

LIBRARY
OF THE
UNIVERSITY
OF ILLINOIS
605
IND
V.13

JOURNALS CANNOT BE RENEWED

ENGINEERING

THE INDUSTRIAL ARTS INDEX

FOURTH TWO-YEAR CUMULATION

[THIRTEENTH ANNUAL VOLUME]

1924–1925

SUBJECT INDEX TO A SELECTED LIST OF ENGINEERING, TRADE AND BUSINESS PERIODICALS, BOOKS AND PAMPHLETS WITH A LIST OF IMPORTANT TECHNICAL SOCIETIES

EDITED BY
MARION E. POTTER, LOUISE D. TEICH
MARIAN I. LORD

NEW YORK
THE H. W. WILSON COMPANY
1926

This volume has been supplied under a contract which provides that it is not to be sold or given away without the permission of the publishers.

PRINTED IN U.S.A.

605
IND
v. 13
cop. 3

Engineering Lib.

LIBRARY
UNIVERSITY OF ILLINOIS
URBANA

PREFACE

THIS volume, the fourth two-year cumulation of the Industrial Arts Index, covers approximately the years 1924 and 1925. It includes all the periodical references and the 3,330 book titles that have appeared in the current numbers of the Index during this period. The number of the periodicals indexed has been increased from 171 in the preceding cumulation, to 210 in the present volume. These additions are for the most part in the field of business and finance. The periodicals that have discontinued since the last cumulation are: World's Markets, Paper, and Wireless Age. Chemical Age (New York) and Color Trade Journal were merged under the title Chemicals in May, 1925, and the indexing was continued.

The policy of the Industrial Arts Index has been to index closely a selected list of periodicals rather than to index the leading articles only, in a large number of journals, a policy intended to give the small and average-size library the best returns possible on their investment as subscribers.

The members of the diligent staff who have been working faithfully on this publication thru the two-year period are Elsie Schonholtz, Eleanor Whaley and Florence Plimpton. Miss Catherine Murdoch, a later addition to the staff, should also receive grateful acknowledgement for her help in the final compilation.

M. E. P.

601855

ALTGELD HALL
Lst-West

Technical Societies

The following list is compiled by Marian Lord of the Index staff from notices found in the periodicals indexed in the Industrial Arts Index for 1925.

Advertising affiliation
Sec.-Treas. Arthur P. Kelly, Rochester, N.Y.

Advisory board on highway research
See The National research council

Aerial league of America
Sec. H. G. Knowles, 280 Madison Ave., New York

Aerial league of the world
Sec. 280 Madison Ave., New York

Aero club of America
This organization, together with the National air association, has been amalgamated into the National aeronautic association of the United States of America

Aeronautical chamber of commerce of America, inc.
Sec. W. C. Young, Goodyear Tire and Rubber Co., Akron, O.
This organization partly succeeds the Manufacturers' aircraft association in that it will collect and disseminate information regarding aeronautical activities, and will publish the Aircraft Year Book

Aeronautical society of America
Amalgamated with the Society of automotive engineers

Agricultural publishers association
Sec. W. C. Allen, Editor Dakota Farmer, Aberdeen, S. Dak.

Alloys research association
Chairman, Bd. of Managers, Alfred D. Flinn, Engineering Foundation, 29 W. 39th St., New York

American acceptance council
Sec. Robert H. Bean, 120 Broadway, New York

American asphalt association
Sec. 110 E. 42d St., New York

American association for labor legislation
Sec. Dr. John B. Andrews, 131 E. 23rd St., New York

American association for the advancement of science
Sec. Dr. Burton E. Livingston, Johns Hopkins University, Baltimore

American association of advertising agencies
Sec. 247 Park Ave., New York

American association of engineers
Sec. (Acting sec.) Miss M. E. McIver, 63 E. Adams St., Chicago

American association of ice and refrigeration
Exec.-Sec. Ralph C. Stokell, 160 N. La Salle St., Chicago

American association of industrial physicians and surgeons
Sec.-Treas. Dr. A. W. Colcord, Carnegie Steel Co., Pittsburgh

American association of museums
Sec. Charles Wissler, American Museum of Natural History, Columbus Ave. and 77th St., New York

American association of oil burner manufacturers
Now the American oil burner association

American association of operating engineers
Sec. H. C. Bristol, 501 Maury St., Alaco, Tenn.
Organization of southern electric light and power plant engineers

American association of petroleum geologists
Sec.-Treas Charles E. Decker, Norman, Okla.

American association of port authorities
Sec. Tiley S. McChesney, Court Bldg., New Orleans

American association of refrigeration
Now the American association of ice and refrigeration

American association of state highway officials
Sec. Louis D. Blauvelt, State Highway Engineer, Denver, Colo.

American association of textile chemists and colorists
Sec. Walter E. Hadley, 5 Mountain Ave., Maplewood, N.J.

American association of woolen and worsted manufacturers
Sec.-Treas. J. J. Nevins, 45 E. 17th St., New York

American automobile association
Sec. Charles C. Janes, Mills Bldg., 1709 G St., N.W., Washington, D.C.
This society is a consolidation of the American automobile association and the National motorists association

American bankers' association
Sec. Wm. G. Fitzwilson, 110 E. 42d St., New York

American boiler manufacturers' association
Sec.-Treas. H. N. Covell, 7 E. 19th St., Brooklyn, N.Y.

American bureau of metal statistics
Director, Dr. W. R. Ingalls, 115 Broadway, New York

American ceramic society
Sec. Ross C. Purdy, Lord Hall, Ohio State University, Columbus, O.

American chamber of economics, inc.
Sec. 55 Fifth Ave., New York

American chemical society
Sec. Charles L. Parsons, Mills Bldg., 1709 G St., N.W., Washington, D.C.

American concrete institute
Sec. Harvey Whipple, 1807 E. Grand Boulevard, Detroit

American construction council
Exec. Sec. Dwight L. Hoopingarner, 28 W. 44th St., New York
Aim is to correlate the efforts of the existing organizations, including architects, contractors, labor, manufacturers, and public utilities, state, and federal officers, for the betterment of the industry

American cotton manufacturers' association
Sec.-Treas. Winton D. Adams, 701 Commercial Bldg., Charlotte, N.C.

American drug manufacturers' association
Sec. Carson P. Frailey, Albee Bldg., 1426 G St., N.W., Washington, D.C.

American economic association
Sec.-Treas. Frederick S. Deibler, Northwestern University, Evanston, Ill.

American electric railway accountants' association
Sec.-Treas. J. W. Welsh, 292 Madison Ave., New York

American electric railway association
Sec. J. W. Welsh, 292 Madison Ave., New York

American electrochemical society
Sec. Colin G. Fink, 101 Park Ave., New York

American electro-platers' society
Sec.-Treas. Robert Steuernagel, 1508 Concordia Ave., Milwaukee, Wis.
Branch societies with names and addresses of secretaries and notices of meetings are published each month in the Brass World

American engineering council (formerly the Federated American engineering societies)
Sec. Lawrence W. Wallace, McLachlan Bldg., Washington, D.C.

American engineering standards committee
Sec. Dr. P. G. Agnew, 29 W. 39th St., New York

American face brick association
Sec. R. D. T. Hollowell, 1754 People's Life Bldg., 130 N. Wells St., Chicago

American federation of arts
Sec. Miss Leila Mechlin, 1741 New York Ave., N.W., Washington, D.C.

American foundrymen's association
Sec.-Treas. C. E. Hoyt, Marquette Bldg., Chicago

American gas association, inc.
Sec.-Man. Alexander Forward, 342 Madison Ave., New York

American gear manufacturers' association
Sec. T. W. Owen, 2443 Prospect Ave., Cleveland

American gold and silver institute
Dir. H. N. Lawrie, Munsey Bldg., Washington, D. C.
Institute will engage in statistical research and economic surveys in connection with transportation and taxation as well as assisting gold and silver producers

American hardware manufacturers' association
Sec. F. D. Mitchell, 1819 Broadway, New York

American institute of accountants
Sec. A. P. Richardson, 135 Cedar St., New York

American institute of architects
Exec.-Sec. Edward C. Kemper, Octagon House, 1741 New York Ave., N.W., Washington, D.C.

American institute of banking
Sec. Richard W. Hill, 110 E. 42d St., New York

American institute of chemical engineers
Sec. John C. Olsen, Brooklyn Polytechnic Institute, 85 Livingston St., Brooklyn, N.Y.

American institute of chemists (formerly American institute of chemistry)
Sec. L. R. Seidell, 80 Washington St., New York

American institute of consulting engineers, inc.
Sec. Philip W. Henry, 111 Broadway, New York

American institute of electrical engineers
Sec. F. L. Hutchinson, 33 W. 39th St., New York

American institute of fertilizer chemists
Sec.-Treas. W. J. Gascoyne, jr., 27 S. Gay St., Baltimore, Md.

American institute of metals
Now a division of the American institute of mining and metallurgical engineers

American institute of mining and metallurgical engineers
Sec. H. Foster Bain, 29 W. 39th St., New York

American institute of steel construction (formerly National steel fabricators' association)
Exec.-Director. Charles F. Abbott, 350 Madison Ave., New York

American institute of weights and measures
Sec. C. C. Stutz, 115 Broadway, New York

American iron and steel institute
Asst. Sec. E. A. S. Clarke, 40 Rector St., New York

American iron, steel and heavy hardware association
Sec. A. H. Chamberlain, Marbridge Bldg., Broadway and 34th St., New York

American leather chemists' association
Sec. H. C. Reed, 22 E. 16th St., New York

American malleable castings association
Sec.-Treas. Robert E. Belt, 1900 Euclid Ave., Cleveland

American management association
Managing Dir. W. J. Donald, 20 Vesey St., New York
This society is an amalgamation of the National personnel association, the National association of corporation training, the Industrial relations association of America, and the National association of sales managers

American manufacturers' association
Sec. 2 Rector St., New York

American manufacturers' export association
Sec. Osbert C. Roach, 160 Broadway, New York

American marine association (formerly the Marine equipment association of America)
Sec. 15 Park Row, New York

American marine exposition
Director. Peter A. Sensenrg, 15 Park Row, New York

American mathematical society
Sec. R. G. D. Richardson, Brown University, Providence, R.I.

American merchant marine library association
Sec. Harrison W. Craver, 82 Beaver St., New York

American metric association
See the Metric association

American mining congress
Sec. James F. Callbreath, Munsey Bldg., Washington, D.C.

American national retail jewelers' association
Sec. A. W. Anderson, 106 E. Wisconsin Ave., Neenah, Wis.

American newspaper publishers association
Sec. George M. Rogers, c/o Cleveland Plain-Dealer, Cleveland

American oil burner association (formerly American association of oil burner manufacturers)
Sec.-Treas. Leod C. Becker, Galesburg, Ill.

American oil chemists' society (formerly Society of cotton products analysts)
Sec.-Treas. J. C. P. Helm, New Orleans, La.

American oil men's association
Sec. H. G. James, 624 S. Michigan Ave., Chicago

American order of steam and electrical engineers
Corresponding engineer. William S. Wetzler, 753 N. 44th St., Philadelphia

American paper and pulp association
Sec.-Treas. Dr. Hugh P. Baker, 18 E. 41st St., New York

American peat society
Sec. Charles Knap, 2 Rector St., New York

American petroleum institute
Sec. R. L. Welch, 250 Park Ave., New York

American pharmaceutical association
Sec. William B. Day, 701 S. Wood St., Chicago

American pharmaceutical manufacturers' association
Sec. Carroll Dunham Smith, Smith Pharmacal Co., 323 E. 34th St., New York

American photoengravers' association
Sec.-Treas. Oscar F. Kwett, Canton, Ohio

American physical society
Sec. H. W. Webb, Columbia University, New York

American pig iron association
Sec. John Penton, 1213 W. Third St., Cleveland

American public health association
Sec. Homer N. Calver, 370 Seventh Ave., New York

American radio relay league, inc.
Sec. K. B. Warner, 1711 Park St., Hartford, Conn.

American railway association
Sec. H. J. Forster, 30 Vesey St., New York
A complete list of the various divisions and sections of the American railway association, and also of all the other important railway associations, with convention dates and secretaries, is to be found in the first number of each month of the Railway Age

American railway bridge and building association
Sec.-Treas. C. A. Lichty, C. & N.W. Railway, 319 N. Waller Ave., Chicago

American railway development association
Sec.-Treas. A. L. Moorshead, c/o Erie Railroad, New York

American railway engineering association
Sec. E. H. Fritch, 431 S. Dearborn St., Chicago

American railway tool foremen's association
Sec. G. G. Macina, C. M. & St. P. Railway, Chicago

American refractories institute
Sec. (Acting sec.) M. C. Booze, 2202 Oliver Bldg., Pittsburgh, Pa.

American road builders association
Sec. Ethel A. Birchland, 37 W. 39th St., New York

American short line railroad association
Sec. T. F. Whittelsey, Union Trust Bldg., Washington, D.C.

American silver producers' association
Sec.-Treas. Henry M. Rives, Reno, Nevada

American society for municipal improvements
Sec. C. W. S. Sammelman, 3817 Olive St., St. Louis, Mo.

American society for steel treating (formerly American steel treaters' society)
Sec. W. H. Eisenman, 4600 Prospect Ave., Cleveland

American society for testing materials
Sec.-Treas. C. L. Warwick, 1315 Spruce St., Philadelphia

American society of agricultural engineers
Sec. Raymond Olney, St. Joseph, Mich.

American society of civil engineers
Sec. George T. Seabury, United Engineering Societies Bldg., 33 W. 39th St., New York

American society of heating and ventilating engineers
Sec. F. C. Houghten, 29 W. 39th St., New York

American society of marine designers (formerly American society of marine draftsmen)
Sec. B. G. Barnes, 202 Kendrick Ave., Quincy, Mass.

American society of mechanical engineers
Sec. Calvin W. Rice, 29 W. 39th St., New York

American society of naval engineers
Sec.-Treas. Commander Bryson Bruce, Bureau of Engineering, Navy Dept., Washington, D.C.

American society of refrigerating engineers
Sec. William H. Ross, 35 Warren St., New York

American society of safety engineers
This society has combined with the Engineering section of the National safety council and is now known as the American society of safety engineers, the Engineering section of the National safety council

American society of sales executives
Sec. 90 West St., New York

American society of sanitary engineering
Sec. James R. Walker, City Hall, Waterbury, Conn.

American specification institute
Sec. 160 N. LaSalle St., Chicago

American statistical association, inc.
Sec.-Treas. Willford I. King, 474 W. 24th St., New York

American steel treaters' society
Now the American society for steel treating

American supply and machinery manufacturers' association
Sec.-Treas. Frederick D. Mitchell, 4106 Woolworth Bldg., New York

American trade executives association
Now the National association of trade association executives

American valuation association
Sec. Stanley Williamson, Linde Air Products Co., 30 E. 42d St., New York

American warehousemen's association
Sec. Charles L. Criss, May Bldg., 5th and Liberty Aves., Pittsburgh, Pa.

American water works association
Sec. Beekman C. Little, 43 City Hall, Rochester, N.Y.

American welding society
Sec. Miss M. M. Kelly, 33 W. 39th St., New York

American wood preservers' association
Sec.-Treas. P. R. Hicks, Room 1146, Otis Bldg., Chicago

American zinc institute, inc.
Sec. Stephen S. Tuthill, 27 Cedar St., New York

Army ordnance association
Sec. Mills Bldg., 1709 G St., N.W., Washington, D.C.

Asphalt association
Sec. J. E. Pennybacker, 441 Lexington Ave., New York

Associated advertising clubs of the world
Sec.-Treas. Jesse H. Neal, 220 W. 42d St., New York

Associated business papers, inc.
Sec. Jesse H. Neal, 220 W. 42d St., New York

Associated general contractors of America
Sec. D. H. Sawyer, 1038 Munsey Bldg., Washington, D.C.

Associated machine tool dealers
Sec. Tyler Carlisle, c/o Strong, Carlisle & Hammond Co., 1394 W. 3d St., Cleveland

Associated manufacturers of electrical supplies
Sec. Frederick Nicholas, 30 E. 42d St., New York

Associated metal lath manufacturers
Commissioner. Wharton Clay, 123 W. Madison St., Chicago

Association of arts and industries
Sec. Norma K. Stahle, 230 E. Ohio St., Chicago

Association of chemical equipment manufacturers (formerly Chemical equipment association)
Sec. Roberts Everett, 1328 Broadway, New York

Association of Chinese and American engineers
Sec. P. Y. Tsai, c/o The Chuchow-Chinchow Railway, Peking

Association of collegiate schools of architecture
Sec. Clarence A. Martin, Cornell University, Ithaca, N.Y.

Association of Edison illuminating companies
Sec. Preston S. Millar, Electrical Testing Laboratories, East End Ave. and 80th St., New York

Association of electragists international
Sec. Lawrence W. Davis, 15 W. 37th St., New York
Formerly known as the National Association of electrical contractors and dealers, and as the International association of electragists

Association of governmental labor officials of the United States and Canada
Now the International association of governmental labor officials of the United States and Canada

Association of iron and steel electrical engineers
Sec. F. W. Cramer, Bethlehem Steel Corporation, Johnston, Pa.

Association of national advertisers, inc.
Sec.-Treas. Robert K. Leavitt, 7 W. 46th St., New York

Association of natural gasoline manufacturers
Pres. D. E. Buchanan, Chestnut and Smith Corp., Tulsa, Okla.

Association of official agricultural chemists
Sec.-Treas. W. W. Skinner, Bureau of Chemistry, Washington, D.C.

Association of railway electrical engineers
Sec.-Treas. Joseph A. Andreucetti, Room 413, C. & N. W. Terminal Station, Chicago

Association of railway executives
Chairman. Stanley J. Strong, Transportation Bldg., 17th & H Sts., N.W., Washington, D.C.

Association of scientific apparatus makers of the United States of America
Sec. J. M. Roberts, 460 E. Ohio St., Chicago

Atlantic deeper waterways association
Sec. Widener Bldg., Broad and Chestnut Sts., Philadelphia

Auto bus association of New York state
Now the New York state transportation association, inc.

Automobile body builders' association
Sec. F. D. Mitchell, 1819 Broadway, New York

Automotive associations
A list of automobile shows, foreign as well as American, and of conventions and meetings is published each week in Automotive Industries

Automotive equipment association
Sec. William M. Webster, 18th floor, City Hall Square Bldg., 139 N. Clark St., Chicago

Automotive manufacturers' association, inc.
Sec. W. E. Green, 2204 S. Michigan Blvd., Chicago

Aviation clubs
A list of aviation clubs is published from time to time in Aviation

Bankers' association for foreign trade
Sec. F. B. Tedford, Union Trust Co., Chicago

Boston society of civil engineers
Sec. John B. Babcock, 715 Tremont Temple, Boston

British iron and steel institute
Sec. George C. Lloyd, 28 Victoria St., London, S.W.1

Building officials' conference
Sec. J. F. Downey, Building Commissioner, Cambridge, Mass.

California motor carriers' association
Sec. James G. Blaine, 1290 Bush St., San Francisco

Canadian association of stationary engineers
Sec. Miss Violet Pearce, 139 Essex St., Toronto, Ont.

Canadian deep waterways and power association
Sec.-Treas. Major Alex. Lewis, Toronto, Ont.

Canadian electric railway association
Sec. Eustace Smith, jr., Toronto Transportation Commission, Toronto

Canadian electrical association
Sec. Louis Kon, 311 Power Bldg., Montreal, Que.

Canadian engineering standards association
Sec. H. H. Vaughan, 522 Jackson Bldg., Ottawa, Ont.

Canadian gas association
Sec.-Treas. George W. Allen, 7 Astley Ave., Toronto, Ont.

Canadian good roads association
Sec.-Treas. George A. McNamee, 909 New Birks Bldg., Montreal, Que.

Canadian institute of chemistry
Sec. L. E. Westman, 57 Queen St., West, Toronto, Ont.

Canadian institute of mining and metallurgy
Sec.-Treas. G. C. Mackenzie, Montreal, Que.

Canadian national clay products association
Sec.-Treas. Gordon Keith, 435 Grace St., Toronto

Canadian society of civil engineers
Now the Engineering institute of Canada

Carnegie institute of economics
Sec. 26 Jackson Place, N.W., Washington, D.C.

Chamber of commerce of the United States of America
Sec. D. A. Skinner, Chamber of Commerce Bldg., Washington, D.C.

Chemical equipment association
Now the Association of chemical equipment manufacturers

Chemical foundation, inc.
Sec. 85 Beaver St., New York

China society of America
American headquarters, 19 W. 44th St., New York

City managers' association
Now the International city managers' association

City planning institute
Sec. Flavel Shurtleff, 130 E. 22d St., New York

Clay products institute
Sec. J. S. Sleeper, 111 W. Washington St., Chicago

Clearwater timber protective association
Sec.-Treas. Theodore Fohl, Orafino, Idaho

Coal mining institute of America
Sec.-Treas. H. D. Mason, jr., P.O.Box 604, Ebensburg, Pa.

Commercial associations
A list of various commercial associations is published each month in Nation's Business

Common brick manufacturers' association of America
Sec. Ralph P. Stoddard, Cleveland Discount Bldg., Cleveland

Compressed air society
Sec. C. H. Rohrbach, 90 West St., New York

Compressed gas manufacturers' association
Sec. 120 W. 42d St., New York

Concrete products association
Sec. Bert Carey, 111 W. Washington St., Chicago

Conference of state sanitary engineers
Sec.-Treas. A. P. Miller, U.S. Public Health Service, Washington, D.C.

Conference on highway engineering and highway transport education
Sec. Walter C. John, 127 Kentucky Ave., S.E., Washington, D.C.

Cooperative league of the United States of America
Sec. 167 W. 12th St., New York

Cooperative society of America
Sec. 130 N. Wells St., Chicago

Copper and brass research association
Sec. George A. Sloan, 25 Broadway, New York

Cost association of the paper industry
Sec. T. J. Burke, 18 E. 41st St., New York

Custer battlefield highway association
Sec. W. D. Fisher, Sheridan, Wyoming

Direct mail advertising association
Sec. Frank L. Pierce, 431 Howard St., Detroit

Dixie highway association
Sec. Miss M. B. Roberts, 302 First National Bank Bldg., Chattanooga, Tenn.

Drop forge supply association
Sec. 300 Chestnut St., Philadelphia

Eastern railroad association
Sec. E. N. Bessling, 614 F St., N.W., Washington, D.C.

Electric associations
A complete directory of electrical associations with convention dates and secretaries is published in the first issue of each volume of the Electrical World in January and July

Electric power club
Sec. J. M. Barr, c/o Louis Allis Co., 30 Church St., New York

Electric steel founders' research group
Director. R. A. Bull, 639 Diversey Parkway, Chicago

Electrical manufacturers' club
Sec. Walter F. Field, Safety Insulated Wire and Cable Co., 114 Liberty St., New York

Electrical manufacturers' council
Sec. Frederick Nicholas, 30 E. 42d. St., New York

Electrical safety conference
Sec. R B. Shepard, 109 Leonard St., New York

Electrical supply jobbers' association
Sec. Franklin Overbaugh, 411 S. Clinton St., Chicago

Employing printers' association of America
Sec. J. M. Vollmer, 1205 Monadnock Bldg., Chicago

Engineering advertisers' association
Sec. N. C. Tompkins, c/o Creamery Package Manufacturing Co., 61 W. Kinze St., Chicago

Engineering foundation
Sec. Alfred D. Flinn, 29 W. 39th St., New York

Engineering institute of Canada (formerly Canadian society of civil engineers)
Sec. Richard John Durley, 522 Jackson Bldg., Ottawa

Engineering society of western Pennsylvania
Sec. Kenneth F. Treschow, 568 Union Arcade Bldg., Pittsburgh, Pa.

Engineers' club of Philadelphia
Sec. 1317 Spruce St., Philadelphia

Eye sight conservation council of America, inc.
Director. Guy A. Henry, Times Bldg., New York

Federated American engineering societies
Now the American engineering council

Federated engineers' development corporation
Sec. 115 Broadway, New York

Financial advertisers' association
Sec. 231 S. LaSalle St., Chicago

Franklin institute
Sec. Howard McClenahan. Franklin Institute, 15 S. 7th St., Philadelphia

Gas associations
A list of the principal gas associations, with officers and place and date of annual meeting, is published occasionally in the Gas Age

Gas products association
Sec. Charles T. Allen, 140 S. Dearborn St., Chicago

Geological society of America
Sec. Charles P. Berkey, Columbia University, New York

Great Lakes protective association
Sec. George A. Marr, Rockefeller Bldg., Cleveland, O.

Heating and piping contractors' national association
Sec. Henry B. Gombers, 50 Union Square, New York

Highway industries exhibitors' association
Sec. Frederick G. Hudson, 626 Union Trust Bldg., 7 S. Dearborn St., Chicago

Hollow building tile association
Sec. J. S. Sleeper, 111 W. Washington St., Chicago

Hydraulic society
Sec. C. H. Rohrbach, 90 West St., New York

Ice and refrigeration societies
Notices of national and state associations are published each month in Refrigerating World

Illuminating engineering society
Sec. L. H. Graves, 31 W. 46th St., New York

Industrial cost association
Sec. c/o General Electric Co., West Lynn, Mass.

Industrial gas association of New England
Sec.-Treas. R. J. Phelan, Worcester, Mass. Light Co., Cambridge, Mass.

Industrial relations association of America (formerly National association of employment managers)
The work of this association has been taken over by the American management association

Institute for government research
Sec. 26 Jackson Place, Washington, D.C.
An association of citizens for cooperating with public officials in the scientific study of government

Institute of American meat packers
Sec. 509 S. Wabash Ave., Chicago

Institute of economics
Pres. Robert S. Brookings, 26 Jackson Place, N.W., Washington, D.C.

Institute of paint and varnish research
Sec. G. B. Heckel, 509 The Bourse, Philadelphia

Institute of radio engineers
Sec. A. N. Goldsmith, College of the City of New York, New York

International amateur radio union
Sec. K. B. Warner, 1711 Park St., Hartford, Conn.

International association of electragists
Now the Association of electragists international

International association of governmental labor officials of the United States and Canada
Sec.-Treas. Louise Schutz, Industrial Commission, 612 Bremer Arcade, St. Paul, Minn.

International association of master house painters
Sec. A. H. McGhan, 1515 11th St., N.W., Washington, D.C.

International association of municipal electricians
Sec. E. H. Benz, West New York, N.J.

International association of printing house craftsmen
Sec. Louis M. Augustine, 38 White Ave., Hamilton, Md.

International association of street sanitation officials
Sec. A. M. Anderson, 10 S. La Salle St., Chicago

International bureau of weights and measures
Director. Charles E. Guillaume, St. Cloud, Seine-et-Oise, France

International chamber of commerce
Sec. Dr. Edward Dolleans (temporary sec.) University of Dijon, Dijon, France
Sec., American section, Lacey C. Zapf, Chamber of Commerce Bldg., Washington, D.C.

International city managers' association
Sec. John G. Stutz, Lawrence, Kansas

International commission on illumination
Asst. Sec. J. W. T. Walsh, National Physical Laboratory, Teddington, Eng.
Pres. National committee, Clayton H. Sharp, 80th St. and East End Ave., New York
Meetings are held every three years
Meeting, United States, '27

International conference on large high tension electric systems
Sec.-General. J. Tribot Laspière, 25 Boulevard Malesherbes, Paris

International congress of architects
Sec. of the American section, George Oakley Totten, jr., 808 17th St., N.W., Washington, D.C.

International congress of master printers
Sec. Bruno Zachrisson, Gothenburg, Sweden

International electrochemical commission
General Sec. C. le Maistre, 28 Victoria St., Westminster, London, S.W.
International body representing national electrical societies contributing to its support

International garden cities and town planning association
City and regional congress together with the National conference on city planning, New York, April 20-25, '25

International institute of refrigeration
Sec. J. Raymond, Weavers' Hall, 22 Basinghall St., London, E.C.2

International mining convention
Exec.-Chairman. Henry M. Parks, Director, Oregon Bureau of Mines and Geology, Oregon Bldg., Portland, Ore.

International railway congress association
Sec. L. Weissenbruch, 11 Rue de Louvain, Brussels, Belgium

International railway fuel association
Sec. J. B. Hutchison, 6000 Michigan Ave., Chicago

International street and interurban railway association (Central Europe)
Sec. Dr. Arthur Ertel, Favoritenstrasse 9, Vienna

International tramway, light railway and bus association
Sec. 15 Avenue de la Toison d'Or, Brussels

International typographical union
Sec. J. W. Hays, 640-50 Newton Claypool Bldg., Indianapolis

International union of pure and applied chemistry
Sec. American delegation, Edward W. Washburn, University of Illinois, Urbana, Ill.
Meeting, United States, 1926

International union of steam and operating engineers
Sec. 6334 Yale Ave., Chicago

Inventors' league of the United States
Sec. George W. Whigelt, 114 Maiden Lane, New York

Investment bankers' association of America
Sec. Frederick R. Fenton, 38 S. Dearborn St., Chicago

Iron and steel exposition
Chairman, John F. Kelly, 706 Empire Bldg., Pittsburgh, Pa.

Lake carriers' association
Sec.-Treas. George A. Marr, Rockefeller Bldg., Cleveland, O.

League of the Southwest
Sec. F. E. Weymouth, U.S. Reclamation Service, Denver, Colo.
An organization for studying the problems connected with the development of the Colorado river

Linseed oil association
Sec. George Fortmyer, National Lead Co., 111 Broadway, New York

Manufacturers' aircraft association
Sec. Chance M. Vought, c/o Lewis and Vought Corporation, Long Island City, N.Y.
The collecting and disseminating of information regarding aeronautical activities and the publishing of the Aircraft Year Book, formerly duties of this association, have been taken over by the Aeronautical chamber of commerce of America. The Manufacturers' aircraft association will continue to handle the administration of the cross license agreements covering airplane patents

Manufacturing chemists' association of the United States
Sec. John L. Tierney, 616 Investment Bldg., 15th and K Sts., N.W., Washington, D.C.

Marine equipment association of America
Now the American marine association

Master boiler makers' association
Sec. H. D. Vought, 26 Cortlandt St., New York

Mathematical association of America
Sec. W. D. Cairns, Oberlin College, Oberlin, Ohio

Metric association
Sec. Howard Richards. jr., 156 Fifth Ave., New York

Midwestern engineering exposition, inc.
General Man. George E. Pfisterer, 53 W. Jackson Blvd., Chicago

Mineralogical society of America
Sec. H. P. Whitlock, American Museum of Natural History, New York

Mining and metallurgical society of America
Sec. Donald M. Liddell, 2 Rector St., New York

Motor bus associations
A list of national and local associations together with the names and addresses of secretaries and dates of conventions is published each month in Bus Transportation

Motor carriers' association of California
Sec. Arthur H. Samish, 340 Flood Bldg., San Francisco

National academy of sciences
Sec. Paul Brockett, 21st and B Sts., N.W., Washington, D.C.

National advertising commission
Sec. Charles F. Hatfield, Commercial Bldg., St. Louis

National advisory committee for aeronautics
Sec. Dr. David W. Taylor, Navy Bldg., 17th and B Sts., N.W. Washington, D.C.

National aeronautic association of the United States of America, inc.
Sec. Donald W. Douglas, 1148 10th St., Santa Monica, Calif.
This association is an amalgamation of the Aero club of America and the National air association

National air association
This association, together with the Aero club of America, has been amalgamated into the National aeronautic association of the United States of America

National association of brass manufacturers
Sec. W. M. Webster, City Hall Square Bldg., Room 1813, Chicago

National association of builders' exchanges
Sec.-Mgr. J. B. Landers, Chamber of Commerce Bldg., Oklahoma City, Okla.

National association of commercial organization secretaries
Sec.-Treas. A. C. Snell, Jacksonville, Fla.

National association of corporation training
The work of this association has been taken over by the American management association

National association of cost accountants
Sec. Stuart C. McLeod, 130 W. 42d St., New York

National association of cotton manufacturers
Sec. 80 Federal St., Boston, Mass.

National association of credit men
Sec.-Treas. J. H. Tregoe, 41 Park Row, New York

National association of electrical contractors and dealers
Now the Association of electragists international

National association of electrical inspectors
Exec.-Sec. T. H. Day, 59 Deerfield Ave., Hartford, Conn.

National association of engine and boat manufacturers, inc.
Sec. Ira Hand, 29 W. 39th St., New York

National association of farm equipment manufacturers
Sec. H. J. Sameit, 608 S. Dearborn St., Chicago

National association of finance companies
Sec. 76 W. Monroe St., Chicago

National association of ice industries
Sec. Leslie C. Smith, 163 W. Washington St., Chicago

National association of leather belting manufacturers of the United States
Sec. George H. Blake, P. O. Box 859, City Hall Station, New York

National association of manufacturers of the United States of America
Sec. George S. Boudinot, 50 Church St., New York

National association of master plumbers
Sec. E. B. Kleine, 329 Ludlow Ave., Cincinnati, O.

National association of music merchants
Sec. 45 W. 45th St., New York

National association of mutual savings banks
Sec. 11 E. 36th St., New York

National association of office managers
Sec. G. S. Childs, Alexander Hamilton Institute, Astor Place, New York

National association of practical refrigerating engineers
Sec. Edward H. Fox, 5707 West Lake St., Chicago

National association of purchasing agents
Sec. W. L. Chandler, 233 Broadway, New York

National association of railroad and utilities commissioners
Sec. James B. Walker, 270 Madison Ave., New York

National association of railroad tie producers
Sec. John S. Penney, 924 Syndicate Trust Bldg., St. Louis

National association of sales managers
Now merged with the American management association

National association of sheet metal contractors
Sec. Edwin L. Seabrook, 608 Chestnut St., Philadelphia

National association of stationary engineers
Sec. Frederick W. Raven, 417 S. Dearborn St., Chicago

National association of trade association executives (formerly American trade executives association)
Exec.-Sec. Miss Margaret R. Rourke, 50 E. 42d St., New York

National automobile chamber of commerce
Gen. Mgr. Alfred Reeves, 366 Madison Ave., New York

National automobile dealers' association
Sec.-Manager. C. A. Vane, 320 N. Grand Ave., St. Louis, Mo.

National automotive parts association
Sec. 611 Capitol Theatre Bldg., Broadway near Witherell St., Detroit

National board of boiler and pressure vessel inspectors
Sec. C. O. Myers, 502 Comstock Bldg., Columbus, O.

National board of fire underwriters
Sec. Sumner Ballard, 80 Maiden Lane, New York

National brick manufacturers' association
Sec. Theo. E. Randall, 211 Hudson St., Indianapolis

National bureau of economic research, Inc.
Sec. Oswald W. Knauth, 474 W. 24th St., New York

National cinder concrete products association
Sec. J. Edwin Rutter, Cameron and Reilly Sts., Harrisburg, Pa.

National civic federation
Chairman. Ralph M. Easley, 1 Madison Ave., New York

National coal association
Exec.-Sec. Harry L. Gandy, Southern Bldg., Washington, D.C.

National concrete stave silo association
Sec. W. G. Kaiser, 111 W. Washington St., Chicago

National conference of business paper editors
Sec.-Treas. A. G. Oehler, c/o Railway Electrical Engineer, 30 Church St., New York

National conference on city planning
Sec. Flavel Shurtleff, 130 E. 22d St., New York

National conference on highway traffic regulations
Sec.-Treas. D. R. Faries, Automobile Club of Southern California, 1344 South Figueroa St., Los Angeles

National conference on pharmaceutical research
Sec.-Treas. J. C. Krantz, jr., Baltimore, Md.

National conference on state parks
Sec. Union Trust Bldg., Washington, D.C.

National container association
Sec.-Treas. B. C. Tamlin, Room 638, Transportation Bldg., Chicago

National cooperative convention
See the Cooperative league of the United States of America

National council of American importers and traders, inc.
Sec. Franklin Van Leer, jr., 45 E. 17th St., New York

National council of lighting fixture manufacturers
Sec. H. E. Garrett, 424 Guarantee Title Bldg., Cleveland

National crushed stone association
Sec. J. R. Boyd, Earle Bldg., Washington, D.C.

National district heating association
Sec. D. L. Gaskill, 112 W. 42d St., Greenville, O.

National drainage congress of America
Sec. C. R. Thomas, 1163 Monadnock Bldg., Chicago

National editorial association
Sec. H. C. Hotaling, Ryan Bldg., 6th and Roberts Sts., St. Paul, Minn.

National electric light association
Exec.-Manager. M. H. Aylesworth, 29 W. 39th St., New York

National electrical credit association
Sec. Frederick P. Vose, 1347 Marquette Bldg., Chicago

National fertilizer association
Exec.-Sec. Charles J. Brand, 616 Investment Bldg., 15th and K Sts., N.W., Washington, D.C.
This is a new association which has been formed by a merger of the old National fertilizer association and the Southern fertilizer association

National fire protective association
Sec. Franklin H. Wentworth, 40 Central St., Boston, Mass.
Sec., Electrical committee, Ralph Sweetland, 141 Milk St., Boston

National foreign trade council
Sec. O. K. Davis, India House, 1 Hanover Sq., New York

National founders' association
Sec. J. M. Taylor, 29 S. LaSalle St., Chicago

National housing association
Sec. Lawrence Veiller, 105 E. 22d St., New York

National implement and vehicle association
Sec. Henry J. Sameit, 608 S. Dearborn St., Chicago

National industrial advertisers' association
Sec. W. S. Hays, National Slate Association, Drexel Bldg., Philadelphia

National industrial conference board
Pres. Magnus W. Alexander, 247 Park Ave., New York

National industrial council
Sec.-Treas. Earl Constantine, 50 Church St., New York

National industrial traffic league
Sec. J. H. Beck, 111 W. Washington St., Chicago

National lime association
Sec. Burton A. Ford, Mather Bldg., 918 G St., N.W., Washington, D.C.

National lumber manufacturers' association
Sec. Wilson Compton, Transportation Bldg., 17th and H Sts., N.W., Washington, D.C.

National machine-tool builders' association
Sec. Ernest F. DuBrul, 81 Provident Bank Bldg., Cincinnati

National merchant marine association
Sec. Munsey Bldg., Washington, D.C.

National metal trades association
Sec. J. E. Nyhan, People's Gas Bldg., Chicago

National motor bus association
Pres. Ralph W. Sanborn, Hippodrome Bldg., Cleveland

National motor transport association
Sec. E. B. Burritt, 250 W. 57th St., New York

National motorists association
Now the American automobile association

National municipal league
Sec. Harold W. Dodds, 261 Broadway, New York

National museum of engineering and industry
Pres. Samuel Insull, 72 W. Adams St., Chicago

National paint, oil and varnish association
Sec. George F. Horgan, 18 E. 41st St., New York

National paper trade association of the United States
Sec. William Ridgeway, 41 Park Row, New York

National paving brick manufacturers' association
Sec. Edward E. Duff, jr., Engineers Bldg., Cleveland

National personnel association
Now the American management association

National petroleum association
Sec. C. D. Chamberlain, 823 Guardian Bldg., Cleveland

National petroleum marketers association
Sec. 624 S. Michigan Blvd., Chicago

National pipe and supplies association
Sec.-Treas. George D. McIlvaine, 908 Oliver Bldg., Pittsburgh

National pressed metal society
Sec.-Treas. D. L. Mathias, Box 65, Pittsburgh

National publishers' association
Sec. F. L. Wurzburg, Nast Publications, 19 W. 44th St., New York

National research council
Dir. Highway research board. Charles M. Upham, 2101 B St., N.W., Washington, D.C.

National rivers and harbors congress
Sec. S. A. Thompson, 824 Colorado Bldg., Washington, D.C.

National safety council
Sec. W. H. Cameron, 160 N. Michigan Ave., Chicago
Sec. Engineering Section—American Society of Safety Engineers. W. Dean Keefer, 168 N. Michigan Ave., Chicago

National sand and gravel association
Sec. T. R. Barrows, 903 Munsey Bldg., Washington, D.C.

National slag association
Sec. Leader News Bldg., Cleveland

National slate association
Sec. W. S. Hays, Drexel Bldg., Philadelphia

National society for vocational education
Sec. Miss Clothilda Ware, 140 W. 42d St., New York

National standard parts association
Sec. 2539 Woodward Ave., Detroit

National steel fabricators' association
Now the American institute of steel construction

National supply and machinery distributors' association (formerly the National supply and machinery dealers' association)
Sec.-Treas. George Fernley, 505 Arch St., Philadelphia

National terra cotta society
Sec. 19 W. 44th St., New York

National tire dealers' association
Sec. 242 W. 56th St., New York

National trade extension bureau
Sec.-Manager. William J. Wooley, Mercantile Bank Bldg., Evansville, Ind.

National transportation institute
Sec. Grand Central Terminal, New York

National varnish manufacturers' association
Sec.-Treas. George B. Heckel, 509 The Bourse, Philadelphia

National warm-air heating and ventilating association
Sec. Allen W. Williams, Columbia Bldg., Columbus, O.

National wholesale druggists' association
Sec. Charles H. Waterbury, 51 Maiden Lane, New York

National wholesale dry goods association
Sec.-Treas. George A. Fernley, 505 Arch St., Philadelphia

National wood chemical association
Sec.-Treas. F. J. Goodfellow. 76 Main St., Bradford, Pa.

Natural gas and petroleum association of Canada
Sec.-Treas. S. A. Morse. 48½ Market Sq., Chatham, Ont.

Natural gas association of America
Sec.-Treas. Guy F. Batchelor, Oliver Bldg., Pittsburgh

New England foundrymen's association
Sec. Fred S. Stockwell, Barbour-Stockwell Co., Cambridge, Mass.

New England road builders' association
Sec. Frederick Hoitt, 68 Devonshire St., Boston

New England waterworks association
Sec. Frank J. Gifford, Supt. Water Works, Dedham, Mass.

New York state motor transportation association, inc.
Pres. Carl W. Stocks, Editor Bus Transportation, 10th Ave. and 36th St., New York
Formerly the Auto bus association of New York state

North Central electric association
Sec. J. W. Lapham, 351 Loeb Arcade, Minneapolis

Optical society of America
Sec. F. K. Richtmyer, Cornell University, Ithaca, N.Y.

Outdoor advertising association of America
Pres. Harry F. O'Mealia, c/o O'Mealia Outdoor Advertising Co., 372 Johnston Ave., Jersey City, N.J.
This association is a merger of the Poster advertising association, inc., and the Painted Outdoor advertising association

Pacific coast gas association
Sec. Clifford Johnstone, 447 Sutter St., San Francisco

Pacific logging congress
Sec.-Treas. George M. Cornwall, Portland, Ore.

Paint manufacturers' association of the United States
Sec.-Treas. George B. Heckel, 509 The Bourse, Philadelphia

Painted outdoor advertising association
This association has now merged with the Poster advertising association, inc., to form the Outdoor advertising association of America

Pan American highway congress
Exec.-Sec. of the American Commission, Pyke Johnson, Transportation Bldg., 17th and H Sts., N.W., Washington, D.C.

Paper trade associations
Report of the annual meetings and lists of officers for the coming year of the various associations connected with the paper trade are to be found in Paper trade journal for February 25, 1926

Periodical publishers' association of America
Sec. 8 W. 40th St., New York

Permanent international association of navigation congresses
Sec. American Section. Major G. R. Young, Munitions Bldg., Washington, D.C.

Personnel research federation
Sec. Alfred D. Flinn, 29 W. 39th St., New York
This society will collect research information and coordinate the research activities of about 250 organizations

Plumbers' associations
A list of the various state associations, with convention dates, will be found in the weekly numbers of Domestic Engineering

Port of New York authority
Sec. William Leary, 11 Broadway, New York

Portland cement association
Gen. Manager. William M. Kinney, 111 W. Washington St., Chicago

Poster advertising association, inc.
This association has now merged with the Painted outdoor advertising association to form the Outdoor advertising association of America

Public utilities advertising association
Sec. Charles W. Person, 820 Electric Bldg., Portland, Ore.

Radio club of America
Sec. 122 Chambers St., New York

Railway and locomotive historical association
Sec. R. W. Carlson, Escanaba, Mich.

Railway associations
A complete list of the various divisions and sections of the American railway association, and also of all the other important railway associations, with convention dates and secretaries, is to be found in the first number of each month of the Railway Age

Railway business association
Sec. Frank B. Noxon, 600 Liberty Bldg., Broad and Chestnut Sts., Philadelphia

Railway development association of the Southeast
Sec. H. S. McLendon, St. Augustine, Fla.

Railway equipment manufacturers' association
Sec. Joseph Sinkler, Pilot Packing Co., People's Gas Bldg., Chicago

Refractories manufacturers' association
Sec. F. W. Donahoe, 840 Oliver Bldg., Pittsburgh

Rice leaders of the world association
Pres. Ellwood Rice, 225 Fifth Ave., New York

Rocky Mountain petroleum association
Sec. 206 Customhouse, Denver, Colo.

Rubber association of America, inc.
Sec. A. L. Viles, 250 W. 57th St., New York

Safety institute of America
Sec. L. V. Coleman, 141 E. 29th St., New York

Sand-lime brick association
Sec. J. Morley Zander, Jackson Church Co., Saginaw, Mich.

Science service, inc.
Director. Edwin E. Slosson, 1115 Connecticut Ave., N.W., Washington, D.C.
An institution, comprised of the National academy of sciences, the American association for the advancement of science, and the National research council "for increasing the intelligence of the people in science by means of the journalistic press"

Silk association of America
Sec. Ramsay Peugnet, 354 Fourth Ave., New York

Smoke prevention association
Sec. Frank A. Chambers, 111 N. Dearborn St., Chicago

Society for electrical development, inc.
Sec.-Treas. J. Smieton, jr., 522 Fifth Ave., New York

Society for the prevention of accidents, inc.
Sec. Charles F. Hammond, 231 W. 69th St., New York

Society for the promotion of engineering education
Sec. Dean F. L. Bishop, University of Pittsburgh, Pittsburgh, Pa.

Society of American military engineers
Sec. Mills Building, Washington, D.C.

Society of automotive engineers
Sec. Coker F. Clarkson, 29 W. 39th St., New York

Society of chemical industry
Sec. American section, Allen Rogers, Pratt Institute, Brooklyn, N.Y.

Society of economic geologists
Sec.-Treas. Sydney H. Ball, 42 Broadway, New York

Society of harbor engineers
Sec. (temp. sec.) J. H. Leonard, 25 Church St., New York

Society of industrial engineers
Sec. George C. Dent, 608 S. Dearborn St., Chicago

Society of naval architects and marine engineers
Sec.-Treas. Daniel H. Cox, 29 W. 39th St., New York

Society of terminal engineers
Sec. Charles H. Newman, 36 Warren St., New York

Southeastern water and light association (formerly Tri-state water and light association)
Sec.-Treas W. F. Stieglitz, Columbia, S.C.

Southern fertilizer association
Now a part of the National fertilizer association

Southern gas association
Sec.-Treas. W. P. Connolly, Charleston, S.C.

Southern metal trades association
Sec. William E. Dunn, jr., Atlanta, Ga.

Southern newspaper publishers' association
Sec.-Treas. W. S. Johnson, Chattanooga News, Chattanooga, Tenn.

Southern pine association
Sec. H. C. Berckes, New Orleans, La.

Southern supply and machinery dealers' association
Sec.-Treas. Alvin M. Smith, Smith-Courtney Co., Richmond, Va.

Southern textile association
Sec.-Treas. F. Gordon Cobb, Lancaster Cotton Mills, Lancaster, S.C.

Southwest waterworks association
Sec.-Treas. R. D. Morgan, Mexia, Texas

Southwestern electrical and gas association
Now the Southwestern public service association

Southwestern public service association (formerly Southwestern electrical and gas association)
Sec. E. N. Willis, 403 Slaughter Bldg., Dallas, Texas

Southwestern society of engineers
Sec. C. E. Barlebaugh, 721 First National Bank Bldg., El Paso, Texas

Stable money association
Sec. 104 Fifth Avenue, New York

State sanitary engineers
See Conference of state sanitary engineers

Stoker manufacturers' association
Sec. William V. McAllister, 2909 Fischer St., Detroit

Synthetic organic chemical manufacturers' association of the United States
Pres. Chas. H. Herty, 1 Madison Ave., New York

Tap and die institute
Sec. Herbert S. Blake, 120 Broadway, New York

Taylor society
Sec. H. S. Person, 29 W. 39th St., New York
To promote the science and art of administration and of management

Technical association of the pulp and paper industry
Sec.-Treas. William C. MacNaughton, 18 E. 41st St., New York

Technical photographic and microscopical society
Sec.-Treas. Alfred B. Hitchins, c/o Ansco Co., Binghamton, N.Y.

Technical publicity association, inc.
Sec.-Treas. W. C. Cash, c/o Ingersoll-Rand Co., 11 Broadway, New York

Telephone pioneers of America
Sec. R. H. Starrett, 195 Broadway, New York

Textile color card association of the United States
Managing director, Miss Margaret H. Rourke, 50 E. 42d St., New York

Textile exhibitors' association
Sec. 31 St. James Ave., Boston

Trailer manufacturing association of America
Sec. 160 W. 87th St., New York

Universal craftsmen council of engineers
Sec. Thomas H. Jones, 33 Linden Ave., Cherrydale, Va.

United engineering society
Sec. Alfred D. Flinn, 29 W. 39th St., New York

United States potters' association
Sec.-Treas. Charles F. Goodwin, East Liverpool, Ohio

United typothetae and Franklin clubs of America
Sec. 600 W. Jackson Blvd., Chicago

Western association of electrical inspectors
Sec. William S. Boyd, 175 W. Jackson Blvd., Chicago

Western ice manufacturers' association
Sec.-Treas. Charles K. Wood, 623 Skukert Bldg., Kansas City, Mo.

Western society of engineers
Sec. Edgar S. Nethercut, 1735 Monadnock Bldg., 53 W. Jackson Blvd., Chicago

List of Periodicals Indexed

Aera. Aera. $2; single numbers 35c. m American Electric Railway Association, Johns-Manville Bldg., 292 Madison Av, New York.

Aeronautical J—See Roy Aeronautical Soc J

Am Arch—The American Architect and the Architectural Review. $6; single numbers 50c. s-m Architectural & Building Press, Inc., 243 W 39th St, New York.

Am Bankers Assn J—American Bankers Association Journal. $3; single numbers 25c. m American Bankers Association, 110 E 42d St, New York.

Am Cer Soc J—American Ceramic Society. Journal. $12; single numbers $1. m American Ceramic Society, 211 Church St, Easton, Pa.

Am Chem Soc J—Journal of the American Chemical Society. $7.50. m Charles L. Parsons, sec., Mills Building, 1709 G St, N.W., Washington, D.C.

Am Concrete Inst Pro—American Concrete Institute. Proceedings. annual American Concrete Institute, 1807 E Grand Blvd, Detroit, Mich.

Am Dyestuff Rep—American Dyestuff Reporter. $5. bi-w Howes Pub. Co., Inc., 90 William St, New York.

Am Electrochem Soc Trans—American Electrochemical Society. Transactions. $3. American Electrochemical Society, Bethlehem, Pa.
Preprints are indexed.

Am Exporter—American Exporter. $4. m Johnston Export Publishing Co., 370 7th Av, New York.
Indexed from January through October, 1924.

Am Gas Assn—American Gas Association. Annual conventions. Proceedings. 5 sections. annual American Gas Association, Inc., 342 Madison Av, New York.

Am Gas J—American Gas Journal. $3; single numbers 10c. w American Gas Light Journal, Inc., Dodge Bldg., 53 Park Pl, New York.
Formerly American Gas Light Journal; American Gas Engineering Journal

Am Ind—American Industries. $1; single numbers 15c. m National Manufacturers Co., 50 Church St, New York.

Am Inst Arch J—Journal of the American Institute of Architects. $5; single numbers 75c. m The Press of the American institute of Architects, Inc., Fisk Bldg., 250 W 57th St, New York.

Am Inst Chem Eng Trans—American Institute of Chemical Engineers. Transactions. annual American institute of Chemical Engineers, Polytechnic Institute, Brooklyn, N.Y.

Am Inst E E J—Journal of the American Institute of Electrical Engineers. $10; single numbers $1. m F. L. Hutchinson, sec., 33 W. 39th St, New York.
Formerly American Institute of Electrical Engineers. Proceedings

Am J Sci—The American Journal of Science. $6; single numbers 50c. m American Journal of Science, Yale University, New Haven, Conn.

Am Mach—American Machinist. $5; single numbers 25c. w McGraw-Hill Co., Inc., 10th Av at 36th St, New York.

Am Management R—American Management Review. $5; single numbers 50c m American Management Association. 20 Vesey St, New York.
Title changed with January 1926 number, to Management Review

Am Pet Inst Bul—American Petroleum Institute Bulletin. irr 250 Park Av, New York.
Bulletins containing proceedings of the annual meeting of the Institute, and occasional weekly numbers are indexed.

Am Soc C E Pro—Proceedings of the American Society of Civil Engineers. $8. m (except Je and Jl) American Society of Civil Engineers, 33 W 39th St, New York.

Am Soc Heat & V E J—Journal of the American Society of Heating and Ventilating Engineers. $3; single numbers 35c. m American Society of Heating and Ventilating Engineers, 29 W 39th St, New York.

Am Soc M E J. See Mech Eng

Am Soc T M Pro—American Society for Testing Materials. Proceedings. annual American Society for Testing Materials, 1315 Spruce St, Philadelphia.

Am Statis Assn J—Journal of the American Statistical Association. $5; single numbers $1.50 q American Statistical Association, Columbia Univ., New York.

Am Water Works Assn J—Journal of the American Water Works Association. $7. m American Water Works Assn., Mount Royal and Guilford Avenues, Baltimore, Md.

Ann Am Acad—Annals of the American Academy of Political and Social Science. $5. bi-m American Academy of Political and Social Science, 39th St & Woodland Av, Philadelphia.

Annalist—The Annalist. $5; single numbers 10c. w New York Times Co., Times Square, New York.

Arch & Bldg—Architecture and Building. $3; single numbers 30c. m William T. Comstock Co., 23 Warren St, New York.

Arch Forum—Architectural Forum. $6; single numbers 60c. m Rogers and Manson Co., 383 Madison Av, New York.

Arch Rec—Architectural Record. $3; single numbers 35c. m F. W. Dodge Corp., 115-119 W 40th St, New York.

Automobile Eng—The Automobile Engineer. 29s 9d; Canadian subs 27s 7d; single numbers 2s. m Dorset House, Tudor St, London, E.C. 4.

Automotive Ind—Automotive Industries. $3; single numbers 35c. w Chilton Class Journal Co., Chestnut & 56th Sts, Philadelphia.

Aviation—Aviation. $4; single numbers 15c. w Gardner Pub. Co., Inc., 225 4th Av, New York.

Bankers M—Bankers Magazine. $5; single numbers 50c. m Bankers Publishing Co., 71-73 Murray St, New York.

Blast F & Steel Pl—The Blast Furnace and Steel Plant. $2; single numbers 25c. m Andresen Co., Inc., Thaw Bldg., 108 Smithfield St, Pittsburgh, Pa.

Bldg Age—Building Age and National Builder. $2; single numbers 35c. m Building Age Publishing Corporation, 239 W 39th St, New York.

Boston Soc C E J—Journal of the Boston Society of Civil Engineers. $4; single numbers 50c. m (except Jl and Ag) Boston Society of Civil Engineers, 715 Tremont Temple, Boston.

Bradstreet's—Bradstreet's. $5; single numbers 10c. w Bradstreet Co., 346-8 Broadway, New York.

Brass W—Brass World and Platers' Guide. $1; single numbers 15c. m Brass World Pub. Co., 153 Waverly Pl, New York.

Brick & Clay Rec—Brick and Clay Record. $3; single numbers 25c. bi-w Industrial Publications, Inc., 407 S Dearborn St, Chicago.

Burroughs Clearing House—Burroughs Clearing House. m Burroughs Adding Machine Co., Detroit.

Bus Transportation—Bus Transportation. $2; single numbers 25c. m McGraw-Hill Co., Inc., 10th Av at 36th St, New York.

Can Chem & Met—Canadian Chemistry and Metallurgy. $3; single numbers 40c. m Westman Press, Ltd., 57 Queen St, W., Toronto, Canada.

Can Eng—The Canadian Engineer. $3; single numbers 10c. w Monetary Times Printing Co. of Canada, Ltd., 62 Church St, Toronto, Ont.

Cassier's Ind Management—Cassier's Industrial Management. 9s; single numbers 9d. m Louis Cassier Co., Ltd., 34, Bedford St, Strand, London, W.C. 2.
Formerly Industrial management

Chase Econ Bul—Chase Economic Bulletin. irr Chase National Bank, New York.

Chem Age—Chemical Age. $2; single numbers 25c. m McCready Pub. Co., 381 4th Av, New York.
Consolidated with Chemical Color and Oil Record, March 1925, as Chemical Record-Age. Chemical Record-Age consolidated with Color Trade Journal, May 25, 1925, as Chemicals.

Chem Age (Lond)—The Chemical Age. 26s; single numbers 6d. w Benn Brothers, Ltd., 8, Bouverie St, London, E.C. 4.

Chem & Met Eng—Chemical and Metallurgical Engineering. $3; single numbers 35c. m McGraw-Hill Co., Inc., 10th Av at 36th St, New York.

Chem R—Chemical Reviews. $5. ($4 to members of American Chemical Society) q Williams & Wilkins Co., Baltimore, Md.

Chem Rec Age—Chemical Record-Age. $5; single numbers 20c. w Trades Reporting Bureau, Inc., 51 Vesey St, New York.
Consolidated with Color Trade Journal as Chemicals, May 25, 1925.

Chem Soc J—Journal of the Chemical Society. £3. m Gurney and Jackson, 33, Paternoster Row, London, E.C. 4.

Chemicals—Chemicals. $5; single numbers 25c. w Chemicals, 51 Vesey St, New York.
A Dyestuffs edition and a Technical edition are issued monthly. Yearly subscription $3 each.
Consolidation of Chemical Color and Oil Record, Chemical Age and Engineer, and Color Trade Journal.

Chimie & Ind—Chimie & Industrie, single numbers 12 fr. m Société de Chimie Industrielle, 49, rue des Mathurins, Paris, France.

Coal Age—Coal Age. $3; single numbers 20c. w McGraw-Hill Co., Inc., 10th Av at 36th St, New York.

Color Tr J—Color Trade Journal and Textile Chemist. $5; single numbers 50c. m Color Trade Journal, Inc., 103 Park Av, New York.
Consolidated with Chemical Record-Age as Chemicals, May 25, 1925.

Comm & Fin—Commerce and Finance. $5; single numbers 15c. w Theodore H. Price Publishing Corp., 16 Exchange Pl, New York.

Comm & Fin Chr—The Commercial & Financial Chronicle. $10; single numbers 25c. w William B. Dana Co., 138 Front St, New York.

Comm M—Commerce Monthly. m National Bank of Commerce, New York.

Concrete—Concrete. $3; single numbers 30c. m Concrete Pub. Co., 139 N. Clark St, Chicago.
Formerly published as Concrete-Cement Age.

Credit M—Credit Monthly. $3; single numbers 25c. m National Association of Credit Men, 41 Park Row, New York.

Dom Eng—Domestic Engineering. $2; single numbers 10c. w Domestic Engineering Co., 1900 Prairie Av, Chicago.

Dun's Int R—Dun's International Review. $4; single numbers 35c. m R. G. Dun & Co., 290 Broadway, New York.

Dun's R—Dun's Review. $3; single numbers 10c. w R. G. Dun & Co., 290 Broadway, New York.

E T Z. See Elektrotech Zeit

Econ Geol—Economic Geology. $4; single numbers 65c. bi-m Economic Geology Pub. Co., Prince and Lemon Sts, Lancaster, Pa.

Econ J—Economic Journal. 1 Guinea; single numbers 6s. q Royal Economic Society, 9, Adelphi Terrace, London, W.C. 2. (Macmillan & Co., 66 Fifth Av, New York.)

Econ W n s—Economic World. $5; single numbers 25c. w Chronicle Co., Ltd., 128 Water St, New York.

Economist—Economist. £2 18s; colonies £3 1s; single numbers 1s 6d. w Economist, Granville House, Arundel St, Strand, London, W.C. 2

Elec J—The Electric Journal. $2; single numbers 25c. m The Electric Journal, 1205 Keenan Bldg., Pittsburgh, Pa.

Elec R (Lond)—Electrical Review. £2 1s 6d; Canadian subs £1 12s 6d; single numbers 6d. w 4, Ludgate Hill, London, E.C. 4.

Elec Ry J—Electric Railway Journal. $4; single numbers 20c. w McGraw-Hill Co., Inc., 10th Av at 36th St, New York.

Elec W—Electrical World. $5; single numbers 25c. w McGraw-Hill Co., Inc., 10th Av at 36th St, New York.

Electrician—Electrician. 30s; single numbers 6d. w Benn Bros., Ltd., 8 Bouverie St, London, E.C. 4

Elektrotech Zeit—E T Z. Elektrotechnische Zeitschrift, quarterly R. M. $7.50; single numbers R. M. 80 w Julius Springer, W 9, Linkstrasse 23/24, Berlin, Germany.

Eng & Contr—Engineering and Contracting. $4. w Engineering and Contracting Pub. Co., 221 E 20th St, Chicago.
Beginning with October 4, 1924 published as four rotating monthly magazines in the order following: Roads and Streets, Water Works, Railways, and Buildings. $1.50 a year each.
Beginning with April, 1925. Railways section changed to General Contracting. An Equipment number is published four times a year.

Eng & Min J—Engineering and Mining Journal-Press. $5; single numbers 25c. w McGraw-Hill Co., Inc., 10th Av at 36th St, New York.
Engineering and Mining Journal consolidated with Mining and Scientific Press

Eng Educ—Engineering Education. $3; single numbers 50c. m (except Jl and Ag) Dean F. L. Bishop, University of Pittsburgh, Pittsburgh, Pa.
Title changed, September, 1924, to Journal of Engineering Education.

Eng N—Engineering News-Record. $5; single numbers 25c. w McGraw-Hill Co., Inc., 10th Av at 36th St, New York
Engineering News consolidated with Engineering Record beginning April 5, 1917.

Eng Soc W Pa—Proceedings of the Engineers' Society of Western Pennsylvania. $5; single numbers 50c. m (except Ag and S) Engineers' Society of Western Pennsylvania, William Penn Hotel, Pittsburgh, Pa.

Engineer—Engineer. Thick paper ed £3 7s 6d; Canadian subs £3 3s; thin paper ed £3 3s; Canadian subs £2 18s 6d; single numbers 1s 3d. w Engineer, 33, Norfolk St, Strand, London, W.C. 2

Engineering—Engineering. Thick paper ed £3 7s 6d; Canadian subs £3 3s; thin paper ed £3 3s; Canadian subs £2 18s 6d; single numbers 1s 2½d. w Engineering, Ltd., 35 and 36, Bedford St, Strand, London, W.C. 2.

Factory—Factory. $3; single numbers 25c. m A. W. Shaw Co., Cass, Huron and Erie Sts, Chicago; 342 Madison Av, New York.

Fed Res Bul—Federal Reserve Bulletin. $2; single numbers 20c (to non-members). m Federal Reserve Board, Washington, D.C.

Forbes—Forbes. $5; single numbers 25c. s-m B. C. Forbes Publishing Co., 120 Fifth Av, New York.

Foundry—Foundry. $3; single numbers 25c. s-m Penton Pub. Co., Penton Bldg, Cleveland, O.

Gas Age—Gas Age-Record. $3; single numbers 25c. w Robbins Pub. Co., Inc., 9 E 38th St, New York.

Gas J (Lond)—Gas Journal. single numbers 1s. w Walter King, Ltd., 11 Bolt Court, Fleet St, London, E.C. 4.

Gen Elec R—General Electric Review. $3; single numbers 30c. m General Electric Co., Schenectady, N.Y.

Génie Civil—Le Génie Civil. 125 fr; single numbers 2 fr. 50. w M. l'Administrateur-Délégué du "Génie Civil," 6, rue de la Chaussée-d'Antin, Paris (9e), France.

Good Roads—Good Roads. $3; single numbers 30c. m Burton Pub. Co., 53 W Jackson Blvd, Chicago.

Harvard Business R—Harvard Business Review. $5; single numbers $1.25. q A. W. Shaw Co., Cass, Huron & Erie Sts, Chicago.

Heat & Ven—Heating and Ventilating Magazine. $2; single numbers 20c. m Heating & Ventilating Magazine Co., 1123 Broadway, New York.

I B A of A—I.B.A. of A. Bulletin. irr Investment Bankers Association of America, 105 S La Salle St, Chicago.

Ill U Eng Exp Sta Bul—Illinois University Engineering Experiment Station. Bulletin. irr Univ. of Ill., Urbana.

Ill U Eng Exp Sta Circ—Illinois University Engineering Experiment Station. Circular. irr Univ. of Ill., Urbana.

Illum Eng Soc—Transactions of the Illuminating Engineering Society. $7.50; single numbers $1. m (except Je and Ag) Illuminating Engineering Soc., 29 W 39th St, New York.

Illum Engr—Illuminating Engineer. 18s; single numbers 1s 6d. Illuminating Engineering Pub. Co., 32 Victoria St, London, S.W. 1.

Ind & Eng Chem—Industrial and Engineering Chemistry. $7.50; single numbers 75c. m American Chemical Society, Charles L. Parsons, sec., Mills Building, 1709 G St, N.W., Washington, D.C.
Formerly Journal of Industrial and Engineering Chemistry.

Ind Eng—Industrial Engineer. $2; single numbers 25c. m McGraw-Hill Co., Inc., 10th Av at 36th St, New York.
Formerly Electrical Review and Western Electrician; Electrical Review and Industrial Engineer.

Ind Management—Industrial Management. $3; single numbers 35c. m Engineering Magazine Co., 120 W 32d St, New York.

Ind Management (Lond)—Industrial Management. 12s 6d; single numbers 8d. m Louis Cassier Co., Ltd., 34, Bedford St, Strand, London, W.C. 2.
Formerly Engineering and Industrial Management.
Title changed, January 10, 1924 to Cassier's Industrial Management

Index—Index. m New York Trust Company, 100 Broadway, New York.

India Rubber W—India Rubber World. $3; single numbers 35c. m India Rubber Pub. Co., 25 W 45th St, New York.

Inland Ptr—Inland Printer. $4; single numbers 40c. m Inland Printer Co., 632 Sherman St, Chicago.

Inst E E J—Journal of the Institution of Electrical Engineers. single numbers 10s 6d. m E. & F. N. Spon, Ltd., 57 Haymarket, London, S.W. 1.; Spon & Chamberlain, 120 Liberty St, New York.

Inst Pet Tech J—Journal of the Institution of Petroleum Technologists and Record of Transactions. single numbers 7s 6d. bi-m Institution of Petroleum Technologists, Aldine House, Bedford St, Strand, London, W.C. 2.

Int Labour R—International Labour Review. $6; single numbers 60c. m International Labour Office, 7, Route de Pregny, Geneva, Switzerland.

Iron Age—Iron Age. $6; single numbers 25c. w Iron Age Pub. Co., 239 W 39th St, New York.

Iron & Steel Inst J—Journal of the Iron and Steel Institute. annual Iron and Steel Institute, 28, Victoria St, London, S.W. 1.; E. & F. N. Spon, Ltd., 57, Haymarket, London; Spon & Chamberlain, 120 Liberty St, New York.

Iron Tr R—Iron Trade Review. $6; single numbers 25c. w Penton Pub. Co., Penton Bldg., Cleveland, O.

J Account—Journal of Accountancy. $4; single numbers 35c. m Journal of Accountancy, Inc., 135 Cedar St, New York.

J Elec—Journal of Electricity. $2; single numbers 25c. s-m McGraw-Hill Co. of Cal., 883 Mission St, San Francisco, Cal.

J Eng Educ—Journal of Engineering Education. $3; single numbers 50c. m except (Jl and Ag) Dean F. L. Bishop, University of Pittsburgh, Pittsburgh, Pa.
Formerly Engineering Education.

J Fr Inst—Journal of the Franklin Institute. $6; single numbers 60c. m Franklin Institute, Philadelphia.

J Ind & Eng Chem—See Ind & Eng Chem

J Ind Hygiene—The Journal of Industrial Hygiene. $6; single numbers 75c. m Harvard Medical School, 55 Van Dyke St, Boston, Mass.

J Land & Pub Util Econ—Journal of Land and Public Utility Economics. $5; single numbers $1.25 q A. W. Shaw Co., Cass, Huron and Erie Sts, Chicago.

J Phys Chem—[illegible] istry. $10.

Lib J—Library Journal. $5; single numbers 25c. s-m (m, during Jl and Ag) R. R. Bowker Co., 62 W 45th St, New York.
Articles of interest to special libraries are indexed.

Locomotive—Locomotive. 50c; single numbers gratis; recent bound volumes $1. q Hartford Steam Boiler Inspection & Insurance Co., Hartford, Conn.

Mach—Machinery. $3; single numbers 35c. m Industrial Press, 140 Lafayette St, New York.

Management & Adm—Management and Administration in Manufacturing Industries. $5; single numbers 50c. m Management Publishing Corp., 15 E 26th St, New York.

Management R—Management Review. $5; single numbers 50c. m Amercian Management Association, 20 Vesey St, New York.
Formerly American Management Review.

Manuf Rec—Manufacturers Record. $6.50; single numbers 20c. w Manufacturers Record Publishing Co., Manufacturers Record Building. Commerce & Water Sts, Baltimore.

Marine Eng—Marine Engineering and Shipping Age. $3; single numbers 35c. m Simmons-Boardman Pub. Co., 30 Church St, New York.
Formerly International Marine Engineering

Marine R—Marine Review. $3; single numbers 35c. m Penton Pub. Co., Penton Bldg. Cleveland, O.

Mech Eng—Mechanical Engineering, the Journal of the American Society of Mechanical Engineers. $5; single numbers 60c. m American Society of Mechanical Engineers, 29 W 39th St, New York.

Metal Ind—Metal Industry. $1; single numbers 10c. m Metal Industry Pub. Co., 99 John St, New York.

Min Cong J—Mining Congress Journal $3; single numbers 30c. m American Mining Congress, Washington, D.C.

Mo U Sch Mines & Met Bul—Bulletin of the University of Missouri. School of Mines and Metallurgy. irr Univ. of Mo., Rolla.

Mo U Sch Mines & Met Bul tech ser—Bulletin of the University of Missouri, School of Mines and Metallurgy. Technical Series. irr Univ. of Mo., Rolla.

Monthly Labor R—Monthly Labor Review. $1.50; single numbers 15c. m U.S. Bureau of Labor Statistics, Washington, D.C.
Free to labor departments and bureaus and other offices connected with the administration of labor laws.

Moody's Inv Serv—Moody's Investors Service. $80. w John Moody, 35 Nassau St, New York.

Munic & Co Eng—Municipal and County Engineering. $2; single numbers 25c. m Engineering Pub. Co., 702 Wulsin Bldg, Indianapolis, Ind.
Formerly Municipal Engineering.

Munic Eng. See Munic & Co Eng

N E L A Bul—National Electric Light Association Bulletin. $3; single numbers 25c. m National Electric Light Assn., 29 W 39th St, New York.

N E Water Works Assn J—Journal of the New England Water Works Association. $4; single numbers $1.25. q New England Water Works Association, 714 Tremont Temple, Boston.

Nat City Bank—National City Bank of New York. m 55 Wall St, New York.

Nat Pet N—National Petroleum News. $2.50; single numbers 10c. w National Petroleum Pub. Co., 812 Huron Road, Cleveland, O.

Nat Research Council Bul—National Research Council Bulletin. irr National Research Council, 1701 Massachusetts Av, Washington, D.C.

Nat Safety N—National Safety News. $4; single numbers 40c. without bulletins. m National Safety Council, 103 E Ohio St, Chicago.

Nation's Business—The Nation's Business. $3; single numbers 35c. m Chamber of Commerce of the United States, Mills Bldg., Washing-

Nation's Health—The Nation's Health. $3; single numbers 35c. m Modern Hospital Publishing Co., 21 East 40th St, New York.

N Y Pub Lib Bul—New York Public Library. Bulletin. $1; single numbers 10c. m New York Public Library, 476 Fifth Av, New York.
Bibliographies of interest to special libraries are indexed.

Oil Paint & Drug Rep—Oil, Paint and Drug Reporter. $5; single numbers 15c. w Oil, Paint and Drug Reporter, Inc., 12 Gold St, New York.

Paper—Paper. $4; single numbers 10c. w Hughes Pub. Co., 1478 Broadway, New York.
Merged with Paper Trade Journal February 19, 1925.

Paper Tr J—Paper Trade Journal. $4; single numbers 10c. w Lockwood Trade Journal Co., Inc., 10 E 39th St, New York.

Pet Age—Petroleum Age. $2; single numbers 15c. s-m Graffis-Sutton Publishing Co., 28 East Jackson Blvd, Chicago.

Phil Mag—Philosophical Magazine, and Journal of Science. single numbers 4s. 6d. m Taylor and Francis, Red Lion Court, Fleet St, London.

Phys R—The Physical Review. Second Series. $7; single numbers 75c. m American Physical Society, Minneapolis, Minn.

Power—Power. $3; single numbers 15c. w McGraw-Hill Co., Inc., 10th Av at 36th St, New York.

Power Pl Eng—Power Plant Engineering. $2; single numbers 15c. s-m Technical Pub. Co., 537 S Dearborn St, Chicago.

Prof Eng—Professional Engineer. $2; single numbers 20c. m American Association of Engineers, 63 E Adams St, Chicago.

Ptd Salesmanship—Printed Salesmanship. $4; single numbers 40c. m University Press, Cambridge, Mass.

Ptg Art—The Printing Art. $4; single numbers 40c. m The University Press, Cambridge, Mass.
Title changed, May, 1925 to Printed Salesmanship

Ptr Ink—Printers' Ink. $3; single numbers 10c w Printers' Ink Pub. Co., Inc., 185 Madison Av, New York.

Ptr Ink M—Printers' Ink Monthly. $2; single numbers 25c. m Romer Pub. Co., Inc., 185 Madison Av, New York.

Pub Roads—Public Roads. $1; single numbers 10c. m U. S. Department of Agriculture. Bureau of Public Roads, Washington D.C.

Pub Serv Management—Public Service Management. $3; single numbers 25c. m Utilities Publication Co., 431 S Dearborn St, Chicago.

Pub Works—Public Works. $3; single numbers 35c. m Public Works, 243 W 39th St, New York.

R Econ Statis—Review of Economic Statistics. $6 a year (including Weekly Letter Service $100 a year). q Committee on Economic Service, Harvard Univ., Cambridge, Mass.

Radio N—Radio News. $2.50; single numbers 25c. m Experimenter Publishing Co., 53 Park Pl, New York.

Radio Serv Bul—Radio Service Bulletin. 25c; single numbers 5c. m Bureau of Navigation, Department of Commerce, Washington, D.C.

Ref Shelf—The Reference Shelf. irr The H. W. Wilson Co., 958 University Av, New York.

Refrig Eng—Refrigerating Engineering. $5; single numbers 50c. m American Society of Refrigerating Engineers, 35 Warren St, New York.

Refrig W—Refrigerating World. $2; single numbers 20c. m Ice Trade Journal Co., 25 West Broadway, New York.

Roy Aeronautical Soc J—Royal Aëronautical Society Journal. £1 12s 6d; single numbers 2s 9d. m Royal Aëronautical Society, 7, Albemarle St, Piccadilly, London, W. 1
Formerly Aëronautical Journal

Roy Statis Soc J—Journal of the Royal Statistical Society. single numbers 7s 6d. q Royal Statistical Society, 9, Adelphi Terrace, Strand, London, W.C. 2.

Rubber Age—Rubber Age. $2; single numbers 10c. s-m Gardner Pub. Co., Inc., 225 Fourth Av, New York.

Ry Age—Railway Age. $6; single numbers 25c. w Simmons-Boardman Pub. Co., 30 Church St, New York.

Ry Mech Eng—Railway Mechanical Engineer. $3; single numbers 35c. m Simmons-Boardman Pub. Co., 30 Church St, New York.

Ry R—Railway Review. $4; single numbers 25c. w Railway Review, 307 N Michigan Blvd, Chicago; 30 Church St, New York.

Safety Eng—Safety Engineering. $3; single numbers 25c. m Safety Magazine Publishing Corp., 119 Nassau St, New York.

Sales Management—Sales Management. $4; single numbers 20c. bi-w Dartnell Corp., 1801 Leland Av, Chicago.

Sanitary & Heat Eng—Sanitary & Heating Engineering. $2. m Plumbing, Heating and Ventilating Pub. Co., 225-41 W 34th St, New York.

Sci Am—Scientific American. $4; single numbers 35c. m Scientific American Pub. Co., 233 Broadway, New York.

Sheet Metal Worker—Sheet Metal Worker. $3; single numbers 15c. bi-w Edwin A. Scott Pub. Co., Inc., 45 W 45th St, New York.
A Consolidation of Metal Worker, Plumber and Steam Fitter and Sheet Metal.

Sibley J—Sibley Journal of Engineering. $2.50; single numbers 30c. m (except Jl-S) Sibley Journal of Engineering, Inc., Ithaca, N.Y.

Soc Auto Eng J—Society of Automotive Engineers. Journal. $10; single numbers $1. m Society of Automotive Engineers, Inc., 29 W 39th St, New York.

Soc Chem Ind J—Society of Chemical Industry. Journal. £4 4s; single numbers 1s 9d. w Society of Chemical Industry, Central House, 46 & 47, Finsbury Sq, London, E.C. 2

Soc Dyers & Col J—Society of Dyers and Colourists. Journal. 60s; single numbers 5s. m Society of Dyers and Colourists, 30 Pearl Assurance Bldgs, Market St, Bradford, England.

Soc Ing Civils Bul—Mémoires et Compte Rendu des Travaux de la Société des Ingénieurs Civils de France. Bulletin. bi-m Hotel de La Société, 19, rue Blanche, 19 (9e), Paris, France.

Special Lib—Special Libraries. $4; single numbers 50c. m (except Ag and S) Special Libraries Association, 195 Broadway, New York.

Spectator—Spectator. $4; single numbers 25c. w Spectator Co., 135 William St, New York.

Stahl & Eisen—Stahl und Eisen. single numbers M 1.50 w Verlag Stahleisen, b.H., Düsseldorf, Germany. American agent, Paul F. Hermann, 657 Century Bldg., Pittsburgh, Pa.

Stevens Ind—Stevens Indicator. $3; single numbers 50c. bi-m Stevens Institute of Technology, Hoboken, N.J.

Survey of Cur Business—Survey of Current Business (monthly supplement to Commerce Reports). $1.50; single numbers 10c. m Superintendent of Documents, Washington, D.C.

System—System. $4; single numbers 35c. m A. W. Shaw Co., Cass, Huron and Erie Sts, Chicago.

Taylor Soc Bul—Bulletin of the Taylor Society. $3; single numbers 75c. bi-m Taylor Society, 29 W 39th St, New York.

Tech Assn Pa—Technical Association Papers. $3. annual Technical Association of the Pulp and Paper Industry, 18 E 41st St, New York.

Textile Col—Textile Colorist. $5. m Textile Colorist, Inc., 233 Broadway, New York.

Textile Inst J—Textile Institute. Journal. 48s; single numbers 4s. m Textile Institute, 16 St Mary's Parsonage, Manchester, England.

Textile World—Textile World. $4. w Bragdon, Lord & Nagle Co., Inc., 334 4th Av, New York.

U S Agric Bul—United States. Dept. of Agriculture. Bulletin. Distributed free of charge U.S. Dept. of Agriculture. Division of Publications, Washington, D.C.
Selected contributions from the Bureau of Chemistry, Forest Service and Office of Public Roads are indexed.

U S Bur For & Dom Com *—United States. Bureau of Foreign and Domestic Commerce. Special agents series. U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.

U S Bur For & Dom Com misc ser *—United States. Bureau of Foreign and Domestic Commerce. Miscellaneous series. U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.

U S Bur For & Dom Com Trade Information Bul *—U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.

U S Bur Labor Statistics Bul—United States. Bureau of Labor Statistics, Bulletin. Distributed free of charge. U.S. Bureau of Labor Statistics, Washington, D.C.

U S Bur Mines Bul †—United States. Bureau of Mines. Bulletin. U.S. Bureau of Mines, Washington, D.C.

U S Bur Mines Circ †—United States. Bureau of Mines. Miners' Circular. U.S. Bureau of Mines. Washington, D.C.

U S Bur Mines Rep of Invest—United States. Bureau of Mines. Reports of Investigations, Bureau of Mines, Washington, D.C.

U S Bur Mines Tech Pa †—United States. Bureau of Mines. Technical Paper. U.S. Bureau of Mines, Washington, D.C.

U S Bur Stand Circ ‡—United States. Bureau of Standards. Circular. U.S. Bureau of Standards, Washington, D.C.

U S Bur Stand Sci Pa—United States. Bureau of Standards. Scientific Papers. U.S. Bureau of Standards, Washington, D.C.
Per volume paper $1.25; cloth $1.50; foreign subscription, paper $2; cloth $2.10. Single numbers vary in price.

U S Bur Stand Tech Pa ‡—United States. Bureau of Standards. Technologic Papers. U.S. Bureau of Standards, Washington, D.C.

U S Geol S Bul—United States Geological Survey. Bulletin. Distributed free of charge. U.S. Geological Survey, Washington, D.C.

U S Nat Advisory Com for Aeronautics—United States National Advisory Committee for Aeronautics. Washington, D.C.

U S Women's Bur Bul—United States Women's Bureau. Bulletin. U.S. Women's Bureau, Washington, D.C.

Univ J of Business—University Journal of Business. $3; single numbers 75c. q University Journal of Business, Box 10, Faculty Exchange, University of Chicago, Chicago, Ill.

VDI. See Zeit Ver Deutsch Ing

W Soc E J—Journal of the Western Society of Engineers. $3; single numbers 50c. m Western Society of Engineers, 53 W Jackson Blvd, Chicago.

Wireless Age—The Wireless Age. $2.50; single numbers 25c. m Wireless Press, Inc., 326 Broadway, New York.
Discontinued with the July 1925 number.

Wis U Bul Eng S—Bulletin of the University of Wisconsin, Engineering Series. irr Univ. of Wis., Madison

World's Markets—World's Markets. $2.50; single numbers 25c. m R. G. Dun & Co., 290 Broadway, New York.
Discontinued with the May, 1924, number and merged with Dun's International Review.

Zeit Ver Deutsch Ing—VDI. Zeitschrift des Vereines Deutscher Ingenieure R M. 40; single numbers R M. 1.75 w VDI-Verlag, SW 19, Beuthstrasse 7, Berlin, Germany.

* The free distribution of nearly all of the publications of the Bureau of Foreign and Domestic Commerce is confined to the American Consular Service, educational institutions, libraries, trade journals, newspapers, commercial organizations, such as chambers of commerce or manufacturers' association, traffic managers of American railroads and government offices. Others may procure them from the Superintendent of Documents, Government Printing Office, Washington, D.C., or at any of the District or Cooperative offices of the Bureau, at the cost of printing.

† A limited edition of each publication of the Bureau of Mines is printed for free distribution to residents of the United States and its possessions and Canada, Mexico, Panama, and Cuba.

‡ Single copies of the publications of the Bureau of Standards are sent free upon request to specialists concerned with the subjects treated, to those collaborating with the Bureau in its investigations, to organizations exchanging like courtesies with the Bureau, and to designated Government depository libraries. Others may purchase them from the Superintendent of Documents.

Abbreviations of Publishers' Names Used in Book Titles

Am. Acad. of Pol. and Soc. Sci. American Academy of Political and Social Science, Station B, Philadelphia

Appleton. Daniel Appleton & Co., 29-35 W. 32d St., N.Y.; 533 S. Wabash Av., Chicago

Baird. H: C. Baird & Co., 2 W. 45th St., N.Y.

Blakiston. P. Blakiston's Son & Co., 1012 Walnut St., Philadelphia

Bobbs. Bobbs-Merrill Co., 18 University Square, Indianapolis; 185 Madison Av., N.Y.

Brentano's, 5th Av. & 27th St., New York.

Century Co., 353 4th Av., N.Y.

Chemical Catalog Co., Inc., 19 E. 24th St., N.Y.

Chemical Pub. Co., 300 N. 3d St., Easton, Pa.

Crowell. T. Y. Crowell Company, 387-393 4th Av., N.Y.

Dodd. Dodd, Mead & Co., 4th Av., & 30th St., N.Y.

Doran. George H. Doran Co., 244 Madison Av., N.Y.

Doubleday. Doubleday, Page & Co., Garden City, N.Y.

Drake. Frederick J. Drake & Co., 1006 S. Michigan Av., Chicago

Dutton. E. P. Dutton & Co., 681 5th Av., N.Y.

Ginn. Ginn & Co., (Educational text-bks.) 15 Ashburton Place, Boston; 2301-2311 Prairie Av., Chicago; 70 5th Av., N.Y.

Gregg. Gregg Publishing Company, 20 W. 47th St., N.Y.; 623 S. Wabash Av., Chicago

Harcourt. Harcourt, Brace & Co., 383 Madison Av., N.Y.

Harper. Harper & Brothers, 49 E. 33rd St., N.Y.

Heath. D. C. Heath & Co., 50 Beacon St., Boston; 239 W. 39th St., N.Y.; 1815 Prairie Av., Chicago

Henley. Norman W. Henley Pub. Co., Putnam Bldg., 2 W. 45th St., N.Y.

Holt. Henry Holt & Co., 1 Park Av., N.Y.; 2451 Prairie Av., Chicago

Houghton. Houghton, Mifflin Co., 2 Park St., Boston; 16 E. 40th St., N.Y.; 2451-2459 Prairie Av., Chicago; 612 Howard St., San Francisco

Huebsch. B. W. Huebsch, 30 Irving Pl., N.Y.

Knopf. Alfred A. Knopf, 730 5th Av., N.Y.

Lippincott. J. B. Lippincott Co., East Washington Sq., Philadelphia

Longmans. Longmans, Green & Co., 55 5th Av., Cor. 12th St., N.Y.

McGraw-Hill. McGraw-Hill Bk. Co., Inc., 370 7th Av., N.Y.

McKay. David McKay, 604-608 S. Washington Square, Philadelphia

Macmillan. The Macmillan Co., 60 5th Av., N.Y.

Manual Arts Press, 237 N. Monroe St., Peoria, Ill.

National Research Council, 1701 Massachusetts Av., Washington, D.C.

Oxford. Oxford University Press (Clarendon Press) (American branch), 35 W. 32d St., N.Y.

Penton Pub. Co., 1213 W. 3d St., Cleveland, O.; 220 Broadway, N.Y.

Pitman. Sir Isaac Pitman & Sons, 2-6 W. 45th St., N.Y.

Prentice-Hall, Inc., 70 5th Av., N.Y.

Putnam. G. P. Putnam's Sons, Putnam Bldg., 2-6 W. 45th St., N.Y.

Revell. Fleming H. Revell & Co., 158 5th Av., N.Y.; 17 N. Wabash Av., Chicago

Ronald Press. Ronald Press Co., 15 E. 26th St., N.Y.

Routledge. Routledge, G. & Sons, Ltd., Broadway House, 68-74 Carter Lane, Ludgate Hill, E.C. 4

Scribner. Charles Scribner's Sons, 597 5th Av., N.Y.; 320 E. 21st St., Chicago

Shaw. A. W. Shaw Co., Cass, Huron and Erie Sts., Chicago; 342 Madison Av., N.Y.

Simmons-Boardman. Simmons-Boardman Publishing Company, 30 Church St., N.Y.

Spon. E. & F. N. Spon, Ltd., 57 Haymarket, London, S. W. 1; Spon & Chamberlain, 120-122 Liberty St, N.Y.

Stokes. F. A. Stokes Co., 443-449 4th Av., N.Y.

Supt. of Doc. Superintendent of Documents, Government Printing Office, Washington, D.C.

U P C Book Co., Inc., 243 W. 39th St, N.Y. Succeeded by Scientific Bk. Corp., 15 E. 26th St., N.Y.

Univ. of Chicago Press, 5750 Ellis Av., Chicago

Van Nostrand. D. Van Nostrand Co., 8 Warren St., N.Y.

Wiley. John Wiley & Sons, Inc., 432 4th Av., N.Y.

Workers Educ. Bur. Workers Educational Bureau of America, 476 W. 24th St., N.Y.

Industrial Arts Index

A Cumulative Index to Engineering, Trade and Business Periodicals

January, 1924—December, 1925

ABACA
Manila hemp. Comm M 6:21-4 F '25

ABBREVIATIONS
Importance of official state abbreviations in addressing mail. Ptr Ink 126:41-2+ F 7 '24
See also Chemical symbols; Electric symbols; Shipping—Terminology; Symbols

ABERDEEN, Scotland

Rapid transit
Good year for Aberdeen's cars and buses. Elec Ry J 62:878 N 17 '23

Water supply
Water supply of the city of Aberdeen. G. Mitchell. Engineer 139:336 Mr 20 '25; Same. Engineering 119:447 Ag 10 '25; Same. Eng & Contr (W W) 64:391-2 Ag 12 '25

ABERRATION
Electron theory of aberration and Lorentz transformations. D. N. Mallik. Philos Mag 6th ser 48:405-12 S '24

ABERRATION, Chromatic and spherical
Aberrations of long focus anastigmatic photographic objectives. A. H. Bennett. il diags U S Bur Stand Sci Pa 494:587-640 '24

ABIETIC acid
Constitution of colophony. H. M. Bunbury. Chem Age (Lond) 9:650-2, 678-9 D 15-22 '23
Some constituents of French and American rosins. E. Knecht and E. Hibbert. Soc Dyers & Col J 41:329-33 O '25

ABILITY
Industrial psychology of individual differences. D. A. Laird. charts Ind Management 67: 71-7 F '24
Man and the job. W: F. Turnbull. Eng Educ 14:193-6 D '23
See also Efficiency, Industrial; Executives

ABILITY tests
Are psychological tests here to stay? J. R. Glascock. Am Management R 13:6-7 S '24
Constant and variable errors of educational measurements. W. S. Monroe. 30p Univ. of Illinois, Urbana '23
Correlation coefficients between various entrance criteria and scholastic college performance at Iowa state college. E. Kurtz. Eng Educ 14:257-9 Ja '24
Critical study of certain measures of mental ability and school performance. I. M. Neterer. 141p Warwick & York, inc., Baltimore '23
Diagnostic test of aptitude for clerical office work. A. M. Ruggles. 85p Teachers college, Columbia univ., New York '24
Effect of practice on intelligence tests. H. N. Glick. Ill U Bul 27:1-23 '25
Employment tests in the public service. A. S. Faught. Ann Am Acad 113:311-21 My '24
Familial differential fecundity. H. Hart. Am Statis Assn J 20:25-30 Mr '25
Favor mental tests for motor drivers. Automotive Ind 53:198 Jl 30 '25
How psychological tests are used in employing. D. Laird. il Nation's Health 7:235-8+ Ap '25
How we check our employment tests. G. Cowles. System 47:631-2+ My '25
Influence of specialized training on tests of general intelligence. K. B. Graves. 78p Teachers college, Columbia univ., New York '24
Le laboratoire de psychotechnique de la Société des Transports en commun de la région parisienne; contrôle des aptitudes nécessaires aux machinistes. P. Calfas. il Génie Civil 86:53-7 Ja 17 '25; Same (Paris motormen undergo modern psychological tests). Aera 13:1627-35 My '25
Making sport a science; devices and tests which determine the individual fitness of candidates. A. Gradenwitz. il Sci Am 129: 398+ D '23
Methods of testing chauffeurs. H. S. McCauley. il Sci Am 132:28 Ja '25
Modernizing employment methods. A. J. Snow. il Elec Ry J 64:387-9 S 13 '24
Neue beiträge zur theorie und praxis der intelligenzprüfung. W: Stern, ed. 193p J. A. Barth, Leipzig '25
Placing factory workers through psychological tests. W. Berry; M. Pond. Am Management R 14:252-5 Ag '25
Platform men pass civil service tests. Elec Ry J 62:971-4 D 8 '23
Proficiency tests for stenographers. E. J. Benge. Management & Adm 8:615-16 D '24
Psychological tests an economy in employing. D. A. Laird. il Nation's Health 7:77-9+ F '25
Psychological tests for non-office occupations. A. W. Kornhauser. Univ J of Business 2: 173-99 Mr '24
Psychological tests for office occupations. A. W. Kornhauser. Univ J of Business 2:22-51 D '23
Psychological tests in business. A. W. Kornhauser and F. A. Kingsbury. 194p University of Chicago press, Chicago '24
Reduction of automobile accidents by use of psychological tests. A. J. Snow. Soc Auto Eng J 17:163-6 Ag '25
Scientific methods of engaging weavers. W. Spielman. Textile Inst J 16:P317-20 O '25
Scientific selection of taxicab drivers. A. J. Snow. il Nat Safety N 10:5-6+ Jl '24
Selecting the salaried employee. E. J. Benge. Ind Management 69:279-83 My '25
Taxicab owners to continue drivers' tests. Nat Safety N 10:14 D '24
Tests for motormen and bus drivers. L. Bacqueyrisse. il Elec Ry J 64:280-5 Ag 23 '24
Tests for shop and office jobs. B. P. Campbell. il Management & Adm 8:409-12 O '24
University intelligence tests, 1919-1922. 36p Ohio state univ., Columbus '22
What makes employees differ? D. A. Laird. charts Ind Management 67:184-90 Mr '24
What mental tests can do for industry. L. Pruette. Ind Management 70:270-1 N '25
What sort of intelligence does a salesman need? H. S. McCauley. Sales Management 8:19-20 Ja 10 '25
See also College entrance examinations

Bibliography
Bibliography of educational and psychological tests and measurements. M. Doherty and J. MacLatchy. U S Bur Educ Bul 55:1-229 '24

ABRAMS electronic reactions

Our Abrams investigation. Sci Am 129:230, 306-7+, 392+; 130:16-17+, 87, 159+, 240+, 313+, 383+; 131:16+ O '23-Jl '24

Our Abrams investigation. A. C. Lescarboura. Sci Am 131:96+, 158-60+ Ag-S '24

Radio quack. R. I. Smith. il Radio N 5:1739+ Je '24

ABRASION

Factors affecting the resistance of silica refractories to abrasion. F. A. Harvey and E. N. McGee. il Am Cer Soc J 7:895-906 D '24

Surface abrasion as a potential cause of localized corrosion. U. R. Evans. Power 61: 925 Je 9 '25

Tremendous losses caused by abrasion. Sci Am 132:38 Ja '25

ABRASIVES

Aluminous abrasives. Chem Age 32:152 Mr '24

Dust hazard in the abrasive industry. W. I. Clark and E: B. Simmons. bibliog J Ind Hygiene 7:345-51 Ag '25; Excerpts. Iron Age 116:1029 O 15 '25

Finishing with abrasive papers. J: M. Cook. il Iron Tr R 74:613-15 F 28 '24

Grinding dust exhaust system. C. Lynndelle. diag Mach 32:221 N '25

Make abrasives from crushed iron and steel. Foundry 53:162 F 15 '25

Precision lapping. W: E. Hoke. diag Mach 31: 593-6 Ap '25

Relation between abrasiveness and hardness of carbon brushes. W. C. Kalb. Power 62: 293-4 Ag 25 '25

Use of abrasives. S. A. Cochell. Metal Ind 23:107 Mr '25

See also Carborundum; Garnet; Grinding; Grindstones; Metal finishing; Polishing; Sanding machines; Sandpaper

Standards

Standardization of abrasives. H: R. Power. il Mach 31:904-5 Jl '25

ABSENTEEISM (labor)

Absenteeism and tardiness. B. J. Mullaney and P. W. Herring. N E L A Bul 10:726-7 D '23

Absentism factors for industrial plants. J. D. Hackett. Management & Adm 7:199-203 F '24

How we have reduced employees' absences. H. N. Potts. Factory 34:286 F '25

Office absenteeism and tardiness. P. W. Herring. 10p American management assn., 20 Vesey st., New York '24

Rules for leave of absence; Dennison mfg. co. Am Management R 13:10 Ja '24

See also Sick leave

ABSOLUTE zero

Absolute temperature. Am Gas J 120:221-2 Mr 8 '24

Entropy of supercooled liquids at the absolute zero. L. Pauling and R: C. Tolman. Am Chem Soc J 47:2148-56 Ag '25

ABSORPTION

Absorbent and decolorising carbons. E. R. Sutcliffe. Soc Chem Ind J (Chem & Ind) 43:635-6 Je 20 '24

Absorption of carbon dioxide and ammonia from gas bubbles. P. G. Ledig. il diags Ind & Eng Chem 16:1231-3 D '24

Absorption of gases and vapours by liquids. J. Brown. Soc Chem Ind J 44:410-12 Ag 7 '25

Absorption of hydrocyanic acid by solid sodium carbonate. F. V. Bichowsky. diag Ind & Eng Chem 17:959-60 S '25

Absorption of hydrogen sulfide. F. W. Sperr, jr. il Ind & Eng Chem 16:1237-9 D '24

Absorption of nitrogen oxides in the chamber acid process. G: E. Beavers. il Chem & Met Eng 32:280-2 F 16 '25

Absorption of oxygen and liberation of carbon monoxide by alkaline pyrogallol solutions. T: J. Drakeley and H. Nicol. Soc Chem Ind J 44:457-62 S 25 '25

Absorption of potassium vapor at high temperatures, and satellites accompanying the members of the principal series. A. L. Narayan and D. Gunnayya. Phys R 23:46-7 Ja '24

Activated carbon v. silica gel. N. K. Chaney. Soc Chem Ind J (Chem & Ind) 42:1141-2 N 23 '23

Activated graphite as a sorbent of oxygen. D. H. Bangham and J: Stafford. Chem Soc J 127:1085-94 My '25

Charcoal, the chemical truant officer; a new process for catching volatile solvents and putting them back to work. I. Ginsberg. diags Sci Am 131:328 N '24

Comparative absorption rates for various gases. W. G. Whitman and D. S. Davis. diag Ind & Eng Chem 16:1233-7 D '24

Disappearance of gas in the electric discharge. Philos Mag 6th ser 48:553-80 S '24

Effect of gas velocity and temperature on rate of absorption. R. T. Haslam, R. L. Hershey and R. H. Keen. diag Ind & Eng Chem 16:1224-30 D '24

Electrolysis of soda-lime glass; evolution of gas and its relation to sorption and conductivity. J. W. Rebbeck and J. B. Ferguson. diags Am Chem Soc J 46:1991-2002 S '24

Experimental investigation of the dynamical equation of the process of gas-sorption. D. H. Bangham and W. Sever. Philos Mag 6th ser 49:935-44 My '25

Factors in the design of absorption apparatus. W. K. Lewis and W. H. McAdams. Am Gas Assn Technical sec v 5:1143-55 '23

Influence of constitutional variation upon the absorption and stability to hydrogen ions of certain halogenated derivatives of fluorescein. W. C. Holmes. Am Chem Soc J 46: 2770-5 D '24

Mechanism of absorption of moderately soluble gases in water. H. G. Becker. diag Ind & Eng Chem 16:1220-4 D '24

Method for studying the rapid absorption of gases by liquids. P. G. Ledig and E. R. Weaver. il diags Am Chem Soc J 46:650-7 Mr '24

New absorbent for oxygen in gas analysis. L: F. Fieser. Am Chem Soc J 46:2639-47 D '24

New vessel for the absorption of hydrochloric acid. S. L. Tylor. diags Am Inst Chem Eng Trans v 14:125-31; Discussion. 132-3 '21-'22

Principles of gas absorption. W. K. Lewis and W. G. Whitman. Ind & Eng Chem 16:1215-20 D '24

Progress in absorption; review of the papers presented at the symposium on absorption at the Ithaca meeting of the American chemical society, September 11, 1924. W. G. Whitman. Chem & Met Eng 31:419-21 S 15 '24

Rate of absorption and equilibrium of carbon dioxide in alkaline solutions. R. V. Williamson and J. H. Mathews. diag Ind & Eng Chem 16:1157-61 N '24

Rate of absorption of hydrochloric acid gas in the Tyler vitreosil system. H. E. Fritz and J. R. Withrow. diags plan Am Inst Chem Eng Trans v 15 pt 1:217-29 '23

Séparation des mélanges complexes et récupération des liquides volatils. P. C: Lemale. il diags Chimie & Ind 11:657-61 Ap '24

Sorption of iodine and catalytic decomposition of hydrogen peroxide solution, by Norit charcoals. J. B. Firth and F. S. Watson. bibliog J Phys Chem 29:987-94 Ag '25

Theory of gas absorption in counter current apparatus. E. M. Baker. Am Inst Chem Eng Trans v 15 pt 1:195-216 [bibliog. p. 212-16] '23

See also Adsorption; Decolorization; Silica gel

ABSORPTION of rays

Absorption coefficient for slow electrons in gases. R. B. Brode. diags Phys R 25:636-44 My '25

Absorption coefficients of homogeneous X-rays between wave-lengths 0.1 A and 0.71 A. S. J. M. Allen. Phys R 24:1-8 Jl '24

ABSORPTION of rays—*Continued*
Absorption measurements of the change of wave-length accompanying the scattering of X-rays. A. H. Compton. diag Philos Mag 6th ser 46:897-911 N '23
Absorption of cathode rays in aluminum foil. H. M. Terrill. diag Phys R 24:616-21 D '24
Absorption of ultra-violet light by inorganic halides. F: H. Getman. diags J Phys Chem 29:853-64 Jl '25
Absorption of ultra-violet light in dilute solutions. C. J. W. Grieveson. diags Philos Mag 6th ser 49:1006-20 My '25
Absorption of X-rays by iron, cobalt, nickel and copper. F. K. Richtmyer and F. W. Warburton. Phys R 22:539-45 D '23
Effect of a magnetic field on the absorption of X-rays. J. A. Becker. Phys R 22:320-3 O '23
Estimation of maximum coefficients of absorption. R: C. Tolman. Phys R 26:431-2 O '25
Statistical equilibrium in relation to the photo-electric effect, and its application to the determination of absorption coefficients. E. A. Milne. Philos Mag 6th ser 47:209-41 Ja '24

ABSORPTION spectra. See Spectrum—Absorption spectra

ABSORPTION towers
Absorption of ammonia in towers. O. L. Kowalke, O. A. Hougen and K. M. Watson. diags Chem & Met Eng 32:443-6, 506-10 Ap-My '25
Extension of the theory of gas-absorption towers. W. B. Van Arsdel. Am Inst Chem Eng Trans v 14:391-413 '21-'22
Factors in the design of absorption apparatus. W. K. Lewis and W. H. McAdams. Am Gas Assn Technical sec v 5:1143-55 '23
Factors influencing the design of absorption apparatus. R. T. Haslam, W. P. Ryan and H. C. Weber. Am Inst Chem Eng Trans v 15 pt 1:177-92 '23; Same, without summary. Ind & Eng Chem 15:1105-8 N '23: Discussion. Am Inst Chem Eng Trans v 15 pt 1:192-4 '23
Glass rings—a new filling material for towers. F. C. Zeisberg. Am Inst Chem Eng Trans v 14:321-5; Discussion. 325-7 '21-'22
Study of absorption towers. M. B. Donald. Chem Age (Lond) 9:541 N 17 '23
Theory of gas absorption in counter current apparatus. E. M. Baker. Am Inst Chem Eng Trans v 15 pt 1:195-216 [bibliog. p 212-16] '23

ABSTRACT writing
Suggestion for abstracts of anthropological literature. A. E. Jenks. (Reprint and Circ. Ser. 56) 8p 20c National research council, 1701 Massachusetts av., Washington, D.C. '24

ACACATECHOL
Constitution of catechin; the production of maclurin from acacatechin. E. O. Hazleton and M. Nierenstein. Am Chem Soc J 46: 2100-5 S '24

ACADEMIC degrees. See Degrees, Academic

ACCELERATORS. See Vulcanization—Accelerators

ACCELEROMETER
Accelerometer for measuring impact. E. B. Smith. il diag Am Soc T M Pro 23 pt 2: 626-31; Discussion. 632-9 '23
Accurate accelerometers developed by the Bureau of public roads. L. W. Teller. il diags Pub Roads 5:1-9 D '24
New instrument for recording linear accelerations. F. H. Norton. il diags J Fr Inst 198:231-42 Ag '24
New quantitative method of measuring the riding comfort of automobiles. F. H. Norton. il diags Soc Auto Eng J 14:136-8 F '24
Riding qualities depend on proper combination of many factors. H. Chase. diag Automotive Ind 50:1022-3 My 8 '24
Riding-qualities of motor vehicles. R. W. Brown. il diags Soc Auto Eng J 17:107-14 Jl '25; Abstract. Automotive Ind 52:1149-52 Je 25 '25
Riding-quality measurements. Soc Auto Eng J 16:571-2 Je '25
Les variations de l'accélération des véhicules. G. Puica and J. Keraval. il diags Génie Civil 86:404-9 Ap 25 '25

ACCEPTANCES
American discount market. J. Thralls. Econ W n s 29:364-6 Mr 14 '25; Same. Am Ind 25:39-41 Ap '25; Same. Bankers M 110:621-5 Ap '25
Bank loans to finance the installment buyer. B. Davenport. Am Bankers Assn J 18:312+ N '25
Bankers' acceptances covering American cotton in foreign countries after export transaction completed. Fed Res Bul 10:638-9 Ag '24
Banker's acceptances in the Mexican sugar trade. F: Simpich. il Am Bankers Assn J 18: 333-4+ N '25
Bankers' acceptance, 1923-1924. Fed Res Bul 11:180-2 Mr '25
Bankers bill and the Federal reserve banks. W. R. Burgess. Am Bankers Assn J 18:329-30+ N '25
Commodity classification of acceptances. Bankers M 111:340 S '25; Same. Comm & Fin Chr 121:795-6 Ag 15 '25
Commodity classification of acceptances. Fed Res Bul 11:559-65 Ag '25
Credit and commercial paper. M. Marks. 248p J. W. Block, New York '24
Development of the domestic and international use of the dollar acceptance. F. I. Kent. Econ W n s 29:40-3 Ja 10 '25; Same. Comm & Fin Chr 120:37-9 Ja 3 '25
Effect of the taking of a trade acceptance upon right to a mechanic's lien on public work. Dom Eng 111:57-8+ Je 20 '25
Federal reserve banks and farm finance—new style. Comm & Fin Chr 121:905-6 Ag 22 '25
Growing use of bankers' acceptances. M. Ives. Am Bankers Assn J 17:561+ Mr '25
Negotiability of trade acceptance. T: B. Paton. Am Bankers Assn J 17:754 Je '25
Part played by United States in financing world's trade—use of acceptances here and abroad. F. A. Goodhue. Comm & Fin Chr 121:937-8 Ag 22 '25
Present volume and character of outstanding Federal reserve bank credit. Econ W n s 30:258-60 Ag 22 '25; Same. Fed Res Bul 11: 525-8 Ag '25; Same. Comm & Fin Chr 121: 941-2 Ag 22 '25
Proposes bankers' acceptances be tax exempt. P. M. Warburg. Comm & Fin Chr 117:2489-90 D 8 '23
Recommendations based on report of subcommittee of policy and operation committee of American acceptance council. Comm & Fin Chr 119:2127-9 N 8 '24
Report of the acceptance committee of the American bankers association. Bankers M 109:787-8 O 31 '24
Trade acceptance experience. Elec W 86:142-3 Jl 18 '25
Use of acceptances in financing American cotton. W: J. Carson. Econ W n s 27:798-800 Je 7 '24

ACCIDENT insurance. See Insurance, Accident

ACCIDENT law
See Employers' liability; Workmen's compensation

ACCIDENT prevention. See Safety devices and measures

ACCIDENTS
Dangerous ages. C. E. Robb. Nat Safety N 12:23-4 Ag '25
Fatal accidents to children high. Safety Eng 50:86 Ag '25
Getting the facts about public accidents. S. J. Williams. Nat Safety N 11:16-17 Ja '25
Hazard factors in the accident mortality record. Safety Eng 48:29 Jl '24
Home accidents as the nurse sees them. R. Jacobus. il Nat Safety N 9:21-2 Je '24
Home fatalities decrease in March, auto deaths increase. Nat Safety N 11:24 My '25

ACCIDENTS—*Continued*

Surveys show accident causes and suggest remedies. E. J. Reeder. Nat Safety N 11:23-4 Je '25

What statistics of public accidents reveal. L: I. Dublin. maps Nat Safety N 8:20-2 O '23

See also Automobile accidents; Aviation—Accidents; Building failures; Burns and scalds; Dust explosions; Electric railroads—Accidents; Explosions; Firearms—Accidents; Fires; Gas, Accidents from; Grade crossing accidents; Lightning; Motor bus lines—Accidents; Railroads—Accidents; Road accidents; Safety at sea; Safety devices and measures; Safety education; Safety movement; Shipwrecks; Street accidents; Street railroads—Accidents; Theaters—Accidents

Statistics

Census bureau statistics of fatal accidents in the United States in 1923. Econ W n s 29:97 Ja 17 '25; Safety Eng 49:127-8 Mr '25

Outlook for the control of public accidents. Econ W n s 28:565-6 O 18 '24; Same abr. Safety Eng 48:265 D '24

Public accidents in the United States in 1923. Nat Safety N 10:9-10 N '24

Statistics relating to public accidents. Safety Eng 46:223-8 N '23

ACCIDENTS, Automobile. See Automobile accidents

ACCIDENTS, Industrial

Accident prevention—employer's views. C. B. Auel. Safety Eng 48:104-7 S '24

Accident-prevention plans of the Illinois Department of labor. R. D. Cahn. Monthly Labor R 20:459-63 Mr '25

Accident statistics and accident prevention. R. Meeker. il Safety Eng 47:55-8 F '24

Aftereffects of industrial accidents upon women. Monthly Labor R 20:402-4 F '25

Alcoholism and industrial accidents. T. Voionmaa. Int Labour R 11:200-28 F '25

Analysis of accident causes. Safety Eng 50: 169-75 S '25

Analysis of lost time accidents in 3788 industrial plants. Safety Eng 50:109-14 Ag '25

Analysis of 350,000 industrial accidents. A. C. Carruthers. Safety Eng 47:118-20+ Mr '24

Automotive, rubber, and textile sections report 1924 experience. Nat Safety N 12:39 Ag '25

Better health—fewer accidents. H. A. Ley. Nat Safety N 11:10 Ap '25

Causes of accidents in handling material. D: S. Beyer. Safety Eng 47:101-6 F '24; Same. Blast F & Steel Pl 13:239-42 Je '25

Le IIe congrès de l'association de industriels de France contre les accidents du travail. Génie Civil 86:539-41 My 30 '25

Estimation of permanent disability in industrial accidents. H: H. Kessler. Nation's Health 7:465-7+ Jl '25

Factories and workshops accidents. Engineering 118:773-4 D 5 '24

Fatigue element in accident prevention. W: Baum. Ry Mech Eng 98:181-2 Mr '24; Same. Nat Safety N 9:32-3 Mr '24; Same. Safety Eng 47:136-8 Mr '24

Five years' sickness and accident experience in the Edison electric illuminating company of Boston. C. O. Sappington. bibliog J Ind Hygiene 6:81-101 Jl '24

Forty fatal accidents. R. Northrub. Safety Eng 48:264-5 D '24

Four more killed by oil and compressed oxygen. Nat Safety N 8:36 N '23

Industrial accidents and diseases in British factories and work-shops in 1924. Econ W n s 30:384-5 S 12 '25

Industrial accidents and hygiene. Published in monthly numbers of Monthly labor review

Industrial accidents in Chile in 1922. Monthly Labor R 21:147 Jl '25

Industrial accidents in Sweden in 1921. Monthly Labor R 20:160 Ja '25

Industrial accidents in the California oil fields. Monthly Labor R 18:622-4 Mr '24

Industrial accidents increasing in New York state. Safety Eng 50:89-90 Ag '25

Labor turnover and its relation to accidents. B. J. Mullaney. Nat Safety N 9:35 Ap '24

Old men more subject than younger to accidents. T: T: Read and W. W. Adams. Coal Age 25:941-2 Je 26 '24

L'organisation technique du travail; la sélection professionnelle et les accidents du travail. M. Frois. Chimie & Ind 10:768-70 O '23

Pennsylvania reducing industrial accidents. Safety Eng 48:108-9 S '24

Preventing industrial accidents. S. H. Kershaw. Can Eng 46:125-6 Ja 8 '24

Risk of accidents. Engineering 118:709-10 N 21 '24; Discussion. A. Jude. 118:810 D 12 '24

Saving manpower and $65,000. H. D. Martin. il Iron Tr R 77:491-4 Ag 27 '25

Some social and economic effects of work accidents to women. 67p New York (state) Bureau of women in industry, Albany '24

Ten cents more for light saves one dollar in accidents. Factory 35:540-1 O '25

Wages and wastes. C. B. Auel. Nat Safety N 11:17 Ap '25

See also Back strain; Boiler explosions; Building accidents; Burns and scalds; Cement plants—Accidents; Chemical plants—Accidents; Coal mines and mining—Accidents and explosions; Coke ovens—Accidents; Cranes, derricks, etc.—Safety devices; Disabled—Rehabilitation; Dust explosions; Electricity, Injuries from; Employers' liability; Explosions; Eye—Injuries; First aid in illness and injury; Metallurgical plants—Accidents; Mine accidents; Packing houses—Accidents; Paper mills—Accidents; Petroleum engineering—Accidents; Petroleum refineries—Accidents; Quarries and quarrying—Accidents; Railroads—Accidents; Railroads—Safety devices and measures; Rubber factories—Accidents; Safety bonus; Safety codes; Safety devices and measures; Safety education; Shipbuilding—Accidents; Textile mills—Accidents; Tunnels and tunneling—Accidents; Welding—Accidents; Woodworking shops—Accidents; Workmen's compensation; *also* International association of industrial accident boards and commissions

Bibliography

Index to Proceedings of International association of industrial accident boards and commissions, 1914-1924. G. L. Tibbott. U S Bur Labor Statistics Bul 395:1-57 '25

Cost

Cost of accidents in the Texas power and light company. il chart Safety Eng 48:11-13 Jl '24

Records

Accident records and how to keep them. C. B. Auel. Am Mach 61:639-40 O 23 '24

Compiling accident records. R. G. Adair. Nat Safety N 8:29-30 N '23

Statistics

Accident mortality in 1923 among insured wage-earners in American states and Canadian provinces. Econ W n s 28:99 Jl 19 '24

Automotive section accident statistics—1923. Nat Safety N 9:49 Je '24

Estimated annual number and cost of industrial accidents in the United States. C. Hookstadt. Monthly Labor R 17:991-9 N '23

Industrial accidents in the California oil fields. H. C. Miller. Safety Eng 48:19-21 Jl '24

Industrial accidents in Uruguay, 1913 to 1923. Monthly Labor R 21:791 O '25

Industrial accidents increase in 1923. Nat Safety N 9:19-20 Ap '24

Industrial fatalities have increased nearly 30 per cent during the past year. Safety Eng 48:134 S '24

Industrial fatalities in New York state from October, 1923 to September, 1924. Econ W n s 28:744-5 N 22 '24

ACCIDENTS, Industrial—Statistics—*Continued*
Metals section accident statistics, 1923. Nat Safety N 9:50-1 Je '24
Petroleum section presents 1923 statistics. Nat Safety N 8:46 O '23
Preparation and use of accident statistics. A. S. Regula. Safety Eng 48:53-7 Ag '24
Progress in industrial accident prevention. F: L. Hoffman. Safety Eng 49:164-9 Ap '25
Record of industrial accidents in the United States for the year 1922. C. Hookstadt. Monthly Labor R 18:145-8 Ja '24
Reports show slight increase in industrial fatalities. Nat Safety N 11:19-20 Ap '25; Same. Monthly Labor R 20:1124-7 My '25
Rubber section accident rates continue downward. Nat Safety N 11:20-1 F '25
Seasonal fluctuations in frequency of industrial accidents. H. D. Kitson and C. Campbell. bibliog J Ind Hygiene 5:408-9 Mr '24
Standardizing accident statistics. L. W. Chaney. Safety Eng 48:155-8 O '24
Transmission accidents in Pennsylvania in 1924. Safety Eng 50:200 O '25
Value of statistics as related to law enforcement. J: Roach. Safety Eng 48:65-9 Ag '24; Same. Monthly Labor R 19:1219-23 D '24

See also Steel works—Accidents

ACCOUNTANTS
Accountancy as a profession. J. H. Jackson. J Account 40:161-72 S '25
Accountant versus embezzler. E. A. St John. J Account 37:441-51 Je '24
Growth of professional ethics. C. H. Nau. J Account 37:1-10 Ja '24
Some professional obligations. J. H. Covington. J Account 36:417-20 D '23
What vocational accountants can do for a big business. A. R. Erskine. Automotive Ind 50:1015-16 My 8 '24

Advertising

Ethics of advertising for accountants. C. H. Scovell. Management & Adm 7:345-7 Mr '24
How Treasury department enforces ban on federal tax expert advertising. J. True. Ptr Ink 125:49-50+ D 20 '23

ACCOUNTANTS, Public
Accountant and the law. J. H. Covington. J Account 40:267-75 O '25
Accounts of the public accountant. R. S. Pasley. J Account 38:348-53 N '24
Board of tax appeals and the certified public accountants. J. G. Korner, jr. J Account 40: 321-8 N '25
Professional accountancy education within the public accountant's organization. J. H. Jackson. J Account 38:6-21 Jl '24
Public service of the public accountant. J. A. Marvin. J Account 37:187-92 Mr '24
Relation of the accountancy instructor to the development of professional standards in the practice of accountancy. H. S. Pace. J Account 37:349-56 My '24
Relationship between banker and accountant. W. W. Head. J Account 38:1-5 Jl '24; Same. Paper Tr J 79:54-6 Jl 24 '24
Some thoughts on modern tendencies. H. C. Freeman. J Account 39:361-6 My '25; Same. Paper Tr J 81:61-2 N 5 '25
Training of accountants in England. T. H. Sanders. J Account 38:112-24 Ag '24

See also Auditing; Women as accountants

Examinations

American institute examinations. A. J. Lynn. J Account 40:180-2 S '25
American institute of accountants' examination in accounting theory and practice, Nov. 15, 1923. J Account 37:51-67, 125-42 Ja-F '24
American institute of accountants' examination in accounting theory and practice, May, 1924. J Account 38:52-67, 136-51 Jl-Ag '24
American institute of accountants' examination in accounting theory and practice, May 14-15, 1925. J Account 40:54-73, 131-44, 214-19, 301-12 Jl-O '25
American institute of accountants' examination in auditing, May 15, 1924. J Account 38: 299-314 O '24
American institute of accountants' examination in auditing, May 14, 1925. J Account 39:441-4 Je '25
American institute of accountants' examination in commercial law, May 16, 1924. J Account 38:219-25 S '24
American institute of accountants' examinations, November 13-14, 1924. J Account 39: 51-68, 144-55, 217-33, 336-48 Ja-Ap '25
C.P.A. accounting; theory, questions, and problems. G: H. Newlove. 2v White press co., Washington, D.C. '23

Law

C.P.A. legislation. J Account 38:354-62 N '24
New York accountancy bill vetoed; the Maryland law. J Account 37:452-7 Je '24
New York legislation. J Account 37:365-72 My '24
Restrictive legislation in New York. H. S. Pace. J Account 37:262-7 Ap '24

ACCOUNTANTS' offices
Accountant's office organization. E. G. Lee. J Account 39:470-3 Je '25

ACCOUNTANTS' reports
Accountants' reports. W: H. Bell. 2d ed., rev. and enl. 386p Ronald press '25
Reports, their style and diction. E. Reckitt. J Account 39:99-110 F '25
Staff preparation and editing of reports. W: H. Bell. J Account 39:114-24 F '25

ACCOUNTING
Accountants' and auditors' manual. W: M. Stone and others. 422p McKay '25
Accountant's duty to uncover questions of law. H. D. Greeley. J Account 40:23-36 Jl '25
Accountants' handbook. E. A. Saliers, ed. 1675p Ronald press '23
Accounting. W: A. Paton. 894p Macmillan '24
Accounting elements. W. J. McCarty. 375p Prentice-Hall '25
Accounting for surplus. P. W. Pinkerton. 120p Ronald press '24
Accounting laboratory manual. W: S. Krebs. 132p Holt '24
Accounting practice. J: T: Madden. 352p Alexander Hamilton inst., New York '23
Accounting principles and bookkeeping methods. H. A. Finney. 2v 329p; 248p Holt '24
Accounting principles underlying federal income taxes, 1924. E. L: Kohler. 489p Shaw '24
Accounting problems: advanced. C: F. Rittenhouse and A. L. Percy. 404p McGraw-Hill '24
Accounting problems: elementary. C: F. Rittenhouse and A. L. Percy. 261p McGraw-Hill '24
Accounting service as an executive aid. C: L. Edgar. Elec W 85:1073-4 My 23 '25
American business accounting. E. E. Jones and others. American business bureau, Rockford, Ill. '25
Auditing and accounting handbook. F. W. Kilduff. 813p McGraw-Hill '24
Basic accounting. G: E. Bennett. 777p Gregg '25
Cash records. G: T. Altman. 117p Ronald press '24
Consignments, account sales and accounts current. E. J. Hammond. 152p Pitman '24
Determining profits in advance; standard costs. G. C. Harrison. Management & Adm 8:605-10; 9:41-5 D '24-Ja '25
Development of modern practice. W. C. Heaton. J Account 40:108-9 Ag '25
Elements of a financial investigation. R. G. Davis. Management & Adm 8:277-8 S '24; Same. Paper Tr J 79:53-4 S 11 '24
Elements of accounting. F: W. Woodbridge. 700p Ronald press '25
Elliott-Fisher simplified accounting plan. 104p Elliott-Fisher co., New York '24
First steps in accounting. American business accounting, section 1. E. E. Jones and others. 3v American business bureau, Rockford, Ill. '25

ACCOUNTING—*Continued*

Foreign exchange accounting. A. H. Whitman. Harvard Business R 2:465-72 Jl '24

Four years in business; a story illustrating the elements of accounting. 46p General electric co., Cleveland '24

General accounting as related to production control. P. Stotenbur. Cassier's Ind Management 11:70-1, 155 F 7, Mr 20 '24

Gross and net profits. F. L. Fisher. Paper Tr J 81:55-8+ Ag 13 '25

How we trimmed the office budget 70%. H. Coggan. il System 47:178-80+ F '25

Importance of accounting to management. A. R. Erskine. J Account 38:107-11 Ag '24; Same. Paper Tr J 79:51-2 O 2 '24

Management through accounts. J. H. Bliss. 851p Ronald press '24

Mathematics applied to a business problem. A. L. Gareis. Management & Adm 7:92-3 Ja '24

Mathematics for the accountant. E. R. Vinal. 3d ed. 201p Gregg '24

Mathematics of accounting. A. B. Curtis and J. H. Cooper. 397p Prentice-Hall '25

Modern accountancy. F. J. Wade. J Account 38:419-21 D '24

Modern accounting systems. W: D. Gordon and J. Lockwood. 464p Wiley '24

Modern practice in stores management. W. D. Gordon. chart Ind Management 66:320-6 D '23

Modern tendencies in accounting practice. J. O. McKinsey. J Account 39:299-308 Ap '25; Same. Paper Tr J 80:59-62 Ap 16 '25

Natural business year. E. W. Sells. 276p Shaw '24

New inductive accounting. S: H. Goodyear. 142p Metropolitan supply co., Cedar Rapids, Ia. '23

Operating control through scientific analysis. W. H. Justin. J Account 38:183-95 S '24; Same. Paper Tr J 79:51-4 S 18 '24; Same. Paper 34:991-5; Discussion. 1008-9 S 18 '24

Operating ratios and costs as guides to management. U. F. von Rosen. Paper Tr J 80: 56-8 My 21 '25

Outlines of accounting. W: S: Krebs. 594p Holt '23

Practical application of the theory of accounting for supplies. P. W. Pogson. J Account 36:430-9 D '23; Same cond. Paper Tr J 78: 59-61 F 7 '24

Principles of accounting. H. A. Finney. 2v Prentice-Hall '23

Principles of accounts, in accordance with the memorandum (Circular 1116) issued by the Board of education. T: C. Jackson and W. Hustwick. 237p W. B. Clive, Univ. tutorial press, London '22

Principles of business accounting and business letters. E. E. Garrison. 272p Doubleday '25

Problems in the installation of accounting systems. W: A. Ullrich. J Account 37:193-201 Mr '24; Same. Paper Tr J 78:55-7 Mr 13 '24

Publicity in industrial accounts, with a comparison of English and American methods. A. Lowes-Dickinson. tables Roy Statis Soc J 87:391-419; Discussion. 420-32 My '24

Resources and their application. P.-J. Esquerré. J Account 39:424-30 My '25

Specialized accounting. G: H. Newlove and L. A. Pratt. 475p McGraw-Hill '25

System building and constructive accounting. R. D. Willard. 2d ed. 361p McGraw-Hill '24

Taxable income and accounting bases for determining it. G: O. May. J Account 40: 248-66 O '25; Same. Paper Tr J 81:59-64 O 22 '25; Discussion. A. A. Ballantine. J Account 40:349-54 N '25

Theory of accounts. v 1 D. R. Scott. 284p Holt '25

Use and occupancy insurance; its relation to the accounting profession. L. J. Wolfe. J Account 39:281-92 Ap '25

See also Accountants; Accountants, Public; Amortization; Arithmetic, Commercial; Auditing; Balance sheets; Bank accounting; Billing; Bookkeeping; Bookkeeping machines; Budget, Business; Capital; Cost accounting; Depletion; Depreciation; Discount; Discount, Trade; Dividends; Farm accounting; Financial standards; Financial statements; Fiscal year; Foundry accounting; Good will (in business); Highway accounting; Income tax; Interest; Inventories; Invoice forms; Invoices; Labor cost; Mine accounting; Municipal accounting; Overhead expense; Payrolls; Perforated records; Profit; Profit and loss statements; Stores systems; Surplus; Time keeping; Valuation; *also* subdivision Accounting under special subjects, e.g. Advertising; Architects; Automobile factories; Branch houses; Building; Building and loan associations; Cement plants; Chemical plants; Colleges and universities; Contractors; Corporations; Electric contractors; Electric industries; Electric railroads; Electric trucks; Electric utilities; Executors and administrators; Factories; Garment factories; Gas companies; Holding companies; Insurance, Casualty; Insurance, Fire; Knitting mills; Linoleum factories; Milk trade; Motor bus lines; Naval stores; Newspapers; Oil companies; Oleomargarine factories; Paper mills; Petroleum industry and trade; Photographers; Plumbing trade; Power cost; Printing trade; Public utilities; Railroads; Receivers; Retail trade; Seasonal industries; Shipping; Street cleaning departments; Taxation; Textile mills; Trade associations; Waterworks

Bibliography

Accountants' index; bibliography of accounting literature, January, 1921—June, 1923. 599p Am. inst. of accountants, New York '23

Current literature. Published in monthly numbers of Journal of accountancy

Examinations

See Accountants, Public—Examinations

History

Early days of American accountancy. J. T. Anyon. J Account 39:1-8, 81-92, 161-9 Ja-Mr '25

Laws and regulations

See Accountants, Public—Law

Mechanical aids

If it's bookkeeping—we do it mechanically. J: L. Fulling. Gas Age 56:517-18 O 10 '25

See also Adding machines; Calculating machines; Counting machines and devices: Office appliances; Payroll machine; Tabulating machines

Study and teaching

Accounting courses in universities. L. S. Lyon. J Account 38:422-9 D '24

American institute of accountants' examination in accounting theory and practice, Nov. 15, 1923. J Account 37:51-67, 125-42 Ja-F '24

American institute of accountants' examination in accounting theory and practice, May, 1924. J Account 38:52-67, 136-51 Jl-Ag '24

American institute of accountants' examination in accounting theory and practice, November 13, 1924. J Account 39:51-68, 144-55, 217-33 Ja-Mr '25

American institute of accountants' examinations, May 14 and 15, 1925. J Account 39:444-51, 454-9 Je '25

Courses in accounting; Oregon institute of technology. E: L. Clark. J Account 39:317-18 Ap '25

Cultural value of accountancy studies. R. E Blight. J Account 39:385-92 My '25

Half hour drills. S: F: Racine. 111p Western inst. of accountancy, commerce and finance, Seattle '24

Harvard graduate school of business administration; courses in accounting. S. Livermore. J Account 39:24-6 Ja '25

ACCOUNTING—Study and teaching—*Cont.*
Laboratory manual; elements of accounting. F. H. Elwell. 85p Parker co., Madison, Wis. '24
Laboratory manual; theory and practice of accounting. F. H. Elwell. 117p Parker co., Madison, Wis. '24
Professional accountancy education within the public accountant's organization. J. H. Jackson. J Account 38:6-21 Jl '24
Relation of the accountancy instructor to the development of professional standards in the practice of accountancy. H. S. Pace. J Account 37:349-56 My '24
Teaching accounting at Boston university. E. W. Lord. J Account 38:345-7 N '24
Training for accounting at Northwestern university. R. E. Heilman. J Account 39: 111-13 F '25
University courses in accountancy; University of Minnesota. E. A. Heilman. J Account 39:380-4 My '25
University courses in accounting. A. L. Pickett. J Account 38:435-6 D '24
University courses in accounting; University of Oklahoma. W. K. Newton. J Account 39: 194-6 Mr '25

ACCOUNTING, Cost. See Cost accounting

ACCOUNTING, Municipal. See Municipal accounting

ACCOUNTING departments
Production schedule for factory accounting work. D. Ross. Management & Adm 9:363-4 Ap '25

ACCOUNTS, Collecting of. See Collecting of accounts

ACCUMULATORS, Electric. See Storage batteries

ACCUMULATORS, Hydraulic. See Hydraulic accumulators

ACCUMULATORS, Steam. See Steam accumulators

ACEDRONOLES
Dyeing acetate silk. C: E. Mullin. Am Dyestuff Rep 14:463-5 Jl 13 '25

ACENAPHTHAQUINOLINE
α-Acenaphthaquinoline. J. Stewart. Chem Soc J 127:1331-2 Je '25

ACENAPHTHENE
Some derivatives of acenaphthene. F. R. Lorriman. Am Chem Soc J 47:211-16 Ja '25
Studies in the acenaphthene series; *o*-aminoacenaphthene. G. T. Morgan and A. D. Sheasby. Soc Chem Ind J 44:408-10 Ag 7 '25
Studies in the acenaphthene series; 4-aminoacenaphthene. G. T. Morgan and H. M. Stanley. Soc Chem Ind J 43:343-6 D 5 '24
Studies in the acenaphthene series; ω-aminoacenaphthene and further observations on *m*-aminoacenaphthene. G. T. Morgan and H. M. Stanley. Soc Chem Ind J 44:493-6 O 23 '25

ACENAPHTHENEQUINONE
Dyes derived from acenaphthenequinone. A. C. Sircar and S. K. Guha. Chem Soc J 125: 335-40 F '24

ACETAL
Catalysis in acetal formation. E. W. Adams and H. Adkins. Am Chem Soc J 47:1358-67 My '25
Relation of structure, affinity and reactivity in acetal formation. T. Adkins and E. W. Adams. Am Chem Soc J 47:1368-81 My '25

ACETALDEHYDE
Acetaldehyde from acetylene. Chem Age 32: 205 Ap '24

ACETALDOL
Heat of formation of acetaldol. T. P. G. Shaw Soc Chem Ind J 44:195-6 Ap 24 '25; Same. Can Chem & Met 9:140-1 Je '25

ACETALS
Studies on reactions relating to carbohydrates and polysaccharides; the use of acetylene for the synthesis of cyclic acetals. H. S. Hill and H. Hibbert. Am Chem Soc J 45:3108-16 D '23
Studies on the reactions relating to carbohydrates and polysaccharides; synthesis and relative stability of cyclic acetals from 1,2- and 1,3-glycols. H. Hibbert and J: A. Timm. Am Chem Soc J 46:1283-90 My '24
See also Acetal

ACETAMINOPHENYLSTIBINIC acid
o-amino and *o*-acetaminophenylstibinic acids. A. D. Macallum. Soc Chem Ind J 42:468-71 D 7 '23

ACETANILIDES
Freezing-point curves of binary mixtures of some substituted acetanilides. G. Owen. Chem Soc J 123:3392-7 D '23

ACETATE of lime. See Calcium acetate

ACETATE silk. See Silk, Artificial

ACETIC acid
Acetic acid. Chem & Met Eng 31:69 Jl 14 '24
Cheap acetic acid. Chem Rec Age 23:15 Ap 27 '25
Determination of acetic and butyric acids. E. Fyleman. Soc Chem Ind J 43:142-3 My 9 '24
Effect of acetic acid on animal glue. G. W. Sullivan. Tech Assn Pa ser 8:57-8 '25; Same. Paper Tr J 80:215+ F 5 '25
Electrical conductivities of mixtures of aniline, acetic acid, and water. J. R. Pound. Chem Soc J 125:1560-4 Ag '24
How the wood distiller dodges corrosion. flow sheet Chem & Met Eng 31:52-3 Jl 14 '24
Influence of certain chemicals on the rate of reproduction of yeast in wort; acetic acid. N. A. Clark. J Phys Chem 28:229-30 Mr '24
Monomolecular films between liquids: butyric acid between water and hexane, and acetic acid between water and benzene. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:1610-13 Je '25
Properties of mixtures of aniline, water, and some fatty acids. J. R. Pound and R. S. Russell. Chem Soc J 125:769-80 Ap '24
Some binary systems composed of acetic acid and the homologues of aniline. E. A. O'Connor. Chem Soc J 125:1422-7 Jl '24
Sorption of toluene and acetic acid and their mixtures by carbon. A. M. Bakr and J. W. McBain. Am Chem Soc J 46:2718-25 D '24
See also Dehydro-acetic acid; Methanetriacetic acid; Thioacetic acid

ACETIC anhydride
Analysis of acetic anhydride. W. S. Calcott, F. L. English and O. C. Wilbur. Ind & Eng Chem 17:942-4 S '25
Interaction of bromine with acetic anhydride. K. J. P. Orton, H. B. Watson and J: E. Bayliss. diag Chem Soc J 123:3081-96 D '23
Interactions of tellurium tetrachloride and acetic anhydride. G. T. Morgan and H. D. K. Drew. Chem Soc J 127:531-8 Mr '25

ACETOACETIC ester
Interaction of acetoacetic ester and *o*-hydroxydistyryl ketones. I. M. Heilbron and T: A. Forster. Chem Soc J 125:2064-8 O '24

ACETOMESITYLENE
Oxidation of acetomesitylene with permanganate. W: H: Perkin, jr. and R: A. B. Tapley. Chem Soc J 125:2428-37 N '24

ACETONE
Acetone by distillation of wood with lime. A. W. Schorger. Ind & Eng Chem 17:944 S '25
Acetone-iso-acetone equilibrium. W: L. Evans and W: D. Nicoll. Am Chem Soc J 47:2789-92 N '25
Acetone, its properties and uses. R. F: Remler. 26p [bibliog. p. 22-4] National wood chemical assn., Bradford, Pa. '24
Action of mixtures of nitric and hydrochloric acids on acetone. W. J. Boyd. Soc Chem Ind J 44:222 My 8 '25
Density and viscosity of acetone at low temperatures. E. H: Archibald and W: Ure. Chem Soc J 125:726-31 Mr '24

ACETONE—*Continued*
Effect of nitrogen and carbon dioxide dilutions on explosion limits of acetone and methanol and their mixtures. H. Crouch and E. K. Carver. diag Ind & Eng Chem 17:641-2 Je '25
Estimation of acetone in presence of alcohol by a vapor pressure method. E. A. Vuilleumier. Ind & Eng Chem 17:174 F '25
Influence of certain chemicals on the rate of reproduction of yeast in wort; acetone. N. A. Clark. J Phys Chem 28:224-6 Mr '24
Metals for use in handling organic solvents; action of acetone and methanol. R. F. Remler. il Chem & Met Eng 30:511-12 Mr 31 '24
Optimum conditions for the preparation of ketene from acetone. C: D. Hurd and W: H. Tallyn. Am Chem Soc J 47:1427-30 My '25
Specific heats and latent heats of fusion of ice and of several organic compounds. O. Maass and L. J. Waldbauer. Am Chem Soc J 47:1-9 Ja '25

ACETONYLBARBITURIC acid
Acetonyl-barbituric acid and some of its derivatives. A. W. Dox and B. Houston. Am Chem Soc J 46:252-6 Ja '24

ACETOPHENONE
Electrical conductance of solutions of the alkali halides in acetophenone. J. L. R. Morgan and O. M. Lammert. diag Am Chem Soc J 46:1117-32 My '24
Photochemical reactions in solutions of the alkali halides in acetophenone. J. L. R. Morgan, O. M. Lammert and R. H. Crist. diag Am Chem Soc J 46:1170-8 My '24
Purification and physical constants of acetophenone. J. L. R. Morgan and O. M. Lammert. Am Chem Soc J 46:881-8 Ap '24

ACETYL (radical)
Wandering of the acetyl group during methylation. O. Kubota and A. G: Perkin. Chem Soc J 127:1889-96 Ag '25

ACETYL salicylic acid
Melting point of acetyl salicylic acid. M. E. Putnam. Ind & Eng Chem 16:778 Ag '24

ACETYLENE
Acetaldehyde from acetylene. Chem Age 32: 205 Ap '24
Acetylene-aldehyde condensation products. Chem & Met Eng 29:979 N 26 '23
Acetylene distribution on welded pipe line in Texas. G. O. Carter. il Eng N 94:738-9 Ap 30 '25
Catalytic condensation of acetylene with benzene and its homologs. J. S. Reichert and J. A. Nieuwland. Am Chem Soc J 45:3090-1 D '23
Catalytic condensation of acetylene with phenols. H. H. Wenzke and J. A. Nieuwland. Am Chem Soc J 46:177-81 Ja '24
Condensation of acetylene and hydrogen sulphide in presence of catalysts. M. G. Tomkinson. Chem Soc J 125:2264-6 N '24
Essais de préparation de benzène synthétique par condensation de l'acétylène sous l'influence de la chaleur. A. Kovache and E. Tricot. diags Chimie & Ind 13:361-72, 537-47 Mr-Ap '25
Explosion of acetylene and nitrogen; spectra of explosions of gases containing hydrogen, carbon, nitrogen, and oxygen. W: E: Garner and S: W. Saunders. Chem Soc J 127:77-82 Ja '25
Explosion of acetylene and nitrogen; the effect of the addition of oxygen on the production of hydrocyanic acid. W: E: Garner and S. W. Saunders. Chem Soc J 125:1634-41 Ag '24
Le VIII[e] Congrès international de l'acétylène, de la soudure autogène et des industries qui s'y rattachent. P. Rosemberg. Chimie & Ind 11:sup7-12 Mr '24
Liberation of hydrogen from carbon compounds; the interaction of acetylene, methyl alcohol and formaldehyde with fused caustic alkalies. H. S. Fry, E. L. Schulze and H. Weitkamp. Am Chem Soc J 46:2268-75 O '24
Portable acetylene generator. il Automotive Ind 53:91 Jl 16 '25; Eng & Contr (Equip R) 64:756 S 30 '25
Regulations for the installation and operation of acetylene equipment. Safety Eng 48:35-6 Jl '24
Studies on reactions relating to carbohydrates and polysaccharides; the use of acetylene for the synthesis of cyclic acetals. H. S. Hill and H. Hibbert. Am Chem Soc J 45: 3108-16 D '23
Tautomerism of dyads; acetylene and its halogen derivatives. E. H. Ingold. Chem Soc J 125:1528-37 Jl '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:385 Ap 11 '24

See also Oxyacetylene apparatus; Oxyacetylene cutting; Oxyacetylene flame; Oxyacetylene welding

By-products
Utilizing carbide residue. J. J. Murphy. Chem & Met Eng 32:800 O '25

ACETYLENE compounds
Application of the Grignard reaction to some acetylenic compounds. F. J. Wilson and W: M. Hyslop. Chem Soc J 123:2612-18; 125: 1556-8 O '23, Ag '24
Method for the preparation of primary acetylenic alcohols. H. H. Guest. Am Chem Soc J 47:860-3 Mr '25

ACETYLENE lighting
Leuchtfeuer- und signalanlagen nach dem AGA-system. A. Mellin. il Zeit Ver Deutsch Ing 68:334-8 Ap 5 '24
Modern gas and bell buoy built by lighthouse service. il diags Eng N 93:783-4 N 13 '24

ACHESON, Edward Goodrich
Discovery of carborundum: manufacture of graphite. F. A. J. Fitzgerald. por Ind & Eng Chem 16:971 S '24

ACID anhydrides. See Anhydrides

ACID fumes. See Fumes, Acid

ACID handling
Carboy elevating trucks. il Chem Age (Lond) 13:216 Ag 29 '25
Care of drug room in dyehouses and bleacheries. J. M. Matthews. Chemicals (Dyestuffs sec) 16:181-3 Je 22 '25
Hazards in the handling and transportation of acid. M. F. Crass. il Ind & Eng Chem 17:1056-8 O '25; Same cond. Chem Age (Lond) 13:444 O 31 '25
How acid is packed for shipment abroad. il Chem Age (Lond) 11:316 S 27 '24
Jug in fibre container reduces acid hazards. il Nat Safety N 8:46 O '23
Safe handling of acid containers. Nat Safety N 11:44 My '25
Safe transportation of acid in carboys and drums. M. F. Crass. Chem Age 31:497-8 N '23
Transport, storage and distribution of hydrochloric acid, with an account of a complete modern installation. D. M. Newitt. bibliog il diags plan Soc Chem Ind J (Chem & Ind) 43:186-94 F 22 '24; Excerpts. India Rubber W 71:15-16 O '24; Abstract. Chem Age (Lond) 10:192-3 F 23 '24

See also Acid-resisting materials; Acid tanks; Carboys; Sulfuric acid

ACID mists. See Mists, Acid

ACID phosphate. See Phosphates

ACID-resisting materials
Acid drainage systems; consideration for platers and cleaners. diag Brass W 21:132 Ap '25
Acid-proof centrifugal pumps. diags Soc Chem Ind J (Chem & Ind) 42:1156 N 30 '23
Acid resistant metal; alcumite. Textile World 67:4153 Je 27 '25
Acid-resisting iron for nitric acid plant. S. J. Tungay. diags Chem Age (Lond) 11:sup 25-7 O 4 '24
Action of lead upon alloys. G: A. Drysdale. Foundry 52:349-50 My 1 '24
Corrosion-resistant alloys for use in acid mine water. R. J. Anderson and G: M. Enos. Am Soc T M Pro 24 pt 2:259-72 [bibliog. p. 272] '24
Filter plate of great strength. Chem & Met Eng 31:509 S 29 '24

ACID-resisting materials—*Continued*
Handling corrosive wastes. Sanitary & Heat Eng 101:8-10 Ja 11 '24
Iron in the dye house and bleachery. W. Sanderson. Textile Col 47:302-3 My '25
Metals must resist corrosion; pumps in mines handling acidified waters require special metals. G. A. Drysdale. Foundry 51:952-4 D 1 '23; Same. Min Cong J 10:47-9 Ja '24
New acid-resisting material; prodorite. J. H. West. Chem Age (Lond) 12:522 My 30 '25
Use of acid-resisting metals. J. A. Malady and others. Min Cong J 11:329-30 Jl '25

See also Acid handling; Acid tanks; Bakelite; Concrete—Protection; Corrosion and anti-corrosives; Duriron; Lavasul; Pyrex; Rubber lining; Silica, Fused

ACID tanks
Acid-proof lining for tanks. il diag Chem Age (Lond) 13:445 O 31 '25
Further developments in rubber-lined acid tanks. il Chem & Met Eng 31:234-5 Ag 11 '24
Rubber-lined tanks for carrying acids. Brass W 20:345 O '24
Storage tanks for oils, acids and dry materials. il Nat Safety N 10:46-8 N '24
Transport, storage and distribution of hydrochloric acid, with an account of a complete modern installation. D. M. Newitt. bibliog il diags plan Soc Chem Ind J (Chem & Ind) 43:186-94 F 22 '24; Excerpts. India Rubber W 71:15-16 O '24; Abstract. Chem Age (Lond) 10:192-3 F 23 '24

See also Acid-resisting materials

ACID waste
How codes in various parts of the country regulate the use of kitchen catch basins and the disposal of acid wastes. R. M. Starbuck, jr. diags Dom Eng 112:22-4 Jl 18 '25

ACIDIMETRY
Active acidity and alkalinity. H. C. Chapin. Am Dyestuff Rep 13:759-62 N 17 '24
Study of the A.L.C.A. official method for the determination of the acidity of a tan liquor. H. T. Beans and E. Little. Ind & Eng Chem 17:252-7 Mr '25
Use of a cadmium half cell for the determination of the acidity of a tan liquor. H. T. Beans and E. Little. diags Ind & Eng Chem 17:413-14 Ap '25
Use of para-nitrobenzoic acid as an acidimetric standard. W: M. Thornton, jr., and D. Getz. diag Am J Sci 5th ser 9:176-80 F '25

ACIDITY
Co-ordination and acidity. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 42:1048-52 N 2 '23
Electronic theory of valency; the origin of acidity. T. M. Lowry. Philos Mag 6th ser 47:1021-4 My '24

See also Hydrogen ion concentration

ACIDS
Acid catalysis in lactone formation. H. S. Taylor and H. W. Close. J Phys Chem 29: 1085-98 S '25
Acids output in 1923 increased 32 percent. Oil Paint & Drug Rep 106:66 D 8 '24
Calculations on the neutralisation of mixtures of acids, and a universal buffer mixture. E. B. R. Prideaux and A. T. Ward. Chem Soc J 125:426-9 F '24
Configurational relationships of the sugars, hydroxy acids, amino acids and halogen acids. P. A. Levene. diags Chem R 2:179-216 [bibliog. p. 215-16] Jl '25
Heavy acids mark time. Chem & Met Eng 32: 114 Ja 19 '25
Systems of acids, bases and salts. E: C. Franklin. Am Chem Soc J 46:2137-51 O '24

See also Acid handling; Acidimetry; Acidity; Cotton, Effect of acids on; Peracids; *also* names of acids, e.g. Hydrochloric acid; Mucic acid; Nitric acid; Saccharinic acids; Silicic acid; Sulfuric acid Transportation
Acid car tests suggested by manufacturing chemists. Oil Paint & Drug Rep 108:62 O 19 '25

See also Acid handling

ACIDS, Fatty
Acids of camel hump fat. N. McClelland. Soc Chem Ind J 43:164 My 23 '24
Alternation in molecular volume of the normal monobasic fatty acids. W: E: Garner and E. A. Ryder. diag Chem Soc J 127:720-30 Mr '25
Alternation in the heats of crystallisation of the normal monobasic fatty acids. W. E. Garner and F. C. Randall. diag Chem Soc J 125:881-96 Ap '24
Commercial distillation of fatty acids and wool grease. G. F. Pickering. Soc Chem Ind J 44:424-30 Ag 14 '25
Conditions affecting bactericidal power. E. A. Cooper, D. L. Woodhouse and G. E. Forstner. Soc Chem Ind J 44:134-8 Mr 27 '25
Constitution of natural unsaturated fatty acids; a new method of ascertaining the position of the ethylenic linkage in acids of the oleic series. E. F. Armstrong and T. P. Hilditch. Soc Chem Ind J 44:43-7 Ja 30 '25
Constitution of natural unsaturated fatty acids; some acids present in a South Georgia whale oil. E. F. Armstrong and T. P. Hilditch. Soc Chem Ind J 44:180-9 Ap 24 '25
Determination of free fatty acid in bodied linseed varnishes and oils. L: M. Larsen and W: J. Young. Ind & Eng Chem 17:277 Mr '25
Distribution of normal fatty acids between water and benzene. F: S. Brown and C: R. Bury. Chem Soc J 123:2430-4 O '23
Fatty acid constituents of some natural fats; palm kernel oil. E. F. Armstrong, J: Allan and C: W. Moore. Soc Chem Ind J 44:143-4 Ap 3 '25
Fatty acid constituents of some natural fats; the oils from the coconut. E. F. Armstrong, J: Allan and C: W. Moore. Soc Chem Ind J 44:63-8 F 13 '25
Fatty acid molecule. T. W. Jones. Soc Chem Ind J (Chem & Ind) 43:782-4 Ag 1 '24
Further X-ray measurements of long chain compounds, and a note on their interpretation. A. Müller and G: Shearer. Chem Soc J 123:3156-64 D '23; Abstract. Soc Chem Ind J (Chem & Ind) 42:1138-9 N 23 '23
Labile nature of the halogen atom in organic compounds; the action of hydrazine hydrate on the halogen derivatives of α-nitro-fatty acids. A. K. Macbeth and D: Traill. Chem Soc J 127:892-8 Ap '25
Neglected chapter in chemistry: the fats. E. F. Armstrong and J: Allan. Soc Chem Ind J 43:207-18 Jl 11 '24; Same (Un chapitre négligé de la chimie; les graisses). Chimie & Ind 12:607-22 O '24; Abstracts. Chem Age (Lond) 11:31 Jl 12 '24; Soc Dyers & Col J 15:387-8 N '24
Observations on the higher fatty acids. G. T. Morgan and A. R. Bowen. Soc Chem Ind J 43:346-8 D 5 '24
Recent work on the fatty acids. T. W. Jones. Soc Chem Ind J (Chem & Ind) 42:1099-1100 N 16 '23
Separation of fatty acids. G. D. Elsdon. Chem Age (Lond) 10:188-9 F 23 '24
X-ray investigation of the lower members of the fatty acid series. R. E. Gibbs. diags Chem Soc J 125:2622-5 D '24

See also Acetic acid; Undecoic acid

ACIDS, Organic
Action of phenylmagnesium bromide on organic acids. F. N. Peters, jr. and others. Am Chem Soc J 47:449-54 F '25
Chemistry of the three-carbon system; the αβ-βγ change in unsaturated acids. G: A. R. Kon and R. P. Linstead. Chem Soc J 127: 616-24 Mr '25
Influence of valency direction on the dissociation constants of dibasic acids. C. H. Spiers and J. F. Thorpe. Chem Soc J 127:538-44 Mr '25

ACIDS, Organic—*Continued*
Relative stability of open-chain dibasic acids containing odd and even numbers of carbon atoms. W: A. P. Challenor and J. F. Thorpe. Chem Soc J 123:2480-5 O '23
Separating organic acids from aqueous solutions. Chem Age 32:101 F '24

See also Amino acids; Hydroxamic acids; Lactic acid; Saccharinic acids; Sulfonic acids

ACONITIC acid
Methylene-citric anhydride; the aniline derivatives of citric and aconitic acids. C. A. Nau, E. B. Brown and J. R. Bailey. Am Chem Soc J 47:2596-2606 O '25

ACOUSTICS. See Sound

ACOUSTICS, Architectural
Acoustic design of architectural interiors. V. O. Knudsen. Eng & Contr (Bldgs) 62:1371-8 D 24 '24
Acoustics and plaster. il Sci Am 131:165 S '24
Acoustics in auditorium design. P. E. Sabine. il diag Am Arch 125:579-86 Je 18 '24
Acoustics of auditoriums. F. R. Watson. J Fr Inst 198:73-83 Jl '24; Same. Arch & Bldg 57:59-62 Jl '25
Acoustics of church auditoriums. F. R. Watson. il diags Arch Forum 40:167-70 Ap '24
Acoustics of the Eastman theatre, Rochester, N.Y. F. R. Watson. il Am Arch 128:31-4 Jl 1 '25
Auditorium acoustics and the loud-speaker. G. A. Sutherland. Inst E E J 62:280-3 Mr '24
Optimum reverberation for an auditorium. S: Lifshitz. Phys R 25:391-4 Mr '25

See also Soundproofing

ACRIDINE
Bodies related to the acridines; abstract. Soc Dyers & Col J 40:262 Ag '24
Grünhagen patents on acridine dyestuffs. Color Tr J 15:107-8 O '24
Preparation of derivatives of acridine. Chem Soc J 124 pt 1:1130-3 N '23
Tetrahydroacridine, octahydroacridine and their derivatives. W: H: Perkin, jr. and W: G. Sedgwick. Chem Soc J 125:2437-51 N '24

ACRIDONES
Derivatives of acridone and tetrahydrocarbazole. W. H. Linnell and W: H: Perkin, jr. Chem Soc J 125:2451-60 N '24
Tetrahydroacridine, octahydroacridine and their derivatives. W: H: Perkin, jr. and W: G. Sedgwick. Chem Soc J 125:2437-51 N '24

ACTINIUM
Mobility of actinium active deposit ions. H: A. Erikson. diags Phys R 24:622-6 D '24

ACTIVATED carbon. See Carbon, Activated

ACTIVATED sludge method. See Sewage disposal—Activated sludge method

ACTIVATION
Activation of hydrogen in organic compounds. E. H. Usherwood. Soc Chem Ind J (Chem & Ind) 42:1246-51 D 28 '23
Further experiments on the periodic dissolution of metals. E. S. Hedges and J. E. Myers. Chem Soc J 127:445-9 F '25
Low temperature activation of hydrogen. A. E. Mitchell and A. L. Marshall. diag Chem Soc J 123:2448-57 O '23
Second report of the committee on contact catalysis; specific activation. W. D. Bancroft. J Phys Chem 27:853-77 D '23; Same. (Reprint & Circ. Ser. 50) p 853-77 50c National research council, 1701 Massachusetts av, Washington, D.C.
Studies of electrovalency; the catalytic activation of molecules and the reaction of ethylene and bromine. R. G: W. Norrish. diags Chem Soc J 123:3006-18 N '23
Theory of reaction rate. G. N. Lewis and D: F. Smith. Am Chem Soc J 47:1508-20 Je '25

ACTIVINE. See Chloramine T

ACTIVITY coefficients
Activities of strong electrolytes; a revision of the activity coefficients of potassium, sodium, and lithium chlorides, and potassium hydroxide. G: Scatchard. Am Chem Soc J 47:648-61 Mr '25
Activities of strong electrolytes; the activity of hydrochloric acid derived from the electromotive force of hydrogen-silver-chloride cells. G: Scatchard. diags Am Chem Soc J 47:641-8 Mr '25
Activities of strong electrolytes; the use of the flowing junction to study of the liquid-junction potential between dilute hydrochloric acid and saturated potassium chloride solutions; and the revision of some single-electrode potentials. G: Scatchard. diag Am Chem Soc J 47:696-709 Mr '25
Activity coefficient and ionic concentration product of water in sodium and potassium chloride solutions. H. S. Harned. Am Chem Soc J 47:930-40 Ap '25
Activity coefficient of potassium hydroxide in potassium chloride solutions. H. S. Harned. Am Chem Soc J 47:689-92 Mr '25
Activity coefficient of sodium hydroxide in aqueous solution. H. S. Harned. diag Am Chem Soc J 47:676-84 Mr '25
Activity coefficient of sodium hydroxide in sodium chloride solutions. H. S. Harned. Am Chem Soc J 47:684-9 Mr '25
Activity coefficients and transference numbers of the alkaline earth chlorides. W. W. Lucasse. diags Am Chem Soc J 47:743-54 Mr '25
Activity coefficients and transport number of solutions of hydrogen chloride in methyl alcohol. G. Nonhebel and H. Hartley. Philos Mag 6th ser 50:729-49 O '25
Activity coefficients of dilute aqueous solutions of hydrogen chloride, thallous chloride and lead nitrate. M. Randall and A. P. Vanselow. diags Am Chem Soc J 46:2418-37 N '24
Activity coefficients of hydrochloric acid in solutions of ethyl alcohol. H. S. Harned and M. H. Fleysher. Am Chem Soc J 47:82-92 Ja '25
Activity coefficients of ions in very dilute solutions. J. N. Brönsted and V: K. La Mer. diag Am Chem Soc J 46:555-73 Mr '24
Free energy of sulfuric acid in aqueous sulfate solutions. H. S. Harned and R. D. Sturgis. Am Chem Soc J 47:945-53 Ap '25

ACTUARIAL societies
Accomplishments and purposes of the actuarial societies. A. B. Wood. Spectator 113: 33-7 N 27 '24

See also American institute of actuaries

ACTUARIAL society of America
Actuarial society of America. J: S. Thompson. Spectator 113:75 sec 2 Jl 17 '24
Joint actuarial meeting. T: J. V. Cullen Spectator 113:3-4+ N 13 '24

ACWORTH, William Mitchell, 1850-1925
Influence of Sir William Acworth on railway policies abroad. Economist 100:1010-12 My 23 '25
Sketch. Engineer 139:410 Ap 10 '25; Engineering 119:456 Ap 10 '25

ACYL chlorides
Action of diazomethane on some aromatic acyl chlorides; synthesis of fisetol. M. Nierenstein, D. G. Wang and J. C. Warr. Am Chem Soc J 46:2551-5 N '24
Action of diazomethane on some aromatic acyl chlorides; the mechanism of the reaction. H. H. Lewis, M. Nierenstein and E. M. Rich. Am Chem Soc J 47:1728-32 Je '25

ACYL group
Role of weight of acyl in the migration from nitrogen to oxygen. L. C: Raiford and J: R. Couture. Am Chem Soc J 46:2305-18 O '24
Role of weight of acyl in the migration from nitrogen to oxygen. L. C: Raiford and C. E. Greider. Am Chem Soc J 46:430-7 F '24
Steric hindrance in the migration of acyl from nitrogen to oxygen. L. C: Raiford and C: M. Woolfolk. Am Chem Soc J 46:2246-55 O '24

ACYL group—*Continued*
Steric relations in the acylation of aromatic amines and aminophenols. L. C: Raiford, R. Taft and H. P. Lankelma. Am Chem Soc J 46:2051-7 S '24

ACYL halides
Reaction of bromine with aliphatic acids; catalytic effect of acyl halides. H. B. Watson. Chem Soc J 127:2067-82 S '25

ACYLCHLOROAMINES
Hydrolysis of acylchloroamines in water. F: G: Soper. Chem Soc J 127:98-102 Ja '25

ADALINE
Action of caustic alkali on α-bromo-α-ethylbutyrylcarbamide. G: Newbery. Chem Soc J 127:295-307 Ja '25

ADDING machines
Figuring pay rolls on adding machines. C. A. Jettinger. Inland Ptr 73:877-8 S '24

ADDITION compounds
Addition compounds of hydroquinone with aliphatic amines. R. N. Harger. Am Chem Soc J 46:2536-9 N '24
Addition of ethyl malonate to anils. E: J. Wayne and J. B. Cohen. Chem Soc J 127: 450-60 F '25
Addition products of methylethyl ketone with chloroform, bromoform and iodoform. J: B. Ekeley and C. J. Klemme. Am Chem Soc J 46:1252-4 My '24
Addition reactions of certain pentadienones. E. P. Kohler and R. W. Helmkamp. Am Chem Soc J 46:1018-24 Ap '24
Addition reactions of certain pentadienones; addition of malonic esters. E. P. Kohler and C. S. Dewey. Am Chem Soc J 46:1267-78 My '24
Addition reactions of the phosphorus halides; kinetic evidence in regard to the mechanism of the reaction. J. B. Conant and V. H. Wallingford. Am Chem Soc J 46:192-202 Ja '24
Additive compounds in the ternary system: ester—acid—water. J. Kendall and C. V: King. Chem Soc J 127:1778-91 Ag '25
Additive formation of four-membered rings. C. K. Ingold. Chem Soc J 125:87-102 Ja '24
Additive formation of four-membered rings; the addition of azo-compounds to ethylenes and some transformations of the dimethylene-1:2-di-imine ring. C. K. Ingold and S. D. Weaver. Chem Soc J 127:378-87 F '25
Additive formation of four-membered rings; the conditions which confer stability on the dimethinediazidines. C. K. Ingold and H. A. Piggott. Chem Soc J 123:2745-52 N '23
Additive formation of four-membered rings; the formation of stable dimethylene-1:2-oxaimines from ethylenes and nitroso-compounds, with special reference to the direction of the addition. C. K. Ingold and S. D. Weaver. Chem Soc J 125:1456-62 Jl '24
Additive formation of four-membered rings; the influence of temperature on the tendency towards self-addition of the nitroso-group. C. K. Ingold and H: A. Piggott. Chem Soc J 125:168-76 Ja '24
Additive formation of four-membered rings; the synthesis and division of some dimethylene-1:3-oxaimines. C. K. Ingold. Chem Soc J 127:1141-5 My '25
Blue adsorption compounds of iodine. G: Barger and F: J: Eaton. Chem Soc J 125:2407-14 N '24
Co-ordination of organic molecules. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 43: 218-21 F 29 '24
Correlation of additive reactions with tautomeric change; reversibility in relation to the stability of carbon chains. E. H. Ingold. Chem Soc J 125:435-8 F '24
Correlation of additive reactions with tautomeric change; the cyano-imino additive process. E. H. Ingold. Chem Soc J 125:1319-22 Je '24
Correlation of additive reactions with tautomeric change; the effect of polar conditions on reversibility. E. H. Ingold. Chem Soc J 127:469-75 F '25
Direct combination of ethylenic hydrocarbons with hydrogen sulphites. I. Kolker and A. Lapworth. Chem Soc J 127:307-15 F '25
Molecular attraction and molecular combination. O. Maass. J Fr Inst 198:152-7 Ag '24
Some addition reactions of phenyl benzoyl acetylene. E. P. Kohler and G. R. Barrett. Am Chem Soc J 46:747-53 Mr '24
Stability of additive compounds between esters and acids. J. Kendall and J. W. Booge. Chem Soc J 127:1768-77 Ag '25

ADDRESSING machines
Addressing machines. L. N. Boyd. il Credit M 27:16-17 Ap '25
Relieving the office grind. G: F. Lee. Credit M 26:18+ N '24

ADHESION
Adhesion between metal surfaces. Sauerwald and Jaenichen. Engineer 139:sup53-4 Ap 24 '25

ADHESIVES
Adhesives and adhesive action. J. W. McBain and D. G. Hopkins. J Phys Chem 29:188-204 F '25
Simultaneous production of pentosan adhesives and furfural from corncobs and oat hulls. F: B. LaForge. Ind & Eng Chem 16: 130-1 F '24
See also Binding materials; Cement; Glue; Mortar; Sodium silicate

ADIPIC acid
Studies in the configuration of αα'-dibromodibasic acids; derivatives of adipic acid. A. W. Bernton, H. R. Ing and W: H: Perkin, jr. diag Chem Soc J 125:1492-1502 Jl '24

ADIRONDACK power and light corporation
Adirondack power and light's future. P. W. Garrett. Elec W 84:1340+ D 20 '24

ADJUSTING machine
Adjusting machine for the blacksmith shop. il diag Ry Mech Eng 99:178-9 Mr '25

ADJUSTMENT bureaus
Adjustment manager. O. Livingston. Credit M 26:24+ N '24

ADMINISTRATION of estates. See Executors and administrators

ADOBE
Adobe construction. il diags Am Arch 127: 469-73 My 20 '25
Ancient and modern architecture in Santa Fe, N. M. il Am Arch 125:421-5 My 7 '24

ADOBE dust
Rocky Mountain men strike new note in dusting at their summer session. Coal Age 26:227-9 Ag 14 '24

ADSORPTION
Activated char for gold adsorption. R. H. McKee and P. M. Horton. Chem & Met Eng 32:164-7 Ja 26 '25
Adsorbent carbons for many industries. R. H. McKee and P. M. Horton. bibliog Chem & Met Eng 32:13-16 Ja 5 '25
Adsorption. A. V. Slater. Soc Chem Ind J (Chem & Ind) 43:1213 D 5 '24
Adsorption, a universal process. Soc Chem Ind J (Chem & Ind) 44:161-4 F 13 '25
Adsorption and Schulze's law. H. B. Weiser. J Phys Chem 29:955-65 Ag '25
Adsorption and surface tension at liquid-liquid interface. J. H. Mathews and A. J. Stamm. diag Am Chem Soc J 46:1071-9 My '24
Adsorption as applied to refining of petroleum products. H. L. Kauffman. Nat Pet N 16:55+ Ap 9; 133-4 Ap 16 '24; Same cond. Chem & Met Eng 30:153-6 Ja 28 '24
Adsorption by activated sugar charcoal; adsorbability of hydrogen and hydroxyl ions. E. J. Miller. Am Chem Soc J 47:1270-80 My '25
Adsorption by activated sugar charcoal; proof of hydrolytic adsorption. E. J. Miller. Am Chem Soc J 46:1150-8 My '24

ADSORPTION—*Continued*

Adsorption by activated sugar charcoal; the mechanics of adsorption. F. E. Bartell and E. J. Miller. J Phys Chem 28:992-1000 S '24

Adsorption by precipitates. H. B. Weiser. J Phys Chem 28:232-44, 1253-64 Mr, D '24

Adsorption forces and their electrical nature. B. Iliin. Philos Mag 6th ser 48:193-200 Jl '24

Adsorption from salt solutions by colloidal copper ferrocyanide. M. Frankert and J: A. Wilkinson. J Phys Chem 28:651-8 Je '24

Adsorption from solution by silica in varying degrees of dispersivity. D. C. Jones. J Phys Chem 29:326-35 Mr '25

Adsorption from the gas phase at a liquid-gas interface. T: Iredale. diags Philos Mag 6th ser 48:177-93; 49:603-27 Jl '24, Mr '25

Adsorption of arsenious acid by hydrous aluminum oxide. J: H. Yoe. Am Chem Soc J 46:2390-7 N '24

Adsorption of binary mixtures by animal charcoal and a comparative study of the adsorptive power of different varieties of charcoal. N. A. Yajnik and T. C. Rana. J Phys Chem 28:267-78 Mr '24

Adsorption of butane by silica gel. W. A. Patrick and J. S. Long. J Phys Chem 29: 336-43 Mr '25

Adsorption of catalytically poisonous metals by platinum; the adsorption of lead and mercury. E: B. Maxted. Chem Soc J 127:73-7 Ja '25

Adsorption of dyes by soils. J. A. Wilkinson and W. Hoff. J Phys Chem 29:808-15 Jl '25

Adsorption of gases by graphitic carbon. H. H. Lowry and S. O. Morgan. diag J Phys Chem 29:1105-15 S '25

Adsorption of metals by charcoal. Chem & Met Eng 32:451-2 Ap '25

Adsorption of nitrogen peroxide by silica gel. R. C. Ray. diags J Phys Chem 29:74-86 Ja '25

Adsorption of silver salts by silver iodide. J: S. Beekley and H. S. Taylor. J Phys Chem 29:942-54 Ag '25

Adsorption of some vapors by alumina gel. J. H. Perry. J Phys Chem 29:1462-8 N '25

Adsorption of vapors by alumina. L. A. Munro and F. M. G. Johnson. Ind & Eng Chem 17:88-92 Ja '25

Adsorption of vapors by charcoal. A. S. Coolidge. diag Am Chem Soc J 46:596-627 Mr '24

Adsorption of vapors by metallic oxides—its bearing on the catalysis of ester formation. J. N. Pearce and A. M. Alvarado. diag J Phys Chem 29:256-70 Mr '25

Adsorption of vapors by silica gel by a dynamic method. W. A. Patrick and L. H. Opdycke. diags J Phys Chem 29:601-9 My '25

Adsorption of water from the gas phase on plane surfaces of glass and platinum. I. R. McHaffie and S. Lenher. diag Chem Soc J 127:1559-72 Jl '25

Adsorptive capacity of wood charcoal for dissolved substances, in relation to the temperature of carbonisation. J. C. Philip and J: Jarman. J Phys Chem 28:346-50 Ap '24

Anomalous adsorption of dyes by wool and cotton. J: B. Speakman and A. E. Battye. Textile Inst J 16:T53-60 F '25; Same. Color Tr J 16:102-5 Ap '25

Behavior of silica gel towards certain alkalies and salts in aqueous solution. W. A. Patrick and E. H. Barclay. J Phys Chem 29:1400-5 N '25

Blue adsorption compounds of iodine. G: Barger and F: J: Eaton. Chem Soc J 125: 2407-14 N '24

Capillary theory of adsorption from solution. W. A. Patrick. Am Inst Chem Eng Trans v 15 pt 1:283-92; Discussion. 292-4 '23

Comparison of solid adsorbents proposed for benzol recovery. W. H. Hoffert. diag Soc Chem Ind J 44:357-66 Jl 17 '25

Cryoscopic method for adsorption. H: L. Richardson and P. W. Robertson. Chem Soc J 127:553-6 Mr '25

Effect of hydrogen-ion concentration on compound formation and adsorption of dyes by mordants. R. E. Marker and N. E. Gordon. Ind & Eng Chem 16:1186-8 N '24

Electrolysis of soda-lime glass; evolution of gas and its relation to sorption and conductivity. J. W. Rebbeck and J. B. Ferguson. diags Am Chem Soc J 46:1991-2002 S '24

Electron emission from adsorbed films on tungsten. K. H. Kingdon. Phys R 24:510-22 N '24

Influence of adsorption on the colour of sols and of precipitates. N. R. Dhar. J Phys Chem 29:1394-9 N '25

Interaction of carbon dioxide and hydrogen on the surface of tungsten. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 127: 1546-52 Jl '25

Interaction of hydrogen and carbon dioxide on the surface of platinum. C: R. Prichard and C. N. Hinshelwood. diag Chem Soc J 127:806-11 Ap '25

Monomolecular films on water; the oriented adsorption of derivatives of benzene. W: D. Harkins and E. H. Grafton. Am Chem Soc J 47:1329-35 My '25

New class of activated carbons; alkaline impregnated chars, peculiarly adapted for metal adsorption. R. H. McKee and P. M. Horton. Chem & Met Eng 32:56-9 Ja 12 '25

New type of silica gel. H. N. Holmes and J. A. Anderson. Ind & Eng Chem 17:280-2 Mr '25

Optical inactivity of the active sugars in the adsorbed state:—a contribution to the chemical theory of adsorption. S. S. Bhatnagar and D. L. Shrivastava. J Phys Chem 28: 730-43 Jl '24

Optically active dyes; adsorption, absorption spectra and rotation. W. R. Brode and R. Adams. Am Chem Soc J 46:2032-43 S '24

Organic reactions at the surface of titania; adsorption of certain gases by titania. F. Bischoff and H. Adkins. Am Chem Soc J 47:807-26 Mr '25

Practical results of the theoretical development of chemistry. F. Haber. J Fr Inst 199:437-56 Ap '25

Promoting action of palladium on copper; the adsorption of hydrogen and carbon monoxide. W: W. Hurst and E. K. Rideal. diag Chem Soc J 125:694-705 Mr '24

Properties of activated carbon which determine its industrial applications. N. K. Chaney, A. B. Ray and A. St John. Am Inst Chem Eng Trans v 15 pt 1:309-46 '23

Recovery of nitrogen oxides from gas mixtures by adsorption on silica gel. J. A. Almquist, V. L. Gaddy and J. M. Braham. diags Ind & Eng Chem 17:599-603 Je '25

Reducing action of hydrogen adsorbed in silica gel. M. Latshaw and L. H. Reyerson. Am Chem Soc J 47:610-12 Mr '25

Relation between dye adsorption of clays and their behavior in rubber compounds. H. R. Thies. Ind & Eng Chem 17:1165-9 N '25

Removal of gas films. W. D. Bancroft. J Phys Chem 29:20-33 Ja '25

Second report of the committee on contact catalysis; adsorption and catalysis. W. D. Bancroft. J Phys Chem 27:801-14 D '23; Same. (Reprint & Circ. Ser. 50) p 801-14 50c National research council, 1701 Massachusetts av, Washington, D.C.

Silica gel as an industrial adsorbent. E. C. Williams. il diags Soc Chem Ind J 43:97-112 Ap 18 '24; Abstract. Engineering 117:622-3 My 9 '24

Some aspects of adsorption. F. G. Donnan. Soc Dyers & Col J 41:206-7 Je '25

Sorption of ammonia and carbon dioxide by glass. D. H. Bangham and F. P. Burt. J Phys Chem 29:113-29 F '25

Sorption of nitrous oxide and sulphur dioxide by glass. D. H. Bangham and F. P. Burt. J Phys Chem 29:540-50 My '25

Sorption of toluene and acetic acid and their mixtures by carbon. A. M. Bakr and J. W. McBain. Am Chem Soc J 46:2718-25 D '24

ADSORPTION—*Continued*
Structure of films of water on salt solutions; surface tension and adsorption for aqueous solutions of sodium chloride. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:2083-9 Ag '25
Studies in adsorption. S. Ghosh and N. R. Dhar. J Phys Chem 29:435-61 Ap '25
Studies in adsorption. K. C. Sen, P. B. Ganguly and N. R. Dhar. J Phys Chem 28:313-32 Ap '24
Studies in adsorption; a new interpretation of the Schulze-Hardy law and the importance of adsorption in the charge reversal of colloids. N. R. Dhar, K. C. Sen and S. Ghosh. J Phys Chem 28:457-74 My '24
Studies in adsorption; influence of ions carrying the same charge as the sol on the coagulation of sols of (i) prussian blue and of (ii) positive ferric hydroxide. S. Ghosh and N. R. Dhar. J Phys Chem 29:659-78 Je '25
Studies in the adsorption from solution from the standpoint of capillarity. W. A. Patrick, D. C. Jones and N. F. Eberman. J Phys Chem 29:1-10, 220-8 Ja-F '25
Study of adsorption phenomena in the vicinity of the critical temperature. W. A. Patrick, W. C. Preston and A. E. Owens. J Phys Chem 29:421-34 Ap '25
Surface action in the chemical and petroleum industries. Chem Age (Lond) 9:656-7 D 15 '23
Third report of the committee on contact catalysis. H. S. Taylor. J Phys Chem 28:897-942 S '24; Same. (Reprint and Circ. Ser. 59) p 897-942 50c National research council, 1701 Massachusetts av., Washington, D.C. '24
Upper limit for the thickness of the adsorption layer on silica. D. C. Jones. J Phys Chem 29:369-75 Ap '25

See also Decolorization

ADSORPTION, Heat of
Heat of adsorption of oxygen by charcoal. E. A. Blench and W: E: Garner. il Chem Soc J 125:1288-95 Je '24
Heats of adsorption of sulfur dioxide and of water vapor by silica gel at 0°C. W. A. **Patrick and C. E. Greider. diags J Phys** Chem 29:1031-9 Ag '25
Rapid method for the determination of heats of adsorption and some values for hydrogen on nickel and copper. R. A. Beebe and H. S. Taylor. diag Am Chem Soc J 46:43-52 Ja '24

ADULTERATION
Pioneer in pure foods and drugs; Lewis C. Beck. L. F. Kebler. Ind & Eng Chem 16: 968-70 S '24

See also Fertilizers—Laws and regulations; Food adulteration

ADVANCE-RUMELY company
Annual report, 9th, for year ending December 31, 1924. Comm & Fin Chr 120:1634-5 Mr 28 '25

ADVERTISEMENTS
Advertising analyzed. Published in monthly numbers of Printed salesmanship
Farm-paper advertisements that get attention—and why. R. G. Gardner. Ptd Salesmanship 45:259-61 My '25
How to read an advertisement. D. M. Jones. Ptr Ink M 9:36-8+ O '24
Printer's own advertising. W: A. Kittredge. il Ptd Salesmanship 45:447-51 Jl '25
Telepathy in advertising. A. W. Wood. Gas J (Lond) sup 4:222-4; Discussion. 224 O 28 '25
There are some pretty terrible wastes in advertising—. B. Avery. il Ptr Ink M 11:37-9 N '25
Twenty-five varieties of printed salesmanship. H. N. Casson. Ptd Salesmanship 45:539-41 Ag '25
Twenty kinds of contrasts. R: Surrey. Ptr Ink 132:25-6+ S 10 '25
When in America do not as the Romans do. C. T. Hubbard. il Ptg Art 45:135-8 Ap '25

See also Advertising; Almanacs; Billboards; Blotters; Broadsides (advertisements); Catalogs; Copyright; Labels; Posters; Show cards

Adventure appeal
Overlooked appeal of adventure. J. H. Collins. Ptr Ink M 9:21-2+ D '24

Arrangement
Why not adopt the pyramid makeup? S. J. Harris. il Inland Ptr 73:715-17 Ag '24

Books and booklets
Annual statement as advertising. Ptr Ink M 8:76+ Je '24
Are you getting sales energy in your booklet covers? W. L. Larned. Ptr Ink M 10: 94+ Mr '25
Asking the consumer to share advertising costs. Ptr Ink 132:65-6 Jl 16 '25
Booklet with a building block supplement. Ptr Ink M 10:128+ My '25
Booklets that don't smother them with words. C. B. Larrabee. Ptr Ink M 11:23-4+ O '25
Brochures; specimens. Inland Ptr 75:912a-h S '25
Capitalizing a fifty-year-old advertising policy; Rogers Peet company. C: G. Muller. Ptr Ink M 9:136+ N '24
Consumer booklet increases range of dealer's stock. Ptr Ink 132:25-6+ Jl 16 '25
Design in relation to product as shown in French booklets. W: A. Kittredge. il Ptr Ink M 11:26-7+ S '25
Direction advertising or advice advertising? Ptr Ink M 10:86+ F '25
Do you make booklets on a footage basis? C. B. Larrabee. Ptr Ink M 10:21-3 Mr '25
Do your booklets have octagonal themes? B. F. Berfield. Ptr Ink 131:93-4+ My 28 '25
Does "write for booklet" hinder or help inquiries? B. A. Grimes. Ptr Ink M 11:63-4+ N '25
Easy start is not always a good beginning. C. B. Larrabee. Ptr Ink 130:88+ F 26 '25
Farmer instruction books that adver[illegible] well as instruct. R. Yarnell. Ptr [illegible] 58+ O '24
Getting prospects past the cover of the booklet. W. L. Larned. Ptr Ink 129:53-4+ O 16 '24
Gift-booklet idea in advertising. R. F. Saladé. Ptg Art 42:357-9 D '23
Giving an old campaign new life. Ptr Ink M 8:88+ My '24
How British railways use booklet advertising. B. F. Berfield. il Ptr Ink M 10:35-7+ Je '25
How English advertisers use poster techniques in booklets and folders. W: A. Kittredge. Ptr Ink M 11:25-6+ Ag '25
How the Seng company interests dealers in something they do not buy from it. J. L. Frazier. Ptr Ink 128:61-2+ N 29 '23
How you can use a history in your business. J: A. Murphy. il Ptr Ink M 9:27-8+ S '24
Local history as a sales builder. R. F. Salade. Ptg Art 44:453-6 Ja '25
Making a good booklet page. D. Gridley. Ptr Ink M 10:25-7+ Ja '25
Making stockholders friends of a corporation. R. Bartholomew. il diag map Ptg Art 44: 461-9 Ja '25
Making the testimonial booklet. D. Gridley. Ptr Ink M 9:23-6 D '24
Poster strength on the booklet cover. I. J. Ketterer. il Ptg Art 42:337-41 D '23
Postum makes the annual report a sales booklet. Ptr Ink M 10:51 Ap '25
Should the advertising booklet be sold to consumers? Ptr Ink 126:26-7+ Ja 10 '24
Springing a surprise in the booklet. W. L. Larned. Ptr Ink 127:53-4 My 15 '24
Take a tip from the Rover boys. D. Gridley. Ptr Ink 132:49-50+ S 3 '25
Taking up the slack between the inquiry and the sale; using the story-telling idea in booklets. Sales Management 7:1233-4 Jl '24

ADVERTISEMENTS—Books and booklets —*Continued*
This book lifted our advertising out of the rut. B. Douglas. il Sales Management 6: 1097-8 Je '24
Unselfish booklets that close gap between advertiser and prospect. C. B. Larrabee. il Ptr Ink M 9:21-3+ S '24
Waking up the small town retailer. A. W. Rucker. il Sales Management 8:239-40 F 7 '25
What should be on the booklet cover? C. B. Larrabee. il Ptr Ink M 9:22-5 N '24
What should go into the goodwill booklet? D. M. Hubbard. il Ptr Ink M 9:34-6+ Ag '24

See also Advertisements—Cook books and recipes; Catalogs

Borders

Building the product into the copy. W. L. Larned. il Ptr Ink M 8:39-40 My '24
Using the product as the border in technical copy. Ptr Ink 129:33-4+ N 27 '24

Charts

Dry-as-dust charts vs. the other kind. D. Gridley. Ptr Ink 129:53-4+ D 11 '24

Cook books and recipes

Even sugar has its cook book. Ptr Ink 132: 143-4 Ag 27 '25
Too many recipe books? N. Lewis. Ptr Ink 131:105-6 Ap 9 '25
What should go in the recipe booklet besides recipes? B. F. Berfield. Ptr Ink 132:41-2+ S 10 '25
Will the title be a pervenche or a periwinkle? B. F. Berfield. Ptr Ink 133:107-8 O 15 '25

Copy

Advertising a product's faults as well as its virtues. J: A. Murphy. Ptr Ink M 11:43-4 Jl '25
Advertising copy. G: B. Hotchkiss. 471p Harper '24
After all, isn't there too much rationality in advertising copy? M. H. Spear. Ptr Ink 127: 97-8 Ap 17 '24
Appeals in advertising. M. W. Lee. W Soc E J 30:[current news]29-30 F '25
Askitus—an advertising malady. C. T. Hubbard. Ptr Ink 131:44+ Je 4 '25
Big blue pencil. E. St E. Lewis. Inland Ptr 75:567 Jl '25
Black coffee vs. hard work in writing copy that sparks. C: J. Savage. Ptr Ink M 9:70+ Ag '24
Boy, page Mr. Munchausen! A. Rucker. Sales Management 9:279-80 S 5 '25
Brevity—what for? A. H. Little. Ptr Ink 132: 17-20 Ag 27 '25
Brisbane gives advertising advice. Ptr Ink 129:149+ N 27 '24
Brown derby entries for the advertising dictionary. S. Hopper. Ptr Ink 127:53-4+ My 8 '24
Buying motives for industrial goods. M. T. Copeland. Harvard Business R 2:303-18 Ap '24
The chuckle in—and at—advertising copy. J. H. Collins. Ptr Ink M 10:126+ Mr '25
Colorful words. R. Dickinson. Ptr Ink 129: 57-8+ O 9 '24
Consumers' buying motives. M. T. Copeland. Harvard Business R 2:139-53 Ja '24
Copy that overcomes buyers' inertia. H. K. Hollister. Ptr Ink 128:154+ S 25 '24
Copy writers with the poet's cast of mind. R: Surrey. Ptr Ink 131:133-4+ Ap 30 '25
Customer's point of view. H. N. Casson. Ptg Art 44:135-6 O '24
The dare type of appeal to drive home essential facts. J: L. Love. Ptr Ink 128:89+ Ag 7 '24
Department-store copy begins to take a new tack. Ptr Ink 132:123-4 Jl 9 '25
Determining the kind of advertising that sells best. R. Cole. il Ptr Ink M 9:30-2+ S '24
Development of a copy style. G: B. Hotchkiss. Ptr Ink 127:146+ Je 5 '24
Do advertising managers stay too close to their desks? R. Crothers. Ptr Ink 126:25-6+ F 14 '24
Does hob-nailed copy pay? R: Surrey. Ptr Ink 127:25-6+ My 1 '24
Does the first paragraph fulfill the promise of the headlines? W. L. Larned. Ptr Ink 128: 213+ S 18 '24
Does your copy soar above the heads of its readers? E. Wolff. Ptr Ink 128:177-8 S 18 '24
Don't aim your copy at Don Quixote. A. Leffingwell. Ptr Ink 130:109-10 Ja 22 '25
Don't press too hard in copy writing. J. Calvin. Ptr Ink 132:85-6+ S 17 '25
Effective selling material from government reports. Ptr Ink 130:129-30+ Ja 22 '25
Eliminate the Dodgson manner from your copy. C. B. Larrabee. Ptr Ink 129:53-4+ D 25 '24
Enthusiastic selling by the printed word. J: L. Love. Ptg Art 13:525-8 Ag '24
Exclamation point goes on a tear. W. L. Larned. Ptr Ink 127:49-50+ Je 12 '24
Fine art of description. H. N. Casson. Ptg Art 43:519-21 Ag '24
Five studies on advertisement writing. 5v Business-craft studies, Danville, Ill. '23
Folk words vs. book words in advertising. R: Surrey. Ptr Ink 130:109+ Mr 26 '25
Full-page newspaper advertising to reach one prospect; the Ward electric company. Ptr Ink 125:49-50 N 8 '23
Fussy client who insists on touching up the copy. C. Bold, pseud. Sales Management 6:507-8 F '24
Golf's great debt to advertising. W. L. Larned. il Ptr Ink M 11:24-6 Jl '25
Hammering brass tacks into flaccid copy. R: Surrey. Ptr Ink 131:61-2+ Je 11 '25
Handling the names of celebrities with decorum. A. L. Townsend. Ptr Ink 129:96-8 D 4 '24
How about some vitamines in your copy? T: F. Walsh. Ptr Ink M 11:48+ Ag '25
How an advertised cat put Sam Ashley on the road to prosperity. R. Rockafellow. Ptr Ink 126:141-2+ Mr 6 '24
How do you talk to plain folks? A. Bradbury. Ptr Ink 126:3-4+ Ja 24 '24
How important is "the idea" in advertising? E. Gilbert. Ptr Ink M 10:46+ Ap '25
How many angles should a piece of copy have? R. Crothers. Ptr Ink 132:143-4+ Jl 9 '25
How much horsepower has an automobile advertisement? K. M. Goode. Sales Management 7:1449-50+ S '24
How shall we make the words we need? A. Bradbury. Ptr Ink 131:69-70+ Ap 16 '25
How shall we say it, in the style of Washington Irving or Michael Arlen? A. Bradbury. Ptr Ink 129:70+ D 18 '24
How to make advertising effective. H. N. Casson. il Ptd Salesmanship 45:339-41 Je '25
How to write advertisements. C. E. Miller. 315p [bibliog. p. 312-13] Hutchinson & co., London '24
How to write advertising. H. A. Barton. 275p Lippincott '25
Importance of achieving a copy style. J. Wallen. Ptr Ink 125:125-6+ D 27 '23
Importance of mental movies. W. M. Barrow. Ptr Ink 129:87-8+ N 13 '24
Injecting speed into copy. R. Surrey. Ptr Ink 128:93-4+ Ag 28 '24
Insurgent advertising. P. Sartorus. Ptr Ink M 10:80+ Ja '25
Intellectual high diver makes a poor copy writer. W: E. Cameron. Ptr Ink 133:116+ O 29 '25
It's an ill wind that can't be advertised. D. Hubbard. Ptr Ink 130:112+ Mr 12 '25
Jigger or goon—who writes your copy? A. H. Little. Ptr Ink M 9:41-2+ Jl '24
Language of advertising. J: B. Opdycke. 494p Pitman '25
The last word in copy; is it ever said? R: Surrey. il Ptr Ink M 9:45-6+ N '24
Let your field investigators get copy material. C. E. Haring. Ptr Ink 130:25-6 Ja 29 '25

ADVERTISEMENTS—Copy—*Continued*
Let's forget the perpendicular pronoun in criticising copy. M. Droke. Ptg Art 44: 369-70 D '24
Lining up the sales arguments 1-2-3. W. H. Heath. il Ptr Ink 127:17-19 Je 12 '24
Making romantic advertising bring practical results. Ptr Ink 132:117+ Jl 30 '25
Man behind the copy that sells the goods. C: M. Horton. Ptg Art 42:360-2 D''23
Must all copy writers end every word with e-s-t? J. B. Gray. Ptd Salesmanship 46: 273-4 N '25
Need of specific copy. R. Dickinson. Ptr Ink 132:17-20 Jl 30 '25
"New"; a most important word in present-day advertising. A. L. Townsend. Ptr Ink 126:89-90+ Mr 20 '24
New science of persuasion. Comm & Fin 14: 375-6 F 25 '25
New twists to old words. R: Surrey. Ptr Ink M 9:17-18+ Ag '24
Newspaper advertisements that lure the reader. R. G. Gardner. Ptg Art 43:449-51 Jl '24
No glittering copy generalities for General Electric. W. L. Larned. Ptr Ink 132:25-6+ S 17 '25
On the inside looking in. S. K. Wilson. Ptr Ink 133:10+ O 1 '25
Once again: "How long should the copy be?" D. M. Jones. Ptr Ink 127:49-50 My 29 '24
The 1-2-3 idea in copy. D. Gridley. Ptr Ink M 10:38-9+ Ap '25
Our clearing-house for ideas. J. R. Ozanne. System 46:741-2+ D '24
Painting with the magic pigment of words. W. L. Larned. Ptr Ink 131:153-4+ My 28 '25
Paragraph as you please. A. H. Little. Ptr Ink 132:49-50+ S 24 '25
Parent of golden dreams—romance. A. H. Little. Ptr Ink 126:181+ Mr 6 '24
Personalized advertising. N. M. Sweet. Ptg Art 44:573-6 F '25
Pertinent advertising ideas. Sanitary & Heat Eng 102:408; 103:5 D 12 '24, Ja 9 '25
Pistol-shot copy leads. W. L. Larned. Ptr Ink 132:25-6+ Ag 13 '25
Power of words. A. Stote. Ptr Ink M 9:41-2+ O '24
Preliminary analysis of the advertising possibilities of a product. Harvard Business R 4:111-21 O '25
Put a vital spark in that humdrum product. Ptr Ink 127:17-18 My 8 '24
Put those statistics into pictures. W. L. Larned. Ptr Ink 129:79-80+ D 25 '24
Quick copy shifts that checkmate sudden market changes. Ptr Ink 130:81-2 Ja 15 '25
Really now, is copy read? R. Bartholomew. il Ptd Salesmanship 46:243-6; Reply. C: A. Bates. 247-50 N '25
Reducing sales arguments to the one best talking point. J: A. Murphy. Ptr Ink M 9: 29-30+ O '24
Roll your own vocabulary. R: Surrey. Ptr Ink 130:101-2+ Ja 15 '25
Salesmen's demonstrations that make industrial copy. W. H. Heath. Ptr Ink 130: 93-4+ Ja 8 '25
Sam Dellingham writes an advertisement. R. Dickinson. Ptr Ink 126:33-4+ F 21 '24
Shall advertising walk in stocking feet or hob-nailed boots? R. Giles. Ptr Ink 127:17-20 Ap 10 '24
Short sentences are best. L. St Clair. Aera 12:1947-50 Je '24
Similes, slang and slogans. L. Markel. Ptr Ink 126:10+ Ja 17 '24
Some flies in the standardization cream jug. C. Bold. Sales Management 8:533+ Ap 4 '25
Some fruits of solitude. E: Harrison. Ptr Ink 128:129-30 Ag 21 '24
Splitting up the campaign's copy appeal to reach specific classes. A. L. Townsend. Ptr Ink 129:143-4+ N 13 '24
Story-tellers' club in business-paper advertising. W. L. Larned. Ptr Ink M 8:35+ Mr '24
Strength of restraint in advertising. A. H. Deute. Ptr Ink 130:77-8+ Mr 5 '25
Stubbing your toe and finding hidden selling ideas. W: G. Clifford. Sales Management 7:1849-50 D '24
Swaddled meaning in copy. R: Surrey. Ptr Ink 125:61-2+ N 15 '23
Swat 'em hard vs. seduction in copy. R. H. Isbell. Ptr Ink M 10:36-7 Mr '25
Take a tip from Tchekhoff. R: Surrey. Ptr Ink 127:77-8+ My 29 '24; Excerpts. Automotive Ind 50:1274-5 Je 12 '24
Take another look; good advertising a matter of good judgment, impatient of precedent, unhampered by rules. T: Henry. Ptr Ink 127:33-4 My 22 '24
Technique of copy writing. H. N. Casson. Ptg Art 43:127-9 Ap '24
Ten points to remember when you write an ad. Sanitary & Heat Eng 101:307 My 16 '24
Territorial advertiser goes after a broader market; Bayuk cigars, inc. Ptr Ink 131:125-6 Ap 30 '25
Three essentials of good copy. Ptr Ink 129: 138+ N 27 '24
To make advertising technically accurate; how bureaus and laboratories of the U.S. government are working. Ptr Ink 132:53-4+ Jl 30 '25
Tone down the shout in direct-mail. R: Surrey. Ptr Ink 130:129-31 Ja 29 '25
Touch of analogy that brings conviction. K. B. White. il Ptr Ink M 9:39-40 Ag '24
Two-minute lesson in copy writing. F. B. Frazee. Ptr Ink 131:72 Je 4 '25
Unfurnished rooms of advertising copy. A. R. Hopper. Ptr Ink M 9:82+ S '24
Using facts as bait in small copy. R: Surrey. Ptr Ink 128:79-80+ Ag 21 '24
Wanted—more three-letter words. H. M. Bourne. Ptr Ink 131:53-4+ My 7 '25
Way to cash in on sport interest. D. Hubbard. Ptr Ink 128:108+ Jl 3 '24
What copy should the package carry? K. B. White. il Ptr Ink M 9:40-2+ S '24
What the retail clerk can tell the copy writer. R. Branner. Ptr Ink 128:69-70+ Jl 3 '24
What's the energy value of this copy? B: Jefferson. Ptr Ink 127:61-2+ My 15 '24
When Billy Sunday's didoes invade so many advertising pages. E. Whitmore. il Sales Management 9:583-4 O 31 '25
When the copy writer turns ventriloquist. W. L. Larned. Ptr Ink 126:105-6+ Ja 3 '24
Wherein the hammer is used; elemental appeals in advertising. H. Botsford. Ptg Art 43:446-8 Jl '24
Which advertising viewpoint—get-rich-quick or 6 per cent and safety? R. Giles. Ptr Ink 128:3-4+ Jl 10 '24
Whoa, Pegasus! A. H. Little. Ptr Ink 131:25-6+ Ap 23 '25
Why I think most ads are poor. W. M. Kiplinger. Ptg Art 42:223-8 N '23
Why pick on the poor copy writer? C: S. Knapp. Ptr Ink 133:34+ O 22 '25
Why Woodbury uses the same appeal after 15 years. G. Kinney. Ptr Ink 129:117-18 O 16 '24
Wild words and wilder dreams—and some not wild at all. E. Whitmore. Sales Management 9:415-16+ O 3 '25
Word sources that strengthen copy uses. L. R. Alwood. Ptr Ink 128:104+ S 4 '24
Words that fit like gloves. A. L. Townsend. Ptr Ink 133:195-6 O 8 '25
Words vs. ideas in copy. E. Wolff. Ptr Ink M 10:112+ Ap '25
Worked-out claims that produce new pay-streaks. A. L. Townsend. Ptr Ink 129:25-6+ O 2 '24
You and de audience all mixed up togedder. L. Mackall. Ptr Ink 128:25-6+ Jl 31 '24

See also Advertisements—Testing; Advertisements, Humorous; Advertisements, Pictorial; Trade marks—Advertising

Copy writers

See Advertising men

Copyright

See Copyright—Advertisements

ADVERTISEMENTS—*Continued*

Coupons

Coupons that pull. S. P. Moore. il Ptr Ink M 8:36-7 My '24
Give the coupon a chance. A. L. Townsend. Ptr Ink 131:141-2+ Ap 9 '25
Increasing direct advertising returns. F. McNaughton, p 148-99 Selling aid, 1304 Jackson blvd., Chicago '23
Lucky Strike advertises new sampling idea. Ptr Ink 125:99-100 N 8 '23
No obligation on your part. A. Bradbury. Ptr Ink 132:10+ S 10 '25; Discussion. M. Droke. 133:19-20 O 1 '25
To whom shall the coupon be addressed? Ptr Ink M 11:44 Jl '25
We gave second youth to an old line. H. H. Riddleberger. Ptr Ink 132:17-19 S 3 '25
When coupons in Wisconsin newspapers are unlawful. Ptr Ink 126:138 Mr 6 '24

Cross word puzzles

Advertised cross-word puzzle brings 17,000 solutions. Ptr Ink 131:64+ Ap 30 '25
Getting the crossword fan. W: Dings. Aera 13:1489-95 Ap '25
What's a six letter word meaning—? T: F. Walsh. il Ptr Ink M 10:33-4+ Ja '25

Dealer helps

See Advertising—Dealer helps

Design

See Advertisements—Typography; Advertisements, Pictorial

Durability appeal

Length of service as an illustrative theme. E. H. Rowe. Ptr Ink 125:97-8+ D 13 '23
This is a typical incident—. E. B. Weiss. Ptr Ink M 9:29-30 Ag '24

Emotional appeal

Emotional appeal. T. G. Atkinson. Ptg Art 45:139-42 Ap '25
Offer of too much service may prove a boomerang. J. R. Sprague. Ptr Ink 128:110+ Ag 21 '24
Tragedian strides across the advertising stage. W. L. Larned. Ptr Ink 133:145-6+ O 15 '25

See also Advertisements—Human interest appeal

Exhibits

See Advertising—Exhibitions

Geographical interest

Capitalizing on the public's globe-trotting aspirations; Arm-chair voyages. A. L. Townsend. Ptr Ink 127:180+ Je 26 '24

Gift appeal

Why limit your gift season to Christmas? E. B. Weiss. Ptr Ink M 10:48+ Mr '25

See also Christmas gifts—Advertising

Headlines

Breaking the headline without sacrifice of clarity. Ptr Ink 125:33-4+ D 13 '23
Getting ahead with headlines. H. B. Winsor. Bankers M 109:593+ O '24
Has your headline a picture in it? W. L. Larned. Ptr Ink 133:33-4+ O 1 '25
Headlines with a double meaning. W. L. Larned. Ptr Ink 129:143+ O 2 '24
Making a line of lettering sing. W. L. Larned. Ptr Ink 127:33-4 Je 26 '24
Making headlines spectacular by use of the vernacular of the day. W. L. Larned. Ptr Ink 126:33-4 F 28 '24
One-word headlines that tell a complete story. A. L. Townsend. Ptr Ink 130:41-2+ Ja 29 '25
Proverbs and epigrams as headline material. A. L. Townsend. Ptr Ink 130:85-6 Mr 19 '25
Putting the selling appeal in the headline. J: L. Love. Ptg Art 42:245-51 N '23
Sense and nonsense in headline questions. H. K. Hollister. Ptr Ink 127:129-30+ Je 12 '24
Slices of attention carved with question marks. R: Surrey. Ptr Ink M 9:21-3+ O '24
Technique of writing head-lines. H. N. Casson. Ptg Art 43:327-9 Je '24
There's a picture in every headline. Ptr Ink 131:81-2+ My 7 '25
Throwing 'em a scare in the headline. W. L. Larned. Ptr Ink 130:73-4+ Ja 1 '25
Unique methods of arranging the headline. W. L. Larned. Ptr Ink 129:33-4+ O 30 '24
Writing nifties into headlines. A. L. Townsend. Ptr Ink 128:64+ Jl 10 '24

Health appeal

Knox advertises medical value of gelatine to both physicians and consumers. C. B. Larrabee. Ptr Ink 126:61-2+ Mr 13 '24

Historical interest

Getting under the skin of the critical industrial prospect; Tide Water campaign. J. T. Jones. Ptr Ink M 8:90+ Ja '24
Historical campaign that appeals to children as well as grown-ups. H: Burwen. Ptr Ink 125:150-1 N 15 '23
Local history as a sales builder. R. F. Salade. Ptg Art 44:453-6 Ja '25
Must department store copy always feature bargains? Ptr Ink 132:10+ Jl 2 '25
Pamphlet series linking historical incidents to the product; Hartford steam boiler inspection and insurance company. Ptr Ink M 11:82+ Ag '25
Pittsburgh water heater combines humorous and historical copy. R. Davis. Ptr Ink 126:98-100 F 28 '24
Roofing manufacturer goes to history for campaign's theme. Ptr Ink 126:33-4 F 14 '24
Walworth uses King John to sell valves to John King. W. C. Mattox. Ptr Ink 132:105-6+ Jl 2 '25
When you need historical data on American cities; S. W. Straus and co. advertising. Ptr Ink 133:105-6+ O 1 '25

Human interest appeal

Advertising that gets its readers to talk about it; Simonds saw and steel co. M. Hastings, jr. Ptr Ink M 9:37+ S '24
Be yourself! C: Pelham. Ptr Ink 131:25-6+ Ap 9 '25
Heart-appeal copy scores again. R. Cole. Ptr Ink 132:128-9+ Ag 20 '25
Homely advertising that has built business for Washington tinsmith. G: H. Dacy. il Ptr Ink M 8:120+ F '24
Homely copy that strikes home. A. L. Townsend. Ptr Ink 130:133-4+ F 5 '25
How plant management influences the sales department. G. A. Nichols. Ptr Ink M 8:37-8+ Ja '24
How Starrett and other industrial advertisers get effective illustrations. Ptr Ink 126:133-4+ Mr 6 '24
Human interest in advertising. C: M. Horton. Ptg Art 44:266-8 N '24
Industry begins to tell 'em a story. R. Cole. Ptr Ink M 11:31-2+ O '25
Little pictorial touches which tug at the heart strings. T. L. Larned. Ptr Ink 129:57-8+ D 18 '24
Making the advertising man see the customer's viewpoint. E. St E. Lewis. Am Ind 25:44-5 My '25
Slide rule copy vs. human interest in direct mail. D: H. Colcord. il Sales Management 7:1783-4+ N '24
Some possibilities of the child appeal. W. L. Larned. Ptr Ink 128:69-70+ S 25 '24
When employees double in advertising copy. D. Hubbard. Ptr Ink 130:81-2+ Mr 26 '25
When to put personality into advertising. Ptr Ink 128:125-6 Ag 21 '24
Why fear the critics? C. W. Garrison. Ptr Ink 130:162+ F 12 '25

Illustrations

See Advertisements, Pictorial

Keying

How export letters are keyed. Ptr Ink 131:69-70+ Ap 23 '25

ADVERTISEMENTS—*Continued*

Layout

See Advertisements—Typography

Listing of dealers

Listing names of local dealers in newspaper copy. Ptr Ink 131:132+ Je 18 '25
Way to list dealers in an advertisement. Ptr Ink 128:84 Jl 24 '24

Local pride appeal

Columbus, Ohio, banks answer Florida's challenge. Ptr Ink 132:20 S 3 '25
Getting local flavor in business-paper copy. Ptr Ink 128:105-6 Jl 31 '24
Katy advertises by advertising a community: uses newspaper space to attract freight business. G. A. Nichols. Ptr Ink 125:153-4+ N 15 '23
Praising the fair name of Arkansas increases life insurance business. S. W. Ellis. Ptr Ink 126:157-8 F 14 '24
Putting local color in newspaper copy. E. B. Weiss. Ptr Ink M 8:30-1+ Ap '24
Winning the home-town folks. Ptr Ink 130: 10+ Ja 1 '25

Maps

When you use a map in your advertising. C. B. Larrabee. maps Ptr Ink M 9:21-3 Ag '24

Measurement

Rhythm of campaign—another yardstick for advertising. B: Jefferson. Ptr Ink 126:3-4+ F 7 '24
What's the energy value of this copy? B: Jefferson. Ptr Ink 127:61-2+ My 15 '24

See also Advertising—Testing

Negative appeal

Mental hazards that stand in the way of sales. C. B. Larrabee. Ptr Ink M 9:17-18+ Jl '24
Negative appeal scores again. J: A. Murphy. Ptr Ink M 10:48+ Je '25
No apologies needed for the negative appeal. Ptr Ink 132:53-4+ Jl 2 '25

News interest

Capitalizing news in bank publicity. T. D. MacGregor. Burroughs Clearing House 8: 28-9+ Ap '24
Giving industrial campaigns the news reel flavor. L. Peake. Ptr Ink M 10:86+ My '25
How Columbia yarn copy has capitalized on current events. J: A. Lutz. Ptr Ink 126:17-18 F 14 '24
Ne plus ultra of the advertising manager's dream; Kelly-Springfield advertising. Ptr Ink 132:10+ Jl 30 '25
A selling idea for August, 1925: linking up your product with school opening. A. Lewis. Ptr Ink 128:17-19 S 4 '24
When copy comes knocking at the door. D. Hubbard. Ptr Ink 129:87-8 O 30 '24

Novelty appeal

Direct mail "pepper sauce" that whets the reader's appetite. Sales Management 7:1399-1400 Ag '24
"New": a most important word in present-day advertising. A. L. Townsend. Ptr Ink 126:89-90+ Mr 20 '24
Unusual layout simplifies a complicated advertising story. M. Phillips. Ptr Ink 125:33-4+ N 29 '23
Where to find the big constructive sales argument. R. Cole. Ptr Ink 128:137-8+ S 18 '24

See also Advertising novelties

Open letters

Open-letter idea gets a new lease on life. J. True. Ptr Ink 131:142+ Ap 23 '25

Patriotic appeal

Can advertising banish the spell of the foreign label? Ptr Ink 131:10+ My 28 '25

Price appeal

Retailer spots a weak link in the manufacturer's chain. R. C. Bretz. Ptr Ink 131:17-20 Ap 30 '25

Price justification

When resistance to price increase must be overcome. B. R. Brooker. Ptr Ink 127:136+ Ap 10 '24

Price quoting

Prices slightly higher beyond the Rockies. H. A. Haring. Ptr Ink 132:97-8+ S 10 '25
Shall we advertise the price of the leader only? Ptr Ink 132:133-4 S 10 '25
Should the resale price be advertised? Ptr Ink M 9:78 Jl '24

See also Retail trade—Comparative price policy

Quality appeal

Advertising lifts a plebeian product to the blue blood class; chili con carne. R. McDaniel. Sales Management 9:287-8 S 5 '25
Advertising saves a market undermined by seconds. Ptr Ink 131:167-8 Ap 16 '25
How 1,800 dealers were taken off a stagnant list. A. L. Townsend. Ptr Ink 129:160+ O 9 '24
New England housewives give hearing to Grandma's molasses. H: Burwen. Ptr Ink 126:181-2 Ja 10 '24
Retailer refuses to match wits with customers. Ptr Ink 126:158+ Ja 24 '24
Shall we sell the product, or its environments? Derry-made mattresses. H: Burwen. Ptr Ink 125:17-19 D 6 '23
Tapping new sales reservoirs by trading-up. W. B. Edwards. Ptr Ink M 8:22-4 My '24
When the product's prestige gives the prospect a price scare. B. A. Grimes. Ptr Ink 127:186+ Je 26 '24

Repetition

Giving an old campaign new life. Ptr Ink M 8:88+ My '24
Ways to bring back high spots in the campaign for an encore. W. L. Larned. Ptr Ink 127:53-4+ Ap 10 '24
Why Woodbury uses the same appeal after 15 years. G. Kinney. Ptr Ink 129:117-18 O 16 '24

Sense appeal

Do you appeal to the sense that sells? H. Blauvelt. Ptr Ink M 10:128+ Je '25

Signatures

Announcing a new product to an industrial market. Ptr Ink 131:19-20 Ap 16 '25
President's signature beneath advertising copy. Ptr Ink 130:101-2 F 12 '25

Size

Size and position of advertisements. H. I. Casson. Ptg Art 45:27-8 Mr '25

See also Advertisements, Small space

Teaser copy

Making the prospect guess: Buick motor company advertising. C. M. Harrison. Ptr Ink 128:33-4+ Ag 7 '24
Oh Henry! plan for opening up a new territory. J: Glossinger. Sales Management 8:42+ Ja 10 '25
Some new ideas in teaser campaigns. A. Townsend. Ptr Ink 132:109-10+ Ag 20 '25

Testimonials

Belt preservative makes profitable use of a silo idea. C. G. Norton. Ptr Ink 131:133-4+ My 28 '25
Bureau of standards as a source of copy and sales ideas. J. True. Ptr Ink M 8:46+ Ja '24
Choice of the cull in letters from users. A. L. Townsend. Ptr Ink 128:77-8+ S 11 '24
Copy hints from the day's mail. A. T. Moore. Ptr Ink 132:17-20 Jl 23 '25
Government tests and purchases; how advertisers may properly refer to the army, navy or Bureau of standards. Brick & Clay Rec 66:580-1 Ap 14 '25

ADVERTISEMENTS—Testimonials—*Continued*
How De Laval sold milkers to doubting Thomases. C: G. Muller. Ptr Ink 131:17-19 Je 4 '25
How Edgeworth copy is kept perennially young. J. True. Ptr Ink M 7:54+ D '23
How Elgin watch discovered copy experts among users. De F. Hulburd. Ptr Ink 131: 73-4+ Ap 9 '25
How testimonials can be made to order; the New Castle leather company's business-paper advertising. Ptr Ink 126:64+ Ja 24 '24
How to get worth-while testimonials for your business. W. Brindley. Ptr Ink 125:25-7 N 22 '23
Industrial advertising that features the testimonial by indirection. A. L. Townsend. Ptr Ink 126:125-6+ F 21 '24
Letting the old-timers freshen the copy well; how the Wooster brush company used trade papers to conduct a veteran users' contest. D. Gridley. Ptr Ink 132:57-8 S 17 '25
Making the testimonial booklet. D. Gridley. Ptr Ink M 9:23-6 D '24
New outfits for shabby testimonial ideas. Ptr Ink 130:65 Mr 12 '25
Powerful way of using testimonials. W. L. Larned. Ptr Ink 128:67-8 Ag 21 '24
"Selected at random." A. Bradbury. Ptr Ink 133:65-6 O 15 '25
Simplicity in testimonial copy. Ptr Ink 128: 114 Ag 28 '24
Triumph of the testimonial in advertising. W. L. Larned. il Ptr Ink M 10:22-3+ Je '25
What are your legal rights to testimonials? E: I. Devlin, jr. Ptr Ink M 10:64+ Ap '25
Will Rogers gives testimonial copy a new twist. Ptr Ink 130:33-4 F 12 '25

Testing

See Advertisements—Measurement; Advertising—Testing

Thrift appeal

How paint industry chose "save-the-surface" as its slogan. F. J. Ross. Ptr Ink 126:100+ F 14 '24
Thrift a weak appeal in selling a bank's savings department? D. Hubbard. Ptr Ink 129:33-4+ O 2 '24
When Brisbane wrote advertising copy. Ptr Ink 133:25-6+ O 1 '25

Typography and layout

Achieving high standards in typography. A. J. Fehrenbach. Ptr Ink M 9:34-5 O '24
Applying laws of art criticism to Buick advertising. R: Surrey. Ptr Ink 126:101-2+ Mr 13 '24
ing newspaper advertisements that are tinctive. D. Gridley. il Ptr Ink M 9:38-40+ '24
nns that strengthen the sale's message the advertisement. R. Cole. Ptr Ink 9:29-31+ D '24
ing the text in a solution of picture. L. Larned. Ptr Ink 128:64+ Jl 31 '24
and Douglas drop homely layouts. W. Larned. Ptr Ink 125:57-8+ D 13 '23
How environment affects typography. R. G. Gardner. Inland Ptr 73:221-2 My '24
Layouts that break advertising tradition. W. L. Larned. Ptr Ink M 9:35-6+ D '24
Making tired eyes at Christmas. E. T. Needham. Bankers M 109:1099-1100 D '24
Make it look interesting. E. C. Riedel. il Ptd Salesmanship 45:343-8 Je '25
Making single-column copy stand out in newspaper space. W. L. Larned. Ptr Ink 132:95-6 Jl 9 '25
Making the anti-black rule help the newspaper advertiser. G: H. Wicker. Ptr Ink M 11:59-60 Jl '25
Making the newspaper advertisement stand out on the page. G. P. Haynes. Ptr Ink M 10:38+ Mr '25
Making two facing pages a single unit. Ptr Ink 129:77-8+ N 20 '24
Making typography express its purpose. R. F. Salade. Ptg Art 45:33-41 Mr '25
Making use of aristocracy in the layout. W. L. Larned. Ptr Ink 125:69-70+ N 8 '23
Need of reform; block letter type in advertisements. J. L. Frazier. Inland Ptr 74:721-2 F '25
New York Times advertising contest. A. J. Fehrenbach. Inland Ptr 75:568-70 Jl '25
Pittsford's manual for advertisers. 212p Ben C. Pittsford co., Chicago '24
Quality can be improved without increasing cost. J. L. Frazier. Inland Ptr 76:241-2 N '25
Reproduction of advertisements selected from a series. Inland Ptr 73:72a-h Ap '24
Review of newspapers and advertisements. J. L. Frazier. Published in monthly numbers of Inland printer
Revolutionists in page composition. Ptr Ink 132:61-2+ Ag 27 '25
Setting type in mortises. R. F. Salade. Inland Ptr 75:928-30 S '25
Spacing of advertisements. F: N. Phillips. Ptg Art 42:548-55 F '24
Superimposed text can be entirely legible. il Ptr Ink 130:133-4+ Mr 12 '25; Same cond. Inland Ptr 75:613-14 Jl '25
Ten ways to sustain interest in single-column space. W. L. Larned. il Ptr Ink M 10: 41-2+ Ja '25
Tests to determine the best type for your advertisements. R: B. Franken. Ptr Ink M 9:31-3+ Jl '24
Tricks of typography that give novelty to the layout. W. R. Heath. Ptr Ink M 8:37-8 Ap '24
Type and the layout. H. N. Casson. Ptg Art 44:343-4 D '24
Typographic panels that express individuality. A. J. Fehrenbach. Ptr Ink M 9:40-1 D '24
Typographical artistry in industrial advertising. A. L. Townsend. Ptr Ink 130:41-2+ F 19 '25
Typography of advertising. C. W. Lechleidner. Inland Ptr 73:76 Ap '24
Unusual layout simplifies a complicated advertising story. M. Phillips. Ptr Ink 125: 33-4+ N 29 '23
Value of practical layouts. E: C. Sterry. Inland Ptr 74:246-8 N '24
Way to list dealers in an advertisement. Ptr Ink 128:84 Jl 24 '24
What should art and typography cost? W. L. Larned. Ptr Ink 127:61-2+ Je 19 '24
When lettering goes to the costumers. W. L. Larned. Ptr Ink 126:41-2 Ja 31 '24
Why quotes? E. M. Belmont. Ptr Ink 128: 95-6 Jl 3 '24

See also Advertisements—Borders; Advertisements—Headines; Advertisements, Small space

Use appeal

Use of the product as an industrial theme. W. T. Dorr. Ptr Ink 130:81-2+ Mr 12 '25
When sales seem to have stopped on dead center; sales of Lepage's glue. H. Ashbrook. Sales Management 7:1744+ N '24
When yesterday's advertising blocks today's sales. Ptr Ink 130:36 Ja 22 '25
Why stick to one use? Climalene company advertising. E: T. Caswall. Ptr Ink 132:73-4+ Ag 20 '25

See also Instruction in use of product

Week-end appeal

Advertisers see sales stimulus in week-end appeal. B. A. Grimes. Ptr Ink M 11:43-4+ O '25

ADVERTISEMENTS, Classified
Smalls in the London dailies. R. Barton. Ptr Ink M 10:108+ Ja '25

Want ads

Stamp collector combs the country with advertising. Ptr Ink 126:20 Mr 20 '24

See also Employment systems—Advertising

ADVERTISEMENTS, Humorous

Change of pace in copy; how Truly Warner made an overnight shift. R. Crothers. Ptr Ink 129:89-90+ O 9 '24

Flock of popular writers take to advertising copy; a humorous testimonial idea attracts attention to Muriel cigars. A. Bradbury. il Ptr Ink 131:61-2 Ap 2 '25

Good-humoring prospects into inquirers; how Bill Brown gets inquiries for advertising booklet. Ptr Ink 131:60+ Ap 23 '25

Thing called humor. il Ptg Art 44:391-2 D '24

When humor in advertising pays. R. Dickinson. il Ptr Ink M 9:31-2+ N '24

When the cartoonist is valuable as illustrator of the campaign. W. L. Larned. Ptr Ink 125: 41-2+ D 27 '23

ADVERTISEMENTS, Pictorial

Advertising line. F. Weitenkampf. Ptd Salesmanship 45:235-7 My '25

Advertising X-rays sell hidden features of a product. W. L. Larned. Ptr Ink 128:93-4+ Jl 17 '24

Applying laws of art criticism to Buick advertising. R: Surrey. Ptr Ink 126:101-2+ Mr 13 '24

Applying the theory of relativity to advertising. R. W. Sexton. Ptr Ink M 11:36+ Jl '25

Art director's sphere of influence in an advertising agency. Ptr Ink 126:106-8+ F 7 '24

Art in financial advertising. G. P. Knapp. Bankers M 108:229+ F '24

Background as a part of the advertisement's appeal. E. H. Rowe. Ptr Ink 126:97-8+ Ja 17 '24

Backgrounds that accentuate a product's special features. il Ptr Ink 129:33-4+ O 23 '24

Bring those farm illustrations down to earth. R. Yarnell. Ptr Ink 130:137-8+ Ja 22 '25

Building the double-spread to jump intervening gutter space. Ptr Ink 125:41-2+ D 20 '23

Cloaking the story in new pictorial clothes. W. L. Larned. Ptr Ink 129:33-4+ N 13 '24

Cutting the cut and dried from farm copy. W. L. Larned. Ptr Ink 133:81-2+ O 29 '25

Do women respond to "pretty girl" pictures? R. Leigh. Ptr Ink 129:25-6+ N 6 '24

Does advertising art advance? C. B. Larrabee. il Ptr Ink M 8:27-30+ My '24

Europe advertises itself on American luggage by the hotel sticker. W. L. Larned. il Ptr Ink M 11:30-1+ N '25

Extraordinary pictures for ordinary industrial themes. Ptr Ink 131:101-2 My 21 '25

Fine art of introducing the trade-mark modestly. Ptr Ink 127:115-18 My 22 '24

Frame for the picture. Ptr Ink 131:57-8+ Je 18 '25

Getting the guarantee across pictorially. W. L. Larned. Ptr Ink M 11:72+ S '25

Give every copy thought a picture of its own. W. L. Larned. Ptr Ink 129:128+ N 6 '24

The guffaw in art; misplaced mirth in advertising illustrations. C. Schaffner. il Ptr Ink 127:97-8+ Je 12 '24

Hands and feet tell a complete pictorial story. Ptr Ink 132:113-15 Jl 2 '25

How English advertisers use poster techniques in booklets and folders. W: A. Kittredge. Ptr Ink M 11:25-6+ Ag '25

How pictures of installations help dealers in small towns. G: H. Wicker. il Ptr Ink M 10:47-8 Ja '25

How Starrett and other industrial advertisers get effective illustrations. Ptr Ink 126:133-4+ Mr 6 '24

How to get action into the close-up illustration. Ptr Ink 128:41-2+ S 11 '24

How will you get real illustrations for that next campaign? Ptr Ink 129:81-2+ O 16 '24

Illustration in advertising. H. B. Moore. bibliog il Missouri U Bul v 25, no 27:1-35 '24

Is modern advertising art modern enough? D. Gridley. Ptr Ink 131:81-2 Ap 2 '25

It isn't necessary to picture the entire product. W. L. Larned. Ptr Ink 132:57-8+ Jl 16 '25

Just what makes a picture sell? Ptr Ink 133:65-6 O 29 '25

Keeping up with the Joneses in illustrative backgrounds. W. L. Larned. Ptr Ink 127:73-4+ My 1 '24

Landscape-gardening the illustration. W. L. Larned. Ptr Ink 126:108+ Mr 20 '24

Length of service as an illustrative theme. E. H. Rowe. Ptr Ink 125:97-8+ D 13 '23

Little pictorial touches which tug at the heart strings. W. L. Larned. Ptr Ink 129:57-8+ D 18 '24

Look-down vista shows your product in a new light. W. L. Larned. Ptr Ink 130:25-6+ F 26 '25

Making novel perspective the pictorial keynote of the campaign. W. L. Larned. Ptr Ink 126:33-4+ Ja 10 '24

Making time an instantaneous factor in advertising. R: Surrey. Ptr Ink 126:81-2+ Ja 10 '24

Making two facing pages a single unit. Ptr Ink 129:77-8+ N 20 '24

Must the product appear in the illustration. T: F. Walsh. Ptr Ink M 10:34-5+ F '25

Niches into which the plant picture fits. Ptr Ink 129:111-12 D 25 '24

No need for stiffness when a line is pictured. W. L. Larned. Ptr Ink 131:53-4+ Ap 30 '25

Novelty layouts with serious purposes. W. L. Larned. Ptr Ink 130:117-18+ F 19 '25

"Off at the pistol-shot," pictorially. W. L. Larned. Ptr Ink 125:77-8+ N 29 '23

Perhaps that background mars the picture. W. L. Larned. Ptr Ink 131:93-4+ Ap 9 '25

Pictorial exclamation mark. W. L. Larned. Ptr Ink 132:81-2+ Jl 30 '25

Pictorial magnets which draw the eye to the product. Ptr Ink 131:116+ Je 4 '25

Pictorial rules that are made to be broken. Ptr Ink 130:33-4+ Ja 1 '25

Pictorial tour of a product's hidden features. W. L. Larned. Ptr Ink 133:141-2+ O 22 '25

Pictures—a commercial necessity. R. Highet. il Ptd Salesmanship 45:543-8; 46:31-6, 147-51, 253-9 Ag-N '25

Pictures that sell the product. Ptr Ink 129: 144+ N 27 '24

Pictures that turn readers into advertising artists. Ptr Ink 129:81-2+ D 11 '24

Purpose of art work in advertising. H. N. Casson. Ptg Art 43:27-9 Mr '24

Put those statistics into pictures. W. L. Larned. Ptr Ink 129:79-80+ D 25 '24

Putting more appeal in the advertising illustration. A. A. Archbold. il Ptr Ink M 11:23+ Ag '25

Radio craze as advertising atmosphere. W. L. Larned. Ptr Ink 129:77-8 O 9 '24

Realism in advertising character studies. W. L. Larned. il Ptr Ink M 8:26-7+ Je '24

Really now, is copy read? R. Bartholomew. il Ptd Salesmanship 46:243-6; Reply. C: A. Bates. 247-50 N '25

Revolutionists in page composition. Ptr Ink 132:61-2+ Ag 27 '25

Romance of design and ornament as applied to advertising. R. Highet. il Ptg Art 39: 501-7; 40:25-33, 139-46, 235-41, 353-9, 457-63, 558-65; 41:49-55, 145-51, 242-50, 361-, 463-8, 573-8; 42:51-7, 137-43, 233-8 Ag '2 N '23

Serial-story style of illustration. Ptr Ink 131:33-4+ My 28 '25

Size as a pictorial argument. W. L. Larned. Ptr Ink 131:53-4+ Je 11 '25

Some comments on Pollyanna advertising illustrations. Sales Management 6:817 Ap '24

Some possibilities of the child appeal. W. L. Larned. Ptr Ink 128:69-70+ S 25 '24

Symbol that does more than identify the product. Ptr Ink 128:125-6 Jl 10 '24

There's a picture in every headline. Ptr Ink 131:81-2+ My 7 '25

Try a natural setting for that picture. il Ptr Ink 132:49-50+ Jl 23 '25

Unfinished illustrations—a way to capitalize on reader imagination. Ptr Ink 128:33-4+ S 4 '24

Unseen presence in still-life studies. Ptr Ink 130:54+ Ja 15 '25

ADVERTISEMENTS, Pictorial—*Continued*
Vest-pocket demonstrations in advertising do big work in little space. W. L. Larned. Ptr Ink 126:18-20 a 17 '24
What must the advertiser know about advertising art? B. F. Enfield. Ptr Ink 130:77-8+ Mr 19 '25
When Billy Sunday didoes invade so many advertising pages. E. Whitmore. il Sales Management 9:583- O 31 '25
When ghosts play apart in the advertising illustration. W. L. Larned. Ptr Ink 128:168+ Jl 24 '24
When illustrations perform headline duty; illustrations help to sell Yale locks, Armco ingot iron and Veedol. Ptr Ink 126:73-4+ F 7 '24
When the "light touch" pays in real estate advertising. H. Sibley. Ptr Ink 126:137-8 F 14 '24
When the modernist invades advertising. H. Blauvelt. il Ptr Ink M 10:65-6 My '25
When words begin to pile up. A. L. Townsend. Ptr Ink 130:113+ F 26 '25
Who said the picture must tie up with the text? Ptr Ink 133:14-6+ N 5 '25
You are moulding manners and morals. L. Mackall. Ptr Ink M 10:34-5+ Jl '24

See also Advertising characters; Advertising departments—Art directors; Art, Commercial; Broadsides (advertisements); Color in advertising; Fotography, Commercial; Posters; Trade marks

Borders

See Advertisements—Borders

Cartoons

Animated cartoon does a advertising turn. Ptr Ink 132:57-8+ Ag 3 '25
Even industrial buyers respond to cartoons. Ptr Ink 130:28 Ja 8 '25
Sell it with cartoons. L. Mackall. il Ptr Ink M 10:39-40+ F '25
When the cartoonist is valuable as illustrator of the campaign. W. L. Larned. Ptr Ink 125: 41-2+ D 27 '23

Exhibitions

Annual Art directors club exhibition. C. B. Larrabee. il Ptr Ink M 10:28-30+ Je '25
Awards at Art directors' club exhibition. Ptr Ink 131:61-2 Ap 30 '25

Photographs

Art of giving photographs qualities of the original canvas. W. L. Larned. il Ptr Ink 126:74+ F 14 '24
Color photograph comes into its own. Ptr Ink 132:33-4 S 3 '25
Keeping the photographic illustration unaffected. W. L. Larned. Ptr Ink M 9:70+ O '24
When to put personality into advertising. Ptr Ink 128:125-6 Ag 21 '24

Portraits

Swan song of the rubber-stamp model. W. L. Larned. il Ptr Ink 133:3-4+ O 8 '25

Technique

Bobbed era in retouching. Ptr Ink 132:73-4+ S 24 '25
Foreign technique finding its way into American illustrations. W. L. Larned. Ptr Ink 125:41-2+ N 15 '23
How the anti-black rule militates against the advertiser. G. P. Haynes. Ptr Ink M 10: 35+ Ap '25
How to get full value out of line and halftone. il Ptr Ink 127:97-8+ My 15 '24
Interesting study of newspaper art technique; straw-hat advertising. A. R. King. il Ptr Ink 132:98-9 Ag 13 '25
Is there a special practice in the preparation of rotogravure art? Ptr Ink 127:97-8+ Ap 24 '24
Little light on dark pictorial subjects. W. L. Larned. Ptr Ink 131:77-8+ Ap 16 '25
Magical effects with pen and ink. W. L. Larned. Ptr Ink 130:33-4+ Mr 26 '25
Making pictures play second fiddle to copy. W. L. Larned. Ptr Ink 131:120+ Ap 23 '25
Motion picture stunts are borrowed by advertisers. Ptr Ink 131:105-6+ My 14 '25
Paring the list of "don'ts" for newspaper illustrations. Ptr Ink 129:61-2+ O 30 '24
Pools of white in which to float important pictorial features. W. L. Larned. Ptr Ink 132:57-8+ Ag 6 '25
Safeguarding illustrations from recent rules against heavy blacks. Ptr Ink 127:61-2+ Je 5 '24
Superimposed text can be entirely legible. Ptr Ink 130:133-4+ Mr 12 '25; Same cond. Inland Ptr 75:613-14 Jl '25
These pictures place the reader in a front-row seat. W. L. Larned. Ptr Ink 130:41-2+ F 5 '25
Tricky effects obtained with solid black and white. W. L. Larned. Ptr Ink 130:114+ Ja 8 '25
Trying out experiments in newspaper reproduction. W. L. Larned. Ptr Ink 131:17-20 Je 25 '25
Wedding pen-and-ink technique to other mediums. Ptr Ink 128:80+ Jl 10 '24
When artist and photographer collaborate. W. L. Larned. Ptr Ink 132:152+ S 10 '25
When the engraver's tooled-out whites help to make an illustration attractive. Ptr Ink 127:61-2+ Ap 3 '24

Telephone transmission

Story behind the first telephotographed advertisement. Ptr Ink 131:41-2+ Ap 16 '25

ADVERTISEMENTS, Small space
Advertising the product that can't be advertised; continuous use of small space in business papers for Fitzsimons steel shafting. R. W. Johnson. Sales Management 7: 1764+ N '24
Case where quality newspaper advertising might be applied; considerations regarding large and small space. Ptr Ink 128:19-20 Jl 31 '24
Making the little advertisement attract attention. R. Crothers. il Ptr Ink M 9:24 S '24
Small advertisements as business getters. G: Wissman. Bldg Age 46:82+ O '24
Small space vs. large space. Ptr Ink 130:52 Ja 1 '25
Squeezing institutional copy into small space. Ptr Ink 133:93-4 O 1 '25
Ten ways to sustain interest in single-column space. W. L. Larned. il Ptr Ink M 10:41-2+ Ja '25
Tricks in trapping the eye. A. A. Shields. Pet Age 15:30+ My 1 '25
Twelve ways of making small newspaper space seem larger. W. L. Larned. Ptr Ink 130:136-8 Ja 29 '25
When the gas company puts life into small space. W. Piper. Gas Age 55:749-50 My 23 '25

See also Advertisements—Size

ADVERTISERS

Directories

Directory of newspaper advertisers and general advertising agents east of Buffalo and Pittsburgh, inclusive. 11th ed., rev. The Six-Point league, Newspaper advertising representatives, 19 West 44th st., New York

ADVERTISING
Advertise before you see the whites of their eyes. H. R. Wellman. Ptr Ink 129:112+ N 27 '24
Advertising—a creature of progress. J. Green. Sanitary & Heat Eng 100:356-7 N 30 '23
Advertising and salesmanship. J: L. Mahin. 302p Doubleday '25
Advertising and selling. N. T. Praigg, ed. 483p Doubleday '23
Advertising campaigns. H. Tipper and G: French. 423p Van Nostrand '23
Advertising convention is asked to define advertising. Ptr Ink 127:121-2+ My 22 '24
Advertising elements and principles. G: H. Sheldon. 443p Harcourt '25

ADVERTISING—*Continued*

Advertising is a means of communication; abstract. C. W. Mears. Ptg Art 45:172-4 Ap '25

Advertising, its use and abuse. C: F: Higham. 256p Holt '25

Advertising man of 1934. H: Eckhardt. Ptr Ink 128:77-8+ S 19 '24

Advertising procedure. O: Kleppner. 539p Prentice-Hall '25

Advertising response; a research into influences that increase sales. H. M. Donovan. 195p Lippincott '24

Advertising that does the work of junior salesmen. N. Lewis. Sales Management 6: 865-6 Ap '24

Advertising—the creative power of business success. Manuf Rec 87:105-8 My 7 '25

Advertising to turn back the clock. H: A. Beers. Ptr Ink M 8:31+ Ja '24

Advertising works—but not magic. R. S. Durstine. il Nation's Business 13:18-19 Je '25

Advertising year book for 1924. J: C. Oswald, ed. 489p Doubleday '25

America's alarm clock of ambition. C. F. Browning. Ptr Ink 127:104+ Je 5 '24

Are advertising stunts as good as they look? C. Bold. Sales Management 6:1071-2 Je '24

Are you overlooking showmanship in your selling? lessons from the theatrical manager's problems. L. Mackall. Ptr Ink M 11: 41-2+ Jl '25

Are your returns from advertising what they should be? B. L. Shinn. Automotive Ind 51:976-8 D 4 '24

Aspects and advantages of advertising. C. T. Hubbard. Inland Ptr 72:926-7 Mr '24

British invasion of American advertising columns. Sales Management 7:1558-9 S '24

Business first principles. A. F. Shepherd. 48p Business builders ltd., London '23

Captain of industry on advertising; John D. Ryan's changed attitude toward the advertising of copper. Ptr Ink 131:57-8 Ap 9 '25

Democracy of advertising; M. J. Elliot, of Suffolk, Va., protest against Standard oil filling stations. R. Crothers. Ptr Ink 127:146+ Je 12 '24

Dick, the salesman, teaches me three things. A. Osborn. Ptr Ink 133:10+ N 5 '25

Dover powders of advertising. J. A. Wood. Ptr Ink 129:144+ O 16 '24

Early advertising conditions as reflected in Artemas Ward's writings. R. Cole. Ptr Ink 130:61-2+ Mr 26 '25

Export market as a source of advertising ideas; around the world with Texaco. il Ptr Ink M 11:72+ Jl '25

Getting the attention of the public. F. W. Parsons. Gas Age 53:229-30+ F 23 '24

Here's a definition of advertising. Ptr Ink 128:113-14 Jl 3 '24

How Clymer switched its distributing and advertising plans. Ptr Ink 126:89-90+ F 28 '24

How Ford's $7,000,000 advertising campaign is working out. Ptr Ink 127:25-6 My 22 '24

How Gordon-Van Tine determines what advertising will do. G. A. Nichols. Ptr Ink 132:3-4+ Ag 6 '25

How we know our advertising pays. System 45:176-9+ F '24

How we tie up our advertising with the rest of the business. System 45:320-3+ Mr '24

Inside story of Shipping board advertising. Ptr Ink 129:137-40+ D 18 '24

Introduction to advertising. A. J. Brewster and H. H. Palmer. 373p Shaw '24

Is advertising a contingent asset? F. G. Hubbard. Nation's Business 12:17 Ag '24

Is advertising an art? R: Surrey. Ptg Art 42: 343-7 D '23

Isn't it time for advertising to drop its hokus pokus? M. Martin. Ptr Ink 130:3-4+ Mr 26 '25

Laymen comment on advertising as they remember it. J. W. O'Meara. Sales Management 9:414+. O 3 '25

Mail-order hooks in general advertising. L. R. Alwood. Ptr Ink 129:57-8+ D 4 '24

Million for advertising. B. Barton. Ptr Ink 130:153-4+ Ja 29 '25

More consumer pull and less selling push; advertising and the cost of distribution. J: Benson. Comm & Fin 14:991-2 My 20 '25

Mortality among magazine advertisers. 27p New York univ. bookstore, New York '23

My idea of advertising's greatest achievement. C. D. Karr. Ptr Ink 131:113-14+ My 7 '25

New advertising; a vision of what it must do. A. Stote. Ptr Ink 133:166+ O 8 '25

New information. S. Resor. Ptr Ink 127:109-12 My 22 '24

New York university investigates failures among advertisers. Sales Management 6:471 Ja '24

Newcomer's chance in a crowded field. R. Dickinson. Ptr Ink 131:93-4+ Ap 2 '25

1925 advertising dollar will need sharp ears. C. T. Hubbard. Ptg Art 44:451-2 Ja '25

Now I believe in advertising. H. A. Haring. Ptr Ink M 10:61-2+ Ap '25

Organizing a business to give advertising a chance. D. M. Hubbard. Ptr Ink 132:3-4+ S 24 '25

Past advertising helps determine sale price of good-will and trade-marks; Pioneer suspender company will extend outlets of sale of Kazoo waists. Ptr Ink 126:10+ Ja 31 '24

Pertinent advertising ideas. Sanitary & Heat Eng 102:340-1, 408 N 14, D 12 '24

Place of advertising in business. H. B. Kirtland. Ptd Salesmanship 46:260-2 N '25

Plumber Sullivan attends an advertising convention. C: W. Hoyt. Ptr Ink 130:117-18+ Ja 15 '25

Popular sales fallacies. Sales Management 6: 574+ F '24

Prime investment—advertising. H. B. Matthews. I B A of A 14:47-8 O 31 '25

Principles of advertising. H. Tipper and others. 2d ed., rev. and enl. 473p Ronald press '25

Publicity, advertising, news and propaganda—what are they? M. S. Sherman. Aera 13: 1875-8 Je '25

Relation of advertising to capital turnover. J. K. Mason. Ptr Ink M 8:69+ Ap '24

Salesmanship and advertising in developing present and new markets. C. K. Woodbridge. Am Gas Assn Commercial sec v 6: 583-91 '24

Satire on advertising and an answer thereto; Winifred Kirkland and Earnest Elmo Calkins consider a world without advertising, R. Crothers. Ptr Ink 126:93-4+ F 21 '24

Scientist looks at advertising. F. C. Brown. il Nation's Business 13:32-4 Mr '25

Selling by the printed word. R. Ruxton. Published in monthly numbers of Printed salesmanship

Sermons on advertising. S. Eaton. Ptg Art 42:431-6, 557-60; 43:42-4, 149-51, 250-3 Ja [illegible] '24

Seven thoughts smouldering in the minds of seven American business men. Ptg Art 43-4 Mr '25

Small advertiser relates his first year's experiences. C. C. Chase. Ptr Ink 131:3-4 2 '25

Three-legged stool of selling. C: A. [illegible] Ptd Salesmanship 45:349-52 Je '25

Trade swing to county seats makes advertising possible; Harris-Polk hat compa[illegible] W. Harris. Sales Management 6:661 '24

We started advertising too soon and spent six years' profits. T: E. Lyons. Sales Management 9:89-90 Jl 25 '25

What advertising needs most; appreciation of its function. B. Soby. Ptd Salesmanship [illegible] 353-6 Je '25

What price advertising glory? J. R. Sprague. Ptr Ink M 10:32-4+ Mr '25

What the American association of advertising agencies does to make advertising scientifically more effective. S. Resor. Ann Am Acad 115:124-9 S '24

What the "Father of trusts" thinks of advertising. M. Martin. Ptr Ink 128:131-2 Jl 10 '24

What's the underlying factor in advertising success? understanding of human nature. Ptr Ink 127:81-2+ My 15 '24

ADVERTISING—*Continued*

When a competitor too closely copies your sales and advertising methods. C. B. Larrabee. Ptr Ink 125:110+ N 22 '23

When borrowed trouble stands in the way of advertising; not difficult to keep undesirable retailers from ordering. Ptr Ink 127: 89-90 My 29 '24

When old-timers need some advertising education. C. L. Funnell. Ptr Ink M 11:104+ O '25

Where are new advertisers coming from? J. H. Collins. Ptr Ink 128:10+ Jl 24 '24

Where do we go from here? E. E. Calkins. Ptr Ink 129:17-20 N 20 '24; Same. Automotive Ind 51:1097-8 D 25 '24

Where is your strongest competition? F. J. Rose. Ptr Ink 128:10+ Jl 10 '24

Who are the friends of the people? B. Barton. Am Pet Inst Bul 5:9-11 D 10 '24

Why advertise and how. T. R. Hay. Ptg Art 45:149-52 Ap '25

Why advertising embraces activities of business. Ptr Ink 125:110 D 27 '23

Why stop advertising? A. M. Sherrill. Ptr Ink 132:33-4+ Jl 9 '25

Why we started to advertise after 113 years. R. C. Black. il System 45:642-4+ My '24

Wrigley's advertising cuts damages in Doublemint gum suit. Ptr Ink 129:41-2+ D 18 '24

Yes, advertising has its soothsayers and medicine men. C. Bold. Sales Management 8: 233-4 F 7 '25

See also Advertisements; Bank advertising; Billboards; Business; Catalogs; Church advertising; Community advertising; Containers; Electric signs; Exhibits; Good will (in business); Government advertising; Guaranty of goods; Harvard advertising awards; House organs; Library advertising; Mail order business; Merchandizing; Money raising campaigns; Moving pictures in advertising; Municipal advertising; Posters; Press agents; Printing trade—Advertising service; Professional advertising; Propaganda; Radio advertising; Sales letters; Show cards; Show windows; Skywriting; Subdivision Advertising under various subjects, e.g. Anniversaries; Automobile accessories industry; Automobile industry and trade; Bonds; Brick industry and trade; Brooms; Building trades; Candy trade; Chain stores; Chemical industries; Christmas gifts; Cigars; Clothing trade; Collars; Copper industry and trade; Electric industries; Electric railroads; Electric utilities; Employment systems; Farm produce; Farmers; Flour trade; Food industry and trade; Fruit trade; Fur trade; Garden ornaments and furniture; Gas industry; Grocery trade; Hardware; Hosiery trade; Hotels; Ice cream; Ice industry; Insurance, Fire; Insurance, Life; Insurance companies; Investments; Jewelry trade; Laundries; Linoleum; Lubricating oil industry; Lumber trade; Machine tool industry; Machinery industry; Mattresses; Milk, Condensed; Milk trade; Moving picture industry; Newspapers; Package goods; Petroleum industry and trade; Plumbing fixtures; Plumbing trade; Printing trade; Products, Improved; Products, New; Public utilities; Railroads; Raisins; Real estate business; Retail trade; Roller bearings; Roofing; Salt; Samples; Saws; Seasonal industries; Shoe industry and trade; Steamboat lines; Street railroads; Sugar industry and trade; Technical products; Telephone companies; Textile industry; Tobacco industry and trade; Trade marks; Travel; Trust companies; Underwear; Wagons; Washing machines, Electric; Watches; Water companies; *also* American newspaper publishers association—Bureau of advertising; Associated advertising clubs of the world; Association of national advertisers

Accounting

Cutting cost of advertising accessories increases opportunity of advertising. B: Jefferson. Ptr Ink 125:17-20 N 29 '23

Do these charges belong in the advertising account? Ptr Ink 126:41-2 Mr 27 '24

Don't make a beast of burden of the advertising appropriation. A. H. Deute. Ptr Ink 130:17-20 F 19 '25

Architects, Appeal to

How U.S. gypsum reaches for the architect's approval. H. A. Simons. Ptr Ink M 10:60+ My '25

Indirect advertising brings direct returns; how granite quarries won attention of architects. il Ptr Ink 127:117-18 Ap 17 '24

Pittsburgh water heater combines humorous and historical copy. R. Davis. Ptr Ink 126: 98-100 F 28 '24

What does the prospect want—information or argument? R. Dickinson. Ptr Ink M 7:29-30+ D '23

Bibliography

Advertising. J: R. Whitaker. Ann Am Acad 115:250-1 S '24

Outfitting the direct advertising department from the data standpoint. R. E. Ramsay. Inland Ptr 72:939-42 Mr '24

Publicity methods reading list. E. G. Routzahn and M. S. Routzahn. 48p Russell Sage foundation, New York '24

Sales executives' list of references. F. M. Cowan. 108p Dartnell corp., Chicago '25

Some new books on advertising and selling. H. Elias. Special Lib 15:82-5 Ap '24

Children, Appeal to

Intriguing the interest of the kiddies. U. V. Wilcox. Ptg Art 42:437-43 Ja '24

Reaching the family market; Thurman and Boone company's baby club. E. A. Thurman. System 46:577+ N '24

Talking to the younger generation in its own language. il Ptg Art 43:529-37 Ag '24

Continuity

Can a manufacturer ever afford to stop advertising? Ptr Ink 130:3-4+ Ja 15 '25; Same. Brick & Clay Rec 66:360+ Mr 3 '25

Capitalizing a fifty-year-old advertising policy; Rogers Peet company. C: G. Muller. Ptr Ink M 9:136+ N '24

Pabst Dark wants to put on gloves for four rounds with Mr Bold. P. Dark. Sales Management 7:1339+ Ag '24

Persistency in advertising. J: L. Love. Ptg Art 44:457-60 Ja '25

Rhythm of campaign—another yardstick for advertising. B: Jefferson. Ptr Ink 126:3-4+ F 7 '24

Should advertising play tag with business conditions? P. S. Salisbury. Sales Management 8:861-2+ Je 13 '25

When the treasurer swings his axe on the advertising appropriation. C. Bold. Sales Management 7:1219-20 Jl '24

Why Multibestos advertises throughout the year. Ptr Ink 126:88 Ja 10 '24

See also Advertising appropriations; Seasonal industries—Advertising

Costs

Value of inquiries, not volume, true index of industrial sales costs. Ptr Ink 126:33-4+ Mr 27 '24

What should art and typography cost? W. L. Larned. Ptr Ink 127:61-2+ Je 19 '24

See also Advertising—Economic aspects

Dealer cooperation

Adler salesmen help teach dealers the fundamentals of advertising. E. Wolff. Ptr Ink 126:17-19 Mr 27 '24

Bassick advertises advertising to all distributors. R. McDaniel. Ptr Ink 130:33-4+ Ja 8 '25

Business-paper advertisers who go to dealers for ideas. W. L. Larned. Ptr Ink M 8:21-2+ Ja '24

Company that makes its dealers want to advertise. D. B. Skinner. Ptr Ink M 8:60+ Mr '24

ADVERTISING—Dealer cooperation—*Continued*
Co-operative working plan for dealer, jobber, producer. G. A. Nichols. Ptr Ink 131:125-8 My 14 '25
Dealer co-operation from the dealer's side of the fence; twenty-five Corona dealers form association. W. B. Edwards. Ptr Ink 125: 121-2+ D 6 '23
Dealer sag; Westinghouse acts to forestall the inevitable post-campaign slump. Ptr Ink 132:65-6+ Jl 9 '25
Following through in advertising. M. Harlan. Ptr Ink M 8:43-4+ My '24
Getting all distributors to concentrate in an advertising drive. J: A. Murphy. il Ptr Ink M 9:19-20+ N '24
Getting the dealer to make an advertising investment. Ptr Ink 131:73-4 My 28 '25
Gotham hosiery gets dealers to do more local advertising. G: H. Wicker. Ptr Ink M 10: 56+ F '25
How Bird & son help dealers advertise. il Sales Management 8:600 Ap 18 '25
How Chevrolet encourages its dealers to advertise. G. A. Nichols. Ptr Ink 132:95-6+ S 3 '25
Jobber's suggestions to national advertisers. J: M. Townley. Ptr Ink 131:17-20+ Je 11 '25
Laboratory test on dealer tie-up. Ptr Ink 126: 176+ F 7 '24
Lloyd gets dealers to use name in local copy. W. F. Doyle. Ptr Ink 130:73-4 Ja 8 '25
Must advertising be planned to fit dealers' restrictions? Ptr Ink 133:146+ O 1 '25
Our solution of the dealer co-operation problem. R. Branner. Ptr Ink 131:33-4+ Ap 30 '25
Plan that reversed a farm market's off season. R. C. Breth. Ptr Ink 130:105-6 F 26 '25
Reaching the retailer who does not believe in advertising. C. B. Larrabee. Ptr Ink 129: 111-12+ N 20 '24
Retailers learn how general advertising helps them sell. A. Belden. Ptr Ink 127:200+ Je 26 '24
Testimonials sell advertising to dealers. Ptr Ink 131:167-8 Ap 23 '25
What retailers think about general advertising. G. A. Nichols. Ptr Ink 132:117-18+ S 10 '25
What retailers want to know about national campaigns. J. True. Ptr Ink 128:25-6+ S 11 '24
Why and how Brunswick changed its advertising policy. P. L. Deutsch. Ptr Ink 130: 41-2+ Ja 15 '25

See also Show windows—Contests

Dealer helps

Armour salesmen distribute store signs. T. C. Costello. Ptr Ink 133:129-30 O 15 '25
Dealer help wastage; the problem's origin and some general remedies. A. C. Kleberg. Ptr Ink 131:136+ Je 18 '25
Dealers buy 100,000,000 helps from this jobber. C. M. Harrison. Ptr Ink M 9:60+ S '24
"Dealer's name here—". J. W. Speare. Ptr Ink 128:143-4+ Ag 7 '24
Dealers use newspaper electros when they can't get them. Ptr Ink 133:89-90 O 29 '25
Demonstrations and sales bulletins that get dealer co-operation. H. Whitehead. Ptr Ink M 9:50+ D '24
Direct mail that does double duty; dealer literature that goes through to the consumer. L. Mansfield. Ptr Ink 129:128+ O 30 '24
Effective dealer helps for retailers abroad. Ptr Ink 130:129-30+ Ja 15 '25
Getting prospects past the cover of the leaflet. W. L. Larned. Ptr Ink 129:53-4+ O 16 '24
How copyrighted dealer helps can be protected. Ptr Ink 128:128+ Ag 28 '24
How dealer helps can be designed for the four hundred. J. True. Ptr Ink 129:115+ O 30 '24
How Stewart-Warner spreads its direct-mail blanket. D. M. Hubbard. il Ptr Ink M 11: 60+ Ag '25
How to help your retailer show the product. A. H. Van Voris. Ptr Ink 130:17-20 Ja 8 '25
Keeping a stock record of dealer helps. Ptr Ink 132:113+ Jl 30 '25
Making the dealer imprint fit naturally into the picture. Ptr Ink 126:73-4+ Mr 27 '24
Manufacturer advocates free advertising material for dealer distribution. Ptr Ink 126: 141-2 Mr 20 '24
Our discoveries concerning dealer helps. A. G. Pinard. Ptr Ink 131:73-4 My 21 '25
Perennial problem of dealer electros. Ptr Ink 131:179+ Ap 16 '25
Rare retailer. Ptr Ink 128:180+ S 18 '24
Retailer investigates localized direct-mail campaigns. A. H. Van Voris. Ptr Ink 130: 136+ F 19 '25
Sales increase when Jewett refrigerator charges dealers for direct mail. il Sales Management 8:895-8 Je 13 '25
Saving waste on dealer-help advertising. Elec W 83:906-7 My 3 '24
Selling assortments. A. J. Reiss. Ptr Ink M 9:73 Jl '24
Selling baking powder by helping bakers sell cakes. C. M. Harrison. Ptr Ink M 9:99 D '24
Some experiences with the plan of charging for helps. H. C. Bursley. Ptr Ink 131:142+ Je 18 '25
Staging a come-back in a neglected market. R. Dickinson. Ptr Ink 125:113-14+ D 20 '23
Stop giving things to your dealers. G: B. Hendrick. Ptr Ink 127:132+ Je 19 '24
Sure-fire dealer helps. R. D. Hughes. Ptr Ink 127:33-4 My 1 '24
Twice-told tales about dealer helps. L. DeArmand. Ptr Ink 132:129-31 Ag 27 '25
Wahl's methods of distributing dealer helps abroad. G. Córdova. Ptr Ink 132:25-6+ Jl 2 '25
Walk-over enhances dealers' prestige by uncommercial advertising. H: Burwen. Ptr Ink 125:8+ D 27 '23
What is best method of distributing dealer helps? D. G. Miller. Ptr Ink M 8:64+ Ja '24
When the printer delivers your new display material—then what? S. Peabody. il Sales Management 9:91-2+ Jl 25 '25
Who shall pay for dealer helps? M. W. Scanlon. J Elec 54:515-16 Je 1 '25
Why some direct advertising falls down with the dealer. L. R. Alwood. Ptr Ink M 9:60+ Ag '24
Why the dealer now discriminates in selecting free electrotypes. W. H. Heath. Ptr Ink 128:102+ Ag 28 '24

Dealers, Appeal to

Advertising ideas that win a dealer's friendship. A. L. Townsend. Ptr Ink 128:145-6+ S 18 '24
Advertising must sell come-to-market idea to retailers. C. M. Harrison. Ptr Ink 131:129+ Ap 23 '25
Advertising to sell dealers a department in their stores. Ptr Ink 125:123-4 D 20 '23
Big manufacturer teaching merchandising through business press; Cannon towels. Ptr Ink 125:73-4+ N 15 '23
Dealer broadsides that break down sales resistance; Briggs-Maroney paint. J: Briggs, jr. Ptr Ink M 11:114+ N '25
Dealer campaign should mesh with rest of selling machinery. Ptr Ink 131:73-4 My 14 '25
Factors that nullify dealer advertising. M. P. Gould. Ptr Ink 128:144+ Jl 17 '24
Fewer calls to get new dealers. B. A. Fueglein. Ptr Ink M 9:82+ Ag '24
Getting lay dealers to absorb technical facts; Chromel resistance wire. E. B. Weiss. Ptr Ink 131:41-2+ My 28 '25
Getting the dealer to show his colors. R. Crothers. il Ptr Ink M 9:43-4+ N '24
Give your dealers ideas in trade copy. E. B. Weiss. il Ptr Ink M 11:40-1+ N '25
How advertising gets recalcitrant dealers to stock up. G. A. Nichols. Ptr Ink 130:113-14+ Mr 5 '25
How 1,800 dealers were taken off a stagnant list. A. L. Townsend. Ptr Ink 129:160+ O 9 '24

ADVERTISING—Dealers, Appeal to—*Continued*
How Pillsbury sells the turnover idea to the grocer. G. A. Nichols. Ptr Ink 125:17-20 D 20 '23
How the Seng company interests dealers in something they do not buy from it. J. L. Frazier. Ptr Ink 125:61-2+ N 29 '23
How to answer the hand-to-mouth buyer. M. Hastings, jr. Ptr Ink 129:17-20 O 23 '24
It sells itself. A. Bradbury. Ptr Ink 133:10+ O 29 '25
Let branch offices control direct mail to dealers. R. D. Baldwin. Ptr Ink 131:97-8+ My 14 '25
Missionary men are not always needed; I. B. Kleinert rubber company. Ptr Ink 133: 153-4+ N 5 '25
One-cent mailing folder brings orders from 820 new dealers. G: H. Wicker. Ptr Ink 130:177-8+ Mr 26 '25
Planning direct advertising matter aimed at dealers' salesmen. R. E. Ramsay. Inland Ptr 72:445-8 D '23
Product that dealers neglect; "domes of silence" promoted through hook-up with other small wares. il Sales Management 6: 665 Mr '24
Sidetracking dealer resistance for jobbers' salesmen; Lupton auto parts storage. Ptr Ink 126:137-8 F 7 '24
Talking turnover in the retailer's language. R. Crothers. Ptr Ink M 8:52+ Ap '24
This program secured 2,500 dealers for us in 1924. R. J. Klaiber. Ptr Ink 130:10+ Mr 26 '25
Through the dealers' spectacles with direct mail. D. M. Hubbard. il Ptr Ink M 8:67-8 My '24
Trade advertising to catch business that salesmen are missing. M. Hastings, jr. il Ptr Ink M 8:27-8 Ap '24
Trade copy that serves as salesmen's advance cards. E. B. Weiss. Ptr Ink 129:79-80+ N 13 '24
Typical simple campaigns—one to prospects (York national bank), the other to dealers (Evans-Winter-Hebb). R. E. Ramsay. Inland Ptr 73:235-6 My '24
"Use it yourself" as dealer copy. B. A. Grimes. Ptr Ink M 9:47-8+ D '24
Using trade advertising to get window space. E. B. Weiss. Ptr Ink 129:136+ D 11 '24
Van Camp's answer to the "it won't sell in my territory" alibi. H. P. Way. Sales Management 8:519+ Ap 4 '25
What Dennison spends and gets from advertising. H. W. Harney. Ptr Ink 129:49-50+ N 27 '24
When short profits for the dealer block sales; how Sanitas has built good-will. J. W. Behrens. Ptr Ink M 11:36+ S '25

See also Advertising—Dealer cooperation

Economic aspects

Advertising and commodity costs discussed at Seattle meeting. Ptr Ink 132:109+ Jl 30 '25
Advertising as a tonic for the world. W. Churchill. Ptr Ink M 9:46+ S '24
Advertising as a world-adjuster. Ptr Ink 126: 186+ Mr 20 '24
Advertising cuts the price in half. R. Crothers. Ptr Ink 131:26+ Je 11 '25
Advertising helps prevent unemployment. R. Dickinson. Ptr Ink 132:121+ Ag 27 '25
Advertising in its economic and social aspects. H. Hoover. Econ W n s 29:690-2 My 16 '25; Excerpts. Iron Tr R 76:1252-3 My 14 '25
Advertising in the economic scheme—a suggestion to the engineer. E. J. Mehren. Eng N 93;303 Ag 21 '24
Advertising lowers Sun-Maid selling cost. Ptr Ink 130:149-50 F 12 '25
Better distribution will help stabilize employment. C. M. Wright. Ptr Ink 131:41-2+ Ap 2 '25
Buyer sets the price of his purchases. R. Crothers. Ptr Ink 131:25-6+ My 14 '25
Creating standards by advertising. F. H. Sisson. Am Bankers Assn J 17:15-17 Jl '24; Same cond. Comm & Fin Chr 119:283-4 Jl 19 '24
Cutting down the price spread; the advertising manager's broadening view of distribution. P. L. Thomson. Nation's Business 12:38+ Ja '24; Same cond. Ptr Ink 126:117-18+ Mr 13 '24
Distribution conference begins advertising investigation. Ptr Ink 131:10+ Ap 9 '25
Economic determinism and the tooth-brush. W. F. G. Thacher. Ptr Ink 128:77-8+ Ag 7 '24
How advertising eases the growing pains of marketing. Ptr Ink 126:119-20 Ja 17 '24
How and why advertising cuts utility selling prices. G. A. Nichols. Ptr Ink 133:105-6+ O 8 '25
How Beech-nut regards its advertising. F. E. Barbour. Ptr Ink 130:10+ Ja 22 '25
How does advertising benefit the final consumer? R. Dickinson. Ptr Ink 131:3-4+ Ap 30 '25
Is national advertising of apparel a waste? E. Wolff. Ptr Ink 128:25-6+ Ag 14 '24
Lord Leverhulme answers "Who pays for advertising?" Ptr Ink 125:10+ N 29 '23
Maintenance of quality compelled by advertising. R. Crothers. Ptr Ink 131:101-2+ My 28 '25
Newest brick heaver; criticism of Stuart Chase's Work and waste. R. Dickinson. Ptr Ink 133:65-6+ O 1 '25
Our answer to consumers who question advertising. R. Dickinson. Ptr Ink 130:25-6+ Ja 15 '25
Popular discussion of the economics of advertising. J. H. Collins. Ptr Ink 125:145-6+ N 8 '23
Proof that advertising reduces cost to consumer. Ptr Ink 129:57-8+ O 2 '24
Shredded wheat advertising cost reduced 80 per cent. Ptr Ink 130:28+ Mr 5 '25
Smearing the forests with ink! W: McFee. Nation's Business 13:25-6 S '25
Success of new advertising brings a price reduction on product. W: A. McGarry. Ptr Ink 126:25-8 Ja 3 '24
Try this on those who ask: "who pays for advertising?" L. Fleming. Ptr Ink 130:10+ F 5 '25
When Mr and Mrs Public question your advertising. Ptr Ink 129:33-4 D 4 '24
Where does advertising stand in the colleges? Ptr Ink 130:65-6+ Ja 8 '25

Exhibitions

New York advertising exposition opens November 12. Ptr Ink 125:111-12 N 15 '23

Family of products

Bringing up a family of products and selling each one in the line. D. MacLean. Ptr Ink M 11:26-8+ O '25
Bringing up the industrial family—advertisingly; the Vulcan iron works. Ptr Ink 133: 101-2+ N 5 '25
Consumer booklet increases range of dealer's stock. Ptr Ink 132:25-6+ Jl 16 '25
Giving ninety items equal prominence in a limited campaign. Ptr Ink 130:28 Ja 29 '25
How three highly individual campaigns were brought together in a single advertisement. Ptr Ink 126:41-2 Ja 10 '24
Pierce-Arrow defies advertising precedents of its trade. W. Bates. Ptr Ink 128:33-4 Ag 28 '24
Postscript strategy—a way to advertise the Cinderella product. W. H. Heath. Ptr Ink 128:18-20 S 11 '24
Reverses the usual process in selling a family of products; campaign to introduce new items in Lipton tea family. Sales Management 7:1216+ Jl '24
Road to Wellville plays a return engagement. O. Winters. Ptr Ink 130:33-4 Mr 12 '25

Farm women, Appeal to

Perhaps farm women don't know how to use your product. Ptr Ink 131:57-8+ Ap 16 '25
Why 500,000 farm women will be better buyers in 1925. Ptr Ink 131:131-4+ Ap 9 '25

ADVERTISING—*Continued*

Farmers, Appeal to

Bring those farm illustrations down to earth. R. Yarnell. Ptr Ink 130:137-8+ Ja 22 '25
Credit lure brings inquiries—but farmers buy for cash. W. Brindley. Ptr Ink M 10:38+ Je '25
Cutting the cut and dried from farm copy. W. L. Larned. Ptr Ink 133:81-2+ O 29 '25
Federal land bank teaches farmer good financial management. J: A. Murphy. Ptr Ink 126:97-8+ Mr 6 '24
Insurance and the farmer—another equation for advertising. Ptr Ink 126:169+ Mr 13 '24
Manufacturer becomes advertiser after reaching age of three score and ten; Bain wagons. G. A. Nichols. Ptr Ink 125:129-32 N 29 '23
New, obvious and worth-while idea for farm-paper copy. A. E. Haase. Ptr Ink M 11:29-30+ Ag '25
Now that prosperity is with the farmer again. G. A. Nichols. Ptr Ink 128:3-4+ S 18 '24
Planning direct advertising for general stores. R. E. Ramsay. Inland Ptr 74:875-8 Mr '25
Playing "open and above" with the farmer. W. Brindley. Ptr Ink 128:57-8+ Ag 28 '24
"Reason how" copy will sell farmers. Ptr Ink 132:95-6+ Ag 6 '25
Unfavorable market improved by advertising; meat choppers to make sausage. G: H. Hudson. Ptr Ink 126:25-6+ Mr 6 '24
Will Fifth avenue copy sell Main street? Ptr Ink 133:132+ O 15 '25

See also Advertising mediums—Farm journals

Finance

Why inquiries should not be charged to agents. Ptr Ink 130:57-8 Mr 5 '25

See also Advertising appropriations

Golfers, Appeal to

Hole-in-one golfer as a sampling outlet. A. E. Hasse. Ptr Ink M 11:25-6+ N '25
Teeing off from the golf audience. il Ptg Art 43:340-7 Je '24

Industries, Appeal to

Advertising the product that can't be advertised; continuous use of small space in business papers for Fitzsimons steel shafting. R. W. Johnson. Sales Management 7:1764+ N '24
Announcing a new product to an industrial market. Ptr Ink 131:19-20 Ap 16 '25
Breaking down sales resistance in industrial selling; a survey of the buying habits of industry. M. Muir. Ann Am Acad 115:83-94 S '24
Buying motives for industrial goods. M. T. Copeland. Harvard Business R 2:303-18 Ap '24
Campaigns which bid for the manufacturer's attention. Ptg Art 44:253-60 N '24
Common-sense industrial advertising. J: A. Murphy. Ptr Ink 133:25-6+ O 29 '25
Does a limited industrial market preclude advertising? R. Rockafellow. Ptr Ink 128: 108+ Jl 10 '24
Exploration of industrial advertising. C: Noble. Ptr Ink 129:17-20 O 9; 103-4+ O 30 '24
Gaining the ear of the man in authority. Ptr Ink 130:157+ Ja 22 '25
General purchasing engineer talks on advertising. F. J. Petura. Ptr Ink 133:105-6 O 22 '25
Getting productive distribution for industrial catalogues. A. L. Townsend. Ptr Ink 129: 129-31 D 18 '24
Industrial advertiser's answers to three vital questions; International chemical co. D. J. Benoliel. Ptr Ink 133:49-50+ O 22 '25
Industry begins to tell 'em a story. R. Cole. Ptr Ink M 11:31-2+ O '25
Inquiries as a lead to sales in industrial advertising. R. Cole. Ptr Ink 132:77-8+ Ag 13 '25
Just how informal can industrial copy be? R. T. O'Connell. Ptr Ink M 10:52+ Ja '25
Methods of regulating the industrial appropriation. C: Noble. Ptr Ink 129:119-20+ N 27 '24
New advertiser thinks out loud; Poland soap works. A. E. Haase. Ptr Ink M 11:38+ O '25
Nine snapshots of industrial advertising successes. B. Chapple. Ptr Ink 128:78+ Jl 24 '24
Shooting at the industrial sale from many angles. Ptr Ink 132:102+ S 10 '25
They multiplied their industrial inquiries twenty-five fold. H. Chandler. Ptr Ink 131: 17-20 Je 18 '25
What do you want your industrial advertising to do? C: Noble. Ptr Ink 129:119-20+ N 13 '24

Inquiries

Advertisers who may profitably seek for inquiries. S. R. Hall. Ptr Ink 127:69-70 Je 12 '24
Are folks afraid to sign your return cards? M. Droke. Ptg Art 42:453-5 Ja '24
How much is an inquiry worth? Ptr Ink M 11:42 N '25
Inquiries as a lead to sales in industrial advertising. R. Cole. Ptr Ink 132:77-8+ Ag 13 '25
Pointers on those inquiries manufacturers send retailers. J. True. Ptr Ink 128:53-4+ Ag 21 '24
Turning consumer inquiries into sales. H. E. Pettingill. Ptr Ink 131:149-50 Je 4 '25
Value of inquiries, not volume, true index of industrial sales costs. Ptr Ink 126:33-4+ Mr 27 '24
What an ex-salesman thinks of the inquiries you get. R. Wark. Ptr Ink 129:33-4+ N 6 '24
What is a curiosity inquiry? J. D. Cunningham. Ptr Ink 125:33-4+ D 6 '23
What retailers think of the leads you send them. H. A. Haring. Ptr Ink 129:131-2+ O 2 '24

Jobber cooperation

Advertising helps C-it corporation to identify distributors. G. A. Nichols. Ptr Ink 133: 49-50+ O 1 '25
Finesse in co-operative work with distributors. Ptr Ink 133:89-90+ O 22 '25
One mailing wins cooperation of 3,600 jobbers' salesmen. E. H. Shanks. Sales Management 9:155-6+ Ag 8 '25
When the jobbers' salesmen are the neck of the sales bottle; Ekco guaranteed strapping. P. Chapman. Sales Management 8:797-8+ My 30 '25

Jobbers, Appeal to

How an assortment selling plan is being merchandised; Aluminum goods manufacturing advertising liquor-flavored specialties. Ptr Ink M 8:32-3 F '24
How much attention must industrial advertisers give the jobber? R. Perry. Ptr Ink M 10:43-4 My '25

Laws and regulations

Barrier against dishonest advertising; Printer's Ink model statute. Ptr Ink 127:93-4+; Bibliography. 98+ Je 5 '24
Don't reproduce U. S. postage stamps in advertising. Ptr Ink 128:10+ Ag 14 '24
Drive to enact "Printers' Ink" model statute in Illinois. Ptr Ink 129:122+ D 11 '24
Is advertising merchandise? question in Wills Sainte Claire bankruptcy proceedings. Ptr Ink 126:53-4+ Ja 24 '24
Prohibition commissioner interprets rulings on advertising liquor-flavored specialties. Ptr Ink 125:81-2+ N 15 '23
Shall legitimate advertising be made illegal by law? the effort of the Boston bar association to prohibit trust company advertising. J. H. Collins. Ptr Ink 130:81-2+ Ja 1 '25
What are your legal rights to testimonials? E: I. Devlin, jr. Ptr Ink M 10:64+ Ap '25
When coupons in Wisconsin newspapers are unlawful. Ptr Ink 126:138 Mr 6 '24

ADVERTISING—Laws and regulations—*Cont.*
When stock selling must have government sanction; in Pennsylvania all dealers in securities must obtain registration. Ptr Ink 128:142+ Jl 3 '24

See also Advertising, Fraudulent; Advertising agencies—Law; Advertising contracts

Leaders

Picking a sales and advertising policy that will last; manufacturer of radio apparatus picks out a leader. H: Burwen. Ptr Ink 126: 10+ Ja 3 '24

See also Advertising—Family of products

Men, Appeal to

Advertisers follow Mr Married Man around the clock. Ptr Ink 127:130+ Ap 3 '24
Prescription for copy addressed to men. A. L. Townsend. Ptr Ink 128:109-10+ Jl 24 '24
Why not father-love in advertising? I. J. Ketterer. Ptg Art 44:555-8 F '25

Planning

Making the advertising plan. H: Eckhardt. Ptr Ink 126:3-4+ Mr 27 '24

Price relations

See Advertising—Economic aspects

Prize contests

Bringing prize contests within the law. Ptr Ink 129:36 D 4 '24
Cash prize contests as the backbone of the special-purpose campaign. W. H. Heath. Ptr Ink 127:41-2+ Ap 3 '24
Consumer guessing contest with a double-barreled effect; Bluebird pearls. Ptr Ink 126:74+ Ja 10 '24
Four million sales in thirty days; drive for co-operation of dealers and clerks multiplies sales of Dr West's tooth brushes. E. Whitmore. Sales Management 6:393-4+ Ja '24
Home lighting contest. il plans Bldg Age 46:78 Ag '24
How shredded wheat adds to its recipes. Ptr Ink 128:72+ Jl 31 '24
Huyler's consumer contest introduces a new package. Ptr Ink 132:111-12 Ag 13 '25
Is a prize contest for consumers good business? A. Bradbury. Ptr Ink 127:41-2+ Je 19 '24
Letting the old-timers freshen the copy well; how the Wooster brush company used trade papers to conduct a veteran users' contest. D. Gridley. Ptr Ink 132:57-8 S 17 '25
New idea for importers; Juan Shaw of Argentina offers prizes for oldest sewing machines. C. W. Gerson. il Am Exporter 95:15-17 O '24
School board bans prize contests. Ptr Ink 128: 98 S 11 '24
Slogan contest as first aid to De Luxe train advertising. Ptr Ink 128:52 S 25 '24

See also Bank employees—Contests

Psychology

Attention and interest in advertising. H. K. Nixon. 68p H. K. Nixon, New York '24
Five loves that cause a man to buy. R. Barstow. Ptg Art 42:252-6 N '23
Psychology in advertising. A. T. Poffenberger. 632p [bibliog. p. 617-23] Shaw '25
Psychology of selling and advertising. E: K. Strong. 468p McGraw-Hill '25
What place has psychology in advertising? C. B. Larrabee. Ptr Ink 132:81-2+ S 24 '25

Rates

Advertising agents and publishers answer Federal trade commission. Ptr Ink 130:10+ Mr 19 '25
Department store rates and the cost of the agate line. Ptr Ink 126:10+ Mr 27 '24
Federal trade commission strives to understand advertising; complaints against three advertising and publishing organizations. Ptr Ink 130:17-20+ Ja 1 '25
More angles to the inch cost. G. L. Caswell. Inland Ptr 72:969-70 Mr '24
Why rage? some problems of publishers, advertising agents, and advertisers. C: A. Bates. Ptd Salesmanship 45:255-8 My '25

See also Legal advertising

Schedules

A selling idea for August, 1925; linking up your product with school opening. A. Lewis. Ptr Ink 128:17-19 S 4 '24

Societies

See also Associated advertising clubs of the world; Association of national advertisers

Statistics

Publication advertising increase seen in Post office report. Ptr Ink 125:154+ D 13 '23
Seventy-five leading magazine advertisers of 1924. Ptr Ink 131:48 Ap 30 '25
Summary of national newspaper advertising in twenty-seven cities. Ptr Ink M 10:138+ Ap '25
Volume of advertising in monthly magazines. Ptr Ink 126:217+ Ja 10 '24 [continued monthly]

Stockholders, Appeal to

Making stockholders friends of a corporation. R. Bartholomew. il diag map Ptg Art 44: 461-9 Ja '25
Why not gamble on the stockholder? T: F. Walsh. il Ptr Ink M 10:38-40+ My '25

Testing

Are college students a dependable index of consumers? G. B. Hotchkiss and R. B. Franken. Ptr Ink M 8:86+ Je '24
Government tests of the value of advertising. Ptr Ink 129:162+ N 13 '24
Selecting the tryout market. F. D. Webb. Ptr Ink 128:25-6+ Ag 21 '24
Taking the guesswork out of business. W: R. Basset. Forbes 14:425-6 Jl 5 '24
What is a good trial market? R. Dickinson. Ptr Ink 125:17-19 N 15 '23

See also Advertising, Mail—Testing

Waste

Audit bureau calls for new campaign against waste. Ptr Ink 133:25-6+ O 22 '25
Farm papers in move for national agricultural day; advertising waste. J. O'Shaughnessy. Ptr Ink 133:41-2+ O 22 '25
Some advertising wastes and how to eliminate them. G. L. Sumner. Ptr Ink 130:109-10+ F 5 '25

Women, Appeal to

Do women respond to "pretty girl" pictures? R. Leigh. il Ptr Ink 129:25-6+ N 6 '24
Effective way to advertise to women. Ptr Ink 129:104 D 4 '24
From one woman to another—anent copy. M. H. Clarke. Ptr Ink 130:57-8 Ja 1 '25
Over-feminizing the feminine appeal. R. Leigh. Ptr Ink 129:99-100+ D 11 '24
Selling by the printed word. R. Ruxton. Ptg Art 44:581-2 F '25
What a housewife wants in copy. L. T. Davis. Ptr Ink M 8:52+ F '24
When bank ads appeal to women. V. Caldwell. Bankers M 109:234-6 Ag '24
When you coal operators advertise, don't forget women. H. Blauvelt. Ptr Ink 128:101-2+ S 11 '24
Why much otherwise good copy fails in the eyes of women—the eighty-five per cent buyers. M. K. Purcell. Ptg Art 44:162-4 O '24
The woman appeal. F. Maule. Ptr Ink 126: 105-6+ Ja 31 '24

See also Advertising—Farm women, Appeal to; Corsets—Advertising

Australia

First-hand facts about advertising in Australia. Ptr Ink 129:138+ O 2 '24

ADVERTISING—*Continued*

California

Just what is this California style newspaper advertising, anyway? W. L. Larned. il Ptr Ink M 11:33+ Ag '25

Canada

How American advertisers change their Canadian copy. B. R. Brooker. Ptr Ink 125: 87-8+ D 27 '23

China

General Electric copy in China takes on spirit of the Orient. Ptr Ink 125:97-8 D 20 '23
Playing safe with color in China. Ptr Ink 129: 69 D 18 '24
Uncovering the markets of China. A. W. Ferrin and W. L. Kilcoin. Ptr Ink 127: 113-14+ Je 5 '24

Denmark

How the Dane uses advertising. A. W. Ferrin and W. L. Kilcoin. Ptr Ink 126:94+ F 14 '24
Sun-maid advertising influences Danish politics. G. Elley-Hansen. Ptr Ink 128:65-6 S 18 '24

France

"Translated into the French by—". W. Perry. il Ptr Ink M 10:32-3 F '25

Great Britain

Choosing the agency to handle your British campaign. J. C. Aspley. Sales Management 7:1277-8+ Jl '24
Copy that sold American goods in King George's land. C. McPherson. il Sales Management 8:79-81+ sec 2 Ja 10 '25
Opportunities for American advertisers in the British markets in 1924. J. True. Ptr Ink 126:17-20+ Ja 10 '24
Year's campaigns for American products in Britain. J. C. Aspley. Sales Management 8:75-6+ sec 2 Ja 10 '25

India

Advertising in India. D. Renshaw and C. B. Spofford, jr. U S Bur For & Dom Com Trade Information Bul 318:1-28 '25
India is ripe for American advertising. Ptr Ink 130:144+ Ja 8 '25

Java

Jazzing up Java. A. W. Ferrin and W. G. Kilcoin. Ptr Ink 126:113-14+ Ja 3 '24

Mexico

Not essential to "habla espanol" to sell in Mexico. R. McDaniel. Sales Management 8: 669-70 My 2 '25

Turkey

Advertising flourishes in Constantinople. A. W. Ferrin and W. L. Kilcoin. Ptr Ink 125: 41-2+ D 13 '23

ADVERTISING, Association

Advertising aids in the solution of lumber industry's problems. J. True. Ptr Ink 126:89-90+ Ja 3 '24
Calamity encourages the oyster industry to advertise. Ptr Ink 132:10+ Ag 13 '25
Co-operative advertising of a public utility. W. M. Mason. Gas J (Lond) 167:391-3 Jl 23 '24
Cooperative industry advertising. R. A. Cheney. Textile World 67:858 F 7 '25
How Sealdsweet advertises to growers to insure quality. Ptr Ink 129:34+ O 16 '24
How to claim distinction for an everyday product; advertising of Pennsylvania crude oil. J: A. Lutz. Ptr Ink 127:129-30+ Ap 24 '24
Press agent loses out again; the Calf tanners association takes paid space for talk with workers. Ptr Ink 130:185 F 12 '25
Proposed national advertising campaign. J: W. MacGregor. I B A of A 14:19-22 S 23 '25
Report of N.P.O. & V.A. National clean up and paint up campaign committee and of the Save the surface committee. Oil Paint & Drug Rep 106:27+ O 29 '24; 108:33+ N 5 '25
Roundabout advertising that follows a straight line. W. Clay. Ptr Ink 130:149-50+ Mr 26 '25
Suggestions on group advertising. Sheet Metal Worker 16:3-4 F 13 '25
30 years of cooperative advertising. V. Fisher. Gas Age 54:233-4 Ag 16 '24
Value of group advertising. M. Crowley. Sanitary & Heat Eng 102:374-5+; 103:11-13, 74-5+ N 28 '24, Ja 9, F 6 '25
When a whole industry advertises. R. McDaniel. Nation's Business 12:31+ My '24
When many okehs are needed on the advertising campaign. R. Branner. Ptr Ink 126:89-90 Ja 24 '24
Why advertise collectively? H. E. Jones. Sanitary & Heat Eng 101:67-9+, 144, 174-5 F 8, Mr 7, 21 '24
Why association campaigns sometimes fail. Ptr Ink M 9:100+ O '24
Wisconsin independents to try the press for association advertising. W. K. Halbert. Nat Pet N 17:23-4 Ja 21 '25

See also Advertising, Cooperative; *also* National trade extension bureau

Finance

How far can associations go for advertising funds? Ptr Ink 129:95-6 N 13 '24

ADVERTISING, Cooperative

Advertisers follow Mr Married Man around the clock. Ptr Ink 127:130+ Ap 3 '24
Advocates co-operative advertising for life insurance. J: A. Price. Ptr Ink 131:117-18+ Je '25
Another industry takes its first advertising steps; furniture warehousemen's co-operative campaign. Ptr Ink 132:3-4 S 4 '25
Canada starts a nation-wide campaign to increase sale of fish. B. R. Brooker. Ptr Ink 125:89-90+ D 13 '23
Christmas campaign that makes every day a shopping day. O. Winford. Ill System 44:730-2+ D '23
Cincinnati shoe manufacturers unite to win back lost trade. Sales Management 8:41 Ja 10 '25
Competing chain-store systems combine in advertising. Ptr Ink 125:117-18 N 13 '23
Cooperative advertising by retail service grocers. S: Freed and A. V. Swoboda. 24p Univ. of Colorado, University extension division, Boulder '25
Co-operative advertising in Britain perks up. F. H. Wright. Ptr Ink 130:85-6 F 26 '25
Co-operative advertising of electricity. Elec R (Lond) 95:116-17 Jl 18 '24
Cooperative retail advertising. U S Bur For & Dom Com Trade Information Bul 302: 1-11 '25
Co-operative steamship campaign opens opportunity for more institutional advertising. Ptr Ink 127:77-8 Ap 3 '24
Co-operative work that strikes out along new lines. A. Leslie. Ptr Ink 129:165-6+ D 11 '24
Dealer co-operation from the dealer's side of the fence; twenty-five Corona dealers form association. W. B. Edwards. Ptr Ink 125: 121-2+ D 6 '23
District co-operative advertising. N. H. Humphrys. Gas J (Lond) 168:656 D 3 '24
Eight manufacturers co-operate to advertise new Studebaker. Ptr Ink 128:129-30 S 18 '24
Farm implement men make price fight in co-operative campaign. G. A. Nichols. Ptr Ink 126:90+ Ja 31 '24
Guide-post for co-operative advertising campaigns. F. Coste. Ptr Ink 127:158+ Je 19 '24
How far can co-operative farm advertising go? D. Francisco. Ptr Ink M 10:25-6+ Ap '25
Is cooperative advertising all it is cracked up to be? M. Goodman. Sales Management 9: 420 O 3 '25

ADVERTISING, Cooperative—*Continued*
Making people fight for a home. V. E. Coulter. Ptr Ink 127:146+ Je 19 '24
Open sesame to success in industrial cooperative advertising. T. W. Vinson. Ptr Ink 125:169-70+ N 15 '23
Opportunities for cooperative advertising. D. E. Stetson. Inland Ptr 75:918 S '25
Physicians finance a co-operative campaign. Ptr Ink 132:150+ Ag 27 '25
Publicity campaign of the sheet steel manufacturers. L. D. Mercer. Sheet Metal Worker 15:751-2 O 24 '24
Too many cherries? advertise cherry pie! Ptr Ink 127:151+ Ap 10 '24
Turning spongers into regular customers. Ptr Ink 125:145-6 N 29 '23
Value of co-operative advertising questioned. Ptr Ink 125:137 N 22 '23
When an entire industry backs a campaign. Ptr Ink 127:156 Je 12 '24
When dealers shoulder the manufacturer's burden. B. A. Grimes. Ptr Ink 132:49-50+ Ag 20 '25

See also Advertising, Association; Catalogs, Cooperative; *also* National dairy council

Neosho plan

Neosho plan—a builder of railroad business. N. C. Tompkins. il Ry Age 75:1011-12 D 1 '23

ADVERTISING, Direct
Bigger returns from what you spend for printed matter. D: H. Colcord. il Sales Management 6:377-8+ Ja '24
Blotters, flyers and envelope stuffers. D: H. Leoso. il Sales Management 6:595+ F '24
[illegible] advertising department. W: W. Beardsley. 116p Ronald press '24
[illegible] ertising. R. E. Ramsay. Published [illegible]ly numbers of Inland printer
[illegible] salesmanship in direct advertising. [illegible] Skinner. Ptg Art 43:45-7 Mr '24
[illegible] serts—versatile allies of your ad[illegible] C. B. Larrabee. Ptr Ink M 7:31-3 [illegible]
[illegible] rect advertising for confectioners and soft-drink parlors. R. E. Ramsay. il Inland Ptr 75:245-8 My '25

See also Advertising, Mail; Blotters; Catalogs; Handbills; House organs; Labels; [illegible] oods—Advertising

ADVERTISING, Direct mail. See Advertising, Mail

ADVERTISING, Educational
Advertising a staple to soften the retailer's job; Hires-Turner glass company. Ptr Ink 125:57-8+ N 22 '23
Advertising is altering the food habits of the world. Ptr Ink 125:129-30+ N 15 '23
Advertising that takes care of future needs. J. D. Ellsworth. Ptr Ink 126:129-30 F 14 '24
Advertising to check inflated financing. Ptr Ink 131:149-50+ Ap 9 '25
Another hard-boiled industry takes its case to the consumer. D. Gridley. Ptr Ink 126: 41-2+ Mr 6 '24
Anthracite operators advertise free course in heat engineering. J: A. Lutz. Ptr Ink 128: 106+ S 18 '24
Bakelite's round-robin advertising comes home to roost. C: G. Muller. Ptr Ink 131:133-4+ My 7 '25
Big job for the farm implement maker. A. Stote. Ptr Ink 132:70+ S 3 '25
Country-wide advertising to make retailers' position clear to public proposed. J: S. Jones. Ptr Ink 125:53-4 N 29 '23
Educational or an institutional campaign—which? R. W. Sexton. Ptr Ink M 10:45-6 Ja '25
Epoch of the engineer; forecasting the time when he will advertise co-operatively. A. Stote. Ptr Ink 131:99-100+ Je 4 '25
Footballs of public opinion. R. Stevenson, jr. Ptr Ink 129:181+ O 16 '24
Getting lay dealers to absorb technical facts; Chromel resistance wire. E. B. Weiss. Ptr Ink 131:41-2+ My 28 '25
"Home, sweet home" as architects should sing it. A. Stote. Ptr Ink 131:85-6+ Ap 16 '25
How bankers can draw on public confidence. A. Stote. Ptr Ink 128:132+ S 4 '24
How the Seng company interests dealers in something they do not buy from it. J. L. Frazier. Ptr Ink 125:61-2+ N 29 '23
Human touch of the Metropolitan Life. Ptr Ink 129:121-2+ D 4 '24
If doctors only would—. A. Stote. Ptr Ink 132:97-100 Jl 16 '25
If Mr Cromwell asked me. A. Stote. Ptr Ink 127:25-6+ My 8 '24
Institutional, educational advertising of oil as fuel. W. M. Horner. Am Pet Inst Bul 4:73-6 D 31 '23
Off-season campaign produces a hundred per cent increase. Sales Management 9:282+ S 5 '25
Physicians finance a co-operative campaign. Ptr Ink 132:150+ Ag 27 '25
Prejudiced market is reversed by advertising; Hawaiian ice company. Ptr Ink 126:165 F 14 '24
Price of keeping your public in ignorance. A. Stote. Ptr Ink 128:136+ S 25 '24
Tame copy won't tame forest fires. W. B. Greeley. Ptr Ink 129:3-4+ D 4 '24
Technical men of a city explain themselves. H. W. Smith. Ptr Ink 128:94+ S 25 '24
Tonic for an unresponsive market. R. Perry. Ptr Ink M 9:68+ Jl '24
Turning spongers into regular customers. Ptr Ink 125:145-6 N 29 '23
Walk-over enhances dealers' prestige by uncommercial advertising. H: Burwen. Ptr Ink 125:8+ D 27 '23
We found the way to bigger sales through a promotion department. F. A. Brazelton. Sales Management 8:535-6 Ap 4 '25
What's wrong with oil? A. Stote. Ptr Ink 127:101-2+ Je 19 '24
When buyers' ignorance is your worst competition. B. F. Berfield. Ptr Ink 130:53-4+ F 12 '25
When half-way advertising obscures the main idea. Ptr Ink 130:49-50+ Mr 19 '25
When the idea is more important than the product; Johns-Manville campaign on trade-marked houses. R. Cole. Ptr Ink 131:133-4+ Ap 2 '25
Why advertise? G: Dock, jr. I B A of A 14:22-4 S 23 '25
Wisconsin manufacturers fight for popular good-will. Ptr Ink 129:10+ D 4 '24

See also Advertisements—Price justification; Advertising, Association; Advertising, Institutional; Exhibits; Instruction in use of product; Package goods—Directions for use; Public utilities—Advertising; Publicity

ADVERTISING, Ethics of. See Advertising ethics

ADVERTISING, Foreign
Add a little more local flavor to your foreign copy. W. L. Larned. Ptr Ink 130:73-4+ F 12 '25
Advertising American dyestuffs in foreign countries. A. T. Marks. Textile Col 46:629-30 O '24
Advertising material I receive from you in Mexico. H. Rose. Ptr Ink 131:33-4 My 21 '25
American goods in need of more advertising abroad. Ptr Ink 126:113-14 Mr 27 '24
British advertising review section of Sales management. Sales Management 8:75-126 sec 2 Ja 10 '25
China—an opportunity for American advertisers. J. B. Powell. il Ptr Ink M 7:41-2+ D '23
Choosing the agency to handle your British campaign. J. C. Aspley. il Sales Management 7:1277-8+ Jl '24
Effective dealer helps for retailers abroad. Ptr Ink 130:129-30+ Ja 15 '25
Eversharp's foreign advertising policy. Ptr Ink 125:115-16+ D 13 '23
Export advertising practice. D. P. De Young. il Management & Adm 9:29-32 Ja '25
Export advertising practice. C. F: Propson. 271p Prentice-Hall '23

ADVERTISING, Foreign—*Continued*
Export sales letters that bring results. W. F. Wyman. Ptr Ink M 10:21+ Je '25
General Electric copy in China takes on spirit of the Orient. Ptr Ink 125:97-8 D 20 '23
Government now offers world-wide advertising data; facts on 2,500 foreign publications. Ptr Ink 130:107-8 Ja 1 '25
How American advertisers change their Canadian copy. B. R. Brooker. Ptr Ink 125: 87-8+ D 27 '23
How export letters are keyed. Ptr Ink 131: 69-70+ Ap 23 '25
How 12 companies make foreign advertising pay. P. W. Thayer. System 48:581-3+ N '25
Selling in Swedish markets. H. Blauvelt. il Ptr Ink M 9:33+ O '24
Series of nine export sales letters. W. F. Wyman. Ptr Ink 133:73-4+ N 5 '25
Shipment of samples and advertising matter to Latin America and the West Indies. R. P. Wakefield. U S Bur For & Dom Com Trade Information Bul 250:1-54 '24
Sun-maid advertising influences Danish politics. G. Elley-Hansen. Ptr Ink 128:65-6 S 18 '24
Wahl's methods of distributing dealer helps abroad. G. Córdova. Ptr Ink 132:25-6+ Jl 2 '25
Where, how, and to whom shall I advertise abroad? P. W. Thayer. il System 48:441-2+ O '25

ADVERTISING, Fraudulent
Advertised free offers are under fire. Ptr Ink 129:133-4+ O 23 '24
Daylight cure for blue-sky promotions. R. D. Simmons. Ptr Ink M 9:41-2 Ag '24
Drive on "gyp" furniture advertisers starts in Detroit. G. A. Nichols. Ptr Ink 131:108+ Ap 9 '25
Furniture industry warned against continuing fraudulent advertising practices. Ptr Ink 127:107-8 Ap 3 '24
How the Federal trade commission curbs false advertising. Ptr Ink 125:78+ N 8 '23
How to prevent crooks from stealing a billion dollars a year by use of mails. Ptr Ink 125:61-2+ D 6 '23
Kansas starts war on fraudulent advertising. Ptr Ink 130:172+ F 26 '25
Outrageous use of advertising by vendors of alleged tuberculosis cures. Ptr Ink 130:105-6 Ja 1 '25
Philanthropists are direct-mail advertisers' greatest competitors. B. Avery. Ptr Ink 131: 61-2+ Je 4 '25
Report of fraudulent advertising committee of I.B.A. Comm & Fin Chr 119:1560-1 O 4 '24
Why and how patent advertising is censored. Ptr Ink 129:41-2+ O 9 '24

See also Advertising—Laws and regulations; Advertising ethics

ADVERTISING, Good will. See Advertising, Educational; Advertising, Institutional; Public utilities—Advertising

ADVERTISING, Indirect
Accessory maker grabs the buck. Ptr Ink 130: 33-4+ F 5 '25
Indirect selling brings direct returns. Ptr Ink 126:173-4 Ja 10 '24
Roundabout advertising that follows a straight line. W. Clay. Ptr Ink 130:149-50+ Mr 26 '25
Selling cellarless houses to sell heating equipment. Ptr Ink 126:126+ Mr 6 '24
Speaking up for your customers. J. H. Collins. Ptr Ink 131:3-4+ Ap 9 '25

See also Advertising, Educational

ADVERTISING, Institutional
Advertising the product that can't be advertised; continuous use of small space in business papers for Fitzsimons steel shafting. R. W. Johnson. Sales Management 7:1764+ N '24
Beware of the business muckraker! A. Stote. Ptr Ink 127:10+ Ap 24 '24
Bond house tests the value of good-will copy. Ptr Ink 126:94+ Mr 13 '24
Coco-cola's new method of beating imitators. Ptr Ink 128:10+ S 18 '24
Glass pockets in business. D. E. Wheeler. Ptr Ink M 8:52+ Ja '24
Good will and institutional advertising. B. J. Mullaney. Am Gas J 122:483-4 Je 6 '25; Same. Gas Age 55:918+ Je 27 '25
How big business can get a square deal from public. R. Budd. Ptr Ink 129:3-4+ O 2 '24
How you can use a history in your business. J: A. Murphy. il Ptr Ink M 9:27-8+ S '24
Largest grocery chain takes a hand at institutional advertising; A. & P. stores in Washington district. Ptr Ink 129:107-8 D 11 '24
Making stockholders friends of a corporation. R. Bartholomew. il diag map Ptg Art 44: 461-9 Ja '25
Paid space instead of lobbyists; the Standard oil company of Indiana. R. Crothers. Ptr Ink 133:113-14+ O 1 '25
So Ford is advertising. F. Russell. Ptr Ink 128:41-2+ Jl 17 '24
Squeezing institutional copy into small space. Ptr Ink 133:93-4 O 1 '25
Swift explains its advertising policy. Ptr Ink 126:165+ Mr 13 '24
Walter C. Teagle—an unorthodox captain of industry. E: Hungerford. Ptr Ink M 8:36-8 Mr '24
We advertise our executives—not our product. Ptr Ink 130:111-12 Ja 29 '25
What three years of advertising did for Squibb's sixty-five-year-old trade-mark. J: M. Van Horson. Ptr Ink 126:73-4+ Mr 20 '24
When can a company stop advertising? "Never" is answer of Canadian Pacific. E. W. Beatty. Ptr Ink M 10:21-2 Ja '25
When you need historical data on American cities; S. W. Straus and Co. advertising. Ptr Ink 133:105-6+ O 1 '25

See also House organs

ADVERTISING, Legal. See Legal advertising

ADVERTISING, Mail
Advantages offered to advertisers by air mail service. Ptr Ink 127:10+ My 29 '24
Advertising material I receive from you Mexico. H. Rose. Ptr Ink 131:33-4 My '25
Advice on direct mail for the advertiser the industrial field. Ptr Ink 125:101-2 D '23
Analysis—plan—sales. C: A. Bates. Ptd Salesmanship 46:131-3 O '25
Are folks afraid to sign your return card M. Droke. Ptg Art 42:453-5 Ja '24
Bandying the black art in direct-mail selling. E. R. Roeder. Ptg Art 42:349-50 D '23
Basis of successful direct-mail campaigns. Ptr Ink 131:160 My 14 '25
Better advertising, rather than more of it. Ptr Ink 129:41-2+ N 6 '24
Boomerang of direct returns. R. E. Ramsay. il Inland Ptr 73:913-16 S '24
Buying the gas to make it go. F. W. Bond. Ptd Salesmanship 46:145-6 O '25
Charity raises $90,507 by mail at a cost of 3 per cent. E. A. Rowell. Ptr Ink 130:57-8+ F 26 '25
Circular advertising. S. Eaton. Ptg Art 43: 250-3 My '24
Company that teaches salesmen to route themselves; Toledo scale co. T: F. Walsh. Ptr Ink M 11:29-30+ O '25
Costless direct-mail campaign that rebuilt our business. H. Schloesser. System 47:307-10+ Mr '25
Dealer broadsides that break down sales resistance; Briggs-Maroney paint. J: Briggs, jr. Ptr Ink M 11:114+ N '25
Dealer campaign should mesh with rest of selling machinery. Ptr Ink 131:73-4 My 14 '25
Dealer sag; Westinghouse acts to forestall the inevitable post-campaign slump. Ptr Ink 132:65-6+ Jl 9 '25
Delco-light installs direct mail to help dealers turn prospects into customers. Ptr Ink 126:82+ Mr 27 '24

ADVERTISING, Mail—*Continued*

Direct mail and the salesman. C: A. Bates. Ptd Salesmanship 45:443-5 Jl '25

Direct mail as part of the trust selling campaign. T. T. Weldon. Bankers M 111:31-4 Jl '25

Direct-mail campaign that increased number of accounts 80 per cent. J. Kling. Ptr Ink M 8:41-2 F '24

Direct-mail makers in action. R. E. Ramsay. il chart Inland Ptr 74:97-100 O '24

Direct mail "pepper sauce" that whets the reader's appetite. Sales Management 7:1399-1400 Ag '24

Direct mail that does double duty; dealer literature that goes through to the consumer. L. Mansfield. Ptr Ink 129:128+ O 30 '24

Direct-mail versus newspaper advertising. A. J. Peel. Ptd Salesmanship 46:271-2 N '25

Do depositors respond to mailing? G. P. Knapp. Burroughs Clearing House 9:14-16 F '25

Does sending printed matter ahead of salesmen steal their "thunder"? Sales Management 6:627-8+ Mr '24

Elementary observations on direct-mail advertising. C: A. Bates. Ptg Art 43:227-9 My '24

Ever try direct mail ads? F. H. Williams. Pet Age 15:25-6 F 15 '25

Fewer calls to get new dealers. B. A. Fueglein. Ptr Ink M 9:82+ Ag '24

First-person advertising that brought a new slant to bank's advertising. Ptr Ink 126:84+ Ja 24 '24

$500 mail campaign that brought back $24,000 worth of orders. Sales Management 7:1529 S

Flexibility of direct mail. C: A. Bates. Ptg Art 45:131-4 Ap '25

Folders—used and misused step-children of advertising. C. B. Larrabee. il Ptr Ink M 11:30-2+ Jl '25

Getting the ear of the man in authority. Ptr Ink 126:137+ Ja 22 '25

Getting under the skin of the critical industrial prospect; Tide Water campaign. J. T. Jones. Ptr Ink M 8:90+ Ja '24

Grab-bag of direct-mail advertising ideas. Printer's Ink 123:25-6+ N 5 '25

Handling the research work in typical direct advertising campaigns. R. E. Ramsay. Inland Ptr 73:413-16 Je '24

How a direct-mail campaign is sold to salesmen and retailers. C. Stirling. Ptr Ink M 8:40-2+ Ap '24

How a distributing system for Oliver oil-gas burner grew from mail-order advertising. G. A. Nichols. Ptr Ink 126:157-8+ Ja 10 '24

How Art Metal doubled list of dealers who use direct mail. Sales Management 9:425-6 O 3 '25

How circularising can help the retail electrical trade. E. N. Simons. Elec R (Lond) 95: 460-1 S 26 '24

How Packard Electric balances business-paper and direct-mail advertising. J. C. Bowman. Ptr Ink 125:69-70 D 20 '23

How shall we handle the newcomer to direct mail? L. R. Alwood. Ptd Salesmanship 45: 243-5 My '25

How Sterling products company uses mail to build prestige for salesmen. S. R. Hall. il Sales Management 9:33-6+ Jl 11 '25

How Stewart-Warner spreads its direct-mail blanket. D. M. Hubbard. il Ptr Ink M 11:60+ Ag '25

How the postal rate increase is affecting business. Ptr Ink 132:25-6+ Ag 20 '25

How the wheels of a large direct-mail department go round. H. Whitehead. Ptr Ink M 10:108+ Mr '25

How we sold $21,608 by mail for 4.4%. J. G. Pattee. System 48:551-3 N '25

Humanized copy sells industrial product by mail; Coppus engineering corporation circularizes mines. Ptr Ink 131:107-8 Ap 2 '25

If I were a sales manager with printing to buy. J. T. Igoe. Sales Management 9:369-71 S 19 '25

Increasing direct advertising returns. F. McNaughton. 220p Selling aid, 1304 Jackson blvd., Chicago '23

Injecting a personality into selling by mail; Rust craft publishers' greeting cards. E. D. Chase. il Ptr Ink M 8:60+ Je '24

It's time for direct mail to put on long pants. P. M. Jaques. Ptd Salesmanship 46:251-2 N '25

Keeping memory green between salesmen's visits. Ptr Ink 127:64+ My 8 '24

Larvex corporation mailing piece sold seven thousand orders to retail druggists. N. Lewis. Sales Management 7:1779 N '24

Let branch offices control direct mail to dealers. R. D. Baldwin. Ptr Ink 131:97-8+ My 14 '25

Mail campaign that cost $2,490 and produced $58,000. Ptr Ink 130:133-6 Ja 8 '25

Making it easy for retailers to send fill-in orders. A. H. Van Voris. Ptr Ink M 9:82+ N '24

Missionary men are not always needed; I. B. Kleinert rubber company. Ptr Ink 133:153-4+ N 5 '25

Now we get the full effect of our direct-mail matter. K. G. Merrill. System 48:46-7+ Jl '25

One-cent mailing folder brings orders from 820 new dealers. G: H. Wicker. Ptr Ink 130:177-8+ Mr 26 '25

Our most successful mailing piece. H. L. Ramsay. Sales Management 8:963+ Je 27 '25

Philanthropists are direct-mail advertisers' greatest competitors. B. Avery. Ptr Ink 131: 61-2+ Je 4 '25

Planning, designing and selling an advertising and merchandising campaign. R. E. Ramsay. Inland Ptr 73:757-60 Ag '24

Planning direct advertising for the baking industry. R. E. Ramsay. il Inland Ptr 76: 247-50 N '25

Postmaster tells how to increase direct-mail returns. L. Anson. Ptr Ink 126:3-4+ Ja 10 '24

Printed salesmanship—how it works. H. K. Dirlam. il Ptg Art 44:49-55 S '24

Printer's advertising campaign. E: C. Sterry. Inland Ptr 73:406-8 Je '24

Retailer investigates localized direct-mail campaigns. A. H. Van Voris. Ptr Ink 130:136+ F 19 '25

Sales increase when Jewett refrigerator charges dealers for direct mail. il Sales Management 8:895-8 Je 13 '25

Science of marketing by mail. H. J. Buckley. Forbes 13:391-2, 511-12+ Ja 5, F 2 '24

Selling by mail saves business when traditional selling methods failed. Ptr Ink M 8:55 Ap '24

Selling your next-door neighbors. C: A. Bates. Ptg Art 44:551-4 F '25

Should the printer adopt advertising's unloved stepchild? L. K. Davis. Ptg Art 43: 49-55, 152-8, 254-60 Mr-My '24

Sidetracking dealer resistance for jobbers' salesmen; Lupton auto parts storage. Ptr Ink 126:137-8 F 7 '24

Sky's the printers' limit. C: A. Bates. Ptg Art 44:447-9 Ja '25

Slide rule copy vs. human interest in direct mail. D: H. Colcord. il Sales Management 7:1783-4+ N '24

Specific duties of successful printed salesmen. N. M. Sweet. Ptg Art 44:261-3 N '24

This unique direct-mail campaign solved a common problem. H. L. Nagel. Ptr Ink 132: 104+ Ag 27 '25

Three direct-by-mail ideas that sell merchandise. J: T. Bartlett. J Elec 51:419 D 1 '23

Three-legged stool of selling. C: A. Bates. Ptd Salesmanship 45:349-52 Je '25

Through the dealers' spectacles with direct mail. D. M. Hubbard. il Ptr Ink M 8:67-8 My '24

Tone down the shout in direct-mail. R: Surrey. Ptr Ink 130:129-31 Ja 29 '25

Two-cent stamp gains favor under new postage rates. Ptr Ink 133:17-18 O 1 '25

Unaddressed mail can be sent through Canada. J: L. Love. Ptr Ink 130:49-50+ Ja 8 '25

ADVERTISING, Mail—*Continued*
Van Voris checks on direct-mail advertising. A. H. Van Voris. il Ptr Ink M 8:31-2+ Je '24
Wasting stamps and life stuff. A. G. Atlin. Ptg Art 44:577-9 F '25
What is the most serious problem in advertising? C: A. Bates. Ptd Salesmanship 45:555-7 Ag '25
What of tomorrow? C: R. Wiers. Ptd Salesmanship 46:263-4 N '25
What sort of postage brings the biggest returns? chart Sales Management 9:101 Jl 25 '25
What to expect from direct mail advertising. D: H. Colcord. Sales Management 6:687-8+ Mr '24
When you start out to sell your service. R. E. Ramsay. Inland Ptr 74:237-40 N '24
Who has the right to produce and sell direct-mail advertising? C. E. Fisher. Inland Ptr 76:262-4 N '25
Whom shall the printer first approach? C: A. Bates. Ptg Art 44:247-9 N '24
Why Brown's direct-mail advertising sold goods, while Smith's did not. F. H. Williams. Ptg Art 44:357-60 D '24
Will you call in your postage stamp salesmen? D: H. Colcord. Sales Management 8:237-8+ F 7 '25
World's greatest salesman. N. M. Sweet. il Ptg Art 44:56-60 S '24

See also Advertisements—Books and booklets; Advertising—Inquiries; Advertising, Direct; Catalogs; Follow-up systems; Mail order business; Mailing lists; Order blanks; Printing trade—Advertising service; Sales letters; *also* Direct mail advertising association

Inquiries

How long does it pay to follow up inquiries? Van Kannel revolving door co. R. L. Blanchard. Ptr Ink M 10:50+ My '25

Records

How we chart returns from our direct-mail advertising. R. L. Blanchard. il Ptr Ink M 10:30-2+ Ap '25

Testing

How we test our mail campaigns as we go along. J: C. Sweeney. Sales Management 6:389-90 Ja '24
Test mail campaign that averaged 50 per cent returns. Ptr Ink 132:132+ S 3 '25

ADVERTISING, Municipal. See Municipal advertising

ADVERTISING, National
Advertising that has taught consumers better buying habits; furniture industry. L. S. Arthur. Ptr Ink M 7:23-4+ D '23
Are retailers unable to appreciate real purpose of advertising? W: L. Day. Sales Management 7:1423-4 Ag '24
Dealer tells why some advertisers are "in Dutch" with him. G. T. Kernahan. Sales Management 7:1507-8+ S '24
Dealer who is afraid of national advertising. J. R. Sprague. Ptr Ink M 7:17-18+ D '23
Federal trade commission strives to understand advertising; complaints against three advertising and publishing organizations. Ptr Ink 130:17-20+ Ja 1 '25
Flash of red that won national distribution for Jantzen. Sales Management 7:1737-8 N '24
How we got away from price bickering in selling. F. R. Plumb. Sales Management 6: 529-30+ F '24
Iron Clad's reward for consistency in advertising. R. J. Klaiber. Ptr Ink 128:148+ S 25 '24
Is mass buying becoming an actual menace? more and better advertising will ward it off. Ptr Ink 130:49-50+ Ja 22 '25
Magnifying the infusoria of industry. A. Belden. Ptr Ink 127:41-2+ Je 5 '24
Manufacturer's or dealer's name—which counts most? A. Osborn. Ptr Ink 128:3-4+ S 25 '24
National advertising. W. Chester. Gas Age 55: 878 Je 20 '25
National advertising makes debut in gas industry. J. R. Jennings. Gas Age 56:159-60 Ag 1 '25
No national distribution without advertising. R. R. Clark. Ptr Ink 130:52 F 26 '25
Opportunity knocks at the door—advertising sells it; a five-year drive by the Wheeler, Osgood co. Ptr Ink 126:17-19 Mr 20 '24
Prices slightly higher beyond the Rockies. H. A. Haring. Ptr Ink 132:97-8+ S 10 '25
Retail advertising that capitalizes on national advertising. Ptr Ink M 9:72+ Ag '24
Saunders Norvell defines his stand on national advertising. Sales Management 6:379-80 Ja '24
Small industries marking time for need of marketing ability. il Sales Management 8: 659-60+ My 2 '25
What does the jobber think of national advertising? C. B. Larrabee. Ptr Ink M 9:31-2+ O '24
What happened to private brands when the slump came. R. B. Simpson. Sales Management 7:1512+ S '24
What many critics of advertising fail to understand. C. Bold. Sales Management 6:639-40 Mr '24
What national advertising has done for retailers. J. R. Sprague. Ptr Ink M 10:19-20+ Ja '25
Why national advertisers are "in Dutch" with some retailers. Sales Management 7:1211-12+ Jl '24
Why national advertising pays. J. S. Sleeper. Brick & Clay Rec 65:604-6 O 25 '24
Why we began advertising after a century of selling. E. V. Connett. Sales Management 7:1711-12 N '24
Why we stopped advertising; created competition. Ptr Ink 131:104+ Je 25 '25

See also Association of national advertisers

ADVERTISING, Outdoor
Outside view of outdoor advertising. Eng 106:17-19 F 9 '24

See also Billboards; Electric signs; Posters; Show cards; Show windows; Signs; Skywriting; *also* Outdoor advertising association of America

ADVERTISING, Political
Advertising made keystone of a political campaign. B. A. Grimes. Ptr Ink 132:12+ S 3 '25

ADVERTISING, Professional. See Professional advertising

ADVERTISING, Radio. See Radio advertising

ADVERTISING, Soliciting of
Day of the data book in selling. J. H. Collins. Ptr Ink 127:117-18+ Je 19 '24
How one newspaper secured farm sales advertising. N. J. Radder. il plan Inland Ptr 73:433-5 Je '24
How to deal with the "me-too" advertising solicitor. Ptr Ink 127:17-18 Ap 3 '24
Imaginary solicitation from an imaginary agency. W: Feather. Sales Management 8:613-14+ Ap 18 '25
Plan to build up your national advertising. G. L. Caswell. Inland Ptr 75:269-70 My '25
Space pedler, dope pedler and digger. J. H. Collins. Ptr Ink 128:49-50+ Jl 3 '24

See also Printing trade—Advertising service

ADVERTISING, Trade union
Labor takes a leaf from business. C. M. Wright. Ptr Ink 133:10+ O 15 '25
Union miners advertise to create jobs. Ptr Ink 129:33-4+ D 11 '24

ADVERTISING agencies
Accounts I have refused and why. J. H. Collins. Ptr Ink 126:3-4+ Mr 13; 33-4+ Mr 20; 121-2+ Mr 27 '24
Advertisers will gain if agents and business papers co-operate. M. L. Wilson. Ptr Ink 131:140+ My 28 '25
Advertising agent must show more assets. Ptr Ink 131:81+ Ap 30 '25

ADVERTISING agencies—*Continued*
Agency organization to reach secondary markets. J. H. Collins. Ptr Ink M 8:25-6+ My '24
Are advertising agencies biased in favor of magazines? C. Bold. Sales Management 9: 213-14 Ag 22 '25
Choosing the agency to handle your British campaign. J. C. Aspley. il Sales Management 7:1277-8+ Jl '24
Cut out the waste in space buying; closer co-operation between the agency research department, the account executive and the space buyer. R. Crothers. Ptr Ink 127:133-4+ Ap 17 '24
How can advertising agencies co-operate in sales matters? A. W. Sullivan. Ptr Ink 131:149-50 My 14 '25
Imaginary solicitation from an imaginary agency. W: Feather. Sales Management 8:613-14+ Ap 18 '25
In conference. W: E. Hyde. Ptg Art 43:146-8 Ap '24
Just where should an advertising agency's service stop? C. Bold. Sales Management 7: 1715-16 N '24
Modern advertising agency and its contribution to creative wealth activities. H. H. Kynett. Ann Am Acad 115:183-9 S '24
Much smoke but little fire. G: Ethridge. Ptr Ink 130:72+ Ja 22 '25
1925 listing of principal British advertising agencies handling American accounts. Sales Management 8:114+ sec 2 Ja 10 '25
Origin and development of the advertising agency. D. A. Ruebel. Sales Management 6:419-20+, 667-8+, 935-6+ Ja, Mr, My '24
P.R. advisor investigates the advertising agent. Ptr Ink 130:41-2+ Ja 8 '25
[illegible] of agency relations committee. Ptr [illegible].146+ N 22 '23
Should the printer adopt advertising's unloved stepchild? L. K. Davis. Ptg Art 43:49-52, 152-8 Mr-Ap '24
Small advertising accounts are not unwelcome. Ptr Ink 132:117-18 Ag 6 '25
Stop blaming the advertising man for sins he doesn't commit. C. Bold. Sales Management 7:1355-6 Ag '24
Time has come for forward step in business-paper publishing; cooperation with advertising agencies. A. E. Haase. Ptr Ink 129: 11 20 N 6 '24
What does an advertising agency do for the money it gets? Sales Management 7:1622+ O '24
What is a recognized advertising agency? Ptr [illegible] 129:77 D 4 '24
When shall agencies bill clients? Ptr Ink 126: 20 Mr 6 '24
Where does advertising stop—selling begin? A. H. Deute. Ptr Ink M 11:23-4+ N '25
Why rage? some problems of publishers, advertising agents, and advertisers. C: A. Bates. Ptd Salesmanship 45:255-8 My '25
Why the advertising business should drop defensive tactics. Ptr Ink 125:105-6 N 29 '23
Why use an advertising agency? Ptr Ink 129: 150+ D 11 '24
Woman's chance in advertising agency work. Ptr Ink 127:153+ My 1 '24

Art directors

Art director's sphere of influence in an advertising agency. Ptr Ink 126:106-8+ F 7 '24
Roughing it with the visualizer. D. M. Jones. Ptr Ink 128:33-4+ Jl 10 '24

Checking departments

Checking department—a frequently overlooked source of sales ideas. R. Cole. Ptr Ink 130:3-4+ Mr 5 '25

Finance

Advertising agency's overhead. Ptr Ink M 8:19-20+ Mr '24
Increased compensation for advertising agents. Ptr Ink 131:64+ My 14 '25
What profit should an advertising agency earn? Ptr Ink 127:125-6 Ap 17 '24
When an advertising agent wants to borrow money at the bank. Ptr Ink 125:41-2+ N 29 '23
Why most of us yawn when agency commissions are assailed. C. Bold. Sales Management 8:610+ Ap 18 '25

Law

Legal aspect of the relation between advertising agent and client. R. W. Johnson. Sales Management 8:733-4, 801-2+, 947-8+ My 16-30, Je 27 '25
Suppose the agency fails to pay the publisher? R. W. Johnson. Sales Management 9:27 Jl 11 '25
What is the legal status of the advertising agent? Ptr Ink 125:10+ N 22 '23

Layout

Floor plan of an advertising agency. Ptr Ink M 8:19-20+ Mr '24

Libraries

Barton, Durstine & Osborn, inc. M. L. Alexander. Special Lib 16:264-7 O '25
George Batten company, inc. H. Elias. Special Lib 16:267 O '25

ADVERTISING agencies, American association of. See American association of advertising agencies

ADVERTISING and bankers
Advertising good-will in the balance sheet. E. E. Calkins. Am Bankers Assn J 16:493-4+ F '24; Same. Ptr Ink 126:121-2+ F 28 '24
Bankers back dairymen in big advertising effort; Wisconsin cheese producers. C. M. Harrison. Ptr Ink 126:41-2+ Ja 3 '24
Bankers should not loan money specifically for advertising. Ptr Ink 127:33-4+ Je 12 '24
Bankers' views on advertising as an asset to be considered in making loans. J: W. Prentiss. Manuf Rec 85:89-90 Je 5 '24
S. G. H. Turner of Elmira—the home-town boy who made good. E: Hungerford. Ptr Ink M 7:27-8+ D '23
When the manufacturer wants to borrow money for advertising. R. Cole. Ptr Ink 128:3-4+ S 11 '24

See also Bank advertising

ADVERTISING and employees
Advertising campaign that is conducted by the workers. J: T. Bartlett. Ptr Ink M 8: 108+ F '24
Anthracite operators advertise to the miners. H. Blauvelt. Ptr Ink 133:122+ O 1 '25
United States rubber company's advertising exhibit. A. Belden. Ptr Ink M 8:112+ Ja '24
When employees double in advertising copy. D. Hubbard. Ptr Ink 130:81-2+ Mr 26 '25

ADVERTISING and prices. See Advertising—Economic aspects

ADVERTISING and sales departments. See Sales departments

ADVERTISING and salesmen
Adler salesmen help teach dealers the fundamentals of advertising. E. Wolff. Ptr Ink 126:17-19 Mr 27 '24
Advertising built by and for salesmen. W. F. Tuttle. Ptr Ink 126:183-4 F 7 '24
Balance advertising expenditure and sales effort. A. H. Deute. Ptr Ink M 8:57+ Je '24
Eight letters you can use to sell the advertising idea to a sales force. R. H. Strickland. Sales Management 6:499-500+ F '24
Follow through in advertising. M. Harlan. Ptr Ink M 8:43-4+ My '24
Growing the advertising message in the sales field. R. Barstow. Ptg Art 44:33-6 S '24
How Ide sells its salesmen on each new model. I. Fleming. Ptr Ink 128:17-19 S 25 '24
Letter that welded our advertising to our sales plan; selling Van Heusen collars. J. Ewing. il Sales Management 6:921-2+ My '24
Put advertising in the industrial salesman's sales-kit. H. W. Clarke. Ptr Ink 127:127-8+ Je 26 '24

ADVERTISING and salesmen—*Continued*
Should the sales manager blue pencil the advertising copy? M. K. Powers. Sales Management 7:1577-8+ O '24
Thirty-three hints on selling advertising to salesmen. Ptr Ink 131:179+ Ap 9 '25
What advertising has done for the American salesman. Sales Management 7:1635+ O '24
Who should sell advertising to the salesman? Ptr Ink 125:133 N 22 '23
Widening the advertising panorama of the sales force. D. Hubbard. Ptr Ink 127:25-6+ Je 12 '24

See also Advertising portfolios

ADVERTISING appropriations
Advertising—the creative power of business success. Manuf Rec 87:105-8 My 7 '25
Budgeting advertising expense. J. L. Palmer. Management & Adm 8:395-6 O '24
Estimate of newspaper advertising appropriations. Ptr Ink 129:155-6 N 6 '24
Estimate of newspaper expenditures of 100 advertisers. Ptr Ink 130:109-10 Mr 12 '25
Exploration of industrial advertising. C: Noble. Ptr Ink 129:17-20 O 9 '24
How industrial advertisers distribute appropriations. Ptr Ink 126:88 F 21 '24
How to administer the $1,000,000 appropriation; plan of Life savers, inc. C. B. Larrabee. Ptr Ink 130:89-90+ Mr 12 '25
How to raise the money for community advertising. J: A. Murphy. Ptr Ink 127:105-6+ My 15 '24
How twenty-four big advertisers determine newspaper appropriations. A. E. Haase. Ptr Ink 131:3-4+ My 7 '25
I can't advertise because I can't spend enough. W. B. Edwards. Ptr Ink 132:89-90 Ag 27 '25
Is advertising a nurse or a bartender? A. Osborn. Ptr Ink 125:3-4+ D 20 '23
Making the small appropriation do a 100 per cent job. L. H. Allen. Ptr Ink M 10:41-2 Mr '25
Methods of regulating the industrial appropriation. C: Noble. Ptr Ink 129:119-20+ N 27 '24
Modern practices in making appropriations. H. S. Gardner. Ptr Ink 130:117-20 Ja 29 '25
1924 advertising expenditures. Ptr Ink 131: 168-9 My 7; 120 My 14 '25
Public utility advertising. W. H. Hodge. N E L A Bul 12:296-9 My '25; Same cond. Ptr Ink 130:69-70+ Mr 19 '25; Same cond. Gas Age 55:466+ Mr 28 '25
Recapitulation of "eleven ways to build an advertising appropriation." Ptr Ink 126:57-8+ Ja 17 '24
Sales managing the balky board of directors. H. D. Arthurs. Ptr Ink 131:53-4+ Je 4 '25
Slush funds or advertising appropriations? Ptr Ink 129:95-6 O 30 '24
Small advertising appropriation markets a fruit new to the trade; Satsuma oranges. Ptr Ink 126:119-20 Ja 24 '24
What one hundred concerns spent for advertising last year. Sales Management 6:633-4 Mr '24
Wisdom of the long-term advertising appropriation. Ptr Ink M 9:48 O '24

See also Advertising—Continuity

ADVERTISING as a profession
Advertising—a field for women. M. Pyle. 48p [bibliog. p. 47] Bureau of occupations, 302 S. 13th st., Philadelphia '23
Woman's chance in advertising agency work. Ptr Ink 127:153+ My 1 '24

See also Advertising ethics; Advertising men

ADVERTISING awards, Harvard. See Harvard advertising awards

ADVERTISING campaigns
How sampling is effectively used by E. R. Squibb & sons. T. Weicker. Ptr Ink 129: 127-8+ D 11 '24
Is there a one best time to start advertising? H. M. Hitchcock. Ptr Ink 133:41-2+ O 15 '25

Definition
What is a general advertising campaign? dispute between New York newspaper publishers and typographical union. Ptr Ink 128:64+ S 4 '24

ADVERTISING cards. See Show cards

ADVERTISING characters
Adding another salesman with an advertising character. Ptr Ink 128:144 Jl 24 '24
Gold Dust twins and the Little Fairy stage a return engagement. B. A. Grimes. il Ptr Ink 125:25-7 O 18 '23
Importance of portraying true characters in advertising. il Ptr Ink 127:73-4+ My 8 '24
Making the trade character a hardworking salesman. E. B. Weiss. Ptr Ink M 9:24-5+ O '24
Mistakes of Sunny Jim seen in the light of modern advertising. H: P. Werner. Ptr Ink 129:3-4+ O 23 '24
Realism in advertising character studies. W. L. Larned. il Ptr Ink M 8:26-7+ Je '24
Southern lumber dealer finds the way to sell the thing beyond. Ptr Ink 127:133-4 Ap 10 '24
Standard oil has new trade character. Ptr Ink 125:178+ N 22 '23
When Uncle Sam is the hero of the advertisement. A. L. Townsend. il Ptr Ink 125:133-4+ N 1 '23

ADVERTISING clubs
What an advertising club should be. D. Francisco. Ptr Ink 127:108 Je 12 '24

See also Associated advertising clubs of the world; Pacific coast advertising clubs association

ADVERTISING commission, National. See National advertising commission

ADVERTISING contracts
Advertiser liable for advertisin[illegible] made by fiscal agent. Ptr Ink 1[illegible] 28 '24
Even a president's advertising co[illegible] binding. Ptr Ink 129:91+ D 25 '24
U.S. rubber company appeals for retrial of Ayer case. Ptr Ink 130:10+ Ja 15 '25

ADVERTISING conventions
Miniature advertising conventions four times a year. Ptr Ink 129:105-8 O 2[illegible]

ADVERTISING departments
Checking department—a frequently [illegible] looked source of sales ideas. R. Cole. Ptr [illegible] 130:3-4+ Mr 5 '25
Hooking up advertising to sales in the industrial field; a small sales territory attached to the advertising department. Ptr Ink 126:121-2 F 7 '24
Outfitting the direct advertising department from the data standpoint. R. E. Ramsay. Inland Ptr 72:939-42; 73:581-4 Mr, Jl '24
What sales departments expect of advertising departments. S. B. Woodbridge. Ptr Ink 131:132+ Je 11 '25

See also Advertising managers; Advertising policies

Records
Thumbtacking the pesky details; a system of recording manufacturing items and costs. J. C. McCarthy. Ptg Art 44:361-7 D '24

ADVERTISING ethics
Advertising—once again; Christmas greetings. Am Inst Arch J 11:445-6 N '23
Advertising the knocking argument; the Cadillac motor car company. Ptr Ink 132:142+ Ag 13 '25
Advertising with the hammer. Gas Age 55: 394+ Mr 14 '25
Are advertising ideas public property? E. Whitmore. il Sales Management 9:494+ O 17 '25
"Ask your dealer"—and we did. A. L. Townsend. Ptr Ink 132:33-4+ Ag 27 '25
Burson knitting sues Associated advertising clubs. Ptr Ink 127:157-8 My 15 '24
Coordinating fraud-fighting agencies of industry. B. Shinn. Oil Paint & Drug Rep 106:61-2 O 29 '24

ADVERTISING ethics—*Continued*
High pressure selling methods are the earmarks of questionable securities. K. Barnard. Ptr Ink 126:115-16+ Mr 6 '24
"I'll print it and shame the fools." J. B. Gray. Ptg Art 44:563-4 F '25
Is advertising ethical when it runs counter to the spirit of the prohibition amendment? W. L. Larned. Ptr Ink 126:33-4+ F 7 '24
Is it ethical to point out weaknesses of competitors? W. B. Leach. Ptr Ink 127:137-8+ Je 26 '24
Keeping Montgomery Ward's copy within bounds of truth. T. F. Merseles. Ptr Ink 128:108+ Jl 31 '24
Machinery of organized truth-in-advertising work. Ptr Ink 129:120+ D 25 '24
Misdescription in the textile trades. A. E. Garrett. Textile Inst J 15:P515-21 O '24
Public invited to take hand in furthering truth-in-advertising. Ptr Ink 126:54+ Ja 31 '24
Shall advertising walk in stocking feet or hob-nailed boots? R. Giles. Ptr Ink 127:17-20 Ap 10 '24
Some legal tricks of trade pirates in infringement suits. Sales Management 8:877-8 Je 13 '25
These rules will help Detroit advertisers tell truth. Ptr Ink 132:141-2 S 10 '25
This government report discusses misleading advertising. Ptr Ink 132:153-4+ Jl 23 '25
Truth-in-advertising movement as it affects the wealth-producing factors in the community. H. J. Donnelly, jr. Ann Am Acad 115: 161-73 S '24
What are high pressure methods in security selling? W. E. Severance. Ptr Ink 126:111-12 Mr 6 '24
When scientists split hairs advertisers should run. J. A. Murphy. Ptr Ink 133:85-6 O 1 '25

See also Advertising, Fraudulent

ADVERTISING literature
Advertising literature in the library. Special Lib 16:23 Ja '25

ADVERTISING managers
Advertising manager—sales manager—marketing manager. J. Sullivan. Ptr Ink 126: 31-2+ Mr 6 '24
Advertising manager sits for his picture. Ptr Ink 131:137-8+ Ap 16 '25
Picture of two efficient managers. A. P. Hallmark. Ptr Ink 132:85-6+ Jl 23 '25
Up or out? when the advertising manager outgrows his job. Sales Management 9:147-8 Ag 8 '25
Why advertising managers get other titles. Ptr Ink 129:132 D 18 '24
Why not a consumer sales manager? A. Stuart. Ptr Ink 132:146+ S 24 '25
Worth of an advertising manager depends on himself. Sales Management 6:782-4 Ap '24

Salaries
What is a fair average salary for an advertising manager? Sales Management 6:781-2 Ap '24

ADVERTISING mediums
Advertising tests. Special Lib 16:230-1 Jl '25
Agencies plan marketing research on a national scale. Ptr Ink 129:70+ O 23 '24
Blackmail advertising. Ptr Ink 127:33-4+ My 29 '24
British advertising media for American advertisers. Sales Management 8:120-1+ sec 2 Ja 10 '25
Cut out the waste in space buying; closer cooperation between the agency research department, the account executive and the space buyer. R. Crothers. Ptr Ink 127:133-4+ Ap 17 '24
Envelope—another overlooked advertising asset. C. B. Larrabee. il Ptr Ink M 10:27-9 Ap '25
Example of scientific marketing procedure. S. Cowan. Taylor Soc Bul 9:149-51 Je '24
Government now offers world-wide advertising data; facts on 2,500 foreign publications. Ptr Ink 130:107-8 Ja 1 '25
How to deal with the "me-too" advertising solicitor. Ptr Ink 127:17-18 Ap 3 '24
How to handle a hold-up advertising request. Ptr Ink 126:74 Mr 6 '24
Leaks in banking—how to stop them; by cutting out worthless advertising. W. R. Morehouse. Am Bankers Assn J 16:638-9+ Ap '24
Polite blackmail is politely stopped in Cleveland. Ptr Ink 131:10+ Je 18 '25
Quality or quantity circulation. D. D. Patterson. Inland Ptr 74:214-15 N '24
Shall we readjust the blindfold which the Audit bureau has stripped off? C. Bold. Sales Management 7:1601-2 O '24
Some light on the hazy subject of thin circulation. C. Bold. Sales Management 6:787-8 Ap '24
What rate cards and circulation statements fail to show. C. Bold, pseud. Sales Management 6:397-8 Ja '24
Why not start an advertising sheet in your town? J. A. Dixon. Ptg Art 43:331-5 Je '24
Why, oh why, donate to charity and charge it to advertising? C. Bold. Sales Management 9:23+ Jl 11 '25

See also Advertising—Rates; Audit bureau of circulations; Blotters; Calendars; House organs; Moving pictures in advertising; Radio advertising

Children's periodicals
Talking to the younger generation in its own language. il Ptg Art 43:529-37 Ag '24

College journals
On the campus of college advertising. Ptd Salesmanship 45:249-54 My '25

Farm journals
Farm-paper advertisements that get attention—and why. R. G. Gardner. Ptd Salesmanship 45:259-61 My '25
Farm publishers lay plans for market development; adopt code of ethics. Ptr Ink 129: 113-14+ O 23 '24
New, obvious and worth-while idea for farm-paper copy. A. E. Haase. Ptr Ink M 11:29-30+ Ag '25

Menus
Menu—a neglected advertising vehicle. F. D. Rotellini. Ptg Art 43:39-41 Mr '24

Motor trucks
Overlooked advertising idea. R. C. Rockafellow. il Ptr Ink M 9:67 Jl '24

Moving picture journals
Strategy of the silver sheet. Ptg Art 44:565-71 F '25

Music trade journals
Advertising instrumentalists of the music-trades field. Ptg Art 45:49-55 Mr '25

Newspapers
Advertising and publicity. Missouri U Bul v 26, no 26:1-32 '25
Breaking a deadlocked market with newspaper advertising. J. True. Ptr Ink 128:156+ Jl 24 '24
Checking department—a frequently overlooked source of sales ideas. R. Cole. Ptr Ink 130:3-4+ Mr 5 '25
Direct-mail versus newspaper advertising. A. J. Peel. Ptd Salesmanship 46:271-2 N '25
How American Radiator picked 600 newspapers for sales drive. J. M. Mosely. Sales Management 6:428 Ja '24
Merchandising service in newspaper advertising. S. M. Thompson. Harvard Business R 3:340-7 Ap '25
Newspaper advertising. Gas Age 53:257-8 Mr 1 '24
Newspaper advertising as part of the trust selling campaign. T. T. Weldon. il Bankers M 110:663-8 Ap '25
Newspaper advertising that paid. W. P. Dwyer. il Brick & Clay Rec 64:343-4 Mr 4 '24

ADVERTISING mediums—Newspapers—*Cont.*
Newspaper code of ethics adopted as aid to business. Ptr Ink 127:53-4+ Je 19 '24
Newspaper convention seen through the advertiser's eye. Ptr Ink 127:113-14+ My 1 '24
Safeguarding illustrations from recent rules against heavy blacks. Ptr Ink 127:61-2+ Je 5 '24
Too many newspaper advertisers? J. Calvin. Ptr Ink 133:17-20 O 29 '25
Utilities to spend eleven million on advertising. W. P. Strandborg. Gas Age 53:823-6 Je 14 '24

See also Advertising—Rates; *also* American newspaper publishers association—Bureau of advertising

Periodicals

Buying power of periodical readers is being charted. Ptr Ink 131:81-2+ My 14 '25
Crain's market data book, and directory of class, trade and technical publications. 1925 ed. G. D. Crain, jr., 537 S. Dearborn st., Chicago '25
Launching the motor-boat magazine campaign. il Ptg Art 43:241-9 My '24
Outdoor sports magazine. il Ptg Art 42:535-47 F '24
Question of ethics; advertising in architectural journals. C. H. Blackall. il Am Arch 125:21-2 Ja 2 '24
Radio magazines. Ptg Art 43:31-8 Mr '24
Teeing off from the golf audience. il Ptg Art 43:340-7 Je '24
Volume of advertising in monthly magazines. Ptr Ink 130:197+ Ja 8 '25 [continued monthly]

Postage stamps

Advertising on stamps. il Ptr Ink M 10:78 F '25

Programs

Quality can be improved without increasing cost. J. L. Frazier. Inland Ptr 76:241-2 N '25
Tying up advertising. Am Gas J 121:635+ Jl 12 '24

Radio broadcasting

See Radio advertising

Trade journals

Advertisers will gain if agents and business papers co-operate. M. L. Wilson. Ptr Ink 131:140+ My 28 '25
Automotive trade journals in high on the upgrade. il Ptg Art 44:155-61 O '24
Campaigns which help to prove that clothes make the man. Ptg Art 44:471-6 Ja '25
Editor's responsibility to the advertiser. E. J. Mehren. Eng & Min J 120:714 O 31 '25
Hardy advertising annuals of the house-and-garden field. il Ptd Salesmanship 45:363-9 Je '25
How Packard Electric balances business-paper and direct-mail advertising. J. C. Bowman. Ptr Ink 125:69-70 D 20 '23
How the electrical-journal field generates power. il Ptg Art 43:437-45 Jl '24
How to judge a business paper. P. T. Cherington. Ptr Ink 133:93-4+ O 15 '25
Industrial magazines. il Ptg Art 43:131-9 Ap '24
Know your stuff, key-note of annual sales conference of the Chilton class journal company, Philadelphia. Automotive Ind 53: 550-2 S 24 '25
Making the business paper a better servant of industry. Ptr Ink 133:65-6+ O 22 '25
Some flies in the standardization cream jug. C. Bold. Sales Management 8:533+ Ap 4 '25
Story-tellers' club in business-paper advertising. W. L. Larned. Ptr Ink M 8:35+ Mr '24
Trade copy gets display for Williams shaving products. Ptr Ink 129:196+ O 16 '24
Trade press as a medium for advertising. E. Benn. Chem Age (Lond) 12:306 Mr 28 '25
Uncovering the treasure-trove of jewelry trade advertising. il Ptg Art 44:351-6 D '24
When advertising's theme is the home beautiful. il Ptg Art 44:37-43 S '24
Why and wherefore of inserts in business-paper advertising. Ptr Ink 126:81-2+ Ja 3 '24

See also Advertising—Industries, Appeal to

ADVERTISING men

Advertising man of 1923. H. Eckhardt. Ptr Ink 128:77-8+ S 18 '24
Wanted; a copy salesman. A. Bradbury. Ptr Ink 131:93+ Je 25 '25
What manner of man is this advertising person? G. Kinney. Ptr Ink 125:105-6 N 15 '23

Selection

Examinations and diplomas for the English ad man. T: Russell. Ptr Ink 130:25-6 Mr 5 '25
Why buy a pig in a bag? examination for insurance advertising men. C. Belden. Ptg Art 44:45-8 S '24

ADVERTISING novelties

Armco makes a friendly appeal with advertising specialties. B. Chapple. Ptr Ink 131: 141-2 My 14 '25
Builds goodwill by giving unselfish aid to consumers; McKinney forethought plans for fitting furniture. R. Leigh. Ptr Ink M 9:116+ Ag '24
A company sends its first factory on the road; the Ipswich hosiery shop. B. A. Grimes. Ptr Ink M 10:88+ Je '25

See also Animals, Mechanical

ADVERTISING policies

Bassick advertises advertising to all distributors. R. McDaniel. Ptr Ink 130: 8 '25
Branch manager tells his company how to advertise. J. Calvin. Ptr Ink 133:41- N 5 '25
Business as usual. D. Gridley. Ptr Ink 128: 33-4+ Jl 24 '24
Consistency and persistency in advertising; Campbell soup company. J: T. Dorrance. Comm & Fin 13:2413 D 17 '24
Factory manager's part in shaping sales policies. M. K. Powers. Factory 33:525-6+ O '24
Five pointers that eliminated hit-or-miss advertising. H. B. Cheney. System 46:278-80 S '24
Fourth great period of selling. H. R. Wellman. Sales Management 8:13-14+ Ja 10 '25
How a small advertiser prepared for bigger markets; the Brandes corporation. A. E. Haase. il Ptr Ink M 10:26-7+ My '25
An industrial advertising policy that built sales of millions. R. C. Beadle. Ptr Ink 129: 143+ O 23 '24
Modesty is the best policy. A. Stote. Ptr Ink M 10:70+ F '25
Orphan product acquires a name and caste through advertising; Big Yank work shirts. E. Whitmore. il Sales Management 7:1221-2+ Jl '24
Pitfalls that yawn before the unwary advertiser. R. Giles. Ptr Ink 133:3-4+ O 8 '25
Should the advertising precede or follow distribution? W: J. Reilly. map Sales Management 7:1245-6 Jl '24
They multiplied their industrial inquiries twenty-five fold. H. Chandler. Ptr Ink 131: 17-20 Je 18 '25
To make advertising perform its maximum service; get real story, then stick. Ptr Ink 128:107-8 Ag 21 '24
What Dennison spends and gets from advertising. H. W. Harney. Ptr Ink 129:49-50+ N 27 '24
What sticking to one policy has done for these advertisers. D: H. Colcord. Sales Management 8:145-6+ Ja 24 '25
When does it pay to change marketing policies? D. G. Miller. Ptr Ink M 8:43-4+ Ap '24
When the product isn't ready to be advertised in a big way. Sales Management 8:739-40+ My 16 '25

ADVERTISING policies—*Continued*
Why advertising isn't directed to the man who pays the bills. C. Bold. Sales Management 8:153-4 Ja 24 '25
Why and how Brunswick changed its advertising policy. P. L. Deutsch. Ptr Ink 130: 41-2+ Ja 15 '25
See also Advertising appropriations; Advertising mediums

ADVERTISING portfolios
Advertising portfolio that fits the pocket. Sales Management 8:298 F 21 '25
Making the advertising portfolio a dealer's sales manual. R. Crothers. il Ptr Ink M 8: 39-40 Mr '24
Should the advertising portfolio stick to advertising? E. B. Weiss. Ptr Ink M 9:43-4+ Jl '24
This portfolio increased our jobber sales ten times. E. J. Heimer. il Sales Management 7:1238+ Jl '24

ADVERTISING rates. See Advertising—Rates

ADVERTISING research
Barton, Durstine & Osborn, inc. M. L. Alexander. Special Lib 16:264-7 O '25
Buying power of periodical readers is being charted. Ptr Ink 131:81-2+ My 14 '25
Uncle Sam again gives advertising his approval; results of a survey covering the advertising of branded butter in Washington. Ptr Ink 133:81-2+ N 5 '25
See also Advertising—Testing

ADVISORY board on highway research. See National research council—Advisory board on highway research

AERATION
Kraut aeration and flotation machine. diag Chem & Met Eng 32:293-4 F 16 '25; Eng & Min J 119:76 Ja 10 '25

AERATION of sewage. See Sewage disposal—Activated sludge method

AERATION of water. See Water aeration

AERIAL fish patrol. See Fish patrol, Aerial

AERIAL maps. See Mapping, Aerial; Surveying, Aerial

AERIAL photography. See Photography, Aerial

AERIAL surveying. See Surveying, Aerial

AERIAL tramways. See Cableways

AERIALS. See Radio antennas

AERODYNAMIC balances
New air balance and small wind tunnel. A. Merrill. il diag Aviation 18:350-1 Mr 30 '25
Six-component wind balance. A. F. Zahm. il diags U S Nat Advisory Com for Aeronautics 1922:383-95 '23

AERODYNAMIC laboratories
Case for the revival of the water channel. N. S. Norway. Roy Aeronautical Soc J 28: 647-52 N '24
Ergebnisse der aerodynamischen versuchsanstalt zu Göttingen. diag Zeit Ver Deutsch Ing 68:1155-6 N 1 '24
Some recent work of the aerodynamics department, National physical laboratory. R. V. Southwell. il diags Roy Aeronautical Soc J 29:146-64; Discussion. 164-7 Ap '25
Work of the Goettingen aerodynamic laboratory. Review by A. Klemin. Aviation 16:619-20 Je 9 '24
See also Wind tunnels

Equipment
Aerodynamic plane table. A. F. Zahm. il U S Nat Advisory Com for Aeronautics 1923: 189-97 '24

AERODYNAMICS
Aerodynamic characteristics of airfoils. charts U S Nat Advisory Com for Aeronautics 1923:397-438 '24
Aerodynamic forces on airship hulls. M. M. Munk. U S Nat Advisory Com for Aeronautics 1923:453-68 '24
Aerodynamic properties of thick airfoils. F. H. Norton and D. L. Bacon. U S Nat Advisory Com for Aeronautics 1922:519-33 '23
Aerodynamical characteristics of the airship as deduced from experiments on models, with application to motion in a horizontal plane. R. Jones. bibliog diags Roy Aeronautical Soc J 28:88-150 F '24
Analysis of stresses in German airplanes. W: Hoff. il diags U S Nat Advisory Com for Aeronautics 1922:263-316 [bibliog. p. 315-16] '23
Circulation theory of aeroplane lift. H. Jeffreys. Philos Mag 6th ser 50:815-19 O '25
Damping coefficients due to tail surfaces in aircraft. L. Chu and E: P. Warner. U S Nat Advisory Com for Aeronautics 1922: 111-24 '23
Detailed consideration of the effect of meteorological conditions on airships. G. H. Scott and V. C. Richmond. Roy Aeronautical Soc J 28:189-221 Mr '24
Distribution of lift over wing tips and ailerons. D: L. Bacon. il diags U S Nat Advisory Com for Aeronautics 1923:105-26 [bibliog. p. 121] '24
Drag of C class airship hull with varying length of cylindric midships. A. F. Zahm, R. H. Smith and G. C. Hill. il U S Nat Advisory Com for Aeronautics 1922:141-9 '23
Dynamic stability as affected by the longitudinal moment of inertia. E. B. Wilson. U S Nat Advisory Com for Aeronautics 1923: 253-8 '24
Eddies in air. H. Nisi and A. W. Porter. diags Philos Mag 6th ser 46:754-68, pl 12 N '23
Elements of the Lanchester-Prandtl theory of aeroplane lift and drag. il diags Engineering 117:1-3, 35-7, 100-2, 169-71, 258-60 Ja 4-11, 25, F 8, 29 '24; Discussion. 117:313, 744 Mr 7, Je 6 '24
L'étude aérodynamique des ailes d'oiseaux et des voilures souples. E. Huguenard, A. Magnan and Planiol. diags Génie Civil 84:91-2 Ja 26 '24
Fluid circulation round cylindrical obstacles. D. M. Wrinch. Philos Mag 6th ser 49:240-50 Ja '25
General biplane theory. M. M. Munk. bibliog U S Nat Advisory Com for Aeronautics 1922:473-517 '23
General theory of thin wing sections. M. M. Munk. bibliog U S Nat Advisory Com for Aeronautics 1922:243-61 '23
Inertia coefficients of an airship in a frictionless fluid. H. Bateman. U S Nat Advisory Com for Aeronautics 1923:141-54 '24
Influence of model surface and air flow texture on resistance of aerodynamic bodies. A. F. Zahm. U S Nat Advisory Com for Aeronautics 1922:151-6 '23
Introduction to the helicopter. A. Klemin. il diags Mech Eng 46:739-51 pt 2 N '24
Is the Magnus effect applicable to aircraft? A. Klemin. diags Aviation 18:127-9 F 2 '25
Jet propulsion for airplanes. E. Buckingham. U S Nat Advisory Com for Aeronautics 1923:75-90 '24
Law of free movement. C. F. Jenkins. Aviation 16:176 F 18 '24
Lift and drag effects of wing-tip rake. A. F. Zahm, R. M, Bear and G. C. Hill. U S Nat Advisory Com for Aeronautics 1922:157-65 '23
Measurement of fluid velocity and pressure. J: R. Pannell. 135p Longmans '24
Measurement of the damping in roll on a JN4h in flight. F. H. Norton. il U S Nat Advisory Com for Aeronautics 1923:201-4 '24
Méthode générale et abaque pour calculer les éléments du vol d'un avion. G. Delanghe. diags Génie Civil 84:222-6 Mr 8 '24
Monoplane theory. N. K. Bose. Philos Mag 6th ser 48:113-25 Jl '24
Photographic measurements in aerodynamics. R. Katzmayr. il diags Aviation 17:1334-7 D 1 '24
Pressure distribution over the horizontal tail surfaces of an airplane. F. H. Norton and W. G. Brown. il diags U S Nat Advisory Com for Aeronautics 1922:411-38 '23
Pressure distribution over the rudder and fin of an airplane in flight. F. H. Norton and W. G. Brown. diags U S Nat Advisory Com for Aeronautics 1922:439-48 '23

AERODYNAMICS—*Continued*
Pressure distribution over thick airfoils—model tests. F. H. Norton and D. L. Bacon. il diags U S Nat Advisory Com for Aeronautics 1922:449-71 '23
Reaction of a stream of viscous fluid on a rotating circular cylinder. A. R. Low. Roy Aeronautical Soc J 46:100-4, 141-4 F-Mr '25
Recent progress in the science of aeronautics. J. S. Ames. J Fr Inst 199:83-90 Ja '25
Report of the committee on aerodynamics. U S Nat Advisory Com for Aeronautics 1922:9-22 '23
Resistance of spheres in wind tunnels and in air. D. L. Bacon and E. G. Reid. bibliog il diags U S Nat Advisory Com for Aeronautics 1923:471-87 '24
Simple aerodynamics and the airplane. C: N. Monteith. 299p [bibliog. p. 298-9] U.S. Air service, War dept., Washington '24
Skin friction. L. Bairstow. Roy Aeronautical Soc J 29:3-14; Discussion. 15-23 Ja '25; Abstract. Engineering 118:742, 831 N 28, D 19 '24
Strength of rigid airships. C. P. Burgess, J. C. Hunsaker and S. Truscott. [bibliog. p. 422-7] il diags Roy Aeronautical Soc J 28: 327-448 Je '24
Transmission of air-waves through pipes. L. F. G. Simmons and F. C. Johansen. diag Philos Mag 6th ser 50:553-70 S '25
Two-dimensional motion of a lamina in a resisting medium under the action of a propeller thrust. S. Lister. diags Philos Mag 6th ser 46:819-27 N '23
Vortex motion behind a circular cylinder. R. C. J. Howland. diags Roy Aeronautical Soc J 29:189-95 Ap '25
Wind-channels in aerodynamics. N. K. Bose. Philos Mag 6th ser 49:808-17 My '25
Work of the aeronautical research committee's panel on scale effect. W. S. Farren. Roy Aeronautical Soc J 28:526-44; Discussion. 544-50 Ag '24
Zur aerodynamik des magnuseffektes. Sandel. diags Zeit Ver Deutsch Ing 69:727-8; Discussion. 728-9 My 23 '25

See also Aeronautics; Air flow; Magnus effect; Winds

AEROFIN
Aerofin, the new non-corrosive air heater. il diags Heat & Ven 20:53-4 N '23

AEROFOILS. See Airplane wings

AERONAUTIC engineering
Aeronautical engineering at McCook field. Mech Eng 47:790-9 O '25
Aeronautics in naval architecture. J. C. Hunsaker. Engineering 118:722-3 N 21 '24; Abstract, with discussion. Marine Eng 29: 725-8 D '24
XXIX[e] session de l'Association technique maritime et aéronautique (Paris, 25-27 mai 1925). Génie Civil 86:624-6 Je 27 '25

See also Aeronautic research; Aeronautics; Air routes; Airplane engines; Airplanes; Airships; Aviation

AERONAUTIC federation, International. See International aeronautic federation

AERONAUTIC instruments
Diaphragms for aeronautic instruments. M. D. Hersey. il diags U S Nat Advisory Com for Aeronautics 1923:157-86 '24
Indicateur acoustique de vitesse relative pour aéronef. A. de Gramont de Guiche. diag Génie Civil 86:67-8 Ja 17 '25
Practical navigation of aircraft. F. Tymms. il diags Roy Aeronautical Soc J 29:210-27; Discussion. 233-9 My '25
Recent developments in aircraft instruments; annual report of Bureau of standards. Aviation 16:125-6 F 4 '24
Some recent developments in aircraft instruments. H. E. Wimperis. il charts diags Roy Aeronautical Soc J 28:3-29, 45-8 Ja-F '24; Discussion. 28:29-34 Ja '24

See also Accelerometer; Aerodynamic balances; Air speed indicators; Altimeters; Compass; Manometers; Oxygen apparatus; Radio compass; Radio telegraph in aviation

Manufacture
Drilling and milling fixtures for airplane-instrument work. C: F. Henry. il Am Mach 61:853-4 N 27 '24

Standards
Standardized vertical instruments. diags Aviation 19:275 S 7 '25

AERONAUTIC maps
Charting America's airways. maps Aviation 16:364-6 Ap 7 '24
Practical navigation of aircraft. F. Tymms. Roy Aeronautical Soc J 29:203-10; Discussion. 233-9 My '25

AERONAUTIC research
Aeronautic research to be undertaken by American engineering council. Mech Eng 47: 518 Je '25
Relation between aeronautic research and aircraft design. J. S. Ames. il diags U S Nat Advisory Com for Aeronautics 1923:59-71 '24
Relation of aeronautic research to national defense. J. S. Ames. Sibley J 38:12-13+ Ja '24
Report of the aeronautical research committee for the year 1924-1925. Engineering 120: 265 Ag 28 '25
Research laboratories in aeronautics at New York university; what the Guggenheim gift will mean. il Am Mach 63:237-9 Ag 6 '25
Some recent work of the aeronautical department, National physical laboratory. R. V. Southwell. il diags Roy Aeronautical Soc J 29:146-64; Discussion. 164-7 Ap '25
Use of the light planes in aeronautical research. W. L. Lepage. Aviation 17:1169-70 O 20 '24
Work of the fatigue panel of the aeronautical research committee. C. F. Jenkin. Engineering 118:245 Ag 15 '24; Abstract. Mech Eng 46:908-9 D '24; Discussion. Engineering 118:284-5 Ag 29 '24

See also Aerodynamic laboratories; Wind tunnels

AERONAUTIC societies
Commercial aircraft association of Akron, Ohio. Aviation 16:699-700 Je 30 '24
French aeronautical societies. W. L. Marsh. Roy Aeronautical Soc J 28:644-6 N '24

See also Aeronautical chamber of commerce; International aeronautic federation; National aeronautic association

AERONAUTICAL board. See United States—Aeronautical board

AERONAUTICAL chamber of commerce of America, inc.
Annual report. Aviation 16:148-50 F 11 '24
N.A.A. and the A.C.C.A.; closer cooperation is desirable. Aviation 16:591-2 Je 2 '24

AERONAUTICS
Aircraft observations of eclipse. Aviation 18: 133 F 2 '25
Aircraft year book, 1925. 316p Aeronautical chamber of commerce of America, inc., New York '25
Considérations générales sur la météorologie et ses applications; application à l'aéronautique. P. Renard. Génie Civil 86:491-2 My 16 '25
Les effets du vent, en aviation. A. Lainé. diags Génie Civil 84:112-13 F 2 '24
Elementary aeronautical science. I. B. Hart and W. Laidler. 288p Oxford '23
Flying from an engineering standpoint. G. Loening. Aviation 17:1224-7 N 3 '24
Fuel economy in flight. H. T. Tizard. Roy Aeronautical Soc J 28:604-24 O '24; Abstract. Engineering 117:738 Je 6 '24
Manoeuvres of inverted flight. R. M. Hill. diags Roy Aeronautical Soc J 27:569-602; Discussion. 602-5 D '23
Mechanical investigations of Leonardo da Vinci. I. B. Hart. 240p Open court pub. co., Chicago '25
La navigation aérienne guidée par un champ électromagnétique. Génie Civil 84:623-5 Je 28 '24

AERONAUTICS—*Continued*

Papers on aeronautics read before the American society of mechanical engineers. Iron Age 114:1546 D 11 '24

Practical navigation of aircraft. F. Tymms. il diags map plan Roy Aeronautical Soc J 29:202-33; Discussion. 233-9 My '25

Recent progress in the science of aeronautics. J. S. Ames. J Fr Inst 199:83-90 Ja '25

Some aeronautical problems. R. V. Southwell. il Engineering 120:471-3, 510 O 16-23 '25

Some aspects of aeronautical progress. F. H. Sykes. Roy Aeronautical Soc J 27:606-17 D '23

Study of airplane maneuvers with special reference to angular velocities. H. J. E. Reid. il U S Nat Advisory Com for Aeronautics 1922:561-70 '23

Tagung über luftfahrt gelegentlich der hauptversammlung des VDI, Hannover. il diags Zeit Ver Deutsch Ing 68:926-8 S 6 '24

Vertical, longitudinal, and lateral accelerations experienced by the S.E.5A. airplane while maneuvering. F. H. Norton and T. Carroll. il U S Nat Advisory Com for Aeronautics 1923:135-7 '24

With the men who fly; recent achievements in practical aviation. A. Klemin. il Sci Am 129: 226-7+, 326-7; 130:26-7+ O-N '23, Ja '24

See also Aerodynamic laboratories; Aerodynamics; Air ports; Air routes; Aircraft industry; Airplane carriers; Airplane engines; Airplane propellers; Airplane stability and stabilizers; Airplanes; Airships; Aviation; Aviators; Balloons; Flying boats; Forest fire patrol, Aerial; Gliders; Helicopters; Hydroplanes; Langley flying machine; Photography, Aerial; Postal service, Aerial; Radio telegraph in aviation; Radio telephone in aviation; Seaplanes; Surveying, Aerial; Torpedoplanes; Winds

Bibliography

Some recent articles. Roy Aeronautical Soc J 28:43-4 Ja '24

Technical publications of the committee. U S Nat Advisory Com for Aeronautics 1922:36-46 '23

Exhibitions

Aeronautics at the British Empire exhibition. il Engineering 117:550-3, pl 51-2 Ap 25 '24

Air ministry's exhibits at Wembley. Engineer 140:66-7 Jl 17 '25; Engineering 120:81 Jl 17 '25

Munich aero show. il Aviation 19:389-90 S 28 '25

La IXe exposition internationale de l'aéronautique (Paris, 5-21 décembre 1924). A. Lesage. il diags Génie Civil 85:537-48, 571-9, pl 5 D 13-20 '24

Ninth Paris aeronautic salon. J: J. Ide. il Aviation 18:70-3 Ja 19 '25

Royal air force aerial pageant. il Automobile Eng 14:198-200 Jl '24

Experiments

See Aeronautic research

History

Early reminiscences of the Wright brothers. C: R. Flint. il Aviation 15:797-8 D 31 '23

History of aeronautics in Great Britain, from the earliest times to the latter half of the 19th century. J. E. Hodgson. 436p [bibliog. p. 387-415] Oxford '24; Review. Roy Aeronautical Soc J 29:48-50 Ja '25

Some notes on Sir George Cayley as a pioneer of aeronautics. J. E. Hodgson. Roy Aeronautical Soc J 27:371-80 Ag '23; Same cond. Aviation 15:744-7 D 17 '23

Wright-Langley controversy. O. Wright; C: D. Walcott. il Aviation 18:550-1, 642 My 18, Je 8 '25

Wright-Langley dispute revived. J: Goldstrom. Am Ind 25:29-30 Je '25

Laws and regulations

Air legislation in the United States. C. G. Grey. Aviation 17:1302-3 N 24 '24

Aviation in Congress. Aviation 16:361-2, 425-6 Ap 7, 21 '24

Curry bill. Aviation 17:1462 D 29 '24

Freedom of the air; an important court ruling. il Aviation 16:116-17 F 4 '24

International requirements for airworthiness. Aviation 17:777-8 Jl 21 '24

Loi du 31 mai 1924 relative à la navigation aérienne. A. Lainé. Génie Civil 85:44-5 Jl 12 '24

Marginal notes on the Winslow bill. E. D. Osborn. Aviation 18:212-13 F 23 '25

Modified Winslow bill. Aviation 17:866 Ag 11 '24

National and international air legislation. P. Crichton. Aviation 16:418-20, 448-51 Ap 21-28 '24

N.Y. state air navigation bill. Aviation 16:233 Mr 3 '24

Opinions on national air legislation. Aviation 17:1326-7, 1368-9, 1400-1; 18:161 D 1-15 '24, F 9 '25

Ordinance regulating air traffic in Galveston, Texas. Eng & Contr (R & S) 62:495 S 3 '24

Police urge regulation of aircraft. Aviation 19:246 Ag 31 '25

Rules for air traffic. Aviation 17:1171 O 20 '24

Periodicals

See also United States air services (periodical)

Safety devices and measures

See Aviation—Safety devices and measures

Standards

25 new proposals laid before S.A.E. standards committee. Automotive Ind 25:1065-7 Je 18 '25

Study and teaching

Aeronautics to be taught at N.Y. university. Aviation 15:654-5 N 26 '23

M. I. T. aeronautical course; the pioneer American course in aeronautical engineering. Aviation 19:42-3 Jl 13 '25

N.Y.U. aero course endowed by Daniel Guggenheim. Aviation 18:692 Je 22 '25

Tables, calculations, etc.

Reliable formulae for estimating airplane performance and the effects of changes in weight, wing area, or power. W. S. Diehl. U S Nat Advisory Com for Aeronautics 1923:261-80 '24; Excerpt. Aviation 16:127 F 4 '24

Tail plane. M. M. Munk. U S Nat Advisory Com for Aeronautics 1922:53-87 '23

See also Airplanes—Design; Airships—Design

Terminology

Nomenclature for aeronautics. il diags U S Nat Advisory Com for Aeronautics 1922: 617-75 '23

Alaska

Blazing the air mail path in Alaska. C. B. Eielson. il map Aviation 16:394-6 Ap 14 '24

Argentina

Argentine aviation. Aviation 19:15 Jl 6 '25

Canada

Further notes on aviation in Canada. C. W. Stedman. il diags Roy Aeronautical Soc J 28: 585-94 S '24

China

Chinese aviation. G. W. Northridge. Aviation 18:725 Je 29 '25

France

Editor of L'Aeronautique, visiting U.S., describes aviation in France. H: Bouche. Aviation 19:176-7 Ag 17 '25

French aeronautical societies. W. L. Marsh. Roy Aeronautical Soc J 28:644-6 N '24

French aircraft construction in 1923. il Aviation 17:938-9 S 1 '24

AERONAUTICS—*Continued*

Great Britain

Aeronautics in 1923. il (supp) Engineer 137:22-4, 36-8 Ja 4-11 '24
Aeronautics in 1924. il (supp) diags Engineer 139:18-22 Ja 2 '25
Commonsense and aeronautics. H. T. Tizard. Roy Aeronautical Soc J 28:632-9; Discussion. 639-43 N '24

Honduras

Aviation in Honduras. C. V. Pickup. Aviation 19:96-7 Jl 27 '25

Japan

British aviation mission to the imperial Japanese navy. il Roy Aeronautical Soc J 28: 553-82; Discussion. 582-4 S '24

United States

Aero club makes report of year's progress in Columbus. Aviation 19:216 Ag 24 '25
American aeronautical accomplishments in 1923. Aviation 16:38-9 Ja 14 '24
Conditions affecting aeronautic progress. C. M. Keys. Soc Auto Eng J 17:448-51 N '25
Impression of aviation in America. C. G. Grey. Aviation 17:1082-3 O 6 '24
Post impressions of American aviation. C. G. Grey. Aviation 17:1395-7 D 15 '24
Report of American legion's air committee. Aviation 15:656-7 N 26 '23
Suggested national air policy. Aviation 17:760 Jl 14 '24; Discussion. 17:889, 914, 945, 966, 992; 18:20, 162 Ag 18-S 15 '24, Ja 5, F 9 '25
What aircraft have done in a year. F. H. Russell. il Am Ind 24:15-17 My '24

See also Aeronautics, Commercial—United States; Aeronautics, Military—United States; Postal service, Aerial; *also* National aeronautic association of the United States

AERONAUTICS, Commercial

Aerial transportation. L. A. Bryan. 153p [bibliog. p. 147-9] Anderson press, Winfield, Kan. '25
Air transport must pay dividends. W. B. Stout. il Soc Auto Eng J 13:511 D '23
Air transport reliability. A. Black. Annalist 26:411+ O 2 '25
Airplane in commerce. Bradstreet's 53:475 Jl 18 '25
Barnstorming and making money. Aviation 16:397-8 Ap 14 '24
Commercial aviation. A. A. G. Fokker. Soc Auto Eng J 14:231-2 F '24
Commercial aviation in 1923; abstracts. E. P. Warner. Aviation 15:706-8 D 10 '23; Automotive Ind 49:1064-5 N 22 '23; Soc Auto Eng J 14:457-62 Ap '24; Discussion. Soc Auto Eng J 15:133-9 Ag '24
Commercial aviation offers a new field for the skill and inventive genius developed in shipping. C. A. McAllister. Marine Eng 30: 69-70 F '25
Community aviation. W: B. Smith. Aviation 19:356 S 21 '25
Dominant factor in air transportation. D. Huntington. Aviation 17:722-3 Jl 7 '24
Duke of Sutherland's impressions; America is behind England in commercial air transport. Aviation 16:67-8 Ja 21 '24
For sale: speed—who will buy? C. A. Tinker. il diag Nation's Business 13:13-15 Ja '25
Ford sees new air epoch. Aviation 19:486 O 12 '25
Frontier facts in air transportation. J. P. Van Zandt. diags maps Aviation 19:677-81 N 9 '25; Same, without summary. Soc Auto Eng J 17:354-8 O '25; Abstract. Eng & Contr (G C) 64:903 O 21 '25
Germany leads in the airways. R: Spillane. Comm & Fin 14:1542 Ag 12 '25
How many employees are required to operate an airline? A. Black. Automotive Ind 53: 380-3 S 3 '25
International air transportation. L. d'Orcy. map Aviation 18:514-16 My 11 '25
Introduction to the economics of air transportation. T: H. Kennedy. 154p Macmillan '24
Is aviation starting to repeat auto history? E. V. Rickenbacker. Sales Management 8: 859-60+ Je 13 '25
Practical difficulties of commercial flying. F. T. Courtney. Roy Aeronautical Soc J 28:35-41 Ja '24
Progress of aviation. Index p 10-11 S '25
Record attendance at aeronautic session of S. A. E. annual meeting. il Automotive Ind 50:230-1 Ja 31 '24
Record of progress on the air-lanes of commerce. A. C. Lescarboura. il maps Dun's Int R 46:37-42 S '25
Watching the dawn of commercial aviation. L. D'Orcy. Aviation 17:1198-9 O 27 '24
We'll all fly—but when and how? R. C. Willoughby. il Nation's Business 13:16-19 Ag '25
What airplanes are doing to railroads abroad. C: Dillon. il map Ry R 77:231-3 Ag 15 '25
Why we have faith in aircraft. E. B. Ford. Nation's Business 13:22 My '25
World economic survey of air transportation. Aviation 19:153 Ag 10 '25; Am Ind 26:27 Ag '25

See also Air ports; Air routes; Airplanes in agriculture; Airplanes in mining; Fish patrol, Aerial; Photography, Aerial; Skywriting; Surveying, Aerial; *also* Commercial aircraft association, Akron, Ohio

Accounting

Cost accounting in aerial transportation. E. D. Osborn. Aviation 15:628-30 N 19 '23

Costs

Air transport costs. Aviation 19:11 Jl 6 '25
Air transport investment and operating cost. A. Black. map Automotive Ind 53:456-9+ S 17 '25
Airline investment and operating costs. A. Black. plans Aviation 19:118-20, 151-3 Ag 3-10 '25
Business side of air transport. A. Black. Annalist 26:543+ O 30 '25
Commercial possibilities of the airplane. A. Black and D. R. Black. Mech Eng 46:133-7; Discussion. 137 Mr '24
Detroit-Chicago costs. Aviation 19:125 Ag 3 '25
Fundamental requirements for commercial aviation. W. B. Stout. Soc Auto Eng J 17: 455-8; Discussion. 422-3 N '25
Proposed American air line. H. Barber. Aviation 18:549 My 18 '25

Canada

Civil aviation in Canada. Aviation 18:724-5 Je 29 '25

Europe

Air traffic in Europe. il map Sci Am 133:8-9 Jl '25
Close view of continental air development. il Aviation 19:276-8 S 7 '25
Progress of air transport in Europe. il Aviation 18:270-1 Mr 9 '25

France

Advent of the big air liner; the air transport situation in France reviewed on the spot. L. d'Orcy. il Aviation 18:408-10 Ap 13 '25
French airlines actually in service, July 1, 1925. map Aviation 19:360 S 21 '25
Le régime français des primes aux transports aériens et le nouveau cahier des charges. Génie Civil 84:434 My 3 '24
Les services d'aviation entre la France et l'Afrique du Nord. Génie Civil 83:625-6 D 22 '23

Germany

Air transport in Germany. Aviation 16:204 F 25 '24

Great Britain

Britain's aircraft monopoly. Am Ind 24:42-3 Jl '24
Evolution of British airway subsidies. Aviation 16:284 Mr 17 '24

AERONAUTICS, Commercial—Great Britain —*Continued*
Progress of civil aviation. Aviation 17:1338-9 D 1 '24; Engineering 118:231-2; 120:421 Ag 15 '24, O 2 '25

Russia

Air lines operated at the present in Russia. Aviation 19:398+ S 28 '25
Russian air activities. Aviation 16:431 Ap 21 '24

United States

Adequate landing-fields will develop a commercial-aviation industry. A. A. G. Fokker. Soc Auto Eng J 14:504-6+ My '24; Discussion. 14:607-8 Je '24
Administration's air policy. Aviation 18:637 Je 8 '25
Airways soon to be used by American railway express. O. D. Foster. il Forbes 16: 168-70+ My 15 '25
At the Ford airport. F. C. Hudson. Am Mach 63:734 N 5 '25
Beginning of American air transport. Ry R 77:556 O 10 '25
Civil aviation in the United States. C. G. Grey. il Aviation 18:16-17 Ja 5 '25
Commercial aviation. Index p 11-13 Je '25
Commercial aviation and its development in the United States. R. E. M. Cowie. Econ W n s 30:4-5 Jl 4 '25
Detroit's ambitious aeronautical program; Packard, Ford, Coffin, Stout, Upson and Verville have large plans. Aviation 18:461 Ap 27 '25
Hoover would have government aid aviation as it does shipping. A. E. Heiss. Nat Pet N 17:43-4 O 14 '25
How the War department retards flying. Aviation 18:523 My 11 '25
Is the automobile industry destined to lead in air development? J: C. Gourlie. il Automotive Ind 52:767-9 Ap 30 '25
Is the to-morrow of commercial aviation almost here? N. M. Clark. il Forbes 16:813-15+ S 15 '25
Lessons of the Pacific flight. A. Klemin. il Sci Am 133:340-1 N '25
Modern planes vs. war surplus equipment. E. D. Osborn. il Aviation 18:47-8 Ja 12 '25
National air transport organized. il Aviation 18:598-600 Je 1 '25; Automotive Ind 52: 962 My 28 '25
N.A.T. to begin service with Curtiss planes. H. Coffin. il Aviation 19:183 Ag 17 '25
Outlook for American civil aviation. P. E. D. Nagle. Marine Eng 30:133-4 Mr '25
Proposed American air line. H. Barber. Aviation 18:549 My 18 '25
Reliability as a factor in air-transportation efficiency. J. P. Van Zandt. Soc Auto Eng J 17:433-6 N '25
San Francisco to have taxiplane service; Varney air service merges with Checker cab. co. Aviation 18:214-15 F 23 '25
To fly or not to fly; drawbacks and possibilities of air transport. R. Rohlfs. Aviation 16:506-7 My 12 '24
U.S. air commerce takes a drop. Am Ind 26: 5-6+ S '25

See also Aircraft industry—United States; Airplane industry and trade—United States

AERONAUTICS, Military
Air power and naval conservatism. W. F. Fullam. Aviation 16:259-60 Mr 10 '24; Discussion. D. W. Knox. 16:334-5 Mr 31 '24
Air power and war rights. J. M. Spaight. 493p Longmans '24
Comments on aviation—naval and commercial. E. S. Land. Marine Eng 28:748-9; Discussion. 749-50 D '23
Development in naval aeronautics. H. C. Richardson. il diags Soc Auto Eng J 15:412-17 N '24; Discussion. 16:361-6 Mr '25
L'éclairage des avions pendant la nuit à l'aide d'un faisceau de projecteur électrique. J. Rey. diags Soc Ing Civils Bul 76:877-908 Jl '23
Hooking an airplane to an airship; experiments show the practicability of both landing at and taking off an airship. Aviation 18:378-9 Ap 6 '25
Military aircraft and their use in warfare. M. M. Patrick. J Fr Inst 199:51-63 Ja '25
Mission of naval aircraft with the fleet. H. C. Richardson. il Aviation 17:1364-5 D 8 '24
Naval air battle of the future. M. H. McIntyre. Aviation 18:608 Je 1 '25
Relation of air power to sea power. D. W. Knox. Aviation 16:225-7 Mr 3 '24
Sound reception as applied to air defence. W. S. Tucker. il diags Roy Aeronautical Soc J 28:504-21; Discussion. 521-5 Ag '24
Value of naval aeroplanes. W. Hovgaard. Engineering 116:743-4 D 14 '23
Winged defense. W: Mitchell. 261p Putnam '25

See also Airplanes, Military; Bombs, Aerial; Smoke screens; Torpedoplanes; United States—Air service

Bibliography

Aircraft—battleships—submarines; relative value. A. R. Blessing, comp. Lib J 50:31-2 Ja 1 '25

Canada

Canadian government requirements for aircraft. il Aviation 18:49-50 Ja 12 '25

France

See also France—Air service

Great Britain

Status of the Royal air forces. C: G. Grey. Aviation 19:582 O 26 '25

United States

Aircraft and the Hawaiian maneuvers. Aviation 18:690-1 Je 22 '25
Aircraft developments in the United States. Engineering 118:490-1 O 3 '24
Boston airport and coast defense policy. P. Adams. Aviation 16:339 Mr 31 '24
Investigation of the Lampert committee. Aviation 18:50-1 Ja 12 '25
Navy ready for Hawaiian flight on August 28. il Aviation 19:174-5 Ag 17 '25
PN9 no. 1 on West coast-Hawaiian flight. il Aviation 19:315-17, 350-2 S 14-21 '25
United States and rigid airships. Engineer 139:455 Ap 24 '25
What really happened in Hawaiian maneuvers. G. Brant. Aviation 19:66-8 Jl 20 '25

AEROPLANES. See Airplanes

ÆSCULIN. See Esculin

ÆSTHETICS. See Esthetics

AETNA life insurance company
Annual statement. Econ W n s 29:422-3 Mr 21 '25

AFRICA

See also Banks and banking—Africa; Railroads—Africa

AFRICA, British West

Commerce

British West Africa. T: R. Wilson. U S Bur For & Dom Com Trade Information Bul 331:1-36 '25

AFRICA, East

See also Electric plants (central stations) —Africa, East

AFRICA, North
African afterthoughts. S: Chamberlain. il Am Arch 127:485-90 Je 3 '25

AFRICA, Portuguese West
Portuguese West Africa (Angola). E. A. Welden. U S Bur For & Dom Com Trade Information Bul 254:1-13 '24

AFRICA, West
French possessions in tropical Africa. E. A. Welden. U S Bur For & Dom Com Trade Information Bul 239:1-22 '24

AGAR-agar
Note on the use of dyes in agar media. M. Levine. Am Water Works Assn J 14:267-72 S '25

AGAR-agar—*Continued*
Studies in swelling; the swelling of agar-agar gels as a function of water content before swelling. B. L. Clarke. Am Chem Soc J 47: 1954-8 Jl '25

AGE
Age limits and physical examination of employees. J Elec 54:237-40 Ap 1 '25
Is the salesman over forty a "has been"? A. H. Deute. Ptr Ink 132:41-2+ Ag 27 '25
What is the older man's place on the sales force? F. L. Scott. Ptr Ink 127:33-4+ Je 19 '24

AGENCIES, Advertising. See Advertising agencies

AGENCIES, Mercantile. See Mercantile agencies

AGENCY (law)
Agents and agencies. N. Isaacs. Harvard Business R 3:265-74 Ap '25
Cases on principal and agent, and master and servant, selected from decisions of English and American courts. E. C: Goddard. 2d ed. 944p [bibliog. p. v-vii] West publishing co., St Paul '25
Cases on the law of agency. E. R. Keedy. 823p Bobbs '24
Outlines of the law of agency. F. R. Mechem. 3d ed. 542p Callaghan & co., Chicago '23
Selected cases on the law of agency. F. R. Mechem, ed. 2d ed, by W. A. Seavey. 845p Callaghan and co., Chicago '25
Selection of cases on agency. E. Wambaugh. 2d ed. 1173p Harvard univ. press, Cambridge '25

See also Advertising agencies—Law; Brokers; Partnership

AGENTS, Insurance. See Insurance agents

AGENTS, Manufacturers'. See Manufacturers' agents

AGGREGATE. See Concrete—Aggregate

AGITATION
Heat transfer vs. agitation. D. E. Pierce and P. B. Terry. Chem & Met Eng 30:872-3 Je 2 '24
Mixing devices and reaction time. C: P. Hoover. Am Water Works Assn J 11:582-97 My '24

AGITATORS
Agitating and mixing; how to use the steam jet for stirring and agitating. S. G. Ketterer. il diags Chem & Met Eng 29:1060-1 D 10 '23
Agitator drive. il diag Chem & Met Eng 31: 589 O 13 '24
Methods of breaking up scum in Imhoff tanks. A. P. Learned. diags plans Eng & Contr (W W) 62:1277-9 D 10 '24
Steam jet agitator for thick liquids. diag Chem & Met Eng 32:454 Ap '25
Traveling slurry agitator in cement plant. il Concrete (cement mill sec) 26:18-19 F '25

See also Emulsifiers; Stirrers

AGRICULTURAL chemistry
Agricultural chemistry as a career. N. M. Comber. Soc Chem Ind J (Chem & Ind) 44: 114-15 Ja 30 '25
Chemie der pflanzenstoffe. G: Trier. 605p Gebrüder Borntraeger, Berlin '24
Chemistry in its relation to agriculture. E. Holmes. Chem Age (Lond) 12:157 F 14 '25
Chimie agricole. J. H. C. Fabre. 248p Delagrave, Paris '25
How chemistry helps solve livestock problems. J: R. Mohler. Am Inst Chem Eng Trans v 15 pt 2:185-91 '23

See also Dairy chemistry; Feeding and feeding stuffs; Fertilizers; Insecticides; Plant growth; Soil acidity; Soil analysis; Soils; Spraying materials
Consult Agricultural Index for additional references

AGRICULTURAL clubs
Club idea in rooms and potatoes. H. B. Winsor. Burroughs Clearing House 8:25-6 Ap '24
Measure of success in club work. C: F. Koontz. Burroughs Clearing House 8:13-14+ Mr '24

AGRICULTURAL colleges
Services of American agricultural colleges. A. C. True. Ann Am Acad 117:88-93 Ja '25

AGRICULTURAL colonization
California's land settlement at Delhi. N. A. Bowers. il Eng N 95:143-5 Jl 23 '25
Colonization schemes in Panama and Guatemala. Monthly Labor R 20:718-19 Mr '25
Land settlement in Canada and in Australia. Monthly Labor R 18:393-6 F '24
Practical policies of land colonization. B. F. Faast. J Land & Pub Util Econ 1:300-4 Jl '25
Relation of land settlement to irrigation. E. Mead. W Soc E J 29:241-6 Je '24
White Bluffs-Hanford land settlement experiment. H. W. Cooper. il J Elec 54:313-15 My 1 '25
White Bluffs-Hanford land settlement in Washington. Eng N 95:765 N 5 '25

See also Farm communities association; Veteransville, Minnesota

AGRICULTURAL cooperative credit associations
Model rules for an agricultural credit society approved by the Minister of agriculture and fisheries. 17p Gt. Brit. Ministry of agric. and fisheries, London '23

AGRICULTURAL credit
Agricultural credit corporation and Agricultural securities corporation formed to assist in financial relief of Northwest. Comm & Fin Chr 118:957-8, 1087 Mr 1-8 '24
Agricultural credit facilities—are they ample? A. D. Welton. Ann Am Acad 117:69-77 Ja '25
Agricultural credit in France. Int Labour R 11:852-4 Je '25
Agricultural securities corporation. Nat City Bank p 122-3 Ag '24
Bank credit in relation to the financing of the present season's crop movement. Econ W n s 30:547-9 O 17 '25; Same. Fed Res Bul 11:711-14 O '25
Criticism by farmer members of American institute of co-operation of high interest rates charged by bankers. Comm & Fin Chr 121:1175-6 S 5 '25
Dead letter in rural credits. L. Alexander. Am Bankers Assn J 17:391 D '24
Farm credits in the United States and Canada. J. B. Morman. 406p Macmillan '24
Farm loan banking. 39p First national corp., Boston '24
Federal reserve aid in behalf of farmers. W. P. G. Harding. Comm & Fin Chr 117:2282-3 N 24 '23
Financing long-term credits for agriculture by the use of state credit in South Dakota and Minnesota. Comm & Fin Chr 120:655 F 7 '25
First national livestock loan corporation is set up. R. A. Lewis, jr. Am Bankers Assn J 18:170-1 S '25
Great northwestern thaw. W: H. Dean. il Nation's Business 12:22-5 O '24
Hoodwinking the farmer; recent credit legislation a fiasco. H. P. Willis. Annalist 22:723-4+ D 3 '23
Interim report real estate securities committee on agricultural credit conditions. L: K. Boysen. I B A of A 12:263-7 My 24 '24
Loans extended by Agricultural credit corporation. Comm & Fin Chr 119:29-30, 894-5 Jl 5, Ag 23 '24
New links between banking and insurance. Am Bankers Assn J 17:731 Je '25
Pacific national agricultural credit corporation chartered in interest of cattle raisers in California, Nevada, Arizona, etc. Comm & Fin Chr 121:663 Ag 8 '25
Providing capital for agriculture. G. G. Munn. Bankers M 109:649+ O '24
Rural credit legislation. W. F. Mitchell. Univ J of Business 2:1-21 D '23
Safer credits by crop contracts. G: H. Bell. Am Bankers Assn J 16:474+ F '24
South Dakota's land loan collapse. C: M. Harger. Annalist 26:445-6 O 9 '25

AGRICULTURAL credit—*Continued*
Too much credit for the farmer. H. Hornaday. Credit M 26:7-8 My '24; Same. Econ W n s 27:762-4 My 31 '24
What the Agricultural credit corporation has done. J. R. Howard. Am Bankers Assn J 17: 182-3+ S '24
Wide difference in money and interest rates on agricultural loans. Comm & Fin Chr 121:1417 S 19 '25

See also Federal farm land banks; Federal farm loan bureau; Intermediate credit banks

AGRICULTURAL education
Higher agricultural education of the future. E. Marchal. (Reprint & Circ. Ser. 51) 6p '24 20c National research council, 1701 Massachusetts av, Washington, D.C.

AGRICULTURAL engineering
Dairy engineering. J: T: Bowen. 532p Wiley '25

AGRICULTURAL experiment stations
Department of agriculture to grow rubber at New Mexico field station. Rubber Age 17: 150 Je 10 '25
Vast source of information on new uses and new markets. Ptr Ink 127:17-20 Je 5 '24

AGRICULTURAL insecticide and fungicide manufacturers' association
A.I. & F.M.A. is told about shipping rules. Oil Paint & Drug Rep 107:32+ Je 22 '25
Annual convention, New York, July 14. Oil Paint & Drug Rep 108:22+ Jl 20 '25
Organization, New York city, July 15. Oil Paint & Drug Rep 106:19 Jl 21 '24

AGRICULTURAL insurance. See Insurance, Agricultural

AGRICULTURAL labor. See Farm labor

AGRICULTURAL laws and legislation

Alabama

Alabama codifies its agricultural laws. W. D. Hurd. Chem & Met Eng 30:425 Mr 17 '24

United States

Case for the McNary bill. C. C. Davis. Nation's Business 12:52+ My '24
Congress, Coolidge and the farmer. J. E. Boyle. Comm & Fin 14:11-12 Ja 7 '25
Fallacy of price fixing; the McNary bill. G: E. Roberts. Nation's Business 12:14-15 Ap '24
Farmers' problem and the dangerous class legislation embodied in the McNary-Haugen bill. B. M. Anderson, jr. Econ W n s 27:400-2, 439-41 Mr 22-29 '24; Same. Chase Econ Bul 4:1-17 My '24
Farmers' relief measures. Nat City Bank p 38-41 Mr '24
McNary-Haugen bill. Nat City Bank p 71-8 My '24
McNary-Haugen bill proposing agricultural export association. Comm & Fin Chr 118: 1088, 1337-9, 1980 Mr 8, 22, Ap 26 '24; Bradstreet's 52:215 Mr 29 '24
The McNaryhaugenwocky. Comm & Fin 13: 837 Ap 30 '24
More aid for agriculture; provisions of the McNary-Haugen bill. Index p 3-7 Mr '24
Opposed to the McNary-Haugen bill. Am Bankers Assn J 16:696-8 My '24
Report and recommendations on agricultural legislation made to President Coolidge by agricultural conference. Comm & Fin Chr 120:531-3 Ja 31 '25
Why the crop purchasing plan will fail. G: E. Roberts. Am Bankers Assn J 16:694-5 My '24; Same. Econ W n s 27:760-2 My 31 '24

AGRICULTURAL machinery
Farm equipment for mechanical power. F. N. G. Kranich. 405p Macmillan '23
Machinery on the farm means less drudgery and more profits. E. L. D. Seymour. il Dun's Int R 45:41-4 Mr '25
Machines and implements adapted for the small farm. E. L. D. Seymour. il Dun's Int R 46:43-6 S '25
Das problem der maschinellen einzelkornsaat. G: Kühne. il diags Zeit Ver Deutsch Ing 68:113-18 F 9 '24
Saving labor on the farm. E. L. D. Seymour. il Dun's Int R 43:41-3 Ag '24
Use of power on American farms. Index p 6-7 O '25

See also Agricultural engineering; Cultivators, Motor; Dairy machinery; Harvesting machinery; Plows; Plows, Motor; Threshing machines; Tractors

Consult Agricultural Index for additional references

Exhibitions

Agricultural engineering exhibits at the British Empire exhibition. Engineering 118:382-3 S 12 '24
Electricity at the Paris agricultural machinery show. R. B. Matthews. il Elec R (Lond) 94:326-7 F 29 '24
Les expositions agricoles d'hiver (Paris, 1924): essais des tracteurs agricoles à gazogènes du Concours d'Essonnes (1923). G. Coupan. il diags Génie Civil 84:337-45, 380-4 Ap 12-19 '24
Die kraftpflüge auf der letzten Pariser landmaschinenausstellung. Vormfelde. il diags Zeit Ver Deutsch Ing 68:1097-1100 O 18 '24
Landwirtschaftliche maschinen auf der wanderausstellung in Hamburg. G. Fischer. il diags Zeit Ver Deutsch Ing 68:1329-35 D 27 '24
Le IV[e] salon de la machine agricole (Paris, 17-25 janvier 1925). G. Coupan. il diags Génie Civil 86:437-40, 463-6 My 2-9 '25
Royal agricultural society's show, Chester, July 7-11. il diags Engineer 140:34-6, 60-2 Jl 10-17 '25; Engineering 120:42-5, 69-73, 104-6 Jl 10-24 '25; Electrician 95:62-3 Jl 17 '25; Elec R (Lond) 97:86, 128-9 Jl 17-24 '25
Royal agricultural society's show, Leicester. il diags plan Engineer 137:714-15; 138:11-12, 50-2, 80-2 Je 27-Jl 18 '24; Engineering 118: 20-3, 59-61 Jl 4-11 '24
Smithfield club show. il Engineer 138:666-7 D 12 '24; Engineering 118:807 D 12 '24
Smithfield show, London, Dec. 10-14. Engineering 116:749-50 D 14 '23

Manufacture

Farms depend on castings shop; the iron foundry of Massey-Harris co. P. Dwyer. il Foundry 53:193-5 Mr 1 '25
Press work in agricultural machinery plants. C. C. Hermann. diags Mach 31:938-40; 32: 120-2, 218-19 Ag, O-N '25
Relation between gas and the farmer's crops. T. V. Baldwin. Gas Age 55:789-90+ My 30 '25
Use special molding machines for farm castings. P. Dwyer. il Foundry 53:345-8 My 1 '25

Standards

Relation of intra-company to general standardization. E. A. Johnston and O. B. Zimmerman. Soc Auto Eng J 14:323-6 Mr '24

Transportation

Practical methods of packing farm machinery for export. W. W. Ramsey. il Dun's Int R 44:42-3+ Ja '25

AGRICULTURAL machinery industry
Implement industry mobilizes for militant selling. Ptr Ink 129:153+ O 30 '24

See also International harvester company

Advertising

Big job for the farm implement maker. A. Stote. Ptr Ink 132:70+ S 3 '25
Farm implement men make price fight in cooperative campaign. G. A. Nichols. Ptr Ink 126:90+ Ja 31 '24
Farmer instruction books that advertise as well as instruct. R. Yarnell. Ptr Ink M 9: 58+ O '24

Argentina

Markets for agricultural implements and farm machinery in Argentina and Uruguay. S. H. Avery. U S Bur For & Dom Com Trade Information Bul 366:1-78 '25

AGRICULTURAL machinery industry—*Cont.*

South Africa

Agricultural implements and farm equipment in South Africa. P. J. Stevenson. U S Bur For & Dom Com 225:1-86 '24

United States

Agricultural implement business improves. Dun's R 32:8+ F 23 '24
Agricultural implements. Dun's R 32:7-8 Je 21 '24
Brighter days for farm tools. E. C. Barringer. Iron Tr R 77:522 Ag 27 '25
Exports of implements show increase. Am Mach 62:294 F 12 '25
Fair movement of agricultural implements. Dun's R 33:8-9 F 21 '25
Farm equipment makers see better sales ahead. Automotive Ind 52:115 Ja 15 '25
Farm machinery exports increase in 1925. Am Mach 63:333 Ag 20 '25
Farm market in stronger relative position. Ptr Ink 127:10 Je 19 '24
Good progress in farm implement business. Dun's R 32:8-9 O 18 '24
Larger sales of agricultural implements. Dun's R 33:8-9 Je 20 '25
National association of farm equipment manufacturers see real farm prosperity. Iron Tr R 77:1183-4 N 5 '25; Iron Age 116: 1261-2 N 5 '25
Optimism at National association of farm equipment manufacturers convention, Chicago. Iron Age 114:1147-8 O 30 '24
Survey of implement trade. Dun's R 33:8+ O 17 '25

Uruguay

Markets for agricultural implements and farm machinery in Argentina and Uruguay. S. H. Avery. U S Bur For & Dom Com Trade Information Bul 366:1-78 '25

AGRICULTURAL products

Plant products—chemical raw materials. W: A. Taylor. Am Inst Chem Eng Trans v 15 pt 2:193-201 '23; Same. Chem Age 31:549-51 D '23

See also Farm produce; *also* names of products, e.g. Cotton; Flax; Rubber; Sugar; Wheat

AGRICULTURAL publishers' association

Annual meeting, Chicago. Ptr Ink 129:113-14+ O 23 '24

AGRICULTURAL research

Activities of the Department of chemistry, Ontario agricultural college, Guelph. Can Chem & Met 8:37-9 F '24
Broader campaign for research work in agriculture. Manuf Rec 87:95-6 Ap 30 '25
Relation of information and research to industrial, commercial and agricultural development. S. B. Haskell. Special Lib 16: 255-8 O '25
Research program of the Department of agriculture. E. D. Ball. Am Inst Chem Eng Trans v 15 pt 2:151-7 '23; Same. Chem Age 31:565-7 D '23

AGRICULTURAL securities corporation

Agricultural securities corporation. Nat City Bank p 122-3 Ag '24

AGRICULTURAL societies

Directory of agricultural organizations and institutions, 1924. W. I. Drummond, comp. and ed. 47p International farm cong. of America, Kansas City, Mo. '24

See also Marketing, Cooperative

AGRICULTURE

Present-day problems in crop production. E. J: Russell. Soc Chem Ind J (Chem & Ind) 43: 888-95 S 5 '24
Technisierung der landwirtschaft. E. Zander. Zeit Ver Deutsch Ing 68:493-4 My 17 '24
World census of agriculture. C. B. Sherman. Am Bankers Assn J 17:749+ Je '25; Same. Econ W n s 30:40-2 Jl 11 '25

See also Agricultural machinery and other headings beginning Agricultural; Airplanes in agriculture; Alfalfa; Clearing of land; Cotton; Crops; Dairying; Diversified farming; Drainage; Electricity on the farm; Electrohorticulture; Farm buildings; Farm labor; Farm management; Farm produce; Farm tenancy; Farmers; Feeding and feeding stuffs; Fertilizers; Flax; Forests and forestry; Fumigation; Irrigation; Live stock; Reclamation of land; Rice; Rubber plants and planting; Silage; Silos; Soil analysis; Soils; Sugar; Wheat; Workers' gardens; *also* American railway development association

Consult Agricultural Index for additional references

Economic aspects

ABC's of farm economics for the busy man. S. Patterson. Ptr Ink 126:89-90+ Mr 27 '24
Action of reserve banks in making available credit to Bank of England to maintain gold standard was most constructive step in aid of American farmer. Comm & Fin Chr 121: 282-3 Jl 18 '25
Address of President Coolidge before International live stock exposition. Comm & Fin Chr 119:2606-8 D 6 '24
Agricultural argument. D. H. Macgregor. Econ J 35:389-97 S '25
Agricultural conditions. Nat City Bank p 77-80 My '25
Agricultural crisis, 1920-1923. R. R. Enfield. 211p Longmans '24
Agricultural situation, economic effects of fluctuating prices. G: F: Warren and F. A. Pearson. 306p Wiley '24
Agricultural situation in the United States. charts Ann Am Acad 117:1-304 Ja '25
The agriculturalist's untoward condition is due to the fact that he is the unfortunate victim of a vicious double standard of value. G. W. Dyer. Am Ind 24:33-4+ D '23
Agriculture. Nat City Bank p 127-30 Ag '25
Agriculture and all business. E. T. Meredith. charts Am Bankers Assn J 17:209-11+ O '24; Same abr. Comm & Fin Chr 119:103-6 sec 2 O 18 '24
Agriculture, the farm and its relation to the oil industry. E. T. Meredith. Am Pet Inst Bul 4:10-18 D 31 '23
American agriculture and the European market. E. G. Nourse. 333p McGraw-Hill '24
Burden of fixed charges on farm lands. H. H. Preston. Am Bankers Assn J 17:607-8+ Ap '25; Same. Econ W n s 29:616-19 My 2 '25
Economic history of American agriculture. E. L. Bogart. 173p Longmans '23
Elements of rural economics. T: N. Carver. 266p Ginn '24
Exactly what is the farm problem and how is it going to be solved? E: F. Roberts. Automotive Ind 51:487-8 S 11 '24
Exempting the farmer from taxation—the report of the agricultural conference. Comm & Fin Chr 120:745-7 F 14 '25
Farm market problem. L: C. Gray; G. Silver; F. P. Mount. Am Ind 24:18-23 Je '24
Farm mortgage loans of life insurance companies as a support to American agriculture. L. A. Phillips. Econ W n s 27:94-6 Ja 19 '24
Farmer and business man meet at first regional Agricultural conference. Nation's Business 13:62+ Je '25
The farmer is a business man; interview with William M. Jardine. N. A. Crawford. il Nation's Business 13:13-16 Ap '25
Farmer must adjust production to demands of consumer. W. M. Jardine. Comm & Fin Chr 120:1691 Ap 4 '25
Farmer vs. the people. R. Estcourt. Annalist 22:665-6 N 19 '23
Farmer's money—will he spend it? O. M. Kile. Nation's Business 12:21-2 D '24
Farmers' problem and the dangerous class legislation embodied in the McNary-Haugen bill. B. M. Anderson, jr. Econ W n s 27:400-2, 439-41 Mr 22-29 '24; Same. Chase Econ Bul 4:1-17 My '24

AGRICULTURE—Economic aspects—*Continued*

Farmer's tax burden; he can do most to lighten it by checking waste in local expenditures. L. R. Gottlieb. Annalist 22:725+ D 3 '23

Farmers' troubles and their remedies. E: A. Bradford. Annalist 23:478+ Ap 21 '24

Farming is just a business. J: W. Scott. il Nation's Business 12:13-15 N '24

Foundations of agricultural economics. J: A. Venn. 397p Macmillan '23

Grain farmer's share. Bradstreet's 52:813 D 20 '24

Hoover in statement to president's agricultural commission urges maintenance of tariff, development of increased consumption, elimination of waste. Comm & Fin Chr 120: 411-12 Ja 24 '25

How the banks can best serve agriculture. F. O. Lowden. Comm & Fin Chr 121:88-91 sec 2 O 17 '25; Same cond. Am Bankers Assn J 18:205-6+ O '25; Abstract. Bankers M 111: 503+ O '25

Introduction to rural economics. P. L. Vogt. 377p Appleton '25

Linking the farm to the factory. J. H. Barnes. Nation's Business 12:46 Mr '24

Major problems: the farm. T. Finty, jr. Comm & Fin 13:1263-4 Jl 2 '24

Making the farmer a business man. C. J. Baer. il Am Ind 26:36-8 O '25

Movement of population from the farms to the cities in the United States. H: C. Taylor. Econ W n s 30:220-2 Ag 15 '25

Not to be cured by political or legislative processes; Northwestern grain area farm troubles. J: H. Rich. il Am Bankers Assn J 16:407-10 Ja '24

One-gallus farmer, how about him? F. Butner. Nation's Business 13:76+ My '25

Outlines of agricultural economics. H: C. Taylor. 610p [bibliog. p. 587-95] Macmillan '25

Political uncertainty makes business men impatient. N. G. Shidle. Automotive Ind 50:1058-9 My 15 '24

Price fixing won't fix the farmer; an interview with E. G. Quamme. A. F. Jones. Nation's Business 11:52+ D '23

Purchasing power of farmers' incomes, 1914 to 1923. Monthly Labor R 20:307-10 F '25

Real trouble with the farmers. H. Quick. 214p Bobbs '24

Square deal for the farmer. A. Capper. Bankers M 108:23-7 Ja '24

State of agriculture. Nat City Bank p 56-62 Ap '25; Same abr. Econ W n s 29:584-7 Ap 25 '25

Tariff and its relation to the farmer. Manuf Rec 86:63-5 O 9 '24

Too much emphasis on the benefits of higher prices. M. A. Traylor. Am Bankers Assn J 17:12+ Jl '24

United States Department of agriculture finds farm tax burden increased by local levies for wider use. Comm & Fin Chr 121:542 Ag 1 '25

Weakest point in the farmer's financial policy. B: M. Anderson, jr. Chase Econ Bul 4:3-32 O 23 '24; Same. Econ W n s 28:652-6, 693-4 N 8-15 '24; Abstract. Bradstreet's 52:685 O 25 '24

Western farmer's balance sheet. C. M. Harger. Annalist 25:646 My 11 '25

What price demagogy? J. H. Barnes. Nation's Business 13:15-17 F '25

See also Agricultural credit; Farm labor; Farm produce; Grain trade

Statistics

Agricultural census. R. J. Thompson. Roy Statis Soc J 88:185-208; Discussion. 208-20 Mr '25

Statistical story of 1923. Bradstreet's 52:30 Ja 12 '24

Australasia

Australasian land companies. Economist 100: 88-9 Ja 17 '25

Bavaria

Use of electricity in Bavarian agriculture. H. Lerchenfeld. Ann Am Acad 118:47-9 Mr '25

California

See also Irrigation—California

Canada

Agricultural resources of Canada. T: R. Wilson. Econ W n s 28:688-90 N 15 '24

Colorado

Approaching Colorado's agriculture. J: T. Bartlett. il Burroughs Clearing House 8: 12-13+ My '24

Denmark

Agricultural production in Denmark. H. Faber. Roy Statis Soc J 87:22-62; Discussion. 62-75 Ja '24

Financial returns of Danish agriculture in 1923-1924. Econ W n s 29:439-40 Mr 28 '25

Europe

Economic and financial progress in Europe, 1923-24. J. S. Davis. R Econ Statis 6:209-11 Jl '24

European agricultural policies. F. M. Surface. Ann Am Acad 112:201-7; Discussion. W: S. Culbertson. 207-11 Mr '24

France

La crise de la "vie chère." C: Lambert. Soc Ing Civils Bul 77:33-86 Ja '24

La diminution de l'emblavure du froment, et l'augmentation des cultures fourragères en France. Génie Civil 85:528-9 D 6 '24

Georgia

Banker turned farmer. J. H. Reed. Comm & Fin 14:1269 Jl 1 '25

Germany

Die industrialisierung der deutschen landwirtschaft, eine deutsche lebensfrage. H. Pöppelmann. il diags charts Zeit Ver Deutsch Ing 69:619-27 My 9 '25

Industrie und landwirtschaft. H. Warmbold. Stahl & Eisen 45:105-9 Ja 22 '25

Position of agriculture in Germany. C. Von Dietze. Economist 98:sup43 Je 28 '24

Great Britain

Agricultural argument. D. H. Macgregor. Econ J 35:389-97 S '25

Final report of the Agricultural tribunal of investigation. Review, by J. A. Venn. Econ J 34:398-407 S '24

Italy

Community cultivation of the soil in Italy. Int Labour R 10:825-36 N '24

Japan

New method of tenancy disputes adjustment in Japan. Int Labour R 11:381-8 Mr '25

New Zealand

Control of agricultural produce in New Zealand. Economist 100:954-6 My 16 '25

North Dakota

Irrigating the desert of wheat. J: P. Dennis. Comm & Fin 13:611-12 Mr 26 '24

Northwestern states

See Agriculture—United States

Oregon

Oregon's remedy for farm ills. F: Simpich. il Nation's Business 12:16-18 Jl '24

Russia

Agricultural changes in Russia. Economist 100:741 Ap 18 '25

Position of Russian agriculture. M. N. Tcherkinsky. Econ J 35:484-90 S '25

Russian harvest prospects. Economist 99:222-3 Ag 9 '24

Russia's crops. Economist 101:224-5 Ag 8 '25

Russia's rural economy. Economist 99:862-3 N 29 '24

South Africa

Agricultural implements and farm equipment in South Africa. P. J. Stevenson. U S Bur For & Dom Com 225:1-86 '24

AGRICULTURE—*Continued*

South Carolina

South Carolina's plan to check migration from farms. R: Spillane. Comm & Fin 13:10-11 Ja 2 '24

Southern states

Agriculture in the South. H: C. Wallace. il Manuf Rec 86:140-3 pt 2 D 11 '24

Diversification usurps king cotton's place in Dixie. A. M. Soule. il Manuf Rec 86:144-55 pt 2 D 11 '24

Diversified agriculture enriching the South. R. Turner. Manuf Rec 85:79-80 My 15 '24

Improvement in agricultural situation in South. R. S. Hecht. Comm & Fin Chr 120:282 Ja 17 '25

Revolutionizing a farming section where cotton has given way to trucking. J. Wooten. il Manuf Rec 88:70-4 Jl 23 '25

Value of all crops last year $10,326,769,000—$4,212,870,000, or 40 per cent, in the South. Manuf Rec 87:53 Ja 22 '25

Where farming is taught in every public school. C. A. Cobb. il Forbes 15:464-6 Ja 15 '25

Spain

Agrarian problem in Spain. F. de los Rios. maps Int Labour R 11:830-51 Je '25

United States

Address of President Coolidge before International live stock exposition. Comm & Fin Chr 119:2606-8 D 6 '24

Agricultural conditions. Nat City Bank p 119-22 Ag '24; p 77-80 My '25

Agricultural developments during 1923. Fed Res Bul 10:13-16 Ja '24

Agricultural situation. B: M. Anderson, jr. Annalist 23:17-18+ Ja 7 '24

Agricultural situation. C. P. Fuller. Bankers M 108:882-4 Je '24

Agriculture earning greater return than railway capital. Ry Age 79:228 Ag 1 '25

Agriculture is safely convalescent. W. M. Jardine. Comm & Fin Chr 121:519 Ag 1 '25

Annual report of Secretary of agriculture Wallace. Comm & Fin Chr 117:2612-13; 119:2718 D 15 '23, D 13 '24

Aspects of banking relief for the Northwestern wheat farmer. R. Bean. Annalist 23:212+ F 11 '24

Conditions in the Northwest. R. Budd. il Forbes 13:383-4+ Ja 5 '24

The crops. Nat City Bank p 169-72 O '25

Does the farmer need charity? C. P. Fuller. Bankers M 108:705-6 My '24

Fall of the wheat empire. E. Dakin. Comm & Fin 13:341-3 F 13 '24

Farm foreclosures and bankruptcies since 1920. Comm & Fin Chr 118:139 Ja 12 '24

Farm population declined during 1924. Comm & Fin Chr 121:520 Ag 1 '25

Farmers suffocated by overproduction. E: A. Bradford. Annalist 23:388+ Mr 31 '24

Farming industry is picking up. Ptr Ink 128: 73-4 Jl 17 '24

Farms show improved financial returns last year. Comm & Fin Chr 121:291-2, 519 Jl 18, Ag 1 '25

Forty-nine crops valued at over $9,479,000,000 in 1924. Manuf Rec 86:53-4 D 25 '24

Future of agriculture. D. Friday. Credit M 27:8+ Jl '25; Same. Econ W n s 30:76-8 Jl 18 '25

Future of American agricultural prices and values. D. Friday. Econ W n s 28:292-4 Ag 30 '24; Same cond. Comm & Fin Chr 119: 1114-15 S 6 '24; Excerpts. Index p 10-11 S '24

History of agriculture in the northern United States, 1620-1860. P. W. Bidwell and J: I. Falconer. 512p [bibliog. p. 454-73]. Carnegie institution of Washington, Washington, D.C. '25

Income from agricultural production in the United States, 1919-1924. Econ W n s 28: 333-4 S 6 '24

Income of American farmers from agricultural production in 1924-1925. Econ W n s 30:158 Ag 1 '25; Same. Soc Auto Eng J 17:262 S '25

Increase in agricultural exports—cotton made gain of 43 per cent. Manuf Rec 88:90 Ag 6 '25

Marked gain in agricultural exports in 1924. Manuf Rec 87:67 Ja 29 '25

Marked improvement in farm situation but condition still unsatisfactory. H: C. Wallace. Comm & Fin Chr 117:2613-14 D 15 '23

Monthly money income of American farmers, 1919-1925. Econ W n s 30:514 O 10 '25

National danger—soil exhaustion. M. L. Davey. Am Ind 26:5-8 Ag '25

Outlook for agriculture in the United States. D. Friday. Econ W n s 28:148-52 Ag 2 '24; Same. Credit M 26:7-8+ Ag '24

President Coolidge in message to Congress proposes measures for financial relief of agricultural situation in Northwest. Comm & Fin Chr 118:382-4 Ja 26 '24

Project of dumping surplus farm products and the cost of crop production in the United States. Econ W n s 27:366-9 Mr 15 '24

Relation of population growth and land supply to the future foreign trade policy of the United States. L. C. Gray. Ann Am Acad 112:191-201; Discussion. W: S. Culbertson. 207-11 Mr '24

Report of agricultural conference on administration of federal departments related to agriculture. Comm & Fin Chr 120:652-4 F 7 '25; Monthly Labor R 20:484-8 Mr '25

Rural uplift is on the wane. H. J. Hughes. Nation's Business 13:35-6 S '25

Shall we regulate prices, or crops? G: E. Roberts. il Burroughs Clearing House 8:5-7+ Ap '24

Situation in agriculture. Nat City Bank p 20-8 F 9 '24; Same. Econ W n s 27:329-33 Mr 8 '24

Slight decreases in number of farms and crop area last year. Comm & Fin Chr 121:921 Ag 22 '25

State of agriculture. Nat City Bank p 192-3 D '24; p 11-16 Ja; p 56-62 Ap '25; Same abr. (pt. 3). Econ W n s 29:584-7 Ap 25 '25

Statistical importance of agriculture in American economic life. B: M. Anderson, jr. Econ W n s 29:220-1 F 14 '25; Same. Comm & Fin Chr 120:776 F 14 '25

Survey of Northwest agricultural industry by Federal reserve bank of Minneapolis. Comm & Fin Chr 119:2721-2 D 13 '24

Washington conference to consider financial relief for agricultural interests of Northwest. Comm & Fin Chr 118:607-10 F 9 '24; Excerpt (Coolidge's address). Econ W n s 27: 197-8 F 9 '24

What is in store for agriculture. Am Ind 25: 21-3 Mr '25

What the farm conference wants. Comm & Fin 14:291 F 11 '25

See also Agriculture—Economic aspects; Agriculture—Southern states; Cotton—United States; Irrigation—United States

AGRICULTURE, Cooperative

Agricultural cooperation in Western Canada. W: A. Mackintosh. 173p [bibliog. p. 160-5] Queen's university, Kingston, Toronto '24

Community cultivation of the soil in Italy. Int Labour R 10:825-36 N '24

Rebuilding of rural England. M. E: Fordham. 212p Hutchinson & co., London '24

Social aspects of land reform in Czechoslovakia. Int Labour R 12:225-44 Ag '25

See also Marketing, Cooperative

AHRENS, Theodore

See Carnegie institute—Theodore Ahrens professorship

AHUMADA lead mine. See Lead mines and mining—Mexico

AIMESBURY company

Reciprocity—the Aimesbury company. Harvard Business R 2:490-6 Jl '24

AIR

Can air carry moisture? diags Power 62:503 S 29 '25

Determination of dissolved air in small quantities of water. H. G. Becker and W. E. Abbott. diag Soc Chem Ind J 42:484-6 D 14 '23

AIR—*Continued*
Determination of the dielectric constants of five gases by a high frequency method. E. C. Fritts. il diags Phys R 23:345-56 Mr '24
Nature of the ions in air and in carbon dioxide. H: A. Erikson. diag Phys R 24: 502-9 N '24
Scattering of light in mixtures of air and carbon dioxide. D. Banerji. Phys R 26:495-9 O '25
Use and abuse of air on board ship. H. C. Dinger. Marine Eng 30:219-20 Ap '25

See also Aerodynamics; Aeronautics; Air conditioning; Air flow; Atmosphere; Atmospheric electricity; Atmospheric temperature; Compressed air; Heating; Humidity; Liquid air; Meteorology; Mine air; Oxygen; Ozone; Tunnel air; Ventilation; Water vapor-air mixtures

Analysis

Comparative tests of instruments for determining atmospheric dusts. 69p U.S. Bur. of mines, Washington, D.C. '25
Continuous conductivity method of measuring small concentration of chlorine in air. T. H. Hine. Ind & Eng Chem 16:952-3 S '24
Determination of suspensoids by alternating-current precipitators. P. Drinker and R. M. Thomson. il J Ind Hygiene 7:261-72 [bibliog. p. 271-2] Je '25
Preparation and analysis of constant mixtures of air and carbon dioxide. J: Johnston and A. C. Walker. diags Am Chem Soc J 47:1807-17 Jl '25
Pyrotannic acid method for the quantitative determination of carbon monoxide in blood and in air. R. R. Sayers and W. P. Yant. U S Bur Mines Tech Pa 373:1-18, pl 1-2 '25
Use of Owens' jet dust counter and of electric precipitation in the determination of dusts, fumes, and smokes in air. P. Drinker and R. M. Thompson. il diags Am Soc Heat & V E J 30:695-710 N '24

AIR, Compressed. See Compressed air

AIR, Liquid. See Liquid air

AIR-blasts in mines. See Mine explosions

AIR brake association
Annual convention, 31st, Montreal, May 6-8. Ry Age 76:1149-54, 1202 My 10-17 '24; Ry Mech Eng 98:349, 424-9 Je-Jl '24
Annual meeting, 32d, Los Angeles, Cal., May 26-29. Ry Age 78:1341-3, 1401-2 My 30-Je 6 '25; Ry Mech Eng 99:371-2, 471-5, 565-6 Je-Jl, S '25

AIR brake handles
Babbitting air brake handles. il Elec Ry J 63: 779-80 My 17 '24

AIR brake hose
Report on brake pipe leakage. Ry Age 78:1402-3 Je 6 '25; Ry Mech Eng 99:471-4 Jl '25
Simplifying air hose assembly. il Elec Ry J 64:247 Ag 16 '24

Repair

Hose repair job. il Ry Mech Eng 98:110 F '24
Reclamation of hose and fittings. J. C. Griggs. Ry R 74:1004-5 Je 7 '24

AIR brakes
Air brake equipment at Rice institute, Houston, Texas. J. H. Pound. il Ry Mech Eng 99:230 Ap '25
Air brake inspector's handbook. C. Glenn. 200p Simmons-Boardman pub. co., New York '24
A. R. A. report on brakes and brake equipment. diags Ry R 74:1244-5 Je 28 '24; Ry Age 78:1578-81 Je 20 '25; Ry Mech Eng 99: 436-8 Jl '25
Behind the scenes with the modern air brake. il Nat Safety N 9:29-31 F '24
Brake gear design, installation and maintenance. W. H. Clegg. chart diags Ry R 76: 1112-15 Je 13 '25
Buffalo brake beam adjusting carrier and guard. il Ry R 76:1204-5 Je 27 '25
Condemning limits of A. R. A. standard triple valve parts. Ry Mech Eng 99:474-5 Jl '25
Freight car foundation brake design. W. G. Stenason. diags Ry Mech Eng 98:350-1 Je '24
Interesting employees in the study of air brakes. J. P. Stewart. Ry Age 76:1153 My 10 '24; Same. Ry R 74:1131-2 Je 14 '24; Excerpts. Ry Mech Eng 98:428-9 Jl '24
Interstate commerce commission's report on power brakes. Ry R 75:251-7 Ag 16 '24; Excerpt. Ry Age 77:296-7 Ag 16 '24; Excerpt. Ry Mech Eng 98:521-3 S '24
Less damage to freight by rough handling. C. F. Polzin. il Ry Age 75:1057-9 D 8 '23
Modern air brakes. C: L. McShane. 532p Griffin & Winters, Chicago '24
Precipitation of water in compressed air systems. D. W. Lloyd. Ry Mech Eng 99:215-16 Ap '25
Relation of air brakes to train control. G. H. Wood. Ry R 76:692-4 Ap 11 '25
Report on passenger train handling. Ry Age 76:1150-3 My 10 '24; Same. Ry Mech Eng 98: 424-8 Jl '24
Report on passenger train handling. Ry Age 78:1401-2 Je 6 '25
Requirements of law and orders of the Interstate commerce commission with respect to air brakes. W. J. Patterson. Ry Age 78: 1341-2 My 30 '25
Results of improper handling of locomotive and air brakes. Ry Age 79:557-9 S 26 '25; Same cond. Ry Mech Eng 99:616-17 O '25
Sprague semi-automatic angle cock. il Ry Age 78:1478-9 Je 13 '25; Ry Mech Eng 99:588-9 S '25
Triple valves for air brakes. F. H. Colvin. il Am Mach 63:457-60 S 17 '25

See also Air brake hose

Cleaning

Cleaning triple and distributing valves with kerosene. H. G. Myrick. Ry Mech Eng 99: 518-19 Ag '25

Manufacture

Operations in manufacturing air-brake pumps. il Am Mach 63:191-3 Jl 30 '25
Westinghouse brake cylinders and auxiliary reservoirs. F. H. Colvin. il Am Mach 63:301-2 Ag 20 '25

Repair

Reclamation of angle cocks. A. Skinner. il Ry Mech Eng 98:436 Jl '24
Triple valve test rack operator. Ry Mech Eng 98:429 Jl '24

Testing

A. R. A. report on safety appliances. Ry Age 78:1589-90 Je 20 '25; Ry Mech Eng 99:444-5 Jl '25
Better observance of the rules necessary for protection. W. J. Patterson. Ry Mech Eng 99:371-2 Je '25
German State railways' brake tests. il diags Ry Mech Eng 99:209-12 Ap '25
I.C.C. power brake investigation reopened. Ry Age 76:499-504, 551-4 Mr 1-8 '24
Testing rack for brake cylinder packing leathers. E. A. Miller. Ry Mech Eng 99: 299-300 My '25
Tests of the automatic straight air brake on the Norfolk & Western railway. 30 numb. l. U.S. Interstate com. comm., Bur. of safety, Washington '23
Triple valve slide leakage indicator. Ry R 76: 1018-19 Je 6 '25

AIR brakes, Automobile
Action of new Knorr air brake dependent on motion of vehicle. il diags Automotive Ind 51:165-9 Jl 17 '24
Air-braking system for trailers. Automotive Ind 50:1368 Je 26 '24
Automotive airbrake—why and how. H. D Hukill. il diags Soc Auto Eng J 16:283-96 Mr '25; Discussion. 16:596-8 Je '25
Difficult problems involved in power braking for motor vehicles. P. M. Heldt. diags Automotive Ind 50:616-20, 656-60 Mr 13-20 '24
Pneumatic brake operation. il diags Automobile Eng 15:107-9 Ap '25

AIR brakes, Motor bus
Air-brake service on Boston-Lowell buses makes good showing. il Bus Transportation 4:344 Jl '25
Brake mechanism inside front wheels. il Bus Transportation 4:345 Jl '25
Door control for buses is interlocked with air brake system. P. M. Heldt. diags Automotive Ind 53:144-6 Jl 23 '25
Repairing metal-to-metal air brakes. C. B. Lindsey. Bus Transportation 4:237 My '25

AIR brakes, Motor truck
Air brakes for tank trucks? G. W. Sutton. il diags Pet Age 16:64+ O 1 '25

AIR brushes
Air brush and pressure feed unit. il Management & Adm 8:532 N '24

AIR bubbles
Influence of curvature on air saturation of water and its relation to the air-binding of filters. J: R. Baylis. bibliog Ind & Eng Chem 17:974-9 S '25
Motion of an air bubble rising in water. O. Miyagi. diags Philos Mag 6th ser 50:112-40, pl 3 Jl '25

AIR cleaners
See also Air filters; Air washers

Testing
A-A dust determinator. M. Ingels. chart diag Am Soc Heat & V E J 31:5-21 Ja '25
Determining the efficiency of air cleaners. A. M. Goodloe. diags Am Soc Heat & V E J 30:115-19 F '24; Discussion. 30:278-9 Mr '24
Production and measurement of air dustiness. M. Ingels. il diags Am Soc Heat & V E J 30:135-52 F '24

AIR cleaners, Automobile
Air cleaner combines principles of screen and oily surfaces. il Automotive Ind 53:92 Jl 16 '25
Air-cleaners advocated. L. L. Dollinger. Soc Auto Eng J 15:490+ D '24
Air cleaners on trucks in service. A. H. Hoffman. il Soc Auto Eng J 16:249-56 F '25; Abstract. Automotive Ind 52:192-3 Ja 29 '25; Discussion. Soc Auto Eng J 16:140a-b F '25
Air-filters. L. L. Dollinger. Soc Auto Eng J 15:66-8 Jl '24; Discussion. 15:539-41 D '24
Centrifugal force used in air cleaner. il Bus Transportation 3:272-3 Je '24
Motor vehicle makers give increased attention to air cleaners. W. L. Carver. diags Automotive Ind 50:180-3 Ja 24 '24
New air cleaner has no moving parts and no dust receptacle. il Automotive Ind 52:227 F 5 '25
New air cleaner works on principle of a cream separator. il diag Automotive Ind 52:148 Ja 22 '25
Physical characteristics of road and of field dust. C. E. Summers. il Soc Auto Eng J 16: 243-7 F '25; Excerpts. Automotive Ind 52: 191-2 Ja 29 '25; Discussion. Soc Auto Eng J 16:140a-b, 630-2 F, Je '25
Recent observations of air-cleaning devices. C: P. Grimes. il Soc Auto Eng J 15:63-5 Jl '24; Discussion. 15:541-3 D '24
Self-cleaning device to keep out dirt. il Bus Transportation 3:228 My '24
Usefulness of air-cleaners discussed and requirements analyzed by S.A.E. Soc Auto Eng J 15:10-13 Jl '24; Automotive Ind 51:56-9 Jl 3 '24

Testing
California air-cleaner tests, 1924 series. A. H. Hoffman. il Soc Auto Eng J 15:140-8 Ag '24
Final report on the 1924 California aircleaner tests. A. H. Hoffman. il Soc Auto Eng J 16:367-71+ Mr '25
Testing of air-cleaners. A. B. Squyer. il diags Soc Auto Eng J 15:33-7 Jl '24; Abstract. Automotive Ind 50:1367-8 Je 26 '24; Discussion. Soc Auto Eng J 15:553-5 D '24

AIR compressors
Air-compressing machinery at the British Empire exhibition. Engineering 117:541, pl 43 Ap 25 '24
Air compressor at colliery; Empire exhibition. il diags Engineering 118:190-3 Ag 8 '24
Air compressors; types, uses and practical performance. C: L. Hubbard. il diags Factory 35:56-60+ Jl '25
Angle compound air compressor. il diags Engineer 137:225 F 29 '24
Automatic air-compressing plant. il diags Engineer 139:170 F 6 '25
Changes made to improve operation of air compressors. R. McLaren. Power 61:877 Je 2 '25
Checking up on air compressor operation. L. Blake. Power Pl Eng 28:666 Je 15 '24
Chicago-pneumatic straight-line two-stage compressor. il Eng & Min J 118:515 S 27 '24; Coal Age 26:603-4 O 23 '24
Commercializing the small synchronous motor for direct connection to compressors. T. Schou. il diags Refrig Eng 12:47-52; Discussion. 52 Ag '25
Compressed air in the ice plant. C. W. Gibbs. Refrig W 59:29 My '24
Compressor theory and practice. J. M. Ford. 345p Van Nostrand '23
Development of the turbo-compressor. Mech Eng 47:288 Ap '25
Diesel-engine air compressors. R. Melrose. diag Power 60:800-1 N 18 '24
Effect of clearance on air-compressor operation. chart diags Power 62:598-9 O 20 '25
Figuring air compressor speed. Power Pl Eng 29:559 My 15 '25
Five-stage air-compressor; Empire exhibition. il diags Engineering 118:498-9 O 3 '24
Flywheel requirements for unbalanced air and ammonia compressors. C. W. Cutler. il Refrig Eng 12:75-84; Discussion. 84-7 S '25
Flywheel type synchronous machine. T. Schou. il Refrig Eng 11:351-4 Ap '25
General Electric centrifugal compressors. il Am Mach 61:978-9 D 18 '24
High-pressure marine-type air compressor; British-Empire exhibition. il diag Engineering 118:425 S 19 '24
How shall compressors be compared? diags Power 59:644-6 Ap 22 '24
Installation and care of air compressors. diag Foundry 53:142a, 192a, 230a, 274a F 15-Ap 1 '25
Installation of air compressors. il Textile World 66:1311+ S 6 '24
Installing air compressors temporarily on a cinder fill. C. S. Grigor. il diags Power 61: 540 Ap 7 '25
Joint mobile, à diaphragme élastique, système Planche. diags Génie Civil 83:465 N 10 '23
Keeping solid impurities out of the air-compressor intake. W: V. Fitzgerald. diag Power 59:599-600 Ap 15 '24; Discussion. 59:789; 60:586-7 My 13, O 7 '24
Kleinkältemaschinen mit drehkolbenkompressoren. R. Plank, M. Krause and W. Tamm. diags Zeit Ver Deutsch Ing 69:393-7, 477-81 Mr 28, Ap 11 '25
Large colliery compressed air transmission scheme. il diags Engineer 140:238-40, 242, 261-2, 268 S 4-11 '25
Lesson taught by an air compressor. J. H. Pound. diags Power 60:839-40 N 25 '24
New rotary compressor developed by John Milne. il Iron Age 115:1197 Ap 23 '25; Elec Ry J 65:775 My 16 '25; Eng & Min J 119: 866 My 23 '25; Chem & Met Eng 32:585 Je '25; Power 61:1005-6 Je 23 '25; Ry Mech Eng 99:392-3 Je '25
New type of synchronous motor for driving reciprocating compressors. G. M. Chute. il diags Power 61:864-5 Je 2 '25; Same. Refrig Eng 11:433-4 Je '25
Nouveau compresseur d'air Westinghouse pour locomotives. J. Netter. il diags Génie Civil 83:641-3 D 29 '23
Oil engine driven air compressor car for railroad construction work. il Ry R 75:137-8 Jl 26 '24
One method of obtaining clean air for air compressors and its advantages. C. H. Leighton. il Ind Eng 82:40 Ja '24

AIR compressors—*Continued*

Planche type of rotary compressor. diags Chem & Met Eng 32:172 Ja 26 '25

Practical Diesel engineering. L: R. Ford. il diags Marine Eng 30:351-5 Je '25

Prevention of air compressor heating. R. A. Cultra. diags Power Pl Eng 28:965-7 S 15 '24

Report on more efficient air compressors. Ry Mech Eng 99:474 Jl '25

Semi-portable air compressing and pumping sets. il diags Engineering 117:432-3 Ap 4 '24

Starting a new air compressor. Power Pl Eng 28:1216-17 D 1 '24

Study of temperature in a two-stage air compressor. W. S. Weeks, C. F. Milisich and H. Le C. Berteaux. diags Eng & Min J 119:765-6 My 9 '25

Surpresseurs et pompes à vide, système Planche, avec graisseur compte-gouttes à pression équilibrée. diags Génie Civil 84: 238 Mr 8 '24

Twin air compressor—Belliss and Morcom. il diags Engineer 138:4-5 Jl 4 '24

Two-stage steam-driven air compressor. il diags Engineering 118:690-2 N 14 '24; Engineering 138:455 O 24 '24

Type TB-S4T four-stage compressor. il Chem & Met Eng 32:650 Jl '25

Use of supercharger increases compressor's efficiency; the Rix-Six. il Eng & Min J 119:827 My 16 '25

Water and steam piping for air compressors. Power Pl Eng 28:693 Jl 1 '24

Worthington feather-valve vertical air compressors. il Am Mach 63:601-2 O 8 '25; Bus Transportation 4:514-15 O '25

See also Air pumps; Compressed air

Bearings

Reaming compressor bearings. il Elec Ry J 64:23 Jl 5 '24

Cleaning

Air compressor laundering equipment. diags Ry Mech Eng 99:574-5 S '25

Cleaning receiver piping. Foundry 53:524a Jl 1 '25

Control

Automatic air pressure regulator. diags Elec Ry J 66:137 Jl 25 '25

Automatic control for shop compressor. H. Cowen. diag Elec Ry J 62:866-7 N 17 '23

Failures

Air compressor explosions. C: H. Bushnell. diags Power 62:319 S 1 '25

Avoiding compressor explosions. T: O. Organ. Power 62:87 Jl 21 '25

Broken valve on air compressor causes fire in power plant. Power 61:465, 704, 842, 881; 62: 63, 105-6, 616-17 Mr 24, My 5, 26-Je 2, Jl 14-21, O 20 '25

Explosion in compressed-air tank in ice plant. B. W. Bissell. il Power 60:465 S 16 '24

Lubrication

Air compressor lubrication. B. C. Cruickshanks. diag Locomotive 35:41-50 Ap '24

Lubrication of air compressors. Foundry 53: 476a, 524a Je 15-Jl 1 '25; Same abr. Power Pl Eng 29:206 F 1 '25

Raccord étanche pour injection de liquide dans une pièce tournante soumise intérieurement à une pression gazeuse. diag Génie Civil 86:217 F 28 '25

Rating

Air compressor capacities and pressures. Power Pl Eng 28:967 S 15 '24

Repair

Air compressor maintenance. il Ry Mech Eng 99:520-1 Ag '25

Compressor room under repair shop. il Elec Ry J 66:25-6 Jl 4 '25

Machining air compressor cylinders. C. B. Miles. Ry R 76:1104 Je 13 '25

Oxyacetylene welding of cast iron with brass. V. T. Kropidlowski. diags Ry Mech Eng 99: 176-7 Mr '25

Reboring compressor cylinders at Syracuse. il Elec Ry J 65:664 Ap 25 '25

Testing

Testing compressors on cars. il Elec Ry J 63:110 Ja 19 '24

Testing efficiency of air compressors. il Elec Ry J 66:135-6 Jl 25 '25

Tests of a Swiss rotary 500-hp compressor. diags Mech Eng 47:289 Ap '25

Valves

Tool for fitting air-compressor valves. M. Masters. diag Am Mach 63:483 S 17 '25

AIR compressors, Portable

Broomaster portable air compressor. il Engineering 118:179 Ag 1 '24

Car compressors supply pneumatic tampers. il Elec Ry J 66:96 Jl 18 '25

Constructing a portable air compressor for supplying air in isolated locations. H. E. Stafford. il Ind Eng 82:344-5 Jl '24

Holman portable air compressor. il Engineering 119:90 Ja 16 '25

Ingersoll-Rand portable air compressor. il Am Mach 60:906 Je 12 '24; Chem & Met Eng 30:993 Je 23 '24; Iron Age 113:1854 Je 26 '24

Portable air compressor sets. il diags Engineering 117:398-400 Mr 28 '24

Portable air compressors in water works service. il Eng & Contr (W W) 61:1046-7 My 14 '24

Portable compressor rig for prospecting. il Eng & Min J 120:576 O 10 '25

Portable compressors have electric welded frames. il Eng N 95:613 O 8 '25

Portable steam-driven air compressor. il Engineering 118:753 N 28 '24

Reavell portable air compressor. il Gas J (Lond) 165:429 F 20 '24

Sullivan portable motor driven air compressor. il Ry Mech Eng 99:127 F '25; Eng & Contr (Equip R) 63:918-19 Ap 29 '25; Power 61:707 My 5 '25

300 cu. ft. compressor mounted on CP trailer. il Eng & Contr (Equip R) 63:949 Ap 29 '25

Use of portable air compressor on water works distribution system. F. C. Amsbary. Am Water Works Assn J 11:86-7 Ja '24

Use of portable air compressors. F. G. Burch. il Can Eng 46:131-2 Ja 8 '24

AIR conditioning

Aerology for amateurs and others. E. V. Hill. Heat & Ven 20:35-9+ Ja; 44-7 F; 43-4 Mr; 37-40 Ap; 43-5 My; 51-4 S; 50-3 O; 39-41 N; 52-5 D '23; 21:53-6 Ja; 45-8 Mr; 49-50 My '24

Air conditioning. H. A. Terrell. il Refrig Eng 11:388-91 My '25

Air conditioning in textile mills. A. W. Thompson, ed. 497p Parks-Cramer co., Fitchburg, Boston '24

Air conditioning system for a modern film laboratory. F. E. Garbutt. diags plans Heat & Ven 20:39-44 D '23

Air handling and humidity problems in Wisconsin paper mill. A. T. North. il plan Am Soc Heat & V E J 30:101-5 F '24

Air-washing fan. il Chem & Met Eng 31:980 D 22 '24

Cooling and conditioning of air. H. J. Macintire. diags plans Chem & Met Eng 32:437-42 Ap '25

Design, construction, and use of a constant humidity room. R. G. Parker and D. N. Jackman. bibliog il diags plan Soc Chem Ind J 44:223-33 My 15 '25

Good factory air pays in increased output. A. G. Anderson. Management & Adm 9:439-42, 531-4 My-Je '25

Health, heating costs and humidification. F. J. Andel. il diags Dom Eng 111:20-1 My 9 '25

Heat and humidity control in buildings. E. T. Murphy. il charts Am Soc Heat & V E J 29:565-75 O '23; Abstract. Heat & Ven 21: 65+ Ja '24

Manufactured weather. E. P. Heckel. il Dom Eng 111:36+ Ap 11 '25

Refrigeration and air conditioning in the bakery. C: A. Glabau. il Refrig Eng 11:18-20; Discussion. 20-1 Jl '24

AIR conditioning—*Continued*
Refrigeration in bakeries, chocolate and sweet factories; abstract. F. L. Groom. Refrig W 59:30 Ag '24
Regain, and what it means to manufacturers. A. W. Thompson. Textile World 66:765+ Ag 9 '24
Separating dust from air in industrial plants. C: L. Hubbard. il diags Ind Eng 83:366-72 Ag '25
We make our own weather; Whitman candy factory. W: S. Doughten. il Factory 35:418+ S '25

See also Air cleaners; Air filters; Air washers; Churches—Heating and ventilation; Cooling; Exhaust systems; Factories—Heating and ventilation; Heating; Humidity; Schoolhouses—Heating and ventilation; Smoke prevention; Ventilation

Cost

$10,000 a year saved by proper dye-house air conditions. C. E: Firth. il Textile Col 47:724-5 N '25

AIR conditions
Air conditions during sleeping hours. P. W. Goldsbury. Heat & Ven 22:68-70 Ag '25
Chart for determining the weight of moist air. J: E. Younger. Mech Eng 47:492-4 Je '25; Same. Refrig Eng 11:434-7 Je '25
Home economics. H. Almert. chart Prof Eng 10:13-14 Ag '25
House-humidifying requirements. il Heat & Ven 22:99-100 S '25
How dusty is air? M. Ingels. Am Soc Heat & V E J 31:415-18 Ag '25
Preliminary tests on the infiltration of air into buildings. F. H. Sibley. diag Am Soc Heat & V E J 30:311-16 Ap '24
Proper air conditions with heating. E. A. Stewart. Sheet Metal Worker 15:250+ Ap 25 '24
Proper heating conditions for the home. E. A. Stewart. Sheet Metal Worker 16:618-19+ S 25 '25
Right maintenance of artificial climate in the home. A. Ravenhill. Nation's Health 6:835-7 D 15 '24
Standard atmospheric conditions for paper testing. E. O. Reed. Ind & Eng Chem 16: 262-3 Mr '24

See also Air—Analysis; Air conditioning; Air pollution; Dust; Heating; Humidity; Ventilation

Physiological effects

Air motion—high temperatures and various humidities—reactions on human beings. W. J. McConnell, F. C. Houghten and C. P. Yagloglou. il Am Soc Heat & V E J 30:199-224 Mr '24
Atmosphere and its relation to human health and comfort. C.-E. A. Winslow. Am Soc C E Pro 51:794-810 My '25; Discussion. 51: 1160-5 Ag '25
Cooling effect on human beings produced by various air velocities. F. C. Houghten and C. P. Yagloglou. il charts Am Soc Heat & V E J 30:169-84 F '24; Discussion. 30:270-3 Mr '24
What warm air does to the body. W. A. Evans. Dom Eng 105:418 D 1 '23

See also Temperature—Physiological effects

AIR ejectors
Measuring amount of air discharged from air ejectors. C: E. Colburn. diags Blast F & Steel Pl 13:141-2 Mr '25

AIR engines
Air engine silently drives shaking chute conveyor. il diags Coal Age 27:385 Mr 5 '25
Ball bearing air motor. il Eng & Contr (Equip R) 62:988 O 29 '24
Novel and effective use of an air-driven hoist. V. H. Vandiver. Gas Age 54:710 N 15 '24
Rotary type air engine in portable pneumatic tools. il diag Automotive Ind 53:573 O 1 '25

See also Air turbines

Repair

Repair and maintenance of pneumatic tools. A. E. Hildebrandt. Ry R 75:480-1 S 27 '24

Testing

Device for testing pneumatic motors. E. A Murray. il diag Ry Mech Eng 98:117 F '24
Device for testing power of air motors. T. W. Henson. il diag Ry R 75:217-19 Ag 9 '24

AIR filters
A.R. air-filtering plant; an interesting French product. il diags Elec R (Lond) 95:876-7 D 5 '24
Bacteria and dust control in food product plants. B. H. Thurman. il diags Heat & Ven 21:77-8 Mr '24
Clean air for compressors. Eng & Contr (Ry) 61:403 F 20 '24
Clean air for compressors. Power Pl Eng 28: 663 Je 15 '24
Dividends from air. W. B. Spooner, jr. il Factory 34:446-50+ Mr '25
Dry air filters. S. E. Dibble. Am Soc Heat & V E J 31:411-12; Discussion. 412-14 Ag '25
Dry filter as a dust separator. E. V. Hill. il diag Sheet Metal Worker 15:743-5+, 826-7 O 24, N 21 '24
Dry filters in dust collection. il diags Sheet Metal Worker 16:685-7+ O 23 '25
Dust factor in factory ventilation. C: Bindrich. il diags plans Textile World 64:3309-10+ D 1 '23; Same. Heat & Ven 20:64-5 D '23; Same cond. Factory 31:814+ D '23
Keeping solid impurities out of the air-compressor intake. W: V. Fitzgerald. diag Power 59:599-600 Ap 15 '24
One method of obtaining clean air for air compressors and its advantages. C. H. Leighton. il Ind Eng 82:40 Ja '24
Phoenix self-cleaning air filters using oil film. il diag Power 62:505 S 29 '25
Ventex air filter; an ozonair production. il Elec R (Lond) 95:808 N 28 '24

See also Air cleaners, Automobile

AIR flow
Aerology for amateurs and others. E. V. Hill. il diag Heat & Ven 21:45-8 Mr; 49-50 My '24
Der druckabfall in glatten rohren und die durchflussziffer von normaldüsen. M. Jakob and S. Erk. diags Zeit Ver Deutsch Ing 68: 581-4 My 31 '24
Eddies formed behind apertures through which air is streaming. A. L. Griffith and A. W. Porter. diag Philos Mag 6th ser 49:649-62 Ap '25
Entrainment of air by a jet of gas issuing from a small orifice in a thin plate. J. S. G. Thomas. diags Philos Mag 6th ser 47:1048-56 My '24
Experimental study of air lift pumps and application of results to design. C. N. Ward and L: H. Kessler. il diags tables Wis U Bul Eng S v 9 no 4:1-166 '24
Measurement of air flow; Callendar hot wire anemometer. R. O. King. il diag Engineering 117:136-7, 249-51 F 1, 22 '24; Discussion. J: L. Hodgson. 117:314 Mr 7 '24
Measurement of air removed from surface condenser. diag Power 60:991, 1031 D 16-23 '24
New theory of fluid flow. A. B. Cox. J Fr Inst 198:769-93 [bibliog. p. 792-3] D '24
Photographing an air jet. A. J. Nicholas. il diags Power 61:603-4 Ap 21 '25
Simultaneous flow of water and air in pipes. L. S. O'Bannon. diag charts Am Soc Heat & V E J 30:225-33 Mr '24; Abstract. Mech Eng 46:421-2 Jl '24; Discussion. Am Soc Heat & V E J 30:233-4 Mr '24
Table for determining drop in pressure in airways. W. S. Weeks and J: T. Rutherford. Eng & Min J 110:1048-9 Je 27 '25
Transmission of air-waves through pipes. L. F. G. Simmons and F. C. Johansen. diag Philos Mag 6th ser 50:553-70 S '25
Turbine nozzle loss analyzed by air-flow measurement. il diags Power 60:875-7 D 2 '24

AIR flow—*Continued*
Velocity of wind in conical ducts. A. Thom and J. Small. diags Engineer 139:262-3 Mr 6 '25
Using the mixture method in measuring flow of gases. C: P. Turner and B. W. Winship. il plan Chem & Met Eng 30:633-5 Ap 21 '24
See also Gas flow

AIR gaps
Shape of pole-shoe required to produce a sinusoidal distribution of air-gap flux density. B. Hague. diags Inst E E J 62:921-9 N '24

AIR heaters
Air heaters. G: Henry. Engineer 137:128 F 1 '24
Air passes through tubes in new unit heater. il Power Pl Eng 28:628 Je 1 '24
Air preheaters. C. W. E. Clarke. diags Mech Eng 47:175-8; Discussion. 178-83 Mr '25; Abstract. Power 61:486-9 Mr 31 '25
Air preheaters and their application. il diags Power 60:884-9 D 2 '24
Air preheaters in the power plant. il diag Power Pl Eng 29:940-3 S 15 '25
Bids on boiler auxiliary equipment of Detroit municipal plant; air preheaters. Power 61: 605 Ap 21 '25
Boiler air pre-heating. S. C. Miller. il Iron Age 115:1832 Je 25 '25
Boiler furnace design. E. B. Ricketts. diags Power 59:780-2 My 13 '24; Same cond. Power Pl Eng 28:473-6 My 1 '24
Boiler-test results with preheated air. C. W. E. Clarke. diags Mech Eng 46:64-72 F '24; Same cond. Power Pl Eng 27:1228-32 D 15 '23; Same cond. Power 58:902-3 D 4 '23
C E C air heater employs counterflow principle. diags Power Pl Eng 28:208-9 F 1 '24; Chem & Met Eng 30:197 F 4 '24
Conditions affecting the use of preheated air. Power Pl Eng 29:734-5 Jl 12 '25; Discussion. 29:861 Ag 15 '25
Discourse on draught for rolling mill furnaces. W: Lester. Blast F & Steel Pl 13:404+ O '25
Dollars value of heated air. W. F. Schaphorst. chart Textile World 65:3631+ My 31 '24
Extending heat cycle in boiler rooms by use of preheated air for combustion purposes; abstracts. J. G. Worker. il Blast F & Steel Pl 13:412-13 O '25; Power 62:545 O 6 '25
Howden-Ljungstrom air preheater. F. S. B. Heward. il diags Sibley J 37:221-3+ D '23
Howden-Ljungstrom preheater trials. Cassier's Ind Management 12:195 Mr '25
Plates held by springs in new air preheater. diags Power Pl Eng 28:980 S 15 '24
Le préchauffage de l'air de la combustion. Roszak. diags Soc Ing Civils Bul 76:1145-70 O '23
Pre-heated air in modern boiler plant. C: Erith. diags Elec R (Lond) 96:164-6 Ja 30 '25
Preheating air to reduce smoke. diag Power 59:167 Ja 29 '24
Progress of air preheating. Elec W 85:352-3 F 14 '25
Rectangular tube air pre-heater. diags Engineering 118:209 Ag 8 '24; Power Pl Eng 28: 1099 N 1 '24
Revival of air preheating. Power 60:779 N 11 '24; Discussion. W. H. Odell. 60:909-10 D 2 '24
Tests on a cylindrical marine boiler with and without preheated air. W. H. Owen. charts diags Marine Eng 29:244-8 Ap '24; Same cond. Engineer 137:209 F 22 '24; Abstract. Engineering 117:210-11 F 15 '24
Untersuchungen zur ermittlung des zur richtigen verbrennung erforderlichen querschnittsverhältnisses von luft- und gaseinströmung in den winderhitzer. R. Kahlenberg. Stahl & Eisen 45:1743-6 O 15 '25
Using indirect radiation to heat combustion air. Power 60:955, 1073-4; 61:151 D 9, 30 '24, Ja 27 '25
Weldex air heater. diags Engineer 138:139 Ag 1 '24

AIR leakage. See Building—Heating aspects

AIR lifts
Air hoist saves floor space in steel chip disposal. W. H. Wineman. il Ind Eng 83: 347 Jl '25
Air lift pumping at Dubuque, Iowa. J. W. McEvoy. Munic & Co Eng 67:263-5 N '24; Same. Am Water Works Assn J 14:23-8 Jl '25
Air-lift pumping system quickly raises water from flooded anthracite mine areas. E. J. Gealy. il diags Coal Age 28:143-6 Jl 30 '25
Electrifying Ogden's water supply. il J Elec 52:285 Ap 15 '24
Experimental study of air lift pumps and application of results to design. C. N. Ward and L: H. Kessler. il diags tables Wis U Bul Eng S v 9 no 4:1-166 [bibliog. p. 95-9] '24; Abstract. Eng & Contr (W W) 61:1273-8 Je 11 '24; Conclusions. Pub Works 56:22-3 Ja '25
Increasing flow of wells with air. diags Eng & Contr (W W) 62:1257-8 D 10 '24
New method of pumping oil wells now used in southeast Ohio; Smith-Dunn air pumps. J. O. Lewis. diags Nat Pet N 16:53-4 F 20 '24
With air lift flood water can be removed at a single inexpensive setting of equipment. E. J. Gealy. il diags Coal Age 26:868-70 D 18 '24

AIR mail service. See Postal service, Aerial

AIR meters
Air leakage in condensers detected by air meter. diag Power Pl Eng 29:229 F 15 '25
Cutting out the waste in the factory air system. F. Johnstone-Taylor. diags Cassier's Ind Management 11:239-40+ My 1 '24; Excerpts. Factory 32:924+ Je '24

AIR pipes
Compressed air piping. Power Pl Eng 28:745 Jl 15 '24
Discussion on design and layout of duct fittings. diags Sheet Metal Worker 15:569-71 Ag 15 '24
Five tons of copper for exhaust ducts. il Sheet Metal Worker 15:563-4 Ag 15 '24
Large colliery compressed air transmission scheme. diags plan Engineer 140:261-2, 268 S 11 '25
Removing water from air lines. il Elec Ry J 65:902 Je 6 '25
Report on air brake and air signal piping. diag Ry Mech Eng 99:475 Jl '25
Tests of air pressure losses in activated-sludge plants. R. J. Bushee and S. I. Jack. Eng N 93:823-4 N 20 '24
Things to know about fan application. H. W. Pfeffer. il chart diag Sheet Metal Worker 15:283-5+ My 9 '24

AIR pollution
Air pollution from the engineer's standpoint. J: B. C. Kershaw. il diag Engineer 140: 168-9 Ag 14 '25
Atmospheric pollution. Gas J (Lond) 166:847 Je 18 '24
Atmospheric pollution and smoke abatement. J: B. C. Kershaw. diags Engineer 138:545-6 N 14 '24
Automatic measurement of atmospheric pollution. J: S. Owens. Soc Chem Ind J (Chem & Ind) 43:866-71 Ag 29 '24
Industrial poisoning by inhalation. L. Preti. J Ind Hygiene 7:124-43 Mr '25
Minimum of air contamination in industry. Nation's Health 6:410-11+ Je '24
See also Dust; Mine air; Ventilation

AIR ports
L'aéroport de Rotterdam (Hollande). Génie Civil 85:198-9 Ag 30 '24
Building of the Boston airport. E: P. Warner. il Aviation 18:291-3 Mr 16 '25
Detroit, Michigán. V. Simmons. Aviation 18: 728-9 Je 29 '25
Detroit will have two modern airports. il Aviation 17:1329-30 D 1 '24
Ford airport constructed in the interests of commercial aviation. il Automotive Ind 51: 888 N 20 '24

AIR ports—*Continued*
Future of the air terminal. D. Huntington. diags Aviation 16:423-5 Ap 21 '24
Privately owned and operated air terminals. H. F. Wehrle. Aviation 18:107-8 Ja 26 '25
Seaplane base for commercial air transport. E. D. Osborn. il Aviation 16:123-4 F 4 '24
Toledo lays plans for large airport. Automotive Ind 52:641 Ap 2 '25
See also Air routes; Aviation landing stations

AIR preheating. See Air heaters

AIR pressure. See Air resistance

AIR pumps
All metal packing for locomotive air pumps. diag Ry R 75:141-2 Jl 26 '24
Cleaning out air pumps. il diag Ry Mech Eng 98:558 S '24
Economy of the steam jet air pump. H. E. Carleton. Power Pl Eng 29:595 Je 1 '25
Laundering locomotive air pumps in one hour. F. H. Colvin. il Am Mach 62:815-18 My 21 '25
Reason for counterbore in air pumps. Ry Mech Eng 98:72 F '24
Selecting the right size of air pump. H. E. Carleton. Power Pl Eng 29:791-2 Ag 1 '25
Vickers' contraflo reciprocating air pumps. il Engineering 118:573 O 24 '24
Wasser- und dampfstrahl-luftpumpen für oberflächenkondensatoren insbesondere auf schiffen. Zeit Ver Deutsch Ing 68:288-92 Mr 22 '24
Wasserstrahl-luftpumpen mit trennung der druckwassererzeugung. E. Sommer. diags Zeit Ver Deutsch Ing 68:861-2 Ag 16 '24
See also Air compressors; Air lifts

Manufacture
Five air-brake pump operations. il Am Mach 63:257-8 Ag 13 '25
Piston rods and rings for air pumps. F. H. Colvin. il Am Mach 63:339-40 Ag 27 '25

Repair
Boring bar for compound pump cylinders. E. A. Murray. il diags Ry Mech Eng 99:57 Ja '25
Handy bench for repairing air pumps. il diag Ry Mech Eng 99:234-5 Ap '25

AIR purification
See Air conditioning; Air filters; Air washers; Air washing; Ozone; Ventilation

AIR receivers
Experience with autogenously welded air receiver. diags Eng N 92:252, 462 F 7, Mr 13 '24
Pressure vessels—fired and unfired. il Nat Safety N 11:35-43 My '25
Prevention of explosions in air receivers. W. F. Parish and W. B. S. Whaley. Inst Pet Tech J 11:305-10 Je '25; Same. Safety Eng 50:57-60 Jl '25; Same cond. Power 61:1048 Je 30 '25; Same cond. Power Pl Eng 29:755-6 Jl 15 '25; Discussion. Power 62:339 S 1 '25

AIR resistance
Air resistance caused by mine cars in coal-mine entries. J. W. Paul, H. P. Greenwald and G. E. McElroy. J Fr Inst 198:833-4 D '24
Car resists air as much as 100 ft. or more of entry. Coal Age 27:214 F 5 '25
Influence of model surface and air flow texture on resistance of aerodynamic bodies. A. F. Zahm. U S Nat Advisory Com for Aeronautics 1922:151-6 '23
Resistance of air to falling spheres. R. G. Lunnon. Philos Mag 6th ser 47:173-82 Ja '24
Tunnel built to determine air resistance of automobiles. Automotive Ind 51:33 Jl 3 '24
Wind resistance on motor vehicles. L. E. Conrad. Nat Research Council Bul v 8, pt 1: 35-8 Mr '24
Windage losses in air, hydrogen, and carbon dioxide. C. W. Rice. il diags Gen Elec R 28:336-41 My '25

AIR routes
Air as a raw material. W. S. Rogers. Ann Am Acad 112:251-5 Mr '24
Air traffic in Europe. il map Sci Am 133:8-9 Jl '25
Tri-state airway across New Mexico, Arizona and California. G. K. Spencer. Aviation 18:638-9 Je 8 '25
See also Aeronautics, Commercial; Air ports

Lighting
Lighting air-mail route. il Elec W 84:830 O 18 '24
New airmail flood lights. il Aviation 19:684 N 9 '25
Night-flying equipment and operation. H. R. Harris and D. L. Bruner. il Mech Eng 46: 274-8 My '24
Preparing the night airway. E. D. Osborn. il Aviation 18:604-5 Je 1 '25

AIR separation (pulverizers). See Pulverizers

AIR separators
Hickman air separator; abstract. il Mech Eng 46:219 Ap '24

AIR speed indicators
Altitude effect on air speed indicators. H. N. Eaton and W. A. MacNair. il diags U S Nat Advisory Com for Aeronautics 1922: 571-616 '23

AIR turbines
La réalisation de très grandes vitesses de rotation. E. Henriot and E. Huguenard. diag Génie Civil 86:538-9 My 30 '25; Abstract. Mech Eng 47:669 Ag '25
Turbine drive for propeller models. L. H. Crook. il diags J Fr Inst 198:85-91 Jl '24

AIR washers
Air washers as a means toward ideal ventilation. W. J. Williams. diag Sheet Metal Worker 15:781-2 N 7 '24
Clarage air washer. il Power 59:187 Ja 29 '24
Dry filter as a dust separator. E. V. Hill. il diag Sheet Metal Worker 15:743-5+, 826-7 O 24, N 21 '24
Problems in waste product recovery and air purification. A. L. Greene. Chem & Met Eng 30:992 Je 23 '24
Ventilating electrical machinery. il Iron Tr R 75:1443-6 N 27 '24
Washing the air. il Dom Eng 112:38+ Ag 1 '25

AIR washing
Cooling of air. J. R. Preston. chart Heat & Ven 20:47-50 N '23

AIRCRAFT
See also Airplanes; Airships; Balloons; Flying boats; Flying machines; Gliders; Helicopters; Hydroplanes; Langley flying machine; Seaplanes; Torpedoplanes

Standards
Army-navy standards approved. diags Soc Auto Eng J 16:582-5 Je '25

AIRCRAFT industry
See also Airplane industry and trade; *also* Pratt and Whitney aircraft company

France
French and German aircraft industries. Aviation 16:643-4 Je 16 '24

Germany
French and German aircraft industries. Aviation 16:644 Je 16 '24

Great Britain
Problems of aircraft production in Great Britain. Aviation 16:151-3 F 11 '24

United States
Aircraft industry's needs; report of the Air board. Aviation 19:629-31 N 2 '25
America to take world leadership in dirigible development; impending purchase of Zeppelin rights and patents by Goodyear. Automotive Ind 49:953-4 N 8 '23
American aircraft exports. Aviation 17:865 Ag 11 '24

AIRCRAFT industry—United States—*Cont.*
Census of aircraft manufactures, 1923. Aviation 17:1460 D 29 '24
Expenditures of government with aircraft industry. F. H. La Guardia. Aviation 18:98-104 Ja 26 '25
1924 aircraft exports nearly double. Aviation 19:13 Jl 6 '25
Reason why aircraft cost so much. Aviation 18:345 Mr 30 '25
Revival of manufacturing at Buffalo. il Aviation 19:280-1 S 7 '25
Rickenbacker opposes subsidies. Aviation 16: 223-4 Mr 3 '24
$7,500,177.42 contracts with the industry as of Dec. 31, 1924. Aviation 18:544 My 18 '25
Shutting down the aeronautical industry. Aviation 16:282-3 Mr 17 '24
Special aircraft industry committee; its inception, plan and achievements. Aviation 19:146-7 Ag 10 '25

AIRCRAFT mechanics' schools
Training of aircraft apprentices at Halton camp. Engineer 137:119-20, 139-41, 148, 167-70 F 1-15 '24

AIRFOILS. See Airplane wings

AIRPLANE carriers
Aircraft carrier Saratoga launched. C. D. Wilbur; W: A. Moffett. Aviation 18:434-5 Ap 20 '25
Airplane carrier Hermes. il Sci Am 131:248-9 O '24
Airplane carrier Saratoga launched at Camden. il Marine Eng 30:258-9 My '25
British navy aircraft carriers. Engineering 116:564-5, pl 30-2 N 2 '23
Catapulting and receiving. il Sci Am 132:123 F '25
Landing-field that goes to sea; U.S.S. Langley. il Sci Am 131:94-5+ Ag '24
Launching the airplane carrier Saratoga. E. H. Rigg. il diag Marine Eng 30:391-5 Jl '25
Les navires porteurs d'avions. il plan Génie Civil 83:505-10 N 24 '23
Novel checking device used in launching U.S. airplane carrier Lexington. il Marine Eng 30:604-5+ N '25
$22,000,000 more for aircraft carriers. Aviation 18:186 F 16 '25
United States aircraft carrier Lexington. Engineering 120:452-3 O 9 '25
U.S. airplane carrier Lexington to be launched on October 3. il Marine Eng 30: 558 O '25

AIRPLANE carriers (airplanes)
Scheme of aerial bombardment; use of giant airplanes as airplane carriers. R. F. Hall. il diag Aviation 18:467 Ap 27 '25

AIRPLANE carriers (airships)
Contact and refueling now accomplished in the air. H. H. Arnold. il Sci Am 133:90-1 Ag '25
Hooking an airplane to an airship; experiments show the practicability of both landing at and taking off an airship. Aviation 18:378-9 Ap 6 '25

AIRPLANE compass. See Compass

AIRPLANE dope
Aviation dopes or varnishes. M. Deschiens. Soc Chem Ind J (Chem & Ind) 44:902-7 S 11 '25
Dopes and fabric. J. E. Ramsbottom. il Roy Aeronautical Soc J 28:273-305; Discussion. 305-14 My '24

AIRPLANE engines
Achievements of American aircraft-engine industry. E. T. Jones. Mech Eng 47:790-1 O '25
Aeronautics at the British Empire exhibition. il Engineering 117:550-3, pl 51-2 Ap 25 '24
Airplane-engine generator-problems. Soc Auto Eng J 17:510 N '25
Beardmore crude-oil aircraft motor. Mech Eng 47:502 Je '25
Bristol Jupiter aircraft engine. il diags Automobile Eng 15:96-103 Ap '25
Cirrus 60-h.p. engine for light aeroplanes. il diags Engineering 119:572-3 My 8 '25
Development of high-speed aircraft. R. Mayo. il Roy Aeronautical Soc J 28:158-82; Discussion. 183-8 Mr '24
Economy of air cooling; Wright Whirlwind engine. K. J. Boedecker. il Aviation 18:492-3 My 4 '25
85 lb. airplane engine develops 28 hp. A. F. Denham. il Automotive Ind 53:66 Jl 9 '25
Engine dynamics and crankshaft design. G. D. Angle. 299p Airplane engine encyclopedia co., Detroit '25
Die entwicklung des flugmotors seit dem kriege. H. Baer. il diag Zeit Ver Deutsch Ing 68:539-44 My 31 '24
Experiments on the generation of critical steam. J. F. Overwyn. diags Power 60:693-4 O 28 '24
First Knight sleeve valve airplane engine ever built. il Automotive Ind 53:341 Ag 27 '25
Flugmotoren auf der neunten Pariser luftfahrtausstellung. F. Gosslau. il Zeit Ver Deutsch Ing 69:1325-9 O 17 '25
French tests show effect of compression variations on engine efficiency. Automotive Ind 51:856 N 13 '24
Gas turbine. Sci Am 133:57+ Jl '25
Jet propulsion for airplanes. E. Buckingham. U S Nat Advisory Com for Aeronautics 1923:75-90 '24
Light aeroplane engine development. L. F. R. Fell. diags Roy Aeronautical Soc J 29:168-77; Discussion. 177-88 Ap '25
Light plane development and the N. A. A.; with partial list of available light plane engines. Aviation 17:1404-5 D 15 '24
Luftgekühlte flugmotoren. F. Gosslau. il diag Zeit Ver Deutsch Ing 68:921-5 S 6 '24
Morehouse light plane engine. H. E. Morehouse. il diags Aviation 18:602-3 Je 1 '25
Les moteurs d'aviation à très haute compression. P. Dumanois. Génie Civil 85:46 Jl 12 '24
Les moteurs d'avion à deux temps. J. Jalbert. Génie Civil 87:256 S 19 '25
Napier aero engines. il Aviation 16:669 Je 23 '24
Napier Cub 1,000 hp. engine. il Aviation 17: 963 S 8 '24
La IXe exposition internationale de l'aéronautique (Paris, 5-21 décembre 1924). A. Lesage. il diags Génie Civil 85:573-7 D 20 '24
New aircraft motors; abstract. J. A. Lefranc. Mech Eng 46:705 N '24
New engine for light planes. G. D. Angle. il Aviation 16:146-7 F 11 '24
New Packard aircraft engines. il diags Aviation 18:517-20 My 11 '25
New three-purpose commercial plane uses Salmson radial engine. il Automotive Ind 53:327 Ag 27 '25
New type of motor; the Bill motor. il Aviation 17:1340 D 1 '24
One pound per horsepower. il diag Sci Am 132:346+ My '25
1,000 h.p. Rumpler aircraft engine. diags Automobile Eng 15:170-5 Je '25
Power installations on aircraft. A. H. Tiltman. il diags Automobile Eng 15:286-91 S '25
Power plants for U.S. navy aircraft. E. E. Wilson. il diags Mech Eng 47:783-9 O '25
Progress toward 1000 hp. aircraft engines. G. D. Angle. il Aviation 16:198-200 F 25 '24; Same. Am Mach 61:181-4 Jl 31 '24
Radial air-cooled aero engines. A. H. R. Fedden. Roy Aeronautical Soc J 28:260-7 Ap '24
Recent developments in aircraft engines. L. M. Woolson. il diags Soc Auto Eng J 16:297-309 Mr '25; Abstract. Mech Eng 47:349-51 My '25; Discussion. Soc Auto Eng J 16: 617-19 Je '25
Reliability of aircraft engines. J. D. Siddeley. Roy Aeronautical Soc J 29:132-40 Mr '25
Renault V-type engine makes record on 8066-mile flight. Automotive Ind 52:909 My 21 '25
Report of the committee on power plants for aircraft. U S Nat Advisory Com for Aeronautics 1922:22-30 '23

AIRPLANE engines—*Continued*
Review of foreign engines for light planes. il diags Aviation 15:766-9 D 24 '23
Rolls-Royce Condor, series III. diags Mech Eng 46:634-5 O '24
Side lights on the Paris to Tokyo flight; the Lorraine-Dietrich engine. Aviation 17:774-6 Jl 21 '24
Siskin II aeroplane and Jaguar aero engine. diags Engineering 118:864, 870-1, pl 83 D 26 '24
600 hp. single engined Farman Goliath. il Aviation 17:1276-8 N 17 '24
Some aspects of aircraft-engine development. G. J. Mead. il Soc Auto Eng J 17:496-507 N '25
$10,000 airplane engine depreciates $10.60 per hour of service. A. Black. Automotive Ind 53:411-13 S 10 '25
Two-cylinder sport plane engine is built to Morehouse design. G. D. Angle. il Automotive Ind 50:342-3 F 14 '24
Vast strides made in development of commercial aircraft. L. S. Gillette. il Automotive Ind 52:1092-8 Je 25 '25
Wars have forced major developments in U.S. airplane engine design. H. H. Arnold. Automotive Ind 53:297-300 Ag 20 '25
Work of the fatigue panel of the aeronautical research committee. C. F. Jenkin. Engineering 118:245 Ag 15 '24; Discussion. 118: 284-5 Ag 29 '24
Wright aeronautical engines. Aviation 15:601 N 12 '23
Wright cyclone aviation engine. il Aviation 18:185, 576 F 16, My 25 '25

See also Airship engines

Air supply

Relationship of air consumption to brake horse-power in internal combustion engines; road and flight tests. H. Moss. diags Engineering 117:507-9 Ap 18 '24; Abstracts. Automotive Ind 50:1131-2 My 22 '24; Engineer 137:416 Ap 18 '24; Discussion. Engineering 117:502-4, 585 Ap 18, My 2 '24; Engineer 137:416-17 Ap 18 '24

Cooling

Air-cooled engine development. S. D. Heron. il diags Mech Eng 47:791-3 O '25; Same cond. Soc Auto Eng J 17:398 O '25
Air-cooled triumph. il Sci Am 133:127-8 Ag '25
Design of air-cooled cylinders. C. F. Taylor. diags Aviation 18:634-6, 664-7 Je 8-15 '25; Abstract. Mech Eng 47:647 Ag '25
Economy of air cooling; Wright Whirlwind engine. K. J. Boedecker. il Aviation 18:492-3 My 4 '25
Exhaust-valves and guides for aircraft engines. S. D. Heron. il diags Soc Auto Eng J 15:122-32 Ag '24; Same. Automobile Eng 15:18-24 Ja '25
Luftgekühlte flugmotoren. F. Gosslau. il diag Zeit Ver Deutsch Ing 68:921-5 S 6 '24
Mathematical equations for heat conduction in the fins of air-cooled engines. D. R. Harper and W. B. Brown. U S Nat Advisory Com for Aeronautics 1922:677-708 '23
Radial air-cooled aero engines. A. H. R. Fedden. Roy Aeronautical Soc J 28:260-7 Ap '24
Water-cooled aero engines. A. J. Rowledge. il diags Engineering 117:59-62 Ja 11 '24; Same cond. Automobile Eng 14:50-4 F '24

Design

Airplane-engine designing for reliability. G. J. Mead. il diags Soc Auto Eng J 14:277-85 Mr '24
New type of engine for large aircraft. G. D. Angle. diags Aviation 17:832-4 Ag 4 '24
Water-cooled aero engines. A. J. Rowledge. il diags Engineering 117:59-62 Ja 11 '24; Same cond. Automobile Eng 14:50-4 F '24

Exhaust

Water recovery for airships. H. F. Parker. Soc Auto Eng J 15:532-5 D '24

Failures

Aeroplane crashes and ignition circuits. A. C. Booth. diags Elec R (Lond) 96:406-7 Mr 13 '25; Discussion. 96:490-1, 559-60, 609, 692, 798, 810 Mr 27-Ap 3, 17, My 1, 15-22 '25

Fuel

Fuel economy in flight. H. T. Tizard. Roy Aeronautical Soc J 28:604-24 O '24; Abstract. Engineering 117:738 Je 6 '24
Navy asks refiners for anti-knock fuel for airplanes. Nat Pet N 16:21-2 Jl 23; 81-3 Jl 30 '24

Ignition

Aeroplane crashes and ignition circuits. A. C. Booth. diags Elec R (Lond) 96:406-7 Mr 13 '25; Discussion. 96:490-1, 559-60, 609, 692, 798, 810 Mr 27-Ap 3, 17, My 1, 15-22 '25
Air-steam ignition for oil engines. R. Matthews. il Power 62:714-15 N 10 '25
Effect of electrode temperature on the sparking voltage of short spark gaps. F: B. Silsbee. diag U S Nat Advisory Com for Aeronautics 1923:347-54 '24
Investigation of the sparking voltage of spark gaps. F. B. Silsbee. Automotive Ind 52:539-42 Mr 19 '25
Thermo-dynamics of aircraft engines. H. R. Ricardo. Roy Aeronautical Soc J 28:49-75; Discussion 75-87 F '24
Uber die beseitigung der störenden wirkung des elektrischen zündsystems der explosions-motoren auf den radioempfang bei flugzeugen. V. S. Kulebakin. diags Elektrotech Zeit 46:1061-7 Jl 16 '25

See also Magnetos

Lubrication

Effective method of cleaning engine oil. G. D. Angle. il diags Aviation 17:1398-9 D 15 '24

Manufacture

Aluminium alloys for aeroplane engines. F. C. Lea. il diags Roy Aeronautical Soc J 29: 338-98 Ag '25
Bristol Jupiter aero-engine and its manufacture. il diags Engineering 120:290-2, 294, 321-3, pl 20-3 S 4-11 '25
D. Napier & son, ltd., the makers of Napier engines. il Aviation 19:586-7 O 26 '25
Difficult piece of machine work; finishing the interior of a cylinder casting of unusual shape. A. T. Gregory. il chart diags Am Mach 63:685-6 O 29 '25
New process of steel cylinder construction. G. D. Angle. diags plan Aviation 15:794-5 D 31 '23
Unusual manufacturing difficulties, investigation and cure; Curtiss aeroplane and motor company. C. R. Keys. il Management & Adm 9:373-4 Ap '25

Performance

Engine performance and the determination of absolute ceiling. W. S. Diehl. U S Nat Advisory Com for Aeronautics 1923:241-50 '24
Performance of B.M.W. 185-horsepower airplane engine. S. W. Sparrow. U S Nat Advisory Com for Aeronautics 1922:101-10 '23
Performance of Maybach 300-horsepower airplane engine. S. W. Sparrow. U S Nat Advisory Com for Aeronautics 1922:89-99 '23

Radiators

André hexagonal tube radiator. R. F. Steidel. il Aviation 16:697-8 Je 30 '24
Hot-wire anemometer for measuring air flow through engine radiators. C. G. F. Zobel and L. B. Carroll. U S Bur Stand Tech Pa 287:287-96 '25
Modern radiators for aeronautical engines. diag Aviation 16:536-7 My 19 '24

Specifications

American and British aircraft engine specifications; tabulation. Automotive Ind 50:463; 52:421 F 21 '24, F 26 '25

Starting devices

Aeromarine starter. il Aviation 19:391-2 S 28 '25

AIRPLANE engines—Starting devices—*Cont.*
Building starters for aeronautical motors. P. T. Ash. il diag Am Mach 62:463-5 Mr 19 '25
Engine accessories at Paris aero salon. diags Aviation 18:298-9 Mr 16 '25
Inertia type starter for aircraft engines developed. il Automotive Ind 52:137 Ja 22 '25

Superchargers

Airplane supercharger. S. Moss. Soc Auto Eng J 16:14 Ja '25
Airplane turbo-supercharger development in the United States. D: Gregg. il diag Soc Auto Eng J 14:532-8 My '24
Superchargers. D: Gregg. il diag Aviation 19: 90-2 Jl 27 '25; Abstract. Mech Eng 47:853-4 O '25
Supercharging. J. G. Cameron. Automobile Eng 15:244-7 Ag '25

Testing

Air ministry tests for aero-engines. Engineering 120:171-2 Ag 7 '25
Determining the power required for motoring an engine. Automotive Ind 52:812 My 7 '25
Effect of altitude on engine power revealed by Bureau tests. Automotive Ind 50:1126-7 My 22 '24
Langley field research on high-speed oil engines. R. Matthews. il diags Power 62:685-8, 714-15 N 3-10 '25
Mechanical efficiency of an internal combustion engine. H. Moss and W. J. Stern. Automobile Eng 15:78-82 Mr '25; Abstract. Mech Eng 47:503-4 Je '25
100 hr. Jupiter test at 425 rated hp. Aviation 18:219 F 23 '25
Sleeve valve aircraft engine passed French endurance test. W. F. Bradley. il Automotive Ind 53:632-3 O 8 '25
Two gages for aero-engine cylinders. W. H. Thompson. il diags Am Mach 60:297-8 F 21 '24
Wright Cyclone engine flight tested. Aviation 19:211 Ag 24 '25

Timing gear

Increasing engine power at altitude by using a variable timing gear. il Aviation 18:641 Je 8 '25

Valves

Characteristics of material for valves operating at high temperatures. J. B. Johnson and S. A. Christiansen. il Am Soc T M Pro 24 pt 2:383-400 '24
Exhaust-valves and guides for aircraft engines. S. D. Heron. il diags Soc Auto Eng J 15:122-32 Ag '24; Same. Automobile Eng 15:18-24 Ja '25
Patents issued on two new valve constructions; the Brequet and Newton valves. diags Automotive Ind 51:798 N 6 '24
Progressive inspection gage for valve rocker. P. F. Shafran. diags Mach 31:680 My '25
Sleeve valve aircraft engine passed French endurance test. W. F. Bradley. il Automotive Ind 53:632-3 O 8 '25
Tests on valve materials made under working conditions. J. B. Johnson and S. A. Christianson. Automotive Ind 51:110-12 Jl 10 '24

AIRPLANE fabric
Action of light on textiles. G. Barr. Color Tr J 15:176-7 D '24
Dopes and fabric. J. E. Ramsbottom. il Roy Aeronautical Soc J 28:273-305; Discussion. 305-14 My '24
Properties of air-craft fabrics. J. E. Ramsbottom. Color Tr J 15:146-7 N '24

Testing

Appareil pour la vérification rapide de la résistance des voilures d'avions. diags Génie Civil 86:635-6 Je 27 '25

AIRPLANE industry and trade
See also Aircraft industry

Advertising

Direct-mail campaign brings Ford into aviation. D: R. Erwin. Ptr Ink 132:25-6+ S 24 '25

France

How France gets planes at low cost. Am Mach 63:607 O 15 '25

United States

Airplanes and parts exported by U.S. Automotive Ind 52:711 Ap 16 '25
Commercial plane production in U.S. approaching 1500 a year. A. F. Denham. il Automotive Ind 53:579-82 O 1 '25
Fokker-Kansas City company; Fokker plans to become resident of U.S.A. and build here. il Aviation 19:239-41 Ag 31 '25
Future market for airplanes. E: P. Warner. il Aviation 17:958-60 S 8 '24
U.S. airplane exports are doubled in 1924. Automotive Ind 52:328 F 19 '25

AIRPLANE landing stations. See Aviation landing stations

AIRPLANE propellers
Analysis of free flight propeller tests and its application to design. M. M. Munk. U S Nat Advisory Com for Aeronautics 1923: 441-50 '24
As fast as sound. Sci Am 133:59 Jl '25
Description of the Curtiss Reed metal propeller. il Aviation 15:630 N 19 '23
Effect of slipstream obstructions on air propellers. E. P. Lesley and B. M. Woods. il U S Nat Advisory Com for Aeronautics 1923:313-34 '24
First magnesium propeller successfully tested. il Aviation 18:248 Mr 2 '25
General efficiency curve for air propellers. W. S. Diehl. U S Nat Advisory Com for Aeronautics 1923:207-15 '24
Hélices d'aéronautique construites en bakelite agglomérée, ou micarta. Génie Civil 84:458 My 10 '24
Internal stresses in laminated construction. A. L. Heim, A. C. Knauss and L: Seutter. il diags U S Nat Advisory Com for Aeronautics 1922:325-82 '23
Leitner-Watts metal propeller. il Aviation 19:244-5 Ag 31 '25
Méthode graphique pour l'adaptation des hélices aux avions. G. Delanghe. Génie Civil 84:185-7 F 23 '24
Micarta propellers. Sci Am 132:55+ Ja '25
Nieuport produces steel propeller. diag Aviation 18:191 F 16 '25
Pistolesi variable-pitch airscrew. diag Mech Eng 47:500 Je '25
Propulseur trompe for aeroplanes. diag Engineer 140:301 S 18 '25
Relative efficiency of direct and geared drive propellers. W. S. Diehl. U S Nat Advisory Com for Aeronautics 1923:337-43 '24
Weiterer beitrag zur theorie der luftschrauben. T. Bienen. Zeit Ver Deutsch Ing 69: 847-50 Je 20 '25
Zur theorie der luftschrauben. T. Bienen and T. v. Kármán. Zeit Ver Deutsch Ing 68: 1237-42, 1315-18 N 29, D 20 '24

Testing

Analysis of W. F. Durand's and E. P. Lesley's propeller tests. M. M. Munk. U S Nat Advisory Com for Aeronautics 1923: 291-302 '24
Experimental research on air propellers. W. F. Durand and E. P. Lesley. diags U S Nat Advisory Com for Aeronautics 1922: 167-241 '23

AIRPLANE races
Aftermaths of the New York air races. il Aviation 19:592-3 O 26 '25
Air tour for commercial planes—1,750 miles. il map Am Mach 63:493-4 S 24 '25
As many biplanes as monoplanes fly in German "Rundflug." A. F. Denham. Automotive Ind 53:106-7 Jl 16 '25
Baltimore seaplane meet. C. G. Grey. Aviation 17:1221-2 N 3 '24
Commercial airplane reliability tour; rules for the award of the Ford trophy. il Aviation 19:206-7 Ag 24 '25

AIRPLANE races—*Continued*
Dayton air meet. Mech Eng 46:724-5 N '24
Dayton air meet. L. d'Orcy. il Aviation 17: 1110-21 O 13 '24
Dayton air meet shows marked progress in civil and commercial flying. L. S. Gillette. il Automotive Ind 51:636-9 O 9 '24
Dayton air races and governing rules. B. R. Shaw. Aviation 17:986-9, 1048-55 S 15, 29 '24
English light plane meeting at Lympne. diags Aviation 15:622-5 N 19 '23
Events of the New York air races. il Aviation 19:533-46 O 19 '25
First American airplane reliability tour a distinct success. L. S. Gillette. il Automotive Ind 53:618-20 O 8 '25
First impression of the races. A. Klemin. map Aviation 17:1127-8 O 13 '24
Foreign entries in the Schneider cup race. Aviation 16:399 Ap 14 '24
Future of American air racing. E: P. Warner. Aviation 17:1431-2 D 22 '24
Greatest seaplane contest; the Jacques Schneider cup won for second time by United States. il Aviation 19:620-8 N 2 '25
International air races, Mitchel Field, Long Island, N.Y., Oct. 8, 9, 10. Aviation 19:426-32 O 5 '25
International airplane races in Dayton. H. W. Karr. Aviation 16:222-3 Mr 3 '24
Light plane events and entries at Dayton. E. T. Allen. il Aviation 17:1129-31, 1200-1 O 13, 27 '24
Mitchel field race notes. il Aviation 19:360-1 S 21 '25
My first American air meet. C. G. Grey. Aviation 17:1122-3 O 13 '24
National air congress at Wichita. L. D'Orcy. il Aviation 17:1194-8 O 27 '24
National guard air meet at New Dorp, S.I. map Aviation 16:670 Je 23 '24
National guard cross country meet. W. D. Tipton. Aviation 18:668 Je 15 '25
Navy prepares for Pulitzer and Schneider cups. il Aviation 19:213 Ag 24 '25
Navy sets 13 new records at Baltimore. il Aviation 17:1218-20 N 3 '24
Planning the 1924 International air races. H. W. Karr. Aviation 16:58 Ja 21 '24
Plans for Schneider cup race. il Aviation 17: 809 Jl 28 '24
Regulations for the National air races. Aviation 19:179-82 Ag 17 '25
Reliability demonstrated by Ford tour. il Aviation 19:481-5, 550-1 O 12-19 '25
Reliable reliability tour story. C. Caldwell. il Aviation 19:487-90 O 12 '25
Results of the German cross-country race. il map Aviation 19:148-9 Ag 10 '25
Schneider cup seaplane race. il Aviation 19: 547-9 O 19 '25
Score tables of the Dayton air races. Aviation 17:1161-4 O 20 '24
Start of the Ford reliability tour. W. L. Le Page. il Aviation 19:423-5 O 5 '25
Story of the Miami air races. B. R. Shaw. il Aviation 16:336-8 Mr 31 '24
Technical features of the International air races, Dayton, Ohio, Oct. 2-4, 1924. Aviation 16:262-4 Mr 10 '24
Tour de France des avionnettes. il Aviation 17:993-4 S 15 '24
Tulsa air meet. il Aviation 19:388 S 28 '25
What the 1925 Pulitzer air meet revealed. L. S. Gillette. il Automotive Ind 53:698-702 O 22 '25
With the men who fly. A. Klemin. il Sci Am 130:26-7+ Ja '24

AIRPLANE stability and stabilizers
Complete study of the longitudinal oscillation of a VE-7 airplane. F. H. Norton and W. G. Brown. il U S Nat Advisory Com for Aeronautics 1923:129-31 '24
Damping coefficients due to tail surfaces in aircraft. L. Chu and E: P. Warner. U S Nat Advisory Com for Aeronautics 1922: 111-24 '23
Dynamic stability as affected by the longitudinal moment of inertia. E. B. Wilson. U S Nat Advisory Com for Aeronautics 1923:253-8 '24
Effect of airfoil thickness and plan form on lateral control. H. I. Hoot. il diags U S Nat Advisory Com for Aeronautics 1923: 219-27 '24
Measurement of the damping in roll on a JN4h in flight. E. H. Norton. il U S Nat Advisory Com for Aeronautics 1923:201-4 '24
New automatic stabilizer. Aviation 18:20 Ja 5 '25
Pressure distribution over the horizontal tail surfaces of an airplane. F. H. Norton and W. G. Brown. il diags U S Nat Advisory Com for Aeronautics 1922:411-38 '23
Small angular oscillations of airplanes in steady flight. F. H. Norton. il U S Nat Advisory Com for Aeronautics 1923:283-8 '24
Stability and controllability of airplanes. B. V. Korvin-Kroukovsky. Aviation 18:266-9, 296-7, 320-2, 347-8, 380-1, 411-12, 436-8, 462-3, 488-90, 521-2, 545-6, 574-5 Mr 9-My 25 '25
Study of longitudinal dynamic stability in flight. F. H. Norton. diags U S Nat Advisory Com for Aeronautics 1923:231-7 '24

AIRPLANE struts
Point drag and total drag of navy struts no. 1 modified. A. F. Zahm, R. H. Smith and G. C. Hill. diags U S Nat Advisory Com for Aeronautics 1922:125-39 '23

AIRPLANE wings
A4 light plane. Aviation 17:726 Jl 7 '24
Aerodynamic characteristics of airfoils. charts U S Nat Advisory Com for Aeronautics 1923:397-438 '24
Aerodynamic properties of thick airfoils. F. H. Norton and D. L. Bacon. U S Nat Advisory Com for Aeronautics 1922:519-33 '23
Analysis of stresses in German airplanes. W: Hoff. il diags U S Nat Advisory Com for Aeronautics 1922:263-316 [bibliog. p. 315-16] '23
D.H. automatic camber gear. Aviation 16:617 Je 9 '24
Deflection of beams with special reference to shear deformations. J. A. Newlin and G. W. Trayer. il diags U S Nat Advisory Com for Aeronautics 1923:357-73 '24
Direct solution of airplane spar design. I. H. Driggs. diags Aviation 19:34-6 Jl 13 '25
Distribution of lift over wing tips and ailerons. D: L. Bacon. il diags U S Nat Advisory Com for Aeronautics 1923:105-26 [bibliog. p. 121] '24
Form factors of beams subjected to transverse loading only. J. A. Newlin and G. W. Trayer. il diags U S Nat Advisory Com for Aeronautics 1923:377-93 '24
Further notes on the design of wing spar sections. E: P. Warner. Aviation 16:358-60 Ap 7 '24
General theory of thin wing sections. M. M. Munk. bibliog U S Nat Advisory Com for Aeronautics 1922:243-61 '23
Interesting new Glenn Martin wings. L. C. Milburn. Aviation 16:8-9 Ja 7 '24
Lift and drag effects of wing-tip rake. A. F. Zahm, R. M. Bear and G. C. Hill. U S Nat Advisory Com for Aeronautics 1922: 157-65 '23
Pressure distribution over thick airfoils—model tests. F. H. Norton and D. L. Bacon. il diags U S Nat Advisory Com for Aeronautics 1922:449-71 '23

See also Airplane fabric

Testing
Appareil pour la vérification rapide de la résistance des voilures d'avions. diags Génie Civil 86:635-6 Je 27 '25
Effect of airfoil thickness and plan form on lateral control. H. I. Hoot. il diags U S Nat Advisory Com for Aeronautics 1923: 219-27 '24

AIRPLANES
Advent of the big air liner; the air transport situation in France reviewed on the spot. L. d'Orcy. il Aviation 18:408-10 Ap 13 '25
Aeronautics at the British Empire exhibition. il Engineering 117:550-3, pl 51-2 Ap 25 '24

AIRPLANES—*Continued*
Aeronautics in 1923. il (supp) Engineer 137: 22-4, 36-8 Ja 4-11 '24
Aeronautics in 1924. il (supp) diags Engineer 139:18-22 Ja 2 '25
Air liners at the Paris aeronautic salon; three Latecoere planes compared and Dewoitine D14 described. diags Aviation 18:158-9 F 9 '25
Airplane and archæology. Sci Am 130:282 Ap '24
Airplane design and construction; abstracts of papers at S.A.E. aeronautic meeting. Soc Auto Eng J 17:419-20 N '25; Automotive Ind 53:660-4 O 15 '25
American amphibian. il Sci Am 132:269 Ap '25
L'avion utilisé par l'aviateur Pelletier d'Oisy dans son raid Paris-Changhaï. Génie Civil 84:551-2 Je 7 '24
Catron-Fisk "Constance" touring plane. G. B. Harrison. il Aviation 17:1402 D 15 '24
C.D. air express. il Aviation 19:503-4 O 12 '25
Circulation theory of aeroplane lift. H. Jeffreys. Philos Mag 6th ser 50:815-19 O '25
Commercial possibilities of the airplane. A. Black and D. R. Black. Mech Eng 46:133-7; Discussion. 137 Mr '24
Curtiss building new commercial airplane; the Lark. il Aviation 18:693 Je 22 '25
Development of high-speed aircraft. R. Mayo. il Roy Aeronautical Soc J 28:158-82; Discussion. 183-8 Mr '24
Development of the aerial ambulance. Aviation 18:48 Ja 12 '25
Douglas world cruiser described. il Aviation 16:205 F 25 '24
Eaglerock 3 passenger touring airplane. il Aviation 19:496 O 12 '25
Elements of the Lanchester-Prandtl theory of aeroplane lift and drag. il diags Engineering 117:1-3, 35-7, 100-2, 169-71, 258-60 Ja 4-11, 25, F 8, 29 '24; Discussion. A. R. Low. 117:313 Mr 7 '24
Engineer's view of the races. E: P. Warner. il Aviation 17:1124-6 O 13 '24
Evolution of the modern racing airplane. W. L. Gilmore. Soc Auto Eng J 17:476-8+ N '25
Die flugzeuge auf der neunten Pariser luftfahrt-ausstellung vom 5. bis 21. Dezember 1924. F. Gosslau. il diags Zeit Ver Deutsch Ing 69:425-32 Ap 4 '25
Focke-Wulf cabin plane. il diag Aviation 17: 1371 D 8 '24
Fokker C4 commercial airplane. il Aviation 16:310 Mr 24 '24
Fokker FVIIA passenger transport. il Aviation 19:441-2 O 5 '25
France develops multi-motored transport planes. L. D'Orcy. il diags Aviation 16:60-4 Ja 21 '24
France regains world maximum speed record; pilot Bonnet on Ferbois monoplane makes 278.38 mi.-hr. il diags Aviation 17:1426-7 D 22 '24
Glenn L. Martin model 70 commercial plane. il Aviation 17:835-6 Ag 4 '24
High speed airplane. H. C. Richardson. Metal Ind 22:445 N '24
Huff-Daland Petrel 4 and TW5 airplanes. il Aviation 16:614-15 Je 9 '24
Installing the power plant. P. Blanchet. il Sci Am 133:341-2 N '25
Ireland comet. il Aviation 19:497 O 12 '25
Metals used in world cruiser airplanes. J. B. Johnson. il Iron Age 114:994-5 O 16 '24
Monoplane theory. N. K. Bose. Philos Mag 6th ser 48:113-25 Jl '24
Montee 4 passenger monoplane. il Aviation 19:550-1 O 19 '25
La IX[e] exposition internationale de l'aéronautique (Paris, 5-21 décembre 1924). A. Lesage. il diags Génie Civil 85:537-48, 571-2, pl 5 D 13-20 '24
New English passenger machine, the DH54. il diags Aviation 19:279 S 7 '25
New heavy-duty government planes carry nine passengers. A. F. Denham. il Automotive Ind 53:418-19 S 10 '25
New Lincoln standard sport plane. il Aviation 17:1433 D 22 '24
New metal airplane developed. Am Mach 62: 256e F 5 '25
New Travel Air commercial plane. il Aviation 18:406 Ap 13 '25
1924 Swallow commercial three-seater. il Aviation 16:179 F 18 '24
OX5 Humming Bird. il Aviation 19:642 N 2 '25
Pressure distribution over the horizontal tail surfaces of an airplane. F. H. Norton and W. G. Brown. il diags U S Nat Advisory Com for Aeronautics 1922:411-38 '23
Pressure distribution over the rudder and fin of an airplane in flight. F. H. Norton and W. G. Brown. diags U S Nat Advisory Com for Aeronautics 1922:439-48 '23
Products of the Sikorsky manufacturing corporation. il Aviation 19:439-40 O 5 '25
Safety is outstanding feature of Sikorsky plane design. L. S. Gillette. il Automotive Ind 52:616-18 Ap 2 '25
Side lights on the Paris to Tokyo flight; constructional details of the Breguet 19A2. il diags Aviation 17:774-6 Jl 21 '24
Sikorsky S29A twin-engined transport plane. A. Klemin. il Aviation 18:182-4 F 16 '25
Simple aerodynamics and the airplane. C: N. Monteith. 299p [bibliog. p. 298-9] U.S. Air service, War dept., Washington '24
Some technical aspects of the planes in the Ford tour. il Aviation 19:491-3 O 12 '25
Stout air Pullman. il Aviation 16:533-4 My 19 '24
Stout all-metal monoplane is designed specially for commercial use. J. E: Schipper. il diag plan Automotive Ind 50:959-61 My 1 '24
Study of airplane maneuvers with special reference to angular velocities. H. J. E. Reid. il U S Nat Advisory Com for Aeronautics 1922:561-70 '23
Swanson-Freeman SS4 two seater. il Aviation 16:93-4 Ja 28 '24
Technical development of the airplane. J. D. North. Aviation 15:676-8 D 3 '23; Same cond. Engineer 136:5-6 Jl 6 '23; Same cond. Engineering 116:8-9 Jl 6 '23
Three new German commercial airplanes. diags Aviation 16:155 F 11 '24
Vast strides made in development of commercial aircraft. L. S. Gillette. il Automotive Ind 52:1092-8 Je 25 '25
Vertical, longitudinal, and lateral accelerations experienced by an S.E.5A. airplane while maneuvering. F. H. Norton and T. Carroll. il U S Nat Advisory Com for Aeronautics 1923:135-7 '24
Waco model 9. il Aviation 18:542-3 My 18 '25
Winning French machine carries 12 passengers. il Automotive Ind 51:656 O 9 '24
Woodson Foto. il Aviation 19:41 Jl 13 '25
Wright-Bellanca monoplane. il Aviation 19: 634-5 N 2 '25
Wright brothers' aeroplane. O. Wright and W. Wright. il diags Aviation 15:732-7 D 17 '23

See also Aeronautics; Aeronautics, Commercial; Airplane engines; Airplane propellers; Airplane stability and stabilizers; Airships; Aviation; Cycleplane; Fish patrol, Aerial; Flying boats; Forest fire patrol, Aerial; Gliders; Hangars; Hydroplanes; Langley flying machine; Seaplanes; Torpedoplanes

Control

Aircraft leader cable systems; the electrical steering of aeroplanes. W: Loth. Elec R (Lond) 93:951 D 21 '23
Control in the light plane. E: P. Warner. Aviation 17:916 Ag 25 '24
Controllability and maneuverability of airplanes. F. H. Norton and W. G. Brown. il diags U S Nat Advisory Com for Aeronautics 1922:535-52 '23
English stalling demonstration. il Aviation 18:577 My 25 '25
Pilotless airplanes; abstract. E. Marcotte. Mech Eng 46:898 D '24
Stability and controllability of airplanes. B. V. Korvin-Kroukovsky. Aviation 18: 266-9, 296-7, 320-2, 347-8, 380-1, 411-12, 436-8, 462-3, 488-90, 521-2, 545-6, 574-5 Mr 9-My 25 '25

See also Airplane stability and stabilizers

AIRPLANES—*Continued*

Design

Analysis of free flight propeller tests and its application to design. M. M. Munk. U S Nat Advisory Com for Aeronautics 1923: 441-50 '24

Betrachtungen über den flugzeugbau. O. Mader. il diags Zeit Ver Deutsch Ing 68: 1041-6 O 4 '24

Damping coefficients due to tail surfaces in aircraft. L. Chu and E: P. Warner. U S Nat Advisory Com for Aeronautics 1922:111-24 '23

Deflection of beams with special reference to shear deformations. J. A. Newlin and G. W. Trayer. il diags U S Nat Advisory Com for Aeronautics 1923:357-73 '24

Direct solution of airplane spar design. I. H. Driggs. diags Aviation 19:34-6 Jl 13 '25

Europe continues to show great diversity in airplane design. L. S. Gillette. Automotive Ind 52:510 Mr 12 '25

Form factors of beams subjected to transverse loading only. J. A. Newlin and G. W. Trayer. il diags U S Nat Advisory Com for Aeronautics 1923:377-93 '24

General biplane theory. M. M. Munk. bibliog U S Nat Advisory Com for Aeronautics 1922:473-517 '23

Low-resistance airplane. J. B. Walker. il diags Sci Am 132:380-1 Je '25

Luftfahrt und technik; kraftfahrzeugbau. E. Everling. diags Zeit Ver Deutsch Ing 68: 491-2 My 17 '24

Magnus effect in aviation. diags Sci Am 132: 343+ My '25

Our place in aviation. L. T. Jones. Aviation 17:1454-8 D 29 '24

Point drag and total drag of navy struts no. 1 modified. A. F. Zahm, R. H. Smith and G. C. Hill. diags U S Nat Advisory Com for Aeronautics 1922:125-39 '23

Power installations on aircraft. A. H. Tiltman. il diags Automobile Eng 15:286-91 S '25

Relation between aeronautic research and aircraft design. J. S. Ames. il diags U S Nat Advisory Com for Aeronautics 1923: 59-71 '24

Relative effect of dihedral and sweepback. M. M. Munk. il Aviation 16:178 F 18 '24

Some technical aspects in commercial design at the air meet. B. V. Korvin-Kroukovsky. Aviation 19:591+ O 26 '25

Strength of steel tubing under combined column and transverse loading, including tests of columns and beams. T. W. Greene. il U S Bur Stand Tech Pa 258:243-76 '24

Tail plane. M. M. Munk. U S Nat Advisory Com for Aeronautics 1922:53-87 '23

Les théories de l'aérodynamique moderne sur l'effet Magnus et les voiles tournantes Flettner. G. Delanghe. diags Génie Civil 86:453-7 My 9 '25

Work of the aeronautical research committee's panel on scale effect. W. S. Farren. Roy Aeronautical Soc J 28:526-44; Discussion. 544-50 Ag '24

See also Airplane propellers; Airplane wings; Airplanes—Control

Equipment

See also Aeronautic instruments; Compass; Oxygen apparatus; Radio telephone in aviation

Fuselage

See Airplanes—Manufacture

Gearing

Allison four-engine transmission. il Aviation 19:640 N 2 '25

Effect of variable gearing on aeroplane performance. A. D. Betts. Roy Aeronautical Soc J 27:557-60 N '23

Savage-Bramson anti-stall gear in practice. Mech Eng 47:849 O '25

Landing

Problems of safe landing for airplanes. W. L. Le Page. Aviation 16:588-90 Je 2 '24

Selecting a landing field in case of trouble. H. J. Houghland. Aviation 15:679-80 D 3 '23

Study of taking off and landing an airplane. T. Carroll. il U S Nat Advisory Com for Aeronautics 1922:553-60 '23

See also Aviation landing stations

Landing gear

Gibbons landing and launching device. il Aviation 16:308-9 Mr 24 '24

Landing gear. Aviation 17:810-11 Jl 28 '24

Landing gear for the round-the-world planes. il Sci Am 131:171 S '24

Magni air resistance brake. il diags Aviation 19:494 O 12 '25

Launching

Catapulting and receiving. il Sci Am 132:123 F '25

Gibbons landing and launching device. il Aviation 16:308-9 Mr 24 '24

Launching of aircraft from ships. L. J. Wackett. Roy Aeronautical Soc J 27:553-6 N '23

Study of taking off and landing an airplane. T. Carroll. il U S Nat Advisory Com for Aeronautics 1922:553-60 '23

Lighting

Night-flying equipment and operation. H. R. Harris and D. L. Bruner. il Mech Eng 46: 274-8 My '24

Manufacture

Airplane building in quantity. J: Younger. il Am Mach 63:477-9 S 17 '25

All-metal airplanes; abstracts. W: B. Stout. Am Mach 63:440-1 S 10 '25; Mech Eng 47: 946-7 N '25

Building government airplanes. F. G. Steinebach. il Iron Tr R 74:665-70+ Mr 6 '24

Data on aluminum alloys for airplane structural work. F. H. Colvin. Am Mach 60:235-8 F 14 '24

Details of French metal construction. diags Aviation 18:187 F 16 '25

Fatigue of metals in airplane parts. R. R. Voorhees. Iron Age 115:1498 My 21 '25

Fittings and other structural airplane parts. P. Eydam. diags Aviation 17:804-6 Jl 28 '24

Fundamental requirements for commercial aviation. W. B. Stout. Soc Auto Eng J 17: 455-8 N '25

Interchangeable manufacture as applied to airplane construction. W: B. Stout. il diag Am Mach 62:767-70 My 14 '25

Leichtbau. A. Baumann. Zeit Ver Deutsch Ing 68:551-5 My 31 '24

Man hours in experimental aircraft production. il Aviation 17:1365 D 8 '24

Materials in aircraft construction. L. Aitchison. Roy Aeronautical Soc J 28:234-48 Ap '24; Same abr. Engineering 117:89-91 Ja 18 '24; Discussion. Roy Aeronautical Soc J 28: 248-59 Ap '24

Metal airplanes. W. B. Stout. il Soc Auto Eng J 16:209-14 F '25; Excerpts. Automotive Ind 52:186-7 Ja 29 '25

Metals used in airplane construction. F. O. Carroll. il Iron Age 113:1203-6 Ap 24 '24

New metal airplane for mail service. F. H. Colvin. il Am Mach 60:121-4 Ja 24 '24

Die nichteisenmetalle unter besonderer berücksichtigung der luftfahrzeuge. E. H. Schulz. diags Zeit Ver Deutsch Ing 68:545-50 My 31 '24

Plywood and metal-faced plywood. A. Elmendorf. Aviation 19:215 Ag 24 '25

Production airplanes of metal. E. B. Carns. il diags Mech Eng 46:733-8 pt 2 N '24; Discussion. 47:269-70 Ap '25

Question of duralumin welding. Aviation 18: 439 Ap 20 '25

Reliable formulae for estimating airplane performance and the effects of changes in weight, wing area, or power. W. S. Diehl. U S Nat Advisory Com for Aeronautics 1923:261-80 '24; Excerpt. Aviation 16:127 F 4 '24

Report of committee on materials for aircraft. U S Nat Advisory Com for Aeronautics 1922:31-5 '23

AIRPLANES—Manufacture—*Continued*
Rubber in modern airplanes. il diag India Rubber W 70:718-19 Ag '24
Some aspects of airplane inspection. J. J. Feeley. il Soc Auto Eng J 17:441-7 N '25; Abstract. Am Mach 63:524f-g S 24 '25
Some materials in aircraft construction. J: D. North. Roy Aeronautical Soc J 28:226-33 Ap '24; Same abr. Engineering 117:123-4 Ja 25 '24; Discussion. Roy Aeronautical Soc J 28: 248-59 Ap '24
Steels used in aero work. W. H. Hatfield. il diags Roy Aeronautical Soc J 29:469-511; Discussion. 511-34 O '25
Welded steel tubing in fuselage construction. A. H. G. Fokker. il Aviation 16:642-3 Je 16 '24
Welding world history; tanks and fuselage of world-flight airplanes welded. il Iron Age 113:1729 Je 12 '24
Will the future airplane be of metal? C. McDarment. il Iron Age 15:19-23 Ja 1 '25

Model testing

Aeronautical research. il Can Eng 46:255-6 F 19 '24
Case for the revival of the water channel. N. S. Norway. Roy Aeronautical Soc J 28:647-52 N '24
Pressure distribution over thick airfoils—model tests. F. H. Norton and D. L. Bacon. il diags U S Nat Advisory Com for Aeronautics 1922:449-71 '23
Some aspects of the comparison of model and full scale tests. D. W. Taylor. Roy Aeronautical Soc J 29:300-32 Jl '25; Abstract. Engineering 119:581-3 My 8 '25
Turbine drive for propeller models. L. H. Crook. il diags J Fr Inst 198:85-91 Jl '24
Work of the aeronautical research committee's panel on scale effect. W. S. Farren. Roy Aeronautical Soc J 28:526-44; Discussion. 544-50 Ag '24

Performance

Effect of variable gearing on aeroplane performance. A. D. Betts. Roy Aeronautical Soc J 27:557-60 N '23

Range

Limiting range of airplanes. E: P. Warner. Aviation 18:570-2 My 25 '25

See also Aviation—Altitude records

Refueling

Contact and refueling now accomplished in the air. H. H. Arnold. il Sci Am 133:90-1 Ag '25
Practical value of refueling airplanes in flight. H. H. Arnold. il Aviation 17:750-1 Jl 14 '24

Safety devices and measures

Anti-stall safety device. diags Aviation 19: 495-6 O 12 '25
New Minimax fire extinguisher. diag Aviation 17:834 Ag 4 '24

Specifications

American airplane specifications; tabulation. Automotive Ind 50:458-9; 52:442-3 F 21 '24, F 26 '25
Foreign airplane specifications; tabulation. Automotive Ind 50:460-2; 52:511-13 F 21 '24, Mr 12 '25

Speed

Attainment of high speeds. Aviation 19:633 N 2 '25

Standards

Rules for airplane structures. Aviation 18:8 Ja 5 '25
S.A.E. aeronautic division report; airplane bolts and nuts. Soc Auto Eng J 14:630-1 Je '24

Tanks

Tanks for airplanes fabricated from sheet aluminum by welding. D. C. McGiehan. Am Mach 60:406 Mr 13 '24

Testing

Flight testing of new airplanes. E. T. Allen. Aviation 17:1252-3 N 10 '24
Flight tests of the new Curtiss racer. Aviation 19:383+ S 28 '25
Machine for testing airplane ribs. il Sci Am 130:395 Je '24
Royal aero club light aeroplane competitions. J. S. Buchanan. Roy Aeronautical Soc J 28:676-90; Discussion. 691-8 D '24
Some aspects of the comparison of model and full scale tests. D. W. Taylor. Roy Aeronautical Soc J 29:300-32 Jl '25; Abstract. Engineering 119:581-3 My 8 '25
Successful tests of the Loening amphibian. il Aviation 18:155 F 9 '25

See also Aerodynamic laboratories; Airplane engines—Testing; Airplanes—Model testing; Wind tunnels

AIRPLANES, Light

A4, a very light plane. Aviation 16:646, 673-4, 701-2; 17:726 Je 16-Jl 7 '24
Avia light plane. il diags Aviation 17:1059 S 29 '24
Bristol Brownie light plane. il diags Aviation 17:1434 D 22 '24
Caspar C17 two-seater light plane. il diags Aviation 18:130-1 F 2 '25
Daimler L15 light plane. il Aviation 16:701 Je 30 '24
De Haviland builds baby plane, two-seater, weighing only 770 pounds. L. S. Gillette. il Automotive Ind 52:830-1 My 7 '25
DeHaviland Moth. il Aviation 18:523 My 11 '25
Design of some light planes. Aviation 17:1309 N 24 '24
Displacement limits for light plane engines. G. D. Angle. Aviation 18:18 Ja 5 '25
Driggs-Johnson model DJ1 light plane. il Aviation 17:1274-5 N 17 '24
English light plane meeting. il diags Aviation 19:282-4 S 7 '25
Flivvers of the air that approach 100 miles per gallon. il Sci Am 130:99 F '24
Gliders and light planes. A. Ogilvie. Roy Aeronautical Soc J 27:524-8; Discussion. 528-34 N '23
Das leichtflugzeug. W. v Langsdorff. H. Berhold Verlag, Frankfurt '24; Review. Aviation 17:1463-4 D 29 '24
Light aeroplane engine development. L. F. R. Fell. diags Roy Aeronautical Soc J 29:168-77; Discussion. 177-88 Ap '25
Light aeroplane; some lessons of the recent trials at Lympne, 1924. A. H. Tiltman. il diags Automobile Eng 14:393-7 D '24
Light airplane and low-powered flying. W. L. LePage. Soc Auto Eng J 17:437-40 N '25
Light airplane development. Aviation 16:360-1 Ap 7 '24
Light plane progress and the engine question. G. D. Angle. Aviation 17:1304 N 24 '24
Light planes and gliders; edited by E. T. Allen. il Aviation 18:163, 194, 218-19, 352-3; 19:99, 215, 556 F 9-23, Mr 30, Jl 27, Ag 24, O 19 '25
Lympne trials of two-seater light aeroplanes. il diags Engineering 118:525-6 O 10 '24
Notes on the flying qualities of the light aeroplane compared with larger types. R. A. de H. Haig. Roy Aeronautical Soc J 29: 459-64 S '25
Pander light plane. diags Aviation 19:70 Jl 20 '25
Royal aero club light aeroplane competitions. J. S. Buchanan. Roy Aeronautical Soc J 28:676-90; Discussion. 691-8 D '24
Some considerations in the design of a light aeroplane. N. Comper. Roy Aeronautical Soc J 29:240-4 My '25
Some light planes at the air races. il Aviation 19:594 O 26 '25
Two seater light planes at the Lympne competition. Aviation 17:1281-2 N 17 '24
Two types of the light plane. E. T. Allen. il Aviation 16:483-4, 512 My 5-12 '24
Unreliable engines check light plane development. D. F. Cashman. Aviation 19:685 N 9 '25

AIRPLANES, Light—*Continued*
Use of the light planes in aeronautical research. W. L. Lepage. Aviation 17:1169-70 O 20 '24
What is a light plane? il Aviation 17:1406 D 15 '24

Specifications

Light airplane specifications; tabulation. Automotive Ind 52:424 F 26 '25

AIRPLANES, Mail
Aerial mercury air mail plane. N. Meadowcroft. il Aviation 18:342-3 Mr 30 '25
Air mail invites bids for new mail planes. Aviation 16:422 Ap 21 '24
Air mail planes to have radio telephone. il Aviation 15:704-5 D 10 '23
Boeing mail plane. il Aviation 19:321 S 14 '25
Curtiss carrier pigeon. il Aviation 18:318-19 Mr 23 '25
Douglas air mail plane. il Aviation 19:210-11 Ag 24 '25
Elias mailplane. il Aviation 18:486-7 My 4 '25
Latécoère LAT16 mail plane. Aviation 17: 1307 N 24 '24
Mercury, Jr. il Aviation 19:682 N 9 '25
New mail planes. il Sci Am 132:342-3 My '25
New metal airplane for mail service. F. H. Colvin. il Am Mach 60:121-4 Ja 24 '24
New U.S. mail planes convertible for passenger service. L. S. Gillette. il Automotive Ind 52:906-9 My 21 '25
Regulations for air mail routes. Aviation 18: 458-60 Ap 27 '25

AIRPLANES, Man-propelled. See Cycleplane

AIRPLANES, Military
Air service asks bids for heavy bombers. Aviation 18:126 F 2 '25
Air service asks for new observation planes. Aviation 16:254-6 Mr 10 '24
Les avions de chasse métalliques récents; le monoplan Wibault, type 7 C. 1. C: Dantin. il diags Génie Civil 86:185-9 F 21 '25
Bid for night observation airplane. Aviation 18:383 Ap 6 '25
Bristol Bloodhound biplane. il Engineer 138: 39 Jl 11 '24; Automobile Eng 14:232 Ag '24
Builders of the Gloster-Napier III. Aviation 19:583 O 26 '25
Curtiss PW8 pursuit plane described. il Aviation 17:746-8 Jl 14 '24
Douglas C1 transport plane. il Aviation 18: 606-7 Je 1 '25
Four motored Caproni bomber. il diags Aviation 17:1403 D 15 '24
Giant among airplanes; Barling bomber. il Sci Am 130:107 F '24
Huff Daland LB1 bomber. il Aviation 19:632 N 2 '25
New French deck fliers. Aviation 19:8 Jl 6 '25
New planes for Pulitzer trophy race indicate America's strength in the air. C. M. Keys. il Aviation 19:433-6 O 5 '25
Notes on the design of a corps observation plane. H. F. Marshall. il Aviation 16: 561-3 My 26 '24
Passing of the DeHavilands. Aviation 18: 730-1 Je 29 '25
Protection of naval aeroplanes. G. Magaldi. Engineering 118:418-19 S 19 '24
Recent French pursuit airplanes. L. D'Orcy. il Aviation 18:12-15, 42-5 Ja 5-12 '25
Scheme of aerial bombardment; use of giant airplanes as airplane carriers. R. F. Hall. il diag Aviation 18:467 Ap 27 '25
Schneider bombardment escort plane. diags Aviation 18:211-12 F 23 '25
Siskin II aeroplane and Jaguar aero engine. diags Engineering 118:864, 870-1, pl 83 D 26 '24
Success of Boeing naval training plane. il Aviation 16:261 Mr 10 '24

See also Torpedoplanes

AIRPLANES in advertising

See also Skywriting

AIRPLANES in agriculture
Aeroplane a success as a boll-weevil duster. Manuf Rec 86:100 S 4 '24
Airplane war against boll weevil and malarial mosquitoes. W. M. Steele. il Manuf Rec 87: 81-3 F 19 '25
Commercial crop dusting; details of the operations of the Huff Daland dusters. R. W: Riis. il Aviation 18:573 My 25 '25
Crop protection by airplane duster. C. W. Berl. il Manuf Rec 88:92-3 Jl 9 '25
Killing boll weevils and mosquitoes by airplane activities. J. E. Clayton. Manuf Rec 86:89-90 D 4 '24
Success in aerial boll weevil campaign. Aviation 16:92 Ja 28 '24; Textile World 64:3897+ D 29 '23

AIRPLANES in engineering
Aeroplane in engineering. L: D. Huntoon. Eng & Contr (Ry) 61:400-3 F 20 '24
Flugzeuge im dienste der elektrizitätswerke. E. v. Knüpffer. il Elektrotech Zeit 46:267-8 F 19 '25

AIRPLANES in forestry. See Forest fire patrol, Aerial

AIRPLANES in mining
Mine rescue experiments with airplanes. il Aviation 16:12-13 Ja 7 '24
Transporting ore by airplane. A. Van Muffling. il Eng & Min J 116:797-802 N 10 '23

AIRSHIP engines
Maybach engine made for Zeppelin. Automotive Ind 51:789 O 30 '24
Report of the committee on power plants for aircraft. U S Nat Advisory Com for Aeronautics 1922:22-30 '23

Exhaust

Heat transfer in the condensation of water from engine exhaust gas. R. F. Kohr and L. Butler. il diags Ind & Eng Chem 16:885-9 S '24
Uses of water recovery. H. F. Parker. il Aviation 19:6-7 Jl 6 '25

Gearing

Clutches and transmissions for the RS-1. il Aviation 19:12-13 Jl 6 '25

Vibration

Vibration in engine test gear. J. Morris. diag Engineer 139:484-5 My 1 '25

AIRSHIPS
Airship development. Engineering 117:404-5 Mr 28 '24
Airships. G: Cayley. Roy Aeronautical Soc J 29:76-92 F '25
Can we prevent aerial holocausts? A. Klemin. il map Sci Am 132:94-6 F '25
Commercial aviation offers a new field for the skill and inventive genius developed in shipping. C. A. McAllister. Marine Eng 30:69-70 F '25
Description of the Goodyear Pilgrim. H. T. Kraft. diag Aviation 19:242-3 Ag 31 '25
Detailed consideration of the effect of meteorological conditions on airships. G. H. Scott and V. C. Richmond. Roy Aeronautical Soc J 28:189-221 Mr '24
Development of the airship. C. D. Burney. Engineer 137:408 Ap 18 '24; Abstract. Marine Eng 29:398 Jl '24; Discussion. Engineer 137: 408-9 Ap 18 '24; Engineering 117:487-8 Ap 18 '24
For sale: speed—who will buy? C. A. Tinker. il diags Nation's Business 13:13-15 Ja '25
Fünfundzwanzig jahre Zeppelin-luftschiffbau. L. Dürr. il diags Zeit Ver Deutsch Ing 68: 529-38, pl 1 My 31 '24
Goodyear co. acquires Zeppelin airship patents. Aviation 15:599-600 N 12 '23
Les grand dirigeables dans la paix et dans la guerre. J: Du Plessis. Plon-Nourrit and co., Paris '25
Hooking an airplane to an airship; experiments show the practicability of both landing at and taking off an airship. Aviation 18:378-9 Ap 6 '25
Inaugural flight of Goodyear Pilgrim. il Aviation 19:214 Ag 24 '25
Super airships. Sci Am 132:125+ F '25

See also Aeronautics; Airship engines; Aviation; Hangars

AIRSHIPS—*Continued*

Anchorage

Analysis of the deformation of the mooring spindle of the Shenandoah. L. B. Tuckerman and C. S. Aitchison. il U S Bur Stand Tech Pa 270:609-18 '25

Ford mooring mast. Aviation 19:8 Jl 6 '25

Mooring mast is the thing. J. B. Walker. il diags Sci Am 130:221+ Ap '24

Nobile mechanical landing system. U. Nobile. il diags Aviation 19:63-5 Jl 20 '25

Design

Improvements in commercial airship design. F. L. M. Boothby. Aviation 18:216-17 F 23 '25

Recent progress in Italian airship construction. U. Nobile. il Aviation 16:118-22 F 4 '24

Relation between aeronautic research and aircraft design. J. S. Ames. il diags U S Nat Advisory Com for Aeronautics 1923:59-71 '24

Equilibrium

Heat transfer in the condensation of water from engine exhaust gas. R. F. Kohr and L. Butler. il diags Ind & Eng Chem 16: 885-9 S '24

Recovering the weight from burnt fuel. il Sci Am 130:329 My '24

Uses of water recovery. H. F. Parker. il Aviation 19:6-7 Jl 6 '25

Water ballast recovery for airships. I. F. Fravel. il Aviation 15:625-6 N 19 '23

Water recovery for airships. H. F. Parker. Soc Auto Eng J 15:532-5 D '24

Equipment

Rubber equipment of the Shenandoah. diag India Rubber W 73:69-70 N '25

Gas

Hydrogen for polar flight urged. R. Upson. Aviation 16:95-6 Ja 28 '24

See also Helium

Model testing

Aerodynamical characteristics of the airship as deduced from experiments on models, with application to motion in a horizontal plane. R. Jones. bibliog diags Roy Aeronautical Soc J 28:88-150 F '24

Translating stresses into color for visual observation. il Sci Am 130:323 My '24

Mooring

See Airships—Anchorage

Stresses

Drag of C class airship hull with varying length of cylindric midships. A. F. Zahm, R. H. Smith and G. C. Hill. il U S Nat Advisory Com for Aeronautics 1922:141-9 '23

Strength of rigid airships. C. P. Burgess, J. C. Hunsaker and S. Truscott. [bibliog p. 422-7] il diags Roy Aeronautical Soc J 28:327-448 Je '24

Tables, calculations, etc.

Airship slide rule. E. R. Weaver and S. F. Pickering. il U S Nat Advisory Com for Aeronautics 1923:93-102 '24

Inertia coefficients of an airship in a frictionless fluid. H. Bateman. U S Nat Advisory Com for Aeronautics 1923:141-54 '24

AIRSHIPS, Cycle

Man-driven dirigible. U. Nobile. Aviation 17: 934-6 S 1 '24

AIRSHIPS, Rigid

Accident to the R 33. Engineering 119:514-15 Ap 24 '25; Discussion. 119:574, 606 My 8-15 '25

Aerodynamic forces on airship hulls. M. M. Munk. U S Nat Advisory Com for Aeronautics 1923:453-68 '24

Airship to Bermuda. il Sci Am 132:344+ My '25

Analysis of the deformation of the mooring spindle of the Shenandoah. L. B. Tuckerman and C. S. Aitchison. il U S Bur Stand Tech Pa 270:609-18 '25

Arctic exploration by aircraft. il map Sci Am 130:152-3 Mr '24

Big French airship probably lost in storm. Aviation 16:14-15 Ja 7 '24

Can huge dirigibles supplant our ocean liners? A. Klemin. il diag Sci Am 132:18-21 Ja '25

Le dirigeable Zeppelin L.Z. 126 (Z.R. 3) construit en Allemagne pour les Etats-Unis. F. Loppé. il diags plan Génie Civil 85:305-10, pl 4 O 11 '24

Drag of C class airship hull with varying length of cylindric midships. A. F. Zahm, R. H. Smith and G. C. Hill. il U S Nat Advisory Com for Aeronautics 1922:141-9 '23

England to build steel airship. Aviation 17: 1333 D 1 '24

Experiences of the ZR-3 in crossing the Atlantic ocean and of the Shenandoah in making trip across the American continent. C. E. Rosendahl. Soc Auto Eng J 15:484-6 D '24

Ford to construct new type airship. Automotive Ind 52:287 F 12 '25

Future Leviathans of the skies. A. Klemin. il Sci Am 132:166-8 Mr '25

How the ZR-3 was piloted by radio. H. C. Flemming. il Radio N 6:1134-5+ Ja '25

Hydrogen for polar flight urged. R. Upson. Aviation 16:95-6 Ja 28 '24

Largest and fastest of the Zeppelins; L. Z. 126, new German-built airship for the navy. il diags plan Sci Am 130:238-9 Ap '24

Metal-clad versus fabric-covered rigid airships. R. Upson. il Aviation 15:702-3 D 10 '23; Discussion. 16:95, 147 Ja 28, F 11 '24

Metal-covered airship. Sci Am 132:345+ My '25

Modern Zeppelin airships. Eckener. il Roy Aeronautical Soc J 29:269-89; Discussion. 289-94 Je '25

Our first rigid airship the Shenandoah. il diag Sci Am 130:82-3 F '24

Our second large airship; built as the ZR-3 now the Los Angeles. il Am Mach 62:192-3 Ja 29 '25

Plans for metalclad airships. il Aviation 18: 245 Mr 2 '25

Possibilities of trans-ocean air travel established by flight of the ZR-3. il Automotive Ind 51:720-1 O 23 '24

Preliminary report of special committee on design of airship ZR-1. U S Nat Advisory Com for Aeronautics 1922:35-6 '23

R-33 emulates the Shenandoah. il Aviation 18:464-5 Ap 27 '25

Radio and the giant of the air. W: A. Hurd. il Wireless Age 11:17-21 Mr '24

Rigid airship; a treatise on the design and performance. E. H. Lewitt. 283p Pitman '25

Shenandoah weathers a storm. il Aviation 16: 90-1 Ja 28 '24

Shenandoah's great flight from Lakehurst to Ft. Worth, San Diego, Seattle and return. il Aviation 17:1250-1 N 10 '24

Steel-tube airship. Sci Am 133:274+ O '25

Strength of rigid airships. C. P. Burgess, J. C. Hunsaker and S. Truscott. [bibliog p. 422-7] il diags Roy Aeronautical Soc J 28: 327-448 Je '24

Transatlantic voyage of ZR-III. maps Sci Am 131:115 Ag '24

25 years building Zeppelin airships. Review, by R. Emerson. Aviation 18:162 F 9 '25

United States and rigid airships. Engineer 139:455 Ap 24 '25

U.S. navy plans 6,000,000 cu. ft. airship. Aviation 18:9-11 Ja 5 '25

Wild night on the Shenandoah. il Sci Am 130: 158+ Mr '24

World's largest airship nearing completion; ZR3. il diags Aviation 15:774-6 D 24 '23

Zeppelin passenger airship LZ. 126. il diags plans (supp) Engineer 136:604-5, 616 D 7 '23

Zeppelin ZR-3 makes record flight from Friedrichshafen, Germany, to Lakehurst. N.J. Comm & Fin Chr 119:1810 O 18 '24

AIRSHIPS, Rigid—*Continued*
Das Zeppelinluftschiff; seine entwicklung, tätigkeit, und leistungen. F. Kollmann. 89p M. Krayn, Berlin '24
ZR3 reaches Lakehurst from Germany. il Aviation 17:1190-3 O 27 '24

Design

U.S. navy dirigible Shenandoah destroyed by storm. il diags Eng N 95:437-41 S 10 '25

Failures

Await air disaster investigation. Iron Tr R 77:795-6 S 24 '25
Loss of the Dixmude. Engineering 117:53-4 Ja 11 '24
Shenandoah disaster holds technical lessons for aircraft builders. L. S. Gillette. Automotive Ind 53:404-5 S 10 '25
Shenandoah investigation. Aviation 19:437+ O 5 '25
Tragedy of the Shenandoah. J. B. Walker. il Sci Am 133:301 N '25
Twister wrecks the Shenandoah. il diag Aviation 19:310-14 S 14 '25; Discussion. C. E. Rosendahl. 19:635 N 2 '25
U.S. navy dirigible Shenandoah destroyed by storm. il diags Eng N 95:437-41; Discussion. 415 S 10 '25
Why the Shenandoah failed; possible technical reasons for destruction by elements given by her designers. Aviation 19:346-9 S 21 '25
Wreck of the Shenandoah. Engineering 120: 359-60 S 18 '25

Repair

Repairing the Shenandoah. il Sci Am 131:20 Jl '24

Testing

Photoelastic method applied to rigid-airship research. T: H. Frost. il Soc Auto Eng J 13:497-8 D '23
Rigid airship in relation to full-scale experiment. R. A. Frazer. il diags Roy Aeronautical Soc J 29:404-58 [bibliog. p. 458] S '25

AIRSHIPS, Semi-rigid
Building a semi-rigid airship. J: Younger. il diags Am Mach 61:867-72 D 4 '24
Latest Italian airship, the N2. il Aviation 19: 274-5 S 7 '25
Maiden flight of the airship N-1. il Aviation 16:373 Ap 7 '24
New Italian Mr type airship. il Aviation 17: 913 Ag 25 '24

AISLOMETER
Detecting defective insulators by the aislometer. C. E. Bennett. il diag Elec W 83: 711-15 Ap 12 '24

AKRON, Ohio

Rapid transit

Akron learns its lesson. Aera 12:1545-50 Ap '24
Akron limps without trolleys. J: W. Colton. il Aera 12:1295-1317 Mr '24
Akron votes higher fare. L. St Clair. Aera 13:784+ D '24
Akron's mayor loses; bus franchise voted down. Elec Ry J 63:307, 330-4 F 23-Mr 1 '24
Buses handle Akron's local traffic for twenty-seven days. il maps Bus Transportation 3: 120-5 Mr '24
Details of Akron arbitration. Elec Ry J 66: 334 Ag 29 '25
Goodyear did not oppose Akron railway. Elec Ry J 63:346 Mr 1 '24
New franchise agreement approved at Akron. Elec Ry J 64:817 N 8 '24
Service suspended in Akron. Elec Ry J 63:192, 226, 268 F 2-16 '24
Suspension affects Akron company's income. Elec Ry J 65:675-6 Ap 25 '25

AKRON, Canton & Youngstown railroad
Railroad that holds the pass. H. P. Faxon. Annalist 25:318 Mr 2 '25

ALABAMA

Industries and resources

Alabama manufactures, 1923. Manuf Rec 87: 80 My 28 '25
Northern industrial leaders active in development of Alabama coal and iron lands. R: W. Edmonds. Manuf Rec 85:77-8 Mr 27 '24
State of Alabama. W: W. Brandon. Manuf Rec 86:349-50; Statistics. 354 pt 2 D 11 '24

See also Alabama power company; Coal—Alabama; Coal mines and mining—Alabama; Iron mines and mining—Alabama; Mines and mineral resources—Alabama; Steel industry and trade—Alabama

ALABAMA power company
Alabama power company outstrips all American competitors. Manuf Rec 87:69-71 Je 18 '25
Alabama power company shows amazing growth. il Manuf Rec 86:445-7 pt 2 D 11 '24
Alabama power company wins Forbes public service cup. J. Heywood. il Forbes 16:323-5+ Je 15 '25
Alabama power looks into the future. P. W. Garrett. map Elec W 86:201 Jl 25 '25
Annual report, 1923. Comm & Fin Chr 118: 2568-9 My 24 '24
Annual report for year ended Dec. 31 1924. Comm & Fin Chr 121:322-3 Jl 18 '25
How cheap power builds up a community. J. Heywood. il Forbes 14:230-2+ My 24 '24

ALABAMA. University
Five-year courses at the University of Alabama. G: J. Davis, jr. J Eng Educ 15:214-17 N '24

ALANINE
Deaminization of esters of alanine and of amino-*iso*butyric acid. A. J. Barker and G. S. Skinner. Am Chem Soc J 46:403-14 F '24
Synthesis of β-alanine from ethyl succinylamidoacetate. T. Curtius and W. Hechtenberg. Chem Soc J 124 pt 1:1072-4 N '23

ALASKA
Engineers explore northern Alaska. Eng & Contr (G C) 64:168-9 Jl 15 '25

See also Aeronautics—Alaska; Geology—Alaska; Railroads—Alaska; Roads—Alaska

Commerce

Our trade with Alaska and other outlying districts. Comm M 5:12-13 Ap '24

Economic conditions

Economic progress of Alaska. Comm M 7:27-30 O '25; Same. Econ W n s 30:477-8 O 3 '25

Industries and resources

Handbook of Alaska; its resources, products, and attractions in 1924. A. W. Greely. 3d ed. 330p Scribner '25

See also Coal mines and mining—Alaska; Copper mines and mining—Alaska; Forests and forestry—Alaska; Gold mines and mining—Alaska; Mines and mineral resources—Alaska; Paper industry and trade—Alaska; Petroleum—Alaska; Water power—Alaska

ALASKA agricultural college and school of mines
Alaska agricultural college and school of mines begins fourth year. J: A. Davis. il Eng & Min J 120:544 O 3 '25

ALASKA Juneau gold mining company
Records of unit production for 1923. Eng & Min J 117:1045 Je 28 '24

ALASKA railroad. See Railroads—Alaska

ALBANY, New York

Rapid transit

Gas-electric buses used in Albany. il map Elec Ry J 66:391-3 S 12 '25

ALBERTA

See also Irrigation—Alberta; Roads—Alberta

ALBERTA—*Continued*

Industries and resources

Extent and characteristics of Northern Alberta bituminous sands. S. C. Ells. Nat Pet N 16:69+ Ap 9; 75+ Ap 23 '24; Same cond. Inst Pet Tech J 10:710-17 S '24

See also Coal—Alberta; Gas, Natural—Alberta; Petroleum—Alberta

ALBERTOL. See Resinous products

ALBI, France

Albi—a mediaeval town. A. Embury, jr. il Arch Rec 57:549-59 Je '25

ALBRECHT, F. W., company

How we invest our surplus earnings. F. W. Albrecht. il System 48:39-41+ Jl '25

ALBUMIN

Irregular series in the precipitation of albumin. A. W. Thomas and E. R. Norris. Am Chem Soc J 47:501-13 F '25

Measurements of the mobility of egg albumin at different acidities. N. D. Scott and T. Svedberg. il diag Am Chem Soc J 46: 2700-7 D '24

Surface concentration of casein, crystalline egg-albumin and crystalline haemoglobin. J. M. Johlin. J Phys Chem 29:897-913 Ag '25

ALCHEMY

Romance of chemistry; 17th century English translation of De re metallica. E. J. Holmyard. Soc Chem Ind J (Chem & Ind) 44:75-7, 105-8, 136-7, 272-6, 300-1, 327-8 Ja 23-F 6, Mr 13-27 '25

ALCOA, Tennessee

Plan for industrial community of Alcoa, Tennessee. R. F. Ewald. il plan Eng N 92:364-7 F 28 '24

ALCOHOL

Activity coefficients of hydrochloric acid in solutions of ethyl alcohol. H. S. Harned and M. H. Fleysher. Am Chem Soc J 47: 82-92 Ja '25

Alcohol—why? il Manuf Rec 86:488-9 pt 2 D 11 '24

Catalytic preparation of ether from alcohol by means of aluminum oxide. R. H. Clark, W. E. Graham and A. G. Winter. diag Am Chem Soc J 47:2748-54 N '25

Chlorination of ethyl alcohol. F: D. Chattaway and O: G. Backeberg. Chem Soc J 125:1097-1101 My '24

Contraction of alcohol on dilution. H. P. Foran. Soc Chem Ind J 43:338-40 N 21 '24

Décomposition catalytique de l'alcool éthylique en présence d'alumine. J. E. Goris. Chimie & Ind 11:449-52 Mr '24

Decomposition of substituted carbamyl chlorides by hydroxy-compounds; the reaction between phenylmethylcarbamyl chloride and ethyl alcohol at different temperatures. T. W. Price. Chem Soc J 125:115-29 Ja '24

Dehydration of peat by the use of alcohol. H. M. Spiers. Soc Chem Ind J 42:455-6 N 23 '23

Determination of water in mixtures of ether, alcohol, and water. R. K. Newman. diag Soc Chem Ind J 43:285-7 S 5 '24

Industrial alcohol. J: G. M'Intosh. 2d ed., rev. & enl. 400p Van Nostrand '24

Molar weight of selenium dioxide in ethyl alcohol. E. B. R. Prideaux and G. Green. J Phys Chem 28:1273-8 D '24

Nature of soap in alcohol. W. A. Patrick, W: L. Hyden and E: F. Milan. J Phys Chem 29: 1004-8 Ag '25

Pharmacology of alcohol. R. Hunt. Ind & Eng Chem 17:427 Ap '25

Position of equilibrium in the alcohol-ether reaction at 130° and 275°. R. N. Pease and Chi Chao Yung. diags Am Chem Soc J 46:2397-2405 N '24

Report of N. P. O. & V. A. alcohol committee. Oil Paint & Drug Rep 106:52 O 29 '24

Selective solvent action by the constituents of aqueous alcohol; the effect of some alcohol-soluble semi-solutes. R. Wright. Chem Soc J 123:2493-9 O '23

Selective solvent action by the constituents of aqueous alcohol; the effect of some water-soluble semi-solutes. R. Wright. Chem Soc J 125:2068-9 O '24

Some recent developments in industrial alcohol. J. M. Doran. Ind & Eng Chem 16: 641 Je '24

Statistics of grain alcohol. Survey of Cur Business 44:27-8 Ap '25

Transference numbers of hydrochloric acid in solutions of ethyl alcohol. H. S. Harned and M. H. Fleysher. Am Chem Soc J 47: 92-5 Ja '25

Vapor pressure curves for systems containing alcohol, ether, and water. E. A. Louder, T. R. Briggs and A. W. Browne. diag charts Ind & Eng Chem 16:932-5 S '24

See also Fermentation; Gasoline service stations—Alcohol trade; Prohibition

Analysis

Compensation of temperature and instrument factors in determination of alcoholic content. E. A. Vuilleumier. Ind & Eng Chem 17:201 F '25

Detection of diethylphthalate in ethyl alcohol. J. T. Raleigh and S. U. Marie. Am Chem Soc J 47:589-90 F '25

Volumetric determination of minute quantities of ethyl alcohol. W. Derome and F. Pepin. Can Chem & Met 9:65-6 Mr '25

Bibliography

L'alcool éthylique. C: Schweizer. Chimie & Ind 12:627-32 O '24

Dehydration

Catalytic dehydration of ethyl alcohol and ether by alumina. R. N. Pease and C. C. Yung. diag Am Chem Soc J 46:390-403 F '24

Dehydration of alcohol by means of glycerin. E. Knecht and E. F. Muller. Soc Chem Ind J 43:177-8 Je 6 '24

Étude sur la déshydratation des vapeurs alcooliques par la glycérine et les solutions glycérineuses. Mariller. il diag Chimie & Ind 10:643-55 O '23

La fabrication industrielle de l'alcool déshydraté employé à la préparation du carburant national. G. Patart. Génie Civil 84:118-19 F 2 '24

Laws and regulations

Alcohol denaturing regulations insist that applicants prove their fitness. Oil Paint & Drug Rep 108:21 Jl 20 '25

Alcohol regulations for denatured products signed in revised form. Oil Paint & Drug Rep 107:21-2 Jl 6 '25

Alcohol regulations 61, revised, are to become effective August 1. Oil Paint & Drug Rep 108:21+ Jl 27 '25

Manufacture

Alcohol from cane blackstraps. W. L. Owen and J. D. Bond. Ind & Eng Chem 16:387-92 Ap '24

Alcohol from sulphite lyes. M. L. Griffin. Paper 33:8-10 D 20 '23

Alcohol motor fuel from molasses. E. C. Freeland. Ind & Eng Chem 17:615-21 Je '25

Cause of the low yield of alcohol on fermentation of molasses. D. N. Gupta, H. D. Sen and E. R. Watson. Soc Chem Ind J 43:291-2 S 19 '24

Chemist and the fermentation industries. J. L. Baker. Chem Age (Lond) 11:493-4 N 15 '24

Ethyl alcohol synthesis interests U.S. chemists. Oil Paint & Drug Rep 107:21 My 11 '25

La fabrication industrielle de l'alcool synthétique dans les cokeries et usines à gaz. F. Vallette. diags Chimie & Ind 13:718-21 My '25; Abstract (Alcohol from coke ovens). Iron Age 116:419 Ag 13 '25

Glucose and alcohol from wood waste. Chem & Met Eng 32:236 F 9 '25

Industrial alcohol and byproducts from raisins. A. W. Allen. il diags Chem & Met Eng 32:674-8 Ag '25

ALCOHOL—Manufacture—*Continued*
Multiple-effect distillation of ethyl alcohol. G: Calingaert. il diags Chem & Met Eng 32: 362-3 Mr '25
Power alcohol from tubers and roots. Engineering 119:356 Mr 20 '25; Same. Soc Auto Eng J 16:546 My '25
Proper utilization of waste sulphite liquor. R. H. McKee. Chem Age 31:483-5 N '23
Research work in synthesis engages French chemists. Chem & Met Eng 32:594 Je '25
Special features of the new plant of Commercial alcohols ltd., Montreal. Can Chem & Met 8:97 Ap '24

Taxation

Alcohol tax discussion brings out difference of opinion in drug trade. Oil Paint & Drug Rep 108:21 N 2 '25
Alcohol tax reduction advocated and opposed before committee of Congress. Oil Paint & Drug Rep 105:19+ Ja 21 '24

ALCOHOL, Denatured
Chemical and material markets in 1923. Chem & Met Eng 30:108 Ja 21 '24
Confirmatory test for the presence of diethylphthalate in specially denatured alcohol. E. A. Vuilleumier. Ind & Eng Chem 16:1120 N '24
Cuba adopts new list of alcohol denaturants. Oil Paint & Drug Rep 106:19 Jl 7 '24
Denatured alcohol production at new high record, 1924. Chem & Met Eng 32:134 Ja 19 '25
Industrial alcohol has good year. S. Klein. Chem & Met Eng 32:88 Ja 19 '25
Industrial alcohol made progress in 1923. B. R. Tunison. Chem & Met Eng 30:95+ Ja 21 '24
67 million gallons per year; 1924 production of denatured alcohol. B. R. Tunison. Chem & Met Eng 32:122-3 Ja 19 '25

See also Alcohol—Laws and regulations

Taxation

Tax for denatured alcohol is latest development in planning of schedules. Oil Paint & Drug Rep 108:21+ N 9 '25

ALCOHOL, Physiological effect of
Alcohol and human physiology. F. G. Benedict. Ind & Eng Chem 17:423-6 Ap '25

See also Alcoholism

ALCOHOL, Wood. See Methanol

ALCOHOL as fuel
Alcohol as a source of power. C: H. Bedford. Power 60:307-8 Ag 19 '24
Alcohol motor fuel from molasses. E. C. Freeland and W. G. Harry. Ind & Eng Chem 17: 615-21, 717-20 Je-Jl '25; Excerpt. Pet Age 16:23+ Ag 1 '25
Alcohol motor fuels. M. C. Whitaker. Oil Paint & Drug Rep 108:xi pt 2 O 5 '25; Same. Chemicals 24:8 O 5 '25; Abstract. Chem Age (Lond) 13:417 O 24 '25
Alcohol still unable to replace petrol. Nat Pet N 17:57 Jl 29 '25
Combustibles et carburants coloniaux. R. Fouque. Génie Civil 85:315-18 O 11 '24
Fuel alcohol from Nipa palm. Automotive Ind 53:627 O 8 '25
Power alcohol from beet. Soc Chem Ind J (Chem & Ind) 43:1268-9 D 19 '24
World trade in gasoline; with supplementary report on alcohol motor fuels. H. S. Fox. U S Bur For & Dom Com Trade Promotion ser 20:86-97 '25

ALCOHOL-ether mixtures
Alcohol motor fuel from molasses. E. C. Freeland and W. G. Harry. Ind & Eng Chem 17:717-20 Jl '25

ALCOHOL in the body
Volumetric determination of minute quantities of ethyl alcohol. W. Derome and F. Pepin. Can Chem & Met 9:65-6 Mr '25

See also Alcohol, Physiological effect of

ALCOHOLATES
Condensation of aldehydes to esters by alkoxides. W. C. Child and H. Adkins. Am Chem Soc J 47:798-807 Mr '25

ALCOHOLISM
Alcoholism and industrial accidents. T. Voionmaa. Int Labour R 11:200-28 F '25
Present loss in life and health due to alcohol. C. F. Stoddard. Nation's Health 7:179-82 Mr '25
Prohibition and alcoholic mental disease. charts Nation's Health 6:719-20 O '24

ALCOHOLS
Alcohols of the hydroaromatic and terpene series; α- and β-fenchyl alcohols and some esters derived therefrom. J. Kenyon and H. E: M. Priston. Chem Soc J 127:1472-87 Je '25
Alcohols present in the wax of American cotton. R. G: Fargher and M. E. Probert. bibliog Textile Inst J 15:T337-46 Je '24; Abstract. Soc Dyers & Col J 40:300 S '24
Arsono-arylamino alcohols. C. W. Rodewald and R. Adams. Am Chem Soc J 45:3102-5 D '23
Catalytic dehydration of alcohols. A. B. Brown and E. E. Reid. J Phys Chem 28: 1077-81 O '24
Condensation of primary alcohols with resorcinol and other hydroxy aromatic compounds. R. N. Sen and N. N. Sarkar. Am Chem Soc J 47:1079-91 Ap '25
Conversion of amino-acids into tertiary amino-alcohols. A. McKenzie and G: O. Wills. Chem Soc J 127:283-95 Ja '25
Dehydration of alcohols over alumina. H. Adkins and P. P. Perkins. Am Chem Soc J 47:1163-7 Ap '25
Dehydrogenation and dehydration of alcohols over a zinc oxide catalyst. W. A. Lazier and H. Adkins. Am Chem Soc J 47:1719-22 Je '25
Elimination of the amino-group of tertiary amino-alcohols; the semipinacolinic deamination of β-hydroxy-αβ-diphenyl-β-naphthylethylamine. A. McKenzie and W. S: Dennler. Chem Soc J 125:2105-10 O '24
Higher alcohols from petroleum olefins. W. W. Clough and C. O. Johns. Ind & Eng Chem 15:1030-2 O '23; Same. Pet Age 13:48+ Ja 1 '24
Hypochlorous acid and the alkyl hypochlorites. M. C. Taylor, R. B. MacMullin and C. A. Gammal. Am Chem Soc J 47:395-403 F '25
Investigations on the dependence of rotatory power on chemical constitution; four alcohols containing the vinyl group and some esters derived therefrom. J. Kenyon and D. R. Snellgrove. Chem Soc J 127:1169-81 My '25
Investigations on the dependence of rotatory power on chemical constitution; three optically active alcohols containing a phenyl group and some esters derived therefrom. L. F. Hewitt and J. Kenyon. Chem Soc J 127:1094-1104 My '25
Liquid fuels from water gas. F. Fischer. Ind & Eng Chem 17:574-6 Je '25
Method for the preparation of primary acetylenic alcohols. H. H. Guest. Am Chem Soc J 47:860-3 Mr '25
Platinum oxide as a catalyst in the reduction of organic compounds: reduction of aminophenols to cyclic amino-alcohols. H. Heckel and R. Adams. Am Chem Soc J 47:1712-18 Je '25
Platinum oxide as a catalyst in the reduction of organic compounds; the preparation of primary alcohols by the catalytic hydrogenation of aldehydes. W. H. Carothers and R. Adams. Am Chem Soc J 46:1675-83 Jl '24
Reactivity of atoms and groups in organic compounds; the relative reactivities of the hydroxyl-hydrogen atoms in certain alcohols. J. F. Norris and A. A. Ashdown. Am Chem Soc J 47:837-46 Mr '25
Some physical-chemical properties of mixtures of ethyl and iso-propyl alcohols. G: S. Parks and K. K. Kelley. J Phys Chem 29:727-32 Je '25
Some physical-chemical properties of mixtures of ethyl and n-propyl alcohols. G: S. Parks and J. R. Schwenck. diag J Phys Chem 28:720-9 Jl '24

ALCOHOLS—*Continued*
Thermal data on organic compounds; the heat capacities and free energies of methyl, ethyl and normal-butyl alcohols. G: S. Parks. Am Chem Soc J 47:338-45 F '25

See also Benzyl alcohol; Butyl alcohol; Diacetone alcohol; Isoamyl alcohol; Mercaptans; Methanol; Octyl alcohol

Analysis

3-nitrophthalic anhydride as a reagent for alcohols. B. H. Nicolet and J. Sacks. Am Chem Soc J 47:2348-50 S '25

ALCOHOLYSIS
Studies in alcoholysis; velocity constants in the alcoholysis of esters of alpha-beta-unsaturated acids and of their corresponding saturated analogs. B. Dasannacharya. Am Chem Soc J 46:1627-40 Jl '24

ALDEHYDES
Absorption spectra of the vapours and solutions of various ketones and aldehydes. J: E: Purvis. il Chem Soc J 123:2515-21 O '23
Absorption spectra of various aldehydes and ketones and some of their derived compounds. J: E: Purvis. Chem Soc J 127:9-14 Ja '25
Addition of chloroform to aldehydes. J. W. Howard. Am Chem Soc J 47:455-6 F '25
α-oxides from aldehydes and carboxylic acids. J. von Braun. Chem Soc J 124 pt 1:1186-7 D '23
Condensation of aldehydes to esters by alkoxides. W. C. Child and H. Adkins. Am Chem Soc J 47:798-807 Mr '25
Condensation of aldehydes to esters by aluminum ethoxide. W. C. Child and H. Adkins. diags Am Chem Soc J 45:3013-23 D '23
Condensation of aldehydes with cyanoacetamide. R. H. Curtis, J. N. E. Day and L. G: Kimmins. Chem Soc J 123:3131-40 D '23
Condensation of aldehydes with resorcinol and some other aromatic hydroxy compounds. R. N. Sen and N. N. Sinha. Am Chem Soc J 45:2984-96 D '23
Freezing point of weak aldehyde solutions. T. P. G. Shaw. Can Chem & Met 9:141 Je '25
Grignard synthesis of aldehydes. C: E. Wood and M. A. Comley. Soc Chem Ind J 42:429-32 N 9 '23
New synthesis of aldehydes. H: Stephen. Chem Soc J 127:1874-7 Ag '25
Platinum oxide as a catalyst in the reduction of organic compounds; the preparation of primary alcohols by the catalytic hydrogenation of aldehydes. W. H. Carothers and R. Adams. Am Chem Soc J 46:1675-83 Jl '24
Preparation of palladous oxide and its use as a catalyst in the reduction of organic compounds. R. L. Shriner and R. Adams. Am Chem Soc J 46:1683-93 Jl '24
Reaction between aromatic aldehydes and phenanthraquinone in presence of ammonia. A. C. Sircar and N. C. G. Ray. Chem Soc J 127:1048-9 My '25
Reaction between metallic sodium and aromatic aldehydes, ketones and esters; aldehydes. F. F. Blicke. Am Chem Soc J 46:2560-71 N '24
Simplification of the Gattermann synthesis of aromatic aldehydes. R. Adams and E. Montgomery. Am Chem Soc J 46:1518-21 Je '24
Studies on reactions relating to carbohydrates and polysaccharides; the electrolytic reduction of carbonyl derivatives. H. Hibbert and R. R. Read. diags Am Chem Soc J 46:983-99 Ap '24
Systematic detection of traces of aldehydes. E. C. Crocker. Ind & Eng Chem 17:1158-9 N '25

See also Furfural

ALDOXIMES
Isomerism of the oximes; action of picryl chloride and of 2:4-dinitrochlorobenzene on aldoximes. O. L. Brady and L: Klein. Chem Soc J 127:844-52 Ap '25
Isomerism of the oximes; the action of 2:4-dinitrochlorobenzene on some isomeric aldoximes. O. L. Brady and R: Truszkowski. Chem Soc J 125:1087-96 My '24
Isomerism of the oximes; the action of ultra-violet light on aldoximes and their derivatives. O. L. Brady and G. P. McHugh. Chem Soc J 125:547-54 Mr '24
Isomerism of the oximes; the configuration of the aldoximes. O. L. Brady and G. Bishop. Chem Soc J 127:1357-62 Je '25

ALEXANDERSON, E. F. W.
Radio system built of air-castle dreams. H. Clawson. por Wireless Age 11:26-9+ Ag '24

ALFALFA
Non-volatile organic acids of alfalfa. W: A. Turner and A. M. Hartman. Am Chem Soc J 47:2044-7 Jl '25

Diseases and pests

Danger to alfalfa from the eel-worm disease. Sci Am 130:243 Ap '24

ALGAE
Algae control in Texas. W. S. Mahlie. Am Water Works Assn J 10:998-1010 N '23; Same abr. Eng & Contr (W W) 60:1235-8 D 12 '23
Algae in public water supplies. W. C. Purdy. Eng N 94:103 Ja 15 '25; Same. Eng & Contr (W W) 63:115 Ja 14 '25
Applying copper sulphate to reservoirs; abstracts. W. Rushton and P. A. Audin. Pub Works 56:55 F '25; Eng & Contr (W W) 63:125-6 Ja 14 '25
Identification of fresh water algae. I. M. Lewis. Eng & Contr (W W) 61:802-3 Ap 9 '24; Same. Can Eng 48:252 F 24 '25

ALGAE, Fossil
Lithothamnium (?) ellisianum sp. nov. from the Jurassic Ellis formation of Montana. M. A. Howe and M. I. Goldman. il Am J Sci 5th ser 10:314-24 O '25

ALGEBRA
Brief course in advanced algebra. H. E. Buchanan and L. C. Emmons. 185p Houghton '25
Complete algebra. E: I. Edgerton and P. A. Carpenter. 587p Allyn and Bacon, Boston, New York '25
First book in algebra. H. B. Baker. 316p Appleton '24
Is algebra worth while? Power 59:620 Ap 15 '24
Solution of formulas. L. R. Jones. Am Mach 60:589-90 Ap 17 '24

ALGERIA

Commerce

Algeria: a commercial handbook. C. L. Jones and E: A. Dow. il map U S Bur For & Dom Com Trade Promotion Ser 8:1-51 '25

ALHAMBRA
The Alhambra, Granada. M. Stapley and A. Byne. il Arch Rec 55:569-77 Je '24

See also Granada

ALHAMBRA, California

Sewerage

Tri-cities' activated-sludge plant at Alhambra, Calif. Eng N 95:714-16 O 29 '25

ALIEN labor
Alien workers under workmen's compensation legislation in the British Empire. Int Labour R 9:708-28 My '24

ALIEN property
Federal reserve banks to act as depositaries of property held by Alien property custodian. Comm & Fin Chr 121:282 Jl 18 '25
How about the alien property fund? W: P. Sidley. Nation's Business 13:66+ My '25
Man without a country. W: Ashdown. Bankers M 109:15-18 Jl '24

ALINEMENT charts. See Charts (calculating); Nomography

ALINEMENT of machinery
Checking crankshaft alignment. J: W. Cook. diag Power 62:517 O 6 '25
Connecting two alternators to the same water-wheel. N. L. Rea. diags Power 61:417-18 Mr 17 '25

ALINEMENT of machinery—*Continued*
How to line up a motor pinion with the gear it drives. D. A. Hampson. diags Ind Eng 83:398-9 Ag '25
Leveling turret and engine lathes. K. H. Crumrine. Am Mach 60:508 Ap 3 '24
Lining up turbine-driven pumps to kill vibration. il Eng N 91:1076-7 D 27 '23
Procedure for alining power equipment. diags Power Pl Eng 28:1051-4 O 15 '24

ALIZARINE rubinole R
Alizarine rubinole R. Am Dyestuff Rep 13:179 Mr 10 '24

ALKALI chlorates
Safe handling and storage of chlorates and perchlorates. Nat Safety N 12:47 S '25

ALKALI cyanides
Occurrence of alkali cyanides in the iron blast furnace. S. P. Kinney and E. W. Guernsey. diag Ind & Eng Chem 17:670-4 Jl '25; Same. Blast F & Steel Pl 13:395-9 O '25

ALKALI disulfides
Studies in the organic polysulphides; the action of the disulphides of the alkali metals and of sodium tetrasulphide on some organic halogen compounds. J: S. Thomas and R: W: Riding. Chem Soc J 125:2460-8 D '24

ALKALI halides
Coloration of the alkali halides by X-rays. P. L. Bayley. Phys R 24:495-501 N '24
Compressibility of the alkali halides. J. C. Slater. Phys R 23:488-500 Ap '24
Electrical conductance of solutions of the alkali halides in acetophenone. J. L. R. Morgan and O. M. Lammert. diag Am Chem Soc J 46:1117-32 My '24
Photochemical reactions in solutions of the alkali halides in acetophenone. J. L. R. Morgan, O. M. Lammert and R. H. Crist. diag Am Chem Soc J 46:1170-8 My '24
Precision crystal measurements on some alkali and ammonium halides. R. J. Havighurst, E. Mack, jr. and F. C. Blake. Am Chem Soc J 46:2368-74 N '24
Secondary valence in the light of recent researches; alkali polyhalides. G: L. Clark. bibliog Am J Sci 5th ser 7:109-20 F '24
Solid solutions of the alkali and ammonium halides. R. J. Havighurst, E. Mack, jr. and F. C. Blake. Am Chem Soc J 47:29-43 Ja '25
Study of crystal structure and its applications. W. P. Davey. Gen Elec R 28:342-3 My '25

See also Ammonium chloride; Potassium chloride; Potassium iodide; Salt; Sodium fluoride; Sodium iodide

ALKALI metal compounds
Chemical exchange reactions of a zeolite. C. J. Frankforter and F. W. Jensen. Ind & Eng Chem 16:621-4 Je '24
Coefficients of diffusion of certain alkali salt vapors in the Bunsen flame. G: E. Davis. diags Phys R 24:383-95 O '24
Equilibria in solutions containing mixtures of salts; the system, water and the chlorides and carbonates of sodium and potassium at 25°; the system, water and the sulfates and carbonates of sodium and potassium at 25°. W. C. Blasdale. Am Chem Soc J 45:2935-46 D '23
Some co-ordinated compounds of the alkali metals. N. V. Sidgwick and S. G. P. Plant. Chem Soc J 127:209-11 Ja '25

ALKALI metals
Critical potentials associated with excitation of alkali spark spectra. F. L. Mohler. diags U S Bur Stand Sci Pa 505:167-91 '25
Displacement of metals from solutions of their salts by less electropositive elements; the replacement of sodium and potassium by magnesium and aluminum. F. W. Bergstrom. Am Chem Soc J 45:2788-94 D '23
Electrical resistance and thermo-electric power of the alkali metals. C: C. Bidwell. diags Phys R 23:357-76 Mr '24
Emission spectra of mixed alkali vapours. F. H. Newman. diag Philos Mag 6th ser 48:159-63, pl 4 Jl '24
Heat of evaporation of electrons. J. J. Weigle. Phys R 25:187-92 F '25
Separation and determination of the alkali metals, using perchloric acid. G. F: Smith and J: F. Ross. Am Chem Soc J 47:762-9, 774-81, 1020-6 Mr-Ap '25

See also Cesium; Potassium; Sodium

ALKALI perchlorates
Separation and determination of the alkali metals, using perchloric acid; the insolubilities of the perchlorates of the alkali metals in mixed organic solvents. G. F: Smith. Am Chem Soc J 47:762-9 Mr '25
Separation and determination of the alkali metals using perchloric acid. G. F: Smith and J: F. Ross. il Am Chem Soc J 47:774-81, 1020-6 Mr-Ap '25

ALKALI soils
Bibliography
Bibliography relating to soil alkalies. F. V. King, G. Ervin and O. L. Evans. U S Agric Bul 1314:1-40 '25

ALKALIES
Annual review of British alkali works in 1923. Chem Age (Lond) 11:4-6, 39 Jl 5-12 '24
Behavior of silica gel towards certain alkalies and salts in aqueous solution. W. A. Patrick and E. H. Barclay. J Phys Chem 29:1400-5 N '25
Chief inspector's annual report on alkali works. Chem Age (Lond) 13:4-6 Jl 4 '25
Establishment of flat quotations and lowering of prices features in alkalis. E. M. Taylor. Chem & Met Eng 30:96 Ja 21 '24
Examinations in alkali manufacture. Chem Age (Lond) 10:614-16 Je 14 '24
Liberation of hydrogen from carbon compounds; the interaction of acetylene, methyl alcohol and formaldehyde with fused caustic alkalies. H. S. Fry, E. L. Schulze and H. Weitkamp. Am Chem Soc J 46:2268-75 O '24
Use of alkali in scientific washing. F. H. Guernsey. Color Tr J 13:208-11 D '23
Use of iron or nickel crucibles for alkali determinations. A. W. Epperson and R. B. Rudy. Ind & Eng Chem 17:35 Ja '25

See also Alkali metals; Ammonia; Concrete, Effect of alkalies on; Potash; Potassium; Potassium hydroxide; Sodium compounds; Sodium hydroxide

ALKALINITY
See also Hydrogen ion concentration

ALKALOIDS
Automatic devices for extracting alkaloidal solutions. S. Palkin, A. G. Murray and H. R. Watkins. bibliog diags Ind & Eng Chem 17:612-14 Je '25
Effect of the addition of some alkaloids on the rate of solution of iron in dilute hydrochloric acid. M. B. Rane and M. Prasad. diag J Phys Chem 29:249-55 Mr '25
Hydroferrocyanides and hydroferricyanides of the alkaloids. W: M. Cumming and D. G. Brown. il Soc Chem Ind J 44:110-15 Mr 6 '25

See also Harmine; Physostigmine; Spathulatine; Yajeine

ALKOXIDES. See Alcoholates

ALKYL carbazoles
New method for the preparation of 9-alkylcarbazoles. H. Burton and C: S. Gibson. Chem Soc J 125:2501-4 D '24

ALKYL chlorides
Preparation of alkyl chlorides. J. F. Norris and H. B. Taylor. Am Chem Soc J 46:753-7 Mr '24
Relation between the structure of organic halides and the speeds of their reaction with inorganic iodides; a study of the alkyl chlorides. J. B. Conant and R. E. Hussey. Am Chem Soc J 47:476-88 F '25

ALKYL chlorocarbonates
Action of alkyl chlorocarbonates on amino-arylarsonic acids. C. S. Hamilton and C. Sly. Am Chem Soc J 47:435-9 F '25

ALKYL chloromalonamides
Alkylchloromalonamides; the influence of homology on taste. A. W. Dox and B. Houston. Am Chem Soc J 46:1278-81 My '24

ALKYL group
Electrolytic introduction of alkyl groups. J. M. Nelson and A. M. Collins. diag Am Chem Soc J 46:2256-67 O '24

ALKYL halides
Studies in the organic polysulphides; the action of anhydrous potassium pentasulphide on some alkyl halides. R: W: Riding and J: S. Thomas. Chem Soc J 123:3271-8 D '23

ALKYL hypochlorites
Hypochlorous acid and the alkyl hypochlorites. M. C. Taylor, R. B. MacMullin and C. A. Gammal. Am Chem Soc J 47:395-403 F '25

ALKYL iodides
Researches on quinazolines; stereoisomeric styryl derivatives of some 4-quinazolone alkyl iodides, and their bearing upon the problem of photosensitizing dyes. M. T. Bogert and H. Clark. Am Chem Soc J 46: 1294-1301 My '24

ALKYL nitrites
Condensation of aryldiazonium salts and of alkyl nitrites with certain derivatives of cyanoacetic acid. T: K. Walker. Chem Soc J 125:1622-5 Ag '24

ALKYL sulfides
Preparation of alkyl sulfides. A. E. Wood. Am Chem Soc J 47:2062 Jl '25

ALKYL sulfonates
Preparation of hydrocarbons by the reaction between alkyl sulfonates and organomagnesium halides. H: Gilman and N. J. Beaber. Am Chem Soc J 47:518-25 F '25

ALKYL tin halides
Studies relating to metallo-organic compounds; compounds formed between alkyl tin halides and ammonia and the amines. C: A. Kraus and W. N. Greer. Am Chem Soc J 45:3078-83 D '23

ALKYL titanates
Alkyl titanates. F. Bischoff and H. Adkins. Am Chem Soc J 46:256-9 Ja '24

ALKYLATION
Alkylation of amines and phenols. Chem Age (Lond) 13:414-15 O 24 '25
Alkylation of mercaptans by means of sulfonic esters. H: Gilman and N. J. Beaber. Am Chem Soc J 47:1449-51 My '25
Alkylation of primary amines with aluminum alkoxides to give secondary amines free from tertiary amines. W. A. Lazier and H. Adkins. Am Chem Soc J 46:741-6 Mr '24
Catalytic alkylation of ammonia. A. B. Brown and E. E. Reid. J Phys Chem 28:1067-76 O '24
Catalytic alkylation of aniline. A. B. Brown and E. E. Reid. Am Chem Soc J 46:1836-9 Ag '24
Methylethyl sulfate as an alkylating agent. F. K. Thayer. Am Chem Soc J 46:1044-6 Ap '24
Tautomerism of amidines: the alkylation of open-chain amidines. F. L. Pyman. Chem Soc J 123:367-70, 3359-75 F, D '23

ALL America cables, inc.
Annual report for year ending December 31, 1924. Comm & Fin Chr 120:1637 Mr 28 '25

ALLEGHENY river
Bridge-raising program on the Allegheny river in Allegheny county. V. R. Covell. Eng Soc W Pa 41:81-97; Discussion. 98-104 Ap '25

ALLEYS
Alley paving as a health measure. Pub Works 56:82-3 Mr '25

ALLIED architects' association of Los Angeles
Allied architects' association of Los Angeles. Am Inst Arch J 12:376, 417-18, 456, 493-4, 544; 13:40, 78, 192, 276 Ag '24-F, My, Jl '25

ALLIED debts. See Debts, Public

ALLIS, Louis, 1866-
Sketch. por Elec W 84:1296 D 20 '24

ALLIS-CHALMERS manufacturing company
Annual report, 11th, 1923. Comm & Fin Chr 118:1935 Ap 19 '24
Annual report, 12th, for the fiscal year ended December 31 1924. Comm & Fin Chr 120: 2037-8 Ap 18 '25
Three large manufacturing units created by growth of the electrical industry. il Ind Eng 83:2-5+ Ja '25

ALLOTROPY
Allotropy of germanium dioxide. J: H. Müller and H. R. Blank. Am Chem Soc J 46: 2358-67 N '24
Complexity of the solid state; the behaviour of phosphorus pentoxide. A. Smits and A. J. Rutgers. diag Chem Soc J 125:2573-9 D '24
Complexity of the solid state; the behaviour of pure sulphur trioxide. A. Smits and P. Schoenmaker. diags Chem Soc J 125:2554-73 D '24
Influence of intensive drying on inner equilibria. A. Smits. diag Chem Soc J 125:1068-75 My '24
Investigation of the alleged allotropy of zinc by X-ray analysis and a redetermination of the zinc lattice. W. M. Peirce, E. A. Anderson and P. Van Dyck. bibliog J Fr Inst 200: 349-61 S '25

ALLOXANTIN
New investigations with diazomethane; alloxantin. H. Biltz and H. Paetzold. Chem Soc J 124 pt 1:1233-5 D '23

ALLOY steels. See Steel alloys

ALLOYS
Activities of zinc, cadmium, tin, lead and bismuth in their binary liquid mixtures. N. W. Taylor. diags Am Chem Soc J 45:2865-90 D '23
Chemistry of solids. C. H. Desch. Soc Chem Ind J (Chem & Ind) 44:924-9 S 18 '25
Colloidal separations in alloys. J. H. Andrew and R. Hay. il Engineering 120:311; Discussion. 299 S 4 '25
Corrosion-resistant, heat-resistant and electrical-resistance alloys. 265p American society for testing materials, 1315 Spruce st., Philadelphia '25
Corrosion-resisting alloys. Engineering 120:233-4 Ag 21 '25
Die casting. N. C. Barnard. il diags Mech Eng 46:661-9 N '24; Same. Brass W 21:3-7, 45-50 Ja-F '25; Same cond. Engineering 119: 28-30, 54-6 Ja 2-9 '25
Electrical conductivity and certain other properties of metals and alloys on the basis of Bohr's theory. K. Höjendahl. diags Philos Mag 6th ser 48:349-60 Ag '24
L'emploi des alliages légers et ultra-légers pour les pistons de moteurs à explosion. P. Dunanois. Génie Civil 84:602-3 Je 21 '24; Discussion. R. de Fleury. 85:71-2 Jl 19 '24
Four classes of die-casting alloys. D. L. Colwell. il Iron Age 115:1123+ Ap 16 '25
Fuel of the future—what shall it be? heat treatment and melting point of non-ferrous metals. I. Ginsberg. Am Gas J 123:483-4+ O 24 '25
Fundamentals of die casting. S. A. Hellings. il diag Iron Tr R 76:1070-2 Ap 23 '25
Inner structure of alloys; abstracts. W. Rosenhain. Engineering 119:233-4, 265-6, 311-12 F 20-27. Mr 13 '25; Chem Age (Lond) 12: 178 F 21; sup19 Mr 7 '25; Engineer 139:293 Mr 13 '25
Japanese metal working. Roberts-Austen Brass W 20:7 Ja '24
Die legierungen in ihrer anwendung für gewerbliche zwecke. A. Ledebur. 6th ed., rev. & enl. 424p M. Krayn, Berlin '24
Light alloys; a general survey of modern practice. J. B. Swan. il Automobile Eng 14:293-300 O '24
List of alloys. W: Campbell. Am Soc T M Pro 22 pt 1:213-42 '22; Excerpts. Metal Ind 21:99, 143-4, 189-90, 281-2, 360-2, 474-6; 22: 238-9, 270-1, 313-14, 355-6; 23:184-5 Mr-My, Jl, S, D '23, Je-S '24, My '25; Discussion. Am Soc T M Pro 22 pt 1:243-4 '22

ALLOYS—*Continued*
Metallography for engineers; eutectics and eutectoids. W. Rosenhain. il diags Engineer 139:sup70-2, sup85-8 My 29-Je 26 '25
Metallography of non-ferrous metals. J. K. Wood. Am Mach 62:433-6 Mr 12 '25
Les métaux légers dans les moteurs à explosion. L. de Fleury. Soc Ing Civils Bul 77: 712-33 [bibliog. p. 733], pl 85 O '24
Méthodes de recherche et de contrôle dans la métallurgie de précision. P. Chevenard. diags Soc Ing Civils Bul 76:932-72 Jl '23
Modern concept of solid solutions. Z. Jeffries and R. S. Archer. diag Chem & Met Eng 29:923-6, 966-9 N 19-26 '23
Die nichteisenmetalle unter besonderer berücksichtigung der luftfahrzeuge. E. H. Schulz. diag Zeit Ver Deutsch Ing 68:545-50 My 31 '24
Practical importance of the equilibrium diagram. D. Hanson. il Engineer 139:sup18-22 F 27 '25
Preparation of pure alloys. R. F. Mehl. Am Electrochem Soc Trans v 46 (preprint 2):9-36 O '24
Properties of fusible alloys. N. F. Budgen. il Soc Chem Ind J 43:200-3 Jl 4 '24
Rate of cooling determines hardness of alloy. L. Kaul. Automotive Ind 50:723 Mr 27 '24
Récents progrès dans la fabrication et l'utilisation des alliages; abstract. L. Guillet. Chimie & Ind 12:690-2 O '24
Stainless age in metals. R. Ainger. Can Chem & Met 8:227-8 S '24
Substitutes for platinum. E. A. Smith. Engineering 116:651-2 N 23 '23
Symposium on corrosion-resistant, heat-resistant and electrical-resistance alloys; introduction—with tabulation of manufacturers' data on composition and properties of the alloys. Am Soc T M Pro 24 pt 2:189-453 '24; Excerpt (Tabular presentation of chemical and physical properties of corrosion-resisting alloys). Chem & Met Eng 31:79-83 Jl 14 '24
Symposium on corrosion-resisting, heat-resisting and electrical-resistance alloys at A.S.T.M. 27th annual meeting. Iron Tr R 75:51-2 Jl 3 '24; Chem & Met Eng 31:83-5 Jl 14 '24; Iron Age 114:11-14 Jl 3 '24
Typical analyses of miscellaneous commodities used in foundry practice. J. M. Quinn. Foundry 52:516a, 550a, 602a Jl 1-Ag 1 '24
X-ray analysis of copper-zinc, silver-zinc, and gold-zinc alloys. A. Westgren and G. Phragmén. Philos Mag 6th ser 50:311-41, pl 6-11 Jl '25

See also Acid-resisting materials; Alpax; Aluminum alloys; Amalgams; Babbitt metal; Bearing metals; Brass; Bronze; Copper alloys; Duralumin; Electron metal; Everbrite metal; Gun metal; Iron alloys; Lead alloys; Magnesium alloys; Metallography; Metallurgy; Molybdenum alloys; Monel metal; Nichrome; Nickel alloys; Silicon alloys; Silver alloys; Solder wire; Solutions, Solid; Steel alloys; Stellite; Thermalloy; Tin alloys

Standards

S.A.E. non-ferrous metals division report; wrought non-ferrous metal alloys. Soc Auto Eng J 14:636-7 Je '24

Testing

Endurance of non-ferrous metals. D. J. McAdam, jr. Eng N 94:527 Mr 26 '25
Thermal conductivities of industrial non-ferrous alloys. J. W. Donaldson. diag Engineering 120:311-12 S 4 '25

ALLUVIAL deposits. See Sedimentation and deposition

ALLYL iodide
Studies in the organic polysulphides; the action of anhydrous potassium pentasulphide on allyl iodide and on some aromatic compounds. J: S. Thomas and R: W: Riding. Chem Soc J 125:2214-19 N '24

ALMANACS
Is the advertising almanac passé? B. F. Berfield. Ptr Ink M 10:25+ My '25

ALMSHOUSES

Cost

Cost of American almshouses. E. M. Stewart. U S Bur Labor Statistics Bul 386:1-54 '25

ALPAX
Aluminium alloy alpax. Engineering 119:46-7 Ja 9 '25
Aluminium-silicon alloys. J. B. Swan. il Automobile Eng 14:102-5 Ap '24
Apply patented casting metal. R. De Fleury. Foundry 52:263-6 Ap 1 '24
Cast alpax railway-coach door. il diags Engineering 120:353-4 S 18 '25

ALPHA rays
Capture and loss of electrons by α particles. E. Rutherford. diags Philos Mag 6th ser 47:277-303 F '24
Chemical action of gaseous ions produced by alpha particles; reactions of the oxides of carbon. S. C. Lind and D. C. Bardwell. diags Am Chem Soc J 47:2675-97 N '25
Chemical action produced by radon; revision of the chemical effect of recoil atoms. S. C. Lind and D. C. Bardwell. Am Chem Soc J 46:2003-9 S '24
Nature and origin of alpha-rays. A. F. Kovarik and L. W. McKeehan. Nat Research Council Bul v 10, pt 1:34-73 Mr '25
Number of alpha-particles emitted by radium. V: F. Hess and R. W. Lawson. Philos Mag 6th ser 48:200-7 Jl '24
Optical projection of the tracks of alpha particles. H. T. Pye. il diag J Fr Inst 198: 813-16 D '24
Origin and nature of the long-range particles observed with sources of radium C. E. Rutherford and J. Chadwick. diags Philos Mag 6th ser 48:509-26 S '24
Proposed model for the alpha particle and some nuclear series. R. Hargreaves. Philos Mag 6th ser 50:470-91 Ag '25
Scattering of particles by an Einstein center. W. S. Kimball. Phys R 23:75-84 Ja '24
Tentative theory of the capture and loss of electrons by swift nuclei. R. H. Fowler. Philos Mag 6th ser 47:416-30 F '24
Theory of the decay of alpha ray luminescense. E. E. Witmer. Phys R 24:639-43 D '24
Theory of the range of aplha-particles. L. Loeb and E: Condon. bibliog J Fr Inst 200: 595-607 N '25

ALPHABET

See also Writing

ALPHABETS
The Zanerian manual of alphabets and engrossing. 136p Zaner-Bloser co., Columbus, O. '24

See also Lettering

ALTARS
Recent altars and other accessories. il Arch Forum 40:173-8 Ap '24

ALTERNATING current motors. See Electric motors, Alternating current

ALTERNATING currents. See Electric currents, Alternating

ALTERNATORS. See Electric generators, Alternating current

ALTIMETERS
Aerial depth gages. il Sci Am 133:129 Ag '25
Special F.A.I. altimeter. F. B. Newell. il Aviation 16:590 Je 2 '24

ALTITUDE
Effect of altitude on power-equipment performance. Power 62:139-40 Jl 28 '25
Influence exerted by altitude on apparatus. K. Lubowsky. Elec W 84:109-10 Jl 19 '24

See also California—Altitudes

ALTITUDE records. See Aviation—Altitude records

ALTOONA, Pennsylvania

Rapid transit

No five-cent fare now. Elec Ry J 62:839 N 10 '23

ALUM

Alum agitation studies at Reading, Pennsylvania. C: R. Cox. il Eng N 93:101-4 Jl 17 '24

Alum, an acid in the filtration of activated sludge. F. W. Mohlman. Eng N 91:1015-16 D 20 '23

Alum and alum cake. Chem Age (Lond) 11: sup11 S 20 '24

Alum feeding machine for water treatment. F. M. Veatch. diags plan Eng & Contr (W W) 61:557-9 Mr 12 '24

Alum in beater coloring of sized paper. W. C. Holmes. Am Dyestuff Rep 14:129-30 F 23 '25

Alum in sizing. J. Crolard. Paper 35:667-8 F 5 '25

Alum shortens drying period of Imhoff tank sludge. W. Rudolfs, J: R. Downes and F. L. Campbell. Eng N 91:888-9 N 29 '23

Commercial chemistry. T: H. Norton. Chemicals 24:11 S 21 '25

Composition of alum floc in mixing basin. E: S. Hopkins. Am Water Works Assn J 12: 405-9 D '24

Deposits of magnesia alum near Fallon, Nevada. D. F. Hewett. maps U S Geol S Bul 750—E:79-86 '24

Manufacture of potash and other salts from leucite. J. W. Hinchley. il Soc Chem Ind J (Chem & Ind) 43:161-2 F 15 '24

Meaning of the word alum. A. M. Patterson. J Fr Inst 198:331-2 S '24

Papermakers' alum. G: F. Kennedy. Paper Tr J 81:57-9 Jl 2 '25

Theory of mordants and alumina. W. B. Nelson. Am Dyestuff Rep 13:732-6 N 3 '24

Treatment of sludge with alum. Eng & Contr (W W) 62:1276 D 10 '24

See also Aluminum sulfate

ALUMINA

Adsorption of arsenious acid by hydrous aluminum oxide. J: H. Yoe. Am Chem Soc J 46:2390-7 N '24

Adsorption of some vapors by alumina gel. J. H. Perry. J Phys Chem 29:1462-8 N '25

Adsorption of vapors by alumina. L. A. Munro and F. M. G. Johnson. Ind & Eng Chem 17:88-92 Ja '25

Adsorption of vapors by metallic oxides—its bearing on the catalysis of ester formation. J. N. Pearce and A. M. Alvarado. diag J Phys Chem 29:256-70 Mr '25

Alumina from china clay. Chem Age (Lond) 13:sup11 Jl 18 '25

Aluminum oxide; alumina. Chemicals 24:6-7 Jl 20 '25

Catalytic dehydration of ethyl alcohol and ether by alumina. R. N. Pease and C. C. Yung. diag Am Chem Soc J 46:390-403 F '24

Catalytic preparation of ether from alcohol by means of aluminum oxide. R. H. Clark, W. E. Graham and A. G. Winter. diag Am Chem Soc J 47:2748-54 N '25

Causation of organic reactions by alumina, and theories of catalysis. H. Adkins and B. H. Nissen. diag Am Chem Soc J 46:130-45 Ja '24

Dehydration of alcohols over alumina. H. Adkins and P. P. Perkins. Am Chem Soc J 47:1163-7 Ap '25

Effect of temperature of formation on the physical character of hydrous aluminum oxide. J: H. Yoe. J Phys Chem 29:1419-22 N '25

Equilibrium of the series cryolite-alumina. G. A. Roush and M. Miyake. bibliog Am Electrochem Soc Trans v 48 (preprint 10): 99-103 S '25

Filter plate of great strength. Chem & Met Eng 31:509 S 29 '24

Interaction of sodium chloride and alumina. F. H. Clews. Chem Soc J 127:735-9 Mr '25

Sodium alizarate and alumina. F. S. Williamson. J Phys Chem 28:891-2 Ag '24

Survey of alumina and its peculiarities. il Chem Age (Lond) 11:sup10-11 D 20 '24

Total alumina in water (modified Atack's method) colorimetric determination. F. O. Baldwin. Am Water Works Assn J 12:439-40 D '24

Ueber den einfluss der tonerde und der magnesia auf die chemischen eigenschaften der silikatschlacken. R. Durrer. Stahl & Eisen 45:346-8 Mr 5 '25

See also Corundum

ALUMINA cement. See Cement

ALUMINUM

Absorption of cathode rays in aluminum foil. H. M. Terrill. diag Phys R 24:616-21 D '24

Aluminium. Economist 100:588 Mr 28 '25

Aluminum and aluminum alloys. R. J. Anderson. Brass W 21:13-17 Ja '25

Aluminum and its light alloys. R. L. Streeter and P. V. Faragher. il Mech Eng 47:433-9 sec 2 My '25; Same cond. Engineering 120: 180-2 Ag 7 '25; Discussion. Mech Eng 47: 660-2 Ag '25

Aluminum and some of its physical characteristics. Metal Ind 22:349-51 S '24

Aluminum and titanium as deoxidizers. G: F. Comstock. il Iron Age 114:1477-9 D 4 '24

Aluminum as a material of construction in chemical engineering industries. Chem & Met Eng 30:1022-5 Je 30 '24

Aluminum centennial. J Fr Inst 200:217 Ag '25

Aluminum compounds and the alums. Chemicals 23:11 Je 1; 12 Je 8 '25

Aluminum from clay of low grade. Brass W 21:174 My '25

Aluminium; manufacture, properties, and uses. G. M. Dyson. Chem Age (Lond) 12: sup 41-2 Je 6 '25

Aluminum oxy-acetylene welded chemical equipment. il Chem Age 31:511-12 N '23

Aluminum paint for outside work. J. D. Edwards. Chem & Met Eng 29:927 N 19 '23

Aluminum paint in the factory. J. D. Edwards. Iron Age 115:1715 Je 11 '25; Same. Eng & Contr (Bldgs) 64:483-4 Ag 26 '25

Aluminium, seine erzeugung und verwendung. K. Arndt. il diags Elektrotech Zeit (special no.) 45:2-6 Ag 28 '24

Aluminum solder. Am Mach 61:838 N 27 '24; Discussion. 62:437; 63:236 Mr 12, Ag 6 '25

Aluminum tea kettles. il Metal Ind 22:187-8 My '24

Apparent transmission of low velocity electrons through aluminum foil. H: E. Hartig. diag Phys R 26:221-31 Ag '25

Bauxite and aluminum. J. M. Hill. Eng & Min J 119:95 Ja 17 '25

Bauxite and aluminium. W. G. Rumbold. 110p [bibliog. p. 105-10] J. Murray, London '25

Computing the carrying capacity of aluminum conductors. E. P. Slack. Power 60:689 O 28 '24

Corrosion of aluminum. C: S. Williams. Textile Col 46:701-2 N '24

Current-carrying capacity of solid bare copper and aluminium conductors. S. W. Melsom and H. C. Booth. Inst E E J 62:909-15 N '24

Décomposition catalytique de l'alcool éthylique en présence d'alumine. J. E. Goris. Chimie & Ind 11:449-52 Mr '24

La découverte de l'aluminium. C. Matignon. Chimie & Ind 14:368-70 S '25

La découverte de l'aluminium par Oersted en 1825. C. Matignon and C. Faurholt. Chimie & Ind 13:9-10 Ja '25

Displacement of metals from solutions of their salts by less electropositive elements; the replacement of sodium and potassium by magnesium and aluminum. F. W. Bergstrom. Am Chem Soc J 45:2788-94 D '23

Effect of temperature on the regular reflection of X-rays from aluminum foil. E. H. Collins. diags Phys R 24:152-7 Ag '24

Electric spot welding aluminum or duralumin. J. W. Meadowcroft. Am Mach 61:760 N 13 '24

L'emploi des alliages légers pour les pistons de moteurs à explosion. Génie Civil 84:602-3 Je 21 '24

Fabricating aluminum stills. F. B. Hill. il Chem & Met Eng 29:921-2 N 19 '23

Heating of large steel-cored aluminum conductors. R. J. C. Wood. Am Inst E E J 43: 1021-4 N '24; Discussion. 44:398-9 Ap '25

ALUMINUM—*Continued*

How metals stand up against corrosion. Chem & Met Eng 31:72-4 Jl 14 '24; Excerpts. Brass W 20:271-2 Ag '24

Machining the transmission case of the Mack truck and bus. F. W. Curtis. il diags Am Mach 63:729-33, 765-8 N 5-12 '25

Materials in aircraft construction. L. Aitchison. Roy Aeronautical Soc J 28:234-48 Ap '24; Same abr. Engineering 117:89-91 Ja 18 '24; Discussion. Roy Aeronautical Soc J 28: 248-59 Ap '24

New uses for aluminum. Metal Ind 22:3-4 Ja '24

Orientation of crystals in metal test-pieces subjected to small strains followed by heat-treatment. C. F. Elam. Philos Mag 6th ser 50:517-20 S '25

Oscillograph study of the aluminium valve. F. H. Newman. Philos Mag 6th ser 49:1029-33, pl 11 My '25

Powdered aluminum. T. H. Norton. Chemicals 24:9 N 2 '25

Properties of pure aluminum. J. D. Edwards. Am Electrochem Soc Trans v 47 (preprint 24):267-77 Ap '25

Recrystallization phenomena in aluminum. E. Wetzel. Brass W 20:335-7 O '24

Reported shortage of aluminum in France. Econ W n s 28:839 D 13 '24

La résistivité électrique de l'aluminium commercial. Génie Civil 83:521-2 N 24 '23

Revision of the atomic weight of aluminum: the analysis of aluminum chloride. H: Krepelka. diags Am Chem Soc J 46:1343-51 Je '24

Sheet metal work all aluminum on school. il Sheet Metal Worker 16:337+ Je 19 '25

Soldering aluminum. O. Spengler. Chem Age 32:366 S '24

Some observations on aluminum paints. P. H. Walker and E. F. Hickson. il Chem & Met Eng 31:693-6 N 3 '24

Some special properties of aluminum paint. J. D. Edwards and R. I. Wray. Ind & Eng Chem 17:639-40 Je '25

Spectra of silicon and aluminium. W. C. McQuarrie. Philos Mag 6th ser 50:819-21, pl 28 O '25

Surface treatment of metals with aluminium. J. F. Kayser. il Engineer 139:sup34-7 Mr 27 '25

Tanks for airplanes fabricated from sheet aluminum by welding. D. C. McGiehan. Am Mach 60:406 Mr 13 '24

Thermal expansion of aluminum and various important aluminum alloys. P: Hidnert. il U S Bur Stand Sci Pa 497:697-731 '25; Abstract. J Fr Inst 199:539-41 Ap '25; Summary. Automotive Ind 53:578 O 1 '25

Use of aluminum to prevent steel corrosion. A. V. Farr. Chem & Met Eng 29:1188-9 D 31 '23

Die verwendung des aluminiums für hochspannungsfreileitungen. M. Neustätter. map Elektrotech Zeit (special no.) 45:6-8 Ag 28 '24

Verwendung von aluminium in der elektrotechnik. W. Wunder. il Elektrotech Zeit (special no.) 45:9-10 Ag 28 '24

Die verwendungsgebiete des aluminiums. Elektrotech Zeit 45:440-1 My 1 '24

Vorkommen, gewinnung, eigenschaften und verwendung des aluminiums in der elektrotechnik. W: Wunder. il diags Elektrotech Zeit 45:1109-15 O 16 '24

Welding aluminum. Sheet Metal Worker 14: 827-8 N 23 '23

Welding aluminum castings demands great care. il Foundry 53:231-2 Mr 15 '25

See also Alumina; Bauxite

Analysis

Determination of carbon in aluminum. R. Hahn. Metal Ind 22:318-19 Ag '24

Méthode d'analyse des aluminiums industriels. L. Bertiaux. diags Chimie & Ind 11:40-4 Ja '24

New reagent for aluminum. Am Chem Soc J 47:142-3 Ja '25

Revue de chimie analytique; étude de la précipitation de l'alumine. A. Kling and A. Lassieur. Chimie & Ind 12:1003-6 D '24

Soluble aluminium and the hematoxylin test in filtered waters. W: D. Hatfield. Ind & Eng Chem 16:233-4 Mr '24

See also Aluminum alloys—Analysis

Protection

Corrosion of some cast aluminum alloys and a method of protection. A. C. Zimmerman. il Ind & Eng Chem 17:359-62 Ap '25

Protective coatings for aluminum. C. Commentz. diag Chem & Met Eng 31:698 N 3 '24

Recent observations regarding the corrosion, cleansing, and protection of aluminum. H. A. Gardner. il Mech Eng 46:206-7 Ap '24

Specifications

Proposed revision of specification no. 78 for aluminum sheet and strip. Soc Auto Eng J 14:43 Ja '24

ALUMINUM acetate

Aluminum compounds and the alums. Chemicals 23:11 Je 15 '25

ALUMINUM alkoxides

Alkylation of primary amines with aluminum alkoxides to give secondary amines free from tertiary amines. W. A. Lazier and H. Adkins. Am Chem Soc J 46:741-6 Mr '24

ALUMINUM alloys

L'alférium, alliage léger d'aluminium pour les constructions aéronautique et automobile. Génie Civil 85:608 D 27 '24

Alloying tungsten with aluminum containing ten per cent copper. M. R. Whitmore and F. T. Sisco. il Ind & Eng Chem 17: 15-20 Ja '25

Aluminium alloy pistons for Diesel engines. F. Johnstone-Taylor. Marine Eng 29:397-8 Jl '24

Aluminum-alloy pistons—properties and advantages of these heat resisting alloys. F. A. Livermore. Brass W 21:55-6 F '25

Aluminum alloys for aeroplane engines. F. C. Lea. il diags Roy Aeronautical Soc J 29:338-98 Ag '25

Aluminium amalgam as a reducing agent in the sugar series. D. R. Nanji and F: J. Paton. Chem Soc J 125:2474-6 D '24

Aluminum and aluminum alloys. R. J. Anderson. Brass W 21:13-17 Ja '25

Aluminium and its alloys. Chem Age (Lond) 12:sup43 Je 6 '25

Aluminum and its light alloys. R. L. Streeter and P. V. Faragher. il Mech Eng 47:433-9 sec 2 My '25; Same cond. Engineering 120: 180-2 Ag 7 '25; Discussion. Mech Eng 47: 660-2 Ag '25

Aluminum and non-ferrous alloys. Iron Age 114:1065-6 O 23 '24

Aluminum-silicon alloys. J. B. Swan. il Automobile Eng 14:102-5 Ap '24; Discussion. 14: 170-1, 223-4 Je, Ag '24

Alundur and other alloys. Brass W 20:308 S '24

Cast alloys of aluminium containing small amounts of magnesium. S: Daniels. il Ind & Eng Chem 16:1243-9 D '24

Comparative tensile properties of aluminum alloys. E. H. Dix and A. J. Lyon. il diag Automotive Ind 52:738-40 Ap 23 '25

Contraction of light aluminum alloys. R. J. Anderson. Foundry 51:832a, 872a, 912a, 954a, 990a; 52:24a, 58a O 15 '23-Ja 15 '24

Corrosion of some cast aluminum alloys and a method of protection. A. C. Zimmerman. il Ind & Eng Chem 17:359-62 Ap '25

Data on aluminum alloys for airplane structural work. F. H. Colvin. diags Am Mach 60:235-8 F 14 '24

Hardening aluminum alloys. Brass W 21: 302 S '25

High-strength light alloys. E. Blough. Am Soc T M Pro 24 pt 1:258-64 '24

Historique des alliages légers d'aluminium et état actuel de leur fabrication. L. Guillet. Génie Civil 84:298-303, 319-21, 356-9 Mr 29-Ap 12 '24

ALUMINUM alloys—*Continued*
Improving the properties of aluminum alloy castings. S. L. Archbutt. il diags Engineering 119:336-8 Mr 13 '25; Same. Metal Ind 23:230-4 Je '25; Discussion. Engineering 119:330 Mr 13 '25
Lautal: a new light alloy; abstract. Mech Eng 47:44 Ja '25
Light alloys; a general survey of modern practice. J. B. Swan. il Automobile Eng 14:293-300 O '24; Discussion. L. H. Pomeroy. 15:14 Ja '25
Light alloys for pistons and connecting-rods. L. Aitchison. Automobile Eng 14:148-55 My '24; Same. Automotive Ind 50:924-31, 970-3 Ap 24-My 1 '24; Discussion. Automobile Eng 14:211-12, 223 Jl-Ag '24
Light alloys of aluminium. W. Rosenhain and S. L. Archbutt. il Engineering 117:750-2, 780-2 Je 6-13 '24; Discussion. 117:742 Je 6 '24
List of alloys. W: Campbell. Metal Ind 22: 238-9, 313 Je, Ag '24
Mechanical properties of aluminium-zinc alloys containing cadmium. N. F. Budgen. diag Soc Chem Ind J 43:273-6 Ag 15 '24
Meritorious aluminum alloys. Brass W 21: 105-6 Mr '25
New aluminum-silicon alloys. J. D. Edwards and R. S. Archer. il Chem & Met Eng 31: 504-8 S 29 '24
New developments in aluminum alloys. R. S. Archer and Z. Jeffries. Iron Age 115:666-8 F 26 '25
Normal sand-cast alloys of aluminium containing small amounts of silicon. S. Daniels. il Ind & Eng Chem 17:485-92 My '25
Passification and scale resistance in relation to the corrosion of aluminum alloys. H. L. Callendar. Engineering 120:340-2; Discussion. 331 S 11 '25
Preparation of pure alloys. R. F. Mehl. Am Electrochem Soc Trans v 46 (preprint 2):9-36 O '24
Progress with aluminum alloys. Soc Auto Eng J 17:317 O '25
Properties and structure of some alloys of aluminium-chromium. F. T. Sisco and M. R. Whitmore. il Ind & Eng Chem 17:956-8 S '25
Properties and structure of some alloys of aluminium-copper-tellurium. F. T. Sisco and M. R. Whitmore. il Ind & Eng Chem 16:838-41 Ag '24
Properties of some aluminium alloys; abstracts with discussion. H. Hyman. Engineering 120:330 S 11 '25; Engineer 140:260 S 11 '25
Recent observations regarding the corrosion, cleansing, and protection of aluminum. H. A. Gardner. il Mech Eng 46:206-7 Ap '24
Resistance of various aluminum alloys to salt-water corrosion. D. Basch and M. F. Sayre. il Mech Eng 46:199-201; Discussion. 201-5 Ap '24
Sand-cast aluminum copper-nickel-magnesium alloy. A. J. Lyon and S: Daniels. il Soc Auto Eng J 14:173-81 F '24; Discussion. 14: 431-2 Ap '24
Silicon in aluminium-silicon alloys. J: D. Gat. Ind & Eng Chem 16:959-60 S '24
Smelting secondary aluminum and aluminum alloys. R. J. Anderson. Metal Ind 23:10-12, 368-70 Ja, S '25
S.A.E. non-ferrous metals division report; aluminum alloy specifications. Soc Auto Eng J 14:637 Je '24
Ternary alloy system aluminium-cadmium-zinc. N. F: Budgen. il diags Chem Soc J 125: 1642-60 Ag '24
Thermal expansion of aluminum and various important aluminum alloys. P: Hidnert. il U S Bur Stand Sci Pa 497:697-731 '25; Abstract. J Fr Inst 199:539-41 Ap '25; Summary. Automotive Ind 53:578 O 1 '25
Unit container system of freight handling developed by Mack. il Automotive Ind 52:742-3 Ap 23 '25
Die verwendungsgebiete des aluminiums. Elektrotech Zeit 45:440-1 My 1 '24
X-ray studies of the copper-aluminium alloys; abstract with discussion. E. R. Jette, G. Phragmén and A. F. Westgren. Engineer 137:304 Mr 21 '24; Engineering 117:360-1 Mr 21 '24

See also Alpax; Aluminum bronze; Calorizing; Duralumin; Duralyte

Analysis

Aluminium in alloys. D. H. Brophy. Ind & Eng Chem 16:963 S '24
Determination of aluminum in nonferrous alloys. G. E. F. Lundell and H. B. Knowles. Ind & Eng Chem 17:78-9 Ja '25

Testing

Influence of casting temperature on aluminium alloys. F. H. Hurren. Engineering 117:73-4 Ja 18 '24

ALUMINUM benzoylcamphor
Studies of dynamic isomerism; the mutarotation of aluminium benzoylcamphor. I. J: Faulkner and T: M. Lowry. Chem Soc J 127:1080-5 My '25

ALUMINUM bronze
Composition change recommended by S.A.E. Soc Auto Eng J 16:40 Ja '25
Non-ferrous metallurgy in America; abstracts. W: M. Corse. Iron Age 114:693-4 S 18 '24; Engineering 118:376-7 S 12 '24
Resistance of metals to repeated static and impact stresses. R. R. Moore. il Am Soc T M Pro 24 pt 2:547-73 '24

ALUMINUM chloride
Action of aromatic alcohols on aromatic compounds in the presence of aluminum chloride; condensation of benzyl alcohol and phenol. R. C. Huston. Am Chem Soc J 46:2775-9 D '24
Aluminum chloride; patent. Chem & Met Eng 31:354 S 1 '24
Conductivity of phosgene solutions of aluminium chloride at 25°, 0° and -45°. A. F. O. Germann. diag J Phys Chem 28:1148-54 S '25
Densities of solutions of aluminium chloride in liquid phosgene. A. F. O. Germann. diag J Phys Chem 29:138-41 F '25
New catalytic effects of zinc chloride and aluminium chloride. J. F. Norris. Ind & Eng Chem 16:184 F '24
Properties of phosgene solutions; vapor tension curves of aluminum chloride solution at 0° and at 25°. A. F. O. Germann and G. H. McIntyre. J Phys Chem 29:102-5 Ja '25
Reactions in phosgene solution; formation of chloraluminates. A. F. O. Germann and K. Gagos. diags J Phys Chem 28:965-72 S '24
Revision of the atomic weight of aluminum; the analysis of aluminum chloride. H: Krepelka. diags Am Chem Soc J 46:1343-51 Je '24

ALUMINUM company of America
Aluminum company denies violation of Clayton act. P. Wooton. Eng & Min J 120: 546 O 3 '25

ALUMINUM compounds
Aluminum compounds and the alums. T: H. Norton. Chemicals 23:11 Je 1; 12 Je 8; 11 Je 15; 11 Je 29; 24:11+ Jl 27; 15+ Ag 3; 11+ Ag 10; 11 Ag 24; 15 Ag 31; 11+ S 7; 7 S 14; 11 S 21; 17 S 28; 9+ O 5 '25
Four aluminum mordants for silk. Textile Col 47:584-5 S '25

ALUMINUM cyanide
Reaction between mercuric cyanide and certain metals in liquid ammonia. F. W. Bergstrom. Am Chem Soc J 46:1559-68 Jl '24

ALUMINUM ethoxide
Condensation of aldehydes to esters by alkoxides. W. C. Child and H. Adkins. Am Chem Soc J 47:798-807 Mr '25
Condensation of aldehydes to esters by aluminum ethoxide. W. C. Child and H. Adkins. Am Chem Soc J 45:3013-23 D '23

ALUMINUM founding
Abstracts of papers read at the technical sessions of A.F.A. Metal Ind 23:398-400 O '25; Iron Age 116:1116 O 22 '25; Foundry 53:866-7+ N 1 '25
Aluminum alloy castings from sheet scrap. H. Knerr. il diags Metal Ind 22:481-2 D '24
Aluminium and its alloys. Chem Age (Lond) 12:sup43 Je 6 '25
Aluminum and its light alloys. R. L. Streeter and P. V. Faragher. il Mech Eng 47:433-9 sec 2 My '25; Same cond. Engineering 120: 180-2 Ag 7 '25
Aluminum sterilizing table. W: J. Reardon. diags Metal Ind 22:142 Ap '24
Cast aluminum washer tubs. P. Dwyer. il Foundry 53:556-9+ Jl 15 '25
Casting aluminum cycle parts. H. R. Simonds. il Foundry 52:661-4 S 1 '24
Casting aluminum test bars. W: J. Reardon. Metal Ind 22:194 My '24
Casting and heat treatment of some aluminum-copper-magnesium alloys. S: Daniels, A. J. Lyon and J. B. Johnson. Brass W 20:427-9; 21:9-12 D '24-Ja '25
Casting metals. W: J. Reardon. diags Metal Ind 22:276 Jl '24
Casting temperatures. F. H. Hurren. Engineering 117:73-4 Ja 18 '24
Central European practice; aluminum crankcases molded with chills and lugs. C. Irresberger. il diags Foundry 52:258-62 Ap 1 '24
Conveyor system in aluminum foundry. il Iron Age 114:843-4 O 2 '24
How British cast aluminum. E. H. Tyson. il Foundry 51:905-7 N 15 '23
How Cadillac operates its aluminum shop. il Foundry 53:690-3 S 1 '25
Improving the properties of aluminum alloy castings. S. L. Archbutt. il diags Engineering 119:336-8 Mr 13 '25; Same. Metal Ind 23:230-4 Je '25; Discussion. Engineering 119:330 Mr 13 '25
Make aluminum auto castings. il diag Foundry 53:16-19 Ja 1 '25
Making aluminum pistons in Europe. B. Schapira. il diags Foundry 53:8 Ja 1 '25
Metallurgical requirements of refractories for use in the aluminum industry. R. J. Anderson. Am Cer Soc J 6:1090-3 O '23; Same. Brass W 19:405-6 D '23
Modern automobile foundry practice. P. Pritchard. il Automobile Eng 14:84-7 Mr '24
New nonferrous shop reflects owners' training; Gluntz brass foundry co. il Foundry 53: 318-21 Ap 15 '25
Normal sand-cast alloys of aluminium containing small amounts of silicon. S: Daniels. il Ind & Eng Chem 17:485-92 My '25
Permanent-mold aluminum castings and their field of usefulness. J. B. Chaffe, jr. Am Mach 63:743-4 N 5 '25; Abstracts. Iron Age 116:1116 O 22 '25; Metal Ind 23:399 O '25
Probe aluminum castings with the X-ray. R. J. Anderson. il Foundry 53:606-8 Ag 1 '25; Same. Iron Tr R 77:374-6 Ag 13 '25
Properties and structure of some alloys of aluminum-chromium. F. T. Sisco and M. R. Whitmore. il Ind & Eng Chem 17:956-8 S '25
Study aluminum hard spots. A. J. Lyon. Foundry 52:396-7 My 15 '24

See also Aluminum bronze

ALUMINUM hydroxide
Alumina coagulant for potable water and industrial waste liquors; patent. Chem Age 32:470-1 N '24
Aluminum compounds and the alums. Chemicals 24:9 Jl 6 '25
Behaviour of hydrated aluminium oxide towards dyestuffs. J. K. Wood and A. Wooller. Soc Dyers & Col J 41:47-53 F '25
Further studies of water purification by filters charged with aluminum or ferric hydroxide. H. W. Clark. N E Water Works Assn J 38: 84-93 Mr '24; Same. Eng & Contr (W W) 61:567-71 Mr 12 '24
Hydrogen-ion concentration and soluble aluminium in filter plant effluents. W: D. Hatfield. Am Water Works Assn J 11:554-63 My '24
Properties and uses of colloidal aluminum hydroxide. H. M. Spencer. Chem Age 32:31-3 Ja '24
Soluble aluminium and the hematoxylin test in filtered waters. W: D. Hatfield. Ind & Eng Chem 16:233-4 Mr '24
Stability of colloidal solutions; aluminium hydroxide suspension. K. C. Sen. J Phys Chem 28:1029-35 O '24

See also Diaspore

ALUMINUM industry
Aluminum industry in America. Metal Ind 22:450 N '24
Aluminum industry trend is to the South. Manuf Rec 86:75-7 Ag 28 '24
Aluminum manufactures in the United States in 1923. Econ W n s 28:484 O 4 '24
Aluminum production in the United States in 1924. Econ W n s 29:412 Mr 21 '25; Iron Age 115:836 Mr 19 '25
Case of aluminum; the commercial aspects. R. J. Anderson. Brass W 20:413-15 D '24
Conditions in the German aluminum industry. Econ W n s 28:10-11 Jl 5 '24
Development of the aluminum industry. Can Eng 49:237-8 Ag 18 '25
Marketing aluminum. A. H. Hubbell. Eng & Min J 118:851-2 N 29 '24
Metals in 1924—outlook for 1925. Metal Ind 23:6 Ja '25

ALUMINUM metallurgy
Electrolytic refining of aluminum. F. C. Frary. diag Am Electrochem Soc Trans v 47 (preprint 23):259-66 Ap '25; Same. Chem & Met Eng 32:485-6 My '25
Equilibrium of the series cryolite-alumina. G. A. Roush and M. Miyake. bibliog Am Electrochem Soc Trans v 48 (preprint 10):99-103 S '25
High purity aluminium. Engineer 139:sup77-8 My 29 '25
How aluminum is manufactured. Can Eng 49:483 O 20 '25
Metallurgy of aluminium and aluminium alloys. R. J: Anderson. 913p Baird '25
Separation of aluminum, beryllium and zirconium from their ores. L. Burgess. Am Electrochem Soc Trans v 47 (preprint 15): 173-80 Ap '25
Smelting secondary aluminum and aluminum alloys. R. J. Anderson. Metal Ind 23:10-12, 368-70 Ja, S '25

ALUMINUM oxide. See Alumina; Aluminum hydroxide

ALUMINUM powder
Hazard of flammable dust shown in a recent explosion of aluminum powder. D: J. Price and R. M. Baker. il diags plans Chem & Met Eng 29:878-82 N 12 '23

ALUMINUM silicates

See also Andalusite; Bentonite; Kaolin; Leverrierite; Pyrophyllite; Sillimanite

ALUMINUM sulfate
Alum and alum cake. Chem Age (Lond) 11: sup11 S 20 '24
Aluminum sulfate. T: H. Norton. Chemicals 24:15 Ag 31; 11+ S 7 '25
Studies of equilibrium in systems of the type $Al_2(SO_4)_3$—M″SO_4—H_2O; aluminium sulphate—copper sulphate—water and aluminium sulphate—manganous sulphate—water at 30°. R. M. Caven and T: C. Mitchell. Chem Soc J 127:527-31 Mr '25

See also Alum

Manufacture
Cutting cost with continuous operation; the manufacture of alum. G. E. Walker. flow sheet il diag Chem & Met Eng 31:776-80 N 17 '24

ALUMINUM sulfonates
Colorless fat-splitting reagent. Chem Age 32: 280 Je '24

ALUNDUM
Platinized alundum cathodes in electroanalysis. W. G. France and T. S. Eckert. Ind & Eng Chem 16:802-3 Ag '24

AMALGAMATED clothing workers
Clothing workers—Philadelphia. Monthly Labor R 19:596 S '24

AMALGAMATED press
Amalgamated press (1922), limited, general meeting, London. Economist 101:352-3 Ag 29 '25
Results of the year's activities. Economist 99: 356-7 Ag 30 '24

AMALGAMATION
Centrifugal force and amalgamation. Eng & Min J 117:274-5 F 16 '24
Difficulties of intensive amalgamation. L: M. Kellogg. diags Eng & Min J 117:966-9 Je 14 '24
McBride amalgamation process uses novel machine. J. W. Neill. il Eng & Min J 117: 825 My 17 '24
Treating amalgamation plant scrap. Eng & Min J 120:540, 624, 701-2 O 3, 17, 31 '25

AMALGAMS
Aluminium amalgam as a reducing agent in the sugar series. D. R. Nanji and F: J. Paton. Chem Soc J 125:2474-6 D '24
Barium and strontium amalgam electrodes. P. S. Danner. diags Am Chem Soc J 46: 2385-90 N '24
Cadmium amalgams: properties, preparation and uses. N. F. Budgen. diag Chem Age (Lond) 11:sup42-3 D 6 '24
Electrical conductivity of some dilute liquid amalgams. E. J. Williams. Philos Mag 6th ser 50:589-99 S '25
Large-scale preparation of sodium amalgam in the laboratory. R. R. Read and C. Lucarini. Ind & Eng Chem 17:480 My '25

AMAZON river
Trip down the Amazon river; an account of experiences on the recent Ellsworth expedition. J. T. Singewald, jr. il Eng & Min J 119:18-20 Ja 3 '25

AMAZON valley
Merchandising methods and trade conditions in the Amazon valley. W. L. Schurz. map U S Bur For & Dom Com Trade Information Bul 320:1-11 '25

AMBER
Commercial recovery of fossil gums. W. M. Meyers. Chem & Met Eng 31:617-18 O 20 '24

AMBULANCES
Development of the aerial ambulance. Aviation 18:48 Ja 12 '25
Motor transport in a public medical service. il diags Engineer 139:208-9, 216 F 20 '25

AMERICAN agricultural chemical company
American agricultural chemical 1st 5s, 1928—1st ref. 7½s, 1941. Moody's Inv Serv 17: 179 My 28 '25

AMERICAN and continental corporation
Corporation organized to finance industrial enterprises in Europe. Bankers M 109:939-40 N '24

AMERICAN and foreign power company, inc.
Annual report, 1st, for the year ended Dec. 31, 1924. Comm & Fin Chr 120:3181-2 Je 20 '25

AMERICAN architecture. See Architecture, American

AMERICAN association of advertising agencies
Advertising agents and publishers answer Federal trade commission. Ptr Ink 130:10+ Mr 19 '25
Annual convention, 8th, Chicago, Oct. 16-17. Ptr Ink 129:70+ O 23 '24
Annual meeting, New York city. Ptr Ink 133:57-8+ O 15 '25
Federal trade commission strives to understand advertising; complaints against three advertising and publishing organizations. Ptr Ink 130:17-20+ Ja 1 '25
Trade commission amends charge against A.A.A.A. Sales Management 9:483 O 17 '25
What the American association of advertising agencies does to make advertising scientifically more effective. S. Resor. Ann Am Acad 115:124-9 S '24

AMERICAN association of engineers
American association of engineers. C. E. Drayer. Eng & Min J 116:903-4 N 24 '23
Amplification of ideals and objects. Prof Eng 9:7-8 My '24
Annual convention, 10th, San Francisco, June 11-14. Prof Eng 9:3-31 Jl; 9-13 Ag '24; Eng N 92:1060-2 Je 19 '24
Annual convention, 11th, Orlando, Fla., June 2-5. Eng N 94:980-1 Je 11 '25; Eng & Contr (W W) 64:119 Jl 8 '25
Chapter activities. V. D. Cousins. Prof Eng 9: 19-21 Ag; 15-17+ S '24
Confessions of an active director. Prof Eng 9:8-9 Mr '24
Organization and the engineer. J. B. Wiles. Prof Eng 8:9-10 D '23
Our faith and our principles. W. L. Benham. Prof Eng 8:5-6 D '23
Report of the committee on ways and means. Prof Eng 10:6-14 Mr '25
Year of progress. W. L. Benham. Prof Eng 9:17-24 Je '24

AMERICAN association of ice and refrigeration
Annual meeting, 13th, Washington, March 20-21. Refrig W 59:13-26 Ap '24
Annual meeting, 14th, Washington, D.C., June 9-10. Refrig W 60:15-22 Je '25
Meeting of the directors, Chicago, Dec. 11. Refrig W 60:30-1 Ja '25

AMERICAN association of industrial physicians and surgeons
Address. L. A. Shoudy. J Ind Hygiene 6:169-73 S '24
Annual report of the secretary-treasurer. J Ind Hygiene 6:40-4 My '24

AMERICAN association of oil burner manufacturers. See American oil burner association

AMERICAN association of paper specialty manufacturers
How an association operates; code of practice. Paper 34:343 Je 12 '24

AMERICAN association of petroleum geologists
Annual meeting, 10th, Wichita, Kansas. A. F. Hinton. Nat Pet N 17:53-5 Ap 1 '25
James H. Gardner of Tulsa president of geological association. P. Wagner. Nat Pet N 16:39-40 Ap 2 '24

AMERICAN association of railroad superintendents
Annual convention, 31st, Buffalo, N.Y., June 18-20. Ry Age 76:1813-24 Je 28 '24; Ry R 74:1249-51 Je 28 '24
Annual convention, 32d, Richmond, Va., June 16-19. Ry Age 78:1529-36, 1643-7 Je 20-27 '25; Ry R 76:1133-4 Je 20 '25
Suggestions for improving work, train service and efficiency; report submitted at 1924 convention. Eng & Contr (Ry) 62:855-9 O 15 '24

AMERICAN association of state highway officials
Annual convention, 10th, San Francisco, Nov. 17-20. Eng N 93:874-5 N 27 '24
Convention, New Orleans, Dec. 3-6. Eng N 91:982-4, 991-2 D 13 '23

AMERICAN association of textile chemists and colorists
Annual meeting, 3d, Providence, Dec. 7-8. Am Dyestuff Rep 13:45-68 Ja 28 '24
Annual meeting, 4th, Philadelphia, Dec. 5-6. Textile World 66:3443-4 D 13 '24; Am Dyestuff Rep 13:849-56+ D 29 '24
1924 year book. 210p Howes publishing co., New York '24
Proceedings, April meeting of New England section. Am Dyestuff Rep 14:389-98 Je 15 '25
Summer meeting of southern section, Asheville, N.C. Textile World 68:485-6+ Jl 25 '25

AMERICAN association of woolen and worsted manufacturers
Annual meeting, 17th, New York, Dec. 5. Textile World 64:3433-4+ D 8 '23
Annual meeting, 18th, New York. Textile World 66:3277-82+ D 6 '24
Semi-annual meeting, New York, July 15. Textile World 66:347+ Jl 19 '24

AMERICAN automobile association
A.A.A. urges need for action on national association. Bus Transportation 4:522 O '25
Consolidation of the American automobile association with the National motorists association. Automotive Ind 50:537 F 28 '24
Favors joining A.A.A. C. R. Woods. Bus Transportation 4:396 Ag '25
A national body takes up organization problems; formation of Bus board and the Truck board. E. N. Smith. Bus Transportation 4: 69-71 F '25
No affiliation between the National motor bus association and the American automobile association. Bus Transportation 4:355 Jl '25
Services of the American automobile association. E. N. Smith. Ann Am Acad 116: 269-74 N '24

AMERICAN bank note company
Look at the allegorical lady. J. H. Collins. Burroughs Clearing House 10:21-2+ O '25

AMERICAN bankers' association
Annual convention, 50th, Chicago, Sept. 29-Oct. 2. Am Bankers Assn J 17:191-4+ O '24; Bradstreet's 52:637 O 4 '24; Comm & Fin Chr 119:1588 O 4; 87-186 sec 2 O 18 '24; Bankers M 109:729-67 O 31 '24
Annual convention, 51st, Atlantic City, Sept. 28-Oct. 1. Comm & Fin Chr 121:85-170, 1638-9, 1750-2, sec 2 O 3-17 '25; Am Bankers Assn J 18:187-92 O '25; Bankers M 111:475-83 O '25; Bradstreet's 53:641 O 3 '25
Annual spring meeting of Executive council, Augusta, Ga., April 20-23. Comm & Fin Chr 120:2226-7 My 2 '25
Annual spring meeting of the Executive council, Augusta, Ga., April 27-May 1. Comm & Fin Chr 118:2403-4 My 17 '24
Convention alleged to be facing revolt in ranks—secession from association and from Reserve system said to be possible. Comm & Fin Chr 121:1532 S 26 '25
Regional meetings, New York, April 24-25. Comm & Fin Chr 118:2143-4 My 3 '24

Educational foundation
How the foundation was subscribed. Am Bankers Assn J 18:195-9 O '25; Same abr. Bankers M 111:485-90 O '25

Trust company division
First regional trust company conference. Comm & Fin Chr 117:2617-18 D 15 '23
Third regional trust conference of Pacific coast and Rocky Mountain states. Comm & Fin Chr 121:1177-8 S 5 '25

AMERICAN bar association
Rising tide of crime dealt with at convention. Comm & Fin Chr 119:415-16 Jl 26 '24

AMERICAN boiler manufacturers' association
Annual convention, 36th, Hot Springs, Va., June 9-11. Power 59:1011-12 Je 17 '24
Annual convention, 37th, Glen Springs, Watkins Glen, N.Y., June 1-3. Power 61:922 Je 9 '25,

AMERICAN brake shoe and foundry company
American brake shoe & foundry co. common stock. Moody's Inv Serv 16:288 Jl 24 '24

AMERICAN Brown-Boveri electric corporation
Brown-Boveri arrangements completed. Elec W 86:770-1 O 10 '25; Elec Ry J 66:660 O 10 '25

AMERICAN can company
Outlook for American can analyses favorably. A. Motelle. Annalist 25:382-3 Mr 16 '25
Small industrial plant generates current at low cost; combined heating and generating. il Power 60:754-6 N 11 '24

AMERICAN car and foundry company
Annual report, 25th, for fiscal year ending April 30, 1924. Comm & Fin Chr 118:3213 Je 28 '24
Annual report, 26th, for the year ending April 30, 1925. Comm & Fin Chr 120:3328 Je 27 '25

AMERICAN cast iron pipe company
Industrial democracy in a foundry; the plan devised by John J. Eagan for American cast iron pipe co. P. A. Ivy. Iron Age 115: 1785-6 Je 18 '25; Same. Munic & Co Eng 68:325-8 Je '25

AMERICAN ceramic institute (proposed)
Ceramic institute should be a federation of several specific institutes. R. D. Landrum. Am Cer Soc J (Bul) 7:398-9 O '24

AMERICAN ceramic society
Annual meeting, Atlantic City, Feb. 4-7. Chem & Met Eng 30:266-70 F 18 '24; Iron Tr R 74:493-4 F 14 '24; Brick & Clay Rec 64: 261-9 F 19 '24; Iron Age 113:596-7, 652 F 21-28 '24
Annual meeting, 27th, Columbus, Ohio, Feb. 16-24. Brick & Clay Rec 66:344-56 Mr 3 '25; Iron Age 115:612-14 F 26 '25; Iron Tr R 76:601 F 26 '25
Presidential address—1922. F. H. Riddle. Am Cer Soc J (Bul) 8:44-51 F '25
Presidential address—1923. A. F. Greaves-Walker. Am Cer Soc J (Bul) 8:51-6 F '25
Some of the 1923 workers. Am Cer Soc J (Bul) 7:11-44 Ja '24

AMERICAN chemical society
Abstracts of papers read before gas and fuel section of American chemical society convention. Am Gas J 121:1158 N 8 '24
Classified membership in the A.C.S. F: C. Nonamaker. Chem Age 32:68 F '24
Meeting, 67th, Washington, D.C., April 21-24. Chem and Met Eng 30:658-61 Ap 28 '24; Gas Age 53:605-6 My 3 '24
Meeting, 68th, Ithaca, Sept. 8-13. Oil Paint & Drug Rep 106:19+ S 15; 20+ S 22 '24; Blast F & Steel Pl 12:440, 483 S-O '24; Chem & Met Eng 31:452-6 S 22 '24
Meeting, 69th, Baltimore, April 6-10. Oil Paint & Drug Rep 107:22+ Ap 13 '25; Manuf Rec 87:73 Ap 9; 79-80 Ap 16 '25
Meeting, 70th, Los Angeles, Aug. 3-7. Chem & Met Eng 32:713-14, 753-4 Ag-S '25; Gas Age 56:174 Ag 8 '25
Prospects and retrospects. L. H. Baekeland. Ind & Eng Chem 16:1077-9 O '24
Review of important papers presented before seven of the divisions of the A. C. S. in Washington. Chem & Met Eng 30:707-14 My 5 '24

Dye division
Abstracts of papers presented before the Dye division of American chemical society meeting, Washington, April 21-26. Color Tr J 14:154-7 My '24; Am Dyestuff Rep 13:290+ My 5 '24
Abstracts of papers presented before the Dye division of American chemical society meeting, Baltimore, April 6-10. Am Dyestuff Rep 14:261-3 Ap 20 '25; Color Tr J 16:132-3 My '25

Petroleum division
Petroleum division meeting, Ithaca. Nat Pet N 16:38-9 S 17 '24; Pet Age 14:16-17+ S 1 '24

Rubber division
Meeting, 69th, Baltimore, April 6-10. India Rubber W 72:474-5 My '25

AMERICAN concrete institute
Annual convention, 20th, Chicago, Feb. 25-28. Concrete 24:113-19 Mr '24; Eng N 92:419-20 Mr 6 '24
Annual meeting, 21st, Chicago, Feb. 24-27. Eng N 94:409-10+ Mr 5 '25; Concrete 26: 81-3+ Mr '25
List of members. Am Concrete Inst Pro 21: 622-72 '25

AMERICAN construction council
Annual meeting, 3d, New York, Oct. 2-3. Eng N 93:605 O 9 '24

AMERICAN construction council—*Continued*
Annual meeting, 3d, New York city, October 2-3. D. K. Boyd. Am Inst Arch J 12:488-9 N '24
Construction council policy. Can Eng 45:544 D 4 '23
Joint committee formed by construction and railway representatives. Ry R 76:1031-2 Je 6 '25
Statement issued through council's president. F. D. Roosevelt. Arch Forum 41:67-8 Jl '24

AMERICAN cotton manufacturers' association
Address and reports at 29th annual convention, New Orleans, April 10-11. Textile World 67:2694+ Ap 18 '25
Annual convention, 28th, Atlantic City, May 26-27. Textile World 65:3557-8+ My 31 '24; Manuf Rec 85:73-7 My 29 '24
Annual convention, 29th, New Orleans, April 10-11. Manuf Rec 87:70-5 Ap 16 '25; Textile World 67:2665+ Ap 18 '25; Comm & Fin Chr 120:1962-3 Ap 18 '25
Committee reports at A.C.M.A. convention. Textile World 65:3580+ My 31 '24

AMERICAN cotton oil company
Discussion of American cotton oil 5s, 1931. Moody's Inv Serv 16:359 S 25 '24

AMERICAN cotton shippers' association
Annual convention, 1st, New York, March 27-28. Comm & Fin 14:607 Ap 1 '25

AMERICAN drug manufacturers' association
Annual convention, 13th, New York, April 7-10. Oil Paint & Drug Rep 105:44c-f Ap 14 '24
Annual convention, 14th, New York, April 20-23. Oil Paint & Drug Rep 107:21-2+ Ap 27 '25
Annual meeting, Washington, Dec. 6. Oil Paint & Drug Rep 104:44c D 17 '23

AMERICAN electric power company
Annual report, 25th, 1923. Comm & Fin Chr 118:1282-3 Mr 15 '24

AMERICAN electric railway accountants' association
Annual convention, 27th, Atlantic City, Oct. 4-7. Elec Ry J 64:697-703 O 18 '24
Annual convention, 28th, Atlantic City, Oct. 5-8. Elec Ry J 66:697-703 O 17 '25

AMERICAN electric railway association
Annual convention, Atlantic City, Oct. 6-11. Elec Ry J 64:583-633 O 11 '24; Bus Transportation 3:501-7 N '24
Annual meeting, 44th, Atlantic City, Oct. 5-9. Elec Ry J 66:578-620 O 10 '25; Bus Transportation 4:547-52 N '25
Broadening the American electric railway association's work. J. N. Shannahan. Elec Ry J 65:547-8 Ap 4 '25
Committee appointments for 1924-1925. Elec Ry J 64:918-19 N 29 '24
Managing director appointed for American association; Lucius S. Storrs. Elec Ry J 65:285 F 21 '25
Mid-year meeting, St. Louis, March 4. Elec Ry J 63:363-86 Mr 8 '24
Midyear meeting, Washington, D.C., Feb. 16-17. Elec Ry J 65:286-303 F 21 '25; Bus Transportation 4:141-5 Mr '25
Motor bus activities of the American electric railway association. J. W. Welsh. Bus Transportation 4:72-3 F '25
New name for the American association discussed. H. L. Brown. Elec Ry J 65:416 Mr 14 '25
Report of executive secretary of activity and accomplishments during the year. Aera 13:458-86 O '24
Report of the executive secretary of the activities during the year. Aera 14:468-97 O '25
Year's work reviewed. B. I. Budd. Elec Ry J 64:579-80 O 11 '24; Same. Aera 13:335-9 O '24

Metropolitan section
Organization meeting of the Metropolitan section, New York city, Sept. 23. Aera 13:736-42 N '24; Elec Ry J 64:558-9 O 4 '24

AMERICAN electric railway claims association
Annual meeting, Atlantic City, Oct. 6-10. Elec Ry J 64:683-96 O 18 '24
Annual convention, 44th, Atlantic City, Oct. 5-8. Elec Ry J 66:685-96 O 17 '25

AMERICAN electric railway engineering association
Annual convention, 43d, Atlantic City, Oct. 6-11. Elec Ry J 64:634-52 O 11 '24
Annual convention, 44th, Atlantic City, Oct. 5-8. Elec Ry J 66:621-36 O 10 '25
Committee appointments for 1924-1925. Elec Ry J 64:918-21 N 29 '24

AMERICAN electric railway transportation and traffic association
Annual convention, Atlantic City, Oct. 6-10. Elec Ry J 64:653-64 O 11 '24
Annual convention, Atlantic City, Oct. 5-9. Elec Ry J 66:637-53 O 10 '25

AMERICAN electrochemical society
Annual meeting, 45th, Philadelphia, April 24-26. Chem & Met Eng 30:699-702 My 5 '24; Iron Age 113:1283+ My 1 '24; Metal Ind 22:181-3 My '24
Annual meeting, 46th, Detroit, Oct. 2-4. Iron Age 114:913-14, 959-62 O 9 '24; Chem & Met Eng 31:583-8 O 13 '24
Annual meeting, 47th, Niagara Falls, April 23-25. Iron Age 115:1258-9 Ap 30 '25; Chem & Met Eng 32:495-7 My '25; Brass W 21:168 My '25
Annual meeting, 48th, Chattanooga, Sept. 24-26. Oil Paint & Drug Rep 108:22 S 28 '25; Brass W 21:314-16 S '25; Chem & Met Eng 32:788-90 O '25; Iron Age 116:907-8 O 1 '25; Manuf Rec 88:69-70 O 8 '25; Metal Ind 23:417 O '25

AMERICAN electroplaters' society
Annual convention, 12th, Milwaukee, June 30-July 3. Metal Ind 22:223-7, 265-8 Je-Jl '24; Brass W 20:193-6, 225-31 Je-Jl '24
Annual convention, 13th, Montreal, Canada, June 29-July 2. Brass W 21:197-201, 223-8 Je-Jl '25; Metal Ind 23:221-5, 267-71 Je-Jl '25
Short history of the American electroplaters' society. O. E. Servis. Metal Ind 22:227-8 Je '24

AMERICAN engineering council (formerly Federated American engineering societies)
Aeronautic research to be undertaken by American engineering council. Mech Eng 47:518 Je '25
American engineering council. B. L. Brown. Eng N 92:376 F 28 '24
American engineering council changes. G. S. Williams. Elec W 83:397 F 23 '24
Boston engineers to withdraw from Engineering council. Eng N 92:543 Mr 27 '24
Engineering council alters names at annual meeting. Elec W 83:154 Ja 19 '24; Eng N 92:129 Ja 17 '24
Industrial management and the American engineering council. L. W. Wallace. Ann Am Acad 119:127-33 My '25
Organization plan. Blast F & Steel Pl 12:149 Mr '24; Excerpt. Am Mach 60:308b F 21 '24

AMERICAN engineering standards committee
Advisory committee on standardization. Mech Eng 47:385 My '25
American engineering standards committee reports. Ry R 77:137 Jl 25 '25
A. E. S. C. reports standardization progress. Safety Eng 48:195-8 N '24
Cooperative relations between A.E.S.C. and sponsors. Mech Eng 47:769-70 S '25
Report, 1924. Monthly Labor R 19:708-9 S '24
Report, 1925. Monthly Labor R 21:668-70 S '25
Simplification: achievement and promise. P. G. Agnew. Factory 34:26-7 Ja '25

AMERICAN express company
H. K. Brooks—a pathfinder in advertising. E: Hungerford. Ptr Ink M 8:32-3+ Ja '24

AMERICAN face brick association
Annual convention, Hot Springs, Va., Dec. 2-4. Brick & Clay Rec 65:822-5 D 9 '24
Making a better face brick industry. B. W. Ballou. Brick & Clay Rec 65:904-5 D 23 '24

AMERICAN federation of labor
American federation of labor denounces communist philosophy; rejects proposal to form labor party. Comm & Fin Chr 121:1997-8 O 24 '25
American federation of labor finds Republican and Democratic presidential candidates unacceptable to labor—endorses R. M. La Follette and B. K. Wheeler. Comm & Fin Chr 119:907-10 Ag 23 '24
Analysis of A.F. of L. convention. N. Sargent. Am Ind 24:31-2 N '23
Annual convention, El Paso, November 17-25. Am Ind 25:25 D '24; Monthly Labor R 20:414-17 F '25
Annual meeting, 43d, Portland, Oregon, Oct. 1-12. Monthly Labor R 17:1397-9 D '23
New labor declaration. Nat City Bank p 191-5 N '25
Organized labor looks up; last message of Samuel Gompers. M: Wool. Forbes 15: 393-4 Ja 1 '25

AMERICAN foreign insurance association
American foreign insurance association. H. P. Moore. Spectator 113:50-1 sec 2 Jl 17 '24

AMERICAN foundrymen's association
Annual convention, 29th, Syracuse, Oct. 5-9. Iron Age 116:1034-47 O 15 '25; Am Mach 63:642-3 O 15 '25; Brass W 21:339-43 O '25; Iron Tr R 77:999-1003 O 15 '25; Metal Ind 23:397-408 O '25; Foundry 53:856-88 N 1 '25
List of exhibitors with products shown at 29th annual convention, Syracuse. Iron Age 116:810+ S 24 '25; Iron Tr R 77:805-7+ O 1 '25
1924 meeting of the A.F.A. and the Institute of metals division, A.I.M.E., Milwaukee, Wis., Oct. 11-16. Foundry 52:758-61+, 835-45 O 1, N 1 '24; Am Mach 61:674b-c O 23 '24; Iron Age 114:1053-9, 1104-9 O 23 '24; Iron Tr R 75:1099-1105 O 23 '24; Metal Ind 22:389-94, 433-7 O-N '24; Brass W 20:369-75 N '24

AMERICAN fruit and vegetable shippers' association
Fruit and vegetable shippers favor carriers at 6th annual meeting held at Chicago, Jan. 5-8. Ry Age 76:253-4 Ja 19 '24

AMERICAN furniture mart, Chicago
Office and exhibition building for furniture industry. il diags plan Eng N 93:1033-7 D 25 '24

AMERICAN gas and electric company
Utility is developing a huge interconnected system. P. W. Garrett. map Elec W 84: 1290+ D 13 '24

AMERICAN gas association
A. G. A. holds first board meeting of fiscal year. Am Gas J 119:641+ D 15 '23
Annual convention, 6th, Atlantic City, N.J., Oct. 13-16. Dom Eng 109:47-8 O 25 '24; Gas Age 54:545-52 O 18 '24; Blast F & Steel Pl 12:490-2+ N '24; Chem & Met Eng 31: 703-6 N 3 '24; Gas J (Lond) 168:293-4, 361-2 O 29-N 5 '24
Annual convention, 7th, Atlantic City, Oct. 12-16. Gas Age 56:323-6, 591-618 S 5, O 24 '25; Am Gas J 123:461-8, 470-6 O 17 '25
Commercial section 2d annual sales conference, Lake Mohonk, N.Y. J. R. Jennings. Gas Age 55:817-18 Je 6 '25
The inside story of the American gas association. C: W. Person. il Pub Serv Management 39:103-7 O '25
Mid-winter conference, San Francisco, Jan. 27. Am Gas J 122:113-15 F 7 '25; Gas Age 55:182-3+ F 7 '25
Notes from the papers and reports at Atlantic City convention, Oct. 14-18. Gas J (Lond) 164:524-5, 718-19; 165:35-6, 86, 204-5 N 21, D 12 '23, Ja 2-9, 23 '24

AMERICAN gear manufacturers' association
Annual meeting, 8th, Buffalo, N.Y., April 28-30. Mach 30:685-6 My '24; Am Mach 60:716a-b My 8 '24; Automotive Ind 50:1027-34 My 8 '24; Iron Age 113:1365-7+ My 8 '24; Iron Tr R 74:1247-9 My 8 '24
Annual meeting, 9th, Pittsburgh, May 6-9. Am Mach 62:792a-b My 14 '25; Automotive Ind 52:853-7 My 14 '25; Iron Age 115:1435-9 My 14 '25; Iron Tr R 76:1292-3+ My 14 '25; Mach 31:779-81 Je '25
Semi-annual meeting, Briarcliff Manor, N.Y., Oct. 16-18. Am Mach 61:674a-b O 23 '24; Iron Tr R 75:1108-10 O 23 '24; Mach 31:193-4 N '24
Semi-annual meeting, West Baden, Ind., Oct. 1-3. Am Mach 63:604b-c O 8 '25; Automotive Ind 53:624-7 O 8 '25; Iron Age 116:975-8 O 8 '25; Iron Tr R 77:935-6 O 8 '25; Mach 32:194-7 N '25

AMERICAN grocery specialty manufacturers association
Big advertisers review distribution developments. Ptr Ink 129:103-4+ N 27 '24

AMERICAN ice company
American ice co. convertible 7s, 1939. Moody's Inv Serv 17:156 My 7 '25

AMERICAN institute of accountants
Report of the president of the American institute of accountants. E: E. Gore. J Account 38:321-6 N '24
Report of the president. J: B. Niven. J Account 40:241-7 O '25

AMERICAN institute of actuaries
American institute of actuaries. P. H. Evans. Spectator 113:67 sec 2 Jl 17 '24
Joint actuarial meeting. T: J. V. Cullen. Spectator 113:3-4+ N 13 '24

AMERICAN institute of architects
Annual convention, 57th, Washington, D.C., May 21-23. Am Arch 125:507-22 Je 4 '24; Arch Rec 56:89-92 Jl '24; Arch Forum 41: 44 Jl '24; Same. Eng & Contr (Bldgs) 62: 219-20 Jl 23 '24
Annual convention, 58th, New York, April 20-24. Am Arch 127:401-14, 443 My 6-20 '25; Am Inst Arch J 13:177-87 My '25; Arch Forum 42:277-82 My '25
Conventions, past and future. G. L. Kaufman. Am Inst Arch J 13:213-16 Je '25
Early chapter in Institute history. H. B. Upjohn. Am Inst Arch J 13:264-6 Jl '25
Noctes Manhattanenses; impression of the fifty-eighth annual convention. H. G. Ripley. Arch Rec 57:485-90 Je '25
Proposed new building of the Institute at Washington. plans Am Inst Arch J 12:406-8 S '24
See also Washington, D.C.—Octagon House

Pittsburgh chapter
Portfolio; selection of the best work of the Pittsburgh chapter of the American institute of architects. Arch Rec 58:233-64 S '25

Regional conferences
Locality and humility, the first regional conference of the sixth district. C: H. Whitaker. Am Inst Arch J 11:417-19 N '23

Scientific research department
Scientific research department. N. M. Dunning. Am Inst Arch J 13:130-2, 141-2 Ap '25

AMERICAN institute of banking
Annual convention, 23d, Kansas City, July 13-17. Am Bankers Assn J 18:91-2+ Ag '25; Bankers M 111:249-60 Ag '25
Glimpse into the future of A.I.B. S. I. Miller. il Burroughs Clearing House 8:10-11+ S '24
Student bankers convention; Baltimore meeting, July 15-18. Am Bankers Assn J 17:95-8+ Ag '24

AMERICAN institute of chemical engineers
Annual meeting, 16th, Washington, Dec. 5-8. Chem & Met Eng 29:1072, 1089-96 D 10-17 '23; Iron Tr R 73:1619-20 D 13 '23; Oil Paint & Drug Rep 104:20 D 10 '23; Ind & Eng Chem 16:94-5 Ja '24
Annual meeting, 17th, Pittsburgh, Dec. 3-6. Chem & Met Eng 31:925-9 D 15 '24; Oil Paint & Drug Rep 106:20+ D 15 '24
Chemical history told in correspondence; legality of private control of dissemination of public scientific information. Chem Age 32:1-5 Ja '24

AMERICAN institute of chemical engineers —*Continued*
Officers and members for 1925. 70p Polytechnic institute, Brooklyn, N.Y. '25
Semi-annual meeting, 16th, Denver, July 15-18. Chem & Met Eng 31:140-3 Jl 28 '24
Visit of the American institute of chemical engineers to England. J. W. Hinchley. Soc Chem Ind J (Chem & Ind) 44:789-91 Ag 7 '25

AMERICAN institute of chemists
American institute of chemists. Chem Age 32:69-72 F '24
American institute of chemists; its scope and methods. M. L. Crossley. Chem & Met Eng 32:629-31 Jl '25
Meeting of the New York chapter, June 12. Chem Age 32:275-6 Je '24

AMERICAN institute of electrical engineers
A. I. E. E. and its work. L. W. W. Morrow. Am Inst E E J 44:88-90 Ja '25
Annual convention, Chicago, June 23-27. Elec W 84:5-11 Jl 5 '24; Power Pl Eng 28:776-8 Jl 15 '24
Annual convention, Saratoga Springs, N.Y., June 23-26. Elec W 85:1413; 86:11-20 Je 27-Jl 4 '25; Power 61:1045-7 Je 30 '25; Mech Eng 47:684-6 Ag '25
Fortieth anniversary celebration of the A.I. E. E., Philadelphia, Feb. 4. Am Inst E E J 43:265-76 Mr '24
Midwinter convention, 12th, Philadelphia, Feb. 4-8. il Elec W 83:321-7 F 16 '24; Ry Age 76: 384-6 F 9 '24; Power Pl Eng 28:312-13 Mr 1 '24
Midwinter convention, 13th, New York, Feb. 9-12. Power 61:278-9 F 17 '25; Elec W 85: 391-400 F 21 '25
Pacific coast convention, 13th, Pasadena, Cal., Oct. 13-17. Elec W 84:933-41 N 1 '24; J Elec 53:317-21 N 1 '24
Pacific coast convention, 14th, Seattle, Sept. 15-19. Elec W 86:691-2 O 3 '25; J Elec 55: 237-41 O 1 '25
Second regional convention of the Northeastern district, Swampscott, Mass., May 7-9. Elec W 85:1042 My 16 '25
Spring convention, 3d, Birmingham, Ala., April 7-12. Am Inst E E J 43:471-2 My '24: Elec W 83:761-8 Ap 19 '24
Spring convention, St Louis, April 13-17. Elec W 85:861-4 Ap 25 '25; Power 61:629-31 Ap 21 '25; Power Pl Eng 29:508-10 My 1 '25
Technical committee annual reports 1923-1924. diags Am Inst E E J 43:749-60, 839-57, 966-79, 1083-90 Ag-N '24

AMERICAN institute of mining and metallurgical engineers
Annual field meeting. Eng & Min J 118:630-3, 668-71 O 18-25 '24; Iron Tr R 75:1106-7 O 23 '24
Fall meeting of the Oil and gas division. Casper. A. J. Hazlett. Nat Pet N 17:43-4 S 2 '25
Impressions of the Institute meeting at Salt Lake City. T. A. Rickard. Eng & Min J 120:470-1 S 19 '25
Meeting, 129th, New York, Feb. 18-21. Coal Age 25:320-4 F 28 '24; Eng & Min J 117:331-5 F 23 '24; Oil Paint & Drug Rep 105:19+ F 25 '24
Meeting, 130th, Birmingham, Ala., October 7-17. E. E. Burchard. Manuf Rec 86:59-63 O 30 '24
Meeting, 131st, New York, Feb. 16-18. Eng & Min J 119:343-6 F 21 '25; Iron Age 115:619-20+ F 26 '25; Iron Tr R 76:599-601 F 26 '25; Coal Age 27:317-19 F 26 '25
Meeting, 132d, Salt Lake City, Aug. 31-Sept. 3. Eng & Min J 120:428-32 S 12 '25; Min Cong J 11:495 O '25
Mine engineers inspect big progress in Southland. R. D. Hall. il Coal Age 26:582-7 O 23 '24
Papers and discussions of the Iron and steel division. Iron Age 113:638-42 F 28 '24; Iron Tr R 74:617-18 F 28 '24
Symposium on oil problems at 131st meeting, New York, Feb. 16-18. Oil Paint & Drug Rep 107:20 F 23 '25

Institute of metals division
Institute of metals division annual meeting, New York, Feb. 18-20. Metal Ind 22:95-7 Mr '24
Institute of metals division annual meeting, New York, Feb. 16-17. Iron Age 115:664-6 F 26 '25; Metal Ind 23:95-8 Mr '25
1924 meeting of the A.F.A. and the Institute of metals division, A.I.M.E., Milwaukee, Wis., Oct. 11-16. Metal Ind 22:389-94, 433-7 O-N '24; Iron Age 114:1065-6 O 23 '24

AMERICAN institute of steel construction
Annual convention, 2d, Pittsburgh, Jan. 23-24. Iron Tr R 74:363-4 Ja 31 '24; Iron Age 113:367-70 Ja 31 '24
Annual convention, 3d, French Lick, Ind., Nov. 13-15. Iron Tr R 75:1381-4 N 20 '24; Iron Age 114:1341-3 N 20 '24

AMERICAN international corporation
Report to the stockholders at the annual meeting, April 2, 1924. Comm & Fin Chr 118: 1422-3 Mr 22 '24
Report to the stockholders at the annual meeting, April 1, 1925. Comm & Fin Chr 120: 1482-3 Mr 21 '25

AMERICAN iron and steel institute
General meeting, 25th, New York, May 23. Iron Age 113:1557-60 My 29 '24; Iron Tr R 74:1416-17 My 29 '24
General meeting, 26th, New York, October. Iron Tr R 75:1639-40 D 18 '24
General meeting, 27th, New York, May 22. Am Mach 62:868c My 28 '25; Iron Age 115: 1551-8+ My 28 '25; Iron Tr R 76:1386 My 28 '25; Manuf Rec 87:71-2 My 28 '25
General meeting, 28th, New York, Oct. 23. Iron Tr R 77:1084-90, 1120-1 O 29 '25

AMERICAN iron, steel and heavy hardware association
Annual convention, 15th, Rye, N.Y., May 13-15. Iron Age 113:1517+ My 22 '24
Annual meeting, Detroit. Iron Age 115:1561-4 My 28 '25; Iron Tr R 76:1425-6 My 28 '25

AMERICAN life convention
American life convention. T: W. Blackburn. Spectator 113:39-40+ sec 2 Jl 17 '24
Meeting, New Orleans. Spectator 113:3+, 7-9 O 23 '24

AMERICAN locomotive company
Recent appreciation in the price of shares. Moody's Inv Serv 17:88 Mr 12 '25

AMERICAN malleable castings association
Making a reputation for quality: American malleable castings association. W: C. Lyon. Nation's Business 12:64+ My '24

AMERICAN management association
Annual convention, New York, Jan. 28-30. Am Mach 62:256b F 5 '25; Iron Age 115:403+ F 5 '25; Iron Tr R 76:419-20 F 5 '25
Meeting, Cleveland, Nov. 13-14. Am Mach 61: 828a N 20 '24
Meeting, New York, Oct. 15-16. Iron Age 116: 1100-2+ O 22 '25; Iron Tr R 77:1062 O 22 '25
Work and program of the American management association W. J. Donald. Ann Am Acad 119:140-2 My '25

AMERICAN merchant marine library association
Maintaining a merchant marine library service. C. W. Shattuck. il Marine Eng 29:75-6 F '24

AMERICAN metal company, (ltd.)
American metal company. Eng & Min J 117: 389 Mr 1 '24

AMERICAN mining congress
Annual convention, 27th, Sacramento, Cal., Sept. 29-Oct. 4. Min Cong J 10:381-5, 461-2, 501-18 S-N '24; Coal Age 26:547 O 16 '24; Eng & Min J 118:589-93, 658-9 O 11, 25 '24
Cincinnati meeting. il Coal Age 27:817-43 Je 4 '25
Program for Cincinnati meeting, May 25-29. Coal Age 27:744-6 My 21 '25
Program of annual meeting of Western division to be held at Chandler, Ariz., Nov. 16-19. Min Cong J 11:523-5+ N '25

AMERICAN mining congress—*Continued*
Purposes and achievements of the American mining congress. H. W. Seaman. Min Cong J 10:497-500 N '24
Western division work covers constructive program. Min Cong J 11:510-13 N '25

AMERICAN motion picture corporation
Great work for national betterment. R: W. Edmonds. Manuf Rec 86:97-9 Ag 7 '24

AMERICAN museum of natural history, New York city
New wing, American museum of natural history, New York city. Arch & Bldg 57:37, pl 91-3 Ap '25

AMERICAN museum of safety, New York city
Museum of safety is re-opened. Am Mach 60: 160a Ja 24 '24
New York's safety museum. A. A. Hopkins. il Safety Eng 47:165-7 Ap '24

AMERICAN news company
American news building, New York city. Arch & Bldg 57:25-6+, pl 63-9 Mr '25; Same. Eng & Contr (Bldgs) 63:1137-44 My 27 '25

AMERICAN newspaper publishers' association
Newspaper convention seen through the advertiser's eye. Ptr Ink 127:113-14+ My 1 '24
Thomason re-elected and policies approved. Ptr Ink 131:84-5 Ap 30 '25

Bureau of advertising
Newspaper publishers get a report on advertising. Ptr Ink 131:41-2 Ap 23 '25

AMERICAN nokol company, Chicago
Annual convention, 2d, Chicago. Heat & Ven 22:82-3 N '25

AMERICAN oil burner association
Annual convention, 1st, St Louis, April 1-3. Sheet Metal Worker 15:228-9 Ap 11 '24; Dom Eng 107:41-2+ Ap 12 '24; Nat Pet N 16:20-1 Ap 9 '24; Sanitary & Heat Eng 101:260-1+ Ap 18 '24; Heat & Ven 21:59-63 My '24
Annual convention, 2d, Chicago, April 1-3. Nat Pet N 17:29+ Ap 8 '25; Dom Eng 111:41+ Ap 11 '25; Iron Age 115:1063 Ap 9 '25; Sanitary & Heat Eng 103:276-7+ Ap 17 '25; Sheet Metal Worker 16:172-3+ Ap 10 '25; Heat & Ven 22:77-9 My '25

AMERICAN oil chemists society
Annual meeting, 16th, New Orleans, May 11-12. Oil Paint & Drug Rep 107:22+ My 18 '25
Organization for soap technologists. H. J. Morrison. Chem & Met Eng 32:19 Ja 5 '25

AMERICAN oil men's association
Annual convention, Kansas City, Mo. Pet Age 15:25-6 Ap 1 '25; Nat Pet N 17:36-9 Mr 25 '25
Fall convention, Chicago, Oct. 20-22. Nat Pet N 17:31 O 28 '25; Oil Paint & Drug Rep 108: 21+ O 26 '25
Spring convention, Chicago. R. R. Moore. Pet Age 13:50-1+ Ap 1 '24

AMERICAN paper and pulp association
Annual convention, 47th, New York, April 10. Paper 33:9-14 Ap 17 '24
Annual convention, 48th, New York. Paper Tr J 80:118-27 F 5 '25; Paper 35:10-14 F 12 '25
Organized effort in the paper industry. O. M. Porter. Paper Tr J 81:26+ Jl 23 '25

AMERICAN petroleum institute
Annual meeting, 4th, St Louis, Dec. 11. Nat Pet N 15:68+ N 21 '23; Oil Paint & Drug Rep 104:44g-h D 17 '23; Soc Auto Eng J 14: 86-90 Ja '24
Annual meeting, 5th, Fort Worth, Texas, Dec. 9-11. Am Pet Inst Bul 5:1-11 D 10; 1-6 D 11 '24; Automotive Ind 51:1054-5 D 18 '24; Nat Pet N 16:17-22 D 17 '24; Oil Paint & Drug Rep 106:32a D 15 '24; Soc Auto Eng J 16:4-6 Ja '25

AMERICAN pharmaceutical manufacturers
Annual meeting, 18th, White Sulphur Springs, W. Va., June 22-25. Oil Paint & Drug Rep 107:21 Je 29 '25

AMERICAN photo-engravers association
Annual meeting, 28th, Cincinnati, Ohio, June 26-28. Ptr Ink 128:93-4 Jl 3 '24
Annual convention, 29th, New York, July 16-18. Inland Ptr 75:777-8 Ag '25; Ptr Ink 132: 44 Jl 23 '25

AMERICAN physical society
Minutes of the Washington meeting, April 25 and 26, 1924; and abstracts of papers. Phys R 23:760-87 Je '24

AMERICAN press association
Federal trade commission strives to understand advertising: complaints against three advertising and publishing organizations. Ptr Ink 130:17-20+ Ja 1 '25

AMERICAN public health association
Annual meeting, Detroit, Oct. 20-23. Eng N 93:725 O 30 '24
Annual meeting, St Louis, Oct. 19-22. Eng N 95:729+ O 29 '25

AMERICAN pulp and paper mill superintendents' association
Annual convention, 5th, Dayton, May 22. Paper 34:231-9 My 29 '24
Convention at Niagara Falls. Paper Tr J 80: 27-32 Je 11 '25

AMERICAN radiator company
How American radiator forecasts future sales and advertising. W. Bates. Ptr Ink M 9:17-18+ O '24

AMERICAN radiator company building, New York
American radiator building, New York city. Arch & Bldg 56:113, pl 232-5 D '24
American radiator building, New York city. H. W. Corbett. plans Arch Rec 55:473-7 My '24
American radiator company building, New York. R. M. Hood. Am Arch 126:467-74, pl 161-8 N 19 '24
American radiator co. building, New York; views and plans. Arch Forum 41:pl 43 S '24
Heating, ventilating, electric and elevator equipment for the American radiator building. Am Arch 126:481-2 N 19 '24
New building of American radiator co., New York. il plan Bldg Age 46:114-15 N '24
Structural steel frame of the American radiator building. il diags plans Am Arch 126: 475-80 N 19 '24

AMERICAN railway association
Efficiency program continued by American railway association. Ry R 73:719-20 N 17 '23
Joint meeting with the Association of railway executives, Chicago, May 15. Ry Age 76: 1253-4 My 24 '24

Equipment painting section
Annual meeting, 3d, Chicago, Sept. 2-4. Ry Mech Eng 98:624-9 O '24
Annual meeting, 4th, St Paul, Sept. 14-18. Ry Mech Eng 99:635-8, 693-7 O-N '25

Freight claim division
Annual convention, 33d, New Orleans, April 15-18. Ry Age 76:1029-32 Ap 26 '24; Ry R 74:762-5 Ap 26 '24
Annual meeting, 34th, Kansas City, Mo., May 25-28. Ry R 76:969-71 My 30 '25; Ry Age 78:1397-1401 Je 6 '25

Freight station section
Annual meeting, 5th, Kansas City, Mo., May 19-21. Ry Age 78:1325-7 My 30 '25

Mechanical division
Annual convention, 5th, Atlantic City, N.J., June 11-18. Ry R 74:1120-6, 1197-1204 Je 14-21 '24; Ry Age 76:1437-50, 1547-81, 1623-40, 1671-86 Je 12, 14, 17-18 '24; Am Mach 60:944a-b Je 19 '24
Annual meeting, Chicago, June 16-18. Ry Age 78:1544-93 Je 20 '25; Ry R 76:1131-2+ Je 20 '25; Ry Mech Eng 99:407-48 Jl '25

Purchase and stores division
Annual convention, 5th, Atlantic City, N.J., June 16. Ry R 74:1204-11 Je 21 '24; Ry Age 76:1641-59, 1687-1702 Je 17-18 '24

AMERICAN railway association—Purchase and stores division—*Continued*
Annual convention, 6th, St Louis, May 19-21. Ry Age 78:1275-84 My 23 '25; Ry R 76:929-34+ My 23 '25

Regional advisory boards
See Regional shippers advisory boards

Safety section
Annual meeting, 4th, Salt Lake City, Utah, June 24-26. Ry Age 77:27-9 Jl 5 '24
Annual meeting, 5th, Chicago, April 28-30. Ry R 76:825-6, 834-5 My 2 '25; Ry Age 78: 1151-4 My 9 '25; Nat Safety N 11:43 Je '25

Signal section
Annual convention, 14th, Chicago, March 13-14. Ry Age 76:781-2 Mr 22 '24
Annual meeting, 16th, Chicago, March 12-13. Ry R 76:572-5, 579-80 Mr 21 '25
Stated meeting, 13th, New York, Nov. 14. Ry Age 75:922-4 N 17 '23
Stated meeting, 15th, Swampscott, Mass., Sept. 23-25. Ry R 75:461-3 S 27 '24; Ry Age 77:547-50 S 27 '24
Stated meeting, 17th, West Baden, Ind., Sept. 29-Oct. 1. G: E. Boyd. Ry R 77:515-17, 558-9 O 3-10 '25; Ry Age 79:619-24 O 3 '25

Telegraph and telephone section
Annual convention, Quebec, September 9-11. Ry Age 77:451-2 S 13 '24
Annual convention, New Orleans, Oct. 27-29. Ry Age 79:811-13 O 31 '25

Transportation division
Annual session, Atlantic City, April 30. Ry Age 76:1103-5 My 3 '24
Annual session, Richmond, Va., April 8. Ry Age 78:987-91 Ap 18 '25

AMERICAN railway bridge and building association
Annual convention, 34th, Kansas City, Mo., Oct. 21-23. Ry R 75:616-18 O 25 '24; Ry Age 77:753-8 O 25 '24; Eng N 93:825-6 N 20 '24
Annual meeting, 35th, Buffalo, Oct. 20-22. Ry R 77:623-7, 668-71 O 24-31 '25; Eng N 95:732 O 29 '25; Ry Age 79:765-73 O 24 '25

AMERICAN railway development association
Annual meeting, 16th, Savannah, May 14-16. Ry Age 76:1262 My 24 '24
Annual meeting, 17th, San Antonio, Texas, May 13-15. Ry Age 78:1329-31 My 30 '25
Semi-annual meeting, 15th, Chicago, Dec. 6-7. Ry Age 75:1109-11 D 15 '23
Semi-annual meeting, 16th, Chicago, December 4-5. Ry Age 77:1073-4 D 13 '24

AMERICAN railway engineering association
Annual meeting, 25th, Chicago, March 11-13. Eng N 92:481-3, 491-3, 504 Mr 20 '24; Elec Ry J 63:507-10 Mr 29 '24; Ry R 74:516-22, 569-71 Mr 15-22 '24
Annual meeting, 26th, Chicago, Mar. 10-12. Elec Ry J 65:475-7 Mr 21 '25; Eng N 94: 484-8, 495-6, 552 Mr 19, Ap 2 '25; Ry R 76: 525-33, 564-9 Mr 14-21 '25
Looking back twenty-five years; a short account of the American railway engineering association. Ry R 74:422-7 Mr 8 '24

AMERICAN railway magazine editors' association
Annual fall meeting, Cleveland, Sept. 30-Oct. 1. Ry R 77:559-60 O 10 '25
Annual meeting, Baltimore, May 1-2. Ry Age 78:1159-60 My 9 '25

AMERICAN railway tool foremen's association
Annual convention, 12th, Chicago, Sept. 3-5. Ry Mech Eng 98:621-3, 689-91 O-N '24
Annual convention, 13th, Chicago, September 2-4. Ry Age 79:444 S 5 '25; Ry R 77:345-6 S 5 '25; Am Mach 63:454a-b S 10 '25; Ry Mech Eng 99:639-44 O '25

AMERICAN refactories institute
First technical sessions, New York, Oct. 29. Ifon Tr R 77:1192 N 5 '25
Meeting, 1st, Pittsburgh, April 14. Blast F & Steel Pl 13:214 My '25; Brick & Clay Rec 66:658-9 Ap 28 '25
Refractories institute defined. J. D. Ramsay. Brick & Clay Rec 66:661-2 Ap 28 '25

AMERICAN road builders' association
American good roads congress, 14th, Chicago, Jan. 15-17. Good Roads 56:1-3, 35-40 Ja-F '24; Can Eng 46:179, 187-8 Ja 22-29 '24; Eng & Contr (R & S) 61:5-15 Ja 2 '24; Eng N 92: 147-9 Ja 24 '24
Annual convention, 22d, Chicago, Jan. 5-9. Can Eng 48:153-4 Ja 20 '25; Good Roads 68:47-9 F '25; Eng & Contr (R & S) 63:65-74 Ja 7 '25
Biggest road show depicts advances in road building. O. A. Steller. Munic & Co Eng 68:1-3 Ja '25

AMERICAN rolling mill company
Armco makes a friendly appeal with advertising specialties. B. Chapple. Ptr Ink 131: 141-2 My 14 '25
Every one knows us now; training employees in public speaking. S. Perry. System 48:178-9 Ag '25

AMERICAN school of prehistoric research in Europe
Americans establish traveling school for the study of prehistoric man in Europe. Sci Am 133:52+ Jl '25

AMERICAN short line railroad association
Annual meeting, 11th, San Francisco, Aug. 13-15. Ry Age 77:373-6 Ag 30 '24
Annual meeting, 12th, Miami, Fla., Nov. 4-6. Ry Age 79:856-8 N 7 '25; Ry R 77:716-17 N 7 '25

AMERICAN silver producers' association
Conference, Salt Lake City, Aug. 6-8. A. G. MacKenzie. Min Cong J 10:444-7 S '24
Organization. Comm & Fin Chr 119:1012-13 Ag 30 '24
Organization meeting, Salt Lake City, August 6-8. E. R. Zalinski. Eng & Min J 118:265-6 Ag 16 '24
Problems of American silver producers. W. M. Ferry. Min Cong J 10:536-7+ D '24

AMERICAN smelting and refining company
American smelting and refining co. 1st 6s, 1947. Moody's Inv Serv 17:163 My 14 '25
Annual report, 25th, for 1923. Comm & Fin Chr 118:1158-9 Mr 8 '24; Same. Eng & Min J 117:470 Mr 15 '24
Annual report, 26th, for year ended December 31, 1924. Comm & Fin Chr 120:1224-5 Mr 7 '25
Earned $11,186,990 net in 1924. Eng & Min J 119:415 Mr 7 '25
Facts for the stockholder. Eng & Min J 119: 751 My 2 '25
Report for the first half of 1925. Eng & Min J 120:598 O 10 '25

AMERICAN society for municipal improvements
Annual convention, 29th, Atlanta, Nov. 13-16. Pub Works 54:381-4 D '23
Annual convention, 30th, Boston, Sept. 29-Oct. 2. Eng N 93:593-5, 603-4+ O 9 '24; Pub Works 55:325-8, sup37 O '24
Annual convention, 31st. Des Moines, Oct. 26-29. Eng N 95:767-8 N 5 '25

AMERICAN society for steel treating
Annual convention, 6th, Boston, Sept. 22-26. Blast F & Steel Pl 12:428 S '24; Iron Age 114:625-8, 671-4, 845-54+, S 11, O 2 '24; Am Mach 61:560a-c O 2 '24; Chem & Met Eng 31: 547-8 O 6 '24; Foundry 52:822 O 15 '24; Iron Tr R 75:890-1 O 2 '24
Annual convention and exposition, 7th, Cleveland, Sept. 14-18. Am Mach 63:499-504, 524a-e S 24 '25; Blast F & Steel Pl 13:347-51, 408-9 S-O '25; Iron Age 116:605, 659-65, 805-9+ S 3, 24 '25; Iron Tr R 77:539-49+, 779-82 S 3, 24 '25; Mech Eng 47:916-19 N '25
Meeting, Rochester, N.Y., Jan. 31-Feb. 1. Iron Tr R 74:430-1 F 7 '24; Iron Age 113:432-4 F 7 '24
Sectional meeting, 6th, Moline, Ill., May 22-23. Iron Age 113:1567+ My 29 '24; Iron Tr R 74:1442-3 My 29 '24
Spring meeting, Schenectady, N.Y., May 28-29. Iron Age 115:1634-6 Je 4 '25; Iron Tr R 76:1485 Je 4 '25
Winter sectional meeting, 6th, Cincinnati, Jan. 15-16. Iron Age 115:274+ Ja 22 '25; Iron Tr R 76:294-5 Ja 22 '25

AMERICAN society for testing materials
Annual convention, 26th. T: Nolan. Am Inst Arch J 11:XII+ N '23
Annual meeting, 27th, Atlantic City, June 24-27. Chem & Met Eng 31:8-10 Jl 7 '24; Iron Age 113:1869; 114:11-15+ Je 26-Jl 3 '24; Elec Ry J 64:57-8 Jl 12 '24; Eng N 93:4-8 Jl 3 '24; Foundry 52:552-5 Jl 15 '24; Iron Tr R 75:50-2+ Jl 3 '24; Metal Ind 22: 269 Jl '24; Ry Age 77:25-6 Jl 5 '24
Annual meeting, 27th, Atlantic City, June 24-27; program. Blast F & Steel Pl 12:288-90 Je '24
Annual meeting, 28th, Atlantic City, June 23-26. Iron Age 115:1856; 116:26-9 Je 25-Jl 2 '25; Am Mach 62:1018a-b Je 25 '25; Eng N 95:4-8, 64-6, 185-7, 308-12 Jl 2-9, 30, Ag 20 '25; Iron Tr R 77:41-3 Jl 2 '25; Oil Paint & Drug Rep 107:22 Je 29 '25; Ry Age 79:29-30 Jl 4 '25; Foundry 53:570-2 Jl 15 '25; Metal Ind 23:282-3 Jl '25; Mech Eng 47:686-7 Ag '25
Broadened activities of committee D-13. Textile World 66:2965+ N 22 '24
Committee D-13 first of A.S.T.M. to meet in South; sessions at Greenville, S.C., Oct. 5-6. Textile World 68.2155-8+ O 10 '25
Committee D-13 making progress in new lines; meeting at Atlantic City. Textile World 65:4205+ Je 28 '24
Committee D-13 meets at Atlantic City. Textile World 68:63-4+ Jl 4 '25
Committee D-13 tenth anniversary meeting. Textile World 67:1813-14 Mr 14 '25
Committee D-13 on textile materials, spring meeting, Washington, D.C., March 7-8. Textile World 65:1853-4 Mr 15 '24
Meeting, Philadelphia, Mar. 18-20. Iron Age 115:905-6 Mr 26 '25; Iron Tr R 76:911 Ap 2 '25; Brass W 21:121-3 Ap '25; Foundry 53: 305-6 Ap 15 '25; Munic & Co Eng 68:205-7 Ap '25; Metal Ind 23:140-2 Ap '25
Metal committees 4th session, Cleveland, Oct. 27-29. Iron Tr R 77:1178+ N 5 '25; Iron Age 116:1259-60 N 5 '25
Work of the American society for testing materials with special reference to the petroleum industry. C. L. Warwick. Am Pet Inst Bul 4:89-96 D 31 '23

AMERICAN society of civil engineers
Annual convention, 54th, Pasadena, June 18-21. Eng N 93:31 Jl 3 '24
Annual convention, 55th, Cincinnati. Eng N 94:729-30 Ap 30 '25
Annual meeting, New York, Jan. 16-17. Eng N 92:156-9 Ja 24 '24
Annual meeting, New York, Jan. 21-23. Eng N 94:196-9, 205-6 Ja 29 '25
Fall meeting, Detroit, Mich., Oct. 22-25. Eng N 93:712-15 O 30 '24; Can Eng 47:489-90 N 4 '24
Fall meeting, Montreal, Oct. 14-16. Eng N 95:678-80 O 22 '25
Spring meeting, Atlanta, Ga., April 9-12. Eng N 92:707-8 sec 2 Ap 17 '24
Summer meeting, Salt Lake City, July 8-10. Eng N 95:104-5 Jl 16 '25

AMERICAN society of heating and ventilating engineers
Annual meeting, 30th, New York city, Jan. 22-25. Heat & Ven 21:71-4, 79-83 F '24; Sanitary & Heat Eng 101:91-2+ F 8 '24; Sheet Metal Worker 15:15+ F 1 '24; Dom Eng 106:37-8+ F 2 '24
Annual meeting, 31st, Boston, Jan. 28-30. Dom Eng 110:19-22+ F 7; 21-4 F 21 '25; Heat & Ven 22:69-77 F '25; Power Pl Eng 29:262-3 F 15 '25; Sanitary & Heat Eng 103:78-80+ F 6 '25; Am Soc Heat & V E J 31:175-205 Mr '25
Proceedings of 31st semi-annual meeting, Atlantic City, June 15-17. Am Soc Heat & V E J 31:371-400 Jl '25; Dom Eng 111:41+ Je 27 '25; Sanitary & Heat Eng 103:443 Je 26 '25; Heat & Ven 22:69-74 Jl '25; Sheet Metal Worker 16:413 Jl 3 '25
Semi-annual meeting, Kansas City, June 10-12. Dom Eng 107:32-4+ Je 21 '24; Power 59:1048-9 Je 24 '24; Sanitary & Heat Eng 101:438-9 Je 27 '24; Am Soc Heat & V E J 30:541-58 Jl '24; Heat & Ven 21:59-75 Jl '24
Research laboratory
American society of heating and ventilating engineers; research session. Am Soc Heat & V E J 30:546-52 Jl '24
Plan of procedure for the future conduct of the laboratory. Sanitary & Heat Eng 101:92 F 8 '24; Same. Dom Eng 106:42+ F 2 '24; Same. Heat & Ven 21:71 F '24
Research laboratory goes on. Heat & Ven 22: 69, 73-4 F '25

AMERICAN society of mechanical engineers
Annual meeting, 44th, New York, Dec. 3-6. Am Mach 59:896b-c D 13 '23; Power Pl Eng 27: 1256-9 D 15 '23; Mech Eng 46:35-9 Ja '24; Iron Tr R 73:1615-18 D 13 '23; Iron Age 112: 1521 D 6 '23; Textile World 64:3438-9 D 8 '23
Annual meeting, 45th, New York, Dec. 1-4. Mech Eng 47:63-9+ Ja '25; Am Mach 61: 942a-c D 11 '24; Brass W 20:378-9 N '24; Iron Age 114:1533-6 D 11 '24; Iron Tr R 75:1581-3 D 11 '24; Power 60:924-36 D 9 '24; Power Pl Eng 28:1276-8 D 15 '24
Complete program of the A. S. M. E. convention. Blast F & Steel Pl 13:32-4 Ja '25
Machine-tool meeting of the Chicago section, Chicago, Mar. 11. Iron Age 115:833-5 Mr 19 '25
Meeting, Altoona, Pa., Oct. 5-7. Ry R 77:553-4 O 10 '25; Mech Eng 47:951-3 N '25
Second Power meeting of Chicago section, January 14-15. Power Pl Eng 29:214-16 F 1 '25
Spring meeting, Cleveland, May 26-29. Mech Eng 46:411-16 Jl '24; Am Mach 60:868a-b Je 5 '24; Iron Tr R 74:1514-16 Je 5 '24; Power 59:946-50 Je 10 '24; Power Pl Eng 28:672-4 Je 15 '24
Spring meeting, Milwaukee, May 18-22. Am Mach 62:868-a My 28 '25; Iron Age 115:1590-2 My 28 '25; Iron Tr R 76:1419-24 My 28 '25; Mach 31:784 Je '25; Power 61:883-8 Je 2 '25; Power Pl Eng 29:612-13 Je 1 '25; Mech Eng 47:594-7+ Jl '25
Textile division at Lowell. Textile World 67: 2295-6 Ap 4 '25
Textile division holds annual meeting, New York, Dec. 2. Textile World 66:3285-6, 3445 D 6-13 '24
Transactions index, volumes 1-45 (1880-1923). 222p American society of mechanical engineers, 29 W. 39th st., New York '24

AMERICAN society of refrigerating engineers
Alphabetical and geographical list of members. Refrig Eng 11:30-47 Jl '24
Annual meeting, 19th, New York, December 3-5. Refrig Eng 10:209-24 D '23
Annual meeting, 20th, New York, Dec. 1-3. Refrig Eng 11:209-33 D '24; Power 60:958-9 D 9 '24
Constitution and by-laws and list of members. Refrig Eng 12:20-42 Jl '25
Western meeting, 11th, Cleveland, Ohio, May 27-29. Refrig Eng 10:439-56 Je '24
Western meeting, 12th, Milwaukee, May 20-22. Power 61:888 Je 2 '25

AMERICAN society of safety engineers. See National safety council

AMERICAN society of sales executives
Annual meeting, White Sulphur Springs, W. Va., Oct. 9-11 Ptr Ink 129:108 O 23 '24

AMERICAN society of sanitary engineering
Annual session, 19th, Philadelphia, Sept. 9-12. Dom Eng 108:29-30 S 20 '24; Sanitary & Heat Eng 102:191-3+ S 19 '24
Annual convention, 20th, Decatur, Ill., Sept. 15-18. Dom Eng 112:29-30+ S 26 '25; Sanitary & Heat Eng 104:218-20 O 2 '25

AMERICAN statistical association
Annual meeting, 85th, Washington, D.C., Dec. 27-29, 1923. Am Statis Assn J 19:86-95 Mr '24

AMERICAN sugar refining company
American sugar refining company. Moody's Inv Serv 16:169-72 Ap 24 '24
American sugar refining co. 6s, 1937. Moody's Inv Serv 16:456 D 18 '24
Annual report, 33d, 1923. Comm & Fin Chr 118:1260-1 Mr 15 '24

AMERICAN sugar refining company—*Cont.*
Cancelations; the American sugar refining company. Harvard Business R 2:496-502 Jl '24
Statement to stockholders Dec. 31, 1924. Comm & Fin Chr 120:447 Ja 24 '25

AMERICAN supply and machinery manufacturers' association
Annual convention, Atlanta, May 5-7. Iron Age 115:1419-21 My 14 '25
Convention, Cleveland, May 19-21. Iron Age 113:1570-2+ My 29 '24; Iron Tr R 74:1438-9 My 29 '24

AMERICAN surety company
How the American surety co. creates new customers in a limited field. J. Henle. Ptr Ink M 8:112+ My '24

AMERICAN telephone and telegraph company
Activities of the American telephone and telegraph company. il Ind Eng 82:2-4 Ja '24
American tel. and tel. and its associates. G: C. Cox. Annalist 25:158+ Ja 26 '25
American telephone and telegraph company. Moody's Inv Serv 16:149-52 Ap 10 '24
A.T. & T. seeks no radio monopoly. H. B. Thayer. Pub Serv Management 36:149-50 My '24
Annual report for 1923. Comm & Fin Chr 118:1150-4 Mr 8 '24
Annual report of the directors to the stockholders for the year ending Dec. 31, 1924. Comm & Fin Chr 120:1217-20 Mr 7 '25
Bell telephone system's investment analyzed. Bradstreet's 52:734-5 N 15 '24
Building of the American telephone & telegraph company. K. Clark. il plan Arch Rec 55:81-92 Ja '24
Financial condition. Moody's Inv Serv 17:117-20 Ap 2 '25
Financial history of the American telephone and telegraph company. J. W. Stehman. 339p [bibliog. p. 329-32] Houghton '25
Nearly 300,000 Bell owners. Pub Serv Management 36:126-7 Ap '24
Telephone report shows record earnings. Bradstreet's 52:159 Mr 8 '24

Library
American telephone and telegraph company. M. de J. Cox. Special Lib 16:277-9 O '25

AMERICAN tobacco company
American tobacco company wins resale price verdict. Ptr Ink 133:129-30 N 5 '25

AMERICAN warehousemen's association

Cold storage division
Third eastern regional conference. Refrig W 60:31-4 Ag '25

AMERICAN water works and electric company, inc.
Annual report, 10th, 1923. Comm & Fin Chr 118:1907-8 Ap 19 '24
Capital readjustment. Moody's Inv Serv 17: 3 Ja 2 '25
Plan for unification of electric subsidiaries. Comm & Fin Chr 121:1458-9 S 19 '25

AMERICAN water works association
Aims of Water works association. F. C. Jordan. Can Eng 46:568 My 27 '24; Same. Eng & Contr (W W) 61:1270-1 Je 11 '24
American water works association and the water department. C. B. Jackson. Am Water Works Assn J 13:332-5 Mr '25; Same. Eng & Contr (W W) 63:731-3 Ap 10 '25
Annual convention, 44th, New York, May 19-23. Can Eng 46:557-8+ My 27 '24; Eng & Contr (W W) 61:1095-7, 1268-9 My 14, Je 11 '24; Eng N 92:924-8 My 29 '24; Pub Works 55:197-200, 218-20 Je-Jl '24
Annual convention, 45th, Louisville, April 27-May 1. Eng N 94:771-4, 783 My 7 '25; Can Eng 48:457-62 My 5 '25; Pub Works 56:174-5, sup55-8 My '25
Constitution, list of past presidents, list of officers 1924-1925, list of divisions and sections, list of committees 1924-1925, list of members. Am Water Works Assn J 12:sup 1-107 O '24 [Published annually]
Development program for the American water works association. G: W. Fuller. Am Water Works Assn J 11:696-704 My '24
Report of the Finance committee for the fiscal year ending March 31, 1923. Am Water Works Assn J 10:1088-92 N '23

Canadian section
Annual meeting, 4th, Hamilton, Ont. Can Eng 46:291-6+ Mr 4 '24
Annual meeting, 5th, Montreal. Can Eng 48: 288-93 Mr 10 '25
Constitution revision, Canadian section A.W.W.A. Can Eng 48:277-8 Mr 3 '25

AMERICAN waxed paper association
Wax paper manufacturers form new association. Paper 34:716-17 Ag 7 '24; Same. Paper Tr J 79:29+ Ag 7 '24

AMERICAN welding society
Annual meeting, New York, April 23-26. Automotive Ind 50:1036-7 My 8 '24; Iron Age 113:1281-2 My 1 '24
Annual meeting, New York, April 21-26. Elec Ry J 65:698-701 My 2 '25; Elec W 85: 938 My 2 '25; Iron Age 115:1337+ My 7 '25
Fall meeting, Cleveland, Oct. 30-31. Iron Tr R 75:1246-7 N 6 '24; Iron Age 114:1211-12 N 6 '24
Fall meeting, Cambridge, Mass., Oct. 21-23. Iron Age 116:1179-81+ O 29 '25; Iron Tr R 77:1122-4 O 29 '25

AMERICAN wholesale coal association
Annual convention, 8th, White Sulphur Springs, W. Va., June 3-4. Coal Age 25: 880-1 Je 12 '24
Annual convention, 9th, French Lick, Ind., June 1-2. Coal Age 27:847 Je 4 '25

AMERICAN wood preservers' association
Annual convention, 20th, Kansas City, Jan. 15-17. Ry Age 76:233-5 Ja 19 '24; Ry R 74: 136-7 Ja 19 '24
Annual convention, 21st, Chicago, Feb. 3-5. Ry Age 78:365-8 F 7 '25; Ry R 76:272-5 F 7 '25

AMERICAN woolen company
American woolen company. Moody's Inv Serv 16:233-6 Je 5 '24
American woolen company's silver anniversary. il Textile World 65:1587-91 Mr 1 '24
Annual report, 25th, for 1923. Comm & Fin Chr 118:1162-3 Mr 8 '24
Annual report for 1924. Textile World 67:1378-9 F 21 '25
Humanizing an industry. E. Dakin. il Comm & Fin 13:748-51 Ap 16 '24
Two attractive guaranteed obligations of American woolen company. Moody's Inv Serv 16:344 S 11 '24
W. M. Wood resigns presidency of American woolen company. Comm & Fin 14:25 Ja 7 '25

AMERICAN zinc institute
Annual meeting, 7th, St Louis, April 27-28. Eng & Min J 119:782-3 My 9 '25; Iron Age 115:1335 My 7 '25; Min Cong J 11:310-11 Je '25
What is the zinc institute. S. S. Tuthill. Brass W 20:273-4 Ag '24

AMERICANIZATION
Americanization of miners, and others. T. A. Rickard. Eng & Min J 117:409-10 Mr 8 '24
Immigrant ten years in melting pot. F. B. Pletcher. il Iron Tr R 73:1665-7 D 20 '23
See also Immigrants in the United States

AMES, Iowa

Water supply
Ames, Iowa, water supply. P. F. Hopkins. Am Water Works Assn J 11:472-5 Mr '24

AMIDES
Isomorphism of the amides and substituted amides of dichloro- and chloroiodo-acetic acids, and of chlorobromo- and chloroiodo-acetic acids. P. V. McKie. Chem Soc J 125:1075-9 My '24
Use of the salts of the arylsulphonhalogeno-amides in the estimation and iodination of phenols. E. Roberts. Chem Soc J 123:2707-12 O '23

AMIDINES
Tautomerism of amidines; abstract. F. L. Pyman. Chem Age (Lond) 10:384 Ap 12 '24
Tautomerism of amidines; the alkylation of open-chain amidines. F. L. Pyman. Chem Soc J 123:367-70, 3359-75 F, D '23
Tautomerism of amidines; the methylation of 4(or 5)-nitroglyoxaline and 4(or 5)-phenylglyoxaline. C: E. Hazeldine, F. L. Pyman and J: Winchester. Chem Soc J 125:1431-41 Jl '24

AMIESITE
Amiesite asphalt pavement, hot mix, laid cold. C: A. Mullen. il Can Eng 48:165-8 Ja 27 '25; Same. Good Roads 68:79-82+ Mr '25
Asphalt flooring laid in sub-zero weather. L: Garbi. il Can Eng 48:575-7 Je 16 '25
Laying amiesite pavements, Longueuil. H: Bertrand. il Can Eng 49:317-18 S 15 '25

AMINE oxides
Amine oxides derived from 4-bromodimethylaniline and from 3- or 4-nitrodimethylaniline. L. W. Jones and E. B. Hartshorn. Am Chem Soc J 46:1840-55 Ag '24

AMINES
Action of amines on semicarbazones. F. J. Wilson and A. B. Crawford. Chem Soc J 127:103-9 Ja '25
Action of diacetyltartaric anhydride and chlorofumaryl chloride upon aromatic amines and hydrazines. F: D. Chattaway and G: D: Parkes. Chem Soc J 125:464-70 Mr '24
Addition compounds of hydroquinone with aliphatic amines. R. N. Harger. Am Chem Soc J 46:2536-9 N '24
Alkylation of amines and phenols. Chem Age (Lond) 13:414-15 O 24 '25
Alkylation of primary amines with aluminum alkoxides to give secondary amines free from tertiary amines. W. A. Lazier and H. Adkins. Am Chem Soc J 46:741-6 Mr '24
Arylamine salts of some sulphonic acids of the benzene series. C. N. Keyworth. Soc Chem Ind J 43:341-2 N 28 '24
Arylamine salts of the naphthalenesulphonic acids; the salts of α- and β-naphthalenesulphonic acids. R. B. Forster and C. M. Keyworth. Soc Chem Ind J 43:299-303 O 3 '24
Arylamine salts of the naphthalenesulphonic acids; the salts of 2.6- and 2.7-naphthalenedisulphonic acids. R. B. Forster and C. M. Keyworth. Soc Chem Ind J 43:165-8 My 30 '24
Identification of amines; meta-nitrobenzenesulfonamides. C. S. Marvel, F. L. Kingsbury and F. E. Smith. Am Chem Soc J 47:166-7 Ja '25
Interaction of primary amines and 2-dithiobenzoyl. E. W. McClelland and J: Longwell. Chem Soc J 123:3310-15 D '23
Oxidation of hydroquinone in the presence of aliphatic amines; formation of bis(alkylamino) quinones. R. N. Harger. Am Chem Soc J 46:2540-51 N '24
Rate of diazotization of various amines. M. L. Willard. Textile Col 46:22-3, 164-5 Ja, Mr '24
Reaction of dichloro-acetic acid with aromatic amines. H. W. Doughty. Am Chem Soc J 47:1095-8 Ap '25
Researches on amines; some chemical properties of amino-aceto-phenylanilide. E. B. Kelsey. Am Chem Soc J 46:1693-1700 Jl '24
Steric relations in the acylation of aromatic amines and aminophenols. L. C: Raiford, R. Taft and H. P. Lankelma. Am Chem Soc J 46:2051-7 S '24
Studies in fluorescence spectra; aromatic amine vapours. T: H: Nunan and J. K. Marsh. Chem Soc J 125:2123-8 O '24
Studies relating to metallo-organic compounds; compounds formed between alkyl tin halides and ammonia and the amines. C: A. Kraus and W. N. Greer. Am Chem Soc J 45:3078-83 D '23
Velocity of benzylation of certain amines. D: H: Peacock. Chem Soc J 125:1975-80 O '24

AMINO acids
Amino acid distribution in proteins of wheat flours. R. J. Cross and R. E. Swain. Ind & Eng Chem 16:49-52 Ja '24
Configurational relationships of the sugars, dydroxy acids, amino acids and halogen acids. P. A. Levene. diags Chem R 2:179-216 [bibliog. p. 215-16] Jl '25
Conversion of amino-acids into tertiary amino-alcohols. A. McKenzie and G: O. Wills. Chem Soc J 127:283-95 Ja '25
Evidence of a new amino acid in proteins. R. A. Gortner and W. F. Hoffman. Am Chem Soc J 47:580-4 F '25
Influence of tryptophan and other amino acids upon the stability and enzymic activity of pancreatic amylase. H. C. Sherman, M. L. Caldwell and N. M. Naylor. Am Chem Soc J 47:1702-9 Je '25
Physiological studies on cereals; the occurrence of amino acids and polypeptides in the ungerminated oat kernel. S. L. Jodidi. bibliog J Fr Inst 198:201-11 Ag '24
Use of quinhydrone electrode for the estimation of amino-acids and of acid and basic functions. L. J. Harris. Chem Soc J 123: 3294-3303 D '23
See also Glycine

AMINO-alcohols. See Alcohols

AMINO compounds
Mechanism of the action of amino promoters upon enzymes. E. W. Rockwood. Am Chem Soc J 46:1641-5 Jl '24
Reactions of β,β'-dichloro-ethyl sulfide with amino compounds. W. E. Lawson and E. E. Reid. Am Chem Soc J 47:2821-36 N '25
Reactions of thiocarbonyl chloride; reaction with aromatic primary amino-compounds. G: M. Dyson and H. J: George. Chem Soc J 125:1702-8 Ag '24

AMINOACENAPHTHENE
Studies in the acenaphthene series: 4-aminoacenaphthene. G. T. Morgan and H. M. Stanley. Soc Chem Ind J 43:343-6 D 5 '24
Studies in the acenaphthene series; *o*-aminoacenaphthene. G. T. Morgan and A. D. Sheasby. Soc Chem Ind J 44:408-10 Ag 7 '25
Studies in the acenaphthene series; ω-aminoacenaphthene and further observations on *m*-aminoacenaphthene. G. T. Morgan and H. M. Stanley. Soc Chem Ind J 44:493-6 O 23 '25

AMINOACETOPHENONES
Aminoacetophenones as colour intermediates. G. T. Morgan and J: E. Moss. Soc Chem Ind J 42:461-3 D 7 '23

AMINO-ACETO-PHENYLANILIDE
Researches on amines; some chemical properties of amino-aceto-phenylanilide. E. B. Kelsey. Am Chem Soc J 46:1693-1700 Jl '24

AMINOANTHRAQUINONE
Preparation of 2-aminoanthraquinone from phthalic anhydride and chlorobenzene. M. Phillips. diags Ind & Eng Chem 17:721-5 Jl '25

AMINOARSANILIC acid
Condensation products of amino-arsanilic acid. W. L. Lewis, P. L. Cramer and R. S. Bly. Am Chem Soc J 46:2058-65 S '24

AMINOARYLARSONIC acids
Action of alkyl chlorocarbonates on amino-arylarsonic acids. C. S. Hamilton and C. Sly. Am Chem Soc J 47:435-9 F '25

AMINOBENZOTHIAZOLES
Aminobenzthiazoles; 1-anilino-benzthiazole and its tolyl homologues. R. F. Hunter. Chem Soc J 127:2023-8 S '25

AMINOBENZOYLVALERIC acid
Derivatives of δ-*o*-aminobenzoylvaleric acid. M. J. Paterson and S. G. P. Plant. Chem Soc J 127:1797-9 Ag '25

AMINOCOUMARINS
Diazo-transformations of aminocoumarins and aminonaphthapyrones. B. B. Dey and H. Dalal. Chem Soc J 123:3384-92 D '23

AMINODIMETHYLGLYOXALINE
2-Amino-4:5-dimethylglyoxaline. R: Burtles and F. L. Pyman. Chem Soc J 127:2012-18 S '25

AMINO-ISOBUTYRIC acid
Deaminization of esters of alanine and of amino-*iso*butyric acid. A. L. Barker and G. S. Skinner. Am Chem Soc J 46:403-14 F '24

AMINOLUTIDINE
Synthetical experiments in the naphthyridine groups. J: M. Gulland and R. Robinson. Chem Soc J 127:1493-1503 Jl '25

AMINONAPHTHAPYRONES
Diazo-transformations of aminocoumarins and aminonaphthapyrones. B. B. Dey and H. Dalal. Chem Soc J 123:3384-92 D '23

AMINO-PARA-CYMENE. See Carvacrylamine

AMINO-PARA-XYLENE
Chlorination of 2-amino-para-xylene and certain new azo dyes. A. S. Wheeler and M. Morse. Am Chem Soc J 46:2572-6 N '24

AMINOPHENOLS
p-aminophenol; abstract. G. Poma. Soc Dyers & Col J 40:262 Ag '24
Effect of the acidity of acyl upon the migration from nitrogen to oxygen in ortho-aminophenols. L. C. Raiford and H. P. Lankelma. Am Chem Soc J 47:1111-23 Ap '25
Platinum oxide as a catalyst in the reduction of organic compounds; reduction of aminophenols to cyclic amino-alcohols. H. Heckel and R. Adams. Am Chem Soc J 47:1712-18 Je '25
Solubility of the aminophenols. N. V. Sidgwick and R. K. Callow. Chem Soc J 125: 522-7 Mr '24
Steric relations in the acylation of aromatic amines and aminophenols. L. C: Raiford, R. Taft and H. P. Lankelma. Am Chem Soc J 46:2051-7 S '24
3-nitro-4-hydroxydiphenyl and some of its derivatives. L. C: Raiford and J. C. Colbert. Am Chem Soc J 47:1454-8 My '25

AMINOPHENYLARSINIC acid
Trypanocidal action and chemical constitution; arylamides of *p*-aminophenylarsinic acid. H. King and W: O. Murch. Chem Soc J 125:2595-2611 D '24

AMINOPHENYLSTIBINIC acid
o-amino and *o*-acetaminophenylstibinic acids. A. D. Macallum. Soc Chem Ind J 42:468-71 D 7 '23

AMINOSALICYLIC acid
Electrolytic preparation of *p*-phenylenediamine, aminosalicylic acid, succinic acid, and hydrocinnamic acid. J. F. Norris and E. O. Cummings. Ind & Eng Chem 17:305-7 Mr '25

AMINOSULFONIC acids
Condensation of aromatic aminosulphonic acids with *iso*cyanic acid, phenylcarbimide, and cyanamide. J: R: Scott and J. B. Cohen. Chem Soc J 123:3177-91 D '23

AMMETERS
Cirscale alternating current ammeter. il Engineer 139:279 Mr 6 '25
Copper shunts used with switchboard meters. R. D. Turgeon. il Elec W 84:844 O 18 '24
Increasing accuracy of d.-c. ammeters. W. B. Kirke. il diags Elec W 85:927-8 My 2 '25
Neat and compact ammeter multiplier. G. H. McKelway. il Elec W 83:1285 Je 21 '24
Über die skalengestaltung von strommessern und über einen neuen überstromsicheren strommesser der Hartmann & Braun A. G. F. Voller. Elektrotech Zeit 45:1405-7 D 18 '24; Abstract. Elec W 85:360 F 14 '25

AMMINES
Secondary valence in the light of recent researches; inorganic ammines. G: L. Clark. diag Am J Sci 5th ser 7:1-23 Ja '24
See also Cobalt ammines

AMMONIA
Absorption of ammonia in towers. O. L. Kowalke, O. A. Hougen and K. M. Watson. diags Chem & Met Eng 32:443-6, 506-10 Ap-My '25; Discussion. 32:704-5 Ag '25
Absorption of carbon dioxide and ammonia from gas bubbles. P. G. Ledig. il diags Ind & Eng Chem 16:1231-3 D '24
Acid properties of ammonium salts in liquid ammonia. F. W. Bergstrom. J Phys Chem 29:160-5 F '25
Action of ammonia and of a solution of potassium amide in liquid ammonia on certain halides of molybdenum and tungsten. F. W. Bergstrom. diag Am Chem Soc J 47:2317-23 S '25
Ammonia and ammonium salts in bleaching and dyeing. A. J. Hall. Am Dyestuff Rep 12:908-10+ D 17 '23
Ammonia equilibrium. A. T. Larson and R. L. Dodge. diag Am Chem Soc J 45:2918-30 D '23
Ammonia equilibrium at high pressures. A. T. Larson. Am Chem Soc J 46:367-72 F '24
Ammoniacal liquor for softening water; abstracts. Chevalet. Gas J (Lond) 163:735 S 12 '23; Am Gas J 119:634+ D 15 '23
Catalytic alkylation of ammonia. A. B. Brown and E. E. Reid. J Phys Chem 28: 1067-76 O '24
Catechism of central station gas engineering in the United States. diag Am Gas J 120:371-4, 393 Ap 19-26 '24
Caution needed in handling ammonia under high pressure. Power Pl Eng 29:603, 710 Je 1, Jl 1 '25
Concentration of ammonia in a compressed mixture of hydrogen and nitrogen over liquid ammonia. A. T. Larson and C: A. Black. Am Chem Soc J 47:1015-20 Ap '25
Detection of methylamine in presence of excess of ammonia. P. A. Valton. Chem Soc J 127:40-1 Ja '25
Deterioration of some metals in hot, reducing ammonia gases. J. S. Vanick. il Am Soc T M Pro 24 pt 2:348-72 '24
Electronegative potential series in liquid ammonia. F. W. Bergstrom. Am Chem Soc J 47:1503-7 Je '25
Explosion of ammonia with carbon monoxide and oxygen. J: W. Beeson and J. R. Partington. diag Chem Soc J 127:1146-50 My '25
Explosion of ammonia with electrolytic gas and oxygen. J. R. Partington and A. J: Prince. Chem Soc J 125:2018-25 O '24
Freezing point curve of the system water-ammonia. L: D. Elliott. J Phys Chem 28: 887-8 Ag '24
Future sources of potash and ammonia. J. W. Turrentine. Chem & Met Eng 32:284 F 16 '25
Heat transfer in cast iron radiator sections for ammonia. H. J. MacIntire. il Refrig Eng 11:195-7; Discussion. 197-9+ D '24
Impact experiments in compound gases; ammonia. A. T. Waldie. diags J Fr Inst 200: 507-18 O '25
Interference of ammonia with the hypochlorite reaction for aniline. E. S. West. Ind & Eng Chem 16:1270-1 D '24
Ionisation of aromatic nitro-compounds in liquid ammonia. M. J. Field, W: E: Garner and C. C. Smith. Chem Soc J 127:1227-37 Je '25
Liberation of carbon dioxide, ammonia and amino nitrogen from casein by acid hydrolysis. M. S. Dunn. Am Chem Soc J 47: 2564-8 O '25
Limits for the propagation of flame at various temperatures in mixtures of ammonia with air and oxygen. A. G. White. Refrig Eng 12:92-4 S '25
Molecular lowering of the freezing point of liquid ammonia. L: D. Elliott. charts diags J Phys Chem 28:611-35 Je '24
New determination of the specific gravities of solutions of ammonia. N. J. Price and C. S. L. Hawkins. diag Soc Chem Ind J 43:113-17 Ap 25 '24; Abstract. Chem Age (Lond) 10:217 Mr 1 '24
Odorous constituents of the cotton plant; emanation of ammonia and trimethylamine from the living plant. F: B. Power and V: K. Chestnut. Am Chem Soc J 47:1770-4 Je '25
Origin of ammonia. A. Miller. Refrig W 60: 16 O '25
Potassium ammono-aluminate, potassium ammonomanganite and manganous amide. F. W. Bergstrom. diags Am Chem Soc J 46: 1545-58 Jl '24

AMMONIA—*Continued*
Production, sale and consumption of by-product ammonia. H. A. Curtis. Gas Age 56:455-6+ O 3 '25; Same. Chemicals 24:11-12 O 26 '25
Properties of aqua ammonia. T: A. Wilson. diags Refrig Eng 10:248-52 Ja '24
Reaction between aromatic aldehydes and phenanthraquinone in presence of ammonia. A. C. Sircar and N. C. G. Ray. Chem Soc J 127:1048-9 My '25
Reaction between mercuric cyanide and certain metals in liquid ammonia. F. W. Bergstrom. Am Chem Soc J 46:1559-68 Jl '24
Reaction between potassium amide and certain salts of cobalt and iron in liquid ammonia. F. W. Bergstrom. Am Chem Soc J 46:2631-6 D '24
Reactions of compounds of triphenylmethyl and triphenylsilicyl in liquid ammonia. C: A. Kraus and R. Rosen. Am Chem Soc J 47:2739-48 N '25
Reactions of strongly electropositive metals with organic substances in liquid ammonia solution; the synthesis of oxygen and sulfur ethers and of alkyl derivatives of ammono acids. G: F. White, A. B. Morrison and E. G. E. Anderson. Am Chem Soc J 46:961-8 Ap '24
Reduction of metals from their salts by means of other metals in liquid ammonia solution. C: A. Kraus and H. F. Kurtz. Am Chem Soc J 47:43-60 Ja '25
Report of the sub-committee on cooperative tests of ammonia liquors and materials. Am Gas Assn Technical sec v 5:1159-61 '23
Simple ammonia purifier proves effective. A. G. Solomon. diag Power Pl Eng 28:446-7 Ap 15 '24
So-called metal ammoniums; the vapor pressures of solutions of lithium in liquid ammonia. C: A. Kraus and W. C. Johnson. Am Chem Soc J 47:725-31 Mr '25
Solubilities of sulfur dioxide and ammonia in water. T. K. Sherwood. bibliog Ind & Eng Chem 17:745-7 Jl '25
Solubility of a mixture of hydrogen and nitrogen in liquid ammonia. A. T. Larson and C: A. Black. diags Ind & Eng Chem 17: 715-16 Jl '25
Some economic aspects of ammonia oxidation. G. B. Taylor. Am Inst Chem Eng Trans v 14:59-65; Discussion. 65-6 '21-'22
Sorption of ammonia and carbon dioxide by glass. D. H. Bangham and F. P. Burt. J Phys Chem 29:113-29 F '25
Specific heat of superheated ammonia vapor. N. S. Osborne and others. il diag U S Bur Stand Sci Pa 501:65-110 '25; Same. Refrig Eng 10:145-68 N '23; Abstract. Mech Eng 46: 50 Ja '24
Specific volume of superheated ammonia vapor. C. H. Meyers and R. S. Jessup. il diag Refrig Eng 11:345-50; Discussion. 350+ Ap '25
Studies relating to metallo-organic compounds; compounds formed between alkyl tin halides and ammonia and the amines. C: A. Kraus and W. N. Greer. Am Chem Soc J 45:3078-83 D '23
Temperature control in ammonia oxidation. G. A. Perley and R. P. Smith. Ind & Eng Chem 17:258-60 Mr '25
Thermal decomposition of ammonia upon various surfaces. C. N. Hinshelwood and R. E. Burk. Chem Soc J 127:1105-17 My '25
Total and partial vapor pressures of aqueous ammonia solutions. T: A. Wilson. diags Ill U Eng Exp Sta Bul 146:1-48 '25
Treatment of effluent spent liquors from the distillation of ammoniacal liquor. T. L: Bailey. Gas J (Lond) 167:324-5, 451-2, 586-7; 171:282-5 Jl 16, 30, Ag 13 '24, Jl 29 '25
Using the mixture method in measuring flow of gases. C: P. Turner and B. W. Winship. il plan Chem & Met Eng 30:633-5 Ap 21 '24

Analysis

Determination of mineral and organic ammonia in fertilizers. F. B. Carpenter and H. L. Moxon. Ind & Eng Chem 17:265-6 Mr '25

Manufacture

American process for nitrogen fixation. diags Chem & Met Eng 30:948 Je 16 '24; Same. Chem Age (Lond) 11:7 Jl 5 '24
Ammonium chloride and soda ash production in connection with ammonia synthesis. flowsheet Chem Age 32:122-3 Mr '24
British interest in the Casale ammonia process. Chem Age (Lond) 12:450-1 My 9 '25
By-product sulphate of ammonia manufacture. P. Heigham. Chem Age (Lond) 10: 669-70 Je 28 '24
Catalyst bombs for synthetic ammonia production. E. K. Scott. diags Chem Age (Lond) 10:482-3 My 10 '24
Catalyst testing—the basis of new industries. D. H. Killeffer. il Ind & Eng Chem 17:789-92 Ag '25; Same, without il. Chem Age (Lond) 13:192-4 Ag 22 '25
Comment j'ai réalisé la synthèse de l'ammoniaque par les hyperpressions. G. Claude. il diags Chimie & Ind 11:1055-66 Je '24
Design and working of ammonia stills. P. Parrish. 300p Ernest Benn, ltd., London; Review by G. Weyman. Gas J (Lond) 167: 696-7 Ag 27 '24
Direct synthetic ammonia plant. F. A. Ernst, F. C. Reed, and W. L. Edwards. diags Ind & Eng Chem 17:775-88 Ag '25
Du Pont company to produce synthetic ammonia on large scale in Virginia. G: Garner. Manuf Rec 87:75-6 F 19 '25; Same. Chem Rec Age 23:9 Mr 23 '25
Effluents from ammonia plants and their disposal. T. L. Bailey. bibliog Soc Chem Ind J (Chem & Ind) 44:835-45 Ag 21 '25; Abstract, with discussion. Gas J (Lond) 171: 385-6 Ag 12 '25
European efforts to increase ammonia recovery. C. H. S. Tupholme. Chem & Met Eng 32:360-1 Mr '25
La fabrication de l'ammoniaque. C: Lormand. Chimie & Ind 11:1001-2 My '24
La fabrication de l'ammoniaque synthétique par le procédé Haber-Bosch. J. Carlioz. Chimie & Ind 11:170-5 Ja '24
Haber process of ammonia synthesis. Sci Am 130:40 Ja '24
Hydrogen for synthetic ammonia production; electrolytic plant for Italian works. il Chem Age (Lond) 12:244-5 Mr 14 '25
Improvements in Casale process for ammonia synthesis. diag Chem & Met Eng 30:198 F 4 '24
Increasing ammonia production with improved catalysts. A. T. Larson. Ind & Eng Chem 16: 1002-4 O '24; Same. Chem Age (Lond) 11: 463-4 N 8 '24
Manufacture of synthetic ammonia. R. J. Quinn. Refrig W 60:19 My '25
Manufacture of synthetic ammonia. E. K. Scott. Soc Dyers & Col J 41:87-93; Discussion. 93-4 Mr '25
New ammonia catalyst. Sci Am 131:173 S '24
New catalyst developed by United States chemists; nitrogen production on large scale. C. E. Williams. il Manuf Rec 85: 69-70 Mr 20 '24
New method of feeding lime to ammonia stills. J: S. Unger. il Gas Age 53:790 Je 7 '24
Nitrogen from coal. H. A. Curtis. Chem & Met Eng 30:749-52 My 12 '24; Same. Gas Age 54:147-50 Ag 2 '24
Production of nitrogen and hydrogen for synthetic ammonia manufacture. H. S. Taylor. flow sheet diags Am Inst Chem Eng Trans v 14:45-56; Discussion. 56-7 '21-'22
La rectification sous pression partielle et son application à la production de mélanges d'azote et d'hydrogène propres à la fabrication de l'ammoniaque synthétique. Kaltenbach. diags Soc Ing Civils Bul 76:909-31 Jl '23
Die synthese des ammoniaks nach Claude. H. Salmang. diags Zeit Ver Deutsch Ing 69: 753-5 My 30 '25
Synthetic versus by-product ammonia in Europe. C. H. S. Tupholme. Can Chem & Met 9:131-3 Je '25

AMMONIA—*Continued*

Tables

Ammonia tables versus pv^n=constant for theoretical calculations of ammonia compression. C. S. Cragoe. Refrig Eng 11:62-4 Ag '24

Forms of ammonia tables and charts. Refrig Eng 11:61+ Ag '24

Using the ammonia tables of the Bureau of standards. J: E. Starr. Power 60:92-3 Jl 15 '24

AMMONIA compressors

Ammonia compressor capacity depends on pressures. Power Pl Eng 29:210-11 F 1 '25

Commercializing the small synchronous motor for direct connection to compressors. T. Schou. il diags Refrig Eng 12:47-52; Discussion. 52 Ag '25

Compressor capacity from indicator cards. G. A. Robertson. Refrig Eng 11:155-6 O '24

Development of the two-stage ammonia compressor in the United States; abstract. N. H. Hiller. Refrig W 59:27 Ag '24

Different drives for refrigerating machines. T. Mitchell. il Power 62:287-9 Ag 25 '25

Effect of compound compression of ammonia. J: E. Starr. Power Pl Eng 28:445-6 Ap 15 '24

Flywheel problem in compressors direct connected to synchronous motors. A. R. Stevenson, jr. il Refrig Eng 11:123-40 O '24; Same (without appendix). Gen Elec R 28:580-5, 731-8 Ag, O '25; Discussion. Refrig Eng 11: 140-2 O '24

Flywheel requirements for unbalanced air and ammonia compressors. C. W. Cutler. il Refrig Eng 12:75-84; Discussion. 84-7 S '25

General engineering exhibits at British Empire exhibition. il diags Engineer 138:178-9 Ag 15 '24

Gift of extra compressor capacity. G. Grow. diags Power 59:723-4 My 6 '24

High revolution compressors for marine refrigeration. E. Markham. Refrig Eng 12: 111-16 O '25

Increasing speeds of ammonia compressors. J. H. H. Voss. Power 59:249-50 F 12 '24

Kleinkältemaschinen mit drehkolbenkompressoren. R. Plank, M. Krause and W. Tamm. diags Zeit Ver Deutsch Ing 69:393-7, 477-81 Mr 28, Ap 11 '25

Motor drive for ammonia compressors. P. Schlingman. diag Power Pl Eng 28:961-3 S 15 '24

Multiple effect compression vs. a low and a high back pressure compressor. G. T. Voorhees. Refrig Eng 12:99-100 S '25

New French ammonia compressor. diag Refrig Eng 11:117-18 S '24

Performance of single acting simple ammonia compressor, and tubular condensers. G: A. Horne. il Refrig Eng 8:143-51 N '22; Abstract. Mech Eng 45:129-30 F '23; Discussion. Refrig Eng 10:14-21, 237-41 Jl, D '23

Pressure-total heat diagrams for ammonia. G. A. Robertson. Power Pl Eng 29:910-13 S 1 '25

Refrigerating plant with high-speed ammonia compressors. il diags Engineering 117:42-3, 50 Ja 11 '24

Report of committee on synchronous motor design for compressors. Refrig Eng 10:215-16; Discussion. 216-18 D '23

Rotary piston compressors. R. Plank, M. Krause and W. Tamm. diags Mech Eng 47: 927 N '25

Sleeve valve compressor. diag Refrig Eng 11: 448 Je '25

Specifications covering the design of synchronous motors for direct connection to ammonia compressors. Refrig Eng 10:444-5 Je '24

Synchronous motor drives in ice and refrigerating plants. T. Hibbard. Refrig Eng 11:392-8 My '25; Abstract. Refrig W 59: 27-8 Ag '24

Lubrication

Lubrication of ammonia compressor cylinders. R. J. Nadherny. il diag Power Pl Eng 29: 964-5 S 15 '25

Repair

How and when to rebore ammonia compressor and steam engine cylinders. C. E. Anderson. Power 59:826 My 20 '24

Overhauling and repairing of compressors. J: W. Neff. Refrig W 60:19-20 Ag '25

Steps in overhauling an ammonia compressor. J. F. Staley. Power Pl Eng 29:153-5 Ja 15 '25

Testing

Tests on a rotary ammonia compressor. H. I. Macintire. diags Refrig Eng 11:325-9; Discussion. 329-30 Mr '25

Valves

Valves for ammonia compressors. H. J. Macintire. diags Power 59:679-80 Ap 29 '24

AMMONIA condensers

Ammonia condensers. N. H. Hiller. diags Refrig Eng 11:398-400 My '25; Same abr. Power 61:103-5 Ja 20 '25

Heat transfer in ammonia condensers. Power 59:919 Je 3 '24

High condenser increases the power consumption of refrigeration machines. A. W. Farrall. Power 60:10-11 Jl 1 '24

Low condenser pressure aids ice plant operation. A. G. Solomon. Power Pl Eng 29: 447 Ap 15 '25; Discussion. A. K. Vradenburgh. 29:604-5 Je 1 '25

Operation of ammonia condensers. H: J. Halterman. Refrig W 60:21-3 S '25

Shell and tube type ammonia condensers, design and methods of construction. L. H. Burkhart. il diags Refrig Eng 12:1-4 Jl '25; Same. Power 62:52-4 Jl 14 '25; Same abr. Refrig W 60:20-2 Jl '25; Discussion. Refrig Eng 12:4+ Jl '25

Spray cooling systems for ammonia condensers. C. R. Kranz. diag plan Power Pl Eng 29:1015 O 1 '25

Water supply to ammonia condensers. R. Tullis. Power 61:344 Mr 3 '25; Discussion. C: B. Rodgers. 61:1041 Je 30 '25

Welding aids builders of ammonia equipment. L. H. Burkhart. il diag Power Pl Eng 29: 1109-10 N 1 '25

Testing

Investigations of ammonia condensers. T. Shipley. diags Power 59:364-7 Mr 4 '24; Same cond. Refrig Eng 10:375-7 Ap '24

Tests on flooded atmospheric type ammonia condenser. Refrig Eng 10:282-3 Ja '24

AMMONIA pipe lines. See Piping (refrigerating plants)

AMMONIA-SODA process. See Sodium carbonate

AMMONIA tanks

Repair

Repairing an ammonia tank by use of a cement gun. il Gas Age 54:772 N 29 '24

AMMONIATES

Waste sulphite liquor for deodorizing and preserving ammoniates. Chem Age 32:203 Ap '24

AMMONITES

Discovery of prosiphon in cretaceous ammonites from California, with remarks upon the function of the organ. C. H. Crickmay. diags Am J Sci 5th ser 9:229-32 Mr '25

AMMONIUM carbamate

Ammonium carbamate equilibrium. T. R. Briggs and V. Migrdichian. diag J Phys Chem 28:1121-35 N '24

AMMONIUM chloride

Ammonium chloride and soda ash production in connection with ammonia synthesis. flowsheet Chem Age 32:122-3 Mr '24

Effect of ammonium chloride upon the growth of yeast and the hydration of gluten in beer wort. E. I. Fulmer, F. F. Sherwood and V. E. Nelson. Ind & Eng Chem 16:921 S '24

Intermittent immersion test as an aid in evaluating zinc coats plated on iron and steel. F. F. Farnsworth and C. D. Hocker. il diag Am Electrochem Soc Trans v 45: (preprint 14):189-201 Ap '24

AMMONIUM chloride—*Continued*
Solubility of atmospheric gases in solutions of ammonium chloride. J. H. Coste and E. R. Andrews. J Phys Chem 28:285-6 Mr '24
Some chemical deposits of a regular form. J. M. Mullaly. Philos Mag 6th ser 49:1222-5 Je '25

AMMONIUM compounds
Acid properties of ammonium salts in liquid ammonia. F. W. Bergstrom. J Phys Chem 29:160-5 F '25
Ammonia and ammonium salts in bleaching and dyeing. A. J. Hall. Am Dyestuff Rep 12:908-10+ D 17 '23
Formation of quaternary ammonium salts. E: de B. Barnett, J. W. Cook and W: C: Peck. Chem Soc J 125:1035-40 My '24
Further study of the neutral ammonium salts of some organic acids and their substituted derivatives. L. McMaster and P. K. Pratte. Am Chem Soc J 45:2999-3001 D '23
Strength of trimethylamine oxide and trimethyl alkoxyl ammonium hydroxides as bases; the structure of ammonium compounds. T. D. Stewart and S. Maeser. Am Chem Soc J 46:2583-90 N '24
Velocity of reaction in mixed solvents; the velocity of formation of certain quaternary ammonium salts. H. McCombie, H. M. Roberts and H. A. Scarborough. Chem Soc J 127:753-9 Mr '25

AMMONIUM fluoaluminate
Crystal structures of ammonium fluoferrate, fluo-aluminate and oxyfluomolybdate. L. Pauling. Am Chem Soc J 46:2738-51 D '24

AMMONIUM fluoferrate
Crystal structures of ammonium fluoferrate, fluo-aluminate and oxyfluomolybdate. L. Pauling. Am Chem Soc J 46:2738-51 D '24

AMMONIUM molybdates
Some substituted ammonium molybdates and tungstates. A. C. Krause and F. C. Krauskopf. Am Chem Soc J 47:1689-94 Je '25

AMMONIUM muriate
Method for producing muriate of ammonia. diag Chem Age (Lond) 10:615-16 Je 14 '24

AMMONIUM nitrate
Ammonium nitrate. Chem & Met Eng 31:69 Jl 14 '24
Ammonium nitrate as an explosive. R. M. Cook. il Chem & Met Eng 31:231-3 Ag 11 '24
Dehydration of ammonium nitrate. T. L. Davis. Am Chem Soc J 47:1043-5 Ap '25
How the explosives industry regards ammonium nitrate. C: E. Munroe and others. Chem & Met Eng 30:621-3 Ap 21 '24
How to prevent the caking of crystals. H. J. Krase, J. Y. Yee and J. M. Braham. Chem & Met Eng 32:241-3 F 9 '25
Is ammonium nitrate an explosive? R. Aufschläger. Chem & Met Eng 30:619-21 Ap 21 '24
Properties of ammonium nitrate; analysis of crystalline deposits from solution in fused ammonium nitrate. E. P. Perman and D: R: Dawkins. diag Chem Soc J 125:1239-44 Je '24
Properties of ammonium nitrate; the reciprocal salt pair ammonium nitrate and lithium chloride. E. P. Perman and W. R. Harrison. Chem Soc J 125:1709-13 S '24
Properties of ammonium nitrate; the reciprocal salt pair ammonium nitrate and sodium sulphate. E. P. Perman and W. R. Harrison. Chem Soc J 125:364-9 F '24

AMMONIUM picramate
Ammonium picramate; patent. Chem Age 32: 151 Mr '24

AMMONIUM sulfate
Ammonium sulphate as a fertilizer. Gas J (Lond) 168:786 D 17 '24
British ammonia sulphate trade. Oil Paint & Drug Rep 107:91 Mr 26 '25
British sulphate of ammonia. Chem Age (Lond) 9:574 N 24 '23
British sulphate of ammonia federation, ltd., 4th annual general meeting. Gas J (Lond) 168:585-8 N 26 '24; Chem Age (Lond) 11: 548-9 N 29 '24
By-product sulphate of ammonia manufacture. P. Heigham. Chem Age (Lond) 10: 669-70 Je 28 '24
Chemical plant that is different. il Chem & Met Eng 32:272-3 F 16 '25
Co-operative marketing of British sulphate of ammonia. Chem & Met Eng 31:582 O 13 '24
Fertilizer from coal. R. Stewart. Manuf Rec 87:71-3 Ap 23 '25
Grading of sulphate of ammonia crystals. H. J. Hailstone. Gas J (Lond) 169:527-8 Mr 4 '25
Handling ammonia in a small gas works. diag Am Gas J 123:138+ Ag 15 '25
Manufacture and neutralization of sulphate of ammonia. C. Bateman. il diags Gas J (Lond) 166:750-2; Discussion. 752-3 Je 11 '24
Nitrogen from coal. H. A. Curtis. Chem & Met Eng 30:749-52 My 12 '24; Same. Gas Age 54:147-50 Ag 2 '24
Observations on the manufacture of neutral dry sulphate of ammonia. H. J. Hailstone. Gas J (Lond) 166:102-4 Ap 9 '24
Plant used in sulphate of ammonia manufacture. Gas J (Lond) 165:433 F 20 '24
Production of sulphate of ammonia. Am Gas J 121:798 Ag 30 '24
Production of sulphate of ammonia. G. Weyman. Gas J (Lond) 168:166-8 O 15 '24
Recent experiences with extraction of naphthalene, corrosion of mains, and caking of sulphate of ammonia. B. Richardson. Gas J (Lond) 164:515-16 N 21 '23
Record year for ammonium sulphate, 1924. Chem & Met Eng 32:129 Ja 19 '25
Review of some chemical plant problems. P. Parrish. Chem Age (Lond) 11:208-9 Ag 30 '24; Discussion. 11:231-2, 253-4 S 6-13 '24
Sulphate of ammonia drying. il Gas J (Lond) 166:104 Ap 9 '24
Sulphate of ammonia; its use as a fertilizer and as a weed killer. Gas J (Lond) 166:906 Je 25 '24
Thermal operation of an ammonium sulphate saturator. D. S. Chamberlin and C. W. Beggs. il diags Gas Age 56:635-7 O 31 '25
Value of ammonium sulphate. Gas J (Lond) 167:316 Jl 16 '24

AMMONIUM sulfate-nitrate
Investigation into the causes of the Oppau explosion. Chem Age (Lond) 10:408-10 Ap 19 '24

AMMONIUM sulfide
Paints resistant to sulfide fumes. P. H. Walker and E. F. Hickson. Ind & Eng Chem 16:1142-3 N '24

AMMONIUM thiocyanate
Equilibrium between thio-urea and ammonium thiocyanate. G. H. Burrows. Am Chem Soc J 46:1623-7 Jl '24

AMMONIUM tungstates
Some substituted ammonium molybdates and tungstates. A. C. Krause and F. C. Krauskopf. Am Chem Soc J 47:1689-94 Je '25

AMMONO-carbonic acids
Some ammono-carbonic acids and their reactions in liquid ammonia. W: L. Burdick. Am Chem Soc J 47:1485-90 Je '25

AMMUNITION
See also Smokeless powder

AMORPHOPHALLUS titanum
Short-lived, eight-foot flower of Sumatra. il Sci Am 133:323 N '25

AMORTIZATION
Amortization. B. L. Wheeler. Ind Management 67:163-6, 248-9 Mr-Ap '24
Amortization and the income tax. L. L. Thwing. Am Mach 60:24 Ja 3 '24
Amortization possibilities and income tax. L. L. Thwing. Textile World 65:69-70 Ja 5 '24

AMPERE trough experiment. See Electromagnetism

AMPHIBOLE
Iron amphibole similar to Hudsonite from Custer county, Idaho. E. V. Shannon. Am J Sci 5th ser 8:323-4 O '24

AMPHIBOLE—*Continued*
Studies in the amphibole group. A. N. Winchell. bibliog Am J Sci 5th ser 7:287-310 Ap '24

AMPHITHEATERS
Largest ice arena on the continent at Montreal. Eng & Contr (Bldgs) 63:1415-16 Je 24 '25

See also Autodromes; Stadia; *also* Queen's university—Jock Harty arena

Design
Design of seating areas for visibility; a mathematical method of section design. A. B. Randall and E. S. Crawley. Am Arch 125:487-93 My 21 '24

AMPLIFIERS
Crystodyne receivers and amplifiers. I. Podliasky. diags Radio N 6:470+ O '24
Intervalve transformers; the amplification of audio-frequency vibrations. C. H. Naylor. diags Elec R (Lond) 96:589-91, 631-3 Ap 10-17 '25
Radio frequency amplification, theory and practice. K. Harkness. 2d ed. 182p Radio guild, New York '24
Thermion vacuumless tube. H. G. Silbersdorff. il Radio N 7:19+ Jl '25

See also Radio loud speakers; Telephone—Amplifying apparatus

AMPLIFIERS, Vacuum tube
Amplifying short wave-lengths with resistance coupled amplifiers. P. Lafond. il diags Radio N 6:1414-15 F '25
Balanced feed-back power amplifier. C. J. Fitch. il diags Radio N 5:1082-3 F '24
Design of non-distorting power amplifiers. E. W. Kellogg. diags Am Inst E E J 44:490-8 My '25; Discussion. 44:645-7 Je '25
Distortion-free amplifiers. A. Ringel. diags Wireless Age 11:54-7 D '23
Distortionless resistance amplifier. C. J. Fitch. il diags Radio N 5:1760+ Je '24
Efficient speech amplifier and its application for phone, ICW and CW transmission. K. M. McIlwain. diags Wireless Age 11:55-6+ Ja '24
Der einfluss der frequenz auf die arbeitsweise des verstärkers; abstract. F. Ollendorff. diags Elektrotech Zeit 45:808-9 Jl 24 '24
Die fortschritte der bildtelegraphie, welche den erfindungen auf dem gebiete der verstärker-technik zu verdanken sind. A. Korn. Elektrotech Zeit 46:306-7 F 26 '25
Four types of audio amplification. S. Harris. il diags Radio N 7:620-3 N '25
Die glimmlichtverstärkerröhre; abstract. Elektrotech Zeit 45:166-7 F 28 '24
How does your set get its power? A. P. Peck. diags Radio N 7:451+ O '25
Improvement in speech amplifiers. H. A. Hankey. diag Radio N 5:1187 F '24
Improvement of the geophone by the use of electrical sound amplifiers. W. T. Ackley, jr. and C. M. Ralph. diags U S Bur Mines Rep of Invest 2639:1-5 S '24 (typew); Abstract. J Fr Inst 198:834-5 D '24
Inexpensive power amplifier. R. A. Bradley. il diags Wireless Age 12:24-5+ Je '25
Die leitwertdiagramme des elektronenröhrenverstärkers im wechselstromkreis. Kafka. Elektrotech Zeit 46:745 My 14 '25
Der Lorenz-zweirohr-zweidraht-zwischenverstärker. W. Scheppmann. il diag Elektrotech Zeit 45:302-3 Ap 3 '24
Multi-stage radio frequency amplification. J. Scott-Taggart. il diags Radio N 6:688-90+, 928-30+, 1171+, 1407-9+ N '24-F '25
Neutrodyning audio frequency amplifiers. C. J. Fitch. il diag Radio N 5:1419+ Ap '24
New impedance coupled audio frequency amplifier. S. E. Finkelstein. il diags Radio N 7:810-11+ D '25
Noiseless intermediate amplifier. G. C. B. Rowe. il diags Radio N 6:2079+ My '25
Push-pull amplifiers with standard parts. P. K. Winslow. il diags Radio N 6:2095+ My '25
Quantitative study of regeneration by inductive feed back. C. B. Jolliffe and J. A. Rodman. diags U S Bur Stand Sci Pa 487:419-28 '24
Resistance coupled amplifier. F. A. Parsons. il diag Radio N 7:59 Jl '25
Summary of the entire subject of amplifiers. L: Frank. diags Wireless Age 11:36-7+ My; 60-1+ Je; 54-5 Jl '24
Super-tone amplifier. R. Alan. il diags Wireless Age 11:62-3 Ag '24
Two-stage solodyne audio frequency amplifier. G. V. Dowding and K. D. Rogers. il diags Radio N 6:332+ S '24
Vacuum tube as amplifier. D. G. Ward. Wireless Age 12:40+ Jl '25
Das verstärkerrohr. G. Gruschke and B. Pohlmann. Elektrotech Zeit 45:334-5 Ap 10 '24

See also Vacuum tubes

AMSTERDAM
Harbor
Les formes de radoub de la Nederlandsche Dok Maatschappij à Amsterdam. il diags plans Génie Civil 87:227-30 S 12 '25

AMTORG trading corporation
Russian purchases. Iron Age 115:1652 Je 4 '25

AMUSEMENT parks
British Empire exhibition; Palace of engineering and industry, and the Wembley amusement park. J. B. C. Kershaw. il Sci Am 131:254+ O '24
Fire hazards of summer amusement parks. A. C. Carruthers. il Safety Eng 48:58-60 Ag '24

AMYGDALIN
Constitution of the disaccharides; gentiobiose; its identity with amygdalin biose. W. N. Haworth and B. Wylam. Chem Soc J 123: 3120-5 D '23
Synthesis of amygdalin. R. Campbell and W. N. Haworth. Chem Soc J 125:1337-43 Je '24

AMYLANILINE
On *n*-amylaniline. L. G. Radcliffe and R. Grindley. Soc Dyers & Col J 40:290-2 S '24

AMYLO-HEMICELLULOSE
Studies on starch; the nature of the amylohemicellulose constituent of certain starches. A. R. Ling and D. R. Nanji. Chem Soc J 127:652-6 Mr '25

AMYLOPECTIN
Studies on starch; the constitution of polymerised amylose, amylopectin, and their derivatives. A. R. Ling and O. R. Nanji. Chem Soc J 127:629-36 Mr '25
Studies on starch; the nature of polymerised amylose and of amylopectin. A. R. Ling and D. R. Nanji. Chem Soc J 123:2666-88 O '23

AMYLOSE
Studies on starch; the constitution of polymerised amylose, amylopectin, and their derivatives. A. R. Ling and O. R. Nanji. Chem Soc J 127:629-36 Mr '25
Studies on starch; the nature of polymerised amylose and of amylopectin. A. R. Ling and D. R. Nanji. Chem Soc J 123:2666-88 O '23

ANACONDA copper mining company
Anaconda strengthens position in western zinc industry. A. B. Parsons. il Eng & Min J 118:946-7 D 13 '24
Anaconda will proceed with equipment of Andes copper property. A. B. Parsons. Eng & Min J 118:1027 D 27 '24
Annual report, 1923. Comm & Fin Chr 118: 2298-9 My 10 '24
Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:2395 My 9 '25
Glimpse into the works of the Anaconda copper mining company. il Ind Eng 82:510-11+ N '24
How and why Anaconda helps the operator of the small mine. C. F. Kelley. Eng & Min J 116:928 D 1 '23

ANALYTIC chemistry. See Chemistry, Analytic

ANASPIDA
Anaspida and the problem of the origin of the vertebrates. P. E. Raymond. Am J Sci 5th ser 10:433-6 N '25 (to be cont)

ANCHOR bolts. See Bolts and nuts

ANCHOR chains. See Chains

ANCHORAGES, Bridge. See Bridges, Suspension—Anchorages

ANCHORS, Guy
Installation of Malone tower anchor. M. J. Idail and F. R. Weller. il diags Elec W 85: 457-9 F 28 '25

ANDALUSIA, Spain
Andalusian gardens and patios. M. Stapley and A. Byne. il Arch Rec 54:488-506; 55: 65-80, 177-93, 277-92, 373-87, 478-92, 569-85; 56:75-88, 161-77, 257-75 D '23-S '24

ANDALUSITE
Andalusite in California. J: Melhase. il Eng & Min J 120:91-4 Jl 18 '25
Changes in the constitution and microstructure of andalusite, cyanite, and sillimanite at high temperatures and their significance in industrial practice. A. B. Peck. il Am Cer Soc J 8:407-29 [bibliog. p. 428-9] Jl '25
Formation of mullite from cyanite, andalusite, and sillimanite. J. W. Greig. il diags Am Cer Soc J 8:465-83; Discussion. 483-4 Ag '25
New uses of nonmetallic minerals. W. M. Myers. U S Bur Mines Rep of Invest 2587:1-4 Mr '24 (typew); Same. Brick & Clay Rec 64:739-40 My 13 '24
Progress report on the use of andalusite as a refractory. R. Twells, jr. Am Cer Soc J 8: 485-9; Discussion. 490-2 Ag '25
X-ray study of cyanite and andalusite. J: T. Norton. il Am Cer Soc J 8:636-9 O '25

ANDERSON, Peirce, 1870-1924
Sketch. T: E. Tallmadge. por Arch Rec 55: 469-72 My '24

ANDERSON, Robert J., 1892-
Awarded MacFadden medal. por Foundry 53: 727-8 S 15 '25; Brass W 21:308 S '25; Iron Age 116:737-8 S 17 '25

ANDREWS, Lincoln C.
New Assistant secretary of the treasury. por Elec Ry J 65:527 Mr 28 '25

ANEMOMETER
Aerology for amateurs and others. E. V. Hill. il diag Heat & Ven 21:45-7 Mr '24
Hot-wire anemometer for measuring air flow through engine radiators. C. G. F. Zobel and L. B. Carroll. U S Bur Stand Tech Pa 287:287-96 '25
Measurement of air flow; Callendar hot wire anemometer. R. O. King. il diag Engineering 117:136-7, 249-51 F 1, 22 '24
Measuring gusts of wind. Sci Am 131:289 O '24

ANESTHETIC ether. See Ethyl ether

ANESTHETICS
New technique of anesthesia. A. Gradenwitz. il Sci Am 130:33 Ja '24
See also Chloroform; Ethyl chloride; Ethyl ether

ANESTHETICS, Local
Aromatic esters of acylecgonines. W: H. Gray. Chem Soc J 127:1150-8 My '25
Correlation of some aromatic types with physiological action; local anesthetics containing the furan, thiophene and pyrrole nuclei. H: Gilman and R. M. Pickens. Am Chem Soc J 47:245-54 Ja '25
Derivatives of para-hydroxymethyl-benzoic acid; esters. F. H. Case. Am Chem Soc J 47:1143-7 Ap '25
Preparation of derivatives of diphenic acid possessing the properties of local anesthetics. R. C. Roberts and T. B. Johnson. Am Chem Soc J 47:1396-1402 My '25
Pressor anesthetics. C. S. Marvel and V. du Vigneaud. Am Chem Soc J 46:2093-9 S '24
Properties of aryl esters and ethers of n-piperidino alkyl compounds. H. C. Brill. Am Chem Soc J 47:1134-6 Ap '25
Stereoisomerism and local anæsthetic action in the β-eucaine group; resolution of β- and iso-β-eucaine. H. King. Chem Soc J 125: 41-57 Ja '24
Utilization of para-toluidine in the synthesis of aromatic esters of the novocaine type. M. A. Soderman and T. B. Johnson. Am Chem Soc J 47:1390-5 My '25

ANGLE bars
Improves rail and track supply plant; the Colorado fuel and iron co., Pueblo, Colo. G. L. Lacher. il Iron Age 114:495-8 Ag 28 '24
New machine for punching and cropping angle bars for structural steelwork. Mech Eng 47: 294 Ap '25

ANGLE blocks
Generating precision tools. W: E. Hoke. diags Mach 31:424-5 F '25

ANGLES
Formula for calculating profile gage angles. E: Heller. diags Mach 30:801 Je '24
Laying out angles without protractor or tables. H. A. Freeman. diag Mach 31:863 Jl '25

ANGLO-Argentine tramways company
Annual general meeting, London, June 9. Economist 100:1203-4 Je 13 '25

ANGLO-Dutch plantations of Java, limited
Ordinary general meeting, 15th, London. Economist 101:240-1 Ag 8 '25

ANGLO-Persian oil company
Accounts and report for the year ending March, 1924. Economist 99:813-14 N 22 '24
Meeting, 15th, London, Nov. 25. Economist 99:884-7 N 29 '24

ANGLO-South American bank, limited
Annual general meeting, 36th. Economist 99: 662-5 O 25 '24

ANGOLA. See Africa, Portuguese West

ANGORA goat
Angora goat and mohair production. Comm M 6:25-30 Ag '24

ANHYDRIDES
Use of aliphatic acid anhydrides in the preparation of ketones by the Friedel and Crafts reaction. C. R. Noller and R. Adams. Am Chem Soc J 46:1889-96 Ag '24

ANHYDRITE
Effects of temperature and pressure on gypsum and anhydrite. M. Farnsworth. U S Bur Mines Rep of Invest 2654:1-3 N '24 (typew)
Hydration of anhydrite. M. Farnsworth. Ind & Eng Chem 17:967-70 S '25

ANHYDRONIUM bases
Polynuclear heterocyclic aromatic types; some anhydronium bases. J. W. Armit and R. Robinson. Chem Soc J 127:1604-18 Jl '25

ANILINE
Aniline. Chem Age 32:312-13 Jl '24
Aniline and its derivatives. P. H. Groggins. 263p Van Nostrand '24
Aniline oil production reduced in 1924. Chem & Met Eng 32:136 Ja 19 '25
Antiseptic action of the zinc chloride salt of aniline. J. W. Howard and F. D. Stimpert. Am Chem Soc J 45:3106-8 D '23
Catalytic alkylation of aniline. A. B. Brown and E. E. Reid. Am Chem Soc J 46:1836-9 Ag '24
Colour test for aniline and toluidine. H. D. Murray. Soc Dyers & Col J 41:148 Ap '25
Direct sulphuration of aniline. H. H: Hodgson. Chem Soc J 125:1855-8 S '24
Electrical conductivities of mixtures of aniline, acetic acid, and water. J. R. Pound. Chem Soc J 125:1560-4 Ag '24
Infra-red absorption spectra of organic derivatives of ammonia; aniline and some mono- and dialkyl anilines. F: K. Bell. diag Am Chem Soc J 47:2192-2207 Ag '25
Interference of ammonia with the hypochlorite reaction for aniline. E. S. West. Ind & Eng Chem 16:1270-1 D '24
Mechanism of aniline thionation with observations of the therapeutical importance of the dithioanilines. H. H. Hodgson. Soc Dyers & Col J 40:330-7 O '24

ANILINE—*Continued*
Methylene-citric anhydride; the aniline derivatives of citric and aconitic acids. C. A. Nau, E. B. Brown and J. R. Bailey. Am Chem Soc J 47:2596-2606 O '25
Notes on the manufacture of aniline. R. N. Shreve. Chemicals (Dyestuffs sec) 17:31-2 Ag 17 '25
Properties of mixtures of aniline, water and some fatty acids. J. R. Pound and R. S. Russell. Chem Soc J 125:769-80 Ap '24
Removal of the organic sulphur from gas; aniline as the reacting agent. Gas J (Lond) 167:322 S 10 '24
Some binary systems composed of acetic acid and the homologues of aniline. E. A. O'Connor. Chem Soc J 125:1422-7 Jl '24
Some physical properties of aniline and its aqueous solutions. M. P. Applebey and P. G. Davies. Chem Soc J 127:1836-40 Ag '25
Studies on the directive influence of substituents in the benzene ring; the partial bromination of derivatives of aniline. A. W. Francis. Am Chem Soc J 47:2588-96 O '25
Ternary systems; silver perchlorate, aniline and water. A. E. Hill and R. Macy. diags Am Chem Soc J 46:1132-50 My '24
Titration of aniline and homologs. D. O. Jones and H. R. Lee. Ind & Eng Chem 16:948-9 S '24
Vapor pressures and boiling points of mono- and dimethylanilines and mono- and diethylanilines. O. A. Nelson and H. Wales. Am Chem Soc J 47:867-72 Mr '25

Analysis
Analysis of a mixture of aniline and toluidines. H. F. Liddell. Soc Chem Ind J 44: 506 O 30 '25
Determination of aniline in aqueous solutions. C. M. Carson. Ind & Eng Chem 17:62-3 Ja '25

ANILINE black
Aniline black on mixtures of silk and cotton. Textile Col 47:723 N '25
Formation of aniline black—a bimolecular reaction. J. Piccard and F. de Montmollin. Soc Dyers & Col J 40:54 F '24
Oxalic acid in aniline black production; abstract. E. Justin-Mueller. Soc Dyers & Col J 40:425 D '24
Oxidizing agents in dyeing aniline black. A. J. Hall. diag Textile Col 45:695-7 N '23
Printing of aniline black. W. R. McKennon. Textile Col 47:578 S '25

ANILINE disulfoxide
Derivatives of aniline disulphoxide. C: M: Bere and S: Smiles. Chem Soc J 125:2359-63 N '24

ANILINESULFONIC acids
Solubility of anilinesulphonic acids. J. C: Philip and R. S. Colborne. Chem Soc J 125:492-500 Mr '24

ANILINOBENZOTHIAZOLE
Aminobenzthiazoles; 1-anilino-benzthiazole and its tolyl homologues. R. F. Hunter. Chem Soc J 127:2023-8 S '25

ANILINOCYCLOPENTANECARBOXYLIC acid
Synthesis and reactions of 1-anilino-*cyclo*pentane-1-carboxylic acid. S. G. P. Plant and J: E. Facer. Chem Soc J 127: 2037-40 S '25

ANILINOFLAVINDULINES
Dyes derived from phenanthraquinone; anilinoflavindulines and phenanthraquinone azo dyes; abstract. A. C. Sircar and D. C. Roy. Soc Dyers & Col J 40:185-6 Je '24

ANILINOPHENYLACETONITRILE
Interaction between ethyl ethylidenemalonate and anilinophenylacetonitrile. L. Higginbotham, A. Lapworth and C: Simpson. Chem Soc J 125:2339-44 N '24

ANILS
Addition of ethyl malonate to anils. E: J. Wayne and J. B. Cohen. Chem Soc J 127: 450-60 F '25

ANIMAL industry
How chemistry helps to solve livestock problems. J: R. Mohler. Chem Age 31:569-71 D '23

ANIMAL products
See also Horsehair; Wool

ANIMALS
First aid to animals. J: L. Leonard. 396p Harper '24
See also Birds; Fishes; Horses; Insects; Live stock; Sheep

Habits and behavior
Animal animosities. S. F. Aaron. il Sci Am 130:328 My '24

ANIMALS, Mechanical
Dinosaurs and elephants to order. D. MacGregor. il Nation's Business 13:28-9 Ag '25
Rubber used in mammoth models. F. A. Emmons. il Rubber Age 18:54-5 O 25 '25

ANISIDINE
Preparation of 4-chloro-6-nitro-*m*-anisidine. J: R. H. Whiston. Soc Chem Ind J 43:370 D 26 '24

ANISOTROPISM
Determination of anisotropism in metallic minerals. Econ Geol 18:775-8; 19:582-4 D '23, S '24
Gravitational anisotropy in crystals. P. R. Heyl. il diags U S Bur Stand Sci Pa 482:307-24 '24

ANN ARBOR railroad. See Wabash railroad

ANNAPOLIS, Maryland
Engineering in the small city. Eng N 95:95-6 Jl 16 '25

ANNEALING
Annealing large castings to prevent distortion. J. A. Capp. il Am Mach 63:385-7 S 3 '25
Annealing malleable cast iron. S. J. Felton. Iron Age 115:489-90 F 12 '25
Annealing of sheet metal for stamping. F. G. White. diags Blast F & Steel Pl 11:542-4, 637-42 O, D '23
Annealing tool steel. Iron Age 113:794 Mr 13 '24
Cooling cause of brittleness. S. A. Richardson. il diag Iron Tr R 77:550-2+ S 3 '25
Cut time of malleable anneal. il chart diag Foundry 52:43-50 Ja 15 '24
Effect of annealing hoisting sling chains. A. V. de Forest. Ind Eng 82:545 N '24
Effect of low-temperature annealing on some mechanical properties of cold-drawn steels. S. H. Rees. Iron & Steel Inst J 108:273-83 no 2 '23
Five steel companies using the electric method of melting agree to anneal all castings. H. A. Neel. Automotive Ind 51:926 N 27 '24
Fuel of the future—what shall it be? I. Ginsberg. il Am Gas J 122:45-6+; 123:89-91+ Ja 17, Ag 1 '25
Heat treating—its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. il Iron Tr R 74:293-5+, 411-13, 551-4, 671-3, 799-803 Ja 24, F 7, 21, Mr 6, 20 '24
Manufacturing and heat treating alloy steel. M. A. Grossmann. il Iron Tr R 75:215-18 Jl 24 '24
New annealing equipment for strip steel. il diags plan Iron Age 114:907-9 O 9 '24
New annealing practice for tool steels. A. T. Clarage. il Iron Age 113:1019-20 Ap 3 '24
Part played by gas in bright annealing of steel. R. J. Phelon. il Gas Age 53:372+ Mr 22 '24
Possibilities of producing malleable iron and intermediate products of value in short annealing periods. A. Hayes and W. J. Diederichs. Iron Age 113:1797+ Je 19 '24
Recommend microscope as control instrument. J. F. Harper and H. J. Stein. il Foundry 53:487-9+ Je 15 '25
Recrystallization phenomena in aluminum. E. Wetzel. Brass W 20:335-7 O '24
Tying gray or white cast iron in knots. B. Stoughton. il Iron Age 113:15-21 Ja 3 '24
Ueber das weichglühen von grauguss. E. Schüz. il Stahl & Eisen 44:116-18 Ja 31 '24
See also Electric furnaces, Annealing; Furnaces, Annealing; Glass manufacture; Iron; Steel, Heat treatment of; Tubes, Brass; Wire annealing machines

ANNEALING boxes
Something new in annealing boxes. diags Blast F & Steel Pl 13:277 Jl '25

ANNEALING furnaces. See Furnaces, Annealing

ANNIVERSARIES

Advertising

Anniversaries and the printer. J. B. Gray. Inland Ptr 74:379-80 D '24

ANNUALS. See Directories—Bibliography; Yearbooks—Bibliography

ANNUITIES
Annuities aid agents in canvassing for life insurance. D: P. Fackler. Spectator 112:21 My 29 '24
Field for life annuities in the United States. D. P. Fackler. Econ W n s 27:453-5 Mr 29 '24; Same. Spectator 112:17-18 Mr 20 '24
Improved annuities provided under present-day life insurance policies. F. H. Small. Econ W n s 28:491-2 O 4 '24
Mathematics of investment. W: L. Hart. 220p Heath '24

ANNULAR gearing. See Gearing, Annular

ANNUNCIATORS
Annunciators facilitate station operation. H E. Barden. diag Elec W 83:1188 Je 7 '24

ANODE effect
Anode effect. C. S. Taylor. Am Electrochem Soc Trans v 47 (preprint 14):161-71 Ap '25; Same. Brass W 21:231-4 Jl '25

ANODES. See Electrodes

ANTARCTIC regions
Antarctic sea-ice. R. W. James. Sci Am 131: 116 Ag '24

ANTENNAS. See Radio antennas

ANTHOCYANIDINS
Synthesis of pyrylium salts of anthocyanidin type. D: D. Pratt and others. Chem Soc J 121:1577-85; 123:745-58; 125:188-207; 127:166-75, 1128-38, 1182-95 Ag '22, Ap '23, Ja '24, Ja, My '25

ANTHRACENE
Action of nitrogen dioxide on anthracene derivatives. E: De B. Barnett. Chem Soc J 127:2040-4 S '25
Quantitative estimation of anthracene in anthraquinone. H. F. Lewis. Ind & Eng Chem 16:1184 N '24
Space formulae of benzene, naphthalene and anthracene. B. Orelkin. Chem Soc J 124 pt 1:1082-3 N '23
Studies in chemical reactivity; the anthracene—dianthracene reactions, photochemical and thermal. H. A. Taylor and W. C. M. Lewis. Am Chem Soc J 46:1606-14 Jl '24
Studies in the anthracene series. E: de B. Barnett and M. A. Matthews: J. W. Cook. Chem Soc J 123:2549-57, 2631-42; 125:1079-87 O '23, My '24
Variation with pressure of the boiling points of naphthalene, benzophenone and anthracene. J. L. Finck and R. M. Wilhelm. Am Chem Soc J 47:1577-82 Je '25

Analysis

Study of the Höchst test for the determination of anthracene. F. H. Rhodes, M. L. Nichols and C. W. Morse. Ind & Eng Chem 17:839-42 Ag '25

ANTHRANILIC acids
Preparation of phthalamic acids and their conversion into anthranilic acids. E. Chapman and H: Stephen. Chem Soc J 127:1791-7 Ag '25

ANTHRAQUINONE
Anthraquinone colors on cellulose acetate. L. J. Hooley. Color Tr J 16:93-5 Ap '25
Decomposition of anthraquinone by heat. H. F. Lewis and S. Shaffer. Ind & Eng Chem 16:717-18 Jl '24
Improved method for manufacture of anthraquinone. Color Tr J 15:77 S '24
New developments in anthraquinone vat dyestuffs; Soledon colors. L. J. Hooley. Chem Age (Lond) 12:4-5 Ja 3 '25
Nitrate and nitrite catalysts in manufacture of anthraquinone. Color Tr J 15:141-2 N '24
Polyhydroxy and polyhydroxymethyl anthraquinones; syntheses from opianic acid and phenols or cresols. R. A. Jacobson and R. Adams. Am Chem Soc J 47:2011-18 Jl '25
Polyhydroxy-methylanthraquinones; condensation of opianic acid with substituted phenols—orientation in the preparation of anthraquinones. R. A. Jacobson and R. Adams. Am Chem Scc J 46:2788-93 D '24
Preparation and properties of 1-benzoylamino-2-methylanthraquinone. W. H. Beisler and J. L. Bray. Am Chem Soc J 47:2371-3 S '25
Preparation of methyl-isopropyl-anthraquinone. M. Phillips. Am Chem Soc J 46:2533-6 N '24
Production of anthraquinone from benzoylbenzoic acid. Chemicals (Dyestuffs sec) 16:154 My 25 '25
Quantitative estimation of anthracene in anthraquinone. H. F. Lewis. Ind & Eng Chem 16:1184 N '24
Recent progress in the vat dyestuff industry. B. DePuyster. Color Tr J 14:88-92 Mr '24
Recovering anthraquinone from sulfonic products. A. E. Barnard. Color Tr J 14:113 Ap '24
Reduction potentials of quinones; the potentials of certain derivatives of benzoquinone, naphthoquinone and anthraquinone. J. B. Conant and L: F. Fieser. diag Am Chem Soc J 46:1858-81 Ag '24
Some substituted ortho-benzoyl-benzoic acids and the corresponding anthraquinones. O. R. Quayle and E. E. Reid. Am Chem Soc J 47:2357-61 S '25
Studies in the anthracene series. E: de B. Barnett and M. A. Matthews. Chem Soc J 125:1079-83 My '24
Vat dyes in America. R. N. Shreve. Color Tr J 16:127-8 My '25

See also Hydroxyanthraquinones; Quinazarine; Trihydroxy-methylanthraquinones

ANTHRAQUINONE sulfonic acids
Electrolytic reduction of beta-anthraquinone sulfonic acid. A. R. Ebberts and A. Lowy. Am Electrochem Soc Trans v 45 (preprint 12):173-9 Ap '24
Ortho-benzoyl-benzoic acids containing fluorine, iodine and sulfur. F: C. Hahn and E. E. Reid. Am Chem Soc J 46:1645-53 Jl '24

ANTHRAX
Anthrax in Italy. Int Labour R 8:729-38 N '23
Anthrax in the British Empire. Int Labour R 9:242-56 F '24
Anthrax in various countries. Int Labour R 8:903-14; 10:486-96, 1029-34 D '23, S, D '24

ANTHROPOGEOGRAPHY
Civilization and climate. E. Huntington. 3d ed., rev. 453p Yale univ. press, New York '24
Geographical introduction to history. L. P. V: Febure and L. Bataillon. 388p [bibliog. p. 369-79] Knopf '25

ANTHROPOLOGY

See also American school of prehistoric research in Europe

ANTI-AIRCRAFT guns. See Guns, Anti-aircraft

ANTI-FOULING paints. See Paint, Protective

ANTI-FREEZE solutions
Anti-freeze days are here; glycerin is the ideal substance. Pet Age 16:28 O 15 '25
Anti-freeze solutions. F. E. Joyce. Chem & Met Eng 32:389 Mr '25
Anti-freezing solutions. Soc Auto Eng J 15: 498-9 D '24
Ethylene glycol; a contribution of chemistry to the automobile antifreeze problem. G. O. Curme, jr. and C. O. Young. Ind & Eng Chem 17:1117-20 N '25
Industry growth reflected in plans for winter work. il plan Bus Transportation 4:425-6 S '25
Making winter service pay; keeping plenty of anti-freeze solutions on hand. Pet Age 16: 33 N 1 '25

ANTI-FREEZE solutions—*Continued*
New radiator anti-freeze compound. Bus Transportation 4:453 S '25
Use of glycerine as an anti-freeze solute. Automotive Ind 53:736 O 29 '25

See also Automobile engines—Cooling; Ethylene glycol

ANTIMONY
Antimony. H. K. Masters. Eng & Min J 119:92 Ja 17 '25
Antimony ores. E: Halse. 102p [bibliog. p. 93-102] J. Murray, London '25
Chinese antimony in 1924. Oil Paint & Drug Rep 107:67 My 25 '25
Dependence of polarisation-overvoltage on hydroxyl- and hydrogen-ion concentration; polarisation-overvoltage of an antimony cathode in aqueous alkaline solution. H: J. S. Sand and E: J. Weeks. Chem Soc J 125:160-8 Ja '24
Early history of antimony. H. Hyman. Soc Chem Ind J (Chem & Ind) 43:1006-7 O 10 '24; Discussion. 43:1058 O 24 '24
Electrodeposition of antimony. J. C. Ghosh and A. N. Kappana. J Phys Chem 28:149-60 F '24
Electrometric titration of antimony and tin by potassium dichromate. M. H. Fleysher. Am Chem Soc J 46:2725-7 D '24
Marketing of antimony. H. K. Masters. Eng & Min J 118:496-8 S 27 '24
Mineral industry of the British Empire and foreign countries; statistics, 1919-1921. 20p Gt. Brit. Imperial mineral resources bur., London '24
Revision of the atomic weight of antimony; the analysis of antimony trichloride. P. F. Weatherill. diags Am Chem Soc J 46:2437-45 N '24
Spectra and critical potentials of fifth group elements. A. E. Ruark and others. il U S Bur Stand Sci Pa 490:463-86 '24

Bibliography
Early history of antimony; bibliographical references in Van der Linden's De scriptis medicis. H. A. Auden. Soc Chem Ind J (Chem & Ind) 43:1132 N 14 '24

ANTIMONY chlorides
Revision of the atomic weight of antimony; the analysis of antimony trichloride. P. F. Weatherill. diags Am Chem Soc J 46:2437-45 N '24
System antimonious oxide-hydrochloric acid-water. C: Lea and J: K. Wood. Chem Soc J 125:137-48 Ja '24

ANTIMONY compounds
Organic derivatives of antimony. W. G. O: Christiansen. 230p [bibliog. p. 215-19] Chemical catalog co. '25
Soluble antimony compounds. C. F. Green. Textile Col 47:379-80 Je '25

ANTIMONY halides
Reactivity of antimony halides with certain aromatic compounds. E. Vanstone. Chem Soc J 127:550-2 Mr '25

ANTIMONY hydride
Solid antimony hydride. E: J. Weeks and J: G. F: Druce. Chem Soc J 127:1069-72 My '25

ANTIMONY oxides
Free energy of antimony trioxide and the reduction potential of antimony. R. Schuhmann. diags Am Chem Soc J 46:52-8 Ja '24
Solution of tin and antimony oxides. E. Stelling. Ind & Eng Chem 16:346 Ap '24
Some notes on the color of antimony enamels. M. E. Manson. Am Cer Soc J 8:437-40 Jl '25

ANTIMONY sulfide
Studies on adsorption. K. C. Sen, P. B. Ganguly and N. R. Dhar. J Phys Chem 28: 313-32 Ap '24

ANTIMONYL tartrates
Antimonyl tartrates of some organic bases. W. G. Christiansen and A. J. Norton. Am Chem Soc J 47:876-81 Mr '25

ANTIOCH college
Antioch college, educational pioneer. S. Bell. Comm & Fin 13:382-3 F 20 '24
Institutional management: training at Antioch college. J. E. Turner. il Nation's Health 6:404-7 Je '24
This college has a business code. A. E. Morgan. Nation's Business 13:34-5 Je '25
What will college give your son? P. S. Salisbury. il Sales Management 6:931-2+ My '24

ANTISCORBUTICS. See Scurvy

ANTISEPTICS
Antiseptic action of the zinc chloride salt of aniline. J. W. Howard and F. D. Stimpert. Am Chem Soc J 45:3106-8 D '23
New organic mercurials and their therapeutic applications. E. C. White. bibliog Ind & Eng Chem 16:1036-7 O '24
Researches on hydantoins; a method of synthesizing 1,5-diaryl-hydantoins; 1,5-di (para-hydroxyphenyl)-hydantoin. R. D. Coghill. Am Chem Soc J 47:216-21 Ja '25
Researches on hydantoins; the synthesis of hydantoins containing phenolic groups in the glyoxaline nucleus. R. D. Coghill and T. B. Johnson. Am Chem Soc J 47:184-93 Ja '25

See also Chloramine T; Disinfection and disinfectants; Dyes as antiseptics and disinfectants; Phenols

ANTITOXINS

See also Chemotherapy

ANTS
Mighty hunters in the world of ants. S. F. Aaron. il Sci Am 132:318-19 My '25
Wars of ants. S. F. Aaron. il Sci Am 131: 106+ Ag '24

See also Termites

ANTWERP
Advantage of Antwerp as a distributing center. G: S. Messersmith. Dun's Int R 45:69-70+ Ap '25
Recent developments at the principal port of Belgium. G: De Bremacker. il Dun's Int R 45:71-2+ My '25

APARTMENT hotels
Apartment hotel, 12 East 86th street, New York city. Arch & Bldg 55:112-13, pl 215-21 N '23
Bellerive, Kansas City, Mo., an apartment house hotel. il plans Am Arch 126:443, pl 153-6 N 5 '24
Concourse Plaza apartment hotel, New York city. il plans Arch & Bldg 55:120-1, pl 249-53 D '23
Construction of apartment hotels. il plans Arch Forum 41:221-4 N '24
Decoration and furnishing of public rooms of hotels. H. Major. il Arch Forum 41:243-6 N '24
Decorative treatment of furnished apartments. J: H. Hutaff. il Arch Forum 41:249-52 N '24
Economic factors of an apartment hotel project. Arch Forum 41:213-16 N '24
Efficiency planning and equipment. C. S. Taylor. il plans Arch Forum 41:253-8 N '24
Food service in apartment hotels. A. E. Merrill. il plans Arch Forum 41:265-8 N '24
Hotel Pennsylvania, Philadelphia, Pa. il Arch & Bldg 56:1, pl 1-5 Ja '24
Important addition to the new hotel life of New York city; Park Lane hotel. il plans Am Arch 126:445-8, pl 157-60 N 5 '24
Interior architecture of apartment hotels. W. S. Wagner. il Arch Forum 41:237-40 N '24
Lake Shore Drive and the Belmont hotels, Chicago. il plans Arch Forum 41:217-20, pl 57-60 N '24
Planning the modern apartment hotel. S. F. Weaver. il plans Arch Forum 41:205-12 N '24
Sulgrave, an apartment hotel in New York city. J. A. Twachtman. il plan Am Arch 127:187-96 F 25 '25
Webster apartments for working girls, New York. Arch & Bldg 56:9-11, pl 32-6 F '24

Designs and plans
Architectural forum; apartment hotel reference number. Arch Forum 41:205-68 N '24

APARTMENT hotels—*Continued*

Equipment

Mechanical equipment of apartment hotels. J. F. Musselman. il plans Arch Forum 41:233-6 N '24; Excerpt. Heat & Ven 21:70-1 D '24

Special equipment for apartment hotels. W: L. Rouse. il plans Arch Forum 41:227-30 N '24

APARTMENT houses

Apartment building housing small stores and shops. plans Eng & Contr (Bldgs) 62:484-6 Ag 27 '24

Apartment house, 1158 Fifth avenue, New York city. il Arch & Bldg 57:3-4, pl 18-19 Ja '25

Apartment house, 77 Park ave., New York city. Arch & Bldg 56:103, pl 214-15 N '24

Apartment house, 655 Park ave., New York city. Arch & Bldg 56:122, pl 244-5 D '24

Apartment house, 277 Park ave., New York city. Arch & Bldg 57:4+, pl 22-4 Ja '25

Apartments in court groups. plans Bldg Age 46:96-7 N '24

The Ardsley modern one room apartment house. il plan Bldg Age 46:56-7 Je '24

Building The Towers. il plans Bldg Age 46: 62-4 Jl '24

Clever arrangement of apartments around two courts. E. H. Ries. il plans Bldg Age 46:66-7 My '24

Concrete used on tall apartments. W: F. Zabriskie. il diags plans Concrete 27:27-31 N '25

Design and plan of small city apartment buildings. R. E. L. Taylor. il plans Arch Forum 43:121-6 S '25

Development of the American apartment house. il plans Bldg Age 46:63-5 My '24

Devonshire house, Piccadilly, London. il (supp) diags plans Am Arch 128:127-32 Ag 12 '25

Efficiency apartments. G: F. Pelham, jr. il plans Arch Forum 43:147-52 S '25

Evolution and development of Jackson Heights. il plans Arch Forum 41:61-6 Ag '24

Features that sell apartments. il plans Bldg Age 46:59-61 Ag '24

Features which help to rent apartment houses. C. S. Taylor. il Arch Forum 43:137-42 S '25

First-prize plan for new subdivision in Country club district, Kansas City, Mo. plans Arch Rec 57:570-3 Je '25

Fleetwood Hills country club apartments, Fleetwood Hills, New York. il plan Am Arch 128:97-8, pl 204-8 Jl 29 '25

Four family apartment. il plan Bldg Age 46: 104 Mr '24

Group of apartments in Philadelphia, Pa., views and plan. Am Arch 125:578c-g Je 18 '24

Group of apartments on unusual plan. il plan Bldg Age 47:120-1 Je '25

Interior finish and fixtures of apartment houses. L. French, jr. il Arch Forum 43: 177-84 S '25

Large concrete flat buildings erected in thirteen weeks. il diag plan Eng N 92:531-2 Mr 27 '24

La Salle Gardens apartments, Detroit, Mich., views and plans. Am Arch 126:pl 11-13 Jl 2 '24

Low-rental apartment, an economic fallacy. F. C. Brown. il plans Arch Rec 55:405-15, 588-97; 56:65-73 My-Jl '24

Low rental housing; community planning and the unit suburban group apartment, Bridgeport, Conn. F. C. Brown. il plans Arch Rec 56:353-67 O '24

Low rental housing; suburban type. F. C. Brown. il plans Arch Rec 56:106-16, 206-17 Ag-S '24

Metropolitan houses in Long Island City. Arch & Bldg 56:42-4, pl 99-105 My '24

Milaflores apartments, Detroit, Mich. il plans Bldg Age 47:128-9 S '25

New features in apartment house building. A. E. MacDougall. il plans Arch Forum 43: 153-60 S '25

No. 277 Park avenue, New York; views and plans. Arch Forum 43:pl 9-11 Jl '25

One room apartment arrives. M. G. Farrell. il plan Am Arch 125:553-8 Je 18 '24

Planning small apartments for narrow lots. R. M. Singer. il plans Bldg Age 47:132-3 Ap '25

Rapid concreting of apartment building at Chicago. il Eng N 95:102-3 Jl 16 '25

Schenley apartments, Pittsburgh, Pa. Arch & Bldg 56:20, pl 60-4 Mr '24

Selling apartments by stunt. il plans Bldg Age 46:66-7 S '24

Store and apartment building. il plans Bldg Age 47:108 Ja '25

Suburban apartment house. J: T. Boyd, jr. il Arch Forum 43:131-6 S '25

Utilizing the street grade in hillside apartments; Morrowfield apartments, Pittsburgh. il plan Bldg Age 46:70-1 O '24

Westbrook apartments, Buffalo, N. Y. Arch & Bldg 57:pl 44 F '25

See also Apartment hotels; Telephone in apartment houses; Tenement houses

Cooperative ownership

Building and mortgage survey. R. D. Maxwell. Forbes 16:296 Je 1 '25

Coöperative apartment buildings. A. E. Curtis. Arch Forum 43:143-4 S '25

Co-operative homes meet a real need. A. E. Curtis. Bldg Age 46:92+ My '24

Garden homes at Jackson Heights, Long Island. il plans Arch & Bldg 56:55-7, pl 120-4 Je '24

Hudson View Gardens, New York city. il Arch & Bldg 57:85-6, pl 204-5 O '25

What labor's entrance into home-building means to you. R. Crothers. Ptr Ink 131: 107-8 My 7 '25

Designs and plans

Apartment house reference number. Arch Forum 43:121-84, pl 33-56 S '25

Electric equipment

At last! the all-electric apartment house. il J Elec 51:384 N 15 '23

Sacramento owner fully electrifies apartments. il J Elec 54:65 Ja 15 '25

Equipment

Hot water and refrigeration in group apartments. C: L. Hubbard. il diag Dom Eng 112:23-4 S 25 '25

Finance

Apartments can be profitable at a rent of $9 per room. il Nation's Health 7:622-3 S '25

Profit in rentals at nine dollars per room. Eng & Contr (Bldgs) 64:677 S 23 '25

Heating and ventilation

Heating group apartments. C: L. Hubbard. il plans Dom Eng 112:24-6+ S 12 '25

New application of old principles in heating an apartment building; one-pipe gravity-return system and air supply equipment. il diags plans Heat & Ven 22:47-53 Mr '25

APES, Fossil

Did man evolve in Africa? an account of the remarkable fossil man-ape. A. G. Ingalls. il Sci Am 132:308-9 My '25

APOSTROPHE. See Punctuation

APPALACHIAN power company

Automatic substations of the Appalachian power company. G. L. Furr and W. L. Webb. il map plan Gen Elec R 28:408-14 Je '25

APPARENT power

Die definition der schein- und blindleistung sowie des leistungsfaktors bei mehrphasenstrom. H. Schering. Elektrotech Zeit 45:710-12 Jl 3 '24

APPENDICITIS

Increasing deaths from appendicitis. F: L. Hoffman. Spectator 115:31-3+ O 1 '25

APPLE storage

Apple storage investigations. Refrig W 60:24 Ja '25

APPLE storage—*Continued*
Physiological studies of apples in storage. J. R. Magness and H. C. Diehl. Refrig Eng 11: 437-8 Je '25

APPLES
Control of apple scald. C: Brooks. Refrig W 60:10 Ag '25
Handling, packing and storing fruit. W. A. Scott. il Cassier's Ind Management 12:359-61 Jl '25
Nature of corrosion in canned fruits. E: F. Kohman and N. H. Sanborn. Ind & Eng Chem 16:290-5 Mr '24
Outlook for the apple crop of the United States. Comm M 6:13-14 D '24
Vitamins in canned foods. E. F. Kohman, W. H. Eddy and V. Carlsson. charts Ind & Eng Chem 16:1261-3 D '24

APPLEWOOD
Quantitative methods for the analysis of hemicellulose in apple wood. W. E. Tottingham and F. Gerhardt. Ind & Eng Chem 16:139-40 F '24

APPLICATION of funds statement. See Financial statements

APPLICATIONS for position
Getting the salesman to look up his prospective boss. H. E. Pettingill. Ptr Ink 130:25-6+ Mr 19 '25
How to apply for a job. E. F. Etchells. Cassier's Ind Management 12:410 Ag '25
Letters that sell service. E. B. Miller. Prof Eng 9:12-15 My '24
What is the letter of application worth? D. A. Laird. Ind Management 67:336-42 Je '24

See also Employment systems

APPRAISALS. See Valuation

APPRENTICES
Annual convention of apprentice instructors, A. T. & S. F. Ry., Albuquerque, N. M., May 19-22. Ry R 74:1254-5 Je 28 '24; Ry Age 76:1824-5 Je 28 '24
Annual convention, 4th, of apprentice instructors, A.T. & S.F.Ry., San Bernardino, Calif., April 23-24. Ry Mech Eng 99:362-3 Je '25; Ry R 76:1019 Je 6 '25
Apprentice. W. Muntz. Sheet Metal Worker 15:537-8 Ag 1 '24
Apprentice course is established at the boys' vocational school, Newark, N.J. il Iron Tr R 75:413-14 Ag 14 '24
Apprentice education in the building trades. Eng & Contr (Bldgs) 61:483 F 27 '24; Excerpt. Eng N 91:906 N 29 '23
Apprentice education in the construction industry. (Bul. no. 92) 45p U.S. Federal board for vocational education, Washington, D.C. '24
Apprentice makes constructive suggestions. H. L. Price. Ry Mech Eng 98:86-7 F '24
Apprentice system revived in building industries. Comm & Fin Chr 117:2277 N 24 '23
Apprentice system that works. F. C. Henry. Am Mach 60:624 Ap 24 '24
Apprentice training and the Milwaukee system. Iron Age 114:1104-6 O 23 '24
Apprentice training in South Australia. Int Labour R 12:270-2 Ag '25
Apprentices repair gondola unaided. il Ry Mech Eng 99:511-12 Ag '25; Ry R 77:210-11 Ag 8 '25
Apprentices trained by the government. F. M. Huddlestun. il Inland Ptr 75:266-8 My '25
Apprenticeship and vocational education. F. Cushman. Sheet Metal Worker 15:601-2+ Ag 29 '24
Apprenticeship in the building trades. Monthly Labor R 18:496-7 Mr '24
Apprenticeship in the building trades in Washington, D.C. M. Conyngton. Monthly Labor R 20:1-7 Ja '25
Apprenticeship in the building trades of Boston. W: S. Parker and others. Boston Soc C E J 10:381-403; Discussion. 403-10 N '23
Apprenticeship in the pulp and paper industry. Paper Tr J 78:49 Ja 10 '24
Apprenticeship in the Royal ordnance factories. G. W. Tripp. Engineer 139:372-3 Ap 3 '25
Apprenticeship in Wisconsin. Monthly Labor R 21:429 Ag '25
Apprenticeship law of New Zealand. Monthly Labor R 19:1163-5 N '24
Apprenticeship methods on the Santa Fe. il Ry Mech Eng 98:355-9, 415-18, 467-72, 527-31 Je-S '24; Discussion. 98:654-5 N '24
Apprenticeship on German state railroads and in the Berlin metal industry. Monthly Labor R 18:1110-12 My '24
Apprenticeship problem. A. Eyles. Mach 31: 462 F '25
Apprenticeship system in a large Paris department store. J. Lesser. Taylor Soc Bul 10:206-7 Ag '25
Apprenticeship training in Pittsburgh. W. C. Markle. Sheet Metal Worker 15:638-9 S 12 '24
Apprenticeships as waste savers. H. A. Frommelt. Am Ind 25:17-19 Je '25
L'apprentissage. C: Quillard and others. Soc Ing Civils Bul 76:1172-1281 O '23; Abstract. Génie Civil 83:523-5 N 24 '23
Die ausbildung des nachwuchses im maschinenbau. Zeit Ver Deutsch Ing 69:813-14 Je 13 '25
Combined shop and school plan solves apprenticeship problem. H. L. Pierce. il Foundry 53:688-9 S 1 '25
Community apprentice training; how the metal-working concerns in Milwaukee cooperate. H. A. Frommelt. il Mach 31:801-2 Je '25
Compulsory apprentice training in South Australia; abstract. C: Fenner. Monthly Labor R 20:697-9 Mr '25
Convention of apprentices, Atchison, Topeka & Santa Fe Ry. Ry R 74:685-6 Ap 12 '24
Co-ordinating employe training; abstracts. L. A. Hartley. Iron Tr R 76:1451-4 Je 4 '25; Iron Age 115:1647-9 Je 4 '25; Automotive Ind 52:1026-7 Jl 11 '25; Foundry 53:522-5 Jl 1 '25
Cutting tomorrow's labor costs. H. A. Frommelt. il Iron Age 115:1773-4 Je 18 '25
Le développement de l'apprentissage à l'atelier, sa réalisation à la Compagnie du chemin de fer de Paris à Orléans. M. Lacoin. Génie Civil 86:49 Ja 10 '25
Discuss apprenticeship at the spring meeting of the American society of mechanical engineers. Iron Age 115:1662 Je 4 '25
Duquesne light company trains engineers. R. L. Kirk. Elec W 84:1354-6 D 27 '24
Educating the apprentice. G: F. Reeke. Dom Eng 109:24+ D 6 '24
Education of printing apprentices in Cincinnati. J. M. Thomssen. Inland Ptr 74:248-9 N '24
Encouraging apprentices by competitive methods. E. D. Austin. Ry Mech Eng 98:213 Ap '24
English apprenticeship of thirty years ago. A. Silvester. Am Mach 60:663-4 My 1 '24
Experiment in apprenticeship; a survey of a New England paper company's attempt to introduce technical experience into the operating department. R. G. MacDonald. Paper 34:1005-7 S 18 '24
Filling the ranks of machinists. J. C. Spence. Am Mach 60:473-4 Mr 27 '24
Four methods of training machinists. Iron Tr R 75:1109-10 O 23 '24
French foundry apprentices. H: M. Lane. Iron Age 112:1723 D 27 '23; Same cond. Brass W 20:71 F '24
Heating and piping contractors—this is your job! Heat & Ven 22:75-6 My '25
Helpful suggestions from Canadian apprentice. F. O. Robinson. Ry Mech Eng 98:153-4 Mr '24
How employers' associations view apprenticeship training. G. F. Meyne. Am Mach 62: 379 Mr 5 '25
How Mesta makes molders. R. A. Peebles. Foundry 52:881-4 N 15 '24; Same. Iron Tr R 75:1570-2+ D 11 '24

APPRENTICES—*Continued*
How the Milwaukee road is training apprentices. C. G. Juneau. Ry R 76:1013-17 Je 6 '25
Industry's interest in industrial training. M. W. Alexander. Mech Eng 47:94-6; Discussion. 101-2 F '25
Keeping tabs on the apprentice. H. A. Frommelt. Iron Age 116:208-9 Jl 23 '25
Making industry attractive to high school and college students. R. L. Sackett. Mech Eng 46:482-3 Ag '24
Making the skilled mechanic of tomorrow. F: A. Pope. il Ind Management 67:363-7 Je '24
Management principles of apprenticeship. H. A. Frommelt. Ind Management 69:76-8, 206-7, 306-8, 365-7 F, Ap-Je '25
Milwaukee vocational school solves training of apprentices. il Iron Tr R 75:1018-22 O 16 '24; Same. Foundry 52:752-7 O 1 '24
Modern apprenticeship. H. A. Frommelt. il Am Mach 62:145-8 Ja 22 '25; Discussion. C: E. Dawson. 62:455-6 Mr 19 '25
Modern apprenticeship program. H. A. Frommelt. Brass W 20:430-2; 21:26-7 D '24-Ja '25
Modernized apprentice system; how apprentices are trained by the Warner & Swasey co. il Mach 30:415-18 F '24
National apprentice training plan. Sheet Metal Worker 16:407-8 Jl 3 '25
National apprenticeship program. Mech Eng 47:624-6 Ag '25
National apprenticeship program. H. S. Falk. Mech Eng 47:416-18 sec 2 My '25
Need for district organization of modern apprenticeship; Milwaukee plan. H. A. Frommelt. Mech Eng 47:96-8; Discussion. 101-2 F '25
New apprenticeship plan. E. L. Bowman. Sanitary & Heat Eng 101:142-3 Mr 7 '24
New apprenticeship regulations in New South Wales. Monthly Labor R 17:1410 D '23
New Jersey apprenticeship plan. Sheet Metal Worker 16:230+ My 8 '25
Painter apprenticeship system. J. W. Gibbons. Ry R 77:530 O 3 '25
Payment of operatives during a training period. Harvard Business R 2:241-8 Ja '24
Plumbing apprentice; report of the apprenticeship committee of New York. Sanitary & Heat Eng 101:250-1 Ap 18 '24
Practical apprenticeship plan. Sheet Metal Worker 15:731-2 O 10 '24
Practical suggestions as to apprenticeship. W. L. McGowan. Ry Mech Eng 98:11-12 Ja '24
Practical training for foundry work. C. M. Morrin. il Iron Age 116:1103-5 O 22 '25
Principles of apprenticeship. A. W. Forbes. Am Mach 61:58, 419-20 Jl 10, S 11 '24
Problem of apprenticeship. E. L. Bowman. Sanitary & Heat Eng 100:314-15 N 16 '23; Same. Dom Eng 105:279-80 N 10 '23
Problem of the boy. E. N. Simons. Cassier's Ind Management 11:127-9 Mr 6 '24
Le probleme de l'apprentissage et de l'orientation professionnelle aux Etats-Unis. R. Vrinat. Génie Civil 87:152-4 Ag 15 '25
Progress in the movement for apprenticeship training. A. W. Dickson. Eng & Contr (Bldgs) 62:701-3 S 24 '24
Proper training for apprentices. diags Sheet Metal Worker 14:902-3 D 21 '23
Protection of apprentices in Austria. Monthly Labor R 20:1175-7 My '25
Railroad apprenticeships in a national training plan. F. W. Thomas. Mach 31:989 Ag '25
Recruiting and training apprentices. E. L. Bowman. Sanitary & Heat Eng 101:39-41 Ja 25 '24
Replacement troops for our industrial army. H. S. Hall. Am Mach 62:349-50 F 26 '25
Report of the committee on apprenticeship. Sanitary & Heat Eng 104:11-13 Jl 10 '25
Report of vocational education committee. H. A. Daniel. Sheet Metal Worker 15:454-6 Jl 4 '24
Securing and training apprentices. J. S. Cassedy. Sanitary & Heat Eng 101:249-50 Ap 18 '24
Side lights on the apprenticeship problem. E. D. Vandenberg. Sanitary & Heat Eng 102:20-2 Jl 11 '24
Solving the apprenticeship question. Sanitary & Heat Eng 100:376+ D 14 '23
Square pegs and round holes. H. A. Frommelt. il Iron Age 116:25+ Jl 2 '25
Suggestions as to special apprenticeship. R. Eckart. Ry Mech Eng 98:15 Ja '24
Trade apprenticeship. 64p American management assn., New York '24
Training apprentices. Ry Age 76:1275-6 My 24 '24; Same. Ry Mech Eng 98:498 Ag '24
Training apprentices; proper relationship between school instructors and shop foremen adds to value of training. C. Y. Thomas. il Ry R 74:847-8 My 10 '24
Training course develops power plant personnel at the Falk corporation. H. A. Frommelt. Power Pl Eng 29:549-50 My 15 '25
Training for industry; papermaking. W. G. MacNaughton. Paper Tr J 78:49-50 F 7 '24
Training foundry apprentices. L. A. Hartley. Iron Tr R 77:818-19 O 1 '25
Training machinists in the Reo plant. C: O. Herb. il diag Mach 31:847-51 Jl '25
Training of apprentices. J: Purcell. Cassier's Ind Management 11:471-2, 501 N-D '24
Training of apprentices in evening schools. R. C. Woods. Elec R (Lond) 94:89-90 Ja 18 '24
Training the industrial apprentice. C. M. Morrin. il Am Mach 62:993-6 Je 25 '25
Trains own staff of molders. il Foundry 52:217-20+ Mr 15 '24
Unions participate in training boys. F. F. Moran. Iron Tr R 73:1426 N 22 '23
Vocational training for apprentices. W. C. Markle. Sheet Metal Worker 15:456-7+ Jl 4 '24
What an apprentice thinks. Foundry 52:917-19+ D 1 '24; Same. Iron Tr R 75:1641-3 D 18 '24
What does the apprentice think on apprentice training? Dom Eng 109:24 D 27 '24
White collars versus overalls. H. A. Frommelt. Iron Age 115:1723-4 Je 11 '25
Wisconsin apprenticeship plan. Sheet Metal Worker 16:43-4 F 27 '25
Younger men tell of opportunities at a meeting of the New York railroad club. Ry Age 79:795-801 O 31 '25
Your indentured apprentice. R. G. Bookhout. Sanitary & Heat Eng 102:406-7+ D 12 '24

See also Corporation schools; Employees, Training of; Industrial education; Trade schools

APRICOT
Non-volatile acids of the dried apricot. E. K. Nelson. Am Chem Soc J 46:2506-7 N '24

AQUARIUMS
Steinhart aquarium, San Francisco. il Arch Forum 43:7-8, pl 7-8 Jl '25

AQUEDUCTS
City of Washington builds nine-mile aqueduct. il plan map Eng N 95:88-93 Jl 16 '25
Leading a river across the desert. E: C. Crossman. il Sci Am 132:92-3 F '25
Los Angeles plans 268-mi. aqueduct from Colorado river. Eng N 94:560 Ap 2 '25
Practical engineering in ancient Rome. T: Ashby. Engineering 120:527-8, 560-1 O 23-30 '25

See also Catskill aqueduct; Water conduits

AQUEOUS pressure
Aqueous pressure of hydrated crystals; oxalic acid, sodium sulfate, sodium acetate, sodium carbonate, disodium phosphate, barium chloride. G. P. Baxter and W: C. Cooper, jr. Am Chem Soc J 46:923-33 Ap '24

ARABINOSE
Constitution of the normal monosaccharides. E. L. Hirst and G: J. Robertson. Chem Soc J 127:358-64 F '25
Relations between rotatory power and structure in the sugar group; the chloro- and bromo-acetyl derivatives of arabinose. C. S. Hudson and F. P. Phelps. Am Chem Soc J 46:2591-2604 N '24

ARABINOSE—*Continued*
Relations between rotary power and structure in the sugar group; the rotatory powers of the alpha and beta forms of methyl *d*-xyloside and of methyl *l*-arabinoside. C. S. Hudson. Am Chem Soc J 47:265-8 Ja '25
Synthesis of derivatives of γ-arabinose. S. Baker and W. N. Haworth. Chem Soc J 127:365-9 F '25

ARACHIDIC acid
Synthesis of arachidic acid and some long-chain compounds. N. K. Adam and J. W. W. Dyer. Chem Soc J 127:70-3 Ja '25
See also Eicosanic acid

ARAGONITE
Orthorhombic space group criteria and their application to aragonite. R. W. G. Wyckoff. Am J Sci 5th ser 9:145-75 F '25
Thermodynamic properties of calcite and aragonite. H. L. J. Bäckström. diag Am Chem Soc J 47:2432-42 O '25

ARBITRATION
Arbitrating foreign trade disputes. E. Carolan. Nation's Business 13:70 F '25
Arbitration in the wool textile trade—the Franco-British agreement. Textile Inst J 15: P584-6 N '24
Arbitration law of New York; validity of clause in reinsurance contracts with foreign companies. Spectator 112:3-4+ My 1 '24; 114: 3 F 5 '25
Arbitration law; principles of Pennsylvania's new act. Eng & Contr (G C) 64:642 S 16 '25
Arbitration takes a hand in foreign trade disputes. Ptr Ink 131:33-4+ My 7 '25
Breakdown of arbitration in an Anglo-American reinsurance controversy. A. R. Marsh. Econ W n s 28:236 Ag 16 '24
Business arbitration extended by recent events. Iron Tr R 76:1099-1100 Ap 23 '25
Business turns its back on litigation. B. J. Duncan. Forbes 16:94-6 My 1 '25
Congress legalizes arbitration. Comm & Fin 14:889-90 My 6 '25
Congress provides for enforcing decisions in arbitration cases. Sales Management 8: 453+ Mr 21 '25
Importance of standardizing arbitration as a method of settling trade disputes. A. J. Wolfe. Econ W n s 28:79-80 Jl 19 '24
Law as to architecture. C. H. Blake, jr. Am Arch 128:149-50 Ag 12 '25
Let's arbitrate it. Ptr Ink 132:101-4 Ag 20 '25
"Let's arbitrate" to take place of "go ahead and sue." R. R. Clevenger. il Sales Management 7:1491+ S '24
New method of tenancy disputes adjustment in Japan. Int Labour R 11:381-8 Mr '25
Our Federal trade arbitration law pleases Europe. Annalist 25:742 Je 1 '25
Relation of Mutual adjustment bureau to trade. J. J. Nevins. il Textile World 65: 761-2 F 2 '24
Some pitfalls of the arbitration of international commercial disputes. A. J. Wolfe. Econ W n s 28:154-5 Ag 2 '24

ARBITRATION, Industrial
Arbitration in the newspaper industry, Milwaukee. Monthly Labor R 18:99-110 Ja '24
Arbitrations have favored neither party. Elec Ry J 64:992 D 13 '24
Canada's industrial disputes act. Nation's Business 13:66-7 Mr '25
Canadian industrial disputes investigation act amended. Monthly Labor R 21:656-8 S '25
Collection of decisions presenting principles of wage settlement. H. Feis, ed. 452p [bibliog. p. 441-52] H. W. Wilson co. '24
Colorado industrial law. W: I. Reilly. Min Cong J 11:20-2 Ja '25
Compulsory adjustment of industrial disputes in Germany. F. Sitzler. Int Labour R 12: 457-66 O '25
Compulsory arbitration held unconstitutional. Bradstreet's 53:257 Ap 18 '25
Compulsory arbitration in Norway. J: Castberg. Int Labour R 11:15-38 Ja '25
Conciliation and arbitration. Published in monthly numbers of Monthly labor review
Conciliation and arbitration of labor disputes in the Netherlands. Monthly Labor R 21: 658-60 S '25
Constitutionality of industrial disputes investigation act of Canada. Monthly Labor R 20:1156-9 My '25
Dissatisfaction in Germany with conciliation and arbitration system. Monthly Labor R 21:201-2 Jl '25
Industrial conflict, the way out. G: N. Barnes. 100p Pitman '24
Industrial round table for conciliation in labor disputes. M. M. Marks. Monthly Labor R 20:1211-20 Je '25
Judicial proceedings respecting constitutional validity of the Industrial disputes investigation act, 1907, and amendments of 1910, 1918 and 1920. 304p Canada Dept. of labour, Ottawa '25
Judicial status of arbitration of public utility labor disputes. E. W. Morehouse. J Land & Pub Util Econ 1:375-9 Jl '25
New arbitration machinery in Germany. B. Stern. Monthly Labor R 18:1204-7 Je '24
See also Courts, Industrial; Strikes and lockouts; Trade agreements

ARBITRATION, International
See Permanent court of international justice

ARBITRATION foundation, inc.
To promote arbitration in business. Bradstreet's 53:209 Mr 28 '25

ARBORS and mandrels
Adjustable mandrel for locomotive crosshead. H. H. Henson. il diags Mach 30:634 Ap '24
Air-operated compensating mandrel for holding pistons. A. J. Cayouette. diag Am Mach 60:411 Mr 13 '24
Collapsible mandrel for babbitt bearings. J: March. diags Am Mach 62:438-9 Mr 12 '25
Cutting airplane-starter spring from solid metal. P. T. Ash. il diags Am Mach 62: 538 Ap 2 '25
Expanding arbor for milling cutters. M. Wright. il Am Mach 60:374 Mr 6 '24
Expanding arbor for turning locomotive tires. diag Ry Mech Eng 98:252 Ap '24
Expanding stub arbors for small jobs. H. L. Wheeler. diags Am Mach 63:361-2 Ag 27 '25

Manufacture
Equalized drive for milling machine arbors. O. S. Marshall. diag Mach 31:730 My '25

ARC lamps. See Electric lamps, Arc

ARC welding. See Electric welding, Arc

ARCA regulator
Arca automatic regulator. T. Lindsay. Gas J (Lond) 165:146-7 Ja 16 '24
Arca regulators at the British Empire exhibition. il diags Engineering 117:714-16 My 30 '24
Automatic regulators. il diags Engineer 139: 351-2 Mr 27 '25
Hydraulic regulator control; the Arca automatic regulator. il diag Iron Age 114:382-3 Ag 14 '24; Power 60:229-30 Ag 5 '24

ARCADES
Building-arcades afford motor-vehicle loading and parking facilities. F. S. Besson. il Soc Auto Eng J 15:105 Jl '24
City replanning. H. W. Corbett. il Pub Works 55:258-60 Ag '24
Increasing the capacity of existing streets. A. S. Tuttle. il Am Soc C E Pro 50:600-5 My '24; Same. Eng & Contr (R & S) 62: 11-12 Jl 2 '24; Discussion. Am Soc C E Pro 50:706-27 My '24

ARCHEOLOGY
Airplane and archæology. Sci Am 130:282 Ap '24
See also Egypt—Antiquities

ARCHES
Build ye better. E. McCullough. il Bldg Age 46:61-2+ Je '24
Calcul de l'arc à appuis mobiles avec tirant. G. Prudon. diags Génie Civil 85:256-8 S 20 '24

ARCHES—*Continued*
Calcul de l'arc à deux rotules équilibré par un chaînage polygonal. C. Molitor. diags Génie Civil 84:105-9 F 2 '24
Calcul de l'arc parabolique, doublement encastré, appliqué en particulier aux voûtes surbaissées. L. Légens. diags Génie Civil 87:250-3, 268-71 S 19-26 '25
Calcul de la poussée d'un arc sur ses appuis mobiles avec ou sans tirant. G. Prudon. diags Génie Civil 84:203-5 Mr 1 '24
Calcul des arcs soumis à des forces obliques. Rogoff. Génie Civil 87:165-8 Ag 22 '25
Calcul des barrages en arc; voûtes circulaires soumises à des pressions hydrostatiques. F. Carton. diags Génie Civil 85:192-5 Ag 30 '24
Design of a multiple-arch system and permissible simplifications. A. C. Janni. diags Am Soc C E Pro 50:755-94, pl 2-4 Ag '24; Discussion. 50:1315-18, 1516-26, 1582-95; 51: 93-129 O '24-Ja '25
Early American details; a series of measured drawings. R. Buckler. Arch Forum 41:199-202 O '24
Formulas for elliptical arches. F. A. Smith. diags Eng & Contr (W W) 61:769-70 Ap 9 '24
Note sur le calcul rapide des arcs paraboliques. G. Dozoul. diags Soc Ing Civils Bul 76:1019-62, tables A-J, pl 55-61 Jl '23
Reactions for a particular type of unsymmetrical arch. C. B. Andrews. diags Am Soc C E Pro 49:1685-98 O '23; Discussion. 49: 2082-8; 50:503-4 D '23, Ap '24
17th Paris prize of the Society of Beaux-arts architects; monumental entrance to a thoroughfare. il Am Arch 125:207-10 F 27 '24

See also Bridges, Arched

ARCHES, Concrete
Analysis of the stresses in the ring of a concrete skew arch. J. C: Rathbun. il diags Am Soc C E Pro 50:133-74 F '24; Discussion. 50:559-60, 679-705 Ap-My '24
Design of symmetrical concrete arches. C. S. Whitney. diags Am Soc C E Pro 50:1327-1425 N '24; Discussion. 51:422-33, 654-76, 900-1 Mr-My '25
Girder discarded for arch in grade separation. il diags Eng N 95:503 S 24 '25
Progress report of the A.S.C.E. special committee on concrete and reinforced concrete arches. Am Soc C E Pro 50:[Soc aff]290-5 Mr '24
Progress report of the special committee on concrete and reinforced concrete arches. Am Soc C E Pro 51:[Soc aff]129-34 Mr '25
Reinforced concrete arch in sewer construction: a review of past practice in design and an account of recent studies in St. Louis, Missouri. C: E. Sharp, jr. diags Am Soc C E Pro 51:1082-1113 Ag '25
Temperature deformations in concrete arches. H. Cross. Eng & Contr (Bldgs) 64:927-8 O 28 '25
Temporary hinges in concrete arch ribs. J. F. Brett. Eng N 95:766 N 5 '25

ARCHITECTS
The architect. I. K. Pond. Am Arch 125:323-6 Ap 9 '24
Architect and the building manager. W: M. Ellis. Arch Forum 41:135-6 S '24
Architect and the church building committee. G: E. Merrill. Arch Forum 40:161-3 Ap '24
Architect, landscape architect, and decorator. F. Kimball. Arch Rec 55:499-500 My '24
Architects and industrial building. J. P. H. Perry. Concrete 23:189-91 N '23; Same. Eng & Contr (Bldgs) 61:465-9 F 27 '24
Architect's business contact with hotel projects. C. S. Taylor. Arch Forum 39:243-4 N '23
Architectural practice, international and interstate. W: P. Bannister. Am Arch 126:565-6 D 17 '24
Architecture as a commodity. W: R. Greeley. Am Arch 126:129-32 Ag 13 '24
Beating the architect. Am Inst Arch J 12: 27-8 Ja '24
Building up a small city practice. W. O. Kruse. Am Arch 126:95-7 Jl 30 '24
Can the architect be sold on gas heating—and how? S: Warren. Gas Age 55:533-4+ Ap 11 '25
Canons of ethics for architects. Eng & Contr (Bldgs) 64:686 S 23 '25
Choice of an architect. C. H. Blackall. Am Arch 128:325-6 O 5 '25
Clients. P. Waterhouse. Am Arch 126:79-80+ Jl 16 '24
Do you believe in architects? Am Inst Arch J 13:373-5 O '25
Fire prevention and the architect. G. E. Stecher. Safety Eng 49:9-11 Ja '25
How shall the young architect commence the practice of architecture? A. C. Holden. il plans Am Inst Arch J 13:335-8 S '25
Inconsistencies of architects. R. M. Cope. Eng & Contr (Bldgs) 64:209-13 Jl 22 '25; Excerpts. Arch & Bldg 56:115-16 D '24; Discussion. W. H. Scales. Eng & Contr (Bldgs) 64:455-7 Ag 26 '25
Letters from an architect to his son about to begin practice in a small city. F. E. Wallis. Am Arch 123:443-5, 535-7; 124:239-40, 417-18; 125:33-5 My 23, Je 20, S 12, N 7 '23, Ja 2 '24
Library of the architect. A. L. Kocher. Arch Rec 56:123-8, 218-24, 316-20, 517-20; 57:29-32, 125-8, 221-4, 317-20 Ag-O, D '24-Ap '25
Locality and humility; the first regional conference of the sixth district. C: H. Whitaker. Am Inst Arch J 11:417-19 N '23
Los Angeles architects combine for public service. S. P. Trood. Eng N 95:312-13 Ag 20 '25
Material salesmen and the architect. R. W. Blodgett. Eng & Contr (Bldgs) 62:1191-2 N 26 '24
Notes on nature fakers. H. F. Cunningham. Am Arch 127:261-2 Mr 25 '25
Practice of architecture: an economic view. H. Taylor. Arch Forum 40:71-4 F '24
Question of soliciting commissions and submitting sketches; discussion. Am Inst Arch J 13:117-21 Ap '25
Recognizing the profession of architecture. Am Arch 126:sup12 D 3 '24
Salesmanship in architectural practice. H. Taylor. Arch Forum 40:205-8 My '24; Same. Eng & Contr (Bldgs) 61:1398-1402 Je 25 '24
Services of an architect. C. E. Schermerhorn. Eng & Contr (Bldgs) 61:211-12 Ja 23 '24
Tulsa architects speak out loud concerning periodicals running plan service bureaus. Am Arch 127:370 Ap 22 '25
Woman architect speaks her mind on building speculation. A. Walton. Am Arch 128:12+ Jl 29 '25

See also Advertising—Architects, Appeal to; Architects' offices; Architectural education; Architecture; *also* names of architects, e.g. Bacon, Henry; Barber, Donn; Goodhue, Bertram Grosvenor; Hewitt, William D.; LeBrun, Pierre L.; Sullivan, Louis; Wight, Peter B.

Accounting
Cost accounting for architects. H. P. Van Ardsall. Am Arch 125:573-7; 126:11-15 Je 18-Jl 2 '24

Advertising
"Home, sweet home" as architects should sing it. A. Stote. Ptr Ink 131:85-6+ Ap 16 '25
Publicity for the architect. H. Taylor. Arch Forum 39:185-8 O '23; Same abr. Eng & Contr (Bldgs) 60:1145-7 N 28 '23

Directories
Key to the architects of Chicago. Scribner '24

Fees
Law as to architecture. C. H. Blake, jr. Am Arch 127:333-4 Ap 8 '25

Law
Architect and the law. L. Childs. Arch Forum 41:17-20 Jl '24
Architect's law manual. C. H. Blake, jr. 253p Pencil points press, New York '24

ARCHITECTS—Law—*Continued*

Basis on which compensation as architect is to be computed. C. H. Blake, jr. Am Arch 124:421-2 N 7 '23

Law as to architecture. C. H. Blake, jr. Am Arch 124:525; 125:15-16, 159-60, 245, 361-2, 455, 529-30; 126:37-8, 255, 343-4, 459-60, 545; 127:41-2, 127-9, 223-4, 333-4, 437-8, 529-30; 128:sup 12+, 149-50, 237-8, 335, 419 D 5 '23, Ja 2, F 13, Mr 12, Ap 9, My 7, Je 4, Jl 2, S 10, O 8, N 5, D 3 '24, Ja 14, F 11, Mr 11, Ap 8, My 6, Je 3, Jl 1, Ag 12, S 9, O 5, N 5 '25

Law of architecture and building. C. H. Blake, jr. 2d ed. 349p W: T. Comstock co., New York '25

May owner re-use plans prepared for him? A. L. H. Street. Bldg Age 47:160+ Je '25

See also Architects—Licenses and registration

Licenses and registration

Cost of registration. Arch Rec 55:108 Ja '24

Cost of registration. W: P. Bannister. Arch Rec 55:598-9 Je '24

Law as to architecture. C. H. Blake, jr. Am Arch 126:343-4 O 8 '24

Registration law enforcement. W: P. Bannister. Am Arch 127:235-6 Mr 11 '25

Registration laws. W: P. Bannister. Am Arch 126:363-4 O 22 '24

Registration tangle. Arch Rec 54:587 D '23

ARCHITECTS' club of Chicago

Architects' club of Chicago. Am Inst Arch J 13:35 Ja '25

John J. Glessner house. il Am Arch 127:11-12 Ja 14 '25

ARCHITECTS' offices

Office of Dwight James Baum, architect, Riverdale, New York city; views and plan Am Arch 126:pl 189-92 D 3 '24

Management

Architect's office. E. Bergstrom. Am Inst Arch J 12:28-34 Ja '24

Manual of office practice for the architectural worker. F: J. Adams. Rev. & enl. 96p Scribner '24

ARCHITECT'S small house service bureau

How shall the established architect insure his practice? A. C. Holden. Am Inst Arch J 13:375-7 O '25

How shall the young architect commence the practice of architecture? A. C. Holden. il plans Am Inst Arch J 13:335-8 S '25

Outside business factors as competitors of the architect. A. C. Holden. diags Am Inst Arch J 13:308-10 Ag '25

Small house. E. H. Brown. Am Inst Arch J 13:385-6 O '25

Small house question. Am Inst Arch J 13: 409-11 N '25

ARCHITECTURAL draftsmen

Architectural draftsman. Am Arch 127:493-4 Je 3 '25

ARCHITECTURAL drawing

Drafting-room mathematics. D. C. Pond. 153p Scribner '24

Exhibition of American working drawings. Am Arch 127:349 Ap 8 '25

Problems in architectural drawing. F. G. Elwood. 131p Manual arts press '24

See also Architectural rendering; Architecture—Sketches; Blueprints

ARCHITECTURAL education

International conference, London, July 28-August 2. H. C. Bradshaw. Am Inst Arch J 12:412-14 S '24

See also Architecture—Study and teaching

ARCHITECTURAL league of New York

Annual exhibition. J: T. Boyd, jr. Arch Rec 55:303-4 Mr '24

Interior architecture at the League exhibition. il Am Arch 125:156-8 F 13 '24

Thirty-ninth annual exhibition. Am Arch 125: 139-48, 152a-h, 160a-h, 170, 178-80, sup 16 F 13 '24

ARCHITECTURAL models

Scale models. L. Grumbine. Eng & Contr (Bldgs) 64:199-202 Jl 22 '25

Using a model to secure financing. il plans Bldg Age 46:104 My '24

ARCHITECTURAL photography. See Photography, Architectural

ARCHITECTURAL rendering

Appreciation of the renderings of Otto R. Eggers, architect. S: Chamberlain. il Am Arch 128:39-42 Jl 15 '25

Architectural renderings. R. von Ezdorf. il Am Arch 127:1-8 Ja 14 '25

Etching as a medium of architectural expression. S: Chamberlain. il Am Arch 128:119-22, pl 212-17 Ag 12 '25

Lithographic processes in architectural illustration. S: Chamberlain. il Am Arch 128: 207-10, pl 236-42 S 9 '25

Lithography in architectural sketching and rendering. V. Hagopian. il Am Arch 127:131-4 F 11 '25

Notable discussion on rendering, at the Architectural league. L. V. Solon. Arch Rec 57:188-9 F '25

Renderer's job and its import. F. Weitenkampf. Arch Rec 56:580-3 D '24

Rendering of perspectives of interiors. il Am Arch 128:275-6 S 23 '25

Renderings. E. H. Lundie. Arch Rec 57:533-47 Je '25

Renderings of interiors made in the office of Carlhian, of Paris, decorators. il Am Arch 128:183-4 Ag 26 '25

Truth in architectural rendering. H. Ferriss. Am Inst Arch J 13:99-101 Mr '25

ARCHITECTURAL societies

See also American institute of architects

ARCHITECTURE

Ad deam decimam; in praise of architecture; poem. F. P. Sullivan. Am Inst Arch J 12: 497-500 D '24

Ancient and mediæval architecture. T. Pignatorre. 341p Drane's, London '24

Architectural construction. W. C: Voss and R. C. Henry. Wiley '25

Architecture and broad planning. R. Unwin and others. Am Inst Arch J 13:195-202+ Je '25

Architecture as a social complex. W: R. Greeley. Am Arch 128:267-70 S 23 '25

Architecture as a source of inspiration for the printer. J: J. Fisher. diags Inland Ptr 76:245-6 N '25

Architecture as an inspiration. W: R. Greeley. Am Arch 126:517-20 D 3 '24

Architecture as the vestal of the crafts. W: R. Greeley. il Am Arch 127:309-12 Ap 8 '25

Architecture of humanism; a study in the history of taste. G. Scott. 2d ed., rev. 265p Scribner '24

Beauty that was skin-deep; a study of the Byzantine idea. E. H. Bonta. il diags plans Am Inst Arch J 13:321-31 S '25

Build ye better. E. McCullough. il Bldg Age 46:58-9+ Ja; 84-7 F; 94-6 Mr; 112+ Ap; 69-70 My; 61-2+ Je; 49+ Jl; 52-3+ Ag; 53+ S; 53 O; 102+ N; 92+ D '24

Challenge; architecture and engineering. Am Inst Arch J 13:121-3 Ap '25

Conditions conducive to architecture. C: H. Moore. Arch Rec 58:211-15 S '25

Cours d'architecture et de constructions civiles. E. Arnaud. 5v Impr. des arts et manufactures, Paris '25

Definition in modern architecture. E. Swartwout. il Am Arch 125:7-10 Ja 2 '24

Elements of form and design in classic architecture. A. Stratton. 239p 100 pl Scribner '25

Everyday architecture. M. D. Robertson. 175p T. F. Unwin, ltd., London; McDevitt-Wilson's, New York '24

Existing conditions favorable to architecture. C: H. Moore. Arch Rec 58:386-90 O '25

Five architects and one truth. Am Inst Arch J 12:401-5 S '24

Good architecture a commercial asset. il Am Arch 128:365-6 O 20 '25

Laymen and the new architecture. M. D. Robertson. 205p J. Murray, London '25

ARCHITECTURE—*Continued*

Modern architecture. T: Hastings. Arch Forum 40:189-93 My '24; Same. Eng & Contr (Bldgs) 61:1391-7 Je 25 '24

Modernity in architecture. Am Arch 126:585-6 N 19 '24

The Parthenon; its science of forms. R. W. Gardner. 35p New York univ. press, 32 Waverly Place, New York '25

Pier and beam; a comparison of occidental and oriental architecture. E. Bonta. il diags plans Am Inst Arch J 13:43-60 F '25

Pleasures of architecture. C. Williams-Ellis and A. Williams-Ellis. 275p Houghton '24

Poetry of architecture. F. Rutter. 236p Doran '24

Principles of architectural composition by H. Robertson. Review, by H. S. Goodhart-Rendel. Am Inst Arch J 13:299-301 Ag '25

Restrictions imposed on architecture. Am Arch 127:263 Mr 25 '25

Revolutionary effect of concrete on architecture. B. Pite. Eng & Contr (Bldgs) 64:214-16 Jl 22 '25

Ruskin as critic of architecture. C: H. Moore. Arch Rec 56:117-22 Ag '24

Serlio's famous sixth book suddenly reappears at Columbia university. il Am Arch 127:331-2 Ap 8 '25

Some architectural problems of to-day. C: H. Reilly. 205p Hodder and Stoughton, ltd., London '24

Study in the vernacular. A. J. Penty. Am Inst Arch J 13:261-2 Jl '25

Touchstone of architecture. R. T. Blomfield. 245p Oxford '25

Travesty of architecture by the etcher of to-day. L. V. Solon. il Arch Rec 54:588-90 D '23

Tribute to the Marshall Field warehouse in Chicago, designed by Henry Hobson Richardson. L: Sullivan. Am Inst Arch J 13:102-3 Mr '25

Use of precedent in architectural design. W: L. Steele. Am Inst Arch J 12:265-9 Je '24

Value of precedent in the practice of architecture. R. A. Cram. Am Inst Arch J 12:263-5 Je '24; Same. Am Arch 126:567-9 D 17 '24

Value of tradition. Am Arch 124:443-4 N 7 '23

What is a style? F. P. Sullivan. Am Inst Arch J 13:414-15 N '25

Work of Josef Hoffmann. P. Behrens. il Am Inst Arch J 12:421-6 O '24

See also Acoustics, Architectural; Apartment hotels; Aquariums; Arcades; Arches; Architects; Architectural drawing; Architectural education; Armories; Art galleries and museums; Auditoriums; Automobile service stations; Balustrades; Bank buildings; Barns and stables; Barracks; Basements; Basilicas; Baths, Public; Bridges; Building; Building materials; Buildings; Capitol buildings; Castles; Cathedrals; Ceilings; Cellars; Chamber of commerce buildings; Charity organization buildings; Chimneys; Church architecture; Clocks; Cloisters; Clubhouses; College architecture; Color in architecture; Columns; Community centers; Concrete construction; Cornices; Cottages; Courthouses; Courts (architecture); Decoration and ornament, Architectural; Department stores; Domes; Doors; Doorways; Elks, Benevolent and protective order of—Temples; Entablatures; Exhibition buildings; Facades; Factories; Farm buildings; Finials; Fire houses; Fireproof construction; Floors; Foundations; Fountains; Fraternity houses; Friezes; Garages; Gates; Grain elevators; Gymnasiums; Halls; Hangars; Heating; High buildings; Homes, Institutional; Hospitals; Hotels; House boats; House painting; Houses, Remodeled; Housing; Housing projects; Industrial buildings; Insurance company buildings; Interior decoration; Ironwork, Architectural; Laboratories; Landscape gardening; Library architecture; Loft buildings; Machine shops; Market buildings; Masonic temples; Masonry; Memorials; Mercantile buildings; Mine buildings; Monuments; Mortuary chapels; Mosaic; Mosques; Moving picture theaters; Municipal buildings; Mural painting and decoration; Naval architecture; Newspaper offices; Normal schools; Nurses' homes; Office buildings; Orientation (architecture); Palaces; Parish houses; Park buildings; Partitions; Pediments; Pergolas; Photography, Architectural; Playgrounds; Plumbing; Police stations; Public comfort stations; Publishing buildings; Railroads—Buildings and structures; Railroads—Stations; Roofs; Schoolhouses; Sheet metal work, Architectural; Spires; Stadia; Stairways; Steel construction; Store buildings; Strains and stresses; Strength of materials; Studios; Swimming pools; Terra cotta; Theaters; Tombs; Towers; Trusses; Tuberculosis, Hospitals and sanatoriums for; Ventilation; Walls; Warehouses; Wells (architecture); Windows; Woodwork; *also* names of buildings, e.g. American radiator company building, N.Y.; Rosemary Hall, Greenwich, Connecticut; Straus, S. W., company building, Chicago; Wrigley building, Chicago; *also* subdivision Architecture under names of cities, e.g. Chicago—Architecture; London—Architecture; New York (city)—Architecture

Bibliography

Library of the architect. A. L. Kocher. Arch Rec 56:123-8, 218-24, 316-20, 517-20 Ag-O, D '24

Library of the architect; selected list of standard works relating to architecture and intended for offices of architects. A. L. Kocher. Arch Rec 57:29-32, 125-8, 221-4, 317-20 Ja-Ap '25

Competitions

Polish national alliance architectural competition. il plans Am Arch 126:280-4 S 24 '24

Prize winning drawings of the ideal cellar competition. il plans Arch Forum 43:193-200 O '25

Conservation and restoration

Preservation of St Paul's cathedral and other famous buildings. W: Harvey. 153p Architectural press, London '25

Designs and plans

Plans—in competition and in reality. E. Swartwout. Am Arch 126:413-21 N 5 '24

See also Architecture, Domestic—Designs and plans; Church architecture—Designs and plans; Hotels—Designs and plans; Naval architecture—Designs and plans; Schoolhouses—Designs and plans

Details

Architectural details. L: Rouillion and C: G: Ramsey. 131p Wiley '24

Characteristic details of the Georgian colonial style. il diags plan Am Arch 124:557-62 D 19 '23

Details from the library of the Hotel Gouthiere, Paris. il diags plans Arch Forum 41:307-10 D '24

Details of small Louis XIV salon, Compiegne. diags plans Arch Forum 42:57-62 Ja '25

Details of the salons. Chateau de Montfermeil, Paris; two simple interiors in the style of Louis XIV. C. H. Preston. diags Arch Forum 41:36-42 Jl '24

Early American details; a series of measured drawings. R. Buckler. Arch Forum 41:199-202 O '24

English parish church and its details; with measured drawings and photographs. R. M. Blackall. il plans Arch Rec 56:566-74; 57:77-86, 161-72, 276-82, 305-12, 463-73, 565-9; 58:19-25, 116-27, 223-32, 314-19 D '24-O '25

House of Carll Tucker, Mt Kisco, N.Y. il diags Arch Forum 42:9-16, pl 1-6 Ja '25

Interior details from Hotel Gouthiere, Paris. il diags plan Arch Forum 40:117-20 Mr '24

Italian renaissance details. il diags plans Arch Forum 39:23-5, 175-8, 281-4; 40:217-20 Jl, O, D '23, My '24

See also Columns; Cornices; Decoration and ornament, Architectural; Doors; Doorways; Fireplaces; Windows

ARCHITECTURE—*Continued*

Exhibitions

Architecture at the British Empire exhibition. H. J. Birnstingl. il plan Arch Forum 41:29-32, pl 9 Jl '24

Boston architectural exhibition. F. C. Brown. Arch Rec 55:500-2; 58:193-4 My '24, Ag '25

Building revealed as an art at the Architectural and allied arts exposition held in New York, April 20 to May 2, 1925. il Bldg Age 47:95-105+ Je '25

Exposition at Grand Central Palace. L. V. Solon. il 16 pls Arch Rec 58:26-64 Jl '25

Exposition of architecture and allied arts, New York, April, 1925. J: T. Boyd, jr. il Arch Forum 42:277-82 My '25

Exposition of architecture and the allied arts, New York. I. K. Pond. Am Inst Arch J 13:216-18 Je '25

International exposition of architecture and allied arts. Am Arch 127:415-22, pl 108-23, 124-35 My 6-20 '25

Thirty-ninth annual exhibition, Architectural league of New York. il Am Arch 125:139-48, 152a-h, 160a-h, 170, 178-80, sup 16 F 13 '24

See also Building trades—Exhibitions

History

History of architecture on the comparative method for students, craftsmen and amateurs. B. F. Fletcher. 7th ed., rev. and enl. 933p [bibliogs] Scribner '24

Story of architecture throughout the ages. P. L. Waterhouse. rev. ed. 272p [bibliog. p. 263-7] B. T. Batsford, London '24

Sketches

Drawings and sketches by T. MacLaren, A.I.A. J. F. Harbeson. Am Arch 127:267-8, pl 69-76 Mr 25 '25

Five sketches by Albert Kahn. Am Inst Arch J 13:90-4 Mr '25

Study and teaching

Architectural education. W: A. Boring. Am Arch 126:388 O 22 '24; Same. Arch & Bldg 56:99-100 O '24; Same. Eng & Contr (Bldgs) 63:883 Ap 24 '25

Architectural education in the United States. Am Arch 126:51-3 Jl 16 '24

New co-operative courses in architecture and the applied fine arts at the University of Cincinnati. H. Schneider. Am Arch 125:65-7 Ja 16 '24

Non-competitive methods of education in architecture. W. R. B. Willcox. Am Inst Arch J 11:423-4 N '23

Teaching of architecture in the United States. A. E. Ferran. Am Inst Arch J 12: 359-63 Ag '24; Discussion. P. R. Cret. 12: 409-12 S '24; T. E. Tallmadge. 12:449-50 O '24

See also Architectural education

California

Honor awards of the Southern California chapter, the American institute of architects. il plan Am Arch 127:15-24 Ja 14 '25

Old mission churches and historic houses of California; their history, architecture, art and lore. R. Newcomb. 379p Lippincott '25

Stores in the Spanish style. il Arch Forum 40:239-44 Je '24

See also Architecture, Domestic—California

Canada

Architecture in Canada. H. H. Kent. Arch Rec 55:205-6 F '24

China

Picturesque China, architecture and landscape. E. Boerschmann. 288p Brentano's '23

University of Nanking, China. il plans Am Arch 127:55-64 Ja 28 '25

England

Architect's auto tour of England. O. Z. Cervin. il map Am Arch 127:255-60, 313-16 Mr 25-Ap 8 '25

Architect's impressions of Oxford. H. F. Kellogg. il Arch Forum 42:219-20, pl 41-4 Ap '25

Architecture in England. C. Davenport. 154p Dutton '24

Greek revival; its manifestation in England. H. Major. il plan Arch Forum 40:105-10 Mr '24

Modern English architecture. C: Marriott. 267p [bibliog. p. 253-6] Chapman and Hall, ltd., London; Scribner, N.Y. '24

Regional architecture of the west of England. A. E: Richardson and C. L. Gill. 188p E. Benn, ltd., London '24

Smaller civil architecture of England. R. W. Ramsdell and H. D. Eberlein. il plans Arch Forum 41:25-8, 67-72, 173-6; 42:239-44, 317-22; 43:21-6 Jl-Ag, O '24, Ap-My, Jl '25

Working photographs. il (front) Am Arch 125:197-202p F 27 '24

See also Architecture, Domestic—England

Europe

Forum studies of European precedents; photographs. Arch Forum 41:176a-h O '24

France

Albi—a mediaeval town. A. Embury, jr. il Arch Rec 57:549-59 Je '25

Avignon. S: Chamberlain. il Am Arch 126:263-8 S 24 '24

Breton churches. A. Embury, jr. il Arch Rec 58:128-32 Ag '25

Details of the large hall Chateau de Montfermeil, Paris; drawn by C. H. Preston. il Arch Forum 41:81-6 Ag '24

Farm houses, small chateaux and country churches in France. A. di Nardo. 173p J. H. Jansen, Cleveland '24

Forgotten architectural motif: the Morlaix column. A. Embury. il diags plans Arch Rec 55:293-302 Mr '24

French and Spanish country churches. S: Chamberlain. il Am Arch 125:467-72 My 21 '24

French expression of modern architecture; the Church of Nôtre Dame, at Le Raincy, Seine-et-Oise. W: D. Foster. il diags plan Arch Rec 56:97-105 Ag '24

Street façades in Dijon. il Arch Forum 42: 244a-h, 328a-h Ap-My '25

See also Architecture, Domestic—France; Nancy, France; Paris—Architecture; Vaux-le-Viscomte, France

Germany

On Hans Poelzig by Hans Poelzig; a contribution to modern architecture. il plan Am Arch 128:253-63 S 23 '25

Greece

Little churches in Greece. G. G. King. il Am Inst Arch J 12:13-18, 23-4 Ja '24

Japan

Church at Nara. E. Bonta. il plans Am Inst Arch J 11:457-62 D '23

See also Architecture, Japanese; Earthquakes and building

Jugoslavia

Ivan Mestrovic, sculptor-architect; Racic mortuary chapel near Ragusa. K. Parkes. il Arch Rec 57:173-85 F '25

Maryland

Architectural ramble through Maryland. C. A. Ziegler. il Am Arch 125:237-44 Mr 12 '24

Mexico

Architectural pilgrimage in old Mexico. il Am Arch 125:327-30 Ap 9 '24

Netherlands

City planning in Holland. C: W. Eliot. il plans Arch Rec 56:276-82 S '24

New Mexico

Doorways of Penitente land. B. R. Gaastra. il Arch Rec 57:186-8 F '25

ARCHITECTURE—*Continued*

North Carolina

Some work of Aymar Embury II in the Sand Hills of North Carolina. R. J. Whitehead. il plans Arch Rec 55:505-68 Je '24

South Carolina

Architectural significance of the rice mills of Charleston. S: Lapham, jr. il Arch Rec 56:178-84 Ag '24

Development of Charleston architecture. A. Simons and S: Lapham, jr. il diag Arch Forum 39:153-60, 299-306; 40:33-40 O, D '23-Ja '24

See also Architecture, Domestic—South Carolina

Southern states

Recent architecture in the South. F. Kimball. il plans Arch Rec 55:209-71 Mr '24

Spain

Andalusian gardens and patios. M. Stapley and A. Byne. il Arch Rec 54:488-506; 55: 65-80, 177-93, 277-92, 373-87, 478-92, 569-85; 56:75-88, 161-77, 257-75 D '23-S '24

French and Spanish country churches. S: Chamberlain. il Am Arch 125:467-72 My 21 '24

Little tour in Spain. L: La Beaume. il Am Inst Arch J 12:47-62, 157-73, 379-92, 459-68; 13:81-9, 357-67 F, Ap, S, N '24, Mr, O '25

Passing glance at Spain. il Am Arch 126:43-8 Jl 16 '24

Renaissance in Spain. R. A. Cram. il Am Arch 125:289-96 Mr 26 '24

Spanish details. W: L. Bottomley. 4p, 104 pl W. Helburn, inc., New York '24

Spanish farm houses and minor public buildings; photographs and drawings. W. Soule. Architectural book pub. co., New York '24

Spanish Gothic. R. A. Cram. il Am Arch 125: 187-94 F 27 '24

Spanish notes. R. A. Cram. il Am Arch 125: 47-54 Ja 16 '24

See also Architecture, Domestic—Spain; Architecture, Spanish

Sweden

Swedish architecture of the twentieth century. H. Ahlberg. 41p, 24 l, 152pl [bibliog. p. 31-41] E. Benn., ltd., London '25; Review, by A. W. Colton. il Arch Rec 58:195-9 Ag '25

Turkey

Building in Turkey. E. A. Plitt. il Bldg Age 46:50-3 Jl '24

See also Mosques

United States

Louis Sullivan—an old master. F. Kimball. il Arch Rec 57:289-304 Ap '25

See also Architecture, American; Architecture, Domestic—United States; Mission buildings (Spanish); New York (city)—Architecture

ARCHITECTURE, American

America's national architecture. A. C. Bossom. il Am Arch 128:77-83 Jl 29 '25

Architecture in the United States. A. J. Penty. Am Inst Arch J 12:473-8 N '24

Early American details; a series of measured drawings. R. Buckler. Arch Forum 41:199-202 O '24

Greek revival; the American national expression. H. Major. il plan Arch Forum 40: 45-50 F '24

Imperial age. L. Mumford. Am Inst Arch J 12:366-71 Ag '24

Is American architecture plagiaristic? N. C. Curtis. Am Inst Arch J 12:483-5 N '24

Plagiarism as a fine art. H. Van B. Magonigle. Am Inst Arch J 12:257-60 Je '24; Same. Am Arch 125:515-18 Je 4 '24

Precedent and evolution. W. R. Greeley. Am Inst Arch J 12:447-8 O '24

Question of precedent. A. Kelsey. Am Inst Arch J 12:536-7 D '24

Speaking of precedent. H. Upjohn. il Am Inst Arch J 12:313-16 Jl '24

Sticks and stones, a study of American architecture and civilization. L. Mumford. 247p Boni & Liveright, 61 W. 48th st., New York '24; Review, by F: L. Ackerman. Am Inst Arch J 12:537-9 D '24; Review, by I. K. Pond. Am Arch 127:215-16 Mr 11 '25

Three centuries of American architecture. F. Kimball. Arch Rec 57:560-4 Je '25

What is precedent doing to American architecture? W: A. Boring. Am Inst Arch J 12: 260-3 Je '24; Same. Am Arch 126:277-9 S 24 '24

What is precedent doing to American architecture? H. V. Magonigle. Am Inst Arch J 13:370-3 O '25

What is the use of precedent doing to American architecture? W. R. B. Willcox. Am Inst Arch J 12:269-73 Je '24

Worthy traditions of American architecture. Arch Forum 40:132 Mr '24

See also Architecture—United States; Architecture, Colonial; Architecture, Domestic—United States

ARCHITECTURE, Baroque

Forum studies of European precedents; baroque doorways in Genoa. il Arch Forum 41: 300a-h D '24

ARCHITECTURE, Basque

Basque country. S: Chamberlain. il Am Arch 125:181-6 F 27 '24

ARCHITECTURE, Colonial

American colonial architecture. J. F. A. Jackson. 228p McKay '24

Carpenter's company organized in Philadelphia in 1724. C. A. Ziegler. il Am Arch 126: 313-18 O 8 '24

Characteristic details of the Georgian colonial style. il diags plan Am Arch 124:557-62 D 19 '23

Colonial details. J. F. Higgins. Arch Forum 42: 335-6 My '25

Colonial house. J. E. Chandler. Rev. ed. 222p R. M. McBride & co., New York '24

Conservation of a relic of colonial days; house of E. N. Wicht, Douglaston, L.I., N.Y. il plans Am Arch 126:285-92 S 24 '24

Early colonial hand forged iron work. M. S. Teller. il diag plan Arch Rec 57:395-416 My '25

Jacobean house in Virginia known as Bacon's Castle. D. Millar. il diags plans Arch Rec 57:285-8 Mr '25

Six old Virginia homes; photographs. il Am Inst Arch J 13:60-6 F '25

Small houses in the colonial style. H: B. Humphrey. il plans Arch Forum 42:329-34 My '25

ARCHITECTURE, Domestic

Architectural response to social change; passing of the Vincent Astor house. H. Croly. Arch Rec 58:186-7 Ag '25

Architectural tradition in New Orleans. N. C. Curtis and W: P. Spratling. il diags Am Inst Arch J 13:279-96 Ag '25

British may build cast iron houses. J. Horton. diag Foundry 53:115 F 1 '25

Britons enthusiastic over all-steel houses. J. Horton. il plans Iron Tr R 76:753-4 Mr 19 '25; Same. Blast F & Steel Pl 13:206-7 My '25

Build ye better; improvement in the arrangement of interiors E. McCullough. Bldg Age 46:92+ D '24

Cast-iron houses in England. Can Eng 49: 327 S 22 '25

Do the plans provide for musical instruments? G. D. Stodola. Arch & Bldg 56:118-19 D '24

Economy in home building. O. C. Hering. 210p Robert M. McBride & co., 7 W. 16th st., New York '24

English all steel house; Telford system. plans Eng & Contr (Bldgs) 63:877-80 Ap 24 '25

English cottage type dwelling. L. H. Lyon. il Arch Forum 42:33-6 Ja '25

Everyman's house. C. B. Crane. 226p Doubleday '25

House at Newport, R.I.; office sketch. Am Arch 124:458k-l N 21 '23

Medium cost house. E: B. Caldwell, jr. Am Arch 127:9-10 Ja 14 '25

ARCHITECTURE, Domestic—*Continued*

Mr Flagg proposes many interesting home innovations and puts his faith in concrete. H. Whipple. il diags Concrete 24:55-8 F '24

Reducing fire risk in residential construction; house of Wharton Clay, Winnetka, Ill. il plans Arch Forum 40:197-200 My '24

Small houses. G. Murtagh. 145p Doubleday '24

Spanish and Cairene houses. M. Stapley. il Arch Rec 58:165-79 Ag '25

Use of clay products in modern homes. R. B. Keeler. il Am Cer Soc J (Bul) 8:310-20 Jl '25

Use of half timber, stucco and brick shown in some recent work of Frank J. Forster. il plans Arch Forum 43:225-32 O '25

See also Apartment hotels; Apartment houses; Architecture, Colonial; Bathrooms; Bedrooms; Breakfast rooms; Brick houses; Bungalows; Castles; Closets; Clubhouses; Concrete construction; Concrete houses; Cottages; Country houses; Courts (architecture); Doorways; Dormitories; Farm buildings; Farmhouses; Fireplaces; Fraternity houses; Half-timbered houses; Heating; Historic houses; Houses, Remodeled; Housing; Housing projects; Interior decoration; Landscape gardening; Miners' houses; Palaces; Plumbing; Porches; Stairways; Steel houses; Tenement houses

Designs and plans

Adaptation of the Dutch colonial. Arch & Bldg 56:Dwelling house ser 20 O '24

Alterations and additions to house of Hugh J. Chisholm, Port Chester, N.Y. Am Arch 126:pl 185-8 D 3 '24

American bungalow homes. il plan Bldg Age 46:71-4 Ap '24

American country house. A. L. Kocher. il plans Arch Rec 58:401-512 N '25

American country house. R. F. Whitehead. il plans Arch Rec 54:393-424 N '23

American country house, the property of Arthur E. Newbold, jr., Laverock, Pa. A. I. Meigs. 30p 99 pls Architectural book pub. co., inc., New York '25

Artistic stucco residence; with quantity survey. plans Bldg Age 45:46-9 N '23

Beautiful homes of moderate cost. il plans Bldg Age 46:82-3 D '24

Beautiful homes, 200 plans. 276p Keith corporation, Minneapolis, Minn. '25

Beauty in numbers; Clarendon Hills development. il plans Bldg Age 47:95-9 O '25

Better homes at lower cost, 101 modern homes standardized. 107p Standard homes company, Detroit '25

Better homes in America. il plans Bldg Age 46:64-5 S '24

Blue print supplement and quantity survey. Bldg Age 46:112-14 D '24

Brick and stucco house of character. il plans Bldg Age 47:107 F '25

Builders' magic; old church becomes a house. il plans Bldg Age 47:96-7 Ja '25

Building good small houses. il plans Bldg Age 46:53-5 Je '24

Building modern homes in old Virginia. il Bldg Age 47:105-8+ My '25

Building plans for colonial dwellings, bungalows, cottages, and other medium cost homes. F: H: Gowing. 224p F. H. Gowing, Boston '25

Bungalow of sedate charm; blue print supplement and quantity survey. il Bldg Age 47:130-6 F '25

Camps, log cabins, lodges and clubhouses. F. E. Brimmer. 139p Appleton '25

Cement man and his architect, both build of concrete. il plans Concrete 26:56-7 F '25

Chimney dominates. il plans Bldg Age 47:94-5 Jl '25

Comely colonial house; with blue prints and quantity survey. Bldg Age 47:120-6 Ap '25

Competition for small structolite concrete houses and bungalows. Arch Forum 42:289-96 My '25

Complete working drawings and details of a five-room brick veneer house; blue print supplement. Bldg Age 46:128-36 N '24

Convertible type houses for the Queensboro corporation. Arch Rec 57:425-30 My '25

Covedale gables; residence of Mr William Lucking of Cincinnati, Ohio. Arch & Bldg 57:2, pl 12-15 Ja '25

Current country house architecture. R. F. Whitehead. Arch Rec 56:385-488 N '24

Derived from the Italian; blue prints and quantity survey. Bldg Age 47:90-6 N '25

Detail of a group of houses on Navajo street, St. Martin's, Pa. Am Arch 128:pl 209-11 Jl 29 '25

Dias Dorados—estate of Thomas H. Ince, Beverly Hills, California; views and plans. Arch Rec 56:45-55 Jl '24

Dignity and style in model home; Indianapolis builders co-operate. il plans Bldg Age 46: 58-9 S '24

Distinctive small house competition. Am Arch 127:145-52, 197-204 F 11-25 '25

Distinctive small house competition; details of costs and construction. Am Arch 127: 44-53 Ja 14 '25

Dwelling house series. Published in monthly numbers of Architecture and building

English and Dutch colonial serve these two homes. il plans Bldg Age 46:54-5 Ag '24

English cottage type dwelling with outline specifications, details and cost. Arch Forum 42:41-56 Ja '25

Examples of the use of half-timber patterns, stucco and brick. il plans Arch Forum 43: 233-48 O '25

Exposition house of concrete. M. D. Morrill. il diags plans Concrete 24:61-2 F '24

For the narrow lot; with quantity survey. il plans Bldg Age 46:56-9 Jl '24

Four good small house designs. il plans Bldg Age 46:72-5 Je '24

Fourteen-foot wide home; with blue prints and quantity survey. Bldg Age 47:144-52 My '25

Goodestone, house at Middleburg, Va.; views and plans. Arch Forum 40:131, pl 43-8 Mr '24

Group construction in Canada. il plans Bldg Age 47:124-5 Ja '25

Group of four houses at Chestnut Hill, Philadelphia, Pa. Am Arch 126:pl 141-3 O 22 '24

Group of houses on Crefelt street, St. Martin's, Pa. Am Arch 128:pl 182-3 Jl 1 '25

Half timbered gables feature this English home design. Bldg Age 46:124 N '24

Handsome home of old English architecture. C: A. Byers. il plans Bldg Age 46:80 Jl '24

Home building in other countries. il plans Bldg Age 46:115 D '24

Home design, by Wood construction bureau, Cleveland. 64p Cleveland board of lumber dealers, Cleveland '24

Home of your dreams. il plans Bldg Age 47: 132-3 S '25

Homes of character. R: L: Stevenson. 120p R. L. Stevenson, Boston '23

Homey Dutch colonial house. il plans Bldg Age 46:54-5 S '24

House at Bayville, L.I., N.Y. il plans Am Arch 125:400a-d, 401 Ap 23 '24

House at Larchmont Hills, New York. il plan Am Arch 128:239 S 9 '25

House at Port Washington, Long Island, N.Y. Am Arch 128:pl 257-63 S 23 '25

House designs. il plans Bldg Age 46:68, 77, 89 Mr '24

House in Woodmansterne road, Carshalton, Surrey, England. Arch Rec 57:433-4 My '25

House of A. W. Finlay, Brookline, Mass.; views and plans. Am Arch 125:248k-m Mr 12 '24

House of Aldebert Ames, jr., Hanover, N.H. Am Arch 127:251-2 Mr 11 '25

House of Alexander D. Falck, Elmira, N.Y. Am Arch 126:591-2 D 17 '24

House of Alonzo Potter, Smithtown, N.Y. Arch Forum 41:203, pl 54-6 O '24

House of B. C. Moore, Kansas City, Mo. Am Arch 128:24-5 Jl 1 '25

House of C. G. Witherspoon, Riverdale, N.Y. Am Arch 127:pl 57-60 Mr 11 '25

House of Carl L. Nitze, Baltimore, Md. Am Arch 125:434g-h My 7 '24

ARCHITECTURE, Domestic—Designs and plans —*Continued*

House of Carll Tucker, Mt Kisco, N.Y. il diags Arch Forum 42:9-16, pl 1-6 Ja '25

House of Charles E. Mitchell, Tuxedo Park, N.Y.; views and plans. Am Arch 127:pl 41-5 F 25 '25

House of Charles Henry Wilson, Pelham, N.Y.; views and plans. Am Arch 125:248a-e Mr 12 '24

House of Charles M. Hart, architect, Pelham Manor, N.Y.; views and plans. Am Arch 125:248i-j Mr 12 '24

House of Charles S. Pillsbury, 100 East 22d st., Minneapolis, Minn. Am Arch 125:522a-d Je 4 '24

House of Charles Smithers, White Plains, N.Y. Am Arch 126:pl 193-201 D 17 '24

House of Charles Sugarman, New Orleans, La. Am Arch 128:26 Jl 1 '25

House of Dr Chester Bowers, Los Angeles, Calif. Am Arch 128:195-8 Ag 26 '25

House of Dr George W. Hawley, Bridgeport, Conn. Am Arch 127:483-4 My 20 '25

House of Dr H. P. Kuhn, Mission Hills, Kansas City, Mo. il plans Am Arch 128:317-20 O 5 '25

House of Dr Harold L. Springer, Rockland, Del. Arch Forum 41:311, pl 79-80 D '24

House of Dr J. F. Gile, Hanover, N.H. Am Arch 127:523-4 Je 3 '25

House of Dr P. S. Chancellor, Millbrook, N.Y. E: C. Smith. il Arch Forum 41:177-80 O '24

House of Donald Douglas, Lake Forest, Ill. Am Arch 127:pl 146-8 Je 3 '25

House of Dudley N. Hartt, Chestnut Hill, Mass. C. L. Churchill. Arch Forum 42:235-8 Ap '25

House of Edgar W. Maybury, Altadena, Cal. Am Arch 127:pl 81-4 Mr 25 '25

House of Edward Lowe, Montecito, Calif. Arch Forum 40:43, pl 14-16 Ja '24

House of Elbert Gary Sutcliffe, Winnetka, Ill., and house of Edward B. Caldwell, jr., architect, Bridgeport, Conn. Am Arch 126:pl 124-6 O 8 '24

House of Ernest S. Barkwill, Cleveland. il Arch Forum 42:75-6, pl 13-14 F '25

House of F. C. Stikeman, Chestnut Hill, Philadelphia, Pa.; views. Am Arch 125:14a-h, 2 fold pl Ja 2 '24

House of Felix J. Dreyfous, New Orleans, La. and house of John C. Von Glahn, Brooklyn, N.Y. Am Arch 128:pl 227-31 Ag 26 '25

House of Ferdinand R. Bain, Palms, Cal. Am Arch 127:pl 67-8 Mr 11 '25

House of five gables. il Bldg Age 46:56 O '24

House of Frank Schopflin, Mission Hills, Kansas City, Mo. Am Arch 127:pl 61-2 Mr 11 '25

House of George F. Lindsay, St Paul. Arch Forum 39:315, pl 104-7 D '23

House of George S. Hunt, Pasadena, Cal. Am Arch 127:pl 63-6 Mr 11 '25

House of H. F. Bagby, Mission Hills, Kansas City, Mo.; view and plan. Am Arch 128:pl 199 Jl 15 '25

House of Hiram Partee, San Antonio, Texas. Am Arch 124:458i-j N 21 '23

House of Howe Fraley, Chestnut Hill, Philadelphia; views and plans. Am Arch 126: 14a-b, pl 1-7 Jl 2 '24

House of Hunter Perry, Atlanta. Arch Forum 40:85, pl 22-25 F '24

House of I. Wistar Morris, Chestnut Hill, Philadelphia; views and plans. Am Arch 126:pl 53-6 Ag 13 '24

House of J. Averell Clark, Westbury, New York. Arch Forum 39:315, pl 108-10 D '23

House of J. N. Van Patten, Pasadena, Calif. Am Arch 127:pl 141-4 Je 3 '25

House of J. P. Taylor, Richmond, Va. Arch Forum 40:228, pl 78-80 My '24

House of J. W. Helm, Sunset Hill district, Kansas City, Mo. il plan Am Arch 128:321-2 O 5 '25

House of James F. Hunter, New Rochelle, N. Y. Am Arch 127:526-8 Je 3 '25

House of Jarvis Johnson, Denver, Col.—W. E. & A. A. Fisher, architects, and own house of Melvin Pratt Spalding, architect, Chappaqua, N.Y. Am Arch 127:97-104 Ja 28 '25

House of Jesse Barker, Peoria, Ill. Am Arch 127:pl 145 Je 3 '25

House of John C. Dawson, Lake Forest, Ill. Am Arch 126:pl 119-20 O 8 '24

House of John E. Deford, Baltimore. Arch Forum 41:203, pl 52-3 O '24

House of John F. Wilkins, Rockville, Md. Am Arch 128:pl 248-56 S 23 '25

House of John P. Wilson, Chicago. il Arch Forum 43:81-2, pl 22-4 Ag '25

House of Joseph S. Roberts, Chappaqua, N.Y.; distinctive small house competition. Am Arch 127:477-9 My 20 '25

House of L. M. Otto, jr., Vallamont, Williamsport, Pa.; views and plans. Am Arch 126:pl 31-3 Jl 16 '24

House of Lyford Moore, Detroit, Mich.; views and plans. Am Arch 126:pl 102-4 S 24 '24

House of M. H. Harrington, Germantown, Philadelphia, Pa.; views and plans. Am Arch 128:pl 222-3 Ag 12 '25

House of Maurice Brill, New York. Arch Forum 40:43, pl 10-13 Ja '24

House of Mrs J. O'Sullivan, Larchmont Shores, N.Y. il plans Am Arch 128:151-2 Ag 12 '25

House of Mrs John S. Meadows, Auburn, N. Y. il plans Am Arch 128:99-100 Jl 29 '25

House of Mrs. L. DeMagnin, Great Neck, L.I., N.Y.; views and plan. Am Arch 127:pl 55-6 F 25 '25

House of Mrs Lewis Bowman, Bronxville, N.Y.; views and plans. Am Arch 126:pl 23-30 Jl 16 '24

House of Mrs Mary L. Bowman, Bronxville, N.Y. Am Arch 127:pl 37-9 F 11 '25

House of Mrs R. M. Bissell, Farmington, Conn.; views and plans. Arch Forum 40: 131, pl 39-42 Mr '24

House of Mrs Thomas Aylette Buckner, jr., Riverdale, N.Y., and house of E. S. H. Pendergast, Short Hills, N.J. Am Arch 126: 501-5 N 19 '24

House of Professor A. J. Eames, Ithaca, N.Y. Am Arch 128:21-3 Jl 1 '25

House of Professor H. P. Weld, Ithaca, N.Y. Am Arch 127:565-9 Je 17 '25

House of Professor Whittemore, New Haven, Conn. and house of Charles W. Cyrus, Bridgeport, Conn. il Am Arch 126:403-5 O 22 '24

House of R. C. Diebenkorn, Portland, Ore. Am Arch 126:pl 15 Jl 2 '24

House of Robert M. Haig, Riverdale, N.Y. Am Arch 127:pl 92-6 Ap 8 '25

House of Russell S. Walcott and house of William B. Moulton; views and plans. Am Arch 126:pl 109-12 S 24 '24

House of Seavey Battelle, Rye, N.Y.; views and plans. Arch Forum 43:pl 14-16 Jl '25

House of the month. Published in monthly numbers of Building age and national builder

House of Thomas H. Frothingham, Far Hills, N.J.; views and plans. Am Arch 125:336a-k Ap 9 '24

House of V. S. Mulford, Montclair, N.J.; views and plans. Am Arch 125:30a-d, 31-2 Ja 2 '24

House of W. B. Bryant, Birmingham, Mich. Am Arch 127:390-2 Ap 22 '25

House of W. J. Frost, Birmingham, Mich. Am Arch 127:247-50 Mr 11 '25

House of W. J. Rynick, Allendale, Terre Haute, Ind. il plans Am Arch 128:379-80 O 20 '25

House of W. S. Witmer, Montecito, Calif. Am Arch 128:289-90 S 23 '25

House of Wayland M. Minot, Cambridge, Mass.; views and plans. Am Arch 125:248n -p Mr 12 '24

House of William J. Hamilton, Flushing, N.Y. Arch Forum 40:228, pl 75-7 My '24

House of Wm. M. C. Kimber, Germantown, Philadelphia, Pa. Am Arch 128:pl 179-81 Jl 1 '25

House on East Cliveden street, Germantown, Philadelphia, Pa.; views and plans. Am Arch 125:248f-h Mr 12 '24

House that Jack built. J. D. Paul. il plans Bldg Age 47:106-9 O '25

ARCHITECTURE, Domestic—Designs and plans —*Continued*
Houses at Forest Hills, Long Island, N.Y., for the Cord Meyer development company; views and plans. Arch Rec 58:357-64 O '25
Houses of Misses Eva and Martha Hird, Passaic, N.J., Frank Nells, Evanston, Ill., and Walter F. Decker, Brooklawn park, Bridgeport, Conn. Am Arch 126:551-8 D 3 '24
How a building plan worked out. il plans Bldg Age 46:82-3 Mr '24
Little Orchard; house of Mrs Laura Levering, Greenwich, Conn. Arch Forum 41:289-92 D '24
Making the most of a little. il plans Bldg Age 46:78-80 Mr '24
Modern six room house; with quantity survey. il plans Bldg Age 45:50-3 D '23
Most popular homes in America. 146p American builder, Chicago '25
New England colonial home; with quantity survey. il diags plans Bldg Age 46:72-5 Mr '24
New England home for narrow lot; with blue prints and quantity survey. il Bldg Age 47: 122-8 O '25
1924 prize winning design. il plans Bldg Age 46:62-3 Ag '24
Own house of Atlee B. Ayres, architect, San Antonio, Texas. Am Arch 125:442g-h My 7 '24
Own house of William Gehron, architect, Pelhamwood, N. Y.; views and plans. Am Arch 128: pl 196-8 Jl 15 '25
Plain stucco house. Bldg Age 46:122-3 N '24
Problem of the home designer is to give to modern homes exteriors adapted from different styles of architecture. il plans Bldg Age 47:100-4 O '25
Residence of Dr Elmer Twyman, Kansas City, Mo. Arch Rec 57:347-9 Ap '25
Residence of Dr W. W. Duke, Mission Hills, Kansas City, Mo.; views and plans. Arch Rec 58:351-6 O '25
Residence of Frank Chlumsky, Hicksville, L.I. Arch Rec 57:247-8 Mr '25
Residence of Harold S. Clark, Evanston, Ill. Bldg Age 46:89-90 N '24
Residence of J. B. Swartwout, Richmond, Virginia. Arch Rec 57:51-3 Ja '25
Residence of John A. Beckwith at Portland, Oregon. Arch Rec 57:431-2 My '25
Residence of John C. Von Glahn, Brooklyn, New York; views and plans. Arch Rec 58: 333-8 O '25
Residence of Miss Edith Bogue, Montclair, New Jersey. il plans Arch Rec 55:145-51 F '24
Residence of Miss Grace M. Simmons, South West Harbor, Maine. Arch Rec 55:455-61 My '24
Residence of Winter Mead, Morristown, New Jersey; views and plans. Arch Rec 57:137-41 F '25
Selecting a house design that will fit the lot. H. M. Fisher. il plans Bldg Age 46:70-6 F '24
Semi-bungalow home of quaint design; with blueprints. il plan Bldg Age 47:120-1 O '25
Simple colonial cottage; with blue prints and quantity survey. Bldg Age 47:110-16 Jl '25
Small colonial houses with specifications and data sheets. Arch Forum 42:337-52 My '25
Small home, how to plan and build it. W: D. Brinckloe. 223p R. M. McBride & co., New York '24
Small house competition and its first prize winner. Bldg Age 47:118-19 Je '25
Small house designs, collected by Community arts association of Santa Barbara, California. C. M. Winslow and E: F. Brown, eds. 153p Community arts assn., Santa Barbara, Cal. '24
Small house of many comforts. Bldg Age 47: 126-7 My '25
Small houses. il Bldg Age 46:62-7 O '24
Spanish home design. Bldg Age 47:108-9 Ag '25
Spanish influence at Palm Beach, Florida; the houses of A. Mizner and W. S. Kingsley. il plans Arch Forum 41:73-6, pl 25-8 Ag '24
Striking out for something different in home design. J. H. Hawkins. il plan Bldg Age 47:134-5 S '25
Stucco house of dignity; with blue prints. Bldg Age 47:128-34 Mr '25
Sturdy house of brick; blue print supplement, quantity survey. Bldg Age 47:130-6 Je '25
There's a quiet dignity in this New England colonial. il plans Bldg Age 47:88-9 N '25
Two duplex houses, Pittsburgh, Pa.; views and plans. Arch Rec 58:261-2 S '25
Two family house. il plans Bldg Age 46:107 D '24
Two family house at Hazlehurst Park, New Rochelle, N.Y. Am Arch 127:388 Ap 22 '25
Two-family house design that has the appearance of a one-family house. Bldg Age 47: 116-17 Je '25
Two home designs. Bldg Age 47:122-3 My '25
Two houses at Philipse Manor, N.Y.; views and plans. Am Arch 126:111-14 Jl 30 '24
Two little home designs. il plans Bldg Age 46:70-1 S '24
Two notable houses on Sutton place, New York; the homes of Mrs. W. K. Vanderbilt and Anne Morgan. il plans Arch Forum 41: 49-60, pl 17-24 Ag '24
West house, Kansas City, Missouri. Arch Rec 57:43-5 Ja '25
With a touch of the old; residence of Chas. H. Cuno, Meriden, Conn. C. W. Wilson. il plans Bldg Age 46:51-2 S '24
Your choice in brick or wood; with blue prints and quantity survey. Bldg Age 47:112-18 S '25
Your future home; a selected collection of plans for small houses from three to six rooms. 164p Weyerhaeuser forest products, Saint Paul, Minnesota '23

See also Bungalows; Cottages

Indexing

Finding the plan a customer wants. D. A. Hewitt. Bldg Age 47:115 Je '25

Bermuda

Bermuda houses, by J: S. Humphreys. Review, by A. W. Colton. il Arch Rec 58:93-5 Jl '25

California

Adobe construction. il diags Am Arch 127: 469-73 My 20 '25
Norman village in Arrowhead woods, Lake Arrowhead, California. F. Mueller. il plan Arch Rec 54:507-20 D '23
Residence of Mrs A. Vincent, Pebble Beach, California; views. Arch Rec 58:137-49 Ag '25

Connecticut

Early Connecticut architecture. J: F: Kelly. 25 pl W. Helburn, inc., New York '24
Early domestic architecture of Connecticut. J: F: Kelly. 210p Yale university press, New Haven '24

England

English homes, period III—late Tudor and early Stuart, 1558-1649. H: A. Tipping. Scribner '22
An English house and garden. T: H. Mawson. il Arch Rec 57:359-67 Ap '25
English interiors in smaller houses. M. Jourdain. 202p Scribner '23
Renaissance in England; the Elizabethan period. il Am Arch 127:121-6 F 11 '25
Warbrook, Eversley, Hampshire. H. D. Eberlein. il diags Arch Forum 43:89-96 Ag '25
Woolley Hall, Maidenhead; the English home of Walter H. Cottingham. T: H. Mawson. il plan Arch Rec 55:124-34 F '24

See also Housing—Great Britain

France

Farmhouses near the Riviera. W: D. Foster. il Arch Forum 40:209-12 My '24
Half timber. S: Chamberlain. il Am Arch 125: 1-6 Ja 2 '24
Notes on old Paris houses; with lithographic sketches. S: Chamberlain. Am Arch 126: 559-64 D 17 '24

ARCHITECTURE, Domestic—*Continued*

Italy

Villa Mondragone at Frascati. J. Chillman, jr. il plan Am Inst Arch J 12:211-18 My '24

Long Island

Eight old Long Island houses. il Am Inst Arch J 12:110-17 Mr '24
House of Clarence M. Schwerine, Great Neck, L.I., N.Y.; views. Am Arch 124:570a-c D 19 '23

Netherlands

Old domestic architecture of Holland. F. R. Yerbury, ed. 15p, 102pl Architectural press, London '24

New York (state)

Manors and historic homes of the Hudson valley. H. D. Eberlein. 328p Lippincott '24

Scotland

Details of Scottish domestic architecture. J. Gillespie. 130 pl G. Waterston & sons, Edinburgh '22

South Carolina

Some minor Charleston houses. A. Simons. il diags Arch Forum 42:81-8 F '25

Spain

Domestic architecture in Spain. R. A. Cram. il Am Arch 25:371-8 Ap 23 '24
Provincial houses in Spain. A. Byne. 190pl W. Helburn, inc., New York '25

United States

American country house. A. L. Kocher. il plans Arch Rec 58:401-512 N '25
American homes of to-day. A. O. Patterson. 393p Macmillan '24
Greek revival; the American national expression. H. Major. il plan Arch Forum 40:45-50 F '24
Harrie T. Lindeberg's contribution to American domestic architecture. R. J. Whitehead. il Arch Rec 55:309-72 Ap '24
House of Charles Forman, Winnetka, Ill. il plan Arch Forum 43:219-24, pl 65-7 O '25
Problems and prospects of American domestic architecture; views of A. J. Bloor. H. Croly. Arch Rec 56:380-1 O '24

See also Architecture, Colonial

Utah

Some early domestic architecture in and near Salt Lake City, Utah. G. Y. Cannon. il Am Arch 125:473-6 My 21 '24

Virginia

Jacobean house in Virginia known as Bacon's Castle. D. Millar. il diags plans Arch Rec 57:285-8 Mr '25

ARCHITECTURE, Egyptian

Spanish and Cairene houses. M. Stapley. il Arch Rec 58:165-79 Ag '25

ARCHITECTURE, French

Street façades in Dijon. il Arch Forum 42: 244a-h, 328a-h Ap-My '25

See also Fontainebleau

ARCHITECTURE, Gothic

Preludes of the Gothic revival. N. Hammarstrand. Am Inst Arch J 13:297-9 Ag '25
Selected monuments of French Gothic architecture. J: V. Van Pelt. 213p Pencil points press, inc., New York '24
Spanish Gothic. R. A. Cram. il Am Arch 125:187-94 F 27 '24
Spanish notes. R. A. Cram. il Am Arch 125: 47-54 Ja 16 '24

Bibliography

Library of the architect; with selective list of books on Gothic architecture. A. L. Kocher. Arch Rec 56:127-8 Ag '24

ARCHITECTURE, Greek

Architecture. A. M. Brooks. 189p [bibliog. p. 179-82] Marshall Jones co., Boston '24
Greek revival. H. Major. il plan Arch Forum 40:45-50, 105-10 F-Mr '24
New light on Greek art. E. Flagg. Am Inst Arch J 13:1-4 Ja '25
Parthenon and other Greek temples; their dynamic symmetry. J. Hambidge. 103p Yale univ. press, New Haven '24

ARCHITECTURE, Italian

Italian orders of architecture. C: Gourlay. 2d ed., rev. 31p Longmans '23
Palazzo Linotte, Rome. L. M. Hendrick, jr. il diags Arch Forum 40:51-8 F '24

See also Architecture, Domestic—Italy; Genoa—Architecture

ARCHITECTURE, Japanese

Pier and beam; a comparison of occidental and oriental architecture. E. Bonta. il diags plans Am Inst Arch J 13:43-60 F '25

ARCHITECTURE, Mayan

America's national architecture. A. C. Bossom. il Am Arch 128:77-83 Jl 29 '25
Architecture of the ancient Mayas. S. K. Lothrop. il Arch Rec 57:491-509 Je '25

ARCHITECTURE, Medieval

Albi—a mediaeval town. A. Embury, jr. il Arch Rec 57:549-59 Je '25
Past writings on mediaeval architecture. C: H. Moore. Arch Rec 57:217-20, 313-16 Mr-Ap '25

ARCHITECTURE, Mohammedan

Muhammadan architecture in Egypt and Palestine. M. S. Briggs. 255p Oxford '24

ARCHITECTURE, Renaissance

Renaissance in Spain. R. A. Cram. il Am Arch 125:289-96 Mr 26 '24

ARCHITECTURE, Roman

Villas of Pliny the Younger. H. H. Tanzer. 152p Columbia univ. press, New York '24

ARCHITECTURE, Spanish

Ancient and modern architecture in Santa Fe, N. M. il Am Arch 125:421-5 My 7 '24
Cataluñan architecture. R. A. Cram. il map Am Arch 128:337-40, 420-8 O 20, N 20 '25 (to be cont)
Details of Spanish architecture. il Am Arch 128:123-5 Ag 12 '25
Following the Spanish style in St Mark's community buildings, New Orleans. A. W. Roe. il Bldg Age 47:116-17 My '25
Masterpieces of Spanish architecture, Romanesque and allied styles. J: V. Van Pelt. 215p Pencil points press, inc., New York '25
School like an old world mission. J. M. Hawkins. il plan Bldg Age 47:96-7 Mr '25
Spanish and Cairene houses. M. Stapley. il Arch Rec 58:165-79 Ag '25
Spanish architecture in the modern hotel; Casa de Manana, La Jolla, Cal. B. Pickett. il Arch Forum 43:209-12, pl 62-4 O '25
Spanish gardens and patios. M. S. Byne and A. Byne. 305p Lippincott '24
Spanish style for a school of the Southwest; the Roosevelt school, Tucson, Arizona. il diag Bldg Age 46:36-7 D '24
Stores in the Spanish style. il Arch Forum 40: 239-44 Je '24

See also Mission buildings (Spanish)

ARCHITECTURE, Swedish

Swedish architecture of the twentieth century, by H. Ahlberg. Review by A. W. Colton. il Arch Rec 58:195-9 Ag '25

ARCHITECTURE in moving pictures

Architecture and the cinema. Am Arch 124: sup18+ D 19 '23

ARCTIC exploration

Amundsen expedition. Aviation 18:601, 723 Je 1, 29 '25
Arctic exploration by aircraft. il map Sci Am 130:152-3 Mr '24
Arctic navigation. Aviation 18:701 Je 22 '25
MacMillan-navy expedition sails. Aviation 18: 721 Je 29 '25
Navy-MacMillan schedule. Aviation 19:122-3 Ag 3 '25
Observations on ice-borne sediments by the Canadian and other Arctic expeditions. E. M. Kindle. il Am J Sci 5th ser 7:251-86 Ap '24

ARCTIC exploration—*Continued*
Opening up the North pole regions. D. M. Edwards. map Am Ind 25:5-8+ Je '25
Radio at the North pole. O. E. Dunlap, jr. il map Sci Am 133:93 Ag '25
Radio breaks Arctic silence. J. Barnsley. il Wireless Age 11:26-8+ Mr '24
Radio goes to the North pole. J: L. Reinartz. il diags Radio N 7:16-17 Jl '25
Report of the Naval Arctic air board; plan calls for use of Shenandoah, six planes, mooring masts and two airship tenders. Aviation 16:65-6 Ja 21 '24
Shenandoah's Arctic expedition postponed. diag Aviation 16:203-4 F 25 '24
U.S. navy to participate in Amundsen polar flight. Aviation 15:631 N 19 '23

ARCTIC regions
Does land lie near the pole? Sci Am 130:164 Mr '24
Northern islands of Canada. F. D. Henderson. Can Eng 48:568 Je 9 '25

AREA measurement
Simpson's rules generalized. W. F. Durand. Mech Eng 46:885-6 D '24; Same. Eng & Contr (Ry) 63:597-8 Mr 18 '25

ARGENTINA
Argentine land companies. Economist 99:861-2 N 29 '24
Argentine Republic's contribution to civilization. Comm & Fin Chr 118:12-13 Ja 5 '24
See also Aeronautics—Argentina; Bonds, Government—Argentina; Commercial law—Argentina; Finance—Argentina; Labor laws and legislation—Argentina; Radio stations—Argentina; Railroads—Electrification—Argentina; Railroads—Argentina

Commerce
American and British trade with Argentina. M. A. Phoebus. Econ W n s 29:762-3 My 30 '25
American idea builds mail-order business in Argentina. Ptr Ink 126:153-4 F 28 '24
Argentina—U. S. trade relations satisfactory. Oil Paint & Drug Rep 105:20 Ja 14 '24
Argentine movement of grain and flaxseed. Survey of Cur Business 39:112 N '24
British trade with Argentina. Engineering 119: 111 Ja 23 '25
Who sells to the Argentine? E. R. Murphey. il System 47:325-9+ Mr '25

Economic conditions
Argentina; politics, public finance, the general outlook, crop surpluses. Economist 98:1013-14 My 17 '24
Argentina today. O. Roberts. Bankers M 109: 1124-8 D '24
Conditions in Argentina. Elec R (Lond) 96: 38-9 Ja 2 '25
Good harvests; budget; debt; protective duties; trade and exchange. Economist 98:201-3 F 2 '24
Investments in Latin America; Argentina. F: M. Halsey and C. B. Sherwell. U S Bur For & Dom Com Trade Information Bul 362:1-85 '25
See also Finance—Argentina

Industries and resources
Opportunities in Argentine. L. Fiore. il Prof Eng 8:10-11 N '23
See also Cotton—Argentina; Petroleum—Argentina

National postal savings bank
Competition for the National postal savings bank of Argentina. il plans Am Arch 127: 219-22 Mr 11 '25

ARGHAN
Arghan fiber. M. Becke. Am Dyestuff Rep 13:107-8 F 11 '24

ARGON
Concentration of argon from air by fractional liquefaction. G. R. Fonda, F. W. Reynolds and S. Robinson. diag Ind & Eng Chem 17: 676-8 Jl '25
Effect of argon on the first positive band spectrum of nitrogen. R. C. Johnson. Philos Mag 6th ser 48:1069-74, pl 26 D '24
Equation of state of argon, neon and hydrogen; report on the work done in Leiden cryogenic laboratory. E. Mathias and C. A. Crommelin. Refrig Eng 12:87-91 [bibliog. p. 91] S '25
Luminescence of nitrogen, argon and other condensed gases at very low temperatures. J. C. McLennan and G. M. Shrum. J Fr Inst 198:434-6 S '24
Magnetic susceptibility of helium, neon, argon, and nitrogen. L. G. Hector. diag Phys R 24:418-25 O '24
Mobility of argon and hydrogen ions in air. H: A. Erikson. diags Phys R 26:465-8 O '25
Single and double ionization of argon by electron impacts. H: A. Barton. Phys R 25:469-83 Ap '25

ARITHMETIC
Study and teaching
Summary of educational investigations relating to arithmetic. G. T: Buswell and C: H. Judd. 212p [bibliog. p. 166-205] Univ. of Chicago press '25

ARITHMETIC, Commercial
New complete business arithmetic. G: H. Van Tuyl. 440p Am. bk. co., New York '24
Self-proving business arithmetic. T: T. Goff. 316p Macmillan '23
See also Accounting; Bookkeeping

ARIZONA
See also Copper mines and mining—Arizona; Electric plants (central stations)—Arizona; Geology—Arizona; Gold mines and mining—Arizona; Mines and mineral resources—Arizona; Roads—Arizona; Water supply—Arizona

ARKANSAS
Some remarkable facts about Arkansas. J. G. Ferguson. Manuf Rec 86:89 Jl 24 '24
See also Hydroelectric plants—Arkansas; Petroleum—Arkansas; Roads—Arkansas; Water power—Arkansas

Industries and resources
Arkansas manufactures, 1923. Manuf Rec 87: 114 Je 4 '25
Directory of Arkansas industries; 1924. 174p Arkansas bur. of mines, manufactures and agriculture, Little Rock '24
Half a century of Arkansas progress. T: C. McRae. Manuf Rec 86:355-6; Statistics. 361 pt 2 D 11 '24
Harnessing Arkansas water-power. R. E. Livingston. il Sci Am 130:174 Mr '24
Increased use of commercial fertilizers and mineral fertilizers in Arkansas. T. Shiras. Manuf Rec 88:85-6 O 15 '25
See also Diamond mines and mining—Arkansas; Mines and mineral resources—Arkansas; Petroleum industry and trade—Arkansas

ARKANSAS river
States propose to regulate Arkansas river floods. Eng N 95:563 O 1 '25

ARLEN, Michael
How shall we say it, in the style of Washington Irving or Michael Arlen? A. Bradbury. Ptr Ink 129:70+ D 18 '24

ARLINGTON House, Arlington national cemetery
Arlington House. G. L. Rodier. il diags plans Arch Forum 40:89-96 Mr '24

ARMAMENTS
See Aeronautics, Military; Disarmament

ARMATURES
Die ankerkupferverluste der vom netz erregten drehstromerregermaschine. W. Weiler. diags Elektrotech Zeit 45:1080-3 O 9 '24
Armature coil banding and wedging. V. D. Barker. il Elec J 20:452-3 D '23
Convenient mounting for pinion puller. Elec Ry J 64:1038+ D 20 '24

ARMATURES—*Continued*
Dynamic balance of small high-speed armatures. W: E. Trumpler. il diags Elec J 22: 36-41 Ja '25
Eddy current losses in armature conductors. R. E. Gilman. Am Inst E E J 43:194-6 Mr '24; Discussion. 43:1170-3 D '24
Eddy currents cause of trouble with armature bands. E. Kalen. diags Ind Eng 83:205 Ap '25
Efficient method of cleaning armatures. il Elec Ry J 64:1084 D 27 '24
Frog leg d.c. armature windings. W. H. Powell and G. M. Albrecht. diags Ind Eng 83: 462-5; Discussion. 472+ O '25; Abstract. Blast F & Steel Pl 13:410 O '25
Functions and windings of d.c. armatures. il diags Power Pl Eng 29:14-17 Ja 1 '25
Insulating a railway motor armature. il diags Elec J 21:535+ N '24
Lap windings with unequal coil groups. C. R. Riker and A. M. Dudley. diags Elec J 22:25-9 Ja '25
Method of balancing armature by use of rails. il Ind Eng 82:303 Je '24
Reconnecting direct-current armature windings. A. C. Roe. il diags Power 59:246-9, 331-4 F 12, 26 '24
Reconnecting direct-current armatures—common mistakes in connections. A. C. Roe. diags Power 59:446-7 Mr 18 '24
Reconnecting direct-current armatures—fractional-pitch windings. A. C. Roe. diags Power 59:983-4 Je 17 '24
Reconnecting direct-current armatures—types of armature coils. A. C. Roe. il Power 59: 866-7 My 27 '24
Removing armatures from motors. A. B. Seaman. il Am Mach 60:115 Ja 17 '24
Repeated thermal expansions and contractions; their effect on long armature coil insulations. T. S. Taylor. il diags Am Inst E E J 43:1047-50 N '24
Sae-co armature manual. I. Stolper, ed. 342p Standard automotive equipment co., Boston '24
Types of a.c. armature windings. diags Power Pl Eng 29:30-2 Ja 1 '25
See also Coils; Commutators

Baking
Car heaters used in small baking ovens. il Elec Ry J 65:702 My 2 '25
Certain essentials in dipping and baking railway motor armatures. H: S. Day. il Aera 13:42-7 Ag '24
Convenient arrangement for dipping and baking armatures. A. H. Kopprasch. Ind Eng 83:302-3 Je '25
Electrical oven bakes armatures after they are coated with insulation. il Coal Age 27: 407-8 Mr 12 '25
How to dip and bake armatures to secure long life. A. C. Roe. Ind Eng 83:400-1 Ag '25
Pull-ins reduced 80 per cent by installing armature dipping and baking facilities and by changing the kind of waste used. il Elec Ry J 65:91-2 Ja 17 '25

Manufacture
Armature work improved by hydraulic press and special tools. T. Dunn. diags Elec Ry J 66:835-6 N 7 '25
Details of armature construction. il diags Power Pl Eng 29:17-20 Ja 1 '25
Tripling armature shaft production. O. H. Jorgensen. il diag Elec Ry J 63:820 My 24 '24

Repair
Banding armatures in the field. C. I. Moore. diags Elec J 20:451-2 D '23
Heating stand for shafts and axles. J. L. Brown. il Elec Ry J 66:173 Ag 1 '25
Modern armature repair practice. J: S. Dean. Elec Ry J 63:262-4 F 16 '24
Practical d.c. armature winding. L. Wollison. 228p Pitman '25
Reducing motor failures at Syracuse by better maintenance; program for dipping and baking motor armatures and fields. L. E. Worlock. il Elec Ry J 65:757-9 My 16 '25
Removing coils from slots. J. L. Rylander. il diags Elec J 20:443-5 D '23
Rewinding and repairing armatures and motors. C. A. Williams. il Ind Eng 83:524-8+ N '25
Systemmatic handling of motor parts reduces costs il Coal Age 26:664 N 6 '24

Testing
Armature testing set. F. Huskinson. il diag Power 61:503; 62:374 Mr 31, S 8 '25
High-voltage test set for use in the repair shop. E. M. Fehrlin. il diags Ind Eng 82: 351-2 Jl '24
How to construct and use an armature-testing magnet. A. C. Roe. diags Power 60: 297-8 Ag 19 '24
How to find commutator pitch of armature coils with test lamp. A. C. Roe. diag Ind Eng 82:153-4 Mr '24
How to test lap-wound armatures with equalizer connections. A. C. Roe. Ind Eng 82: 599-601 D '24
Testing out armatures during rewinding. A. C. Roe. il Ind Eng 82:373-7+ Ag '24

Winding
Alternating-current armature winding. T. Croft. 352p McGraw-Hill '24
Armature winding information. diags Elec Ry J 64:360 S 6 '24
Device keeps binding wire under uniform tension. il Coal Age 27:551-2 Ap 9 '25
Laying in a chorded split-loop winding. A. C. Roe. diag Ind Eng 83:452-3 S '25
Methods of taking and recording rewinding data. A. C. Roe. diags Ind Eng 83:281-5, 333-7 Je-Jl '25
Practical armature and magnet winding. H: C: Horstmann and V: H. Tousley. 3d ed., enl. 256p Drake '23
Practical pointers and winding rules for d.c. armatures. A. C. Roe and D. H. Braymer. diags Ind Eng 83:380-3+, 432-5+, 485-7+ Ag-O '25
Preliminary treatment and winding of armatures. M. E. Chapman. il diags Elec J 20:428-33 D '23; Abstract. Elec Ry J 64:22-3 Jl 5 '24
Rewinding direct-current armatures. F. Huskinson. il diags Power 62:321-4 S 1 '25
Some of the details of how to wind a small armature by hand. Ind Eng 82:253-4 My '24
Special chorded split-pitch loop winding. A. C. Roe. diags Ind Eng 82:326-8 Jl '24
Winding armatures by machine. P. E. Chapman. il diags Ind Eng 83:230-4+ My '25
Winding machine for small armatures. il Elec Ry J 65:741 My 9 '25

ARMCO iron
Effect of grain-size on the extension at the yield point in Armco iron. R. Arrowsmith. Iron & Steel Inst J 110:317-19 no 2 '24

ARMORED vehicles (delivery service)
Armored chariots of king cash. J: W. Harrington. il Bankers M 110:29-35 Ja '25
For protection plus. M. J. Phillips. il Burroughs Clearing House 9:10-12 Jl '25
New departure in armored bank cars. il Bankers M 110:821-2 My '25

ARMORIES
Troop A armory and riding academy, Cleveland, Ohio. il plans Am Arch 126:211-14 Ag 27 '24

ARMOUR, Philip D.
Philip D. Armour said the best investment in the world is—. P. J. O'Keeffe. por il System 46:290-3+ S '24
Play the game square. P. J. O'Keeffe. por System 45:334-5 Mr '24

ARMOUR and company
Annual report for 1923. Comm & Fin Chr 118:1131 Mr 8 '24
Annual report—year ended Dec. 27, 1924. Comm & Fin Chr 120:1450 Mr 21 '25

ARMOUR and company—*Continued*
What is your trade-mark? C. P. Carter. Ptr Ink 125:25-6 D 20 '23

ARMSTEAD, Henry Howell
Mining engineers of note. por Eng & Min J 118:844 N 29 '24

ARMY camps. See Camps, Military

ARMY industrial college. See United States—Army industrial college

ARMY posts. See Military posts

ARNOLD, Sir Edwin
Servant of the printing press; Sir Edwin Arnold as editor, journalist and author. J. B. Arnold. por Inland Ptr 72:425-8 D '23

ARNOLD arboretum
Museum in the open air; the display of trees and woody plants at the Arnold arboretum. A. A. Hopkins. il Sci Am 130:102 F '24

AROMATIC compounds
Action of aromatic alcohols on aromatic compounds in the presence of aluminum chloride; condensation of benzyl alcohol and phenol. R. C. Huston. Am Chem Soc J 46: 2775-9 D '24
Conversion of hydroaromatic into aromatic compounds; action of chlorine on 5-chloro-1:1-dimethyl-Δ^1-*cyclo*hexen-3-one. L. E. Hinkel. Chem Soc J 125:1847-55 S '24
Correlation of some aromatic types with physiological action; local anesthetics containing the furan, thiophene and pyrrole nuclei. H: Gilman and R. M. Pickens. Am Chem Soc J 47:245-54 Ja '25
Emission band spectra of aromatic compounds. J. K. Marsh. Philos Mag 6th ser 49:971-80, 1206-16, pl 10 My-Je '25
Industrial poisoning by aromatic compounds. D. H. Killeffer. Ind & Eng Chem 17:820-2 Ag '25
Interaction of some aromatic hydrocarbons, alcohols, and aldehydes with nitrogen peroxide. L. W. Bass and T. B. Johnson. Am Chem Soc J 46:456-61 F '24
Mercuration of aromatic substances; toluene. S: Coffey. Chem Soc J 127:1029-32 My '25
New aromatic orthoformates. J: E. Driver. Am Chem Soc J 46:2090-3 S '24
Orienting influence of the thiocyano-group in aromatic compounds. F: Challenger and A. D. Collins. Chem Soc J 125:1377-81 Je '24
Polarity effects in aromatic halogen compounds. J: B. Shoesmith, A. C. Hetherington, and R. H: Slater. Chem Soc J 125: 1312-19 Je '24
Polynuclear heterocyclic aromatic types; some anhydronium bases. J. W. Armit and R. Robinson. Chem Soc J 127:1604-18 Jl '25
Reactivity of antimony halides with certain aromatic compounds. E. Vanstone. Chem Soc J 127:550-2 Mr '25
Theory of substitution in aromatic compounds. Soc Chem Ind J (Chem & Ind) 43: 1161-2, 1266; 44:33-4, 83-5, 117-18, 172-3, 259-60 N 21, D 19 '24, Ja 9, 23-30, F 13, Mr 6 '25

See also Hydrocarbons, Aromatic

ARROWHEAD inn, New York
New Arrowhead inn. M. Price. il diags plans Arch Forum 41:269-76 D '24
Roadside inn ideal. il plans Bldg Age 46:98-101 D '24

ARROWHEAD Lake, California
Norman village in Arrowhead woods. F. Mueller. il plan Arch Rec 54:507-20 D '23

ARSENALS
Industrialisation of arsenals. Lamouche. Engineering 119:78-9 Ja 16 '25

ARSENATED oil
Arsenated petroleum oil as a wood preservative. W. L. Tanner. Ind & Eng Chem 17: 167 F '25

ARSENATES
Formation of arsenate jellies. H. B. Weiser and A. P. Bloxsom. J Phys Chem 28:26-40 Ja '24

See also Calcium arsenate; Lead arsenate

ARSENIC
Arsenic, calcium arsenate and the boll-weevil. diags Chem Age 31:547-8 D '23
Arsenic deposits near Seattle, Washington. P. C. Stoess. Eng & Min J 118:821-2 N 22 '24
Arsenic in 1924. H. M. Brush. Eng & Min J 119:92 Ja 17 '25
Arsenic 1924 supply reported 26,000 tons. Oil Paint & Drug Rep 105:71 F 4 '24
Arsenic situation in the United States. Eng & Min J 119:753 My 9 '25
Arsenical ore deposits in the United States. R. H. Sayre. il Eng & Min J 118:929-32 D 13 '24
Chemical and material markets in 1923. Chem & Met Eng 30:107 Ja 21 '24; Eng & Min J 117:210 F 2 '24
Crystal structure of metallic arsenic. A. J. Bradley. Philos Mag 6th ser 47:657-71 Ap '24
Free energy and heat content of arsenic trioxide and the reduction potential of arsenic. R. Schuhmann. Am Chem Soc J 46:1444-9 Je '24
Phases of the arsenic, calcium arsenate and cotton situation. Can Chem & Met 8:221-2 S '24
Preparation of arsenic-free reagents. G: D. Beal and K. E. Sparks. Ind & Eng Chem 16:369-70 Ap '24
Record production of arsenic, 1924. Chem & Met Eng 32:132 Ja 19 '25
Some effects of the penetration of arsenic and sulphur into steel. W. N. Hindley. Iron & Steel Inst J 109:465-76, pl 29-30 no 1 '24
Spectra and critical potentials of fifth group elements. A. E. Ruark and others. il U S Bur Stand Sci Pa 490:463-86 '24
Study of crystal structure and its applications. W. P. Davey. Gen Elec R 28:726 O '25

See also Calcium arsenate

Analysis

Determination of arsenic in steel. A. E. Cameron. bibliog Ind & Eng Chem 17:965-6 S '25
Estimation of arsenic in organic compounds. G: Newbery. Chem Soc J 127:1751-2 Jl '25
Estimation of minute quantities of arsenic. O. Billeter and E. Marfurt. Chem Soc J 124 pt 2:786 N '23
Use of the lead cathode in the electrolytic method for the determination of minute quantities of arsenic. T. Callan. Soc Chem Ind J 43:168-70 My 30 '24

Physiological effect

Mechanism of the action of arsenic upon protoplasm. C. Voegtlin, H. A. Dyer and C. S. Leonard. 32p U.S. Pub. health service, Washington '23

ARSENIC acid
Manufacture of arsenic acid; patent. Chem Age 32:357 Ag '24

ARSENIC compounds
Action of arsenic compounds on tank block. D. J. McSwiney. Am Cer Soc J 8:307-9 My '25
Adherent arsenical preparations. W: Moore. Ind & Eng Chem 17:465-6 My '25
Aliphatic arseno compounds; arseno-acetic acid and tetra-arseno-acetic acid. C: S. Palmer. Am Chem Soc J 45:3023-9 D '23
Arsono-arylamino alcohols. C. W. Rodewald and R. Adams. Am Chem Soc J 45:3102-5 D '23
Asymmetric compounds of quinquevalent arsenic. J: A. Aeschlimann. Chem Soc J 127: 811-15 Ap '25
Chemical, physical, and insecticidal properties of arsenicals. F. C. Cook and N. E. McIndoo. U S Dept Agric Bul 1147:1-57 [bibliog. p. 55-7] '23; Abstract. Chem Age (Lond) 11: 470 N 8 '24
Chemotherapy of organo-arsenic compounds. G. M. Dyson. Chem Age (Lond) 13:84-7 Jl 25 '25
Condensation products of amino-arsanilic acid. W. L. Lewis, P. L. Cramer and R. S. Bly. Am Chem Soc J 46:2058-65 S '24

ARSENIC compounds—*Continued*
Diarsono-diphenyl and derivatives. W. W. Bauer and R. Adams. Am Chem Soc J 46:1925-31 Ag '24
Manufacture of insecticides. C. W. Drury and C. W. Simmons. Can Chem & Met 9: 179-82 Ag '25
Organic arsenical compounds. G: W. Raiziss and J. L. Gavron. 570p Chemical catalog co. '23
Organic compounds of arsenic; derivatives of *o*-benzarsinic acid. J: A. Aeschlimann and N. P. McCleland. Chem Soc J 125:2025-35 O '24
Organic compounds of arsenic; derivatives of the arsenic analogue of carbazole. J: A. Aeschlimann and others. Chem Soc J 127: 66-9 Ja '25
Preparation and study of symmetrical bis-arsono-aryl-benzamido-ureas. C. S. Hamilton and R. T. Major. diag Am Chem Soc J 47:1128-34 Ap '25
See also Arsenates; Arsenites; Trypanocides

ARSENIC disulfide
Red arsenic. Chemicals 24:11 Ag 10 '25

ARSENIC hydride. See Arsine

ARSENIC oxides
Vapour pressure of arsenious oxide. P. Smellie. diags Soc Chem Ind J 42:466-8 D 7 '23
See also Arsenic trioxide

ARSENIC sulfides
Adsorption by precipitates. H. B. Weiser. J Phys Chem 28:1253-64 D '24
Influence of anions on the coagulation of negatively charged suspensoids. J. N. Mukherjee and S. G. Chaudhuri. Chem Soc J 125: 794-802 Ap '24
Kinetics of the process of coagulation of colloids in the light of Smoluchowski's theory. J. N. Mukherjee and S. K. Majumdar Chem Soc J 125:785-94 Ap '24
Protective action of soaps on arsenious sulphide sols. B. Papaconstantinou. J Phys Chem 29:323-5 Mr '25

ARSENIC trioxide
Action of arsenic trioxide in water solution on certain metallic hydroxides. L. G. Story and E. Anderson. Am Chem Soc J 46:533-9 Mr '24
Free energy and heat content of arsenic trioxide and the reduction potential of arsenic. R. Schuhmann. Am Chem Soc J 46: 1444-9 Je '24
Influence of mercury and other impurities on the rate of oxidation of white arsenic by nitric acid. C. M. Smith and G. E. Miller. Ind & Eng Chem 16:1168-71 N '24
Making white arsenic at Toulen, Nev. G: J. Young. il Eng & Min J 117:757-8 My 10 '24; Excerpt. Chem & Met Eng 30:910 Je 9 '24

ARSENICALS. See Arsenic compounds; Dipping fluids, Arsenical; Salvarsan; Silver salvarsan; Trypanocides

ARSENIOUS acid
Adsorption of arsenious acid by hydrous aluminum oxide. J: H. Yoe. Am Chem Soc J 46:2390-7 N '24

ARSENITES
Action of arsenic trioxide in water solution on certain metallic hydroxides. L. G. Story and E. Anderson. Am Chem Soc J 46:533-9 Mr '24

ARSENIURETTED hydrogen. See Arsine

ARSENO-acetic acid
Aliphatic arseno compounds; arseno-acetic acid and tetra-arseno-acetic acid. C: S. Palmer. Am Chem Soc J 45:3023-9 D '23

ARSENOBENZENE
Synthesis of N,N,-dimethylenesulfonates of ortho-, meta- and para-diamino-arsenobenzene. K. Kashima. Am Chem Soc J 47: 2207-11 Ag '25

ARSINE
Industrial poisoning by arseniuretted hydrogen (arsine). I. Guelman. bibliog J Ind Hygiene 7:6-16 Ja '25

ARSINES
See also Chlorovinyl-arsines

ARSINIC acid
Convenient method for the preparation of arsinic acids from the corresponding chloroarsines. H. Burton and C: S. Gibson. Chem Soc J 125:2275-8 N '24
See also Aminophenylarsinic acid

ARSON
Arson losses, $167,000,000. T. A. Fleming. Credit M 27:16+ Jl '25; Excerpts. Econ W n s 30:129-31 Jl 25 '25
Bring arson into open text of proposed model arson law. W: W. Orr. Credit M 27:26 Ag '25
With fire and fraud; burning buildings for profit. E: H. Smith. il Sci Am 129:382-3+ D '23

ARSONOBENZENE-azo-phthaleins
Para-arsonobenzene-azo-phthaleins. W. G. Christiansen. Am Chem Soc J 47:2244-9 Ag '25

ARSONOPHENYL-cinchoninic acid
Arsonophenyl-cinchoninic acid and derivatives. K. Ogden and R. Adams. Am Chem Soc J 47:826-30 Mr '25

ARSPHENAMINE. See Salvarsan

ART
In the garden of the goddess. W: L. Steele. Am Inst Arch J 13:341-3 S '25
The new risorgimento; aesthetic beauty and physical development. il Am Inst Arch J 13:19-21 Ja '25
Thoughts about art. Am Inst Arch J 13:262-4 Jl '25
See also Architecture; Bronzes; Decoration and ornament; Design; Design, Decorative; Enamel and enameling; Engraving; Esthetics; Interior decoration; Mural painting and decoration; Photography; Photography, Architectural; Sculpture; Stained glass; *also* National museum of fine arts (proposed)

Paris
Art mart on Montmartre. S: Chamberlain. il Am Arch 127:155-7 F 25 '25

ART, Colonial
Romance of design and ornament as applied to advertising. R. Highet. il Ptg Art 42: 233-8 N '23

ART, Commercial
Advertisers becoming patrons of best art. Ptr Ink 129:49 D 18 '24
Place of beauty in the business world. H. Elliott. Ann Am Acad 115:52-6 S '24
Putting art into manufactures. H: Winter. Am Ind 25:11-12 Je '25
See also Advertisements, Pictorial; Design; Photography, Commercial

ART, French
First session of the Fontainbleau school of fine arts. A. L. Kocher. Arch Rec 55:204-5 F '24

ART, Greek
Arts in Greece, by F. A. Wright. Review. Am Inst Arch J 11:446-8 N '23

ART, Municipal
See also City planning

ART, Primitive
See also Sculpture, Primitive

ART, Spanish
See Architecture, Spanish; Decoration and ornament, Spanish

ART galleries and museums
Art fatigue. Am Inst Arch J 13:303-5 Ag '25
California palace of the Legion of Honor, San Francisco. L. French, jr. il plans Arch Forum 43:201-8 O '25
Small American museum buildings. J: H. Scarff. il plans Arch Forum 40:79-81 F '24

Lighting
Better utilization of daylight in art galleries and other places. H. I. Day. il Am Arch 126:581-8 D 17 '24

ART galleries and museums—Lighting—*Cont.*
Lighting of picture galleries and museums. S. H. Seager. il diags Am Arch 124:429-36, 471-6, 517-21 N 7-D 5 '23

ART-in-trades club
Annual exhibition of the Art-in-trades club, New York. il Am Arch 126:449-50 N 5 '24

ART industries and trade
Art in industry. R: F. Bach. il Am Cer Soc J (Bul) 7:277-88 Ag '24
Economic laws of art production. H. L. Smith. 246p Oxford '24
Linking art and the factory. R. F. Bach. Am Ind 25:35-7 S '24
Reflections upon art and manufacture. E. Woodward. Am Cer Soc J (Bul) 8:218-20 My '25

Exhibitions

American industrial art at the Metropolitan museum. R: F. Bach. il Arch Rec 55:304-6 Mr '24
Exhibition of industrial art at the Metropolitan museum. il Am Arch 125:153-5 F 13 '24
L'exposition internationale des arts décoratifs et industriels modernes, Paris, avril-octobre 1925. P. Calfas. il plans Génie Civil 86:525-31 My 30 '25
Industrial art means industrial efficiency. D. Gridley. il Ptr Ink M 10:33-5 My '25

ARTESIAN wells
Air lift pumping plant at Dubuque, Iowa. J. W. McEvoy. Munic & Co Eng 67:263-5 N '24; Same. Am Water Works Assn J 14:23-8 Jl '25
Artesian-water supply of the Dakota sandstone in North Dakota. O. E. Meinzer and H. A. Hard. map U S Geol S Water-supply Pa 520—E:73-95, pl 6-7 '25
Locating leaks in the casings of old artesian wells. W. M. Angas. il Eng N 93:270 Ag 14 '24
Quake damage to water supplies of Japanese railways. M. Nawa. map Eng N 93:986 D 18 '24

ARTESIAN wells, Hot water
Natural hot water heating; artesian hot water wells, Boise, Idaho. il Dom Eng 112: 16-17+ Ag 22 '25

ARTICHOKES
Method for the manufacture of levulose. R. F. Jackson, C. G. Silsbee and M. J. Proffitt. Ind & Eng Chem 16:1250-1 D '24

ARTICULATED cars. See Cars, Articulated; Cars, Electric railroad—Articulated cars

ARTIFICIAL daylight. See Daylight, Artificial

ARTIFICIAL leather. See Leather, Artificial

ARTIFICIAL limbs
Artificial limbs. F. Martin. 298p International labour office, Geneva '24

ARTIFICIAL silk. See Silk, Artificial

ARYL sulfonates
Reaction between aryl sulfonates and organomagnesium halides. H: Gilman, N. J. Beaber and C: H. Myers. Am Chem Soc J 47:2047-52 Jl '25

ARYLAMINES. See Amines

ARYLAZOALDOXIMES
New synthesis of arylazoaldoximes. T: K. Walker. Chem Soc J 127:1860-3 Ag '25

ARYLGUANIDINES
Manufacture and testing for accelerator action of the di- and tri-arylguanidines. W. J. S. Naunton. Soc Chem Ind J 44:243-7 My 22 '25

ARYLIDENECYANOACETIC acids
Reduction products of arylidenecyanoacetic acids. W. Baker and A. Lapworth. Chem Soc J 125:2333-8 N '24

ARYLSELENOGLYCOLLIC acids
Arylselenoglycollic acids. G. T. Morgan and W: H: Porritt. Chem Soc J 127:1755-9 Ag '25

ASBESTINE
Asbestine as a rubber filler; abstracts. R. Ditmar. India Rubber W 69:231-2 Ja '24; Chem & Met Eng 30:318-19 F 25 '24
Determination of asbestine in lithopone paint. F: G. Germuth. Ind & Eng Chem 17:1150 N '25
Use of fillers in compounding rubber. I. Ginsberg. Rubber Age 16:48-50 O 25 '24

ASBESTOS
Amphibole asbestos deposits at Hollywood, Ga.; their development and treatment. L. B. Reifsneider. Eng & Min J 119:606-8 Ap 11 '25
Arizona asbestos deposit. A. M. Bateman. Econ Geol 18:663-80 O '23; Discussion. 18: 681-3; 19:386-8; 20:104-5 O '23, Je '24, Ja '25
Asbestos. N. R. Fisher. Eng & Min J 119: 94-5 Ja 17 '25
Asbestos and its manufactures. Comm M 5: 27-30 Ap '24; Same. Econ W n s 27:583-5 Ap 26 '24
Asbestos deposits of Cyprus. C. L. Sagui. Econ Geol 20:371-5 Je '25
Asbestos dryer felt. H. N. Hill. Paper 35:112 F 12 '25
Asbestos has many uses. Am Arch 127:sup14 Ap 22 '25
Asbestos in Canada in 1924. Eng & Min J 120:18 Jl 4 '25; Same. Can Eng 49:115 Jl 7 '25
Asbestos in 1923. E: Sampson. U S Geol S Min Res of U S 1923, pt 2:339-50 '25
Asbestos production in Canada, 1914-1923. Econ W n s 28:591-2 O 25 '24
Asbestos production in Quebec. W. G. Kennedy. Can Eng 46:174 Ja 22 '24
Asbestos production of South Africa and the grades marketed. Eng & Min J 119:733 My 2 '25
Asbestos protected metal: its development, manufacture and uses. J. H. Young. il Am Inst Chem Eng Trans v 14:381-90 '21-'22
Automatically controlled asbestos mill. A. A. St Aubin. il diags Elec W 85:655-7 Mr 28 '25
Blue asbestos as a covering for steam boilers and pipes. Soc Chem Ind J (Chem & Ind) 44:796 Ag 7 '25
Canadian asbestos industry. Can Eng 49:337 S 22 '25
Canadian asbestos merger. Eng & Min J 119: 955 Je 13 '25
Johns-Manville service to railroads. 264p Johns-Manville, inc., Madison Av. & 41st St., New York '23
Manufacture of automobile brake lining. il India Rubber W 71:219-20 Ja '25
Manufacture of Raybestos brake and clutch linings. E. Sheldon. il Am Mach 62:727-30 My 7 '25
Mineral industry of the British Empire and foreign countries; statistics, 1919-1921. 16p Gt. Brit. Imperial mineral resources bur., London '24
New plant of Johns-Manville, inc., at Asbestos, Ill. W Soc E J 30:[current news] 144-5 O '25
Reclaiming asbestos locomotive lagging. C. H. Bilty. diag Ry Mech Eng 99:607 O '25
Roofing materials for chemical works; the development of A. P. M. Chem Age (Lond) 9: 508-9 N 10 '23
United States produced 310 tons of asbestos in 1923. Eng & Min J 118:612 O 18 '24

Testing

Directions for the study of non-ignitable and self-extinguishing boards and mouldings for electrical purposes. diags Inst E E J 63:51-9 D '24

ASBESTOS felt. See Felts (paper making)

ASBESTOS furnace cement. See Cement

ASCARITE
Ascarite; an absorbent used in the determination of carbon in steel by the direct combustion method. J. B. Stetser. Soc Chem Ind J (Chem & Ind) 43:637-8 Je 20 '24

ASH adsorption
Comparative ash adsorption of vegetable and bone chars. P. M. Horton and P. T. Sengson. Ind & Eng Chem 16:165-7 F '24

ASH handling
Aërial tramway removes ashes from Windsor power station. T. Thorsten. il diags Power 61:364-7 Mr 10 '25
Ash conveyor operates under water. il Power Pl Eng 29:691-2 Jl 1 '25
Ash disposal; details of appliances now used in power stations. G: F: Zimmer. il diags plans Electrician 91:721-5 D 28 '23
Ash disposal methods demand attention. il diags Power Pl Eng 29:884-8 S 1 '25
Ash-handling and removal. Cassier's Ind Management 11:457 O '24
Automatic disposal of boiler-house ash; Blackburn Meadows, Sheffield, aerial ropeway. il Elec R (Lond) 97:354-6 Ag 28 '25
Coal and ash handling by means of conveyor machinery and silo type bunkers. Iron Age 114 383 Ag 14 '24
Coal and ash handling in the power house. W. D. Wylde. bibliog il Cassier's Ind Management 12:30-7 Ja '25
Coal and ash handling plant at East Greenwich power station. G: F: Zimmer. il diag plan Cassier's Ind Management 12:431-3, 467-70 S-O '25
Coal and ash handling system at the Cherry river paper company. G. T. Birch. il Power 58:990-1 D 18 '23
Control of power production. C: L. Hubbard. il diags Factory 34:431-7+ Mr '25
How mechanical handling cuts power costs. M. W. Potts. diags Ind Management 68: 341-8 D '24
Installing simple and modern ash handling system at Homestead. Blast F & Steel Pl 12:85 Ja '24
Lignite ash-disposal plant. Electrician 95: 13 Jl 3 '25
Low-cost handling of coal and ashes. F. Schultz. il plan Management & Adm 8:623-6 D '24
Mechanical handling machinery at the British Empire exhibition, Wembley. il diags Cassier's Ind Management 11:355-60 Jl '24
Methods of coal and ash handling. Power Pl Eng 29:785-6 Ag 1 '25
New ash handling system employs belt conveyor and quenching tanks. il diags Power 60:996 D 16 '24
Operation of steam jet ash conveyors. Power Pl Eng 28:542 My 15 '24
Railway finds new source of revenue; hauling mine and power waste on contract basis. il Elec Ry J 62:934 D 1 '23
South African ash-handling plant for steam-driven power-station installation. A. Hossack. plan Mech Eng 47:296-7 Ap '25
Steam jet ash conveyors. C. H. S. Tupholme. Cassier's Ind Management 11:427-8 S '24
Le transporteur de cendres Usco. il diag Génie Civil 83:547-8 D 1 '23
Water sluice ash conveying. Chem Age (Lond) 13:152 Ag 8 '25
See also Ash pits

Cost
Cinder handling cost halved. il Ry Age 77: 362 Ag 30 '24; Same. Ry Mech Eng 98:637-8 O '24; Same cond. Ry R 75:294-5 Ag 23 '24

ASH pits
Asbestos packed ash pit doors with self seating feature. il diags Power Pl Eng 28:1280 D 15 '24
Grating protects ash pits. il diag Ry R 77:568-9 O 10 '25
Poor ashpit design. R. C. Warner. diag Power 60:222 Ag 5 '24
Safety covers for water type ash pits. il Ry Mech Eng 99:718 N '25

ASHES
Makes money from ashes. S. H. Bunnell. diag Power Pl Eng 28:964-5 S 15 '24
See also Ash handling; Coal ash

ASHEVILLE, North Carolina
Asheville; a story of its industrial growth. J. Cope. il Manuf Rec 86:59-66 D 25 '24
Upbuilder of Asheville. il Manuf Rec 86:479-82 pt 2 D 11 '24

ASIA
See also China; Far East; Japan

Commerce
Decade's growth of Asia's foreign trade. F. R. Eldridge. Econ W n s 28:261-2 Ag 23 '24

Economic conditions
Economic pressure as a cause of the revolt of the Asiatic peoples against Occidental exploitation. C: C. Batchelder. Ann Am Acad 112:258-68 Mr '24

ASPEN
Chemical studies on the pulping of aspen. F. G. Rawlings and J. A. Staidl. Paper Tr J 81:49-51 Ag 20 '25

ASPERGILLUS oryzae
Constitution of kojic acid; α γ- pyrone derivative formed by aspergillus oryzae from carbohydrates. T. Yabuta. Chem Soc J 125:575-87 Mr '24

ASPHALT
Amalgamating metal used in molding asphalt. L. J. Catlin. Ind & Eng Chem 17:521 My '25
Asphalt in lubricating oils. E. A. Evans. Inst Pet Tech J 9:384-8 O '23
Asphalt in modern highway construction. F. P. Smith. Good Roads 66:98-100, 130-2 Ap-My '24
Asphalt, paraffin and residuals. J. B. Rathbun. Pet Age 16:57 S 1 '25
Asphalt; pocket reference for engineers. 71p Asphalt assn., 23 W 43d St., New York '23
Asphalt rock mined in Kentucky. Can Eng 47:136 Jl 8 '24
Asphalt seals concrete cutoff in rock fill dam. diag Eng N 94:532 Mr 26 '25
Asphalts. Pet Age 16:53, 55 Jl 15 '25
Bentonite helps solve problem in grinding asphalt. H. S. Spence. Chem & Met Eng 30:986 Je 23 '24
Blown oils. H. B. Pullar. Am Soc T M Pro 24 pt 2:943-8; Discussion. 949-53 '24
Classifying asphalt sands by graphical method. W. C. D. Haarman. Eng N 92: 1090-1 Je 26 '24
Cold-mix rock asphalt production and road-building. il diags Eng N 92:886-90 My 22 '24
Constitution of asphalt. F. J. Nellensteyn. Inst Pet Tech J 10:311-25 Je '24; Discussion. J. E. Hackford. 10:717-19 O '24
Constitution of asphalt. H. I. Waterman and F. J. Nellensteyn. Inst Pet Tech J 11:81-2 F '25
Handbook of petroleum, asphalt and natural gas. R. Cross. Rev. ed. 739p Kansas City testing laboratory, Kansas City, Mo. '24
Increased production of asphalt from petroleum. Munic & Co Eng 67:157 S '24
Kentucky rock asphalts—their character and utilization. C. P. McCormack. Nat Pet N 17:41-2 F 11 '25
Oklahoma well yields liquid asphalt. il Eng & Min J 117:799 My 17 '24
Only nine grades of asphalt. Can Eng 45: 484 N 13 '23
Review of the asphalt industry for 1923. J. E. Pennybacker. Manuf Rec 85:73-4 Ja 10 '24
Rock asphalts of Alabama and their use in paving. G: H. Clark. 96p Alabama. Geol. survey, University '25
Some observations on the colloidal character of asphalts. R. E. Kirk and L. H. Reyerson. J Phys Chem 29:865-71 Jl '25
Status of asphalt. Chem Age 32:377-9 S '24
Trinidad asphalt lake model attracts American visitors. il Good Roads 67:81-2 S '24
Ultramicroscopical researches on asphalt. F. J. Nellensteyn and A. J. P. van der Burgh. bibliog Inst Pet Tech J 11:346-8 Ag '25
Use of petroleum and its products for road construction. J. E. Pennybacker. Am Pet Inst Bul 4:66-73 D 31 '23
See also Asphalt plants; Gilsonite; Pavements, Asphalt; Roads, Asphalt

Specifications
Asphalt specifications recommended. Chem & Met Eng 29:1189 D 31 '23

ASPHALT—Specifications—*Continued*
United States government master specification for asphalt for mineral-surfaced roofing. diag U S Bur Stand Circ 159:1-10 '24
United States government master specification for asphalt for unsurfaced built-up roofing. diags U S Bur Stand Circ 168:1-10 '24
United States government master specification for asphalt for waterproofing and damp proofing. diags U S Bur Stand Circ 160:1-9 '24

Standards

Asphalt producers report on actual use of simplified grades. Eng N 92:1038-9 Je 12 '24

Storage

Storage tanks for asphalt and road oil. W. H. Kershaw. Eng & Contr (R & S) 60:962 N 7 '23

ASPHALT association
Annual conference, 3d, Louisville, Ky., Oct. 13-15. Eng N 93:685 O 23 '24; Can Eng 47: 559-60 D 2 '24
Fourth annual asphalt paving conference, Detroit, Oct. 21-23. Munic & Co Eng 69:75-7 Ag '25; Eng N 95:731 O 29 '25; Can Eng 49: 512+ N 3 '25

ASPHALT blocks
Asphalt blocks make satisfactory protection for waterproofing. M. Hirschthal. il Eng N 92:397 Mr 6 '24
Construction of asphalt blocks. G: P. Hemstreet. Can Eng 46:410 Ap 8 '24

ASPHALT floors. See Floors, Asphalt

ASPHALT handling
Handling asphalt freight traffic in liquid form. O. C. Stein. Good Roads 65:156-7 N 7 '23
Suggestions for handling asphalt shipments in tank cars. C. A. Talley. Good Roads 67: 143-5 N '24; Same. Eng & Contr (R & S) 62:1234-8 D 3 '24; Same. Can Eng 48:169-70 Ja 27 '25

See also Asphalt pumps

ASPHALT mixers
Finley asphalt mixer. il Pub Works 55:38 F '24

ASPHALT pavements. See Pavements, Asphalt

ASPHALT plants
Army rolling kitchens transformed into asphalt heating kettles. L. Ehlinger. il diags Eng N 94:32 Ja 1 '25
Dufferin company's new base at the foot of Bathurst st., Toronto. il Can Eng 47:341-2 S 16 '24
New asphalt heating and melting kettles. il Eng & Contr (R & S) 62:773 O 1 '24
New portable asphalt plant made by the Chausse oil burner co. il Eng & Contr (R & S) 63:1011 My 6 '25

Inspection

Plant inspection of asphaltic paving mixtures. W. J. Emmons. Eng & Contr (R & S) 59: 999-1008 My 2 '23; Same. Good Roads 66: 5-8+, 47-50+ Ja-F '24; Same cond. Eng N 89:1112-16 D 28 '22

ASPHALT plants, Municipal
Operation of municipal asphalt plant of Los Angeles. Eng & Contr (R & S) 60:954-5 N 7 '23
St Joseph municipal asphalt plant. plan Pub Works 56:83-4 Mr '25

ASPHALT pumps
Iroquois steam jacketed asphalt pump. il Eng & Contr (Equip R) 62:955 O 29 '24

ASPHALT shingles. See Shingles, Asphalt

ASSAYING
Analyzing concentrates graphically; how to construct and use nomographic charts. H. Rose. charts Eng & Min J 120:565-8 O 10 '25
Assaying for platinum. W. H. Hampton. Eng & Min J 117:411-12 Mr 8 '24; Discussion. 118:59 Jl 12 '24
Commercial practice in sampling and essaying copper. A. M. Smoot. Eng & Min J 120: 605-11 O 17 '25
Computing assays on total tonnages. M. Drunzer. Eng & Min J 119:252 F 7 '25
Flame test for copper an aid in the study of croppings. C: H: White. Eng & Min J 117:568-9 Ap 5 '24
Nipissing assay for fine bullion. A. P. Van Zwaluwenburg. Eng & Min J 119:203-4 Ja 31 '25
Tested methods of mineral analysis. B. T. Kitto. 127p H. F. & G. Witherby, London '24

See also Ore sampling

ASSEMBLING methods
Assembling cylinder of 50,000-kilowatt turbine. il Power 62:600-1 O 20 '25
Assembling generator rotors. R. Brown. il Power 59:566-7 Ap 8 '24
Assembling Packard cylinder blocks to crankcases. C: O. Herb. il Mach 31:99-100 O '24
Assembling sprinkler heads. il diag Mach 30: 603-4 Ap '24
Assembling 22,000-kva. waterwheel generator. R. Brown. il Power 60:278-81 Ag 19 '24
Building a semi-rigid airship. J: Younger. il diags Am Mach 61:867-72 D 4 '24
Chevrolet Tarrytown plant assembles 600 complete cars a day. H. Chase. il plan Automotive Ind 50:666-71 Mr 20 '24
Compact automobile assembly plant; Jordan motor car co. plan Am Mach 61:580-1 O 9 '24
Conveying sub-assemblies in the Oakland plant. H. Campbell. il diags Am Mach 60: 831-3 Je 5 '24
Extending the use of progressive assembly. W. A. Smith. il Factory 35:466+ S '25
Finding the right equipment for each job. R. M. Hidey. il Factory 35:369-71 S '25
Ford's assembly conveyor at Wembley. G: F: Zimmer. il Cassier's Ind Management 12:362-4 Jl '25
Material handling is cut to minimum in Jewett assembly plant. W. L. Carver. il Automotive Ind 50:281-8 F 7 '24
Mechanical handling at River Rouge; the saw mill and the tractor assembly. M: W. Potts. il diags plans Ind Management 68: 92-103 Ag '24
Modern plant as a production machine. E. H. Nenning. il Am Mach 61:273-6 Ag 14 '24
Packard bodies assembled in metal jigs to minimize hand fitting. il Automotive Ind 50: 1272-3 Je 12 '24
Special fixture used in assembling Packard cylinder block to crankcase. il Automotive Ind 50:564-5 Mr 6 '24
This board saves time and confusion. Factory 33:785 D '24
Using conveyors in small plants. H. P. Harrison. il Iron Tr R 73:1428-32 N 22 '23
What Ford has done in the Lincoln plant. F. H. Colvin. il Am Mach 60:5-8 Ja 3 '24

ASSESSMENT
Financing main pipe extensions by the assessment method. C. M. Saville. Eng & Contr (W W) 64:859-64 O 14 '25; Abstract. Eng N 95:471 S 17 '25
Financing service and supply main extensions by local assessment. P. Diederich. Eng & Contr (W W) 61:77 Ja 9 '24
Illinois special assessment law with special reference to the security of bonds issued thereunder. A. H. Little. I B A of A 13:93-9 N 29 '24
Proposed plan for financing Detroit rapid transit lines. Elec Ry J 62:963-6 D 8 '23; Same cond. Eng & Contr (Ry) 61:131-4 Ja 16 '24
Special assessments for local improvements in Maryland. R. K. Compton. Good Roads 56:51-4 F '24
Special assessments for public improvements in Memphis, Tenn. C. C. Pashby. Munic & Co Eng 67:182-3 O '24

See also Valuation

ASSESSMENT maps
Making Rochester's assessment maps. Pub Works 56:208-9 Je '25
Real value of keeping assessment maps accurate and up-to-date. B. K. Finch. Eng N 94:801-2 My 14 '25

ASSOCIATED advertising clubs of the world
Advertising club work in Europe to be strengthened. Ptr Ink 133:113-14 O 29 '25
Advertising convention in retrospect. Ptr Ink 128:17-18 Jl 24 '24
Advertising will unite nations in closer bond, was view of international ad convention at London. Manuf Rec 86:77-81 Ag 14 '24
Annual convention, 21st, Houston, Texas. Ptr Ink 131:41-2+ My 21 '25; Ptr Ink 131:33-48 My 14 '25; Manuf Rec 87:111-12 Je 4 '25
Associated advertising clubs report on fiscal year. Ptr Ink 128:124+ S 25 '24
International advertising convention; public utilities section. Gas J (Lond) 167:389-91, 458-60 Jl 23-30 '24
London convention echoes. R. Dickinson. Ptr Ink 128:57-8+ Ag 7 '24
London discusses advertising's place in world selling. R. Dickinson. Ptr Ink 128:10+ Jl 17 '24
Lou Holland calls for suggestions. Ptr Ink 128:184+ S 18 '24
National commission meets with district advertising association. Ptr Ink 126:125-6+ Ja 31 '24
Woodbridge made head of advertising club movement. Ptr Ink 131:53-4+ My 21 '25

ASSOCIATED business papers, incorporated
Making the business paper a better servant of industry. Ptr Ink 133:65-6+ O 22 '25

ASSOCIATED gas and electric company
Annual report for the year ended December 31, 1924. Comm & Fin Chr 121:2289-91 N 7 '25
Associated gas and electric buys the Pennsylvania electric corporation for $175,000,000. Power 62:268 Ag 18 '25

ASSOCIATED general contractors
Annual convention, Chicago, Jan. 21-24. Eng N 92:194-5 Ja 31 '24
Annual convention, Washington, Jan. 12-14. Eng N 94:155-8 Ja 22 '25
Contractor or constructor—an open discussion. Eng N 94:119 Ja 15 '25
Recent activities of Associated general contractors. Eng & Contr (Bldgs) 62:706-8 S 24 '24

ASSOCIATED knit underwear manufacturers of America
Annual meeting, Atlantic City, May 22-23. Textile World 65:3561-2+, 3616+ My 31 '24
Annual meeting, Atlantic City. Textile World 67:3401-2+ My 23 '25
Meeting, Utica, Nov. 14-15. Textile World 64: 3007-8+ N 17 '23
Semi-annual meeting, Utica, N.Y., Dec. 10-11. Textile World 66:2437-40+ D 13 '24

ASSOCIATED oil company and proprietary and affiliated companies
Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:2540 My 16 '25; Nat Pet N 17:100 Ag 12 '25

ASSOCIATED press
Associated press is checkmating the space grabber. Ptr Ink 127:77-8+ Ap 10 '24
Quarter century of news service. Bradstreet's 53:273 Ap 25 '25

ASSOCIATION, Molecular. See Molecular association

ASSOCIATION and associations
Freedom of association and trade unionism: an introductory survey. J. Nicod. Int Labour R 9:467-80 Ap '24

See also Advertising, Association; Benefit societies; Cooperation; Corporations; Employees' associations; Technical associations; Trade associations; Trade unions; *also* names of associations, e.g. American electric railway association

ASSOCIATION Island, New York
Visit to Association Island. L. G. Hawkins. Elec R (Lond) 93:822 N 30 '23
Why our Dallas man calls our Erie manager Ed. H. F. Barnes. il System 45:634-6 My '24

ASSOCIATION of bank women
Association of bank women. L. Backus. Bankers M 109:852-3+ O 31 '24
Convention. Bankers M 111:567-70 O '25
Women making great progress in banking. Am Bankers Assn J 17:248 O '24

ASSOCIATION of British chemical manufacturers
Annual general meeting, 8th, July 17. Soc Chem Ind J (Chem & Ind) 43:785-8 Ag 1 '24
Annual general meeting, July 9. Chem Age (Lond) 13:64-5 Jl 18 '25
Annual report for the year ending May 31. Soc Chem Ind J (Chem & Ind) 43:765-8 Jl 25 '24

ASSOCIATION of Canadian building and construction industries
Annual convention, 6th, Windsor, Ont., Jan. 22. Can Eng 46:211-13 F 5 '24
Convention, 7th, Montreal, Jan. 28-30. Can Eng 48:188-90 F 3 '25

ASSOCIATION of cotton textile merchants of New York
Plan for cotton goods statistics. Textile World 68:348 Jl 18 '25

ASSOCIATION of direct-selling companies, incorporated
Annual convention, 1st, Philadelphia, Oct. 21-22. Ptr Ink 133:156-7 O 29 '25

ASSOCIATION of Dominion land surveyors
Meeting, 17th, Ottawa, Feb. 6-7. Can Eng 46: 257-8 F 19 '24
Meeting, 18th, Ottawa, Feb. 4-5. Can Eng 48:231-2 F 17 '25

ASSOCIATION of electragists international
Annual convention, 24th, West Baden, Ind. Elec W 84:756 O 4 '24
Trade policy of the electragists. O. F. Rost. il Elec W 86:820-1 O 17 '25

ASSOCIATION of governmental labor officials of the United States and Canada
Annual convention, 11th, Chicago, Ill., May 19-23. Monthly Labor R 19:34-7 Jl '24
Annual convention, 12th, Salt Lake City, Aug. 13-15. Monthly Labor R 21:702-4 O '25
Work of Association of governmental labor officials, 1923-24. J: H. Hall, jr. Monthly Labor R 19:33-4 Jl '24

ASSOCIATION of iron and steel electrical engineers
Annual convention, 19th, Pittsburgh, Sept. 15-19. Blast F & Steel Pl 12:408-16, 469-73+ S-O '24; Elec W 84:678-82 S 27 '24; Iron Tr R 75:816-17 S 25 '24; Power 60:513-14 S 23 '24; Ind Eng 82:464-74 O '24; Power Pl Eng 28:1074-5 O 15 '24
Annual convention, 20th, Philadelphia, Sept. 14-19. Blast F & Steel Pl 13:370, 410-13 S-O '25; Iron Age 116:827-30 S 24 '25; Iron Tr R 77:733-4 S 24 '25; Power 62:465-6 S 22 '25; Ind Eng 83:462-72+ O '25
Second annual fuel conference, Pittsburgh, May 13-14. Power 61:807 My 19 '25
Service of A.I.& S.E.E. to the industry. A. C. Cummins. Elec J 22:409-10 S '25

ASSOCIATION of life agency officers
Association of life agency officers. L. S. Lindsay and A. G. Borden. Spectator 113:31-2 sec 2 Jl 17 '24
List of registrants at 8th annual meeting. Spectator 113:19+ N 20 '24

ASSOCIATION of life insurance presidents
Association of life insurance presidents. G: T. Wight. Spectator 113:25-8 sec 2 Jl 17 '24

ASSOCIATION of national advertisers
Advertisers invite co-operation of agents and publishers. Ptr Ink 129:60+ N 27 '24
Association of national advertisers sees broader field of endeavor. Ptr Ink 125:144+ N 15 '23
Contribution to better present business practices. J: Sullivan. Ann Am Acad 115:116-23 S '24
Report of P. L. Thomson, president. Ptr Ink 125:141-2+ N 22 '23
Sales subjects that interested Association of national advertisers; Association's annual convention. Ptr Ink 125:37-8 N 22 '23
Semi-annual convention, Chicago. G. A. Nichols. Ptr Ink 131:125-6+ My 14 '25
Semi-annual convention, Cleveland. Ptr Ink 127:25-6+ Je 5 '24

ASSOCIATION of natural gasoline manufacturers
Annual convention, 3d, Tulsa, April 23-24. Pet Age 13:21-2, 80-3 My 1 '24; Nat Pet N 16:23-9, 30-2+ Ap 30 '24
Annual convention, 4th, Tulsa, April 22-23. Nat Pet N 17:40B-L Ap 29 '25; Pet Age 15: 24-5 My 1 '25
How natural gasoline association has stabilized the industry. J. C. Chatfield. Nat Pet N 17:25-6 Ap 8 '25

ASSOCIATION of newspaper advertising executives
Convention, Columbus, Ohio, June 9-11. Ptr Ink 127:113-14 Je 12 '24
Newspaper advertising executives elect officers. Ptr Ink 132:68 Jl 30 '25

ASSOCIATION of official agricultural chemists
Annual convention, 41st, Washington, Oct. 26-28. Oil Paint & Drug Rep 108:22 N 2 '25

ASSOCIATION of Ontario land surveyors
Annual meeting, 32d, Toronto, Feb. 19-21. Can Eng 46:285-6 F 26 '24
Annual meeting, 33d, Toronto, Feb. 17-19. Can Eng 48:249-50 F 24 '25

ASSOCIATION of professional engineers of the province of British Columbia
Annual conference, 5th, Vancouver, B.C., Dec. 6. Can Eng 47:609-10 D 16 '24

ASSOCIATION of railway claim agents
Annual convention, 35th, West Baden, Ind., May 21-23. Ry Age 76:1315-17 My 31 '24
Annual meeting, 36th, Winnipeg, Man., June 17-19. Ry Age 78:1637-40 Je 27 '25

ASSOCIATION of railway electrical engineers
Annual convention, 14th, Chicago, Nov. 6-9. Ry Age 75:919-21 N 17 '23
Annual convention, 15th, Chicago, Oct. 21-24. Ry Age 77:790-2 N 1 '24; Ry R 75:633-5 O 25 '24
Annual convention, 16th, Chicago, Oct. 27-29. Ry R 77:662-3 O 31 '25; Ry Age 79:861-2 N 7 '25

ASSOCIATION of railway executives
Joint meeting with the American railway association, Chicago, May 15. Ry Age 76: 1253-4 My 24 '24

ASSOCIATION of reserve city bankers
Annual meeting, Dallas, April 14-16. Comm & Fin Chr 118:2144 My 3 '24

ASSOCIATION of special libraries and information bureaus
Chemical papers at the library conference, Oxford. Chem Age (Lond) 13:348-9 O 3 '25

ASSOCIATION of technical institutions
Annual meeting, London, Mar. 6-7. Engineer 139:302-3 Mr 13 '25
Summer meeting, Bournemouth, July 10-11. Engineer 140:56 Jl 17 '25

ASSOCIATION technique de fonderie de France
Congress, 4th, Paris, Nov. 21-23. Foundry 52:990+ D 15 '24; Iron Age 114:1557 D 11 '24; Iron Tr R 75:1586-7 D 11 '24

ASSOCIATIONS, Trade. See Trade associations

ASSORTMENT packages. See Package goods

ASSORTMENT selling. See Sales units

ASTEROIDS
Moon which turned out to be a planet. diag Sci Am 132:410-11 Je '25

ASTORIA, Oregon
Concrete used extensively in rebuilding Astoria, Oregon. il Concrete 26:178-81 My '25
See also Motor bus lines—Astoria, Oregon

Harbor
Ports of Portland and Astoria, Oregon, and Vancouver, Washington. 238p U.S. Engineer dept., Board of engineers for rivers and harbors, Washington '25

Streets
Fills replace piles under city streets in Astoria, Ore. diags Eng N 94:860 My 21 '25
Fire-proof streets in Astoria. Pub Works 56: 11-12 Ja '25
Underground structures in Astoria streets. R. A. McClanathan. plan Pub Works 56:81 Mr '25

ASTRONOMICAL instruments
See Telescopes

ASTRONOMICAL models
Heavens built of concrete. G. H. Morison. il Sci Am 132:170-1 Mr '25
Das projektions-planetarium des deutschen museums in München. W. Bauersfeld. il diags Zeit Ver Deutsch Ing 68:793-7 Ag 2 '24

ASTRONOMICAL photography
Data pertaining to eclipse photography; solar eclipse, January 24, 1925. L. A. Jones. Illum Eng Soc 20:609-17 Jl '25

ASTRONOMICAL photometry. See Photometry, Astronomical

ASTRONOMY
Astronomy and the engineer. S. L. Boothroyd. il Sibley J 37:115-16 My '23
See also Azimuth; Earth; Eclipses, Solar; Solar system; Stars; Sun

ATCHISON, Topeka & Santa Fe railway
Annual report, 29th, 1923. Comm & Fin Chr 118:2062-3 Ap 26 '24; Same. Ry Age 76: 1117-18 My 3 '24
Annual report, 30th, 1924. Ry Age 78:1009-11 Ap 18 '25; Same. Comm & Fin Chr 120: 2032-3 Ap 18 '25; Abstract. Ry R 76:749-50 Ap 18 '25
Apprenticeship methods on the Santa Fe. il Ry Mech Eng 98:355-9, 415-18, 467-72, 527-31 Je-S '24
Atchison and Santa Fe common stock. Moody's Inv Serv 17:19, 283 Ja 8, Ag 27 '25
Atchison common—its earning power and value. P. Gourrich. Annalist 25:351-2 Mr 9 '25
Atchison, Topeka & Santa Fe railway. Moody's Inv Serv 16:49-52 Ja 31 '24
Back of an increased dividend; the new rate of the Atchison, Topeka & Santa Fe railway. C: F. Speare. Am Bankers Assn J 17: 490 F '25
Double-tracking and relocation on the Santa Fé Ry. il map Eng N 94:382-8 Mr 5 '25
Financial structure of the Atchison. G. C. Cox. Annalist 24:575 D 1 '24
Santa Fe earns five times interest charges. map Ry Age 76:1094-6 My 3 '24
Santa Fe has record-breaking year. Ry Age 78:997-9 Ap 18 '25

ATHLETES
Making sport a science; devices and tests which determine the individual fitness of candidates. A. Gradenwitz. il Sci Am 129: 398+ D '23

ATHLETIC fields
See also Stadia

Lighting
Artificial lighting of a football field. il Illum Engr 17:56-8 Ap '24

ATHLETIC goods. See Sporting goods

ATHLETICS
Compulsory athletics; intensive social and moral training. H: S. Curtis. Nation's Health 6:256-7 Ap '24
Railroad health and recreation programs. B. F. Bryant and others. Ry Age 77:15-18 Jl 5 '24

ATHOL, Massachusetts
Architecture
Athol memorial building, Athol, Massachusetts; views and plans. Arch Rec 56:545-51 D '24

Rapid transit
Massachusetts towns provide their own transportation; towns of Athol, Orange, Greenfield and Montague take over lines. map Elec Ry J 65:59-61 Ja 10 '25

ATLANTA, Georgia
Atlanta and the North Georgia empire. A. H. Temple. il Comm & Fin 13:401+ F 20 '24

ATLANTA, Georgia—*Continued*
Inspiring story of growth in trade, industry, finance, education and music. J. H. Reed. il Manuf Rec 85:76-84 F 28 '24
What to avoid in staging a sales campaign in Atlanta. il Sales Management 6:989-90+ My '24

Hotels

Atlanta-Biltmore hotel; views and plans. Arch Forum 39:266-7, pl 94 N '23

Rapid transit

Another Atlanta hearing on March 4. Elec Ry J 63:349 Mr 1 '24
Atlanta improvements to cost $9,000,000. Elec Ry J 65:55-7 Ja 10 '25
Atlanta regulates jitney. Elec Ry J 65:234 F 7 '25
Continuous transit proposed for Atlanta; underground moving sidewalks. diags Elec Ry J 65:136-8 Ja 24 '25
Fare hearing opened at Atlanta. Elec Ry J 63:87-8, 349 Ja 12, Mr 1 '24
Plan to give Atlanta ideal local transit service; report of the Beeler organization. maps Aera 13:1134-52 F '25
Plans for increased travel. Elec Ry J 65:311 F 21 '25
Service readjustments would increase Atlanta earnings $700,000. maps Elec Ry J 65:181-5 Ja 31 '25
$16,500,000 Atlanta valuation figure questioned. Elec Ry J 65:317 F 21 '25
Strong case by dissenting arbitrator in Atlanta recent wage dispute. Elec Ry J 65:1027-8 Je 27 '25
Unregulated jitney competition decreases traffic in Atlanta. Elec Ry J 65:791 My 16 '25

Streets

Relieving congestion on Atlanta streets. il Elec Ry J 63:817-18 My 24 '24

Water supply

Municipal water supply problems of Atlanta, Georgia. P. H. Norcross. il diags plans map Am Soc C E Pro 51:969-98 Ag '25; Discussion. J. N. Chester and N. Wingfield. 51: 1856-60 N '25

ATLANTA trust company
Banker turned farmer. J. H. Reed. Comm & Fin 14:1269 Jl 1 '25

ATLANTIC and Pacific company
Largest grocery chain takes a hand at institutional advertising. Ptr Ink 129:107-8 D 11 '24

ATLANTIC City, New Jersey

Architecture

From sand dunes to a magic city. C: G. Peker. il plans Bldg Age 47:78-87+ Jl '25

ATLANTIC Coast Line railroad
Abstracts of annual report, 1923. Comm & Fin Chr 118:2591-2 My 24 '24
Abstracts of ninety-first annual report—for the year ended December 31, 1924. Comm & Fin Chr 120:2698-9 My 23 '25
Atlantic Coast Line. Moody's Inv Serv 16: 289-92 Jl 24 '24
Story of a railroad. il map Manuf Rec 86: 436-41 pt 2 D 11 '24

ATLANTIC refining company
Atlantic refining company common stock. Moody's Inv Serv 16:147 Ap 10 '24
Selecting the salaried employee. E. J. Benge. Ind Management 69:279-83; 70:16-20 My, Jl '25

ATMOSPHERE
Atmosphere and its relations to human health and comfort. C.-E. A. Winslow. Am Soc C E Pro 51:794-810 My '25; Discussion. 51: 1160-5 Ag '25
Auroral spectrum and upper atmosphere. Sci Am 131:307 N '24
Behavior of radio waves and the Heaviside layer. O. Lodge. il Radio N 6:898-9+ D '24
Effect of the atmosphere on radio waves. J. M. Guinchant. diags Radio N 6:1854-5+ Ap '25
Haze and mist. G. C. Simpson. Sci Am 130: 33 Ja '24
Heaviside layer. Engineer 139:192 F 13 '25
Musical atmospheric disturbances. T. L. Eckersley. Philos Mag 6th ser 49:1250-60 Je '25
Overworked Heaviside layer problem and a possible alternative. G. W. O. Howe. Electrician 92:720 Je 13 '24
Standard atmosphere. W. R. Gregg. U S Nat Advisory Com for Aeronautics 1922:397-408 '23

See also Air; Meteorology; Winds

ATMOSPHERIC electricity
Absence of ionization by electrons with speeds comparable with that of light. W. F. G. Swann. Philos Mag 6th ser 47:306-19 F '24
Atmospheric electric observations taken at the University of Chicago during the total eclipse of January 24, 1925. E. N. Coade and W. W. Merrymon. diags J Fr Inst 200:497-9 O '25
Atmospheric electric observations taken at Yale university during the total eclipse of January 24, 1925. W. F. G. Swann. diag J Fr Inst 200:489-96 O '25
Observations on residual ionization in a closed vessel, taken at Biwabic, Minnesota, during the solar eclipse of January 24, 1925. H: A. Erikson. J Fr Inst 200:505-6 O '25
Observations on the variations of the potential gradient of the atmosphere taken at the University of Minnesota during the time of the eclipse of January 24, 1925. A. Zeleny. J Fr Inst 200:501-3 O '25
Unsolved problems of cosmical physics. W. F. G. Swann. diags J Fr Inst 195:433-74 Ap '23; Excerpt. Sci Am 129:413 D '23

See also Auroras; Lightning; Thunderstorms

ATMOSPHERIC pollution. See Air pollution

ATMOSPHERIC pressure
Back to first principles; plain answers to direct questions on present-day heating and ventilating practice. T. W. Reynolds. diags Heat & Ven 21:60-1 Ag '24
Meaning of atmospheric pressure. T. M. Gunn. diag Power 58:811-13 N 20 '23
Physics of air for furnacemen. T: Newton. Sheet Metal Worker 14:987-8; 15:7-8+ Ja 18-F 1 '24
Pressures—how measured. C. L. Hubbard. diags Sanitary & Heat Eng 103:283-5 My 1 '25

ATMOSPHERIC temperature
Air motion—high temperatures and various humidities—reactions on human beings. W. J. McConnell, F. C. Houghten and C. P. Yaglogiou. il Am Soc Heat & V E J 30:199-224 Mr '24
New data on the weather in the United States; with weather data tables. G. J. O'Connor. Heat & Ven 21:47, 84-7 Ja '24
Turbulence and vertical temperature difference near trees. L: F. Richardson. Philos Mag 6th ser 49:81-90 Ja '25

ATMOSPHERICS. See Radio communication—Interference

ATOMIC forces
Can energy in the atom be utilized. Brass W 21:284 Ag '25
Characteristic vibration frequency of an element. J. E. P. Wagstaff. Philos Mag 6th ser 47:84-90 Ja '24
Energy in the atom: can man utilize it? E. Rutherford. Mech Eng 46:500 Ag '24
Law of force within the atom. G: Green. Philos Mag 6th ser 49:1020-8 My '25
Putting the atom to work. O. Lodge. il Sci Am 130:306-7+ My '24

ATOMIC numbers
Complexity of the elements. A. S. Russell. Philos Mag 6th ser 47:1121-40; 48:365-78 Je, S '24
Dependence of the intensity of the Compton effect upon the atomic number. B. Davis. Phys R 25:737-9 Je '25
Quantum defect and atomic number. L: A. Turner. Philos Mag 6th ser 48:384-95, 1010-14 S, N '24; Discussion. D. R. Hartree. 49: 390-6 F '25

ATOMIC numbers—*Continued*
Relationship between atomic numbers and the properties of ions in the crystal lattice. A. F. Scott. J Phys Chem 29:304-18 Mr '25

ATOMIC theory
Recent developments in atomic theory. L. Graetz. 174p Dutton '23
Über atomtheorie. M. Born. il Elektrotech Zeit 45:889-97 Ag 21 '24

ATOMIC weights
Annual report, 30th, of the committee on atomic weights; determinations published during 1923. G. P. Baxter. Am Chem Soc J 46:523-33 Mr '24
Annual report, 31st, of the committee on atomic weights; determinations published during 1924. G. P. Baxter. Am Chem Soc J 47:601-10 Mr '25
Atomic weight of lead from the Belgian Congo. T. W. Richards and P. Putzeys. Am Chem Soc J 45:2954-8 D '23
Atomic weight of zirconium. F. P. Venable and J. M. Bell. Am Chem Soc J 46:1833-4 Ag '24
Atomic weights and isotopes. T. W: Richards. Chem R 1:1-37; Bibliography. 37-40 Ap '24
Atomic weights of carbon and silver. G: Dean. Chem Soc J 125:2656-72 D '24
Comparison of the atomic weights of terrestrial and meteoric cobalt; the analysis of cobaltous chloride. G. P. Baxter and M. J. Dorcas. Am Chem Soc J 46:357-66 F '24
Discovery and separation of the isotopes of chlorine and the whole number rule. W: D. Harkins and T. H. Liggett. J Phys Chem 28:74-82 Ja '24
International atomic weights; report of the International union of pure and applied chemistry, 1925. Am Chem Soc J 47:597-601 Mr '25; Same. Chem Soc J 127:913-17 Ap '25; Excerpt (table). Eng & Min J 119:580 Ap 4 '25
Observations on the rare earths; the purification and atomic weight of holmium. F. H. Driggs and B. S. Hopkins. diag Am Chem Soc J 47:363-9 F '25
Redetermination of the atomic weight of boron. H: V. A. Briscoe and P. L. Robinson. diags Chem Soc J 127:696-720 Mr '25
Redetermination of the atomic weight of bromine; the inseparability of the isotopes by fractional crystallisation. P. L. Robinson and H: V. A. Briscoe. diags Chem Soc J 127:138-50 Ja '25
Revision of the atomic weight of aluminum; the analysis of aluminum chloride. H: Krepelka. diags Am Chem Soc J 46:1343-51 Je '24
Revision of the atomic weight of antimony; the analysis of antimony trichloride. P. F. Weatherill. diags Am Chem Soc J 46:2437-45 N '24
Revision of the atomic weight of germanium; the analysis of germanium tetrabromide. G. P. Baxter and W: C: Cooper, jr. diag J Phys Chem 29:1364-78 N '25
Revision of the atomic weight of germanium; the analysis of germanium tetrachloride. G. P. Baxter and W: C: Cooper, jr. diags J Phys Chem 28:1049-66 O '24
Use of fused borax in the determination of the atomic weight of boron. H: V. A. Briscoe, P. L. Robinson and G: E: Stephenson. diag Chem Soc J 127:150-62 Ja '25
See also Molecular weights

ATOMIZED coal. See Coal, Atomized

ATOMIZERS, Mechanical. See Oil burners

ATOMS
The A B C of atoms. B. A. W: Russell. 162p Dutton '23
Atómaufbau und atomzertrümmerung. M. v. Laue. il diags Zeit Ver Deutsch Ing 68:769-73 Jl 26 '24
Atomic dimensions and gaseous hydride formation. H. L. Riley. Philos Mag 6th ser 48:126-8 Jl '24
Atomic physics and its relation to chemical engineering. P. D. Foote. diags Am Inst Chem Eng Trans v 15 pt 2:105-22; Discussion. 123-7 '23
Atomic structure. J. D. M. Smith. Soc Chem Ind J (Chem & Ind) 43:323-5 Mr 28 '24
Atomic structure and co-ordination number. J. D. M. Smith. Soc Chem Ind J (Chem & Ind) 44:944-7 S 25 '25
Atomic structure and the reflexion of X-rays by crystals. D. R. Hartree. Philos Mag 6th ser 46:1091-1111 D '23
Atomic structure factor in the intensity of reflexion of X-rays by crystals. D. R. Hartree. Philos Mag 6th ser 50:289-306 Jl '25
Atomism in modern physics. R. A. Millikan. diags Chem Soc J 125:1405-17 Jl '24
Atoms and electrons. J: W: N. Sullivan. 188p Doran '24
Atoms and ethereal radiations. R. A. Millikan. Soc Chem Ind J (Chem & Ind) 43: 654-5 Je 27 '24
Atoms and isotopes; abstracts. F. W. Aston. Engineer 137:637-8 Je 6 '24; Chem Age (Lond) 10:592 Je 7 '24; Elec R (Lond) 94: 947-8 Je 6 '24; Engineering 117:770-1 Je 13 '24; Soc Chem Ind J (Chem & Ind) 43:598-9 Je 6 '24; Blast F & Steel Pl 12:338-9 Jl '24; Brass W 20:302 S '24
Atoms and rays. O. Lodge. 208p Doran '24
Balmer law an equation of motion. L. Page. Phys R 25:429-43 Ap '25
Bohr atom. J. D. M. Smith. Soc Chem Ind J (Chem & Ind) 42:1073-8 N 9 '23
Bohr atom and covalency. N. V. Sidgwick. Soc Chem Ind J (Chem & Ind) 42:1203-6 D 14 '23
Bohr's model of the atom. E. E. Free. Ind & Eng Chem 16:192-4 F '24
Carbon atom in crystalline structure. W: H: Bragg. J Fr Inst 198:615-25 N '24
Chemical action produced by radon; revision of the chemical effect of recoil atoms. S. C. Lind and D. C. Bardwell. Am Chem Soc J 46:2003-9 S '24
Chemistry and atomic structure. J. D. M. Smith. 221p E. Benn, ltd., London '24; Review, by T. M. Lowry. Soc Chem Ind J (Chem & Ind) 44:287-8 Mr 13 '25
Compressibility, internal pressure and change of atomic volume. T. W: Richards. diags J Fr Inst 198:1-25; Bibliography. 25-7 Jl '24
Concerning the nature of things. W: Bragg. 250p Harper '25
Counting of atoms; abstracts. E. Rutherford. Engineering 119:296-8, 326-8, 358-9, 410-11 Mr 6-20, Ap 3 '25; Engineer 139:278, 331, 362 Mr 6, 20-27 '25
Diameters of the atoms of the inert gases. J. E. Calthrop. Philos Mag 6th ser 48:79-81 Jl '24
Das dielektrikum im lichte der neuen atomvorstellung. G: Jacoby. diags Elektrotech Zeit 45:977-81 S 11 '24
Discovery and properties of hafnium. G. Hevesy. Chem R 2:2-41 [bibliog. p. 39-41] Ap '25
Distribution of electrons among atomic levels. E. C. Stoner. Philos Mag 6th ser 48:719-36 O '24
Electric structure of matter. E. Rutherford. Am Inst E E J 43:513 Je '24
Electrical conductivity and certain other properties of metals and alloys on the basis of Bohr's theory. K. Höjendahl. diags Philos Mag 6th ser 48:349-60 Ag '24
Electrons, atoms and atomic architecture; some recent work considered and criticised. G. W. de Tunzelman. Electrician 92:97-9 Ja 25 '24
Experimental determination of relative transition probabilities in the sodium atom. G: R. Harrison. Phys R 25:768-82 Je '25
Experiments on the artificial disintegration of atoms. G. Kirsch and H. Pettersson. diags Philos Mag 6th ser 47:500-12 Mr '24
Exploding the atom. Engineer 138:412-13 O 10 '24
Extension of Bohr's correspondence principle to apply to small quantum numbers. P. W. Ketchum. Phys R 24:463-5 N '24
Fluoro-acetyl derivatives of sugars; optical rotation and atomic dimension. D. H. Brauns. Am Chem Soc J 46:1484-8 Je '24
Impact effects in nitrogen and nitric oxide. C. B. Bazzoni and A. T. Waldie. bibliog J Fr Inst 197:57-72 Ja '24

ATOMS—*Continued*
Induced alternate polarities in a carbon chain on the basis of Bohr's theory. K. Højendahl. diags Chem Soc J 125:1381-8 Je '24
Influence on chemistry of the recent knowledge gained of atomic structures. J. A. Cranston. Soc Chem Ind J (Chem & Ind) 43:356-7 Ap 4 '24
L-absorption spectra of the elements from Sn (50) to W (74) and their relation to the atomic constitution. Y. Nishina. Philos Mag 6th ser 49:521-37, pl 8 Mr '25
Magnetic properties of atoms. P. Langevin. Elec W 82:1028 N 17 '23
Magnetic properties of atoms and molecules. B. H. Wilsdon. Philos Mag 6th ser 49:1145-64 Je '25
Marvelous speeds of atomic particles. il Sci Am 132:301 My '25
Method for the estimation of the average life of excited mercury atoms. L: A. Turner. Phys R 23:464-71 Ap '24
Natural and artificial disintegration of the elements. E. Rutherford. J Fr Inst 198:725-44 D '24
Nature of matter. H. B. Lemon. Soc Auto Eng J 13:466-70; Discussion. 470-2 D '23
New theories of matter and the atom. A. Berthoud. 259p Macmillan '24
Nucleus of the atom. E. Rutherford. diags Engineering 117:458-9 Ap 11 '24
Optical rotation and atomic dimension. D. H. Brauns. Am Chem Soc J 47:1280-98 My '25
Optical screening-constant regularities. A. C. Menzies. Philos Mag 6th ser 50:414-22 Ag '25
Periodic law of atomic radii. W. P. Davey. Phys R 23:318-21 Mr '24
Physical interpretation of Bohr's stationary states. G. P. Thomson. Philos Mag 6th ser 50:163-4 Jl '25
Physically degenerate systems and quantum dynamics. J. C. Slater. Phys R 26:419-30 O '25
Possible reconciliation of Bohr's interpenetration ideas with Sommerfeld's relativistic treatment of electron orbits. R. A. Millikan and I. S. Bowen. Philos Mag 6th ser 49:923-35 My '25
Proposed model for the alpha particle and some nuclear series. R. Hargreaves. Philos Mag 6th ser 50:470-91 Ag '25
Proposed test of the space quantization of atoms in a magnetic field. A. E: Ruark and G. Breit. Philos Mag 6th ser 49:504-8 F '25
Putting the atom to work. O. Lodge. il Sci Am 130:306-7+ My '24
Radiating atoms in magnetic fields. P. Zeeman. il J Fr Inst 199:585-96 My '25
Radiation. W. P. Davey. J Fr Inst 197: 439-78, 629-66 [bibliog. p. 665-6] Ap-My '24
Relation between the refractivities and the sizes of the atoms of certain elements. J. E. Calthrop. Philos Mag 6th ser 47:772-9 Ap '24
Series spectra of the stripped atoms of phosphorus (Pv), sulphur (Svi), and chlorine (Clvii). I. S. Bowen and R. A. Millikan. il Phys R 25:295-305 Mr '25
Series spectra of three-valence-electron atoms of phosphorus (Piii), sulphur (Siv), and chlorine (Clv). R. A. Millikan and I. S. Bowen. Phys R 25:600-5 My '25
Series spectra of two-valence-electron atoms of boron (Bii) and carbon (Ciii). I. S. Bowen and R. A. Millikan. Phys R 26:310-18 S '25
Series spectra of two-valence-electron atoms of phosphorus (Piv), sulphur (Sv), and chlorine (Clvi). I. S. Bowen and R. A. Millikan. Phys R 25:591-9 My '25
Solar systems inside the atom. il Sci Am 132: 80-1 F '25
Some conspicuous successes of the Bohr atom and a serious difficulty. R. A. Millikan and I. S. Bowen. Phys R 24:223-8 S '24
Spectroscopy and Bohr's theory of atomic structure. P. D. Foote. J Fr Inst 198:344-63, 517-40 S-O '24
Spectroscopy and its relation to chemistry. H. Dingle. Soc Chem Ind J (Chem & Ind) 44:602-3, 621-7, 651-3, 674-5 Je 12-Jl 3 '25
Stability of the atom. D. N. Mallik. Philos Mag 6th ser 48:884-95 N '24
Static or dynamic atom? W. R. Campbell. Sci Am 130:233 Ap '24
Statistical equilibrium in relation to the photo-electric effect, and its application to the determination of absorption coefficients. E. A. Milne. Philos Mag 6th ser 47:209-41 Ja '24
Structure of atoms; eighth lecture. J. D. M. Smith. Chem Age (Lond) 12:109-10 Ja 31 '25
Structure of atoms; ninth lecture. J. D. M. Smith. Soc Chem Ind J (Chem & Ind) 44: 229 F 27 '25; Chem Age (Lond) 12:134 F 7 '25
Structure of the atom. E. N. da C. Andrade. 314p Harcourt '23
Structure of the atom. W. F. G. Swann. diags J Fr Inst 197:293-321 Mr '24; Excerpt. Brass W 21:287-8 Ag '25
Studies of atomic nuclei; abstracts. E. Rutherford. il diag Electrician 94:482+ Ap 24 '25; Engineer 139:380 Ap 3 '25; Engineering 119: 437-8 Ap 10 '25
Les théories modernes relatives à la constitution de la matière. H. Abraham. Soc Ing Civils Bul 78:356-439 My '25
Theory of co-ordination and the Lewis-Langmuir structure of the atom. C. J. Brockman. Soc Chem Ind J (Chem & Ind) 43: 756-9 Jl 25 '24
Theory of the relation of spectral lines to mass variations within the atom. L. B. Ham. Phys R 25:762-7 Je '25
Universal distance of the order of 10^{-8} cm. between the centres of nearest atoms. A. C. Crehore. diags Philos Mag 6th ser 49: 839-88 My '25
Valence and the structure of atoms and molecules. G. N. Lewis. 172p Chemical catalog co. '23
Within the atom. J: Mills. 215p Van Nostrand '23
X-rays and atoms. O. Lodge. Engineering 116:597-8 N 9 '23

See also Atomic theory; Atomic weights; Electrons; Molecules; Radiation; Spectrum; Stereochemistry; Valence

Bibliography

Atoms, space lattice, solid solutions, etc. O. E. Harder. Gen Elec R 27:457-8 Jl '24

Metastable states

Post-arc conductivity and metastable helium. C. Eckart. diags Phys R 26:454-64 O '25

Models

Advanced potentials and their application to atomic models. L. Page. Phys R 24:296-305 S '24

Calculations of the potential energy for some atomic models. I. Woodward. Philos Mag 6th ser 47:992-1016 My '24

ATROLACTINIC acid
Synthesis of glycols from atrolactinic acid. R. Roger. Chem Soc J 127:518-23 Mr '25

ATTERBURY, William Wallace, 1865-
Atterbury elected P.R.R. president. por Ry Age 79:625-7 O 3 '25

General Atterbury's war service: abstracts. C: Day. Ry Age 79:657-8 O 10 '25; Ry R 77: 590-2 O 17 '25

Honorary membership conferred at the Altoona meeting of the A.S.M.E. Mech Eng 47:951-3 N '25

Sketch. G: B. Fife. Am Ind 25:10 D '24

ATTLEBORO, Massachusetts

Rapid transit

Modernizing the transportation system of the Attleboros. J: A. Miller, jr. Elec Ry J 66: 321-4 Ag 29 '25

AUBURNDALE, Florida

Water supply

Well water system of Auburndale, Fla. H. C. Hewitt. il Pub Works 55:119-21 Ap '24

AUCKLAND, New Zealand

Rapid transit

Auckland will make extensive improvements. il Elec Ry J 63:496 Mr 29 '24

AUCTIONS

Auctions where they bid on the invisible. Am Bankers Assn J 18:31-2 Jl '25

Modern methods applied to auction selling. J. True. il Ptr Ink M 9:48+ Ag '24

AUDIOMETER

Low-Hilger audiometer. il diags Engineering 117:108-9 Ja 25 '24

Noise in London cars photographed by audiometer. il Elec Ry J 63:506 Mr 29 '24

AUDIT bureau of circulations

Annual convention, Chicago. Ptr Ink 129:25-6+ O 23 '24

Audit bureau calls for new campaign against waste. Ptr Ink 133:25-6+ O 22 '25

AUDITING

Auditing. W: H. Bell. 518p Prentice-Hall '24

Auditing, an introduction to practice. G: E: Bennett. 377p Macmillan '25

Auditing and accounting handbook. F. W. Kilduff. 813p McGraw-Hill '24

Auditing; making an audit. D. A. Hilsee. 53p La Fayette institute, inc., Phila. '24

Auditor's working guide. L. T. Konopak. 86p Skadden pub. co., Toledo '24

Audits of accounts of fire-insurance companies. F. Herbert. J Account 40:81-99 Ag '25

Bank auditing and the auditing department. G. G. Munn. Bankers M 108:603-5+ Ap '24

Capital requirements and control. J. H. Bliss. Management & Adm 6:705-8 D '23

Check list method of auditing and bookkeeping. F. W. Richardson. 4th ed. 100p F. W. Richardson, New York '24

First national conference of bank auditors, Chicago, Oct. 2. Comm & Fin Chr 119:130-1 sec 2 O 18 '24

Illustrative audit. E. L: Kohler and P. W. Pettengill. loose leaf. Shaw '24

Practical accounting for service and bulk stations. Nat Pet N 16:68-9+ F 13 '24

Principles of auditing. E. L. Kohler and P. W. Pettengill. 231p Shaw '24

Recognition of the status of the auditor in the general scheme of a bank's organization. F. Coates, jr. Comm & Fin Chr 119:132-3 sec 2 O 18 '24

Stock-brokerage audit for surety bond purposes. J. S. Seidman. J Account 37:202-8 Mr '24

See also Accounting

Study and teaching

American institute of accountants examination in auditing, November 15, 1923. J Account 37:224-9 Mr '24

American institute of accountants' examination in auditing, May 15, 1924. J Account 38:299-314 O '24

American institute of accountants' examination in auditing, November 13, 1924. J Account 39:336-48 Ap '25

American institute of accountants examination in auditing, May 14, 1925. J Account 40:220-6 S '25

AUDITION. See Hearing

AUDITORIUMS

Acoustics in auditorium design. P. E. Sabine. il diag Am Arch 125:579-86 Je 18 '24

Acoustics of auditoriums. F. R. Watson. J Fr Inst 198:73-83 Jl '24; Same. Arch & Bldg 57:59-62 Jl '25

Competition for auditorium for city of Dallas, Texas. R. Bryan. il plans Am Arch 126:231-9 S 10 '24

Maryland war memorial, Baltimore. J: H. Scarff. il plans Arch Forum 43:65-8, pl 17-19 Ag '25

Structural steel framing of the Mecca temple, New York. il diags plan Am Arch 127:173-80 F 25 '25

See also Acoustics, Architectural; Balconies; Theaters

Heating and ventilation

See also Theaters—Heating and ventilation

AUGER bits

Manufacturing auger and machine bits. C: O. Herb. il diags Mach 30:271-6 D '23

AUGER machines

Guides in the purchase of auger machines. R. H. McElroy. il Brick & Clay Rec 65: 548+ O 14 '24

AUGUSTA, Georgia

Augusta; the city with a golden future. T: J. Hamilton. il Manuf Rec 87:59-66 Ja 29 '25

AURAMINE

Hydrolysis of auramine. W. C. Holmes and J. F. Darling. Am Chem Soc J 46:2343-8 O '24

AURIN

Condensation of carbon tetrachloride and phenol:aurin. M. Gomberg and H. R. Snow. Am Chem Soc J 47:198-211 Ja '25

Dyes of the aurine type. H. Baines and J: E. Driver. Chem Soc J 125:907-8 Ap '24

Substitution derivatives of aurin. C. H. Spiers. Chem Soc J 125:450-9 F '24

AURORA, Illinois

Engineering in the small city. Eng N 95:133-5 Jl 23 '25

AURORAS

Auroral green line. J Fr Inst 199:843 Je '25

Auroral spectrum and upper atmosphere. Sci Am 131:307 N '24

Spectrum of the aurora borealis and the higher regions of the atmosphere. L. Vegard. J Fr Inst 199:557-8 Ap '25

AUSTIN, Texas

Texas' capital city. O. C. McQuage. il Comm & Fin 14:1633+ Ag 26 '25

AUSTRALASIA

See also Mines and mineral resources—Australasia

Economic conditions

Australasian land companies. Economist 98: 133-4 Ja 26 '24

AUSTRALIA

Inter-relationships between Canada and Australia within the British Empire. D. Mackinnon. Econ W n s 27:906-7 Je 28 '24

See also Bonds, Government—Australia; Cotton—Australia; Electric plants (central stations)—Australia; Electricity supply—Australia; Factory laws—Australia; Grocery trade—Australia; Irrigation—Australia; Labor laws and legislation—Australia; Money—Australia; Radio broadcasting—Australia; Railroads—Australia; Shoe industry and trade—Australia; Street railroads—Australia

Commerce

Australia—imports and exports, 1921-1923. Economist 98:741-2 Ap 5 '24

Australian trade and her oil resources. Engineering 117:150 F 1 '24

Australia's growing economic importance. Index p 13-14 O '25

Australia's organization for export. Comm M 7:13-15 Jl '25

Foreign commerce of Australia for the nine months ended March 31, 1925. Econ W n s 30:122 Jl 25 '25

See also Electric industries—Australia

Economic conditions

Address. W. M. Hughes. Am Ind 24:40-4 Je '24

Australia understood. D. Mackinnon. il Comm & Fin 13:1315 Jl 9 '24

Depression in Australian mining due to commonwealth's fiscal policy. H. R. Sleeman. Eng & Min J 120:537-8 O 3 '25

Economic situation in Australia, 1918-23. D. B. Copland. Econ J 34:32-51 Mr '24

English, Scottish and Australian bank, limited; economic and trade conditions in Australia. Economist 99:828-31 N 22 '24

AUSTRALIA—Economic conditions—*Continued*
Growth of the private wealth of Australia from 1915 to 1921. Econ W n s 28:770-1 N 29 '24

Industries and resources

Australia—her resources, industries and trade. S. Bell. il Comm & Fin 13:1319+ Jl 9 '24
Australia—the land of opportunities. Bankers M 110:1011+ Je '25
Australian section at the British Empire exhibition. il diag plan Engineer 137:680-2 Je 20 '24; Engineering 117:723-6, 736 Je 6 '24
Mechanical engineering in the colonies; presidential address before the Institution of mechanical engineers; abstracts. V. L. Raven. Engineering 120:556-7 O 30 '25; Engineer 140:466-7 O 30 '25; Electrician 95:501 O 30 '25

See also Cotton—Australia; Gold mines and mining—Australia; Mines and mineral resources—Australia; Petroleum—Australia; Wool trade—Australia

Navy

Australian naval defence. Engineer 139:383-4 Ap 3 '25

Population

Australia's new plan for the promotion of immigration. E. A. Chapman. Econ W n s 29: 616-20 My 2 '25

AUSTRALIAN chemical institute
Activities of the Australian chemical institute. Chem Age 32:505-6 D '24
Australian chemical institute. Chem Age 31: 537-8; 32:175-6 D '23, Ap '24

AUSTRALOPITHECUS. See Apes, Fossil

AUSTRIA
Austria and Germany. Economist 101:484-6 S 26 '25
Austrian politics and economics. Am Ind 25:34-5 Mr '25
Conclusions of committee of League of nations respecting administrative reforms of Austria. Comm & Fin Chr 120:893-4 F 21 '25

See also Banks and banking—Austria; Electric industries—Austria; Hydroelectric plants—Austria; Insurance—Austria; Labor and laboring classes—Austria; Lumber trade—Austria; Railroads—Electrification—Austria; Railroads—Austria; Railroads and state—Austria; Steel works—Austria; Tariff—Austria

Commerce

Foreign commerce of Austria in 1923. Econ W n s 27:520 Ap 12 '24
Selling in southeastern Europe; U.S. trade with Austria and her neighbors. F: Simpich. Nation's Business 12:34-5 Mr '24

Economic conditions

Austria gains—but tariff walls check progress. C. H. Layton and C: Rist. Annalist 26:477-8 O 16 '25
Austrian situation. Economist 101:405-7 S 12 '25
Can Austria regain its trade? S: Crowther. il map System 46:35-9+ Jl '24
Conditions in Austria. Elec R (Lond) 95:343-4 Ag 29 '24
Economic outlook in Austria. E. Lengyel. Bankers M 110:283+ F '25
Financial crisis in Austria. Economist 99: 137-8 Jl 26 '24
Hard times in Austria: and the German cure. E. Lengyel. Annalist 26:341 S 18 '25
Rejuvenation of Austria; its significance to American business men. R. D. Kilborne. Harvard Business R 2:334-44 Ap '24
Rise and fall of the Austrian plunger Castiglioni. G. Stolper. Econ W n s 28:796-9 D 6 '24

See also Banks and banking—Austria; Finance—Austria; Labor and laboring classes—Austria; Wages—Austria

AUTHORSHIP
How do you write? J. H. Collins. Ptr Ink M 8:43-4+ Ja '24
Why it can't be published. L. V. Collins and S. P. Moore. Nation's Health 6:393-4 Je '24

See also Copyright

AUTOCLAVES
New laboratory autoclave. E. E. Wolfe. diags Eng & Contr (W W) 62:1297 D 10 '24; Same. Am Water Works Assn J 14:357-8 O '25

AUTODROMES
L'autodrome de Miramas (bouches-du-Rhone). A. Cochet. il diags plans Génie Civil 85:29-34 Jl 12 '24
La construction de la piste routière de l'autodrome de Linas-Montlhéry. P. Grezaud. il diags plan Génie Civil 87:261-6 S 26 '25
Les Grands prix de tourisme et de vitesse de L'automobile-club de France, en 1925. il plan Génie Civil 87:131-4 Ag 8 '25

AUTOMATIC machinery. See Machinery, Automatic

AUTOMATIC stop. See Railroads—Automatic stop

AUTOMATIC substations. See Electric substations, Automatic

AUTOMATIC telephone. See Telephone, Automatic

AUTOMOBILE accessories
Should automobile manufacturers make or purchase their accessories? J. H. Marks; F. C. Shafer. Taylor Soc Bul 10:199-202 Ag '25

Manufacture

Four ways to save time and money in the paint shop. F. J. Plym. il Factory 35:112+ Jl '25

AUTOMOBILE accessories industry
Accessory makers can reach export market at low cost. P. A. Karl. Automotive Ind 50: 554-5 Mr 6 '24
Annual meeting of the Motor and accessory manufacturers association, Montreal, Oct. 7-10. Automotive Ind 53:665-73 O 15 '25
Better methods are needed to put pep in accessory export sales. P. F. Baillet. Automotive Ind 51:886 N 20 '24
How 112 jobbers cut down on returned goods evil. G. A. Nichols. Ptr Ink 131:97+ Ap 30 '25
How Stewart-Warner found 25,000 new sales outlets. Sales Management 9:573+ O 31 '25
Immense trade in motor car accessories. M. Thorne. il Am Exporter 94:13-18+ Ap '24
Making secondary distribution more economical. A. R. Mogge. Ptr Ink 131:117-21 Ap 9 '25
Sales arguments that help get Christmas trade. F. L. Scott. Ptr Ink 128:3-4+ Ag 7 '24
Survey of merchandising trends in the automotive field. R. W. Johnson. il Sales Management 9:79-80+ Jl 25 '25
Wealth of new parts and accessories shown in attractive setting. D. G. O'Connor. il diags Automotive Ind 52:68-71 Ja 8 '25

See also Automobiles—Equipment; Gates rubber company, Denver

Advertising

How new Bosch products are being put on the map. Ptr Ink 126:41-2 F 21 '24
Taking a product off an emergency purchase basis. E. B. Weiss. Ptr Ink 127:149-50 Je 26 '24

Exhibitions

Automotive accessories form a lucrative merchandising field. L. O. Welcome. il Dun's Int R 45:42-6 Ag '25

Europe

How the U.S. equipment man can sell more goods in Europe. P. A. Karl. il Automotive Ind 53:130-2 Jl 23 '25

AUTOMOBILE accidents
Advertising sells safety to a big city. D. Hubbard. Ptr Ink 128:141-2+ S 11 '24

AUTOMOBILE accidents—*Continued*
Analysis of accident statistics involving a car and an automobile. L. S. Storrs. Elec Ry J 63:629 Ap 19 '24
Analysis of 1923 automobile fatalities. H. P. Stellwagen. Nat Safety N 9:28 Je '24
Analysis of 16,500 road accidents in Connecticut. Eng N 92:807 My 8 '24
Analysis of state automobile fatality records. Nat Safety N 11:25-8 F '25
Auto accidents take 15,000 lives in 1923. Nat Safety N 9:10 F '24
Automobile accident deaths increase. Eng N 91:973 D 13 '23
Automobile accident record of the United States in 1924. Econ W n s 29:673 My 9 '25
Automobile accidents to children. A. C. Carruthers. il Safety Eng 49:189-93 My '25
Automobile death toll in the U.S. registration area. Eng N 93:743 N 6 '24
Automobile fatalities from January 1 to June 20, 1925. Spectator 115:3 Jl 2 '25
Automobile fatalities in 1923 among insured wage-earners in American states and Canadian provinces. Econ W n s 28:241-2 Ag 16 '24
Automobile fatalities in the United States in 1923. Econ W n s 27:710-11 My 17 '24
Automobile hazards. C: B. Hardin; H. K. Bennett. Elec Ry J 64:695-6 O 18 '24
Automobile leads in accidental deaths. Mrs P. J. White. Safety Eng 48:139-44 O '24
Automobile strikes end post of bridge. F. F. Healey. il Eng N 94:1023 Je 18 '25
Automobiles cause most of U.S. highway accidents. L. I. Dublin. Nation's Health 6:821-2 D 15 '24
Automotive industry should stimulate safety campaigns. C. W. Price. Automotive Ind 50:17-19 Ja 3 '24
Auto's toll of lives. H. W. Slauson. il Sci Am 132:152-4 Mr '25
Cause and prevention of accidents. G: M. Graham. Soc Auto Eng J 16:12-13 Ja '25
Chart shows factors in traffic death rate. Nat Safety N 9:43 Mr '24
Community safety councils and automobile accidents. diag Nat Safety N 10:25-6 S '24
Continued growth of motor accidents a threat to industry. R. L. Cusick. Automotive Ind 52:730-3 Ap 23 '25
Curbing accidents by making reckless drivers financially responsible. H. L. Towle. Automotive Ind 53:213 Ag 6 '25
Education of pedestrians needed to lower traffic hazards. A. B. C. Hardy. Automotive Ind 50:705 Mr 27 '24
860 fatal motor disasters in first quarter of 1924. Bus Transportation 3:284 Je '24
Fatal accidents in 1923. Spectator 114:34 Ja 1 '25
Financial interest in safety makes careful drivers. F. McDaniel. il Nat Safety N 10:28 N '24
Financial responsibility for automobile accidents. Safety Eng 49:83-5 F '25
Full story of the death toll from automobile accidents. Econ W n s 27:494-5 Ap 5 '24
Getting safety across to the commercial driver. il Nat Safety N 12:53-62+ O '25
Grand jurors' association takes action toward reducing automobile accidents. Safety Eng 46:295-6 D '23
Hazards and safeguards of highway structure; report of National conference on street and highway safety. Eng N 94:15-20 Ja 1 '25; Abstract. Génie Civil 86:441-2 My 2 '25
Highway traffic accidents. N. M. Isabella. Eng & Contr (R & S) 61:291-5 F 6 '24; Same. Good Roads 66:79-81 Mr '24; Same. Munic Eng 67:133-7 Mr '24; Same cond. Can Eng 47:193-4 Jl 29 '24; Same cond. Nat Safety N 9:29-30 Mr '24; Abstract. Eng N 92:115-16 Ja 17 '24
Highway traffic problems in American cities and their solution. M. McClintock. Safety Eng 48:73-6 Ag '24
How can automobile accidents be controlled? L. I. Dublin. Spectator 112:33-5 Mr 27 '24; Same, without forms. Econ W n s 27:417-19 Mr 22 '24; Abstract. Nat Safety N 9:9 Ap '24
How the automotive engineer has contributed to greater safety. C. F. Kettering. Automotive Ind 52:1127-8 Je 25 '25
How traffic accidents are reported in New York state. I. Sack. Nat Safety N 11:26 Ap '25
Increasing death rate from motor vehicle accidents in the United States. Econ W n s 30:27 Jl 4 '25
Lack of human intelligence is cause of most traffic accidents. S. Shelton. Automotive Ind 51:646-7 O 9 '24
Local council cities reduce automobile deaths in 1924. Nat Safety N 11:17 F '25
May motoring raises death rate for 84 cities. Nat Safety N 12:43 Jl '25
"Move over, brother;" the community safety movement as it is being worked out in New England communities. L: E. MacBrayne. Elec Ry J 63:897-8 Je 7 '24
National safety council meeting, Louisville, Ky. Spectator 113:4+ O 9 '24
New York reduces traffic fatalities in 1924. Nat Safety N 11:16 F '25
On the motor-gypsy trail. C. T. Fish. diags Nat Safety N 12:5-7 Jl '25
Pedestrian, as well as driver, needs traffic education; New Haven conference develops constructive ideas on elimination of highway accidents N. G. Shidle. Automotive Ind 50: 856-8 Ap 17 '24
Pedestrians are responsible for many motor vehicle accidents. R. B. Stoeckel. Automotive Ind 51:108-9 Jl 10 '24
Police and courts must work together for public safety. M. A. Collins. il Nat Safety N 11:35-6 Mr '25
Prevention of automobile accidents. J. J. Sharkey. Elec Ry J 63:144-5 Ja 26 '24
Proceedings of a conference on motor vehicle traffic. R: S. Kirby, ed. 179p Yale univ. press, New Haven '24
Protecting highway bridges from colliding vehicles. E. F. Kelley. il Eng N 91:892-3 N 29 '23
Put microscope on Kansas City's safety problems. maps Nat Safety N 10:25-6 O '24
Read about yourself, Mr Motorist. F. L. Grahlfs. Safety Eng 50:157-9 S '25
Recommends certifications of auto titles and coordination of accident prevention work. Spectator 113:3-4+ D 4 '24
Safeguarding traffic. G: M. Graham. Ann Am Acad 116:174-85 N '24; Same cond. Safety Eng 48:229-34 D '24; Excerpts. Spectator 113:31-3 O 9 '24
Safety in the streets. B. Collier. Aera 13:599-602 N '24
Saving the motorist from himself. H. W. Slauson. il Sci Am 133:76-9 Ag '25
Seventy-four cities report February accidents. Nat Safety N 11:25 Ap '25
Sixty-eight cities report January accident experience. Nat Safety N 11:24 Mr '25
Statistics relating to public accidents. Safety Eng 46:223-8 N '23
Stern action is urged to banish death from highways. G: M. Graham. Automotive Ind 50:495-8+ F 28 '24; Same cond. Good Roads 66:133-5 My '24; Same cond. Eng & Contr (R & S) 61:1220-3 Je 4 '24
Street and highway safety; summary of eight reports, National conference on street and highway safety. Eng & Contr (R & S) 63: 39-48 Ja 7 '25
Street railway and automobile accidents. L. S. Storrs. Nat Safety N 10:33-4 S '24
Study of highway accidents in Pennsylvania. W. A. Van Duzer. Munic Eng 66:6-7 Ja '24
Study of motor-vehicle accidents in Montana, Oregon, and Washington. A. C. Rose. Pub Roads 5:9-15 F '25; Abstract. Pub Works 56:93-4 Mr '25
Three worst motor offenses. Safety Eng 49: 73 F '25
Traffic accidents being controlled. S: Shelton. Automotive Ind 53:630-1 O 8 '25
Traffic accidents can be made impossible. N. G. Shidle. Automotive Ind 51:913-14 N 27 '24
Traffic accidents in 19 American cities. Eng & Contr (R & S) 61:759 Ap 2 '24

AUTOMOBILE accidents—*Continued*
Urgent problem of street and highway traffic accidents in the United States. H. Hoover. Econ W n s 28:885-6 D 20 '24; Same. Good Roads 68:58-9 F '25
Vigilance committee and the police department. F. H. Matson. Nat Safety N 11:27-8 Ap '25
What is an automobile accident? J. R. Clair. il Nat Safety N 12:27 Jl '25
When, where, why? how Connecticut gathers the data of her automobile accidents, and the use she makes thereof. map Sci Am 130:312+ My '24
Who runs the greater risk—the man in the automobile or the pedestrian? Econ W n s 28:816-18 D 6 '24; Abstract. Soc Auto Eng J 16:52 Ja '25
Work of the automotive engineer in the promotion of highway safety. Soc Auto Eng J 17:11-13 Jl '25

See also Automobile driving; Grade crossing accidents; Safety movement; Traffic regulations; *also* National conference on street and highway safety

AUTOMOBILE air cleaners. See Air cleaners, Automobile

AUTOMOBILE body builders' association
Annual meeting, 5th, Detroit, June 2-3. Automotive Ind 52:995+, 1007-11 Je 4-11 '25

AUTOMOBILE brakes. See Air brakes, Automobile; Brakes, Automobile

AUTOMOBILE camps. See Camps, Tourist

AUTOMOBILE chamber of commerce, National. See National automobile chamber of commerce

AUTOMOBILE cleaning stations
Making waste space pay. R. A. M. Anderson. il plan Pet Age 16:30+ N 1 '25
Oil companies show interest in auto laundry business. Nat Pet N 17:92+ My 13 '25

AUTOMOBILE departments
Why we have a central automobile department. A. B. Tilt. System 46:312+ S '24

AUTOMOBILE driving
Automobile club and community safety work. L. J. Van Schoick. Nat Safety N 10:43 D '24
Encouraging safe driving. Safety Eng 48:260-1 D '24
Experts report on accident prevention study. E. Greenwood. Bus Transportation 3:569-71 D '24
Favor mental tests for motor drivers. Automotive Ind 53:198 Jl 30 '25
How Delaware examines motor vehicle drivers. H. E. Hollensbe. il Nat Safety N 9:19-20 F '24
Manners in motoring. R. B. Stoeckel. il Nat Safety N 11:17-18 Je '25
Methods of testing chauffeurs. H. S. McCauley. il Sci Am 132:28 Ja '25
Minneapolis judge organizes reckless drivers' school. Nat Safety N 9:21 F '24
New plan for traffic laws; it is stops, not speeds, that matter. H. W. Slauson. il Sci Am 132:296-8 My '25
Personal equation in automobile driving. F. A. Moss and H. H. Allen. il Soc Auto Eng J 16:415-20 Ap '25; Discussion. 16:269-71 Mr '25
Richmond's campaign for safer cars and safer drivers. il Nat Safety N 11:34 Mr '25
Safe drivers' school and community safety. W. W. Cloud. il Nat Safety N 9:17-18 Ja '24
Safety for twenty million automobile drivers. 236p Safety first league, New York '24
Saving the motorist from himself. H. W. Slauson. il Sci Am 133:76-9 Ag '25
Science scrutinizes the reckless driver. J. J. Burns. Nat Safety N 9:15-16 Ap '24
What is safe speed? H. C. Dickinson and C. F. Marvin, jr. diags Soc Auto Eng J 17:81-6 Jl '25
What the automobile tourist should know about safety. H. M. Brown. il Nat Safety N 9:26-8 Je '24
What, when and where for the motorist. F. Wenzel. 135p F. Wenzel, 78 North Allen st., Albany, N.Y. '23

See also Automobile touring; Grade crossing accidents

AUTOMOBILE engineering
Automobile engineer. H. K. Thomas. Automobile Eng 15:336-9 O '25; Same cond. Engineer 140:372-3 O 9 '25
Engineers can help to simplify service problems. Automotive Ind 50:1188-9 My 29 '24
What automobile engineers can get from field contacts. Automotive Ind 51:163-4 Jl 17 '24

See also Automobile engines; Automobile mechanics; Automobile research; Automobiles

Study and teaching
Examination questions for Dyke's home study course of automobile engineering. A. L. Dyke. 116p A. L. Dyke, St. Louis, Mo. '23

AUTOMOBILE engines
Armstrong-Siddeley "30" engine has detachable heads. M. W. Bourdon. il Automotive Ind 52:982-3 Je 4 '25
Bagnulo engine and gasifier: abstract. diag Mech Eng 46:96 F '24
Balancing four-cylinder engines by bob weight on connecting rod cap. diag Automotive Ind 51:1057-8 D 18 '24
Changes made in engine and chassis of Oldsmobile six. W. L. Carver. il Automotive Ind 52:734-6 Ap 23 '25
Chrysler "6" engine enlarged to take care of increased weight. il Automotive Ind 53:126-7 Jl 23 '25
Daimler engines have steel valve sleeves. M. W. Bourdon. il Automotive Ind 53:214-15 Ag 6 '25
Detailed consideration of the more interesting exhibits at Olympia. il Automobile Eng 13: 355-62 N 22 '23
Detailed consideration of the more interesting exhibits at Olympia; engines. il Automobile Eng 14:315-32 N 5 '24
Diana "8" engine develops 72 hp.; speed 77 m.p.h. B. M. Ikert. il diags Automotive Ind 52:11-12 Jl 2 '25
Distinct progress shown in engine design. A. L. Clayden. il diag Automotive Ind 50:61-4 Ja 10 '24
18 h.p. Phoenix chassis: an interesting layout embodying an overhead-valve engine. il diags Automobile Eng 13:386-92 D '23
Engine as a brake. Sci Am 130:178 Mr '24
Engine division report. Soc Auto Eng J 14: 40-2 Ja '24
Engine of the Godet-Varielle diminutive six; abstract. Mech Eng 46:489 Ag '24
Engines of 30 to 80 cu. in. predominate at the Berlin automobile show. B. R. Dierfeld. il diags Automotive Ind 52:100-4 Ja 15 '25
Excelsior offers new eight-in-line overhead valve engine. il diags Automotive Ind 50: 715-17 Mr 27 '24
Falls eight-in-line has crankcase and cylinders cast integral. il diag Automotive Ind 50:1182-3 My 29 '24
Foreign maker increases engine speed and decreases piston displacement; Godet & Vareille 45.4 cu. in. six. W. F. Bradley. il Automotive Ind 50:1225-6 Je 5 '24
Fortschritte im kraftwagenbau; die fahrzeugverbrennungsmaschine. A. Heller. il diags Zeit Ver Deutsch Ing 69:399-405 Mr 28 '25
German-built automobile, the Maybach, operates without shifting gears. B. R. Dierfeld. il diags Automotive Ind 51:810-15 N 6 '24
Guyot to try for victory at Indianapolis with sleeve valve motor. il diags Automotive Ind 52:773-5 Ap 30 '25
Hupmobile eight-in-line features heavy crank and light pistons and rods. il diags Automotive Ind 52:4-8 Ja 1 '25
Jewett has new engine, axles and bodies; Paige is changed but little. il diag Automotive Ind 52:20-1 Ja 1 '25
Lincoln sleeve-valve engine. diag Mech Eng 47:45 Ja '25

AUTOMOBILE engines—*Continued*

Locomobile Junior eight model now in production. P. M. Heldt. il diags Automotive Ind 52:690-3 Ap 16 '25

Lycoming 8-in-line engine is latest product. il diags Automotive Ind 50:1066-7 My 15 '24

Lycoming six cylinder engine latest addition. il diags Automotive Ind 52:662-4 Ap 9 '25

Maxwell practice illustrates a new method of engine mounting. P. M. Heldt. diags Automotive Ind 50:761-3 Ap 3 '24

Michell crankless engine. E. C. Moyle. diags Automobile Eng 15:41-3 F '25

Moteur d'automobiles, système Andreau. diags Génie Civil 86:144-5 F 7 '25

Motor exhibition at Olympia, 1923. il Engineering 116:584-9, 613-19, pl 33-6 N 9-16 '23; Engineer 136:496-500, 506, 528-9 N 9-16 '23

Motor exhibition at Olympia, 1924. il Engineer 138:434-6, 470-3 O 17-24 '24; Engineering 118:574-9, 584, 606-10, 614, pl 58-61 O 24-31 '24

Motor exhibition at Olympia, 1925. il Engineering 120:473-7, 482, 504-8 O 16-23 '25; Engineer 140:402-4 O 16 '25; Automobile Eng 15:357-73 O 29 '25

Nash adds smaller six and drops four cylinder models. D. Blanchard. il diags Automotive Ind 51:231-6 Jl 31 '24

Nash-built Ajax announced. W. L. Carver. il diags Automotive Ind 52:931-6 My 28 '25

Oldsmobile increases engine output, adopts chain front end drive. L. S. Gillette. il Automotive Ind 53:243-5 Ag 13 '25

Overland and Willys-Knight add six cylinder models. D. Blanchard. il diags Automotive Ind 52:14-19 Ja 1 '25

Packard single-eight. J. G. Vincent and W. R. Griswold. il diags Soc Auto Eng J 13:257-75, 485-9 O, D '23; Discussion. 13:489-92 D '23

Painting the cylinder head to increase the power. Sci Am 130:227 Ap '24

Recent Diesel-engine developments. P. L. Scott. il diags Soc Auto Eng J 17:339-46; Discussion. 346-9 O '25

Revere building both four and six cylinder models. B. M. Ikert. il diags Automotive Ind 52:111-13 Ja 15 '25

Rickenbacker vertical eight will supplement the six. J. E. Schipper. il diag Automotive Ind 50:1369-72 Je 26 '24

Rollin has small bore, long stroke engine as new feature. il diag Automotive Ind 49: 1137-9 D 6 '23

Rolls-Royce 40-50 h.p. chassis with overhead-valve engine. il Engineering 119:605 My 15 '25

Rolls-Royce new Phantom 40-50 hp. has overhead valves. M. W. Bourdon. il Automotive Ind 52:888-90 My 21 '25

Rover 14/45-h.p. motor car with overhead-valve engine. diags Engineering 120:410, 411-12, pl 26 O 2 '25

Rover 14-15 hp. uses oil cooled pistons and one overhead camshaft. M. W. Bourdon. il diags plan Automotive Ind 51:880-5 N 20 '24

Small high speed engine used in new German car. B. R. Dierfeld. diags Automotive Ind 50:726-30 Mr 27 '24

Smaller engine for Overlands in England. M. W. Bourdon. il Automotive Ind 52:469 Mr 5 '25

Stutz to build engine for new model in its own plant. J. E: Schipper. il diags Automotive Ind 49:1296-1300 D 27 '23

Supercharged cars take all honors in French Grand Prix. W. F. Bradley. il Automotive Ind 53:252-4 Ag 13 '25

Two-stroke engine rattle. G. Funck. diags Automobile Eng 14:235-6 Ag '24; Discussion. A. A. Rubbra. 15:15 Ja '25

Undue wear of engine parts is caused by rust. il Automotive Ind 50:956-8 My 1 '24

V-type four cylinder engine permits compact design. P. M. Heldt. Automotive Ind 50: 337-9 F 14 '24

See also Automobiles; Carbureters; Cylinders (engines); Gas and oil engines; Motor bus engines; Motor cycle engines; Motor truck engines; Piston rings; Tractors

Air supply

Relationship of air consumption to brake horse-power in internal combustion engines; road and flight tests. H. Moss. diags Engineering 117:507-9 Ap 18 '24; Abstracts. Automotive Ind 50:1131-2 My 22 '24; Engineer 137:416 Ap 18 '24; Discussion. Engineering 117:502-4, 585 Ap 18, My 2 '24; Engineer 137:416-17 Ap 18 '24

See also Air cleaners, Automobile

Bearings

Designs used and proposed for mounting connecting rod head roller bearings. diags Automotive Ind 51:964-5 D 4 '24

How and why ball bearings are used on car and truck crankshafts. P. M. Heldt. diags Automotive Ind 51:282-5 Ag 7 '24

New bearing fitting machine operates by hand or power. il Automotive Ind 52:454 Mr 5 '25

Oil flow in complete journal bearings; abstracts. D. P. Barnard. Automotive Ind 52:1136-7 Je 25 '25; Soc Auto Eng J 17:9-10 Jl '25

Olds uses novel production methods for interchangeable bearings. W. L. Carver. il Automotive Ind 52:978-81 Je 4 '25

Use of shims in engine bearings to facilitate repairs. A. L. Clayden. diags Automotive Ind 52:1068-9 Je 18 '25

Carbon deposits

Carbon removed by loading. il Soc Auto Eng J 15:499-500 D '24

Factors influencing carbon formation in automobile engines. J. W. Orelup and O. I. Lee. bibliog il diag Ind & Eng Chem 17: 731-5 Jl '25; Same cond. Pet Age 16:50-1+ Jl 15 '25

Cleaning

See Automobile cleaning stations; Automobiles—Cleaning; Boyce-ite

Cooling

Air-cooled engine research. C. P. Grimes. diags Soc Auto Eng J 14:344-5 Mr '24

Anti-freezing solutions. Soc Auto Eng J 15: 498-9 D '24

Cylinder and engine lubrication. A. L. Clayden. il Soc Auto Eng J 17:58-61 Jl '25; Abstract. Automotive Ind 52:1138-9 Je 25 '25; Discussion. Soc Auto Eng J 17:472-4 N '25

Engine-cooling systems and radiator operating characteristics. N. S. Diamant. diags Soc Auto Eng J 14:396-406 Ap '24; Abstract. Automotive Ind 40:238-9 Ja 31 '24; Discussion. Soc Auto Eng J 15:229-33 S '24

Franklin increases power 33 per cent by changes in air cooling system. P. M. Heldt. il diags Automotive Ind 51:101-3 Jl 10 '24

Fundamental demonstration of cooling by steam. H. L. Horning. diag Soc Auto Eng J 17:292-3 S '25

Future of the air-cooled car. V: W. Pagé. il Sci Am 130:22-3+ Ja '24

Honey as anti-freeze for automobile radiators. T. P. G. Shaw and G. L. Robertson. Can Chem & Met 8:63-4 Mr '24; Abstract. Chem & Met Eng 30:473 Mr 24 '24

Honey as non-freeze solution. R. B. Wilson and F. L. Fairbanks. Automotive Ind 50: 143-4 Ja 17 '24

Honey or oil—are they good for winter cooling? Bus Transportation 4:24 Ja '25

Honey-water as a non-freezing engine-cooler. Sci Am 130:113 F '24

How to determine the cooling capacity of fins on crankcase or engine. C. B. Dicksee. Automotive Ind 51:206-10 Jl 24 '24

Latest cooling system employs small gear pump with ⅝ in. discharge tube. H. Chase. Automotive Ind 51:770-1 O 30 '24

AUTOMOBILE engines—Cooling—*Continued*
New combination fan and water pump unit is developed. diag Automotive Ind 52: 1064 Je 18 '25
Principles of steam-cooling systems. N. S. Diamant. diags Soc Auto Eng J 16:330-4 Mr '25; Abstract Automotive Ind 52:304-5 F 19 '25; Discussion. Soc Auto Eng J 16:632-9 Je '25; Automotive Ind 52:590 Mr 26 '25
Rolls-Royce patents evaporative cooling system. diag Automotive Ind 51:147 Jl 17 '24
Rushmore steam cooling system provides hot water jacket for oilpan. il diag Automotive Ind 51:933 N 27 '24
Steam cooling. A. Herreshoff. il diag Soc Auto Eng J 17:327-30; Discussion. 330-3 O '25

See also Anti-freeze solutions; Automobile engines—Radiators

Design

Balancing of automobile engines. H. S. Rowell. diags Automobile Eng 14:119-23 Ap '24
Benz new 6-cylinder 40-hp. car. B. R. Dierfeld. il diags Automotive Ind 50:332-6 F 14 '24
Cam design. J. Park. diags Automobile Eng 15:110-13 Ap '25
Cleveland model has centralized chassis lubricating system. il diags Automotive Ind 50:1314-18 Je 19 '24
Cylinders and pistons. T. Rapson. diags Automobile Eng 15:248-51 Ag '25
Le XIX[e] salon de l'automobile et du cycle; véhicules de tourisme (Paris, 2-12 octobre 1924). G. Delanghe. il diags plans Génie Civil 85:360-71 O 25 '24
Duesenberg straight eight. il diags Automobile Eng 14:220-3, 252-61 Ag-S '24
Economy of fuel attained by means of constant compression engine; Burtnett engine. diag Automotive Ind 50:1278 Je 12 '24
Eight cylinder vertical engines; diagrams. Automotive Ind 51:39-45 Jl 3 '24
Engine balance. P. Cormac. diags Sci Am 133:33-4, 133-4 Jl-Ag '25
Engine balancing calculations. M. Platt. diags Automobile Eng 14:243-9, 275-81 Ag-S '24
Essentials of a successful constant-compression engine. C. E. Sargent. il diags Soc Auto Eng J 14:5-10 Ja '24; Discussion. 15: 170-4 Ag '24
Hansa-Lloyd German straight eight has aluminum engine. il diags Automotive Ind 50: 1111-15 My 22 '24
How characteristics of high speed engines are determined. Automotive Ind 52:1099-1101 Je 25 '25
How to determine the cooling capacity of fins on crankcase or engine. C. B. Dicksee. Automotive Ind 51:206-10 Jl 24 '24
Hupp brings out a six. il diags Automotive Ind 53:654-9 O 15 '25
Increase of eight-in-line engines chief power plant design trend. P. M. Heldt. il diags Automotive Ind 52:62-5 Ja 8 '25
Jordan eight, added to lines of sixes, now in production. D. Blanchard. il diags Automotive Ind 51:352-4 Ag 21 '24
Michell crankless engine. il diags Automobile Eng 15:316-20 O '25
New Studebaker models have pressure lubrication and more power. D. Blanchard. il diags Automotive Ind 51:512-18 S 18 '24
Peerless eight—straighter body lines and redesigned engine. D. Blanchard. il diags Automotive Ind 51:875-8 N 20 '24
Pierce-Arrow announces lighter six with L-head engine. D. Blanchard. il diags Automotive Ind 51:237-40, 370 Jl 31, Ag 21 '24
Practical balancing of engine components. A. A. Bull. diags Soc Auto Eng J 14:527-31 My '24
Practical methods of engine-balancing. L. L. Roberts. il Soc Auto Eng J 14:452-6 Ap '24
Production aspects of balancing; symposium. il Soc Auto Eng J 14:354-7 Mr '24
Service costs can be lowered by designer. A. W. Herrington. Automotive Ind 50:815 Ap 10 '24
Torque calculations. H. A. Golding. diags Automobile Eng 15:180-1 Je '25
Willys-Knight adds Lanchester balancer and increases engine torque. D. Blanchard. diags Automotive Ind 51:435-6 S 4 '24

See also Automobile engines—Valves

Detonation

Catalysis and the internal combustion engine. E: Sokal. Soc Chem Ind J 43:283-4 Ag 29 '24
Chemists seek answer to question, "what is detonation?" A. L. Clayden. Automotive Ind 52:696 Ap 16 '25
La combustion vive, détonante et non détonante, des milieux gazeaux. F. Schwers. Chimie & Ind 13:14-23 Ja '25
Control of detonation. G. A. Young and J. H. Holloway. Soc Auto Eng J 14:315-18 Mr '24; Discussion. 15:235-7 S '24
Detonation; the effect of compression on detonation and detonation control. H. L. Horning. Automobile Eng 14:142-4 My '24
Fuel-charge mixing and flame propagation. A. H. Denison. Soc Auto Eng J 17:273-7 S '25
Relative effects of some nitrogen compounds upon detonation in engines. T. A. Boyd. Ind & Eng Chem 16:893-5 S '24
Some experiments on gas explosions in closed tubes, with particular reference to pinking. J. D. Morgan. il Automobile Eng 15:27-31 Ja '25
Suggested mechanism for antiknock action. G. L. Wendt and F. V. Grimm. diag Ind & Eng Chem 16:890-3 S '24
Tetra-ethyl lead as an anti-detonator in high-compression engines. H. K. Thomas; W. R. Ormandy. Automobile Eng 14:308-11 O '24
L'utilisation des antidétonants dans les moteurs d'automobiles. P. Dumanois. Génie Civil 86:536-7 My 30 '25

Exhaust

Combustion in the gasoline engine; evidence for the existence of the water-gas equilibrium. C. C. Minter. il diag Ind & Eng Chem 17:687-90 Jl '25
Determination of gas distribution in internal-combustion engines by gas analysis. G. W. Jones, W. P. Yant and L. B. Berger. diags U S Bur Mines Rep of Invest 2631:1-6 Ag '24 (typew); Same. Automotive Ind 51: 682-4 O 16 '24
Exhaust-gas analysis. G. G. Brown; C. C. Minter. diag Soc Auto Eng J 16:612-17 Je '25
Exhaust gases from engines using ethyl gasoline. R. R. Sayers and others. U S Bur Mines Rep of Invest 2661:1-24 D '24 (typew); Excerpt. Econ W n s 29:98-9 Ja 17 '25
L'indice de toxicité et l'utilisation de l'essence dans les automobiles. Kohn-Abrest. Génie Civil 86:20 Ja 3 '25
Temperature requirements of hot spot manifolds. C. S. Kegerreis and O. C. Berry. il diags Purdue U Eng Exp Sta Bul 15:1-43 '23; Abstract. Automotive Ind 50:120-3 Ja 17 '24

See also Carbon monoxide

Fuel

Alcohol motor fuel from molasses. E. C. Freeland and W. G. Harry. Ind & Eng Chem 17:615-21, 717-20 Je-Jl '25; Excerpt. Pet Age 16:23+ Ag 1 '25
Alcohol motor fuels. M. C. Whitaker. Oil Paint & Drug Rep 108:xi pt 2 O 5 '25; Same. Chemicals 24:8 O 5 '25; Abstract. Chem Age (Lond) 13:417 O 24 '25
L'augmentation de la compression dans les moteurs à combustion interne. G. Lumet. Soc Ing Civils Bul 77:365-80 Ap '24
Automotive fuel observations. J: A. C. Warner. Am Pet Inst Bul 5:138-43 D 31 '24
Automotive fuel problem. Am Pet Inst Bul 4: 120-42 D 31 '23
Benzol-gasoline mixture for motor fuel. Bus Transportation 4:567 N '25
Carburation. D. Finlayson. Automobile Eng 15:115-23 Ap '25; Abstract. Automotive Ind 52:626-8 Ap 2 '25

AUTOMOBILE engines—Fuel—*Continued*
Complete utilization of coal and motor fuel. A. C. Fieldner and R. L. Brown. Oil Paint & Drug Rep 108:xii-xiii pt 2 O 5 '25
Cracking of low-temperature coal tar and conversion products. J. C. Morrell and G. Egloff. Ind & Eng Chem 17:473-5 My '25; Same. Gas Age 55:733-4+ My 23 '25
Discol motor fuel. K. C. Browning. Automobile Eng 14:224 Ag '24
Economic motor-fuel volatility. R. Birdsell. il Soc Auto Eng J 14:267-73 Mr '24
Economic motor fuel volatility. H. C. Dickinson and S. W. Sparrow. Am Pet Inst Bul 5:115-22 D 31 '24
Economic theory of highway grades; tests in Iowa give working equations for both automobiles and commercial vehicles. T. R. Agg. il diags Eng N 90:76-9 Ja 11 '23; Abstracts. Can Eng 45:236 Ag 14 '23; Good Roads 65:79 S 5 '23; Pub Works 54:356 N '23
Effect of tire resistance on fuel consumption. W. L. Holt and P. L. Wormeley. U S Bur Stand Tech Pa 283:213-23 '25; Abstract. Automotive Ind 52:902-4 My 21 '25
Equilibrium boiling-point and latent heat of vaporisation of motor fuels. W. R. Ormandy and E. C. Craven. diag Inst Pet Tech J 9:368-79 O '23
Eucalyptus oil as a motor fuel. Sci Am 130: 132 F '24
Examination of the refractive indices of motor fuels with regard to their aromatic contents. W. N. Hoyte. Inst Pet Tech J 11:76-80 F '25
French experimenting with gasoline substitute; Imbert gazogène. Power 60:193 Jl 29 '24
Fresh light on ethyl gas. L. J. Livshis. Pet Age 14:13-14 N 1 '24
Gasoline, by T. A. Boyd. Review. Automotive Ind 53:334-5 Ag 27 '25
Hot jacket water best for automobiles. Am Mach 62:420 Mr 12 '25
How to get the most out of the gasoline you pay for. G. W. Jones and A. A. Straub. Automotive Ind 51:212-13 Jl 24 '24
Knockless era in motoring. J: B. Rathbun. Pet Age 13:16-17 Mr 15 '24
Measurement of the fuel consumption. W. E. Lay. il Soc Auto Eng J 16:609-11 Je '25
Motor design and fuel economy. C. F. Kettering. Ind & Eng Chem 17:1115-16 N '25
Motor fuel of the future. Pet Age 16:37-8 O 15 '25
Motor fuels. Engineering 118:616-17 O 31 '24
Motor fuels. J. S. S. Brame. Engineering 119:516-17, 579 Ap 24, My 8 '25; Abstract. Chem Age (Lond) 12:408-9, 454-5 Ap 25, My 9 '25
Natural gas under very high pressure as a motor-vehicle fuel. Mech Eng 47:291 Ap '25
Need winter gas in North. J: A. C. Warner. Pet Age 16:30+ O 15 '25
New motor fuel announced by Arthur D. Little, inc. Power 61:202 F 3 '25
Oil industry likely to take lead on anti-knock fuel. P. Truesdell. Nat Pet N 16:25+ My 7 '24
Poorly designed carbureters held cause of appalling fuel waste. Automotive Ind 53:791-2 N 5 '25
Power and gasoline economy of the present-day passenger-automobile. A. A. Straub. il Soc Auto Eng J 16:102-5 Ja '25
Probable effect of automobile design on gasoline prices. A. N. Kerr. Nat Pet N 16: 45-6+ Ja 30 '24
Recent cooperative-fuel-research progress. S. W. Sparrow and J. O. Eisinger. diags Soc Auto Eng J 16:237-42 F '25; Excerpts. Automotive Ind 52:190-1 Ja 29 '25; Discussion. Soc Auto Eng J 166:140b-e F '25
Sees big waste in gasoline; only 5 per cent of energy actually used by motor. C. F. Kettering. Pet Age 16:22 Jl 15 '25
Sinclair offers new fuel. A. D. Pitney. Pet Age 15:21-2 Je 15 '25
La technique des gazogènes applicables à la locomotion. J. Auclair. Génie Civil 84:508-9 My 24 '24
Tetra-ethyl lead as an anti-detonator in high-compression engines. H. K. Thomas; W. R. Ormandy. Automobile Eng 14:308-11 O '24
L'utilisation des antidétonants dans les moteurs d'automobiles. P. Dumanois. Génie Civil 86:536-7 My 30 '25
Velocity of chemical reactions and catalysis. H. I. Schlesinger. Soc Auto Eng J 16:433-41; Discussion. 441-3 Ap '25
Winter tests show greater dilution with heavy fuels. J: A. C. Warner. Soc Auto Eng J 14:151-61 F '24; Discussion. 15:234-5 S '24

See also Alcohol as fuel; Automobile engines—Exhaust; Benzol (commercial benzene); Gas and oil engines—Fuel; Gasoline; Kerosene; Motor truck engines—Fuel

Fuel feeding

Hammer spray fuel injection system. Automotive Ind 50:174 Ja 24 '24
How new mixture distributor on Chevrolet works. diag Automotive Ind 52:219 F 5 '25
Intake-manifold distribution. H. W. Asire. il charts diags Soc Auto Eng J 14:387-95; Discussion. 370-2 Ap '24
Magnetically operated bellows pump used as new fuel feeding device. D. Blanchard. il diag Automotive Ind 51:890-1 N 20 '24
Tests show fuel supply requirements for acceleration. P. S. Tice. il Automotive Ind 53:53-9 Jl 9 '25

See also Automobile engines—Manifolds

Ignition devices

Vacuum tubes applied to engine ignition diags Automotive Ind 50:1287-9 Je 12 '24

See also Automobiles—Electric equipment; Gas and oil engines—Ignition; Magnetos

Lubrication

Another aspect of crankcase-oil dilution. P. H. Schweitzer. Soc Auto Eng J 16:92-101 Ja '25
Are reclaimed oils menace? R. B. Day. Pet Age 16:20-1 N 1 '25
Behaviour of lubricating oils under oxidising tests. J. B. Hoblyn. Inst Pet Tech J 11: 1-13, pl 1-4 F '25; Same cond. Automobile Eng 15:51-4 F '25; Discussion. Inst Pet Tech J 11:13-35 F '25
Better crank-case draining service. C. M. Larson. il Ind & Eng Chem 17:476-8 My '25
Better lubrication of an internal-combustion engine by feeding oil under pressure to the cylinder-walls. H. L. Horning. Soc Auto Eng J 16:479-80 My '25
Boosts alcohol sales with visible dispensing equipment. A. C. Carpenter. il Nat Pet N 17:82-3 My 27 '25
Car makers say 500 miles. A. M. Honnet. Pet Age 14:15+ O 15 '24
Correct engine lubrication. H. L. Dickey. Soc Auto Eng J 16:562-3 Je '25
Correct lubrication. E. B. McCartney. Soc Auto Eng J 14:354-5 Mr '24
Crankcase dilution must be checked to reduce engine wear. Automotive Ind 52:1107-8 Je 25 '25
Crankcase drainage facility and oil-sump capacity. T. A. Waerner. Soc Auto Eng J 14: 260-2 F '24
Crankcase-oil dilution. E. F. Hallock. Soc Auto Eng J 14:57-62 Ja '24; Abstract. Automotive Ind 49:1086 N 29 '23
Danger point of dilution; twenty-six makers report views. Soc Auto Eng J 15:117-21 Ag '24; Excerpt. Automotive Ind 51:292 Ag 7 '24; Discussion. Soc Auto Eng J 15:270 O '24
Deterioration and reclamation of used automobile crank-case oil. A. E. Flowers, F. H. McBerty and R. Reamer. il Ind & Eng Chem 17:481-5 [bibliog. p. 484-5] My '25
Determination of dilution of crank-case oil. H. H. Knoch, P. A. Crosby and R. R. Matthews. Ind & Eng Chem 16:1153 N '24
Dilution and lubrication problems discussed at A.P.I. meeting. Automotive Ind 51:1054-5 D 18 '24

AUTOMOBILE engines—Lubrication—*Cont.*
Dilution, its causes and measurement. S. W. Sparrow and T. S. Sligh, jr. Soc Auto Eng J 16:398-9 Ap '25
Dilution needed for easy starting in winter. O. C. Berry; J. H. Hunt. Soc Auto Eng J 15:488-9 D '24
Dilution process explained. Soc Auto Eng J 15:271-2 O '24
Effect of crank-case dilution. D. P. Barnard. Ind & Eng Chem 17:278-80 Mr '25; Same. Pet Age 15:52+ Ap 1 '25
Effects of engine operation on lubricating oil. L. T. Wagner. Soc Auto Eng J 17:263-7 S '25
Engine-oil consumption and dilution. N. MacCoull. il charts Soc Auto Eng J 15:93-100 Jl '24; Discussion. 15:337-40 O '24
Factors affecting the rate of crankcase-oil dilution. J: O. Eisinger. diags Soc Auto Eng J 15:69-74 Jl '24; Discussion. 15:333-6 O '24
Factors influencing carbon formation in automobile engines. J. W. Orelup and O. I. Lee. bibliog il diag Ind & Eng Chem 17: 731-5 Jl '25; Same cond. Pet Age 16:50-1+ Jl 15 '25
Foreign material in used oil; its character and effect on engine design. G. A. Round. il Soc Auto Eng J 16:232-6 F '25; Abstract. Automotive Ind 52:189-90 Ja 29 '25; Discussion. Soc Auto Eng J 16:140b-e F '25
Function of lubricants. A. L. Clayden. Soc Auto Eng J 14:312-14 Mr '24; Discussion. 16:77-81 Ja '25
General Electric men perfect apparatus to reclaim crankcase oil. il Automotive Ind 52: 741 Ap 23 '25
Glycerine remedy for "frozen" oil in winter driving. R. K. Floyd. Nat Pet N 16:107 S 10 '24
Isn't there a simple cure for motor lubrication troubles? P. Truesdell. Nat Pet N 16: 31-2 Jl 30 '24
Keeping the crankcase oil pure. il Sci Am 131:259 O '24
Light on crank case oils. J. B. Rathbun. Pet Age 14:64-5 N 1 '24
Luberator feeds a special oil to valve stems, upper cylinder walls and piston rings. W. L. Carver. il diags Automotive Ind 51:728-9 O 23 '24
Lubrication and dilution. S. W. Sparrow. Soc Auto Eng J 16:116-18 F '25; Excerpts. Pet Age 15:29+ Mr 15 '25
Lubrication of the automobile engine. N. MacCoull. il Am Pet Inst Bul 5:126-35 D 31 '24; Abstracts. Automotive Ind 51:1086-8 D 25 '24; Soc Auto Eng J 16:112-13 F '25
M. I. C. oil purifier replacement unit. il diags Automotive Ind 50:83-4 Ja 10 '24
Measurement of crankcase dilution; vacuum distillation transition method. T. S. Sligh, jr. Am Pet Inst Bul 5:122-5 D 31 '24; Same. Soc Auto Eng J 16:17-19, 140d-e Ja-F '25; Abstract. Automotive Ind 52:188-9 Ja 29 '25; Discussion. Am Pet Inst Bul 5:125-6 D 31 '24
Measuring the percentage of crankcase-oil dilution. T. S. Sligh, jr. diags Soc Auto Eng J 16:355-60 Mr '25
Mechanical friction as affected by the lubricant. L. H. Pomeroy. Soc Auto Eng J 14:307-12 Mr '24; Discussion. 14:312-14; 16: 77-81 Mr '24, Ja '25
Mercedes oiling system a departure from conventional practice. diags Automotive Ind 53:256-61 Ag 13 '25
More data on dilution test. J: B. Rathbun. Pet Age 14:54+ D 15 '24
Much wear from dilution? J. B. Rathbun. Pet Age 15:52-4 Ja 1 '25
New device designed to remove water, gas and dirt from lubricating oil. diag Automotive Ind 51:1052-3 D 18 '24
Oil dilution and contamination. Soc Auto Eng J 16:498-500 My '25
Oil dilution session at S.A.E. summer meeting. Automotive Ind 51:48-53 Jl 3 '24; Nat Pet N 16:17-18 Jl 9 '24
Oil flow in complete journal bearings; abstracts. D. P. Barnard. Automotive Ind 52:1136-7 Je 25 '25; Soc Auto Eng J 17:9-10 Jl '25
Possible solution of the crankcase-oil dilution problem. I. L. Anderson. il diags Soc Auto Eng J 15:43-6 Jl '24
Principles that govern lubrication. E. W. Kimball. Soc Auto Eng J 16:115-16 F '25
Problem of satisfactory, all-year-round engine lubrication. A. L. Clayden. Automotive Ind 52:810-12, 865-7 My 7-14 '25; Discussion. 52:948; 53:65 My 28, Jl 9 '25
Proposed revision of crankcase lubricating oil specifications. Soc Auto Eng J 16:266 Mr '25
Reclamation of automobile crank-case oil. C: Van Brunt and P. S. Miller. il diag Ind & Eng Chem 17:416-23 Ap '25
Rectification of diluted crankcase-oil. R. L. Skinner. il diags Soc Auto Eng J 15:51-9 Jl '24; Abstract. Automotive Ind 50:1365-7 Je 26 '24; Discussion. Soc Auto Eng J 15: 340-3 O '24
Report shows some causes of dilution of crankcase oil. P. Truesdell. Nat Pet N 16: 39-40 D 17 '24
Resents slur on western oils; crank cases should be drained every 500 miles. A. M. Honnet. Pet Age 14:15-16 S 1 '24
Rickenbacker incorporates Skinner oil rectifier in all new models. il Automotive Ind 50:1086-7 My 15 '24
Scuffed pistons result from cold jacket and lack of oil. F. Jardine. il diags Automotive Ind 51:242-4 Jl 31 '24; Discussion. 51:451-4; 52:157-8 S 4 '24, Ja 22 '25
Sell 'em more lubricants. C. M. Larson. il charts Pet Age 13:18+ Je 15 '24
Service tests of lubricants in internal combustion engines. W. S. James. il Am Pet Inst Bul 4:132-41 D 31 '23
S. A. E. present oil specifications indicative of suitability, not quality. Soc Auto Eng J 16:146-8 F '25
Some experiments in the lubrication of commercial-vehicle engines. H. D. Nickinson. Automobile Eng 14:24-9 Ja '24; Abstract. Automotive Ind 50:26-8 Ja 3 '24
Water in crankcase oils. A. L. Clayden. il Soc Auto Eng J 15:47-50 Jl '24; Same cond. Automotive Ind 51:118-20 Jl 10 '24; Discussion. Soc Auto Eng J 15:329-33 O '24
What can engineer do to help public? T. A. Waerner. Nat Pet N 15:37+ D 26 '23
What happens to the engine oil? Sci Am 131:108 Ag '24
When do lubes break down? J: B. Rathbun. Pet Age 14:14+ S 1 '24
Winter tests show greater dilution with heavy fuels. J: A. C. Warner. Soc Auto Eng J 14:151-61 F '24; Discussion. 15:234-5 S '24
Would change engine design to make oil changing easy. T. A. Waerner. Nat Pet N 15:35+ D 26 '23

See also Automobiles—Lubrication; Gas and oil engines—Lubrication

Manifolds

Fundamental improvements in manifold design. A. M. Dean, J. W. Swan and C. A. Kirkham. charts diags Soc Auto Eng J 14: 139-47 F '24; Discussion. Automotive Ind 50:227-8 Ja 31 '24; Soc Auto Eng J 14:602-7 Je '24
Intake-manifold distribution. H. W. Asire. il charts diags Soc Auto Eng J 14:387-95; Discussion. 370-2 Ap '24
Lamb improved vaporizing manifold increases power. diag Automotive Ind 52:1024 Je 11 '25
Temperature requirements of hot spot manifolds. C. S. Kegerreis and O. C. Berry. il diags Purdue U Eng Exp Sta Bul 15:1-43 '23; Abstract. Automotive Ind 50:120-3 Ja 17 '24

Manufacture

Apply patented casting metal. R. De Fleury. Foundry 52:263-6 Ap 1 '24

AUTOMOBILE engines—Manufacture—*Cont.*
Applying jigs and fixtures to engine-block machining. J. G. Moohl. il Soc Auto Eng J 17:323-4+ O '25; Same, without il. Am Mach 63:584-5 O 8 '25; Same. Mach 32:179 N '25
Assembling Packard cylinder blocks to crankcases. C: O. Herb. il Mach 31:99-100 O '24
Automotive jigs that save time. J. G. Moohl. diags Mach 31:640-3 Ap '25
Building the Chrysler motor. J: Younger. il Am Mach 62:845-8 My 28 '25
Causes of defects in castings of complex design. J. McIntosh. Iron Age 114:1607-8 D 18 '24
Cleaning automobile castings. F. B. Jacobs. il Foundry 52:110-12 F 1 '24
Cleveland big end piston rod bearings are die cast in place. M. R. Wells. il Automotive Ind 52:858-60 My 14 '25; Same. Am Mach 62:770-2 My 14 '25
Cylinder honing. Soc Auto Eng J 14:494-5 My '24; Same. Mach 30:826 Je '24
Designed for one saving—makes three; pneumatic lifting. il Factory 34:61 Ja '25
Engine blocks completely machined in one multiple tool operation. il plan Automotive Ind 52:272-5 F 12 '25
Fiat automobile production methods. J. A. Lucas and F. E. Bardrof. il Am Mach 61: 1-4, 49-53, 157-9, 223-5, 295-7 Jl 3-10, 24, Ag 7, 21 '24
Honing the Maxwell cylinders. C. H. Franklin. il Am Mach 60:448 Mr 20 '24
How Packard crankshafts are balanced. il Mach 31:675-8 My '25
Katalite; a new substance for coating cylinder walls said to promote fuel economy. Automotive Ind 50:680-1 Mr 20 '24
Light alloys; a general survey of modern practice. J. B. Swan. il Automobile Eng 14: 293-300 O '24; Discussion. L. H. Pomeroy. 15:14 Ja '25
Low phosphorus metal for cylinder castings. A. Harley. il Foundry 53:311-13 Ap 15 '25
Machining Buick cylinder blocks. J: Younger. il Am Mach 61:503-5 S 25 '24
Machining cylinders for the Gray motor. H. Campbell. il diags Am Mach 61:659-62 O 23 '24
Machining Pierce-Arrow cylinders. C: B. Ekdahl. il diags Mach 31:968-72 Ag '25
Make aluminum auto castings. il diag Foundry 53:16-19 Ja 1 '25
Manufacture of sleeve valve engines. J: Younger. il diags Am Mach 62:385-7 Mr 5 '25
Les métaux légers dans les moteurs à explosion. L. de Fleury. Soc Ing Civils Bul 77: 712-33 [bibliog. p. 733], pl 85 O '24
Modern automobile foundry practice. P. Pritchard. il Automobile Eng 14:84-91 Mr '24
Nickel increases hardness of cylinder castings. Automotive Ind 50:505 F 28 '24
Original methods in car manufacture; the organisation and equipment of the Austin motor works. il Automobile Eng 15:263-8, 301-6 Ag-S '25
Piston rods of different designs machined on standard set of tools. H. O. Schultz. il Automotive Ind 52:824-5 My 7 '25
Policies and methods underlying the manufacture of Red seal Continental motors. J: Younger. il Am Mach 62:343-8 F 26 '25
Production of a high-grade car; a description of the works and methods of Armstrong Siddeley motors, ltd. il Automobile Eng 15: 182-6, 223-7 Je-Jl '25
Production of Rickenbacker motor parts. H. Campbell. il Am Mach 61:609-12 O 16 '24
Some notes on British methods of continuous production. F. G. Woollard. il diags plan Automobile Eng 15:85-93 Mr '25
Some problems solved in manufacturing the Hupp eight. J: Younger. il diag Am Mach 62:529-32, 571-5 Ap 2-9 '25
Special fixture used in assembling Packard cylinder block to crankcase. il Automotive Ind 50:564-5 Mr 6 '24
Special machines in an automobile plant. il Mach 31:695-8 My '25
Studebaker open news shop. P. Dwyer. il Foundry 52:889-93+ N 15 '24
Two new production processes developed. Automotive Ind 50:240-1 Ja 31 '24
Unusual tool grouping lowers costs of Nash engine production. il diag Automotive Ind 50:559-63 Mr 6 '24

See also Automobile parts; Pistons

Performance

Power and gasoline economy of the present-day passenger-automobile. A. A. Straub. il Soc Auto Eng J 16:102-5 Ja '25

Radiators

Constructing automobile radiators. C: O. Herb. il diags Mach 30:454-9 F '24
Engine-cooling systems and radiator operating characteristics. N. S. Diamant. diags Soc Auto Eng J 14:396-406 Ap '24; Discussion. 15:229-32 S '24
Gas at every stage of automobile radiator production. F. I. Newton. il Gas Age 55:47-8+ Ja 10 '25
How air trapping is prevented in steam cooling system radiators. diag Automotive Ind 51:332-3 Ag 14 '24
Lighter header plates urged to improve radiators. R. S. Wentworth. Automotive Ind 53:206 Ag 6 '25; Discussion. 53:341 Ag 27 '25
Low-temperature warm-air drying oven. il diags Sheet Metal Worker 15:377-8 Je 6 '24
McCord radiator core stamped from ribbon brass. il Automotive Ind 50:1084-5 My 15 '24
New radiator core has aluminum fins. il diag Automotive Ind 49:945 N 8 '23
Quality of nickel finish is improved by Packard researches. il diags Automotive Ind 50:676-8 Mr 20 '24
Types of radiator core and the methods of constructing them; abstract. F. M. Young. Soc Auto Eng J 16:561-2 Je '25

See also Anti-freeze solutions; Automobile engines—Cooling

Repair

Engine reconditioning—refinishing of cylinders and aligning of shafts. R. C. McWane. Soc Auto Eng J 17:334-8 O '25
From A to Z in engine maintenance. D. Andrews. il Bus Transportation 3:377-81 Ag '24

Specifications

American passenger car engine specifications; tabulation. Automotive Ind 50:400-3; 52: 362-5 F 21 '24, F 26 '25
American stock engine specifications; tabulation. Automotive Ind 50:442-5; 52:408-11 F 21 '24, F 26 '25

Standards

Engine division recommendations. Soc Auto Eng J 16:494-6 My '25
Support-arm widths decided upon; extension of present S. A. E. standard. Soc Auto Eng J 16:40 Ja '25

Starting

See Automobiles—Starting

Starting devices

See Automobiles—Starting devices

Superchargers

Airplane supercharger is now being used on racing motor cars. il Sci Am 133:194 S '25
Automobile-supercharger development during 1924. D: Gregg. Soc Auto Eng J 16:595 Je '25
Automobile superchargers. D: Gregg. Soc Auto Eng J 15:38-9 Jl '24
Berk supercharger. diags Mech Eng 47:754-5 S '25
Duesenberg supercharger revolves at 30,000 r. p. m. Automotive Ind 52:1034 Je 11 '25; Gen Elec R 28:600 Ag '25

AUTOMOBILE engines—Superchargers—*Cont.*
Race at Indianapolis also victory for balloon tires and superchargers. B. M. Ikert. il Automotive Ind 52:973-4 Je 4 '25
Supercharger permits use of smaller engines with surplus power. P. M. Heldt. Automotive Ind 50:1329-32 Je 19 '24
Supercharging. J. G. Cameron. Automobile Eng 15:244-7 Ag '25
Supercharging at low speeds. il Mech Eng 47:126 F '25

Temperature

Flow of heat in pistons. H. A. Huebotter. il Soc Auto Eng J 15:490 D '24

Testing

Determination of gas distribution in internal-combustion engines by gas analysis. G. W. Jones, W. P. Yant and L. B. Berger. diags U S Bur Mines Rep of Invest 2631: 1-6 Ag '24 (typew); Same. Automotive Ind 51:682-4 O 16 '24
Engine-starting tests. J: O. Eisinger. il diags Soc Auto Eng J 17:52-7 Jl '25; Abstract. Automotive Ind 52:1137-8 Je 25 '25; Discussion. Soc Auto Eng J 17:474-5 N '25
Ingenious device used to determine unburned fuel in exhaust gases. M. Moeller and M. U. Büchting. il diags Automotive Ind 51: 568-9 S 25 '24
Laboratory tests show effects of different fuels and oils on engine performance. il Automotive Ind 51:608-10 O 2 '24
More data on dilution test. J: B. Rathbun. Pet Age 14:54+ D 15 '24
Novel machine tests engines at Morris plant in England. F. G. Woollard. il diags Automotive Ind 52:308-10 F 19 '25
Wear from diluted oil? D. P. Barnard. Pet Age 15:52+ Ap 1 '25

Valves

Les avantages et les inconvénients des moteurs sans soupapes et à soupapes. Génie Civil 86:363-4 Ap 11 '25
How forged nickel steel Poppet valves are machined on turret lathes in England. T. H. Hargrave. diags Automotive Ind 52:268-9 F 12 '25
Manufacturing automobile valve tappet parts. il diags Mach 30:282-6 D '23
Proposed revision of S.A.E. standard for poppet valves. Soc Auto Eng J 16:495, 588 My-Je '25
Valve capacities compared. diag Automotive Ind 52:664 Ap 9 '25

Vibration

Killing vibrations with vibrations; Lanchester balances on the Willys-Knight. diags Sci Am 132:190-1 Mr '25
Measurement of engine vibration phenomena. C. E. Summers. il diags Soc Auto Eng J 16:163-71 F '25; Abstract. Automotive Ind 52:135-7 Ja 22 '25; Discussion. Soc Auto Eng J 16:132-3, 639-44 F, Je '25
Some new electrical instruments for automotive research. J. H. Hunt and G. F. Embshoff. bibliog il diags Soc Auto Eng J 16: 444-55 Ap '25
Taking the period out of the automobile engine. il Sci Am 131:107+ Ag '24
Vibration in four-cylinder engines. L. C. Freeman. Soc Auto Eng J 14:444-5 Ap '24
Willys-Knight adds Lanchester balancer and increases engine torque. D. Blanchard. diags Automotive Ind 51:435-6 S 4 '24

AUTOMOBILE fabric
Fabric body is announced by Apperson. il Automotive Ind 52:1118 Je 25 '25
Inside story of Ford textile experiments. D. G. Woolf. Textile World 68:2773-5 N 7 '25
Oil and leather cloths; list of uses in different industries. J. W. Cox, jr. il Textile World 65:4214+ Je 28 '24

See also Automobiles—Upholstery; Automobiles—Tops

Specifications

Oil and leather cloths; specifications for automobile materials. J. W. Cox, jr. Textile World 65:3011 My 3 '24

Testing

How qualities of coated automotive fabrics are determined. E. B. Benger and N. M. Nickowitz. il diags Automotive Ind 49:1262-6, 1306-8 D 20-27 '23
Ultra-violet rays used to test body fabrics and finishes. W. L. Carver. il chart diag Automotive Ind 50:1011-14 My 8 '24

AUTOMOBILE factories
Citroën automobile shops in France. G. L. Carden. il Iron Age 112:1310-12 N 15 '23
Compact automobile assembly plant. plan Am Mach 61:580-1 O 9 '24
Factor of plant location in automobile production. J: A. Piquet. il Ind Management 68: 297-304 N '24
Foundries of automobile builder; Cadillac plant houses iron, aluminum and brass units together. F. L. Prentiss. il plan Iron Age 115:1035-40, 1199-1202 Ap 9, 23 '25
Impressive story of Fiat; the plants and their products. J. A. Lucas and F. E. Bardrof. il plan Am Mach 60:603-7, 655-9, 693-6, 763-7, 927-31 Ap 24-My 8, 22, Je 19 '24
Intensive production; Cubitt car works, planned and equipped for large outputs. il Automobile Eng 14:203-10 Jl '24
Modern engineering department. J: Younger. il Am Mach 63:615-17 O 15 '25
New automobile shop of the Ajax motors co., Racine, Wis. J: Younger. il Am Mach 63: 647-52 O 22 '25
New Ford assembling plant, Toronto. il Can Eng 46:479-80 Ap 29 '24
Original methods in car manufacture; organisation and equipment of the Austin motor works. il Automobile Eng 15:263-8, 301-6 Ag-S '25
Processes affect design of automobile factories. F. A. Fairbrother. il Eng N 93:834-6 N 20 '24
Production of a high-grade car; a description of the works and methods of Armstrong Siddeley motors, ltd. il Automobile Eng 15: 182-6, 223-7 Je-Jl '25
Works of Vauxhall motors, ltd. il Automobile Eng 15:341-7 O '25

See also Automobile engines—Manufacture; Automobiles—Manufacture; *also* Ford motor company; Hall-Scott motor car company, Berkeley

Accounting

How we keep costs at their proper level. E. F. Roberts. Factory 33:650-3+ N '24

Employees

Automotive factory labor costs cut 10 to 50% in last two years. N. G. Shidle. Automotive Ind 53:401-3 S 10 '25
German metal workers' federation study of the German automobile industry. A. Maylander. Monthly Labor R 20:463-80 Mr '25
How the automobile industry is approaching the wage payment problem. N. G. Shidle. Automotive Ind 53:495-502 S 24 '25
Machinery and its effect upon the workers in the automotive industry. C: Reitell. Ann Am Acad 116:37-43 N '24
Training machinists in the Reo plant. C: O. Herb. il diag Mach 31:847-51 Jl '25
Wages and hours of labor in the automobile industry, 1922. U S Bur Labor Statistics Bul 348:1-70 '23

Equipment

Automatic equipment cuts painting cost. il Iron Age 114:555-7 S 4 '24
Automotive industry and the machine tool builder. Am Mach 63:525-32 O 1 '25
Conveyance of materials—varying degrees of perfection reached in systems now in use. W. L. Carver. il Automotive Ind 53:484-91 S 24 '25
Conveying sub-assemblies in the Oakland plant. H. Campbell. il diags Am Mach 60:831-3 Je 5 '24

AUTOMOBILE factories—Equipment—*Cont.*
Equipping an ideal automobile plant. A. L. De Leeuw. Am Mach 59:825-7 D 6 '23; Discussion. A. Fredericks. 60:128 Ja 24 '24
Heat-treating furnaces of continuous type. G. L. Lacher. il Iron Age 113:1067-72 Ap 10 '24
High-production machines in the automobile shop; Fay automatic lathe as a single-purpose machine. il Am Mach 63:431-5 S 10 '25
High-production machines in the automobile shops; Simplimatic lathe. il diags Am Mach 61:191-4 Jl 31 '24
How the automotive industry selects equipment. il Mach 32:87-92, 184-9 O-N '25
Is the buyer responsible for the cost of machine equipment? H. Tipper. Automotive Ind 50:1038-9 My 8 '24
Jigs for irregular-shaped automobile parts. J. G. Moohl. diags Mach 32:133-6 O '25
Machine-tool needs of the automotive industry. R. M. Hidey. Soc Auto Eng J 17:359-60 O '25; Same. Am Mach 63:533-5 O 1 '25; Same. Mach 32:107-8 O '25; Same cond. Automotive Ind 53:527-8 S 24 '25; Abstract. Iron Age 116:841 S 24 '25
Machine tools for automotive shops. L: Ruthenburg. Mach 31:193 O '24
Mechanical handling at River Rouge. M: W. Potts. folding pl il diags plans Ind Management 68:67-114 Ag '24
Modern plant as a production machine. E. H. Nenning. il Am Mach 61:273-6 Ag 14 '24
New or improved machines recently developed for speeding up processes of car production. il diag Automotive Ind 52:150-1 Ja 22 '25
Power conveyors in the automobile plant. il Mach 30:541-3 Mr '24
Principles underlying some automobile jigs. K. E. M. Karlson. il diags Am Mach 62:229-32 F 5 '25
Production equipment for inspection. W. E. Irish. diags Am Mach 63:735-7 N 5 '25
Tools and fixtures in the Pierce-Arrow plant. C: B. Ekdahl. il diags Mach 32:46-50 S '25
Tunnels facilitate handling of material in new foundry. P. Dwyer. il plan Iron Tr R 75: 879-83+ O 2 '24
When should old machine equipment be replaced? W. L. Carver. Automotive Ind 50: 906-9 Ap 24 '24

Maintenance and repair

Maintenance practice at the Ford plant. E. E. Remington. il Soc Auto Eng J 16:82-5+ Ja '25; Discussion. 16:527-33 My '25

Management

Buying on purely price basis often proves expensive in the long run. H. Tipper. Automotive Ind 51:887-8 N 20 '24
Complete gaging system fosters pride in maintaining high quality. W. L. Carver. il Automotive Ind 51:472-6 S 11 '24
Cut production waste—modernize! W. L. Carver. il Automotive Ind 52:447-50 Mr 5 '25
Digging dollars out of raw material purchases. H. Tipper. Automotive Ind 51:808-9 N 6 '24
Each factory department must be coordinated with others. W. L. Carver. Automotive Ind 50:113-15 Ja 17 '24
Excess plant capacity is a serious problem for both large and small producers. Automotive Ind 51:1051 D 18 '24
Few high points on the inspection of processed material. C. S. Stark. Soc Auto Eng J 15:156-8 Ag '24
Fundamentals of cost reduction. H. K. Thomas. il Cassier's Ind Management 11:123-5 Mr 6 '24
How we cut overhead 80%. J: N: Willys. il System 48:263-8+ S '25
How we maintain a smooth flow of production. E. F. Roberts. Factory 33:794-7+ D '24
Inspection methods symposium. Soc Auto Eng J 15:437-9+ N '24
Is your inspection policy preventive or corrective? J: Younger. Am Mach 62:701-2 Ap 30 '25
Keeping track of quality. A. H. Frauenthal. il Am Mach 62:7-11 Ja 1 '25
Maintaining high-quality production. C. J. Jones. Soc Auto Eng J 15:160-2 Ag '24
Management in the automobile factory. Automobile Eng 15:188 Je '25
Material handling as our key to many savings; the Studebaker plant. M. R. Denison. il Factory 33:30-3+, 190-3+ Jl-Ag '24
Material handling is cut to minimum in Jewett assembly plant. W. L. Carver. il plan Automotive Ind 50:281-8 F 7 '24
Material-handling problems encountered in the assembly of automobiles. M. R. Denison. Mech Eng 46:339-42 Je '24; Abstract. Automotive Ind 50:1276-7 Je 12 '24
Modern production methods in Sunbeam works. il Automobile Eng 14:15-19 Ja '24
Price is only one of the elements involved in profitable buying. H. Tipper. Automotive Ind 51:778-80 O 30 '24
Production methods in Central Europe; a review of the present situation in the automobile industry. il Automobile Eng 14:106-11 Ap '24
Production progress in 1924. W. L. Carver. Automotive Ind 51:749-51 O 30 '24
Quality habits that were transplanted 3000 miles. L. J. Belnap. Management & Adm 7:167-8 F '24
Quality manufacturing at predetermined costs. E. F. Roberts. il Factory 33:495-7+ O '24
Quantity control of inventories. E. K. Wennerlund. Management & Adm 7:677-82 Je '24
To succeed—deal sincerely with men, watch factory overhead—says Chas. W. Nash. N. G. Shidle. Automotive Ind 52:1012-15 Je 11 '25
What factors are involved in determining machine tool buying policy? H. Tipper. Automotive Ind 51:924-5 N 27 '24
Why not discard the double standard in buying and selling? H. Tipper. Automotive Ind 51:833-5 N 13 '24
Why we can cut prices, raise the quality, and maintain profits. H. M. Jewett. Sales Management 9:479-80+ O 17 '25

Safety devices and measures

Reducing fire hazards from dipping tanks. il Ind Eng 82:497-8 O '24
Studebaker folks working together. C. T. Fish. il Nat Safety N 10:9-11 S '24

AUTOMOBILE ferries
Automobile ferry boat Hampton Roads enters service. il plans Marine Eng 30:485-7 S '25
Le bac à moteur Diesel, pour automobiles, de l'île de Vancouver (Canada). diag plan Génie Civil 83:411 O 27 '23
Diesel-driven motor car ferry for Canada. Sci Am 130:111 F '24
Diesel engine car ferry the Motor Princess. B. D. Robinson. il Can Eng 48:217-18 F 10 '25
Rebuilds steamer into auto ferry. il Marine R 54:428-9 N '24

AUTOMOBILE fuel. See Automobile engines—Fuel

AUTOMOBILE industry and trade
American makers must help to change selling conditions abroad. A. Reeves. Automotive Ind 51:523 S 18 '24
Are your dealers asking "what's coming next?" N. G. Shidle. Automotive Ind 51: 269-70 Ag 7 '24
Automobile industry and its wealth-contributing factors. C. Reeves. Ann Am Acad 115: 212-15 S '24
The automobile: its province and its problems. Ann Am Acad 116:1-279 N '24
Automobile selling, by practical salesmen. 115p Chicago automobile trade assn., Chicago '24
Automotive industry best customer of steel products. W: C. Hirsch. Automotive Ind 50: 7-11 Ja 3 '24

AUTOMOBILE industry and trade—*Continued*

Basic factors of production. K. T. Keller. Soc Auto Eng J 17:494-5 N '25

Capital turnover and profits. C. A. Musselman. il Automotive Ind 52:527-8 Mr 19 '25

Car sales continue on up grade as vacation season ends. N. G. Shidle. Automotive Ind 51:469-71 S 11 '24

Care in buying grows as raw material consumption reaches huge total. J. E. Smith. Automotive Ind 50:1024-6 My 8 '24

Close checking of short-swing trends cuts selling costs. Automotive Ind 51:957-9 D 4 '24

Commerce department helps business make profits Automotive Ind 51:632 O 9 '24

Conference of the National automobile dealers' association held in New York, Jan. 5. S. Shelton. Automotive Ind 52:114-15 Ja 15 '25

Customs duties on American motor vehicles in eighteen foreign countries. Automotive Ind 52:592 Mr 26 '25

Dealers and distribution are big 1924 problems. N. G. Shidle. Automotive Ind 50:378-80 F 21 '24

Dealers determined to get bigger profit out of business. J. Dalton. Automotive Ind 50:267-71+ F 7 '24

Does the automobile hurt your business? A. H. Temple. Comm & Fin 13:1397-8 Jl 23 '24

Does the automobile-owning public eat macaroni? W. B. Edwards. Ptr Ink 126:91-2+ F 7 '24

Durant's spectacular effort to stage big comeback. B. C. Forbes. Forbes 15:615-17+ F 15 '25

Export manager and combination agent both have place in export selling. Automotive Ind 51:718-19 O 23 '24

Foreign automotive men describe prospects for motor vehicle sales. Automotive Ind 50: 1164-5 My 29 '24

Fourth stage of the business of transportation. E: S. Jordan. Sales Management 8: 885-6 Je 13 '25

General increase in discounts is unlikely, manufacturers say. D. M. McDonald. Automotive Ind 51:330-1 Ag 14 '24

Good prophets boost profits. N. G. Shidle. Automotive Ind 51:549-51 S 25 '24

Has Ford lost his big sales punch in the low-priced field? design and service chief factors in new era. N. G. Shidle. il Automotive Ind 53:727-9 O 29 '25

Has the automobile industry reached a practical saturation point? R. F. Davidson. Nat Pet N 17:23-4 F 4 '25

Has the neighborhood dealer come to stay? N. G. Shidle. Automotive Ind 51:349-51 Ag 21 '24

High tide of motor car buying alarms other trades. J. Dalton. Automotive Ind 49:1255-7 D 20 '23

How Chevrolet helped thirteen dealers pass a sales goal of $1,500,000. E. B. Weiss. Ptr Ink 126:121-2+ Ja 3 '24

How Dodge brothers has kept going profitably at top speed. N. G. Shidle. Automotive Ind 51:629-32 O 9 '24

How Elwood Haynes came to build first horseless carriage. O. D. Foster. il Forbes 15:679-82 Mr 1 '25

How one president visualizes the capacities of the dealer of the future. A. B. C. Hardy. Automotive Ind 52:231-2 F 5 '25

Industry finds growing profits in foreign sales. N. G. Shidle. Automotive Ind 50:1107-10 My 22 '24

Jordan knew he could do it—and he did. O. D. Foster. Forbes 14:15-17+ Ap 12 '24

Management problems in the automotive industry; distribution replacing production as the dominant factor. H. M. Jewett; J. H. Collins. Taylor Soc Bul 10:191-5 Ag '25

Manufacturers plan to make dealer help more practical. N. G. Shidle. Automotive Ind 50: 812-14 Ap 10 '24

Motor trade outlook. Moody's Inv Serv 16: 453-4 D 18 '24

Motor vehicle development helps all industries, business leaders say. A. Macauley. Automotive Ind 50:1373-5 Je 26 '24

Needed: a better mutual understanding between car manufacturers and machine tool builders. W. L. Carver. il Automotive Ind 53:687-90 O 22 '25

1925 policy bearing fruit. N. G. Shidle. Automotive Ind 52:729 Ap 23 '25

No General Motors division will require or permit dealers to be overloaded. A. V. Comings. Automotive Ind 51:449 S 4 '24

Payne motor company proves that cars can be sold out of season. R. McDaniel. il Sales Management 7:1853-4 D '24

Planning department—for what? W. L. Carver. Automotive Ind 53:734-6 O 29 '25

Planning future business from sales trends of the past. A. V. Comings. Automotive Ind 52:937-40 My 28 '25

Price or quality; which is the wiser selling argument? Automotive Ind 52:900-1 My 21 '25

Production figures do not show small makers hopeless. J. Dalton. Automotive Ind 50:649-51 Mr 20 '24

Production schedules and the life of the automobile. J: Younger. Am Mach 61:279-80 Ag 14 '24

Profitable export market analysis; methods of American automotive manufacturers. G: F. Bauer. Management & Adm 9:561-4 Je '25

Quota system gives Chevrolet better control of retail selling. D. M. McDonald. Automotive Ind 52:861-2 My 14 '25

Reasonable stocks favored for dealers. Automotive Ind 54:463+ S 4 '24

Rubber bill of the automobile. B: Benton. India Rubber W 70:458 Ap '24

Sales in 1924 not likely to equal productive capacity. J. Dalton. Automotive Ind 50: 321-3+ F 14 '24

Selling the automobile overseas; how General Motors' export business is handled. J. D. Mooney. il chart Management & Adm 8:27-32 Jl '24

Stock prices today give little indication of future business; merely reflect current status. H. H. Sibley. Automotive Ind 52: 1030-1 Je 11 '25

Successful car importer without previous experience. il Am Exporter 95:77+ S '24

Taylor society at Ann Arbor takes up management problems of automobile industry. Iron Tr R 76:1355-7 My 21 '25; Automotive Ind 52:891-3 My 21 '25; Iron Age 115:1481-3 My 21 '25

Turn the spotlight on your dealer educational work. N. G. Shidle. Automotive Ind 52:133-4 Ja 22 '25

Vision and courage built up great Fiat company. O. D. Foster. il Forbes 14:421-4 Jl 5 '24

Vital dealer problems pressing for immediate solution. N. G. Shidle. Automotive Ind 51: 89-91 Jl 10 '24

Voluntary production cuts have brought stability to industry. J. H. Collins. Automotive Ind 51:594-5 O 2 '24

Walker found a solution to the old trade-in bugaboo. D. G. Baird. il Sales Management 9:359-60+ S 19 '25

We can make and sell cheap cars. E: S. Jordan. Nation's Business 13:54 Jl '25

What factors will determine sales volume in the future? H. Tipper. Automotive Ind 50: 962-3 My 1 '24

What of the motor car industry in 1925? A. Macauley. Comm & Fin 14:65-6 Ja 14 '25

Wholesale organization in the automobile industry. C. E. Griffin. Harvard Business R 3:424-35 Jl '25

See also Automobile accessories industry; Automobile factories; Automobile service stations; Automobiles—Prices; Electric vehicles; Garages; Motor truck industry and trade; Tractor industry and trade; *also* Buick motor company; Cadillac motor car company; Dodge brothers, inc.; Ford motor company; General motors corporation; Hudson motor car company; Hupp motor corporation; Nordyke and Marmon company; Packard motor car company; Reo motor car

AUTOMOBILE industry and trade—*Continued*
company; Rickenbacker motor company, Detroit; Studebaker corporation; Willys-Overland company; World motor transport congress; *also* Renault, Louis; Royce, Frederick Henry; White, Walter C.

Advertising

Advertising problems become complex as industry grows. Automotive Ind 49:1088-90 N 29 '23

Applying laws of art criticism to Buick advertising. R: Surrey. Ptr Ink 126:101-2+ Mr 13 '24

Domestic advertising has made a foreign demand for American automobiles. Ptr Ink 127:93-4+ My 1 '24

Eight manufacturers co-operate to advertise new Studebaker. Ptr Ink 128:129-30 S 18 '24

Every advertising man in the country seems to want my job. E: S. Jordan. Ptr Ink M 11:21-2 N '25

General Motors places its cars on non-competitive basis. G. A. Nichols. Ptr Ink 125: 17-19 D 13 '23

How Chevrolet encourages its dealers to advertise. G. A. Nichols. Ptr Ink 132:95-6+ S 3 '25

How much horsepower has an automobile advertisement? K. M. Goode. Sales Management 7:1449-50+ S '24

How Oakland introduced its new four-wheel brake car. Ptr Ink 126:138+ Ja 10 '24

How Rickenbacker advertising averted bankruptcy. E. L. Pelletier. Ptr Ink 128:75-6 Jl 17 '24

How to write automobile advertising which will be read. S. L. Smith. Automotive Ind 50:662-4 Mr 20 '24

Is modern advertising art modern enough? D. Gridley. Ptr Ink 131:81-2 Ap 2 '25

Is this the best auto advertisement of the month? Sales Management 7:1708 N '24

Jordan analyzes automobile advertising. E: S. Jordan. Ptr Ink 127:185 Je 26 '24

Know your stuff, key-note of annual sales conference of the Chilton class journal company, Philadelphia. Automotive Ind 53: 550-2 S 24 '25

Making the prospect guess; Buick motor company advertising. C. M. Harrison. Ptr Ink 128:33-4+ Ag 7 '24

Newspaper editor tells—what I think is wrong with automobile publicity. D. Ashton. Automotive Ind 53:210-12 Ag 6 '25

Open-letter idea gets a new lease on life. J. True. Ptr Ink 131:142+ Ap 23 '25

Pictures—a commercial necessity. R. Highet. il Ptd Salesmanship 45:543-8 Ag '25

Pierce-Arrow defies advertising precedents of its trade. W. Bates. Ptr Ink 128:33-4 Ag 28 '24

Planning direct advertising for the auto trade. R. E. Ramsay. il Inland Ptr 74:725-8 F '25

Round three of the Goode-Power tilt over automobile advertising. K. M. Goode. Sales Management 7:1839-40+ D '24

Sealed order week combines dealer education with sales appeal. D. M. McDonald. Automotive Ind 51:362-3 Ag 21 '24

Selling service in advance. Ptr Ink 130:60 Ja 1 '25

Sells British automobiles by teaching driving. T: Russell. Ptr Ink 128:76 Jl 31 '24

So Ford is advertising. F. Russell. Ptr Ink 128:41-2+ Jl 17 '24

Special advertising copy written for each dealer under new Chevrolet plan. Automotive Ind 53:426 S 10 '25

Toledo advertising conference brings out merchandising needs. Automotive Ind 50: 1379-80 Je 26 '24

Urge closer tie between advertising and sales. Automotive Ind 52:1078 Je 18 '25

Using new-product methods to sell trade-ins. B. F. Berfield. Ptr Ink 132:64+ Jl 2 '25

Waste in advertising; find it and stop it! H. Tipper. il Automotive Ind 52:293-5 F 19 '25

Well! what is the horse power of automotive advertising? W: S. Power. Sales Management 7:1671-2 O '24

Your advertising—does it cost money or bring profits? H. Tipper. Automotive Ind 52:847-8 My 14 '25

See also Automobile accessories industry—Advertising

Finance

Analysis of a risk. T: M. Simpson. Comm & Fin 14:2091-2 O 28 '25

Automobile insurance activity allied with time sales problems. J: C. Gourlie. Automotive Ind 53:201-4 Ag 6 '25

Automotive installment paper—has the limit of safety been reached? H. P. Willis. Automotive Ind 53:607-9 O 8 '25

Changes in financing adopted in Chicago. Automobile Ind 51:1020 D 11 '24

Chrysler announces new financing plan. Automotive Ind 52:1157 Je 25 '25

Concern felt over growing liberality of time sales terms. N. G. Shidle. Automotive Ind 53:8-10 Jl 2 '25

Danger in new down payment plan. Automotive Ind 53:73 Jl 9 '25

Decline in automobile shares. W. F. Wamsley. Annalist 23:414 Ap 7 '24

Extension of time sales abroad increasing exports of cars and trucks. D. G. O'Connor. Automotive Ind 51:1090-1 D 25 '24

Finance companies aid industry. A. R. Erskine. Automotive Ind 50:1163 My 29 '24

Financing automobile sales abroad. G: F. Bauer. Management & Adm 9:365-8 Ap '25

Financing domestic automobile sales. C. C. Hanch. Management & Adm 9:475-80 My '25

Financing installment paper, mainly with reference to purchase of automobiles. E: H. Clark, jr. Comm & Fin Chr 121:791-2 Ag 15 '25

Financing the automobile. H: G. Hodges. Ann Am Acad 116:49-57 N '24

Financing the purchase of automobiles. C. H. Getz. Bankers M 108:869-72 Je '24

Financing the sale of automobiles. J. A. Estey. Ann Am Acad 116:44-9 N '24

Foresight or folly in automobile financing? H. B. Lewis. Bankers M 111:413+ S '25

Freeing credit from competition; automobile financing stabilized. E. Dakin. Comm & Fin 13:2455-6 D 24 '24

Germany adopts time payment plan to bolster car sales. Automotive Ind 53:44-6 Jl 9 '25

How the new Ford five-dollar-a-week plan is going to work. D. M. McDonald. Automotive Ind 51:437-8 S 4 '24; Excerpts. Ptr Ink 129:10+ N 13 '24

Instability of the automobile industry. E. W. Axe. Annalist 26:507 O 23 '25

Insurance that insures sales; Chrysler plan. E. Dakin. Comm & Fin 14:1579-80 Ag 19 '25

Keep automobile paper sound, urges finance association manager. C. C. Hanch. Automotive Ind 53:121-2 Jl 23 '25

Mobilization of cash reserves; tuning up General Motors. A. H. Swayne. il Management & Adm 7:21-3 Ja '24

Motor cars on credit. C. C. Cooper. il Dun's Int R 44:51-4 S '24; Same cond. Am Exporter 95:16-17+ S '24; Excerpt. Automotive Ind 50:1166-7 My 29 '24

Motor industry as whole reaped profit of 12.2 per cent in 1924. A. Motelle. Automotive Ind 53:1-4 Jl 2 '25

New Chevrolet motor car deferred purchase plan. Bankers M 109:949 N '24

Part of the automobile financing company in our credit structure. E. S. Hare. Bankers M 108:43-8 Ja '24

Safety of retail credit structure must be guarded zealously. J. Dalton. Automotive Ind 50:903-5+ Ap 24 '24

Should the automobile dealer finance his own sales? E. S. Hare. Bankers M 110:253-5 F '25

Time sales situation brings more comments from bankers and finance men. Automotive Ind 53:302-3 Ag 20 '25

AUTOMOBILE Industry and trade—Finance —*Continued*

Time sales situation—what the finance companies, bankers and car manufacturers have to say about it. N. G. Shidle. Automotive Ind 53:161-4 Jl 30 '25

Today's profits—conserve them! J: C. Gourlie. Automotive Ind 53:767-9 N 5 '25

What lies ahead for the motor stocks? P. Gourrich. Annalist 25:222 F 9 '25

What the new Chevrolet $5 a week plan offers dealers and buyers. Automotive Ind 51:490-1 S 11 '24

See also General motors corporation; National association of finance companies

New models

Are yearly models on the way out? N. G. Shidle. Automotive Ind 51:429-31 S 4 '24

Bringing out a new line—the dealer's angle; the Marmon automobile. D. Gridley. Ptr Ink 130:125-6+ F 19 '25

Do yearly models pay? T. J. Little, jr. Soc Auto Eng J 15:288-9 O '24

Frequency of change of automobile models. T. J. Litle, jr. Taylor Soc Bul 10:196-8 Ag '25

Minimizing automobile style changes. Comm & Fin 14:1222 Je 24 '25

Periodicals

Automotive trade journals in high on the upgrade. il Ptg Art 44:155-61 O '24

Salesmen

Broadway's crack auto salesmen. A. Slavitt. Sales Management 8:735-6+ My 16 '25

Chevrolet course for salesmen follows correspondence school methods. D. M. McDonald. Automotive Ind 50:1123-4 My 22 '24

Convention of salesmen first gun of Chevrolet fall sales drive. D. G. Baird. il Sales Management 9:83-4+ Jl 25 '25

Developing the right type of retail automotive salesman. N. G. Shidle. Automotive Ind 52:782-4 Ap 30 '25

Educating retail automobile salesmen. R. Schrenkeisen. Automotive Ind 53:583-4 O 1 '25

How much should the salesman talk about the other fellow's line? R. Giles. Ptr Ink 126:57-8+ F 28 '24

Selling a car a day. E. Whitmore. il Sales Management 8:293-4+ F 21 '25

Successful method of selecting and developing salesmen. C. C. Henshaw and R. S. Richey. Ptr Ink 126:129-30+ Ja 17 '24

Service

Charting of service data. Soc Auto Eng J 13:527-8 D '23

Durant dealers offering owners new maintenance plan. Automotive Ind 52:532 Mr 19 '25

Durant service is aided by prompt shipment of parts. il plan Automotive Ind 50:768-71 Ap 3 '24

Factories must show dealers how to get profits from service. H. Chase. Automotive Ind 49:1133-6 D 6 '23

Fisher system places body repairs on par with chassis service. W. L. Carver. il Automotive Ind 50:572-4 Mr 6 '24

How engineers can cooperate to make flat-rate service a success. J. W. Lord. Soc Auto Eng J 14:20-2 Ja '24; Same cond. Automotive Ind 49:1151 D 6 '23

Joint service meeting of the National automobile chamber of commerce and the Society of automotive engineers, Cleveland, Nov. 18-19. Automotive Ind 51:920-3 N 27 '24; Bus Transportation 3:579-81 D '24

Maintenance and flat repair-rates. C. D. Prinz. Soc Auto Eng J 16:6 Ja '25

Maintenance men urged to discontinue giving free service discussed at National automotive service convention. Automotive Ind 50: 1175-80 My 29 '24; Soc Auto Eng J 14:575-7 Je '24

Modern motor-car service-system. H. N. Davock. Soc Auto Eng J 15:562-6; Discussion. 478 D '24

National automotive service convention and maintenance equipment shop in Detroit, May 20 to 23. Soc Auto Eng J 16:553-7 Je '25

New tools and better methods shown at service show and convention in Detroit. il Automotive Ind 52:944-7 My 28 '25

Preventive measures advocated at service convention of the National automobile chamber of commerce. Bus Transportation 4:301 Je '25

Providing the engineer with service data. O. T. Kreusser. chart Soc Auto Eng J 14: 63-7 Ja '24

Service. W. L. Wise. Soc Auto Eng J 14:274-6+ Mr '24

Service evils. C. F. Kettering. Soc Auto Eng J 13:523-4 D '23

Service must be fundamental part of automotive organization. W. L. Carver. Automotive Ind 49:1083-7 N 29 '23

See also Automobile service stations; Automobiles—Electric equipment service; Motor truck industry and trade—Service

Statistics

American vs. European automobiles in world trade. Econ W n s 30:586-7 O 24 '25

Auto output shrinks. Bradstreet's 52:477 Jl 26 '24

Automobiles; production, shipments, exports, taxes, 1921-1924. Survey of Cur Business 30: 87 F; 32:52-4 Ap '24

Automotive exports for the first quarter of 1925; tabulation. Automotive Ind 52:953 My 28 '25

Cars and trucks in use totaled 17,740,236 on Dec. 31, 1924. D. G. O'Connor. Automotive Ind 52:93-5 Ja 15 '25

Cars selling for less than $1,000 81.6 per cent of 1923 output. R. B. Prescott. Automotive Ind 50:371-7 F 21 '24

18,241,477 cars and trucks in use throughout the world. map Automotive Ind 50:382-7 F 21 '24

Higher priced cars hold up well in 1924 production. Automotive Ind 52:336-42 F 26 '25

Less automobile production. Iron Age 116:840 S 24 '25

Motor vehicles. Blast F & Steel Pl 12:514-15 N '24

Small makers record gains in production during depression period. Automotive Ind 51: 477-8 S 11 '24

3,634,272 motor vehicles are in use outside United States; world total now is 31,360,779. map Automotive Ind 52:343-7 F 26 '25

Used cars

California protests used car sales plan. Automotive Ind 53:159 Jl 23 '25

Co-operative used car market divorces old from new. R. Alden. il Forbes 13:386-8 Ja 5 '24

Dodge bros. used car plan educates dealers as well as public. Automotive Ind 50:1376-8 Je 26 '24

Financing the sale of used cars. B. Davenport. il Am Bankers Assn J 17:741-2+ Je '25

Fixing of used car price frowned upon. Automotive Ind 50:531 F 28 '24

Ford launches used car policy. Automotive Ind 52:637+ Ap 2 '25

Ford tackles the second-hand problem. Ptr Ink 131:100-1 Ap 16 '25

Ford's letter to his dealers on used cars. Automotive Ind 52:820 My 7 '25

General used car market report. General used car bur., Detroit '24

How to handle a prospect with a used car to trade in. B. Baker. Am Exporter 95:89+ O '24

Relation of the engineer to the used-car problem; abstracts. Soc Auto Eng J 13:520-1 D '23; Automotive Ind 50:12-14 Ja 3 '24

Used car stocks must be considered in future production programs. A. V. Comings. Automotive Ind 52:896-8 My 21 '25

Used cars can be made dealer's biggest asset. E: Payton. Automotive Ind 50:327-9 F 14 '24

AUTOMOBILE Industry and trade—Used cars —*Continued*
Using new-product methods to sell trade-ins. B. F. Berfield. Ptr Ink 132:64+ Jl 2 '25

Australia

Chief problems of Australian dealers are used cars and deliveries. Automotive Ind 49: 1102-3 N 29 '23

Austria

Aus der österreichischen kraftfahrzeug-industrie. J. Zoller. il diags Zeit Ver Deutsch Ing 68:243-5 Mr 8 '24

Belgium

Automobile industry in Belgium shows steady growth. Automotive Ind 53:132 Jl 23 '25

Canada

Canadian automobile industry in 1923. Econ W n s 28:483 O 4 '24
Canadian exports; tabulation. Automotive Ind 50:471; 52:432-3 F 21 '24, F 26 '25
Canadian production was 145,357 in 1923. Automotive Ind 50:687 Mr 20 '24

Cuba

Cuba seen as market for 250,000 new motor vehicles. il Automotive Ind 53:284-5 Ag 20 '25
Motor car trade benefits from cooperation. il Am Exporter 95:81+ O '24
Salesmanship + service=car sales. il Am Exporter 95:83+ Jl '24

Denmark

What promise do Danish and Norwegian markets hold for automobiles? B. Jacobson. Automotive Ind 51:241 Jl 31 '24

Egypt

Gradual expansion of Egyptian market for automotive products likely. E. C. Petrie. Automotive Ind 51:527-8 S 18 '24

Europe

Car makers abroad seek to regain foreign markets. P. Owen. Automotive Ind 52:228-9 F 5 '25
Europe's automotive market 1924. Am Ind 24:37+ F '24

Far East

Aggressive methods needed to develop more sales in Orient. il Automotive Ind 53:50-2 Jl 9 '25

France

French automobiles and American machine tools. Am Mach 59:784g N 22 '23

Germany

Der automobilbau als bedarfsindustrie. G. Becker. il diags Zeit Ver Deutsch Ing 69: 369-75, 441-6 Mr 21, Ap 4 '25
Economic difficulties hinder German automotive industries. Automotive Ind 50:1328 Je 19 '24
German automobile dealers welcome lifting of embargo. Automotive Ind 50:873-5 Ap 17 '24
German automobile industry. il diags Automobile Eng 15:44-7 F '25
German automotive industry faces fight for existence. H. Dechamps. Automotive Ind 52:470-1 Mr 5 '25
German metal workers' federation study of the German automobile industry. A. Maylander. Monthly Labor R 20:463-80 Mr '25
German passenger car and chassis exports; tabulation. Automotive Ind 50:475 F 21 '24
Merged plants start German production. Automotive Ind 52: 247 F 5 '25
New German tariff affects U.S. motors. Automotive Ind 53:79, 117 Jl 9-16 '25

Great Britain

Abolished automobile duties have little effect on English imports. E. C. Petrie. Automotive Ind 52:265 F 12 '25
Britain buys small cars from necessity, not from choice. H. Tipper. Automotive Ind 51: 479-80 S 11 '24
British buyers still consider cars as luxuries. H. Tipper. Automotive Ind 51:605-6 O 2 '24
British car makers fight to hold home markets. H. Tipper. Automotive Ind 51:280-1 Ag 7 '24
British colonial motor trade. Engineering 116: 807-8 D 28 '23
British exports; tabulation. Automotive Ind 50:476-7; 52:433-4 F 21 '24, F 26 '25
British motor manufacturing companies. Economist 98:951-3 My 10 '24
How English methods of selling automobiles differ from ours. H. Tipper. Automotive Ind 51:442-3 S 4 '24
Motor industry. Economist 101:609-10 O 17 '25
Motor industry the busiest in England. H: Maybury. Automotive Ind 53:406-8 S 10 '25
Motor manufacturing profits. Economist 100: 899-900 My 9 '25
Motor output. Economist 100:801 Ap 25 '25; Same. Econ W n s 29:839 Je 13 '25
Problems of the British industry. H. L. Horning. Soc Auto Eng J 14:85-6 Ja '24
Repeal of the motor duties. Economist 98: 946-8 My 10 '24
Revival of British duties unlikely to hurt U.S. exports. Automotive Ind 52:984-5 Je 4 '25

See also Rolls-Royce, limited

Hungary

Automotive trade and industry of Hungary. W. S. Reineck. U S Bur For & Dom Com Trade Information Bul 339:1-13 '25

Latvia

Automotive market in Latvia is small but worth cultivating. E. C. Petrie. Automotive Ind 49:1218-19 D 13 '23

Mexico

What to avoid when you start out after Mexican business. R. McDaniel. Sales Management 8:517-18+ Ap 4 '25

Michigan

Minors in automobile and metal-manufacturing industries in Michigan. 131p U. S. Children's bur., Washington '23

Mozambique

Wider introduction of motor transport needed in Mozambique. Automotive Ind 51:1048 D 18 '24

Netherlands

Automobile in Holland. H: L. Geissel. il Automotive Ind 52:672 Ap 9 '25

New Zealand

New Zealand motor market is improving. Automotive Ind 53:224-5 Ag 6 '25

Norway

What promise do Danish and Norwegian markets hold for automobiles? B. Jacobson. Automotive Ind 51:241 Jl 31 '24

Peru

Motor transport urged in Peru. S. L. Leonard. il Automotive Ind 52:554 Mr 19 '25

Philippine Islands

Philippine Islands offer good market in 1924. W. Robb. il Automotive Ind 50:514-17 F 28 '24

South Africa

South Africa needs cheaper petrol, buses, good roads and better servicing. M. Edward. il Automotive Ind 52:198-9 Ja 29 '25

Southern states

The land of cotton—nation's greatest untapped market. H. F. Podhaski. il Automotive Ind 52:548-50 Mr 19 '25
Motor vehicles and highway development in the South. Manuf Rec 86:281-2 pt 2 D 11 '24
Southern farmers want motor vehicles for business use. R. H. Bethea. Automotive Ind 50:506-7 F 28 '24

AUTOMOBILE industry and trade—*Continued*

Sweden

Good weather and better service needed to increase Swedish sales. B. Jacobson. Automotive Ind 51:361 Ag 21 '24

Tropics

Designing for the colonial market. Automobile Eng 14:233-4 Ag '24

Requirements of the colonial market. F. A. S. Acres. Automobile Eng 14:213-17 Jl '24; Abstract. Automotive Ind 51:286-90 Ag 7 '24

Turkey

Turkey as a market for the automobile. il Automotive Ind 52:748-9 Ap 23 '25

United States

All records broken by automotive export business. Am Mach 62:294b F 12 '25

And what of the motor car industry? A. Macauley. il Nation's Business 13:46+ Ja '25

Auto registrations are slowing down, mid-year survey shows. V. B. Guthrie. Nat Pet N 17:17-18 Jl 22 '25

Automobile industry. N. D. Shidle. Automotive Ind 50:86-9, 599-602, 1207-8; 51:189-91, 793-5, 1033-4; 52:253-5, 567-8, 687-9, 807-9; 53:205-6, 567-9 Ja 10, Mr 13, Je 5, Jl 24, N 6, D 18 '24, F 12, Mr 26, Ap 16, My 7, Ag 6, O 1 '25

Automobile industry; methods that have revolutionized manufacturing. W: J. Showalter. Monthly Labor R 17:1015-16 N '23

Automobile industry shows improvement. Dun's R 32:8-9+ S 6 '24

Automobile production and shipments gain. Dun's R 33:10-11+ Ap 11 '25

Automobile production since 1910. Mach 30: 964 Ag '24

Automobile registration, fees and gas tax. Eng & Contr (R & S) 63:1243 Je 3 '25

Automotive industry and the nation's prosperity. W. P. Chrysler. Annalist 22:760 D 10 '23

Battery exports and car imports increase. Automotive Ind 50:527 F 28 '24

Car and truck exports totaled nearly 400,000 during the year 1924. G. E. Quisenberry. Automotive Ind 52:425 F 26 '25

Closed car output expected to reach 39 per cent of total in 1924. N. G. Shidle. Automotive Ind 50:703-4 Mr 27 '24

Defining saturation point. P. M. Heldt. Automotive Ind 51:897 N 20 '24

Department of agriculture's statistics of motor vehicle registrations in the United States in 1924. Econ W n s 29:484 Ap 4 '25

Distribution. Soc Auto Eng J 16:396-7 Ap '25

Downward trend of prices in automobile industry. Comm & Fin Chr 117:2047 N 10 '23

Expansion occurs in automobile industry. Dun's R 33:10-11+ Ag 8 '25

Export automobile basis for 1925 progress. A. Reeves. Annalist 25:24-6 Ja 5 '25

Export parts sales likely to break record in next six months. G: E. Quisenberry. Automotive Ind 51:411-14 Ag 28 '24

Exports of cars, trucks and tires for September, 1924. Automotive Ind 51:898-9 N 20 '24

Facts and figures of the automobile industry. 96p National automobile chamber of commerce, 366 Madison av., New York '24

Favorable outlook in automobile industry. Dun's R 33:14+ Ja 10 '25

Final registration figures show 15,222,658 cars and trucks in United States. Automotive Ind 50:387-91 F 21 '24

First quarter sales near record but behind expectations. J. Dalton. map Automotive Ind 50:953-5+ My 1 '24

Ford in 1924 sold 2,213,928 units. Automotive Ind 52:203 Ja 29 '25

459,000 increase in motor vehicle registration. Eng & Contr (R & S) 62:765-6 O 1 '24

Fundamental factors in future of the automobile industry. A. Reeves. Annalist 23: 25+ Ja 7 '24

Future of the automobile industry. A. Macauley; E: S. Jordan; and A. P. Sloan, jr. Mach 31:372-3 Ja '25

General statistics of the American automobile industry in 1923. Econ W n s 27:47 Ja 12 '24

General statistics of the American automobile industry in 1924. Econ W n s 29:52 Ja 10 '25

Growth of the motor industry. Ry R 77:50 Jl 11 '25

Have we enough automobiles? Comm & Fin 13:1118 Je 11 '24

Industry shifting into high as first quarter ends. J: C. Gourlie. Automotive Ind 52: 607-8 Ap 2 '25

Large business in automobiles expected. Dun's R 32:8-9+ My 10 '24

"Most of the pie is eaten;" distribution of automobiles in United States reaching saturation point. diag Aera 12:2028-33 Jl '24

Motor companies. Moody's Inv Serv 17:138 Ap 23 '25

Motor industry fares well at hands of 68th Congress. H. L. Cobb. Automotive Ind 52: 620-1 Ap 2 '25

Motor profits in 1924. Nat City Bank p 84-6 My '25; Same. Econ W n s 29:694-5 My 16 '25

Motor stocks. Moody's Inv Serv 17:297-8 S 10 '25

Motor transportation in the United States. Bradstreet's 53:401 Je 20 '25

Motor vehicle registration 15,092,177. A. P. Anderson. Pub Roads 5:14-17 Ap '24

Motor vehicle registration shows total of 15,092,177. Eng N 92:590-1 Ap 3 '24

Motor vehicles in use in the United States in 1924. Econ W n s 29:119 Ja 24 '25

Motor vehicles now number 17,000,000. Manuf Rec 87:99-100 Ja 1 '25

New export classifications put in force. Automotive Ind 50:977 My 1 '24

New record in auto exports—shipments in 1923 from United States and Canada. Comm & Fin Chr 118:851 F 23 '24

1924 income statements show profits don't follow production line. N. G. Shidle. Automotive Ind 52:487-8+ Mr 12 '25

1925 metal market outlook does not justify lower car prices. W: C. Hirsch. Automotive Ind 51:1082-3 D 25 '24

1925 most significant year in history of automobile industry. C. A. Vane. Automotive Ind 53:189 Jl 30 '25

1925-35 the critical period for the increase in passenger automobiles. Annalist 25:775 Je 8 '25

Outlook for the automobile industry for the coming year. Moody's Inv Serv 17:33-6 Ja 22 '25

Over 15,000,000 motor vehicles registered in 1923. Eng & Contr (R & S) 61:1015-16 My 7 '24

Passenger car exports from 1918 to 1923; tabulation. Automotive Ind 50:466-7 F 21 '24

Passenger car exports from 1922 to 1924. Automotive Ind 52:426-7 F 26 '25

Present position of the automobile industry. R. B. Prescott. Annalist 26:51-2 Jl 17 '25

Production of automobile vehicles in the United States in December and during 1923. Econ W n s 27:158 F 2 '24

Production of automobile vehicles in the United States in December and during 1924. Econ W n s 29:157-8 Ja 31 '25

Records established in automobile trade. Dun's R 32:14+ Ja 12 '24

Registrations totaled 15,523,898 on July 1, 1924. D. G. O'Connor. Automotive Ind 51:139-43 Jl 17 '24

Saturation-point for motor cars pushed ahead to 27,000,000. L. P. Ayres. Soc Auto Eng J 16:195-6+ F '25; Same. Iron Tr R 76:446-8 F 12 '25; Same. Econ W n s 29:403-5 Mr 21 '25; Abstract. Automotive Ind 52:105-6 Ja 15 '25

17,726,507 motor vehicles in country, final figures show. D. G. O'Connor. Automotive Ind 52:348-52 F 26 '25

Some facts on the automobile industry for 1923. Manuf Rec 85:72 Ja 10 '24

AUTOMOBILE industry and trade—United States—*Continued*
Spring demand holding up longer than in former years. J: C. Gourlie. Automotive Ind 52:1047-8+ Je 18 '25
State registration data do not give true picture of cars in use. J: W. Scoville. Automotive Ind 53:61-2 Jl 9 '25
Strongly fortified, industry set for any emergency. J. Dalton. Automotive Ind 50:803-5 Ap 10 '24
Tendances actuelles de la construction automobile aux Etats-Unis. G. Delanghe. il diags Génie Civil 84:321-4 Ap 5 '24
Tendencies in the automotive industry. W. P. Chrysler. Bankers M 109:11-14 Jl '24
Trends in the automotive industry. Index p 11-13 Ag '25
U. S. places value on motor vehicles at $4,567,407,000. Automotive Ind 52:165 Ja 22 '25
Vehicle exports this year will go over half-million mark. Automotive Ind 53:441-2 S 17 '25
When you leave out the Fords. W. P. Chrysler. Am Ind 24:9-10 My '24
Where is the profit line going? J. H. Collins. Automotive Ind 51:509-11 S 18 '24
World spends over $3,000,000,000 for autos in 1924. Eng & Contr (R & S) 64:328 Ag 5 '25

See also Motor truck industry and trade—United States; *also* National automobile chamber of commerce

AUTOMOBILE insurance. See Insurance, Automobile

AUTOMOBILE laws and regulations
A. B. C.'s of automobile law of Washington. H. W. Dunphy, comp. 148p H. W. Dunphy, Spokane '24
Automobile theft problem and the certification of automobile titles; abstracts. Econ W n s 27:636-8 My 3 '24; Automotive Ind 50:1119-22 My 22 '24
Case for the driver's license law. R. B. Stoeckel. Nat Safety N 10:31-3 N '24
How to take away market for stolen cars. Automotive Ind 50:1063-4 My 15 '24
Law of automobiles. C. P. Berry. 4th ed. 1793p Callaghan & co., Chicago '24
Law of automobiles. X. P. Huddy. 7th ed. 1521p M. Bender & co., Albany '24
Making highways safe for democracy. G: M. Graham. Soc Auto Eng J 15:371-3 N '24
New plan for traffic laws; it is stops, not speeds, that matter. H. W. Slauson. il Sci Am 132:296-8 My '25
Proceedings of a conference on motor vehicle traffic. R: S. Kirby, ed. 179p Yale univ. press, New Haven '24
Protective measures for the automobile and its owner. E. A. Baughman. Ann Am Acad 116:194-8 N '24
Question of compulsory liability insurance for motor vehicles. W. E. Monk. Econ W n s 28:201-3 Ag 9 '24
Recent legislation for the protection of automobile owners against theft. J. P. Chamberlain. Econ W n s 30:201-2 Ag 8 '25
Separating reckless drivers from cars in San Diego. C. L. Chambers. Nat Safety N 11: 12 Ja '25
Status of drivers' license laws. Nat Safety N 11:28 F '25
Study shows striking divergencies in state motor lighting regulations; tabulation. Automotive Ind 53:461-3 S 17 '25
What is safe speed? H. C. Dickinson and C. F. Marvin, jr. diags Soc Auto Eng J 17: 81-6 Jl '25

See also Automobile parking; Motor vehicles—Law; Traffic regulations

AUTOMOBILE lighting. See Automobiles—Lighting

AUTOMOBILE locks
Locks—coincidental and otherwise. H. Chase. Automotive Ind 53:330-2 Ag 27 '25

AUTOMOBILE lubrication stations
Catering to the oiling and greasing business exclusively. P. Truesdell. il Nat Pet N 17: 55-6+ F 4 '25

AUTOMOBILE mechanics
Training mechanics. J: Younger. Soc Auto Eng J 15:479-80 D '24

AUTOMOBILE parking
Automobile parking problem; text of the report and recommendations made by the Committee of the New York state conference of mayors and other city officials. Aera 12:2051-7 Jl '24
Baltimore's parking problem. diags Pub Works 55:46-7 F '24
Building-arcades afford motor-vehicle loading and parking facilities. F. S. Besson. il Soc Auto Eng J 15:105 Jl '24
Controlling automobile parking in Portland, Maine. map Eng N 95:261 Ag 13 '25
Have we enough highway floor space? A. Reeves. il Nation's Business 12:30-1 D '24
Mayors would forbid parking; report of committee of New York state conference of mayors. Aera 12:1874-5 Je '24; Abstract. Elec Ry J 63:908 Je 7 '24
New parking plan suggested in Boston. Elec Ry J 66:139 Jl 25 '25
Parking automobiles. J: Ihlder. Pub Works 54: 362 N '23
Parking cars in cities; staggered floor garages with short ramps offer a solution to a big problem. il diag plan Bldg Age 47: 120-1 S '25
Parking hurts merchants. J. P. Leonard. Aera 13:1017-19 Ja '25
Parking may be barred on eleven streets in Los Angeles. Elec Ry J 63:749 My 10 '24
Parking problem solutions. Eng & Contr (R & S) 61:1227-8 Je 4 '24
Parking tower to save street space. il Eng N 95:277 Ag 13 '25
Philadelphia rapid transit company establishes a second parking area. il Elec Ry J 66:755 O 24 '25
Reconstructed gutter section provides additional parking space. diag Eng N 94:892 My 28 '25
Relieving the shopper of parking worries. il System 48:496+ O '25
Some suggestions for municipal traffic relief. H. W. Slauson. Munic Eng 65:162-5 O '23; Same. Eng & Contr (R & S) 60:976-8 N 7 '23; Same cond. Automotive Ind 49:564-5+ S 20 '23
Storage of dead vehicles on roadways. W: P. Eno. Ann Am Acad 116:169-74 N '24
Underground parking places. il Am Arch 127: 522 Je 3 '25
Where can I park my car? F. C. Kelly. Nation's Business 12:26-8 Je '24
Where do your workmen park their cars? M. Droke. il Factory 34:753-4+ My '25
Where shall he park it? il Nat Safety N 9: 17-18 F '24
Where shall the shopper park? L. Rothschild. Nation's Business 13:21-3 N '25
Widen street traffic lane by sidewalk parking. J. R. Bibbins. il Eng N 92:718 Ap 24 '24

See also Automobile laws and regulations

AUTOMOBILE parts
Durant service is aided by prompt shipment of parts. il plan Automotive Ind 50:768-71 Ap 3 '24
Effective control of parts distribution worked out by General Motors of Canada. Automotive Ind 53:328-9 Ag 27 '25
Exports of automotive parts, 1912-1923; tabulation. Automotive Ind 50:470 F 21 '24
Exports of automotive parts, 1913-1924 (exclusive of engines and tires). Automotive Ind 52:430 F 26 '25
General Motors of Canada's new parts plan sweeps precedents aside. D. Blanchard. Automotive Ind 53:133-5 Jl 23 '25
Grinding Chrysler motor parts. Am Mach 61: 808 N 20 '24
Higher quality products due in part to better cleaning methods. il Automotive Ind 53:503-5 S 24 '25
Jigs for irregular-shaped automobile parts. J. G. Moohl. diags Mach 32:133-6 O '25

AUTOMOBILE parts—*Continued*
Motor and accessory manufacturers' association annual convention, Cleveland, Oct. 15-18. N. G. Shidle. Automotive Ind 51:709-19 O 23 '24
Parts makers' profits this year ahead of 1924 by wide margin. Automotive Ind 53:241-2 Ag 13 '25
Parts makers see better business in last half of 1924. N. G. Shidle. Automotive Ind 51: 229-30 Jl 31 '24
Parts manufacturers exhibit new products. diags Automotive Ind 50:81-4 Ja 10 '24
Press work and welding combined in parts manufacture. L. S. Love. il Automotive Ind 53:704-6 O 22 '25
Profits in the parts business—what can be done about it? N. G. Shidle. Automotive Ind 51:685-6 O 16 '24
Sand blasting cuts cost of cleaning many kinds of automotive parts. P. M. Heldt. il diags Automotive Ind 52:142-6 Ja 22 '25
Sheet-steel automobile parts. J: Younger. il Am Mach 62:605-7, 951-4 Ap 16, Je 18 '25
Sheet steel fabrication. S. Smith. il Soc Auto Eng J 17:389-97 O '25; Same, without il. Am Mach 63:543-5 O 1 '25
This re-order system acts as a perpetual inventory. C. M. Harrison. Ptr Ink M 10:64+ Je '25
Using automobile parts in machine construction. D. A. Hampson. diags Mach 32:127-9 O '25
Wealth of new parts and accessories shown in attractive setting. D. G. O'Connor. il diags Automotive Ind 52:68-71 Ja 8 '25
When is a pirate part? Soc Auto Eng J 15: 369-70 N '24
Why shouldn't we pay more for parts? N. G. Shidle. Automotive Ind 50:1311-13 Je 19 '24

See also National automotive parts association

AUTOMOBILE parts, Interchangeable
Rickenbacker; many parts of vertical "8" now interchangeable with "6". Automotive Ind 53:18-19 Jl 2 '25

AUTOMOBILE racing
American cars prove they are match for fastest in Europe. W. F. Bradley. il Automotive Ind 53:628-9 O 8 '25
Americans' place in Italian Grand Prix. Automotive Ind 53:434 S 10 '25
Building racing cars; an interview with Fred Duesenberg. J: Younger. il diags Am Mach 63:315-16 Ag 20 '25
Duesenberg relates experiences; supercharger and other racing-car features discussed. Soc Auto Eng J 15:285-6 O '24
400 horsepower racer built to beat world's mile speed record. W. F. Bradley. il Automotive Ind 51:407 Ag 28 '24
Four-wheel brakes and low pressure tires prove worth in Grand Prix. W. F. Bradley. il Automotive Ind 51:364-5 Ag 21 '24
Les Grands prix de tourisme et de vitesse de L'automobile-club de France, en 1925. il plan Génie Civil 87:131-4 Ag 8 '25
Guyot to try for victory at Indianapolis with sleeve valve motor. il diags Automotive Ind 52:773-5 Ap 30 '25
Lorraine-Dietrich wins stock car road race at Le Mans. W. F. Bradley. il Automotive Ind 53:104-5 Jl 16 '25
Mercedes with supercharger engine wins Sicilian classic. W. F. Bradley. il Automotive Ind 50:1116-18 My 22 '24
New speed marks are set at Indianapolis. S. Shelton. il Automotive Ind 52:970-2 Je 4 '25
122 cu. in. engines make brilliant record at Indianapolis. S. Shelton. il Automotive Ind 50:1211-12 Je 5 '24
Reliability is outstanding characteristic of cars in this year's race. P. Dumas. il Automotive Ind 50:1213-15 Je 5 '24
Straight eight, supercharged car wins Grand Prix, 503 mile race. W. F. Bradley. il Automotive Ind 51:276-9 Ag 7 '24
Supercharged cars take all honors in French Grand Prix. W. F. Bradley. il Automotive Ind 53:252-4 Ag 13 '25
Two cars with front-wheel drive among the entries at Indianapolis. il Automotive Ind 52:894-5 My 21 '25
Unique body designs featured at French Grand Prix for touring models. il Automotive Ind 51:371-2 Ag 21 '24

See also Autodromes

AUTOMOBILE research
Bearing of research department work on car developments. H. L. Horning. Soc Auto Eng J 17:189-91; Discussion. 191 Ag '25
Cross-examining the automobile. A. C. Lescarboura. il Sci Am 131:8-9+ Jl '24
Ever-growing field for research. E: P. Warner. Automotive Ind 52:1088-91 Je 25 '25
Instruments for automotive research. J: A. C. Warner. Soc Auto Eng J 16:468-70 Ap '25; Discussion. 16:609-17 Je '25
Research. W. R. Ormandy. Automobile Eng 14:372-5 N '24
Research activities in 1924. Soc Auto Eng J 16:161-2 F '25
Research men see instrumentation progress. il Automotive Ind 52:183-5 Ja 29 '25
Riding-qualities research. J: A. C. Warner. il diags Soc Auto Eng J 15:75-81 Jl '24; Discussion. 15:556-61 D '24
S.A.E. report shows progress in riding quality, fuel and highway research. Automotive Ind 51:444-5 S 4 '24
Some new electrical instruments for automotive research. J. H. Hunt and G. F. Embshoff. bibliog il diags Soc Auto Eng J 16: 444-55 Ap '25
Work being done by the automotive powerplants section of the Bureau of standards. Soc Auto Eng J 16:13 Ja '25

AUTOMOBILE resistance
Effect of tire resistance on fuel consumption. W. L. Holt and P. L. Wormeley. U S Bur Stand Tech Pa 283:213-23 '25; Same cond. Automotive Ind 52:902-4 My 21 '25
Rolling-resistance of motor vehicles. Soc Auto Eng J 17:229-30 S '25
Tunnel built to determine air resistance of automobiles. Automotive Ind 51:33 Jl 3 '24
Wind resistance on motor vehicles. L. E. Conrad. Nat Research Council Bul v 8, pt 1: 35-8 Mr '24

AUTOMOBILE roads. See Roads, Automobile

AUTOMOBILE service stations
Automobile service plant. il plan Bldg Age 47:108-9 Ap '25

See also Automobile engines—Repair; Garages; Gasoline service stations

Equipment
Gas plays a big part in the automobile repair business and in service stations. W: H. Matlack. diags Am Gas J 121:816+ S 6 '24
Packard recommends special service equipment for its dealers. D. Blanchard. il Automotive Ind 51:322-3 Ag 14 '24
Special tools aid service stations to profit on flat rate. il Automotive Ind 50:518-19 F 28 '24

See also Service equipment associates

Management
Budget system as an aid to service-station management. J. E. Mills. charts Soc Auto Eng J 17:280-6 S '25
Courtesy plus—and a $1,750,000 business; Ford service and sales station. A. Coombs. il System 46:48-51 Jl '24
Definite-price plan. F: P. Rudolph. Soc Auto Eng J 16:394-5 Ap '25
Operation and advantages of the piece-work automobile service-system. W: G. Gow. Soc Auto Eng J 17:161-2 Ag '25
Outline of the flat-rate system. H. T. Pierce and P. U. Holloway. Soc Auto Eng J 16: 394 Ap '25
Training repair shop personnel. J. F. McDonald. Soc Auto Eng J 17:202-4 Ag '25

AUTOMOBILE signals
Requirements for an effective stop signal. il diag Am Inst E E J 43:384 Ap '24

AUTOMOBILE signals—*Continued*
Speed controlled automatically or no power; magnetic apparatus placed on cars and in roadbed. C: Adler, jr. Safety Eng 49:113-15 Mr '25

AUTOMOBILE steel. See Steel, Automobile

AUTOMOBILE terminals
Project for lake front development of the city of Chicago; automobile terminal. E. Saarinen. plans Am Arch 124:494-500 D 5 '23

AUTOMOBILE tires. See Tires, Automobile

AUTOMOBILE touring
Automobile and the pioneer. W: J. Showalter. Ann Am Acad 116:21-5 N '24
Long-distance touring. Soc Auto Eng J 17:228-9 S '25
On the road. J. M. Bird. il Sci Am 131:77-9+ Ag '24
Selling tips from the broad highway. B. Avery. Ptr Ink 132:143-4+ Ag 20 '25
Tourist traffic and Canadian roads. J. B. Harkin. Can Eng 47:321-2 S 9 '24; Same cond. Eng & Contr (R & S) 62:756-7 O 1 '24

See also Camps, Tourists'

Canada

Motor vehicle and the highway. chart Can Eng 49:319-20 S 15 '25

AUTOMOBILE traffic. See Road traffic; Street traffic

AUTOMOBILES
America may have to build small cars to meet competition abroad. N. G. Shidle. Automotive Ind 53:707 O 22 '25
Armstrong-Siddeley "14". M. W. Bourdon. il Automotive Ind 53:20-1 Jl 2 '25
Austin seven horsepower model has frameless body. M. W. Bourdon. il diags Automotive Ind 51:674-7 O 16 '24
Autocraft. R. A. Engelman. 188p Am. automobile digest, Cincinnati '23
Der automobilbau als bedarfsindustrie. G. Becker. il diags Zeit Ver Deutsch Ing 69:369-75, 441-6 Mr 21, Ap 4 '25
Automobile handbook. L. E. Brookes. Rev. ed., enl. 706p Drake '24
The automobile: its province and its problems. Ann Am Acad 116:1-279 N '24
Automobiles of yesterday and today. il Automotive Ind 51:726-7 O 23 '24
Automotive construction and operation. J: C. Wright and F. C. Smith. 446p Wiley '24
Bentley has 397 cu. in. motor, 144 in. wheelbase. Automotive Ind 53:171 Jl 30 '25; Mech Eng 47:753-4 S '25
Benz new 6-cylinder 40-hp. car. B. R. Dierfeld. il diags Automotive Ind 50:332-6 F 14 '24
Book of motors. W. G. Aston. 223p Spon '24
British firm introduces popular priced, 9-hp. four; new Rover model. il Automotive Ind 50:1387 Je 26 '24
Buick adds a new six to its line with slight changes in design. il diags Automotive Ind 51:92-5 Jl 10 '24
Buick announces 1926 line and cuts prices $25 to $730. L. S. Gillette. il Automotive Ind 53:165-9 Jl 30 '25
Cadillac coach introduced all over the country at the same time. il Automotive Ind 52:27 Ja 1 '25
Cadillac entirely redesigned; chassis 250 lb. lighter; prices lowered. W. L. Carver. il Automotive Ind 53:172-6 Jl 30 '25
Car is built by the Julian Brown development corp., Syracuse, N.Y. il Automotive Ind 52:988-9 Je 4 '25
Cars of 1924. V: W. Pagé. il Sci Am 130: 6-9+ Ja '24
Chandlers 1926 have two-tone finish and nickel radiator bars. L. S. Gillett. il Automotive Ind 53:47-8 Jl 9 '25
Chevrolet radiator and headlights changed; truck redesigned. il Automotive Ind 53:265-6 Ag 13 '25
Chevrolet redesigns engine and changes frame and spring arrangement. W. L. Carver. il Automotive Ind 52:9-12 Ja 1 '25
Chrysler four. L. S. Gillette. il Automotive Ind 53:5-7 Jl 2 '25
Chrysler six appears with seven bearing crankshaft. il Automotive Ind 49:1290-2 D 27 '23
Chrysler "6" engine enlarged to take care of increased weight. il Automotive Ind 53:126-7 Jl 23 '25
Cleveland model has centralized chassis lubricating system. il diags Automotive Ind 50:1314-18 Je 19 '24
Cleveland's two new body models have six cylinder engines. D. Blanchard. il diags Automotive Ind 52:296-8 F 19 '25
Counterweighted crankshaft among new Cunningham features. D. Blanchard. il diags Automotive Ind 52:1049-51 Je 18 '25
Les 2e et 3e traversées du Sahara en automobile; les voitures Renault à six roues jumelées. G. Delanghe. il diags map Génie Civil 84:293-7 Mr 29 '24
Developments now under way will mean better motor car performance. J. E: Schipper. Automotive Ind 50:504-5 F 28 '24
Duesenberg race car resembles stock product in many particulars. B. M. Ikert. il diags Automotive Ind 51:156-60 Jl 17 '24
Elcar; with eight-in-line engine. Automotive Ind 51:372 Ag 21 '24
Elgin has automatic gear shift and four-wheel brakes. il diag Automotive Ind 49: 1106-7 N 29 '23
Europe has taken to the light car—could a field be developed for it in America? N. G. Shidle. Automotive Ind 53:67-8 Jl 9 '25; Discussion. 53:262 Ag 13 '25
Fiat small 4-cylinder in production. W. F. Bradley. il Automotive Ind 52:770-1 Ap 30 '25
Fiat will concentrate sales effort in America on its new valve-in-head six. il diags Automotive Ind 52:96-8 Ja 15 '25
First twenty-five years of the horseless age. H. McLellan. il Forbes 16:444-6+ Jl 1 '25
The Ford as a racing car. P. W. Cornelius. 91p P. W. Cornelius, Indianapolis '24
Ford changes announced. il Automotive Ind 53: 325-6 Ag 27 '25
Ford text book. E: F. Hallock. 263p American automobile digest, Cincinnati '25
Four-wheel brake adoptions generate sharp discussion in England. M. W. Bourdon. il diags Automotive Ind 49:1051-7 N 22 '23
Franklin increases power 33 per cent by changes in air cooling system. P. M. Heldt. il diags Automotive Ind 51:101-3 Jl 10 '24
Franklin's appearance greatly altered by new body design. P. M. Heldt. il diags Automotive Ind 52:451-4 Mr 5 '25
French makers are building small cars on increasing scale. W. F. Bradley. Automotive Ind 53:674 O 15 '25
Gardner completes line for 1926 with two models. il Automotive Ind 53:586-7 O 1 '25
Gardner eight-in-line production begins with one closed and one open model. il Automotive Ind 52:30 Ja 1 '25
Gasoline automobile. G: W: Hobbs and B. G. Elliott. 3d ed. 513p McGraw-Hill '24
Gray adds three new models to present line. il Automotive Ind 50:25 Ja 3 '24
Hansa-Lloyd German straight eight has aluminum engine. il diags Automotive Ind 50: 1111-15 My 22 '24
Holle four-wheel-driving-and-steering motor car. il diags Engineer 136:666-8, 670 D 21 '23
Hudson announces six-cylinder Essex car. il Automotive Ind 49:1191-3 D 13 '23
Hupmobile eight-in-line features heavy crank and light pistons and rods. il diags Automotive Ind 52:4-8 Ja 1 '25
Hupp brings out a six. il diags Automotive Ind 53:654-9 O 15 '25
Influence of the automobile on regional transportation planning. G: A. Damon. Am Soc C E Pro 51:636-43 Ap '25; Discussion. 51: 931-2 My '25
Interest focuses on new car announcements. il Automotive Ind 50:78-81 Ja 10 '24
Jewett has new engine, axles and bodies; Paige is changed but little. il diag Automotive Ind 52:20-1 Ja 1 '25

AUTOMOBILES—*Continued*
Jewett new model is fitted with air cleaner and coincidental lock. L. S. Gillette. il Automotive Ind 53:208-9 Ag 6 '25
Jordan eight, added to lines of sixes, now in production. D. Blanchard. il diags Automotive Ind 51:352-4 Ag 21 '24
Jordan eight—smaller, lighter and lower priced. L. S. Gillette. il diags Automotive Ind 53:570-3 O 1 '25
Kissel adds straight eight models to its line. il Automotive Ind 52:26-7 Ja 1 '25
Locomobile Junior eight model now in production. P. M. Heldt. il diags Automotive Ind 52:690-3 Ap 16 '25
Locomobile makes many detailed changes to lengthen life of car. P. M. Heldt. diags Automotive Ind 51:393-6 Ag 28 '24
Marmon model characterized by changed body lines. B. M. Ikert. il diags Automotive Ind 51:796-8 N 6 '24
Maxwell changes made in the new series cars. Automotive Ind 51:847 N 13 '24
Der Maybach 22/70 PS-personenkraftwagen ohne schaltung. il diags Zeit Ver Deutsch Ing 68:841-8 Ag 16 '24
Mechanical features of commercial cars. Automotive Ind 52:388 F 26 '25
Mercedes; sweeping changes made in new six cylinder. P. M. Heldt. il Automotive Ind 51:845-7 N 13 '24
Model T Ford car, truck and tractor conversion sets, also Fordson farm tractor, construction, operation and repair. V: W. Pagé. rev. ed., enl. 455p Henley '25
Modern motor cars, their construction, maintenance, management, care, driving, and running repairs. A. W: Judge, ed. 3v. Caxton pub. co., ltd., London '24
Morris-Cowley latest 12 hp. model fitted with 4-wheel brakes. M. W. Bourdon. il diag Automotive Ind 53:443-4 S 17 '25
Motor car operation and care. 187p General motors export co., New York '25
My automobile; its operation, care and repair. H. F. Blanchard. 394p U.P.C. book co. '24
Nash adds smaller six and drops four cylinder models. D. Blanchard. il diags Automotive Ind 51:231-6 Jl 31 '24
Nash-built Ajax announced. W. L. Carver. il diags Automotive Ind 52:931-6 My 28 '25
Nash new models show eleven body styles. il Automotive Ind 53:128 Jl 23 '25
New models and mechanical changes numerous. il Automotive Ind 52:54-61 Ja 8 '25
Oakland adopts harmonic balancer, drops five of old models. L. S. Gillette. il Automotive Ind 53:123-5 Jl 23 '25
Oldsmobile increases engine output, adopts chain front end drive. L. S. Gillette. il Automotive Ind 53:243-5 Ag 13 '25
Organisation et fonctionnement des véhicules automobiles. P. Prévost. 792p Dunod, Paris '24
Overland and Willys-Knight add six cylinder models. D. Blanchard. il diags Automotive Ind 52:14-19 Ja 1 '25
Packard adds new coupés and sedans. il Automotive Ind 53:324 Ag 27 '25
Packard adopts four-wheel brakes on single six. diag Automotive Ind 49:1304-5 D 27 '23
Packard single-eight. J. G. Vincent and W. R. Griswold. diags Soc Auto Eng J 13:257-75, 485-9 O, D '23; Discussion. 13:489-92 D '23
Packard spring layout changed; six engine enlarged. il Automotive Ind 52:785-7 Ap 30 '25
Peerless eight—straighter body lines and re-designed engine. D. Blanchard. il diags Automotive Ind 51:875-8 N 20 '24
Phantom 40-50 hp. Rolls-Royce has overhead valves. M. W. Bourdon. il Automotive Ind 52:888-90 My 21 '25
Pierce Arrow announces lighter six with L-head engine. D. Blanchard. il Automotive Ind 51:237-40 Jl 31 '24
Present day cars are good, but they can be made better. H. Chase. Automotive Ind 50: 1-4 Ja 3 '24
Problem of the automobile. Comm & Fin Chr 121:128-30 Jl 11 '25
Race at Indianapolis also victory for balloon tires and superchargers. B. M. Ikert. il Automotive Ind 52:973-4 Je 4 '25
Revere building both four and six cylinder models. B. M. Ikert. il diags Automotive Ind 52:111-13 Ja 15 '25
Rickenbacker; many parts of vertical "8" now interchangeable with "6". Automotive Ind 53:18-19 Jl 2 '25
Rickenbacker six displacement is increased —eight unchanged. il Automotive Ind 52: 22-3 Ja 1 '25
Sedan models of French sport cars have novel lines. il Automotive Ind 50:661 Mr 20 '24
Small high speed engine used in new German car. B. R. Dierfeld. diags Automotive Ind 50:726-30 Mr 27 '24
Stabilization marks 25th anniversary of the automobile. R. Brennan. il Dun's Int R 45: 45-8 Ap '25
Star, selling for $490, leaves Ford price class. il diags Automotive Ind 49:942-5 N 8 '23
Star Six low overall height and light weight model. D. Blanchard. il diags Automotive Ind 53:691-3 O 22 '25
Steady progress but few radical changes recorded in car design. P. M. Heldt. Automotive Ind 52:354 F 26 '25
Studebaker models have pressure lubrication and more power. D. Blanchard. il diags Automotive Ind 51:512-18 S 18 '24
Sunbeam rated at 120 hp. Automotive Ind 52:860 My 14 '25
Supercharged front-drive Alvis racer; abstract. Mech Eng 47:507 Je '25
Templar has four-wheel brakes and 6-cylinder engine. diag Automotive Ind 50:15-16 Ja 3 '24
10-hp. Triumph motor car. diag Engineering 119:223. pl 14 F 20 '25
Tiny cars lead in Europe. A. R. Erskine. Am Ind 25:36 D '24
Velie's line for 1925; five new body designs. D. Blanchard. diags Automotive Ind 51:409-10 Ag 28 '24
What motor transportation has accomplished; 17,500,000 cars in use. Comm & Fin Chr 121: 546-7 Ag 1 '25
What the new models show. P. M. Heldt. Automotive Ind 53:281-3 Ag 20 '25
What the private automobile has brought to transportation. E. M. Walker. Elec Ry J 66:487-8 S 26 '25
What use do owners make of their cars? Nation's Business 12:77 F '24
Wills Sainte Claire six has overhead valves and overhead camshaft. il Automotive Ind 52:24-5 Ja 1 '25
World peace—will the automobile help to bring it nearer? N. G. Shidle. il Automotive Ind 53:246-9 Ag 13 '25

See also Automobile engines; Automobile industry and trade and other headings beginning Automobile; Cycle cars; Electric trucks; Electric vehicles; Garages; Jitney buses; Motor buses; Motor cycles; Motor trucks; Motor vehicles; Railroads—Motor vehicle competition; Taxicabs; Tires, Automobile; Tractors

Axles

American stock rear and front axle specifications; tabulation. Automotive Ind 50:448-50 F 21 '24
American stock rear axle specifications. Automotive Ind 52:412-13 F 26 '25
Archdale special drilling machine for front axles. il Automobile Eng 15:187 Je '25
Automobile back axle problem. W. H. Hatfield. il Engineer 139:sup5-7 Ja 30 '25
British method of building axles. A. J. Aiers. il diags Am Mach 60:421-3 Mr 20 '24
Columbia axles designed for use with four-wheel brakes. diags Automotive Ind 50:508-9 F 28 '24
Double-ended lathe for back axles by Smith & Coventry, ltd. il Automobile Eng 15: 300 S '25
Drilling and reaming automobile front axles. il Mach 30:391 Ja '24

AUTOMOBILES—Axles—*Continued*
Front axle milling machine by Smith & Coventry, ltd. il Automobile Eng 15:269 Ag '25
Front-axle mountings; S.A.E. report. Soc Auto Eng J 14:39-40 Ja '24
Front axle swivels. R. E. Mathot. il Automobile Eng 15:219-21 Jl '25
Front axles are drilled and reamed in turnover jig. il Automotive Ind 50:145 Ja 17 '24
Front axles at the Olympia show. il Automobile Eng 13:377-8; 14:341-3; 15:380 N 22 '23, N 5 '24, O 29 '25
Inspecting and testing automobile axles. R. L. Rolf. il diags Blast F & Steel Pl 13:386-91+ O '25
Maxwell methods of making rear-axle parts. F. H. Colvin. il diag Am Mach 60:529-32, 569-72, 661-3 Ap 10-17, My 1 '24
Outstanding tendencies in axle design. W. F. Rockwell. diags Soc Auto Eng J 15:189-94 S '24
Rear axles at the Olympia show. il diag Automobile Eng 13:371-4; 14:336-8; 15:377-9 N 22 '23, N 5 '24, O 29 '25
Some of the fixtures used in machining the front axle of the locomobile. N. A. Jagger. il Am Mach 62:261-3 F 12 '25
Swaging automobile axles. J: Williams. il diags Am Mach 59:732 N 15 '23

See also Automobiles—Gearing; Motor buses—Axles; Motor trucks—Axles

Bearings

Taper roller bearings. il diags Automobile Eng 14:196-7 Jl '24

See also Timken roller bearing company

Bibliography

Automobiles; books, pamphlets, and periodicals in the Coventry public libraries (published since 1910). Coventry Pub Lib Readers' Bul 1:130-44, 162-74 S-N '23
Notes and reviews. Published in monthly numbers of Journal of the Society of automotive engineers

Bodies

Aesthetic appeal has been motif in body design. W. L. Carver. Automotive Ind 52:1116-18 Je 25 '25
All-steel bodies now possible with moderate productions. K. W. Stillman. il Automotive Ind 53:778-81 N 5 '25
Automobile body plant lighting. J. M. Ketch, H. J. Thompson and E. F. Labadie. Am Mach 63:617-20 O 15 '25
Building of all-steel vehicle bodies. E: G. Budd and J. Ledwinka. il diags Soc Auto Eng J 16:219-22+; Discussion. 125-6 F '25
Casein glues for automobile-body assembly. W. A. Henderson. Soc Auto Eng J 14:186-7 F '24; Abstract. Automotive Ind 50:223-4 Ja 31 '24; Discussion. Soc Auto Eng J 15: 301-2 O '24
Chicago salon shows present trends in body design. J. E: Schipper. il diags Automotive Ind. 50:272-5 F 7 '24
Fabric bodies gain popularity in France. il Automotive Ind 51:448 S 4 '24
Fabric bodies of novel type. il Sci Am 130: 251 Ap '24
Fabric bodies undergo tests in America. D. Blanchard. il diags Automotive Ind 52:181-2 Ja 29 '25
Fabric body is announced by Apperson. il Automotive Ind 52:1118 Je 25 '25
Fisher system places body repairs on par with chassis service. W. L. Carver. il Automotive Ind 50:572-4 Mr 6 '24
French builders are extending use of fabric leather bodies. W. F. Bradley. il Automotive Ind 52:813-14 My 7 '25
Hot stampings and their production. G. F. Keyes. il Soc Auto Eng J 17:452-4 N '25; Abstract. Am Mach 63:524g-h S 24 '25
Independent body builders profess forebodings about future. Automotive Ind 50:138-9 Ja 17 '24
Inexpensive all-weather enclosures aim of British car makers. M. W. Bourdon. il diag Automotive Ind 50:22-4 Ja 3 '24
Jig of unusual size for assembling automobile bodies. il Mach 32:45 S '25
Low priced closed cars increase in number. H. Chase. il Automotive Ind 50:72-7 Ja 10 '24
Lower cost and weight among chief advantages of fabric bodies; abstracts. K. L. Childs. Automotive Ind 50:1077-9 My 15 '24; Soc Auto Eng J 14:570-1 Je '24
Motor bodywork. H. J. Butler. 492p W. R. Howell & co., London '24
New all-weather inclosure affords clear vision. diags Automotive Ind 51:734 O 23 '24
Passenger-car body division report. diag Soc Auto Eng J 14:43-6 Ja '24
Pastel shades and graceful lines add charm to new body models. L. C. Hill. il diags Automotive Ind 52:48-53 Ja 8 '25
Process of and equipment for fender and body enameling. G. Lefebvre. il diags plans Soc Auto Eng J 14:195-208 F '24; Discussion. 14: 612-14 Je '24
Producing one-piece cowls. il Mach 31:802 Je '25
Rise of the closed car. A. P. Sloan, jr. Automotive Ind 51:1025 D 11 '24
Rover develops modified type of Weymann fabric body. M. W. Bourdon. il diags Automotive Ind 51:104-7 Jl 10 '24
Standard bodies are now produced at one-third pre-war cost. G: J. Mercer. il diag Automotive Ind 53:492-4 S 24 '25
Streamline bodies save power. J. H. W. Kerston. il diags Sci Am 132:173 Mr '25
Style—an eternal force in car merchandising. Automotive Ind 50:1261-3 Je 12 '24
Style and comfort vie for dominance in modern body design. Automotive Ind 52: 1007-11 Je 11 '25
Tests give new facts about body materials. H. Chase. Automotive Ind 50:221-7 Ja 31 '24
Unusual body design of Bignan sport car permits increased speed. il Automotive Ind 50:910-11 Ap 24 '24
Welding all-steel automobile bodies. J. W. Meadowcroft. Am Mach 63:773-4 N 12 '25
Weymann, of Paris, achieves striking design in new sports sedan body. W. F. Bradley. il Automotive Ind 52:660-1 Ap 9 '25
Weymann silent flexible body. G: W. Kerr. il diags Soc Auto Eng J 16:215-18; Discussion. 138-9 F '25
Why not build all-purpose bodies with rear doors? H. W. Perry. Automotive Ind 50: 126-7 Ja 17 '24
Wood for automobile bodies. Soc Auto Eng J 15:384-6 N '24
Wood for automobile bodies. A. T. Upson and L. N. Ericksen. charts Soc Auto Eng J 14: 165-70 F '24
Wood framed bodies finished in high bake enamel by new process. W. L. Carver. Automotive Ind 50:718-20 Mr 27 '24

See also Automobiles—Upholstery; Duco finish; *also* Automobile body builders' association

Terminology

Coach criticized as body name. Soc Auto Eng J 13:505-7 D '23
Use of "phaeton" increasing; "brougham" used to indicate both two-door and four-door five-passenger bodies. Soc Auto Eng J 17:319-21 O '25

Braking

Factors determining the minimum stopping-distance of an automobile. H. H. Allen. charts diags Soc Auto Eng J 17:192-4 Ag '25; Same. Automobile Eng 15:296-7 S '25
Time and distance tests made of braking. il Automotive Ind 51:689 O 16 '24; Same. Eng & Contr (R & S) 62:766 O 1 '24

See also Air brakes, Automobile; Brakes, Automobile

Bumpers

Bumping the bumper. il Sci Am 129:397 D '23
Finishing auto bumpers. T. C. Eichstaedt. Metal Ind 22:359 S '24

AUTOMOBILES—Bumpers—*Continued*
Low weight and great shock absorption chief aims of bumper design. P. M. Heldt. Automotive Ind 51:642-5, 690-4 O 9-16 '24
Motor-car bumpers. J: R. Reyburn. diags Soc Auto Eng J 15:359-62 O '24
Sentry three-bar bumper. il Automotive Ind 52:586 Mr 26 '25
Six channels of distribution open to bumper manufacturers. A. J. McElhone. Automotive Ind 53:782-4 N 5 '25

Care

Helpful hints for winter. J. B. Rathbun. Pet Age 16:24+ O 15 '25
Motor car operation and care. 121p General motors export co., New York '25

See also Automobile driving; Automobiles —Repair

Chassis

Ansaldo chassis. il diags Automobile Eng 14: 384-92 D '24
18 h.p. Phoenix chassis; an interesting layout embodying an overhead-valve engine. il diags Automobile Eng 13:386-92 D '23
11.4 h. p. Citroën chassis. il diags Automobile Eng 15:198-203 Jl '25
11·9 h.p. Morris-Cowley chassis. il diags Automobile Eng 14:64-72 Mr '24
11-24 h.p. Imperia chassis; a Belgian car having an engine with unconventional valve gear. il diags Automobile Eng 15:278-83 S '25
Fiat model 519 chassis. il diags Automobile Eng 15:158-64 Je '25
Four-wheel brakes are most striking mechanical feature of New York show. P. M. Heldt. il diags Automotive Ind 50:64-70 Ja 10 '24
14 h.p. Bean chassis. il diags (supp) Automobile Eng 14:188-95 Jl '24
14-hp. Gwynne motor-car chassis. diags Engineering 119:351, pl 22-3 Mr 20 '25
14 h.p. Rover chassis. il diags Automobile Eng 14:126-34 My '24
Marmon adds one-shot lubrication and oil purifier. il diags Automotive Ind 53:576-8 O 1 '25
9·8 h.p. Lea and Francis chassis. il diags Automobile Eng 14:94-101 Ap '24
Novel experimental chassis demonstrated by French's motor engineering works, ltd. il Automobile Eng 14:45 F '24
Refinement of Chevrolet chassis has brought numerous detailed changes. D. Blanchard. diags Automotive Ind 51:735-6 O 23 '24
Rickenbacker straight-eight chassis. il diags Automobile Eng 15:64-72 Mr '25
16 h.p. and 20 h.p. Ruston-Hornsby chassis. il diags Automobile Eng 13:322-8 N '23
Stiffer frames characterize chassis design at twenty-fifth national show. A. L. Clayden. diags Automotive Ind 52:66-7 Ja 8 '25
12 h.p. Austin chassis. il diags Automobile Eng 15:34-40 F '25
12 h.p. Palladium chassis. il diags Automobile Eng 14:284-92 O '24
12-20 h.p. Calthorpe chassis. il diags Automobile Eng 14:2-9 Ja '24
12-28 h.p. De Dion Bouton chassis. il diags Automobile Eng 15:126-33 My '25
Two-litre Diatto. il diags (supp) Automobile Eng 14:158-64 Je '24
Two-litre O. M. chassis. il diags Automobile Eng 15:238-43 Ag '25
Unsprung weight in Cadillac chassis reduced. il diags Automotive Ind 52:278-9 F 12 '25

See also Automobiles—Frames

Cleaning

Car-washing era here soon. R. A. M. Anderson. Pet Age 15:28-9 My 15 '25
Here's the steam car washer. R. A. M. Anderson. Pet Age 15:29-40 Je 15 '25
Making waste space pay; auto laundry. R. A. M. Anderson. il plan Pet Age 16:30+ N 1 '25

See also Automobile cleaning stations

Clutches

American stock clutch specifications; tabulation. Automotive Ind 50:446-7; 52:416-17 F 21 '24, F 26 '25
Borg & Beck marketing new design of clutch. diag Automotive Ind 50:91 Ja 10 '24
Clutch and gearsets introduced by Ohio manufacturing co. diags Automotive Ind 50:293 F 7 '24
Clutches and clutch couplings at the Olympia show. il Automobile Eng 13:367-8; 15:374 N 22 '23, O 29 '25
History of automotive-clutch development. E. E. Wemp. diags Soc Auto Eng J 17:361-7 O '25; Abstract. Automotive Ind 52:1017-20 Je 11 '25; Discussion. Soc Auto Eng J 17: 367-71 O '25
Press work upon a clutch part. A. Ferber. il diag Am Mach 60:302-3, 479 F 21, Mr 27 '24

Cost of operation

Automobile operating costs affected by condition of roads. J. T. Madison. Eng N 92: 371 F 28 '24
Cost of operating Ford cars on good and bad roads. Eng & Contr (R & S) 61:721 Ap 2 '24
Cost of operating motor cars. R. L. Morrison. Eng N 95:442 S 10 '25
Here's just what my cars cost. R. S. Kellogg. Nation's Business 13:46+ Ag '25
Improved highways pay for themselves by reducing operating costs of motor vehicles. Manuf Rec 87:98 Ja 1 '25
Motor vehicle operation. B. H. Piepmeier. Eng & Contr (R & S) 64:799-800 O 7 '25
Performance data of highway service automobile equipment. E. S. Austin. Eng N 92: 86 Ja 10 '24
Theory and calculation of highway transportation cost. T. R. Agg. Eng N 92:54-8 Ja 10 '24; Discussion. G. F. Schlesinger. 92:336 F 21 '24
What does it cost to run your automobile? J. F. Bickmore. Aera 12:1911-19 Je '24
What it costs to operate an auto. L. S. Cowles. Elec Ry J 62:895 N 24 '23

See also Electric trucks—Cost of operation; Motor trucks—Cost of operation

Cost of repair

Flat-rates forcing accessibility. A. W. S. Herrington. Soc Auto Eng J 14:468-9 My '24

Design

Automobile design and automobile insurance hazards. C. R. Alling. Econ W n s 29:563-4 Ap 18 '25
Automobile design and automotive steels. T: H. Wickenden. diags Soc Auto Eng J 16:538-45 My '25
Balloon tires and four-wheel brakes chief car design changes. Automotive Ind 50:392-3 F 21 '24
Bearing of research department work in car developments. H. L. Horning. Soc Auto Eng J 17:189-91; Discussion. 191 Ag '25
Designing for the colonial market. Automobile Eng 14:233-4 Ag '24
Effects of balloon tires on car design. J. W. White. il diags Soc Auto Eng J 16:205-8; Discussion. 136-8, 620-6 F, Je '25
11.4 h.p. Citroën chassis. il diags Automobile Eng 15:198-203 Jl '25
11·9 h.p. Morris-Cowley chassis. il diags Automobile Eng 14:64-72 Mr '24
11-24 h.p. Imperia chassis; a Belgian car having an engine with unconventional valve gear. il diags Automobile Eng 15:278-83 S '25
Fiat model 519 chassis. il diags Automobile Eng 15:158-64 Je '25
Four-wheel brakes and fabric car bodies stand out as features of French production. W. F. Bradley. il diags Automotive Ind 51: 765-9 O 30 '24
14 h.p. Bean chassis. il diags (supp) Automobile Eng 14:188-95 Jl '24
14 h.p. Rover chassis. il diags Automobile Eng 14:126-34 My '24

AUTOMOBILES—Design—*Continued*
Front brakes and balloon tires chief novelties at Olympia show. M. W. Bourdon. il diags Automotive Ind 51:799-802 N 6 '24
Front-wheel brakes chief feature of British design. Automotive Ind 50:407 F 21 '24
How insurance hazards can be reduced or controlled by design engineers. C. R. Alling. Automotive Ind 51:1016-18 D 11 '24
How passenger cars can be improved. H. Chase. diags Soc Auto Eng J 16:275-7 Mr '25
Isn't the public ready for the fully developed car? H. Chase. diags Automotive Ind 51: 314-18 Ag 14 '24
Luftfahrt und technik; kraftfahrzeugbau. E. Everling. diags Zeit Ver Deutsch Ing 68: 491-2 My 17 '24
Motor design and fuel economy. C. F. Kettering. Ind & Eng Chem 17:1115-16 N '25
Motor exhibition at Olympia. il diags Engineering 118:574-9, 584, pl 58-61 O 24 '24
9·8 h.p. Lea and Francis chassis. il diags Automobile Eng 14:94-101 Ap '24
Probable effect of automobile design on gasoline prices. A. N. Kerr. Nat Pet N 16: 45-6+ Ja 30 '24
Recent developments in British automotive design. M. W. Bourdon. il diags Automotive Ind 53:773-7 N 5 '25
Recent trends in passenger car design. Automotive Ind 52:367 F 26 '25
Requirements of the colonial market. F. A. S. Acres. Automobile Eng 14:213-17 Jl '24; Abstract. Automotive Ind 51:286-90 Ag 7 '24
Rickenbacker straight-eight chassis. il diags Automobile Eng 15:64-72 Mr '25
Show review, Olympia, October 17-25, a brief summary of the trend of design. Automobile Eng 14:314 N 5 '24
16 h.p. and 20 h.p. Ruston-Hornsby chassis. il diags Automobile Eng 13:322-8 N '23
Smoother performance is sought in new car designs. H. Chase. Automotive Ind 52:2-3 Ja 1 '25
Three wheels versus four. R. M. Sanders. il Sci Am 129:386-7 D '23
12 h.p. Austin chassis. il diags Automobile Eng 15:34-40 F '25
12 h.p. Palladium chassis. il diags Automobile Eng 14:284-92 O '24
12-20 h.p. Calthorpe chassis. il diags Automobile Eng 14:2-9 Ja '24
12-28 h.p. De Dion Bouton chassis. il diags Automobile Eng 15:126-33 My '25
Two-litre Diatto. il diags (supp) Automobile Eng 14:158-64 Je '24
Two-litre O. M. chassis. il diags Automobile Eng 15:238-43 Ag '25
What should we expect of tomorrow's motor car developments? H. W. Slauson. il diag Sci Am 132:5-8 Ja '25

See also Automobile engines—Design; Automobiles—Bodies; Automobiles—Chassis; Automobiles—Riding qualities; Automobiles—Weight

Differential

See Automobiles—Gearing

Door hinges

Cold drawn manganese steel is used in latest type door hinge. W. L. Carver. il diags Automotive Ind 51:687-9 O 16 '24

Door locks

French door lock. diags Automotive Ind 52: 271 F 12 '25

Electric equipment

Applications of electrical apparatus to automobile starting and lighting. C. P. Shattuck. Automotive Ind 51:563-6 S 25 '24
Automobile starting, lighting and ignition. H. P. Manly. 826p Drake '24
Automobile starting, lighting and ignition. V: W. Page. 7th ed., rev. & enl. 892p Henley '25
Automotive electricity. E. L. Consoliver. 665p McGraw-Hill '25
Automotive electricity simplified. G: A. Willoughby. 128p Manual arts press '25
Automotive storage battery, its operation and care. T. R. Cook. Soc Auto Eng J 16:503-4; Discussion. 504-9 My '25
Color code for cable proposed. Soc Auto Eng J 14:338 Mr '24
Combined electric generator and magneto announced by Robert Bosch. il diag Automotive Ind 50:295-6 F 7 '24
Electric starting and lighting equipment. A. C. Burgoine. il Automobile Eng 14:54-61 F '24; Abstracts. Elec R (Lond) 94:192-3 F 1 '24; Electrician 92:134 F 1 '24
Electric wiring diagrams for motor vehicles. M. A. Codd. 2d ed. 151p Spon '25
Electrical equipment of the automobile. H. F. Blanchard and A. F. Oliver. 441p U. P. C. book co. '24
Electrical equipment of the motor car. D: P. Moreton. 601p U.P.C. book co. '24
Electrical equipment problems. Soc Auto Eng J 13:529-30 D '23
Insulated cable standard revised. Soc Auto Eng J 16:587 Je '25
New Bosch electric generators have voltage control. P. M. Heldt. il diags Automotive Ind 52:576-8 Mr 26 '25
New electrical equipment line designed for higher priced cars. P. M. Heldt. diags Automotive Ind 51:326-9 Ag 14 '24
Olympia motor-car show. il Elec R (Lond) 95: 608-9 O 24 '24
Problems of motor-vehicle electrical-equipment maintenance. P. J. Durham. Soc Auto Eng J 14:162-4 F '24
Proposed specifications for magnet wire. Soc Auto Eng J 14:190-1 F '24
S.M.M.T. provisional standards; magneto switch. diags Automobile Eng 15:291 S '25
Servicing of electrical equipment; standardization work of the Automotive electric association. A. M. Dudley. Soc Auto Eng J 15:475-6 D '24
Varner's manual of automobile electrical tests. W: R. Varner. 232p Arcady co., Portland, Or. '24
Voltage regulation of automotive electrical systems. D. S. Cole. il Soc Auto Eng J 16: 573-80 Je '25
Westinghouse adds new units to electrical equipment line. diag Automotive Ind 50:351 F 14 '24

See also Automobiles—Lighting; Automobiles—Starting devices; Storage batteries

Electric equipment service

Better service facilities are needed in small towns. Automotive Ind 50:292-3 F 7 '24
Engineer's duty in simplifying electrical equipment repairs. J. W. Tracy. Soc Auto Eng J 14:11-12 Ja '24
To discontinue magneto equipment on left-hand drive cars. G: W. Sutton, jr. il Am Exporter 94:83+ Ap '24

Equipment

Le XIX[e] salon de l'automobile et du cycle; véhicules de tourisme (Paris, 2-12 octobre 1924). G. Delanghe. il diags Génie Civil 85: 394-403 N 1 '24
Isn't the public ready for the fully developed car? H. Chase. diags Automotive Ind 51: 314-18 Ag 14 '24
Tools and accessories at the Olympia show. il diags Automobile Eng 15:391-4 O 29 '25

See also Air brakes, Automobile; Air cleaners, Automobile; Automobile accessories industry; Automobile engines; Automobile locks; Automobiles—Electric equipment; Automobiles—Steering gear; Automobiles—Windshields; Brakes, Automobile; Carburetors; Inclinometers; Magnetos; Shock absorbers; Spark plugs; Tires, Automobile; Wheel pullers

Exhibitions

American-built products predominate at automobile salon. il Automotive Ind 49:1004-6 N 15 '23

AUTOMOBILES—Exhibitions—*Continued*
Attention is centered on closed cars at the South African show. M. Edward. il Automotive Ind 50:1290-1 Je 12 '24
Avid interest in motor cars displayed by public at Chicago show. J. Dalton. il Automotive Ind 50:247-9 Ja 31 '24
Blues and maroons give way to so-called dust proof colors at annual salon, New York city. il Automotive Ind 51:836-40 N 13 '24
British Empire exhibition; notes on the automobile manufacturers' exhibits. il Automobile Eng 14:175-81 Je '24
Cars at Foreign automotive association show combine utility and luxury. il diags Automotive Ind 49:997-1003 N 15 '23
Le XVIII[e] salon de l'automobile et du cycle. G. Delanghe. il diags Génie Civil 83:361-75, 401-8, 424-34, 473-85 O 20-N 3, 17 '23
Le XIX[e] salon de l'automobile et du cycle; véhicules de tourisme (Paris, 2-12 octobre 1924). G. Delanghe. il diags Génie Civil 85: 333-43, 360-71, 394-403 O 18-N 1 '24
Dull finishes gaining in favor, closed car exhibit shows. H. Chase. il Automotive Ind 51: 589-93 O 2 '24
Engines of 30 to 80 cu. in. predominate at the Berlin automobile show. B. R. Dierfeld. il diags Automotive Ind 52:100-4 Ja 15 '25
Front-wheel brakes are chief feature of British show. M. W. Bourdon. Automotive Ind 49:932-9 N 8 '23
Motor car show at Olympia, 1923. il Engineer 136:469-71, 496-500, 506, 528-9 N 2-16 '23; Engineering 116:567-8, 584-9, 613-19, pl 33-6 N 2-16 '23
Motor car show at Olympia, 1924. il Engineer 138:434-6, 470-3 O 17-24 '24; Engineering 118: 553-4, 574-9, 584, 606-10, 614, pl 58-61 O 17-31 '24
Motor car show at Olympia, 1925. il Engineering 120:454-8, 473-7, 482, 504-8 O 9-23 '25; Engineer 140:382-4, 402-4, 438-9 O 9-23 '25; Automobile Eng 15:357-94 O 29 '25
Motor car tendencies in 1924. G. W. Sutton, jr. Am Exporter 94:23-5+ Mr '24
Mystery car, new models and trade days feature opening of Chicago show. il Automotive Ind 52:194-7 Ja 29 '25
Die neue automobil-ausstellungshalle des Reichsverbandes der automobilindustrie. J. Krämer and H. Schmuckler. il diags plan Zeit Ver Deutsch Ing 68:1298-1301, 1341-3 D 13, 27 '24
New York show is greatest ever. J. Dalton. il Automotive Ind 50:56-84 Ja 10 '24
New York's 25th automobile show, Jan. 2-10. il diags Automotive Ind 52:45-71 Ja 8 '25
Novel brake mechanism and dozen new models are Paris show features. W. F. Bradley. plan Automotive Ind 51:633-5 O 9 '24
Olympia show opens with British price cuts averaging 6 per cent. W. M. Bourdon. il Automotive Ind 53:647-52 O 15 '25
Overhead valve engines predominate at Italian automobile show. Automotive Ind 50:1381 Je 26 '24
Paris automobile show. il Automobile Eng 13:329-31; 14:368-71 N '23, N '24
Passenger car features incorporated into French commercial vehicles. W. F. Bradley. il Automotive Ind 51:842-4 N 13 '24
Price reduction announced as British show opens. M. W. Bourdon. il Automotive Ind 51:722-5 O 23 '24
Le salon de l'automobile, à Londres (2-10 et 22-30 novembre 1923). G. Delanghe. il diags Génie Civil 83:612-17 D 22 '23
Le salon de l'automobile, à Londres, 1924. il diags Génie Civil 85:552-4 D 13 '24
Silver jubilee automobile shows will have more space and better arrangement. plans Automotive Ind 51:405-6 Ag 28 '24
Two trade days will increase business value of national shows. Automotive Ind 51:192-4 Jl 24 '24
Wide range of automotive products exhibited at Belgian show. W. F. Bradley. il diag Automotive Ind 49:1293-5 D 27 '23

Fan belts
Automobile fan belts. India Rubber W 71:83 N '24

Fenders
Automatic safety fender. il Sci Am 129:416 D '23

Finishing
See Automobiles—Painting

Frames
Frames at the Olympia show. il Automobile Eng 13:365-7; 14:338-9; 15:388-9 N 22 '23, N 5 '24, O 29 '25
Standardization of frames. Soc Auto Eng J 16:388-9 Ap '25

Fuel
See Automobile engines—Fuel

Fuel tanks
Materials for fuel tanks. Automotive Ind 53: 4 Jl 2 '25

Gearing
Alternate construction permits mounting of side-gears in case or spider. diags Soc Auto Eng J 14:74-6 Ja '24
American stock gearset specifications; tabulation. Automotive Ind 50:441 F 21 '24
Certain gear-shifting with a foot-loose gearbox. il Sci Am 130:251 Ap '24
Closer cooperation with gear makers may cut car builders' costs. E. B. Baltzly. Automotive Ind 52:818-20 My 7 '25
Continuously variable transmission developed in America. diags Automotive Ind 50:674-5 Mr 20 '24
Coordinating gear design and production methods. P. L. Tenney. Soc Auto Eng J 17: 372-5 O '25; Same. Am Mach 63:581-4 O 8 '25; Same cond. Automotive Ind 53:535-6 S 24 '25
Differential which applies power in proportion to the traction of each wheel; the Krohn kompensator. diags Eng & Contr (R & S) 61:1027 My 7 '24
Efficiency and durability of gears. Soc Auto Eng J 17:417-18+ N '25
Ford planetary transmission gear. F. D. Furman. diags Mach 31:471-2 F '25
Fortschritte im kraftwagenbau. A. Heller. il diags Zeit Ver Deutsch Ing 69:509-13 Ap 18 '25
Friction transmission for automobiles. C. A. Trask. il diags Soc Auto Eng J 17:210-11 Ag '25
Gear boxes at the Olympia show. il Automobile Eng 13:368-70; 14:332-6; 15:375-7 N 22 '23, N 5 '24, O 29 '25
Gear calculations and gear tests. Soc Auto Eng J 17:35 Jl '25
Gear manufacturers discuss new uses and shop costs at annual convention. P. M. Heldt. diag Automotive Ind 51:731-4 O 23 '24
Gear production troubles and methods discussed by engineers. Automotive Ind 49:1036-8 N 22 '23
Hasbrouch automatic shift is applicable to any three-speed gearbox. il diags Automotive Ind 53:98-9 Jl 16 '25
Helical gears in constant mesh feature of new McCarrell constantmesh transmission. diag Automotive Ind 50:294 F 7 '24
Ideal transmission requirements outlined. Automotive Ind 51:61-4 Jl 3 '24
Importance of accuracy of tooth-form. A. H. Frauenthal. Soc Auto Eng J 14:556-7 My '24
Is the gear unjustly blamed? Soc Auto Eng J 16:24+ Ja '25
Mechanical continuous-torque variable-speed transmission; Weiss transmission. E: B. Sturges. il diags Soc Auto Eng J 15:86-92+ Jl '24; Discussion. 15:343-5 O '24
Modern transmission design. P. M. Heldt. diags Automotive Ind 51:2-21 Jl 3 '24
Motor shop problems; quiet running gears. F. C. Hudson. Am Mach 63:157 Jl 23 '25
Need of grinding carburized and hardened gears. O. H. Schafer. Soc Auto Eng J 14: 548-50 My '24
New applications of involute forms developed in recent years. E. W. Miller. il diags Automotive Ind 49:1108-10 N 29 '23

AUTOMOBILES—Gearing—*Continued*
New automatic shift partly eliminates selecting operation. diags Automotive Ind 53:140-1 Jl 23 '25; Automobile Eng 15:284-5 S '25
New features involved in Studebaker brake linkage and transmission. il diags Automotive Ind 51:570-1 S 25 '24
New gear shifter assembly constructed of pressed steel parts. il diags Automotive Ind 51:333 Ag 14 '24
New transmission allows for changing gears without interrupting torque. il diags Automotive Ind 51:144-5 Jl 17 '24
New type differential prevents traction loss on slippery ground; the Bement drive. il Automotive Ind 50:289 F 7 '24
New type of constant-mesh transmission. W. A. McCarrell. diags Soc Auto Eng J 15:101-4 Jl '24; Same cond. Am Mach 61:809-11 N 20 '24
New variable transmission. diags Mech Eng 46:355 Je '24
1924 models show changing trends in front end drives. J. E. Schipper. il Automotive Ind 50:290-1 F 7 '24
Oil-treated steel and ground gears. L. A. Danse. il diag Soc Auto Eng J 14:551-4 My '24
Planetary gearing. F. D. Furman. diags Mach 31:553-8 Mr '25
Polishing and burnishing of gear teeth. R. E. Linn. il Soc Auto Eng J 14:554-5 My '24
Pratt & Whitney differential-housing boring and reaming machine. il Am Mach 63:36 Jl 2 '25; Automotive Ind 53:22-3 Jl 2 '25; Iron Age 116:14 Jl 2 '25; Mach 31:910-11 Jl '25
Recent transmission developments. Soc Auto Eng J 17:20-1 Jl '25
Revolutionary transmissions; abstract. diags Mech Eng 46:46-7 Ja '24
Some recent work on unconventional transmissions. P. M. Heldt. il diags Soc Auto Eng J 17:127-41 Jl '25; Same cond. Automotive Ind 52:1052-6, 1109-15 Je 18-25 '25
Some sidelights on the gear problem. W. R. Griswold. diags Soc Auto Eng J 14:545-8 My '24
Something new in automobile drives. il Sci Am 130:12-13 Ja '24
Standard differentials proposed by S. A. E. diags Soc Auto Eng J 16:36-8 Ja '25
Study of an unusual transmission; Chandler traffic transmission. J: Younger. il Am Mach 61:337-40, 375-7 Ag 28-S 4 '24
Systèmes spéciaux de transmissions, suspensions et freins. G. Delanghe. il diags Génie Civil 83:434-5 N 3 '23
Testing and adjusting spiral level gear drives for automobiles. diags Am Mach 61:848-9 N 27 '24
Tests show practicability of Lavaud automatic transmission. W. F. Bradley. diag Automotive Ind 52:1058-60 Je 18 '25
Transmission noises and their remedies. E. Buckingham. Soc Auto Eng J 17:62-3 Jl '25; Same. Am Mach 63:49-50 Jl 9 '25; Abstract. Automotive Ind 52:1145-7 Je 25 '25; Discussion. Soc Auto Eng J 17:460-2 N '25
Transmissions demonstrated. Soc Auto Eng J 16:389-90 Ap '25
Variable transmission. P. B. Ashworth. diags Automobile Eng 15:104-5 Ap '25; Discussion. 15:133, 165 My-Je '25
Variable transmission. G. Constantinesco. diags Automobile Eng 13:332-5, 396-400; 14: 10-14, 39-44, 76-81 N '23-Mr '24; Discussion. 13:393-5; 14:20-2, 47-9, 72-4, 112-14, 140-1 D '23-My '24
Where should heat-treating be done? J: Younger. il Am Mach 63:389-91 S 3 '25

See also Automobiles—Steering gear

Heating

Steam heater is designed for passenger vehicles. diag Automotive Ind 52:542 Mr 19 '25

History

Elwood Haynes, auto inventor, dies. il Am Ind 25:41-3 My '25

Hoods

Automotive pattern drafting. W. Scholl. diags Sheet Metal Worker 15:114-15+, 240-1, 329-30+, 414-15 Mr 14, Ap 25, My 23, Je 20 '24

Identification

Automobile identification. J: F. Brennan. 176p Scientific American pub. co., 233 Bway., New York '24

Insurance

See Insurance, Automobile

Law

See Automobile laws and regulations

License plates

See Automobiles—Number plates

Lighting

Automobile head-lamp situation. Soc Auto Eng J 13:526-7 D '23
Automobile headlighting principles; abstract with discussion. H. M. Crane. Soc Auto Eng J 16:564-5 Je '25
Bayonet-type lamp-door criticised. Soc Auto Eng J 15:31, 274 Jl, O '24
Bayonet-type lamp-door permitted. Soc Auto Eng J 16:33 Ja '25; Discussion. 16:157-8 F '25
Desirable road-illumination. C. A. Michel. il diags Soc Auto Eng J 14:511-15 My '24
Dimmed lights held detriment to safety. Automotive Ind 50:644 Mr 13 '24
Eclairage des automobiles; trois rapports. diag Génie Civil 86:237 Mr 7 '25
Electric lighting equipment on automobiles. J. H. Hunt. Am Inst E E J 44:476-80 My '25; Discussion. 44:781-3 Jl '25
Elliptical reflector in egg-shaped casing feature of new headlamp. il Automotive Ind 50:520 F 28 '24
Head-lamp illumination specified. Soc Auto Eng J 17:225-6 S '25
Head-lamp standards revised. Soc Auto Eng J 14:489-90 My '24
Headlight reflector made in halves. diags Automotive Ind 52:794 Ap 30 '25
Headlight regulations—right or wrong?—a three-cornered S.A.E. debate. P. M. Heldt. Automotive Ind 52:950-2 My 28 '25
Headlight requirements are outlined to illuminating engineers. Automotive Ind 53: 460-1 S 17 '25
Importance of better automobile head-lamps and proper adjustment. R. N. Falge and W. C. Brown. il Soc Auto Eng J 13:25-9 Jl '23; Same, without il. Bus Transportation 2:349-51 Jl '23; Excerpts. Automotive Ind 48:1431-3 Je 28 '23; Discussion. Soc Auto Eng J 13:221-6; 14:31-5 S '23, Ja '24
Lamp glasses need simplification. Soc Auto Eng J 17:150 Ag '25
Lighting and starting equipment at the Olympia show. il Automobile Eng 13:362-5 N 22 '23
Motor-vehicle head-lamps. Soc Auto Eng J 17:155-6 [bibliog. p. 156] Ag '25
Motor-vehicle headlighting. bibliog il chart diags U S Bur Stand Circ 276:1-28 '25
Motor vehicle lighting regulations. Illum Eng Soc 18:949-54; Discussion. 955-63 D '23
New double filament overcomes dimming device objections. il diags Automotive Ind 53: 250-1 Ag 13 '25; Am Inst E E J 44:1025-7 S '25
New lamp for city driving. diags Automotive Ind 51:569 S 25 '24
Les nouveaux types de phares d'automobiles. F. Collin. il diags Génie Civil 86:134-8 F 7 '25
Proposed S.A.E. recommended practice for motor-vehicle acetylene head-lamps. Soc Auto Eng J 15:27 Jl '24
Report of committee on automobile headlights —International commission on illumination. C. H. Sharp. Illum Eng Soc 19:801-17 O '24
Safe headlight. W. G. Cole. il Nat Safety N 10:13-15 Jl '24
S.A.E. lighting division report. Soc Auto Eng J 14:633-6 Je '24; Automotive Ind 50:1335-6 Je 19 '24

AUTOMOBILES—Lighting—*Continued*
Specifications of laboratory tests for approval of electric headlighting devices for motor vehicles; Illuminating engineering society committee report. U S Bur Labor Statistics Bul 350:1-5 '24
Study shows striking divergencies in state motor lighting regulations; tabulation. Automotive Ind 53:461-3 S 17 '25
3-deg. tilt favored by S. A. E. Soc Auto Eng J 15:494-5 D '24; Automotive Ind 51:1041 D 18 '24
Vérification des réflecteurs pour projecteurs d'automobiles. A. Marsat. diags Génie Civil 86:267-8 Mr 14 '25

See also Automobiles—Electric equipment

Lubrication

Automobile rotary lift. il Pet Age 16:61 Ag 15 '25
Central-point chassis-lubrication system. J. Bijur. il diags plan Soc Auto Eng J 16:335-41; Discussion. 278-9 Mr '25
Chassis lubricating system developed by Bijur is ready for market. H. Chase. il diags Automotive Ind 52:262-4 F 12 '25
Chassis lubrication. F. H. Gleason. diags Soc Auto Eng J 14:422-30+ Ap '24
Chassis lubrication is simplified by Bowen system. diags Automotive Ind 50:876-8 Ap 17 '24
Dodge brothers tell why they sell motor oil. R. B. Stafford. Nat Pet N 16:21-2 F 20 '24
Flat rate lube system here; Indian refining co. starts innovation. Pet Age 16:42 Ag 1 '25
Floating the car on oil. il Sci Am 130:24+ Ja '24
Magazine oiling system of chassis lubrication. C. T. Myers. il diags Soc Auto Eng J 14: 646-8 Je '24
Marmon adds one-shot lubrication and oil purifier. il diags Automotive Ind 53:576-8 O 1 '25
Mercedes oiling system a departure from conventional practice. diags Automotive Ind 53: 256-61 Ag 13 '25
Motor ills not always oil. J: B. Rathbun. Pet Age 13:46+ F 1 '24
Notes on chassis lubrication and maintenance. A. F. Masury. il diags Soc Auto Eng J 14: 641-6 Je '24; Same abr. Automobile Eng 14: 305-7 O '24
Real test for lubes now; Wasson motor check. J: B. Rathbun. Pet Age 14:45+ N 15 '24

See also Automobile engines—Lubrication; Grease guns

Manifolds

See Automobile engines—Manifolds

Manufacture

At the Ansaldo plant in Italy. W. E. Irish. il Am Mach 62:659-63 Ap 23 '25
Der automobilbau als bedarfsindustrie. G. Becker. il diags Zeit Ver Deutsch Ing 69: 369-75, 441-6 Mr 21, Ap 4 '25
Automotive industry and the machine tool builder. Mach 31:85-91, 179-83, 263-7 O-D '24; Discussion. 31:270 D '24
Automotive pattern drafting. W. Scholl. diags Sheet Metal Worker 13:840-4, 894-7; 14:6-7+, 46-7, 83-4+, 113-15, 204-6, 283-5, 405-7, 490-1+, 940-1+; 15:41-3, 114-15+, 240-1, 329-30+, 414-15 Ja 5-Mr 16, Ap 13, My 11, Je 22, Jl 20 '23, Ja 4, F 15, Mr 14, Ap 25, My 23, Je 20 '24
British manufacturers cut production costs by keeping equipment flexible. H. Tipper. Automotive Ind 51:320-1 Ag 14 '24
Building racing cars; an interview with Fred Duesenberg. J: Younger. il diags Am Mach 63:315-16 Ag 20 '25
Centerless grinders now used to turn taper shanks and ball ends. W. L. Carver. il Automotive Ind 52:821-3 My 7 '25
Chevrolet Tarrytown plant assembles 600 complete cars a day. H. Chase. il plan Automotive Ind 50:666-71 Mr 20 '24
Coining-press operation. A. R. Kelso. il diags Soc Auto Eng J 15:399-406 N '24; Same cond. Am Mach 61:685-8 O 30 '24; Abstract. Automotive Ind 51:755-6 O 30 '24; Discussion. Soc Auto Eng J 16:510-13 My '25
Conveyor system in continuous motion; handles windshield frames into tanks and through ovens without pause. il Iron Age 112:1594-5 D 13 '23
Drawing tools for automobile side rails. P. Baldus. diags Am Mach 60:949-50 Je 26 '24
Drilling motor parts on the rotating table. W. F. Sandmann. il diags Am Mach 60: 197-9 F 7 '24
Drilling operations on automobile parts. H. L. Tigges. il diags Mach 31:109-11 O '24
Fellows gear shaper on automotive work. E. Bouton. Am Mach 61:918-19 D 11 '24
Five machines devised to meet various needs of car and parts manufacturers. il Automotive Ind 51:858-9 N 13 '24
Ford's assembly conveyor at Wembley. G: F: Zimmer. il Cassier's Ind Management 12: 362-4 Jl '25
Grey iron; some notes on its use for automobile castings. H. B. Swan. Automobile Eng 14:172-4 Je '24
Heat treating at the Chevrolet plant. il Iron Age 114:129-31 Jl 17 '24
High-production machines in the automobile shop; Ingersoll traveling-head milling machines. il Am Mach 62:417-20 Mr 12 '25
High production machines in the automobile shop; M.-G. production unit. il diag Am Mach 61:277-9 Ag 14 '24
How the automotive industry has influenced the design of machine tools. A. L. DeLeeuw. Am Mach 61:891-2 D 4 '24
Increasing automobile production with special machines. il Mach 31:363-6 Ja '25
Inspection methods. C. J. Ross. il Soc Auto Eng J 17:376-84 O '25; Same cond. Am Mach 63:539-43 O 1 '25
Intensive production; Cubitt car works, planned and equipped for large outputs. il Automobile Eng 14:203-10 Jl '24
Lumber handling in an automobile-body plant. B. Nagelvoort and T: D. Perry. il plan Mech Eng 46:472-6; Discussion. 476-7 Ag '24
Maintaining quality to the standard of slogan. J: Younger. il Am Mach 63:341-4 Ag 27 '25
Many automotive production problems solved by welding processes. P. M. Heldt. il diags Automotive Ind 53:506-11 S 24 '25
Material handling is cut to minimum in Jewett assembly plant. W. L. Carver. il plan Automotive Ind 50:281-8 F 7 '24
Modern production methods in Sunbeam works. il Automobile Eng 14:15-19 Ja '24
Motor shop problems. F. C. Hudson. Am Mach 62:466, 607, 663, 879; 63:157 Mr 19, Ap 16-23, Je 4, Jl 23 '25
New automobile shop of the Ajax motors co. Racine, Wis. il Am Mach 63:647-52 O 22 '25
Nickel consumed by automotive industry totalled 9,000,000 lb. in 1924. Automotive Ind 52:1074 Je 18 '25
Packard bodies assembled in metal jigs to minimize hand fitting. il Automotive Ind 50: 1272-3 Je 12 '24
Pierce-Arrow machining processes. J: Younger. il diags Am Mach 61:571-3 O 9 '24
Possible economies in automotive machine-shop operations. A. L. DeLeeuw. Soc Auto Eng J 15:418-25 N '24; Same. Am Mach 61: 735-8, 765-70 N 6-13 '24; Abstract. Automotive Ind 51:754-5 O 30 '24; Discussion. Soc Auto Eng J 16:460-4 Ap '25
Production grinding gains favor. O. A. Knight. Iron Tr R 73:1367-8+ N 15 '23
Sound design is essential to successful quantity production. Automotive Ind 52:632 Ap 2 '25
Special body welding methods cut labor costs to minimum. J. E: Schipper. il diag Automotive Ind 52:652-5 Ap 9 '25
Study of an unusual transmission; Chandler traffic transmission. J: Younger. il Am Mach 61:337-40, 375-7 Ag 28-S 4 '24

AUTOMOBILES—Manufacture—*Continued*

Symposium on inspection methods. Soc Auto Eng J 14:472-4 My '24

Tools and fixtures in the Pierce-Arrow plant. C: B. Ekdahl. il diags Mach 32:46-50 S '25

Training men for automobile work. J: Younger. il Am Mach 61:423-5 S 11 '24

Use of pressed steel in automobiles result of tireless labor. Automotive Ind 50:350-1 F 14 '24

Using conveyors in small plants. H. P. Harrison. il Iron Tr R 73:1428-32 N 22 '23

Welding all-steel automobile bodies. J. W. Meadowcroft. Iron Age 112:1457-8 N 29 '23

What about automobile shops? A. L. De Leeuw and K. H. Condit. Am Mach 59: 643-5, 683-4 N 1-8 '23; Discussion. 59:828; 60:441-2 D 6 '23, Mr 20 '24

What Ford has done in the Lincoln plant. F: H. Colvin. il diags Am Mach 59:897-901, 943-7; 60:5-8 D 20 '23-Ja 3 '24

Workers, machinery, and production in the automobile industry. M. W. La Fever. Monthly Labor R 19:735-60 O '24

Works of Vauxhall motors, ltd. il Automobile Eng 15:341-7 O '25

See also Automobile engines—Manufacture; Automobile factories; Automobile parts; Automobiles—Painting; Automobiles—Weight; Cylinders (engines); Japanning; Steel, Automobile

Noise

Automobile-noise measurement. H. C. Snook. il diags Soc Auto Eng J 17:115-24 [bibliog. p. 124] Jl '25

Gears don't make all the noise. Automotive Ind 51:753-4 O 30 '24

Transmission noises and their remedies. E. Buckingham. Soc Auto Eng J 17:62-3 Jl '25; Same. Am Mach 63:49-50 Jl 9 '25; Abstract. Automotive Ind 52:1145-7 Je 25 '25; Discussion. Soc Auto Eng J 17:460-2 N '25

Number plates

Large uses of steel in small ways. il Iron Tr R 74:609 F 28 '24

License-plate bracket-slots adopted. diag Soc Auto Eng J 15:496; 16:38 D '24-Ja '25

License-plate standard proposed. Soc Auto Eng J 16:264-6 Mr '25

Making automobile license plates. Iron Age 116:686-7 S 10 '25

Standardization of punchings on auto license plates. Am Mach 61:837 N 27 '24

Why license number plates should be standardized. Automotive Ind 52:298 F 19 '25

Paint removal

Removing enamel from automobile fenders and engine hoods. Gas Age 54:376 S 13 '24

Painting

All seven coats of new pyroxylin finish applied in two days. H. Chase. Automotive Ind 51:254-5 Jl 31 '24

Another varnish maker enters field of pyroxylin automobile finishes; the Beckwith-Chandler co. Automotive Ind 51:324-5 Ag 14 '24

Armorcote baking enamel now being made in limited number of colors. Automotive Ind 50:859 Ap 17 '24

Automatic equipment cuts painting cost. il Iron Age 114:555-7 S 4 '24

Automobile finishing varnishes. W. T. Pearce. Ind & Eng Chem 17:806-8 Ag '25

Baking enamel by electricity. H. Allen. Iron Tr R 76:220-2 Ja 15 '25

Causes of paint failures. H. C. Mougey. Soc Auto Eng J 14:479-80 My '24

Chassis and body painting. A. D. Robson. Soc Auto Eng J 16:11-12 Ja '25

China wood oil is used as base for baked color enamel. W. L. Carver. Automotive Ind 50: 324-6 F 14 '24

Coach and automobile finishes. E. Perry. Oil Paint & Drug Rep 106:20 Jl 14 '24

Demand for better body finishes is being met. Automotive Ind 50:1264-8 Je 12 '24

Demand for more durable finishes stimulates new developments. Automotive Ind 50:978-81 My 1 '24

Easy polishing is feature of new lacquer finish. Automotive Ind 51:849 N 13 '24

Egyptian lacquer develops new nitro cellulose automobile finish. H. Chase. Automotive Ind 50:828-9 Ap 10 '24

Epidemic of lead poisoning caused by the sandpapering of automobile bodies. A. S. Dean. bibliog J Ind Hygiene 6:245-50 O '24; Abstract. Monthly Labor R 19:1348-50 D '24

Final coat of latest pyroxylin finish gives gloss without polishing. Automotive Ind 51:526 S 18 '24

Finish failures overcome with pyroxylin enamel. H. C. Mougey. il diags Soc Auto Eng J 17:183-8 Ag '25

Finishing and refinishing approaching high engineering standard. H. Chase. Automotive Ind 50:1134-7 My 22 '24

Further development made in celluloid finishings. Automotive Ind 51:194 Jl 24 '24

Glidden company develops lacqueroid system of finishing. Automotive Ind 52:12 Ja 1 '25

Heat conservation a prime requisite in drying oven design. P. M. Heldt. il diags Automotive Ind 53:517-23 S 24 '25

How electric heat has been put to work in low temperature enameling. W. B. Scott. il Automotive Ind 51:892-6 N 20 '24

How Sherwin-Williams lacquer is applied. Automotive Ind 52:936 My 28 '25

Kodak co. has new body finish; Kodalak. Automotive Ind 52:791 Ap 30 '25

Laboratory tests on finishes. H. C. Mougey. il diag Ind & Eng Chem 17:411-12 Ap '25

Lacquer finish popular and will live, but problems not all solved. H. Chase. il Automotive Ind 52:1102-6 Je 25 '25

Latest lacquer finish is termed Berryloid. Automotive Ind 52:264 F 12 '25

More durable car finishes are making their appearance. H. C. Mougey. il diags Automotive Ind 50:777-9 Ap 3 '24

Motor and carriage painting. A. Bates. 2d ed., rev. and enl. 208p Spon '24

New fire hazards developed by use of pyroxylin finishes. Automotive Ind 52:989 Je 4 '25

New pyroxylin base finishing materials. H. B. Fox. il Chemicals 23:6-7 My 25 '25

New Valentine varnish system said to double life of finish. charts Automotive Ind 50: 968-9 My 1 '24

Nitrocellulose automobile finishes. L. V. Pulsifer. Soc Auto Eng J 15:474-5 D '24

Preparation of surfaces for nitrocellulose finish. J: McGeorge. Soc Auto Eng J 17:212 Ag '25

Process of and equipment for fender and body enameling. G. Lefebvre. il diags plans Soc Auto Eng J 14:195-208 F '24; Discussion. 14:612-14 Je '24

Pyroxylin enamels finding favor. E. M. Flaherty. Soc Auto Eng J 14:352-3 Mr '24

Pyroxylin refinishing-practice. J. J. Riley. Soc Auto Eng J 17:245-7 S '25; Abstract. Chemicals 23:9 My 25 '25; Discussion. Soc Auto Eng J 17:247-8 S '25

Qualities and durability of nitro-cellulose finishes for automobiles. H. C. Mougey and L. V. Pulsifer. diag Soc Auto Eng J 16:277-8 Mr '25

Refinishing of automobile bodies. L. V. Pulsifer and O. H. Briggs. Soc Auto Eng J 14: 571-2 Je '24

Repainting and refinishing. C. O. Thomae. Soc Auto Eng J 13:518-19 D '23

Revolutionary painting methods. R. C. Williams; R. S. Rogers. Soc Auto Eng J 14: 90-3 Ja '24

Rubbing process is shortened with new car body finish. Automotive Ind 52:655 Ap 9 '25

Solvents and automobile lacquers. D. B. Keyes. il Ind & Eng Chem 17:558-67 Je '25; Excerpts. Oil Paint & Drug Rep 107:22 Je 1 '25

Suggested specification for black baking-enamel. Soc Auto Eng J 15:273-4 O '24

Tentative baking enamel specification formulated. Automotive Ind 51:639 O 9 '24

AUTOMOBILES—Painting—*Continued*
Ultra-violet rays used to test body fabrics and finishes. W. L. Carver. il chart diag Automotive Ind 50:1011-14 My 8 '24
Valentine makes radical improvements in lacquer finishing. H. Chase. Automotive Ind 52:873-4 My 14 '25
What basic materials go into automobile finishes? Automotive Ind 51:34-8 Jl 3 '24
Wood framed bodies finished in high bake enamel by new process. W. L. Carver. Automotive Ind 50:718-20 Mr 27 '24
Zapon pyroxylin finishes now ready for use in body production. Automotive Ind 51:121 Jl 10 '24
Zellac for autos. Brass W 21:320 S '25
See also Duco finish; Japanning

Bibliography
Automobile painting and finishing. Soc Auto Eng J 16:261-2 Mr '25

Parking
See Automobile parking

Performance
Detailed service records necessary for intelligent design. W. L. Carver. Automotive Ind 49:1248-52 D 20 '23

Pipe fittings
See Automobiles—Tubing and hose

Prices
American passenger car prices; tabulation. Automotive Ind 50:394 F 21 '24
Automobile models and price changes. Published in weekly numbers of Commercial and financial chronicle
Delivered car prices—what should they be allowed to include? N. G. Shidle. Automotive Ind 52:868-70 My 14 '25
Is further readjustment of car prices likely before August 1st? Automotive Ind 52:1032 Je 11 '25
Passenger car prices stabilizing again. Automotive Ind 52:306-7 F 19 '25
Price changes during show week; new model prices announced at show. Automotive Ind 52:82-3 Ja 8 '25
Scientific American annual automobile guide; tabulation. Sci Am 130:42-4; 132:68-71 Ja '24, Ja '25
Steady!—is present watchword on car prices. N. G. Shidle. Automotive Ind 51:873-4 N 20 '24

Radiator splash shields
Automotive pattern drafting. W. Scholl. diags plan Sheet Metal Worker 14:6-7+, 940-1+; 15:11-3 F 2 '23, Ja 4, F 15 '24

Reconstruction
Plant opens to remanufacture cars on production basis. il Automotive Ind 50:914-15 Ap 24 '24

Records
Detailed service records necessary for intelligent design. W. L. Carver. Automotive Ind 49:1248-52 D 20 '23

Registration
Standardized registration methods needed to give best results. K. W. Stillman. Automotive Ind 53:177-9 Jl 30 '25

Repair
Automobile repair manual. R. E. Lomer. 290p U. P. C. book co. '24
Automobile repairing. B. G. Elliott. 429p McGraw-Hill '24
Automobile service chart. Am Mach 60:178-9 Ja 31 '24
Automotive repair. H. J. Smith and R. S. Kern. 123p Manual arts press '25
Cadillac shop manual. 254p Technical dept., Cadillac motor car co., Detroit '24
First Maintenance equipment exhibit shows progress in design of service tools. W. L. Carver. il Automotive Ind 50:1158-9 My 29 '24
Foster-Johnson service station equipment. il Mach 31:236 N '24
My Ford; its care and repair. H. F. Blanchard. 293p U. P. C. book co. '25
Starrett book for motor machinists and auto repair men. 215p L. S. Starrett co., Athol, Mass. '24
Strength of an automobile frame patch. D. Hampson. diags Am Mach 59:779 N 22 '23
See also Automobile engines—Repair; Automobile service stations; Garages

Riding qualities
Air-springs and the measurement of automobile riding-quality. J: J. McElroy. il diags Soc Auto Eng J 15:211-26; Discussion. 227-8 S '24
Automobile riding-comfort. S. P. Hess. il diag Soc Auto Eng J 15:82-5 Jl '24; Discussion. 15:543-7 D '24
Elementary dynamics of vehicle spring-suspension. F. C. Mock. il diags Soc Auto Eng J 17:37-51+ Jl '25; Abstract. Automotive Ind 52:1149-52 Je 25 '25
Means sought to increase riding comfort discussed at S.A.E. meeting. Automotive Ind 51:53-6 Jl 3 '24
New quantitative method of measuring the riding comfort of automobiles. F. H. Norton. il diags Soc Auto Eng J 14:136-8 F '24
Notes on Professor Lemaire's visit and lectures, with supplementary data. G. B. Upton. Sibley J 39:353-4+ Je '25
Riding-comfort factors. bibliog Soc Auto Eng J 14:335-6; Discussion. 336-7+ Mr '24
Riding qualities depend on proper combination of many factors. H. Chase. diag Automotive Ind 50:1022-3 My 8 '24
Riding-qualities of motor vehicles. R. W. Brown. il diags Soc Auto Eng J 17:107-14 Jl '25; Abstract. Automotive Ind 52:1149-52 Je 25 '25
Riding-qualities research. il diag Soc Auto Eng J 15:7-9 Jl '24
Riding-qualities research. J: A. C. Warner. il diags Soc Auto Eng J 15:75-81 Jl '24; Discussion. 15:556-61 D '24
Riding-qualities that are physical and mental insults. H. L. Horning. Soc Auto Eng J 17: 91-4 Jl '25
Riding-quality indicator. E. H. Lockwood and L. B. Kimball. il diag Soc Auto Eng J 15: 40-2 Jl '24; Discussion. 15:548-53 D '24
Riding-quality measurements. Soc Auto Eng J 16:571-2 Je '25
Tyre a part of the suspension system. A. Healey. diags Automobile Eng 14:406-14 D '24; Abstracts. Automotive Ind 51:1046-8 D 18 '24; Engineering 118:805-6 D 12 '24
See also Accelerometer; Automobiles—Seats; Automobiles—Springs

Bibliography
S.A.E. research department bibliography. loose leaf. Research dept., Society of automotive engineers, inc., New York '25

Seats
Seat has back which moves with passenger. diag Automotive Ind 51:780 O 30 '24
Seifert convertible seat. il diags Automotive Ind 53:410 S 10 '25

Shimmying
See Automobiles—Wheel shimmying

Shock absorbers
See Shock absorbers

Snow motor
See Snow motor

Specifications
American export passenger car specifications; tabulation. Automotive Ind 50:406; 52:366 F 21 '24, F 26 '25
American passenger car chassis specifications; tabulation. Automotive Ind 50:396-9; 52:358-61 F 21 '24, F 26 '25
American stock steering gear specifications; tabulation. Automotive Ind 52:396 F 26 '25

AUTOMOBILES—Specifications—*Continued*

Body and equipment specifications of 1925 cars; tabulation. Automotive Ind 52:356-7 F 26 '25

British passenger car chassis specifications; tabulation. Automotive Ind 50:408-11; 52: 368-9 F 21 '24, F 26 '25

Continental passenger car chassis specifications; tabulation. Automotive Ind 50:412-18; 52:370-6 F 21 '24, F 26 '25

Speed

See Automobile laws and regulations

Springs and suspension

Air-springs and the measurement of automobile riding-quality. J: J. McElroy. il diags Soc Auto Eng J 15:211-26; Discussion. 227-8 S '24

Automobile riding-comfort. S. P. Hess. il diag Soc Auto Eng J 15:82-5 Jl '24; Discussion. 15:543-7 D '24

Car riding qualities tested by use of new instrument. diags Automotive Ind 50:130-1 Ja 17 '24

Development in the design of automotive and railway leaf springs. J. K. Wood. diags Am Mach 62:923-8 Je 11 '25

Elementary dynamics of vehicle spring-suspension. F. C. Mock. il diags Soc Auto Eng J 17:37-51+ Jl '25; Abstract. Automotive Ind 52:1149-52 Je 25 '25

Flexible coupling in air spring. diag Bus Transportation 4:136-7 Mr '25

Flexible fabric spring shackles. il Automobile Eng 15:17 Ja '25

Full gasoline tank in most cases means an easier-riding car. P. Truesdell. il Nat Pet N 17:107+ My 13 '25

Gattie suspension system. diag Automobile Eng 14:362-3 N '24

How air-springs contribute to air-riding comfort. J. J. McElroy. il diags Soc Auto Eng J 14:93-5 Ja '24

Metal spring gaiter marketed in England. diag Automotive Ind 52:104 Ja 15 '25

More flexible springs needed. D. R. Swinton. Soc Auto Eng J 16:10-11 Ja '25

Railway and automotive leaf springs. J. K. Wood. diags Am Mach 61:719-21; 62:187-90 N 6 '24, Ja 29 '25

Riding-quality indicator. E. H. Lockwood and L. B. Kimball. il diag Soc Auto Eng J 15: 40-2 Jl '24; Discussion. 15:548-53 D '24

Road shocks. diags Automobile Eng 15:329-33 O '25

S.A.E. springs division report; leaf springs. Soc Auto Eng J 14:639-40 Je '24; Excerpts. Automotive Ind 50:1338-9 Je 19 '24; Mach 30:873 Jl '24

Spring-movement and vibration study of cars in action. T. J. Litle, jr. diags Soc Auto Eng J 13:445-9 D '23

Springs and suspension at the Olympia show. il Automobile Eng 13:374-7; 14:348-50; 15: 389-91 N 22 '23, N 5 '24, O 29 '25

Suspension pour automobiles, système Béchereau. diags Génie Civil 83:598-9 D 15 '23

Suspension pour automobiles, système Sizaire frères. il diags Génie Civil 83:572-3 D 8 '23

Suspension; recent improvements in laminated springs. diags Automobile Eng 14:135-40 My '24

Les suspensions d'automobiles, système Broulhiet. G. Delanghe. il diags Génie Civil 83:517-19 N 24 '23

Taking the roughness out of ruts. il Sci Am 129:411 D '23

Tyre as part of the suspension system. A. Healey. diags Automobile Eng 14:406-14 D '24; Abstracts. Automotive Ind 51:1046-8 D 18 '24; Engineering 118:805-6 D 12 '24

What are the best mechanical tests for spring materials? W. Rosenhain. Automotive Ind 50:278-80 F 7 '24

See also Automobiles—Riding qualities; Motor buses—Springs; Motor trucks—Springs; Shock absorbers

Standards

Action on parts and fittings. Soc Auto Eng J 16:496-7 My '25

Automotive simplification; department of commerce holds meetings to weed out varieties of size. Bus Transportation 4:53 Ja '25

Carriage-bolt practice simplified. diags Soc Auto Eng J 13:507 D '23

Many new standards are formulated by S.A.E. committee. Automotive Ind 52:154-5 Ja 22 '25

Standardization and automobiles. W. P. Chrysler. Am Ind 24:37-8 Ja '24

Standardization policy determined. Soc Auto Eng J 16:264 Mr '25

Standards accepted by the S.A.E. Soc Auto Eng J 16:413-14 Ap '25

Standards committee division reports. diags Soc Auto Eng J 14:37-56 Ja '24

Standards committee division reports. diags Soc Auto Eng J 14:625-40 Je '24; Abstract. Automotive Ind 50:1335-9 Je 19 '24; Discussion. Soc Auto Eng J 15:25-30 Jl '24

Tentative standardization work of the S. A. E. Soc Auto Eng J 12:486-9; 13:502-10; 14: 74-7, 338-41, 383-6, 487-93, 578-81; 15:31-2, 184-8, 273-5, 395-8, 491-7 My, D '23-Ja, Mr-Jl, S-D '24

25 new proposals laid before S.A.E. standards committee. Automotive Ind 52:1065-7 Je 18 '25

Work of the divisions and subdivisions of the S.A.E. standards committee and other standards activities. Soc Auto Eng J 16: 33-43, 140h-150, 263-6, 405-14, 493-7, 581-94; 17:30-3, 150-4, 225-7, 319-21, 413-15 Ja-N '25

See also Automobile parts, Interchangeable; Brakes, Automobile—Standards

Starting

Danger of scuffed pistons and oil dilution reduced by gasoline preheating devices. P. M. Heldt. il diags Automotive Ind 51:928-33 N 27 '24; Discussion. A. G. Herreshoff. 51: 1058 D 18 '24

Dilution needed for easy starting in winter. O. C. Berry; J. H. Hunt. Soc Auto Eng J 15:488-9 D '24

Engine-starting tests. J: O. Eisinger. il diags Soc Auto Eng J 17:52-7 Jl '25; Abstract. Automotive Ind 52:1137-8 Je 25 '25; Discussion. Soc Auto Eng J 17:474-5 N '25

Starting devices

Electric starting and lighting equipment. A. C. Burgoine. il Automobile Eng 14:54-61 F '24; Abstract. Elec R (Lond) 94:192-3 F 1 '24

Engineers comment on choke valves and the fully developed car. Automotive Ind 51:573 S 25 '24

Lighting and starting equipment at the Olympia show. il Automobile Eng 13:362-5 N 22 '23

Self-starter of charge-injection type is introduced. il diag Automotive Ind 52:463 Mr 5 '25

See also Automobiles—Electric equipment

Steering gear

Adapting motor cars to low-pressure tires. J. E. Hale. il diag Soc Auto Eng J 15:501-6; Discussion. 507-10 D '24

Advantages of hydraulic steering; abstract with discussion. J. W. White. Soc Auto Eng J 16:566-7 Je '25

American stock steering gear specifications; tabulation. Automotive Ind 50:444-5 F 21 '24

Better steering and head-lighting. F. F. Chandler. Soc Auto Eng J 14:478-9 My '24

Front-wheel shimmying. W. R. Strickland. diags Soc Auto Eng J 16:227-31 F '25; Abstract. Automotive Ind 52:176 Ja 29 '25; Discussion. Soc Auto Eng J 16:134-5 F '25

How hard does a car steer? F. F. Chandler. il diags Soc Auto Eng J 16:183-8+ F '25; Abstract. Automotive Ind 52:177-8 Ja 29 '25; Discussion. Soc Auto Eng J 16:135, 279-80 F-Mr '25

Is hydraulic steering coming? Soc Auto Eng J 15:374 N '24

Machining operations on Reo steering spindles. il diags Am Mach 61:812-13 N 20 '24

Making a steering gear for low-pressure-tired wheels. J: Younger. il Am Mach 63: 264-6 Ag 13 '25

AUTOMOBILES—Steering gear—*Continued*
New Hannum steering gear provides variable leverage. il Automotive Ind 53:622-3 O 8 '25
New Lavine steering gear moves wheels faster near end of range of motion. B. M. Ikert. diags Automotive Ind 51:440-1 S 4 '24
New steering gear has positive outside adjustment. diag Automotive Ind 51:1085 D 25 '24
Prevention of shimmy by hydraulic steering-control. J. W. White. il diags Soc Auto Eng J 17:490-2; Discussion. 492-3 N '25
Steering-gear analyses. F. F. Chandler. Soc Auto Eng J 14:585-90+ Je '24; Abstract. Automotive Ind 50:830-1 Ap 10 '24
Steering gear at the Olympia show. il Automobile Eng 13:378-9; 14:340-1; 15:387-8 N 22 '23, N 5 '24, O 29 '25
Steering gear; some fundamental considerations in design. J. L. Synge. Automobile Eng 15:204-5 Jl '25

Stopping

See Automobiles—Braking

Suspension

See Automobiles—Springs and suspension

Taxation

Motor vehicle taxation. Index p 11-12 O '25
See also Motor vehicles—Taxation

Terminology

Glossary of automotive terms and instructions to exporters. U S Bur For & Dom Com Trade Promotion Ser 3:1-13 '24
Interim report on British standard nomenclature for automobile, motor cycle and cycle parts. 22p British eng. stand. assn., London '22
See also Automobiles—Bodies—Terminology

Testing

Appraising cars by comparison of mechanical efficiency. R. B. Wasson. Soc Auto Eng J 16:563-4 Je '25
Automobiles tested on roof track of factory. il Eng N 94:571 Ap 2 '25
How work is progressing on the General Motors proving ground. il Automotive Ind 51: 531-2 S 18 '24
Mason laboratory issues car test results. Automotive Ind 50:731 Mr 27 '24
Real test for lubes now; Wasson motor check. J: B. Rathbun. Pet Age 14:45+ N 15 '24

Theft

A.A.A. moves against automobile thieves. Automotive Ind 52:166 Ja 22 '25
Automobile theft problem and the certification of automobile titles; abstracts. Econ W n s 27:636-8 My 3 '24; Automotive Ind 50:1119-22 My 22 '24
How to take away market for stolen cars. Automotive Ind 50:1063-4 My 15 '24
Recent legislation for the protection of automobile owners against theft. J. P. Chamberlain. Econ W n s 30:201-2 Ag 8 '25
See also Automobile locks; Automobiles—Identification; Insurance, Automobile

Tops

Manufacture of automobile topping. il India Rubber W 70:643-5 Jl '24

Towing

Universal tow-bar for automobiles. il Management & Adm 9:148 F '25

Transmission

See Automobiles—Gearing

Transportation

Automobile cars for Missouri Pacific. il Ry Age 78:741-2 Mr 14 '25; Same. Ry Mech Eng 99:155-7 Mr '25
Balloon tires affect car shipment. il Soc Auto Eng J 15:380-1 N '24; Abstract. Automotive Ind 51:757 O 30 '24
Getting rid of the export box. G: F. Bauer. il Management & Adm 9:241-4 Mr '25
How automobiles should be loaded in the car. P. Alquist. il Ry Age 77:853-5 N 8 '24
Pacific coast dealers lose ground in freight rate fight. H. H. Dunn. Automotive Ind 52: 493-4 Mr 12 '25
Preparing and loading automobiles for shipment. B. R. Moore. il Soc Auto Eng J 15: 511-15 D '24
Representative examples of automobile box cars built in 1924. il Ry R 76:45-9 Ja 3 '25
Representative examples of single sheathed automobile and furniture cars. il Ry R 74:26 Ja 5 '24
Saving millions by better loading. E: S. Evans. il Management & Adm 6:715-18 D '23
Simple device for shipping cars without boxing patented. diag Automotive Ind 51:1088 D 25 '24
Widespread use of railroads by automobile manufacturers. Comm & Fin Chr 121: 1977 O 24 '25

Tubing and hose

Compression fittings recommended. diags Soc Auto Eng J 13:508 D '23
Compression-type fittings extended. diags Soc Auto Eng J 16:591-2 Je '25
Compression-type fittings proposed; S. A. E. standards. diags Soc Auto Eng J 16:34-5 Ja '25; Automotive Ind 52:154, 155 Ja 22 '25; Discussion. Soc Auto Eng J 16:159-60 F '25
S.A.E. parts and fittings division report; flared-tube type fittings. diags Soc Auto Eng J 14:627-8 Je '24; Discussion. 15:27-9 Jl '24

Upholstery

Automobile upholstery leather. K. L. Herrmann and F. J. Radel. il diags Soc Auto Eng J 14:327-34 Mr '24; Discussion. 15:303-5 O '24
British and American automobile upholsteries. W: B. Dall. il Textile World 67:840-2 F 7 '25
Overstuffed chair comfort adapted to Nachman automobile upholstery. il Automotive Ind 50:1189 My 29 '24
Patching of leather perfected. Soc Auto Eng J 16:143-4 F '25; Automotive Ind 52:582 Mr 26 '25
Sanitary condition of upholstery in the closed car. A. Rogers. il Nation's Health 7:488-9 Jl '25
Special weave employed for new upholstering cloth. il Automotive Ind 53:753 O 29 '25
Trimming materials and style. H. T. Strong. il Soc Auto Eng J 14:438-43 Ap '24; Discussion. 15:302-3 O '24
Use of patched hides in body upholstery made possible by new method. il diag Soc Auto Eng J 14:228-30 F '24

Vibration

Free vibrations of an autocar. J. J. Guest. diags Engineering 120:367-8 S 18 '25

Visors

Two new type visors developed by McKinnon dash co. il Automotive Ind 53:251 Ag 13 '25

Weight

Lighter chassis is not only likely until body weight is decreased. W. L. Carver. il diags Automotive Ind 51:30-3 Jl 3 '24

Wheel shimmying

Correction of balloon-tire shimmying. R. B. Day. Soc Auto Eng J 15:506-7; Discussion. 507-10 D '24
Effects of balloon tires on car design. J. W. White. il diags Soc Auto Eng J 16:205-8; Discussion. 136-8, 620-6 F, Je '25
Engineers argue cause of wheel-shimmy. W. L. Carver. Automotive Ind 52:175-6 Ja 29 '25
Front wheel shimmying. W. R. Strickland. diags Soc Auto Eng J 16:227-31 F '25; Abstract. Automotive Ind 52:176 Ja 29 '25; Discussion. Soc Auto Eng J 16:134-5 F '25

AUTOMOBILES—Wheel shimmying—*Continued*
Front-wheel wobble. A. Healey. diags Automobile Eng 15:176-9 Je '25; Same abr. Automotive Ind 52:703-7 Ap 16 '25
Prevention of shimmy by hydraulic steering-control. J. W. White. il diags Soc Auto Eng J 17:490-2; Discussion. 492-3 N '25
Prevention of shimmying. R. B. Day. il diags Soc Auto Eng J 16:192-4 F '25; Abstract. Automotive Ind 52:179-80 Ja 29 '25; Discussion. Soc Auto Eng J 16:136-8 F '25
La suspension de la direction de la voiture automobile; shimmy et dandinement. G. Broulhiet. diags Soc Ing Civils Bul 78: 540-54 Jl '25
Wheel shimmying; its causes and cure. O: M. Burkhardt. diags Soc Auto Eng J 16:189-91 F '25; Excerpts. Automotive Ind 52:176-7 Ja 29 '25; Discussion. Soc Auto Eng J 16:134-5 F '25; Correction. 16:354 Mr '25

Wheels

Balloon tire wheels. il India Rubber W 70: 648 Jl '24
Boss bolts are superfluous on small diameter wheels. A. S. Van Halteren. il Automotive Ind 52:303 F 19 '25
Cast steel wheel for giant pneumatics. diags Automobile Eng 15:72 Mr '25
Disk wheel incorporates drop-base rim; designed by L. E. La Brie. diags Automotive Ind 50:1222 Je 5 '24
Drop-center rim suits balloon tires. H. Willshaw. diags Soc Auto Eng J 14:377-9 Ap '24
Dual spoksteel wheel. diags Automotive Ind 52:746-7 Ap 23 '25
Lanchester ventilated road wheel. diag Automotive Ind 53:21 Jl 2 '25
Measuring the slip of automobile driving wheels. Automotive Ind 52:1101 Je 25 '25
Motor-vehicle wheel-alignment. J: F. Duby. diags Soc Auto Eng J 13:453-8; Discussion. 458-60 D '23
Seiberling-Atwood flexible rubber automobile wheel. il India Rubber W 69:168 D '23
Tests show drop center rim in favorable light. Automotive Ind 52:618 Ap 2 '25
Wire wheels. W. W. Davison. il Automobile Eng 14:271-3 S '24

See also Automobiles—Axles; Tire rims—Manufacture; Tires, Automobile

Manufacture

Cleveland automatic hub machine. il Am Mach 59:821 N 29 '23
Machining automobile wheel hubs. il plans Mach 31:125 O '24
Planning the repetitive manufacture of automobile wheels. W: B. Ferguson. il chart diags Management & Adm 7:31-8 Ja '24

Patents

Wheel patent right upheld in Chicago. Automotive Ind 50:793 Ap 3 '24

Windows

Chain window lift of new type developed by Parsons mfg. co. diags Automotive Ind 51: 294 Ag 7 '24
Improvement in Rawlins window lift. il diags Automotive Ind 52:665 Ap 9 '25
Pontiac window regulator has interesting features. il diag Automotive Ind 51:120 Jl 10 '24
Ternstedt window regulator easily installed. il Automotive Ind 51:806-7 N 6 '24
Window lifting device works similarly to a shade roller. diags Automotive Ind 50:1271 Je 12 '24
Window regulators. S. W. Nicholson. Soc Auto Eng J 14:569-70 Je '24

Windshield fittings

Making windscreen fittings. il diags Automobile Eng 14:231-2 Ag '24

Windshields

Fisher self ventilating windshield used on Buick closed cars. diag Automotive Ind 51: 95-6 Jl 10 '24
Many faults are found in present day windshield design. K. Feilcke. diags Automotive Ind 51:202-5 Jl 24 '24
Wide use of one-piece windshield predicted. diags Automotive Ind 51:611-12 O 2 '24

AUTOMOBILES, Armored
Bullet-proof metal, Bovite, adapted for car bodies. il Automotive Ind 53:386 S 3 '25

AUTOMOBILES, Industrial
Business use of automobiles and trucks. Published in monthly numbers of System
Getting the maximum return from transportation equipment. J. H. Macbeth. Elec W 86:124-5 Jl 18 '25
Maintenance and operation of automotive equipment; report of committee of Pacific coast electrical association. il J Elec 52:420-1 Je 1 '24
Putting wheels under our sales and service. C: W. Patterson. il System 46:739-40+ D '24

See also Automobile departments; Automobiles, Salesmen's; Motor trucks

AUTOMOBILES, Military
Military motor transportation. 414p Coast artillery journal, Fort Monroe, Va. '23

AUTOMOBILES, Radio controlled
Radio-controlled automobile. H. Green. il diag Radio N 7:592+ N '25
Radio-controlled automobile. P. B. Hance, jr. il diag Radio N 7:774-5 D '25

AUTOMOBILES, Rebuilt. See Automobiles—Reconstruction

AUTOMOBILES, Salesmen's
Automobile expense control plans used by U.S. gypsum company. E. W. Dunham. Sales Management 7:1473-4+ S '24
Can I use automobiles profitably in my business? System 48:433-5+ O '25
Check-up shows growing use of better cars in sales work. il Sales Management 8:403-4 Mr 7 '25
Does an automobile really pay? W. G. Caldwell. il Sales Management 8:459-60 Mr 21 '25
Greater value from salesmen's automobile expense. J. J. Witherspoon. Ptr Ink 126:61-2+ Ja 10 '24
How we control our salesmen's calls. F. A. Werner. il System 48:322+ S '25
Managing the motorized sales force. E. W. Dunham. il Ptr Ink M 9:35-6+ S '24
Our most effective business-getting tool; smaller orders, divided territory, more frequent calls. J. Ewing. il System 46:285-7+ S '24
Passenger car as a selling aid. System 45: 34-6+ Ja '24
Sending the salesman around in a moving billboard. il Sales Management 8:157-8+ Ja 24 '25
Study of the 1926 models of autos suitable for salesmen. il Sales Management 9:229-30+ Ag 22 '25
Tool that makes salesmen's work 25% more effective. F. M. Stephens. System 47:376+ Mr '25
Using automobiles to increase profitable sales. E. W. Dunham. il System 47:764-5+ Je '25
We quadrupled our daily sales with automobiles. H. A. Sanders. System 48:82+ Jl '25
Where the salesman's car pays dividends. il map System 45:187-8+ F '24
Who should own the sales car? D. Douglas. System 46:468+ O '24
Why Austin-Nichols put sales and service on wheels. C: W. Patterson. Ptr Ink 130:149-50+ Mr 19 '25

See also Automobiles, Industrial

AUTOMOBILES, Steam

See also Motor trucks, Steam

Specifications

American steam passenger car specifications; tabulation. Automotive Ind 50:404-5; 52:416-17 F 21 '24, F 26 '25

AUTOMOBILES, Used. See Automobile industry and trade—Used cars

AUTOMOBILES and roads

Automobile sales and the engineer. F: E. Moskovics. Am Mach 60:309-10 F 28 '24

La circulation automobile et le problème actuel de la route en France. J. Fedi. Génie Civil 86:262-5 Mr 14 '25

Economic theory of highway grades; tests in Iowa give working equations for both automobiles and commercial vehicles. T. R. Agg. il diags Eng N 90:76-9 Ja 11 '23; Abstracts. Can Eng 45:236 Ag 14 '23; Good Roads 65:79 S 5 '23; Pub Works 54:356 N '23

Economy of good roads. Concrete 26:182 My '25

Future of automotive industries and highways are inter-dependent. H. L. Williams. Automotive Ind 52:140 Ja 22 '25

Influence of road conditions on the development of the modern motor vehicle. H. G. Burford. Engineering 118:874-6 D 26 '24

Natural vibration period of tires is cause of corrugations. R. J. Walker. Eng N 94:776-7 My 7 '25; Same (La détérioration des routes et son rapport avec la vibration naturelle des bandages d'automobiles). Génie Civil 87:45-6 Jl 11 '25; Abstract. Sci Am 133:332+ N '25

Relation of road surface to automobile tire wear. H. V. Carpenter. Eng & Contr (R & S) 64:33-9 Jl 1 '25

See also Motor trucks and roads; Road traffic

AUTOMOTIVE electric association

Summer meeting, White Sulphur Springs. C. P. Shattuck. Automotive Ind 51:563-6 S 25 '24

AUTOMOTIVE equipment association

Convention, New Orleans, Mar. 31-April 4. N. Adair. Automotive Ind 50:834-5 Ap 10 '24

AUTOMOTIVE industries

Distribution of automotive products. R. W. Sherman. Soc Auto Eng J 17:167-9; Discussion. 169-71 Ag '25

Glossary of automotive terms and instructions to exporters. U S Bur For & Dom Com Trade Promotion ser 3:1-13 '24

See also Airplane industry and trade; Automobile industry and trade; Motor cycle industry and trade; Motor truck industry and trade; Tractor industry and trade

Statistics

Preliminary automotive facts and figures for 1924, issued by the N.A.C.C. Automotive Ind 52:39 Ja 1 '25

Canada

Motor vehicle and the highway. chart Can Eng 49:319-20 S 15 '25

Russia

We can't sell cars to Russia now, but some day—. W. M. Wolff. il Automotive Ind 52: 107-8 Ja 15 '25

United States

Automotive barometer points to fair as half-year mark is passed. N. G. Shidle. Automotive Ind 53:41-3 Jl 9 '25

Automotive industry and national defense. C. L'H. Ruggles. map Soc Auto Eng J 14:319-22 Mr '24

Exports, imports and reimports of the automotive industry for December of 1924 and total for twelve months ending December 31, 1924. Automotive Ind 52:205 Ja 29 '25

Freight rate changes may cost industry millions. N. G. Shidle. Automotive Ind 51:953-4 D 4 '24

1923 biggest automotive export year. G. E. Quisenberry. Automotive Ind 50:464 F 21 '24

1925 looks like a good year but output records are not generally expected. N. G. Shidle. Automotive Ind 51:993-5 D 11 '24

1925 profits best indication of production progress. W. L. Carver. Automotive Ind 53:481-3 S 24 '25

Our industry today. N. G. Shidle. charts Automotive Ind 52:334-5 F 26 '25

Registrations as of July 1 show gain of 13.7% over last year. K. W. Stillman. Automotive Ind 53:81-5 Jl 16 '25

What the automotive map may look like in 1930. J. Dalton. Automotive Ind 50:699-702+ Mr 27 '24

AUTO-oxidation. See Oxidation

AUTOTRANSFORMERS. See Electric transformers—Autotransformers

AUTUMN business

Autumn industries. Moody's Inv Serv 17:277-80 Ag 20 '25

AVALANCHES

Snowslides. D. S. Olson. il Sci Am 130:404 Je '24

AVERAGE (co-insurance)

Case for the universal application of average to fire insurance. E. H. Minnion. Econ W n s 29:744-7 My 23 '25

AVERAGE (maritime law)

General average in marine insurance as a typification of universal equity. Econ W n s 30:599-601 O 24 '25

General average; principles and practice in the United States of America. E. W. Congdon. 2d ed. 273p Baker, Voorhis & co., New York '23

AVIATION

Amsterdam-Batavia flight reviewed. H. G. Fokker. Aviation 18:45 Ja 12 '25

Amundsen expedition. Aviation 18:601, 723 Je 1, 29 '25

Arctic exploration by aircraft. il map Sci Am 130:152-3 Mr '24

Arctic navigation. Aviation 18:701 Je 22 '25

Beneficence of atmospherics. R. A. W. Watt. il (supp) Roy Aeronautical Soc J 29:62-72; Discussion. 72-5 F '25

Dr Samuel Johnson on the art of flying. Aviation 16:177-8 F 18 '24

Experiences of the ZR-3 in crossing the Atlantic ocean and of the Shenandoah in making trip across the American continent. C. E. Rosendahl. Soc Auto Eng J 15:484-6 D '24

Flying in Alaska. il Aviation 17:1408 D 15 '24

French semi-world flight. il Aviation 16:482 My 5 '24

From Keyport to Porto Rico and back. C. J. Zimmerman. il Aviation 16:666-7 Je 23 '24

How we made the first flight. O. Wright. il Aviation 15:737-41 D 17 '23

Inverted flight in airplanes. Sci Am 131:173 S '24

MacMillan-navy expedition. Aviation 18:721; 19:122-3 Je 29, Ag 3 '25

Maughan spans continent between dawn and dusk. il Aviation 16:696 Je 30 '24

Operation of flying boats in the Mediterranean. C. R. Samson. Roy Aeronautical Soc J 29:114-26; Discussion. 127-31 Mr '25

Paul P. Scott crashes into mountain at 8000 ft. and lives to tell the tale. Aviation 18: 132 F 2 '25

Pioneering flight through Central America. Aviation 16:534-5 My 19 '24

Proposed airplane tour. Aviation 18:578 My 25 '25

R.A.F. display, June 27. Aviation 19:94-5 Jl 27 '25

Side lights on the Paris to Tokyo flight. il diags Aviation 17:774-6 Jl 21 '24

Thunderstorms and aviation. G. C. Simpson. il Roy Aeronautical Soc J 29:24-41; Discussion. 41-6 Ja '25

U.S. naval air expedition into the Arctic; airship Shenandoah and naval planes to explore vast unknown region of polar basin. Aviation 15:748-9 D 17 '23

U.S. navy to participate in Amundsen polar flight. Aviation 15:631 N 19 '23

AVIATION—*Continued*
Use of wind in flying. Aviation 17:994 S 15 '24

See also Aerodynamic laboratories; Aeronautics; Aeronautics, Commercial; Air ports; Air routes; Airplane races; Airplanes; Airships; Aviators; Balloon races; Flying boats; Gliders; Parachutes; Radio telegraph in aviation; Radio telephone in aviation; Seaplanes; Wind tunnels; *also* United States—Air service

Accidents

Aerial safety the new problem. il Safety Eng 50:217-20 O '25
Report on the English crash at Croydon. il Aviation 18:322-3 Mr 23 '25
Truth about flying hazards. map Spectator 115:29 S 3 '25

See also Airplane engines—Failures; Airships, Rigid—Failures; Aviation—Safety devices and measures

Altitude records

Development of airplane ceilings. Aviation 18: 694 Je 22 '25
Lieut. Macready's attempt for altitude record. il Aviation 16:40-1 Ja 14 '24
Prediction of airplane range; chart. Aviation 18:466 Ap 27 '25
Puzzle of true records in high flights. A. McAdie. Aviation 17:912 Ag 25 '24

Contact flying

Contact and refueling now accomplished in the air. H. H. Arnold. il Sci Am 133:90-1 Ag '25
Practical value of refueling airplanes in flight. H. H. Arnold. il Aviation 17:750-1 Jl 14 '24

Endurance records

New world's duration record. Aviation 15:716 D 10 '23

Medical aspects

Some medical aspects of air transport. C. B. Heald. il diag Roy Aeronautical Soc J 29: 246-61; Discussion. 261-8 Je '25

Records

American records which are not world records. Aviation 16:287-8 Mr 17 '24
New American records. Aviation 17:780 Jl 21 '24
New national records. Aviation 16:9 Ja 7 '24
New world's records. Aviation 16:147 F 11 '24
Official world records recognized by the F.A.I. Aviation 16:285-7 Mr 17 '24

Safety devices and measures

Aeronautical safety code approved. Soc Auto Eng J 16:581-2 Je '25; Aviation 18:600 Je 1 '25
Aircraft safety code issued. il Soc Auto Eng J 16:25-8 Ja '25
American aeronautical safety code. A. Halsted. il Nat Safety N 10:27-9 S '24

Speed records

France regains world maximum speed record; pilot Bonnet on Ferbois monoplane makes 278.38 mi.-hr. il diags Aviation 17:1426-7 D 22 '24
Past, present and future of airplane speeds; chart. Aviation 18:414 Ap 13 '25
World's maximum airplane speed record beaten. Aviation 15:598-9 N 12 '23

Transatlantic flight

Transatlantic voyage of ZR-III. maps Sci Am 131:115 Ag '24

Winter flying

Further notes on aviation in Canada. C. W. Stedman. il diags Roy Aeronautical Soc J 28:585-94 S '24

World flight, American, 1924

American world flight. Aviation 15:653; 16: 43, 306-7, 330-2, 452-3, 481-2, 508, 537, 564, 595, 620, 647, 671, 695; 17:726, 748, 780, 802-3, 862, 889, 915, 939, 966, 990, 1014-21, 1058, 1089 N 26 '23, Ja 14, Mr 24-31, Ap 28-Jl 28, Ag 11-O 6 '24
Around the world by air. C. P. McDarment. il Sci Am 131:230-2+ O '24
Radio story of the world flight. L. H. Baker. il Wireless Age 12:33-5+ O '24
Round-the-world flight proves reliability of modern airplane design. Automotive Ind 51: 654-6 O 9 '24
What is the world flight going to mean to commercial aviation? A. Klemin. il Automotive Ind 51:397-400 Ag 28 '24

World flights

British world flight. Aviation 16:451, 481-2; 17:749, 803 Ap 28-My 5, Jl 14, 28 '24
Flying around the world; the route laid down for the American fliers. C. P. McDarment. il map Sci Am 130:222-3 Ap '24
Foreign round-the-world flights. Aviation 16: 333-4 Mr 31 '24
Progress of the round the world flights. map Aviation 16:421 Ap 21 '24

AVIATION engines. See Airplane engines; Airship engines

AVIATION fields

See also Airships—Anchorage

AVIATION insurance. See Insurance, Aviation

AVIATION landing stations
Adequate landing-fields will develop a commercial-aviation industry. A. A. G. Fokker. Soc Auto Eng J 14:504-6+ My '24; Discussion. 14:607-8 Je '24
Arkansas falls in line. map Aviation 16:97-8 Ja 28 '24
Landing fields for airplanes in Washington. Aviation 18:553 My 18 '25
Preparation of landing field at United States naval air station, Lakehurst, N.J. il Eng & Contr (G C) 63:1079-82 My 20 '25
Preparing the night airway. E. D. Osborn. il Aviation 18:604-5 Je 1 '25
Some notes on aircraft landing field construction. A. Black. il Eng N 95:514-15 S 24 '25

See also Air ports; Airships—Anchorage

Bibliography

Municipal aeroplane landing fields. R. E. Gossage. Munic Ref Lib 11:3-4 Ja 7 '25

AVIATORS
Who's who in American aeronautics. Aviation 18:695, 722; 19:9, 37, 98, 124, 150 Je 22-Jl 13, 27-Ag 10 '25

Diseases and hygiene

Airplane deafness. V. T. Scott. Aviation 17: 808 Jl 28 '24
Dangers of high speed and acrobatic flying. L. H. Bauer. il diag Aviation 16:174-6 F 18 '24
Some medical aspects of air transport. C. B. Heald. il diag Roy Aeronautical Soc J 29: 246-61; Discussion. 261-8 Je '25

Equipment

Equipment required for high altitude flying. P. B. King and T. Carroll. Aviation 16: 668-9 Je 23 '24

Physical examination

High-altitude tests without leaving the ground. Sci Am 129:401 D '23
Safeguarding the airplane pilot. B. Sparks. il Sci Am 133:164-5 S '25

Salaries

Airway pilots' salaries in England, France, and the United States. Aviation 16:532 My 19 '24

AVIGNON, France
Avignon. S: Chamberlain. il Am Arch 126:263-8 S 24 '24
Towered cities. G. G. King. il Am Inst Arch J 12:103-9 Mr '24

AVOGADRO'S law
New determination of the constant *N* of Avogadro. L. M. Alexander. Philos Mag 6th ser 49:663-4 Ap '25

AVOGADRO'S law—*Continued*
New determination of the constant *N* of Avogadro, based on its definition. P. Lecomte du Noüy. Philos Mag 6th ser 48:664-78, pl 13 O '24

AVON, Old Farms
School for boys at Avon, Conn. il plan Am Arch 128:391-4 N 5 '25

AXLES
See Automobiles—Axles; Bearings; Car axles; Locomotives—Axles; Motor buses—Axles

AYRES, Leonard P.
Ayres, who figures for the U.S. F. C. Kelly. por Nation's Business 12:34-5 Ap '24

AZELAIC acid
Relative stability of open-chain dibasic acids containing odd and even numbers of carbon atoms. W: A. P. Challenor and J. F. Thorpe. Chem Soc J 123:2480-5 O '23

AZIDES
Action of azides on toluquinone. F: D. Chattaway and G: D: Parkes. Chem Soc J 127: 1307-11 Je '25

AZIDO-carbondisulfide
Azido-carbondisulfide; reaction of azido-carbondisulfide and of free thiocyanogen with hydrogen trinitride (hydronitric acid) in certain non-aqueous solvents. F. Wilcoxon, A. E. McKinney and A. W. Browne. Am Chem Soc J 47:1916-21 Jl '25

AZIDO-dithiocarbonic acid
Azido-dithiocarbonic acid; methods for the determination of the azido-dithiocarbonate radical, $SCSN_3$. A. W. Browne and G. B. L. Smith. Am Chem Soc J 47:2698-2702 N '25

AZIMUTH
Checking the azimuth by a sun observation. G: L. Hosmer. diag Boston Soc C E J 11: 109-14 Mr '24

Simple form for the azimuth equation. L. B. Stewart. Can Eng 46:475-7 Ap 29 '24
See also Meridian

AZO compounds
Additive formation of four-membered rings; the addition of azo-compounds to ethylenes and some transformations of the dimethylene-1-:2-di-imine ring. C. K. Ingold and S. D. Weaver. Chem Soc J 127:378-87 F '25

Benzene in its relation to the azo dyestuffs. W. B. Nelson. Am Dyestuff Rep 13:392-6+ Je 16 '24

Chemical constitution and properties of azo dyestuffs. A. Schedler. Soc Chem Ind J 44: 392-400 Jl 31 '25; Abstract. Chem Age (Lond) 12:247 Mr 14 '25

Colour of monocyclic substances calculated by assigning an absorption band to each possible tautomeric form. J. Moir. Chem Soc J 123:2792-2803 N '23

Composition of some products used for the production of insoluble azo colours. F. M. Rowe and S. G. Corbishley. Soc Dyers & Col J 41:278-9 Ag '25

Electrometric studies on azo- and hydrazo-compounds. E. Biilmann and J. H. Blom. Chem Soc J 125:1719-31 S '24

Identification of insoluble azo colours on the fibre, and of azo pigments in substance. F. M. Rowe and C. Levin. Soc Dyers & Col J 40:218-28 Jl '24

Mercury derivatives of azo dyes. A. Proskouriakoff and G: W. Raiziss. Am Chem Soc J 47:1974-9 Jl '25

N,N′-dimethylenesulfurous acid-3,3′-diamino-4,4′-dihydroxy-azobenzene: a nitrogen compound analogous to sulfarsphenamine. W. G. Christiansen. diag Am Chem Soc J 46: 497-503 F '24

Reduction products of azo dyes. W. C. Homes. Am Dyestuff Rep 14:647-50, 686-7+, 732-3+ O 5-N 2 '25

Stereoisomeric azo-dyes. G. T. Morgan and D. G: Skinner. Chem Soc J 127:1731-42 Jl '25

AZOBENZENE
Mechanism of reduction of azobenzene by organomagnesium halides. H: Gilman and R. M. Pickens. Am Chem Soc J 47:2406-16 S '25

AZOCYANINES
Synthesis of an azocyanine. F. M. Hamer. Chem Soc J 125:1348-57 Je '24

AZONILES
Dyeing acetate silk. C: E. Mullin. Am Dyestuff Rep 14:462-3 Jl 13 '25

AZOPHOR red
After-treatments with azophor red and azophor orange MN. W. J. Chester. Textile Col 47:374 Je '25

B

BABBITT metal
Babbitt metal. Brass W 21:236 Jl '25
Babbitt metal. J: S. Dean. il Aera 14:558-61 O '25; Same. Elec J 22:515+ O '25
Babbitt metals and how to babbitt bearings. E. Andrews. Power 59:56-7 Ja 8 '24; Same. Paper Tr J 78:57-8 Mr 6 '24
Something about babbitt. B. H. Jarvis. Brass W 21:59 F '25
Tricks in casting babbitt bearings. J. V. Romig. diags Brass W 19:409-10 D '23

Testing

Effect of impurities on the compressive strength and Brinell hardness of babbitt metal at normal and elevated temperatures. J: R. Freeman, jr. and P. F. Brandt. Am Soc T M Pro 24 pt 1:253-7 '24
Influence of the ratio of length to diameter in the compression testing of babbitt metals. J: R. Freeman, jr. and P. F. Brandt. Am Soc T M Pro 23 pt 2:150-5 '23

BABBITTING
Babbitt metals and how to babbitt bearings. E. Andrews. Power 59:56-7 Ja 8 '24; Same. Paper Tr J 78:57-8 Mr 6 '24
Babbitting air brake handles. il Elec Ry J 63:779-80 My 17 '24
Babbitting bearings by machinery. C. H. Franklin. il Am Mach 63:548 O 1 '25
Babbitting brasses for subway trains. F. H. Colvin. il Am Mach 60:629-30 Ap 24 '24
Babbitting car journals. W: J. Reardon. Metal Ind 23:182-3 My '25
Babbitting cast iron. Metal Ind 23:9 Ja '25
Babbitting crossheads to finish dimensions. F. H. Colvin. il diags Am Mach 59:803-6 N 29 '23
Babbitting fixture for small bearings. F. M. Weston. diags Mach 32:54 S '25
Babbitting pots and equipment. il Elec J 21: 490+ O '24
Cleveland big end piston rod bearings are die cast in place. M. R. Wells. il Automotive Ind 52:858-60 My 14 '25; Same. Am Mach 62:770-2 My 14 '25
Making steam turbine diaphragm blades. il Iron Age 114:1047-51 O 23 '24
Precautions necessary in the use of babbitt. M. C. Cockshott. il Ind Eng 83:42-3 Ja '25
Proper equipment improves babbitt room results. il diag Elec Ry J 65:93-4 Ja 17 '25
Rebabbitting motor bearings. G. W. Baumgarten. Elec J 20:456-7 D '23
Survey of armature, axle and journal bearing practice. il Elec Ry J 64:227-35 Ag 16 '24
Using the welding outfit in renewing babbitt bearings. Power 59:259, 833-4 F 12, My 20 '24
See also Bearings

BABCOCK, Stephen Moulton
Appreciation. L: Kahlenberg. por Ind & Eng Chem 16:1087-8 O '24

BACILLUS coli
Disturbing factors in the presumptive test for B. coli. G. B. Leitch. Am Water Works Assn J 13:186-92 F '25

BACILLUS coli—*Continued*
Isolation of the colon group in water. N. J. Howard and R. E. Thompson. Can Eng 48: 413-17 Ap 21 '25; Same. Eng & Contr (W W) 64:597-606 S 9 '25

BACK stops (machinery)
Back stop for second operation work on capstans and automatics. diag Automobile Eng 15:228 Jl '25

BACK strain
Prevention, rehabilitation, and medicolegal aspects of sprained back. J: N. Bassin. bibliog J Ind Hygiene 5:293-8 D '23
Study of back strains. E: B. Simmons and W. I. Clark. J Ind Hygiene 7:391-5 S '25

BACKACHE
Back pain, with special reference to sacrolumbar and sacroiliac lesions and the application of physiotherapy in treatment. C. S. Wright. U S Bur Labor Statistics Bul 385: 100-12 '25
Etiology, diagnosis, and treatment of back pains. T. B. Acker. U S Bur Labor Statistics Bul 385:82-6 '25

BACKERT, Adolphus Otto, 1876-1925
Sketch. por Iron Age 115:1291 Ap 30 '25; Iron Tr R 76:1128-9+ Ap 30 '25; Foundry 53: front My 1 '25; Marine R 55:198 My '25; Brass W 21:171 My '25

BACON, Henry, 1866-1924
Five architects and one truth. Am Inst Arch J 12:401-5 S '24
Sketch. por Am Arch 125:195-6 F 27 '24; Arch Forum 40:87 Mr '24; Arch Rec 55:274-6 Mr '24
Sketch. R. Cortissoz. Am Inst Arch J 12: 276-7 Je '24

BACTERIA, Nitrifying
Proteolytic action of bacillus granulobacter pectinovorum and its effect on the hydrogen-ion concentration. W. H. Peterson, E. B. Fred and B. P. Domogalla. Am Chem Soc J 46:2086-90 S '24

BACTERICIDES. See Disinfection and disinfectants

BACTERIOLOGY
Bacteria in tannery soak waters. J. A. Wilson and C. J. Vollmar. Ind & Eng Chem 16:367-9 Ap '24
Bacterial growth in enamel slip. J. G. Wahlin. Am Cer Soc J 7:160-2 Mr '24
Bacteriology. C. H. Browning. 256p [bibliog. p. 253-4] Holt '25
Civilization and the microbe. Sci Am 130:172 Mr '24
Influence of micro-organisms in the weathering of wool and cotton. S. R. Trotman and R. W. Sutton. il Soc Chem Ind J 43:190-2 Je 13 '24; Same. Soc Dyers & Col J 40:304-6 S '24
Practical bacteriology. A. Cunningham. 195p Van Nostrand '24
Some relations of bacteriological chemistry to industry. G. B. Reed. Can Chem & Met 9:144 Je '25

See also Antiseptics; Bacillus coli; Disinfection and disinfectants; Food—Bacteriology; Heat as a disinfectant; Iron bacteria; Microorganisms; Sewage disposal; Tuberculinic acid; Water—Bacteriology

Culture media

Adjustment of pH of culture media under sterile conditions. L. M. Christensen and E. I. Fulmer. diags Ind & Eng Chem 17:935 S '25
Isolation of the colon group in water. N. J. Howard and R. E. Thompson. Can Eng 48: 413-17 Ap 21 '25; Same. Eng & Contr (W W) 64:597-606 S 9 '25

See also Agar-agar; Gentian violet

Study and teaching

Training of chemists in bacteriology. D: Ellis. Soc Chem Ind J (Chem & Ind) 43:589-91, 1075-6 Je 6, O 31 '24; Discussion. J. C. Drummond. 43:666-7 Je 27 '24

BADGE systems. See Employees—Identification

BAEKELAND, Leo Hendrik, 1863-
Portrait. Chem Age 32:361 S '24
President of American chemical society. por Chem & Met Eng 30:140 Ja 28 '24

BAFFLES
Details of special baffles. il diags Power Pl Eng 28:36-7 Ja 1 '24
Increased efficiency through changes in boiler baffling. H. E. Osgood. diags Power 60: 769-70 N 11 '24
Use of the baffle in flue pipes. F. W. Dye. diags Gas J (Lond) 169:528-9 Mr 4 '25
Water baffling in boiler drums is needed to prevent priming. diags Power Pl Eng 28: 5-6 Ja 1 '24

BAGASSE
Conveying of bagasse as boiler fuel. Cassier's Ind Management 12:488 O '25
De Vains process for paper from waste fibrous materials. J. F. Clerc. flow sheet il diags Chem & Met Eng 30:259, 262-5 F 18 '24; Same. Paper Tr J 78:43-7 F 21 '24
Dutch ovens for bagasse. J. O. Frazier. diags Power 60:682-3 O 28 '24
Home-made ejector for handling bagasse makes big saving in labor. E. C. Bliss. il Power 61:956 Je 16 '25
Manufacture of paper from bagasse. C. W. Mason. Paper 34:240 My 29 '24

BAGGAGE

See also Motor bus lines—Baggage

BAGGAGE and express cars
Control equipment mounted inside baggage cars. C. R. Seybold. il Elec Ry J 65:580-1 Ap 11 '25
New passenger equipment for the T.H. & B. il Ry Mech Eng 98:422-4 Jl '24

BAGNULO engine
Bagnulo engine and gasifier; abstract. diag Mech Eng 46:96 F '24

BAGS
1923 bag census. Textile World 67:2839 Ap 25 '25

See also Mail bags

BAGS, Ballast. See Ballast bags

BAGS, Cement. See Cement bags

BAGS, Paper. See Paper bags

BAHAI temple, Chicago
Composite foundations for large temple building. diags plans Eng N 91:842-3 N 22 '23

BAILEY, Edgar Henry Summerfield
Sketch. E. E. Slosson. por Ind & Eng Chem 16:316-17 Mr '24

BAILEY, George Herbert, 1852-1924
Obituary; Dr G. H. Bailey. Soc Chem Ind J (Chem & Ind) 43:597 Je 6 '24

BAIN, H. Foster
New secretary of A.I.M.E. Eng & Min J 119: 935, 996 Je 6, 20 '25

BAKELITE
Hélices d'aéronautique construites en bakelite agglomérée, ou micarta. Génie Civil 84:458 My 10 '24
Hochspannungs-isolationen aus hartpapier. W. Demuth. il Elektrotech Zeit 45:646-9 Je 19 '24
L'industrie française de la résine synthétique (bakelite). G: Kimpflin. Génie Civil 84:556 Je 7 '24
Making and testing material for non-metallic gears. F. H. Colvin. il Am Mach 63:725-8 N 5 '25
Story of bakelite. J: K. Mumford. 80p Robert L. Stillson co., New York '24

Advertising

Bakelite's round-robin advertising comes home to roost. C: G. Muller. Ptr Ink 131: 133-4+ My 7 '25

BAKER, George F., 1840-
George F. Baker, benefactor of business. J: W. Harrington. por Bankers M 109:185-92 Ag '24

BAKER, George F.—*Continued*
Geo. F. Baker, one of the founders. por Am Bankers Assn J 18:220-1 O '25
Mr Baker and Mr Morgan. M. Sykes. Comm & Fin 14:160 Ja 21 '25
Revealing a great, but little known power in American finance. Am Bankers Assn J 17:503-4+ F '25
Testimonial to George F. Baker. Comm & Fin Chr 120:275-8 Ja 17 '25

BAKER, Oregon
Streets
Apportionment of street improvement costs at Baker, Oregon. P. H. Anderson. Eng N 95:474-5 S 17 '25

BAKERS and bakeries
American baking industry, 1849-1923. H. Kyrk and J. S. Davis. 108p Stanford. Univ. press, Stanford Univ., Calif. '25
Baking and biscuit companies. Moody's Inv Serv 17:330 O 8 '25
Bread making in the modern bakery. R. S. Billups. Monthly Labor R 17:1225-36 D '23
Commercial bread baking load for gas. H. S. Babb. il Gas Age 54:64-6+ Jl 12 '24
Conveying under difficulties in a cake bakery. G: F: Zimmer. diags Cassier's Ind Management 11:189-92 Ap 3 '24
Cooperative bakeries in the United States. Monthly Labor R 21:628-9 S '25
Development and operation of cooperative bakeries in the United States. Monthly Labor R 20:1376-8 Je '25
Electric baking ovens at the Bakers' exhibition. il Elec R (Lond) 97:644-5 O 23 '25
Electric oven bakes 3,600 loaves of bread hourly. il Elec W 86:757 O 10 '25
Evolution of the pretzel. J. C. Smith. il Am Gas J 121:813-14+ S 6 '24
Gas in neighborhood bakeries. E. D. Milener. Am Gas J 122:329-30+ Ap 18 '25
How sales leadership can be obtained in bakery field. Ptr Ink 125:157-8+ D 6 '23
Large bakery merger. Bradstreet's 52:735 N 15 '24
Making the staff of life by machinery. il Sci Am 133:48-9 Jl '25
Mechanical handling machinery at the British Empire exhibition, Wembley. il Cassier's Ind Management 11:417-20 S '24
Modern bakery uses electricity to operate all equipment. il J Elec 55:96-7 Ag 1 '25
Night work in bakeries. Int Labour R 9:558-72, 680-707; 10:562-5 Ap-My, O '24
Problem of delivery equipment; baking industry. W. Eldred. Management & Adm 8: 599-604 D '24
Refrigeration and air conditioning in the bakery. C: A. Glabau. il Refrig Eng 11:18-20; Discussion. 20-1 Jl '24
Refrigeration as applied to the baking industry. W. W. Reece. Refrig Eng 10:205-6 D '23
Sanitary bakery safeguards the common health. H. E. Barnard. il Nation's Health 7:183-5 Mr '25
Straight line methods of handling. M: W. Potts. il Ind Management 69:157-62 Mr '25
See also Biscuit making machinery; Bread; Pie

Advertising
Planning direct advertising for the baking industry. R. E. Ramsay. il Inland Ptr 76: 247-50 N '25

BAKERS' itch
Abstract of report on bakers' itch. A. C. Parsons. il J Ind Hygiene 5:410-33; Bibliography. 433 Mr '24

BAKING
Experimental milling and baking (including chemical determinations). J. H. Shollenberger, W. K. Marshall and D. A. Coleman. U S Agric Bul 1187:1-54 '24
First principles of the science of baking. W: Jago. 192p Bakers' helper co., Chicago '23
Siebel's manual for bakers and millers. 2d ed., rev. & enl. 232p Siebel institute of technology, Chicago '24
Thorough practical course in scientific baking. E: W. Habermaas. Rev. ed. 402p E: W. Habermaas, Cincinnati '24
See also Bakers and bakeries; Biscuits; Bread; Cake; Flour; Gas ovens

BAKING powder
Selling baking powder by helping bakers sell cakes. C. M. Harrison. Ptr Ink M 9:99 D '24
See also Calumet baking powder company

BALANCE of trade
Are we a creditor or debtor nation? R: H. Tingley. Am Ind 24:33-4 Jl '24
Balance of international payments of the United States in 1924. R. S. Tucker. U S Bur For & Dom Com Trade Information Bul 340:1-28 '25; Summary. Econ W n s 29:693-4 My 16 '25
Balance of trade in France and Germany. Economist 100:796-7 Ap 25 '25
Canada's balance of international indebtedness, 1900-1913. J. Viner. 318p Harvard univ. press, Cambridge '24
How shall a creditor nation avoid payment? H. P. Willis. Annalist 25:707 My 25 '25
Memorandum on balance of payments and foreign trade balances, 1910-1923. 2v League of nations, Geneva '24

BALANCE sheets
Analysis of statements. H. A. Finney and H. P. Baumann. J Account 40:371-83 N '25
Applying ratios in actual practice. W. H. Justin. Credit M 26:14-15+ F '24
Balance sheet analysis. A. Wall. Management & Adm 8:521-4 N '24
Balance-sheet; its preparation, content and interpretation. C: B. Couchman. 288p Journal of accountancy, New York '24
Balance-sheet uniformity. L: G. Peloubet. Paper Tr J 77:60 D 20 '23
Balance sheets. C: B. Couchman. Elec Ry J 64:702-3 O 18 '24
Cross section of a business; digging out facts the balance sheet doesn't show. H. F. Seward. Credit M 26:13+ Mr '24
Method of balance sheet analysis. S. Gilman. Management & Adm 8:147-50 Ag '24
Practical balance sheet analysis. G. M. Pelton. Management & Adm 10:27-8 Jl '25
Principles which should govern the determination of capital and the amounts available for distribution of dividends in the case of corporations, with special reference to the system of capital stocks without a par value. S. Gundelfinger. J Account 37: 331-5, 420-31 My-Je '24
Statement analysis and preparation of statements. Bankers M 110:1047+; 111:81+, 237+, 401+ Je-S '25
Use of financial ratios. Harvard Business R 4:79-93 O '25
What most balance sheets don't tell. C. E. Woods. Comm & Fin 13:1601-2, 1648-50 Ag 27-S 3 '24
See also Financial statements

BALANCER sets
Kleine kompoundierte ausgleichaggregate. L. Zimmermann. diags Elektrotech Zeit (special no.) 46:13-14 Mr 1 '25

BALANCES
Application of the ultramicrometer to the microbalance. R. Whiddington and F. A. Long. Philos Mag 6th ser 49:113-21 Ja '25
Automatic and continuous recording balance. J. R. H. Coutts and others. J Fr Inst 199:25-6 Ja '25
Construction of simple micro-balances. H. J: Denham. bibliog il diag Textile Inst J 15: T10-13 Ja '24
Die schaltwage und ihre anwendung als grosswage. F. Einecke. il diags Zeit Ver Deutsch Ing 69:98-9 Ja 24 '25
Studies with the microbalance; the photochemical decomposition of silver bromide. E. J. Hartung. diag Chem Soc J 125:2198-2207 N '24
Weighing apparatus used in the rubber industry. il India Rubber W 70:781-2 S '24
See also Eötvös balance; Scales

BALANCES, Aerodynamic. See Aerodynamic balances

BALANCING machines
Balancing large rotating apparatus. L. C. Fletcher. il diags Elec J 21:5-10 Ja '24; Abstract. Mech Eng 46:157 Mr '24
Balancing machine for flywheels and other short parts. Iron Age 116:688 S 10 '25
Dynamic balance of small high-speed armatures. W: E. Trumpler. il diags Elec J 22:36-41 Ja '25
Gisholt flywheel-type balancing machine. il Am Mach 63:450 S 10 '25; Mach 32:73 S '25
Rotative balancing. R: Soderberg. il diags Mach 31:439-44 F '25
Über neuere dynamisch-statische wuchtmaschinen. H. Hort. il diags Elektrotech Zeit 46:1073-8 Jl 16 '25

BALANCING of machinery
Accurate balancing of machine rotors. C. R. Soderberg. il diags Power Pl Eng 29:388-9 Ap 1 '25
Das auswuchten umlaufender maschinenteile. Sass. diags Elektrotech Zeit 45:239-42 Mr 20 '24
Balancing feature of mills. J: Herman. diags Eng & Min J 118:143 Jl 26 '24; Discussion. P. C. Forrester. 118:501-2 S 27 '24
Balancing four-cylinder engines by bob weight on connecting rod cap. diag Automotive Ind 51:1057-8 D 18 '24
Balancing high-speed fans. A. L. Greene. il chart Iron Age 112:1512-13 D 6 '23
Balancing of automobile engines. H. S. Rowell. diags Automobile Eng 14:119-23 Ap '24
Blackstone synchro-balance engine. diag Automotive Ind 51:917 N 27 '24
Engine balance. P. Cormac. Sci Am 133:33-4, 133+ Jl-Ag '25
Engine balancing calculations. M. Platt. diags Automobile Eng 14:243-9, 275-81 Ag-S '24
How Packard crankshafts are balanced. il Mach 31:675-8 My '25
Hydraulic balance obtained in double suction pump. il Power Pl Eng 29:314-15 Mr 1 '25
Importance of balancing high-speed pulleys. D. A. Hampson. Mach 30:362 Ja '24
Method of balancing armature by use of rails. il Ind Eng 82:303 Je '24
Michell crankless engine. E. C. Moyle. diags Automobile Eng 15:41-3 F '25
Ein neuer auswuchtapparat. F. Punga. il diags Elektrotech Zeit 45:713-14 Jl 3 '24
Neues verfahren zum angenäherten statischen ausbalancieren von rotierenden körpern. J. Bojko. il Elektrotech Zeit 45:1436-9 D 25 '24
Practical balancing of a V-type engine crankshaft. D. E. Anderson. il diags Soc Auto Eng J 14:409-14 Ap '24
Practical balancing of engine components. A. A. Bull. diags Soc Auto Eng J 14:527-31 My '24
Practical methods of engine-balancing. L. L. Roberts. il Soc Auto Eng J 14:452-6 Ap '24
Preparations for rebalancing a small turbo-generator set. V. R. Chadbourne. diag Power 62:416 S 15 '25
Production aspects of balancing; symposium. il Soc Auto Eng J 14:354-7 Mr '24
Vibration problem in engineering. C. R. Soderberg. il diags Elec J 21:89-97 Mr '24
See also Balancing machines

BALATA
Determination of balata in balata-rubber mixtures. J. T. Charleson. India Rubber W 72: 410 Ap '25
Studies of the physical properties of balata and rubber. C. R. Park. Ind & Eng Chem 17:152-60 F '25

BALBIANO'S acid
Ring-chain tautomerism; the structure of Balbiano's acid. E. Rothstein, A. Stevenson and J. F. Thorpe. Chem Soc J 127:1072-80 My '25; Abstract. Soc Chem Ind J (Chem & Ind) 44:332 Mr 27 '25

BALCONIES
Cantilever balcony framing for special conditions. D: C. Coyle. diags Eng N 95:67 Jl 9 '25

BALDWIN, L. W.
Let work begin—a slogan that wiped out a deficit. W: A. McGarry. Forbes 15:764-6 Mr 15 '25

BALDWIN locomotive company
Baldwin locomotive company. Moody's Inv Serv 16:113-16 Mr 13 '24
Baldwin locomotive works common stock. Moody's Inv Serv 16:280 Jl 17 '24

BALING presses
See also Bundling machines, Scrap metal

BALL bearings
Anti-friction bearing applications for heavy duty; abstracts. J. B. Dahlerus. diags Engineering 119:208-10, 239-40 F 13-20 '25; Engineer 139:197-8 F 13 '25; Discussion. Engineering 119:184-6, 260, 267-9 F 13, 27 '25; Engineer 139:180, 237 F 13, 27 '25
Anti-friction bearings for electric motors. C. H. S. Tupholme. diags Elec R (Lond) 96: 447-8, 509-10 Mr 20-27 '25
Anti-friction bearings lower transportation costs from face to railroad car. F. H. Kneeland. il diags Coal Age 25:603-6 Ap 24 '24
Application of ball bearings to general-purpose motors. diag Ind Eng 82:502-3 O '24
Application of ball bearings to machine tools. diags Mach 30:776-81 Je '24
Application of ball bearings to machine tools. B. M. W. Hanson. il diags Mach 30:355-61 Ja '24
Ball-bearing mounting methods; reference-book sheet. diags Am Mach 63:485 S 17 '25
Ball bearing spur gear chain block. il Marine Eng 30:176 Mr '25; Power Pl Eng 29:411 Ap 1 '25
Ball bearings applied to machine tools. T. C. Delaval-Crow. diags Mach 31:454-9 F '25
Changes that have taken place in bearings. L. A. Hillman. diags Ind Eng 83:127-30 Mr '25; Same cond. W Soc E J 30:6-8 Ja '25
Changing housings to use ball bearings. R. W. Drake. il diags Ind Eng 82:216-19+ My '24
Comparaison des paliers à billes et à rouleaux; applications au matériel des chemins de fer. A. Bijls. diags Génie Civil 84:159-61 F 16 '24
Design of ball bearing closures. T. C. Delaval-Crow. diags Am Mach 60:453-7 Mr 27 '24
Distribution of lead on the balls and rollers of ball and roller bearings. J: Goodman. diags Engineering 119:753-5 Je 19 '25
Do ball and roller bearings justify their cost? H. Maxwell. il Ind Eng 83:12-16 Ja '25; Same. W Soc E J 30:1-5 Ja '25; Discussion. Ind Eng 83:16-18 Ja '25; W Soc E J 30:11-12 Ja '25
Figures that prove the value of ball bearings. W. O. Sims. Factory 33:394 S '24
Forces acting on ball-bearing and roller-bearing connecting rods. N. K. Stitt. diags Mech Eng 46:223, 363-5 Ap, Je '24
General properties of ball bearings. H. Styri. il diag Mech Eng 47:490-2 Je '25
Handbook on ball and roller bearings. A. W. Macaulay. 378p Pitman '24
How and why ball bearings are used on car and truck crankshafts. P. M. Heldt. diags Automotive Ind 51:282-5 Ag 7 '24
Improvements made in ball-thrust bearing to insure positive lubrication. G. S. Neeley. diags Power 61:502-3 Mr 31 '25
Installation and maintenance of ball bearings. H. N. Parsons. Am Mach 62:731-2 My 7 '25
Die lebensdauer von kugellagern. A. Palmgren. Zeit Ver Deutsch Ing 68:339-41 Ap 5 '24
Lubrication of ball bearing hanger boxes. Ind Eng 83:351-2 Jl '25
New ball-bearing numbers proposed. Soc Auto Eng J 17:413-14 N '25
Operation and application of the ball bearing. T. C. Delaval-Crow. diags Am Mach 63:295-9 Ag 20 '25
Possible improvements in bearing service. G. A. Van Brunt. Ind Eng 82:264-6; Discussion. 266-70+ Je '24

BALL bearings—*Continued*
Selection of ball and roller bearings for electrical machines. T. D. Trees. bibliog Inst E E J 62:782-90 S '24; Abstract. Electrician 93: 496+ O 31 '24; Discussion. Inst E E J 63: 679-86 Jl '25
Simplifying the installation of ball bearings on main lineshafts. D. A. Hampson. il Ind Eng 82:300-1 Je '24
Spiro ball bearing. Mech Eng 47:930 N '25
Strom deep groove ball bearings. il Automotive Ind 52:586 Mr 26 '25
Swedish N. K. A. disk and ball bearings of high carrying capacity introduced here. il diags Automotive Ind 51:918-19 N 27 '24; Am Mach 61:864 N 27 '24; Iron Age 114: 1610 D 18 '24; Mach 31:318 D '24; Bus Transportation 4:89+ F '25
Truck and bearing practice. C. Harmel. Elec Ry J 64:319-20 Ag 30 '24
Use of ball bearings on mine locomotive motors. C. A. Atwell. il diags Elec J 21:513-16 N '24
Verschleissversuche mit kugellager-chromstahl. H. Redenz. il Stahl & Eisen 44:1703-8 D 18 '24
Widths of first six sizes of wide-type ball bearings to be increased. Soc Auto Eng J 14: 339 Mr '24

See also Bearings; Disk bearings; Roller bearings

Manufacture

Ball bearings in the making. il Am Mach 62:757-61, 799-802; 63:11-14 My 14-21, Jl 2 '25
Heat treatment of ball and roller bearings. J. K. Wood. diag Am Mach 61:929-31 D 11 '24
Impressive story of Fiat. J. A. Lucas and F. E. Bardrof. il Am Mach 60:655-9, 693-6 My 1-8 '24
Making and testing steel balls. K. H. Lansing. il Iron Tr R 73:1549-52 D 6 '23
Making ball bearings for automobiles. H. R. Simonds. il Iron Tr R 74:345-9 Ja 31 '24
Making housings for ball bearings. il Am Mach 62:67-70 Ja 8 '25
Making large ball races. C. D. Michener. il Am Mach 63:280-1 Ag 13 '25
Production work on ball bearings. il Am Mach 61:692-3 O 30 '24

Testing

Carrying capacity of ball bearings made of stainless steel. A. Hultgren. Am Soc T M Pro 24 pt 2:304-9 '24
Comparison of ball and roller bearings with plain bearings by means of electrical tests on a spinning mule. W. E. Baker. il diags plan Textile Inst J 16:T290-304 S '25
Tests of ball bearings for rotating-beam fatigue machines. L. B. Tuckerman and C. S. Aitchison. il Am Mach 61:369-70 S 4 '24; Discussion. H. Styri. 62:604 Ap 16 '25

BALL mills
Ball- and tube-mill liners. W: T. W. Miller. diags Eng & Min J 118:615-17 O 18 '24
Bonnot unit-bar ball mill. il diags Power 61: 627 Ap 21 '25
Comment on ball milling. H. Hardinge. Eng & Min J 116:1125 D 29 '23
Development of the Hardinge mill. J. C. Farrant. il Chem Age (Lond) 12:300-1, 405-7 Mr 28, Ap 25 '25
Experimental study of ball-mill grinding. D. H. Fairchild. il Eng & Min J 116:845-6 N 17 '23
Fine grinding in ball mills. A. E. Feust. Eng & Min J 116:859-60 N 17 '23
Rubber-lined ball mill. Chem & Met Eng 29: 935-6 N 19 '23
Rubber lined ball mills in mining and cement industries. il India Rubber W 69:153-4 D '23; Same abr. Concrete 24:sup47 Mr '24

See also Tube mills

BALLAST
Ballast sections on French railways. Eng N 91:1021 D 20 '23
Clough ballast weeding machine, New York Central. il Ry R 77:16 Jl 4 '25
Handling ballast with bucket loader. il Eng & Contr (G C) 64:885 O 21 '25
Method of repairing and renewing ballast deck trestles. Eng & Contr (Ry) 60:1095-7 N 21 '23
Les modifications actuellement proposées pour les profils du ballast des voies ferrées. Génie Civil 83:548-9 D 1 '23
Rebuilt plant for rock ballast supply. il Ry R 77:98-9 Jl 18 '25
Report on rail laying and ballasting in multiple track territory. Ry Age 77:499-500 S 20 '24
Track ballasting on C.P.R. Eng & Contr (G C) 63:1128-9 My 20 '25
Vacuum ballast cleaning machine, Pennsylvania railroad. Ry R 74:508 Mr 15 '24; Same. Eng & Contr (Ry) 61:852 Ap 16 '24

See also Cars, Ballast; Railroads—Track

BALLAST bags
One-man ballast bag. il Elec Ry J 66:745-6 O 24 '25; Eng & Contr (G C) 64:921 O 21 '25; Iron Age 116:965 O 8 '25; Ry R 77:569 O 10 '25

BALLAST cars. See Cars, Ballast

BALLAST resistor. See Electric resistors

BALLISTICS
Initial motion of a projectile. E. T. Hanson. Philos Mag 6th ser 46:1027-48 D '23
Theory of the drift of projectiles. E. T. Hanson. Philos Mag 6th ser 49:786-93 My '25

See also Bombs, Aerial; Photography of projectiles; Projectiles

BALLOON gas. See Helium

BALLOON races
Aerial fox and hound race. Aviation 17:755 Jl 14 '24
Belgium wins James Gordon Bennett cup. Aviation 16:671; 17:839 Je 23, Ag 4 '24
How Goodyear III won the National balloon race. W. T. Van Orman. Aviation 16:618-19 Je 9 '24
Impressions of the 1924 National balloon race. H. V. Thaden. il Aviation 16:510-11 My 12 '24
National elimination balloon race, May 1924. Aviation 16:230, 484, 540 Mr 3, My 5, 19 '24
National elimination balloon race, May 1925. Aviation 18:245, 548 Mr 2, My 18 '25
Official results of the first International balloon race for the second Gordon Bennett trophy. Aviation 19:43 Jl 13 '25
Washington court house balloon race. Aviation 17:1256 N 10 '24

BALLOON tires. See Tires, Automobile

BALLOONS
Chimney lightning rod replaced in novel way. L. C. Fitzsimmons. il Power Pl Eng 28:613-14 Je 1 '24
St Louis as a lighter-than-air craft center. A. C. Hoskins. Aviation 16:122 F 4 '24

See also Aeronautics; Airships; Aviation

BALLOONS, Dirigible. See Airships

BALLS
Collision of spherical bodies of unequal diameters and densities at very low velocities. D. B. Deodhar. il Philos Mag 6th ser 48: 89-96 Jl '24
Turning and graduating a sphere. O. S. Marshall. il Mach 30:885-6 Jl '24

See also Golf balls

Manufacture

Hollow balls made from strips and tubing. il Iron Age 114:1544-5 D 11 '24; Blast F & Steel Pl 13:137+ Mr '25; Automotive Ind 52:629 Ap 2 '25; Power 61:707 My 5 '25
Hollow seamless balls. F. D. Jones. il diags Mach 31:255-60 D '24; Abstract. Génie Civil 87:357-8 O 24 '25
Seamless hollow metal balls. T. Dantzig. il diags Am Mach 61:877-80 D 4 '24

BALLS, Steel

Manufacture

Improvements in the Brinell test on hardened steel, including a new method of producing hard steel balls. A. Hultgren. diags Iron & Steel Inst J 110:183-212, pl 10; Discussion. 213-18 no 2 '24

Machining balls and sockets. W. R. Graham. diags Mach 31:284-5 D '24

Making and testing steel balls. K. H. Lansing. il Iron Tr R 73:1549-52 D 6 '23

See also Ball bearings—Manufacture

BALMER law

Balmer law as an equation of motion. L. Page. Phys R 25:429-43 Ap '25

BALSA

Balsa floats as life saving equipment. il Marine R 55:305-6 Ag '25

BALSAM wool

Balsam-wool insulation tests. il Ry Age 78: 1041-2 Ap 25 '25; Same. Ry Mech Eng 99: 528-9 Ag '25

Man-made lumber; revising the structural arrangements of saw-mill waste to make possible its utilization. H. F. Weiss. il Sci Am 130:250+ Ap '24

BALTIC states

Commerce

Baltic border states. map Comm M 5:21-6 Ap '24

BALTIMORE

Baltimore zoning ordinance partly upset by state court. Eng N 94:367 F 26 '25

Company that helped a city to come into its own. J. Heywood. Forbes 15:689-91+ Mr 1 '25

Architecture

Maryland war memorial. J: H. Scarff. il plans Arch Forum 43:65-8, pl 17-19 Ag '25

Industries and resources

Production begins at $3,500,000 plant of Standard sanitary manufacturing company. Manuf Rec 87:89 F 12 '25

Rapid transit

Baltimore holding up. Elec Ry J 66:35-6 Jl 4 '25

Baltimore recalls pioneer road. il Elec Ry J 66:244-5 Ag 15 '25; Aera 14:239-44 S '25

Fares up in Baltimore. Elec Ry J 63:862-3 My 31 '24

Motor bus as an auxiliary in Baltimore. L. H. Palmer. Elec Ry J 64:18-19 Jl 5 '24

Rush-hour train operation in Baltimore. il diags Elec Ry J 65:577-80 Ap 11 '25

Slight increase in net income of the United railways & electric company. Elec Ry J 63:830-1 My 24 '24

Sewerage

Nine years' operation of the Baltimore sewage pumping station. C. E. Keefer. il Pub Works 55:207-10 Jl '24

Operating results of Baltimore sewage-works, 1919-22. C. E. Keefer. Eng N 92:250-1 F 7 '24

Removal and disposal of air-dried sludge at Baltimore. J: H. Gregory and C. E. Keefer. il Eng N 93:13-16 Jl 3 '24

Streets

Anti-parking regulations recommended. map Elec Ry J 63:232 F 9 '24

Water supply

Establishment of a metropolitan district in Baltimore county contiguous to Baltimore city, Maryland. V. B. Siems. map N E Water Works Assn J 38:250-6 S '24

Manganese in Baltimore water supply. il diags Am Water Works Assn J 12:211-33 [bibliog. p. 232-3] O '24

Meeting a drought emergency. V. B. Siems. il Pub Works 56:369-71 O '25

Sand-bed studies at Montebello water filters, Baltimore. J: R. Baylis. il diags Eng N 92: 516-22 Mr 27 '24; Discussion. 92:563-8, 1094-5 Ap 3, Je 26 '24

Some features of filter design. J. W. Armstrong. il Eng & Contr (W W) 64:847-56 O 14 '25

BALTIMORE and Ohio railroad

Annual report, 1923. Ry Age 77:131-5 Jl 19 '24; Same cond. Comm & Fin Chr 119:337-9 Jl 19 '24; Same cond. Annalist 24:66-7 Jl 21 '24

Annual report, calendar year 1924. Ry Age 79: 59-61 Jl 4 '25; Annalist 25:880-1 Je 29 '25; Ry R 77:29-31 Jl 4 '25; Comm & Fin Chr 121:69, 90-2 Jl 4 '25

Baltimore & Ohio earning power. map Ry Age 79:36-8 Jl 4 '25

B. & O. extends scope of employee co-operative plan. E. W. Scheer. Ry Age 78:453-4 F 21 '25

Baltimore and Ohio railroad company; a brief history of the company since it began service as a common carrier in 1827. 30p National city co., New York '24

Labor policy of the Baltimore & Ohio. D. Willard. Ry Age 77:839-41 N 8 '24; Same. Ry R 75:761-3 N 8 '24; Discussion. Ry Age 77:826 N 8 '24

BALTIMORE association of commerce

Industrial bureau

Two important principles of industrial location work. H. F. French. il Manuf Rec 86:73-4 D 18 '24

BALTIMORE City college competition. See College architecture

BALUSTRADES

Strength of balustrades. Am Arch 127:398 Ap 22 '25

Three balustrades from the Villa D'Este at Tivoli. il diags Am Arch 125:265-6 Mr 12 '24

See also Railings

BAMBOO

Bamboo polysulphide cook. C. B. Davies. Paper 35:501-2 Ja 8 '25

De Vains process for paper from waste fibrous materials. J. F. Clerc. flow sheet il diags Chem & Met Eng 30:259, 262-5 F 18 '24; Same. Paper Tr J 78:43-7 F 21 '24

Possibilities of pulp manufacture. C. W. Mason. Paper 34:248 My 29 '24

Recent developments in India's bamboo pulp industry. Paper 35:334 D 11 '24

BANANAS

Banana and Caribbean trade. il Dun's Int R 43:37-41 Je '24

Banana land; story in pictures. T: F. Lee. Sci Am 133:41 Jl '25

Banana trade. Moody's Inv Serv 16:267-8 Jl 3 '24

Growing our own bananas; how Florida is establishing a new crop. J. H. Collins. il Sci Am 131:86+ Ag '24

Handling bananas at the port of New Orleans. F. B. Peebles. il diags Cassier's Ind Management 12:329-32 Je '25

Reduce time in delivery of bananas. H. R. Simonds. il Marine R 55:433-5 N '25

BANCITALY corporation

For benefit of small investors. F. S. Clark. il Burroughs Clearing House 10:10-11+ N '25

BANCO di Sicilia trust company

Banco di Sicilia trust company, New York, opens for business. il Bankers M 110:1101-2 Je '25

BANDAGING

Good first aider must be skilled in bandaging. G. R. G. Fisher. il diags Nation's Health 7:176-8 Mr '25

BANGOR and Aroostook railroad

Annual report, 21st—year ended Dec. 31, 1924. Comm & Fin Chr 120:1740-1 Ap 4 '25

BANK accounting

Analysis of a customer's account. J. H. Kennedy. Am Bankers Assn J 16:644-5+ Ap '24

Analysis of accounts in country banks. O. H. Wolfe. Comm & Fin Chr 119:181-2 sec 2 O 18 '24; Same cond. Am Bankers Assn J 17: 268 O '24

Auditor-guardian of the bank. F. L. Beach. Burroughs Clearing House 9:12-14+ N '24

BANK accounting—*Continued*

Bank auditing and the auditing department. G. G. Munn. Bankers M 108:603-5+ Ap '24

Bank bookkeeping and accounting. G. G. Munn. Bankers M 108:435-7+ Mr '24

Bank man, do you know your bank? W: H. Kniffen. Burroughs Clearing House 9:10-11+ O '24

Certificate of deposit controls. O. B. Lovell. Burroughs Clearing House 9:25+ F '25

Cost accounting as applied to banks; abstracts. A. W. Loasby. Comm & Fin Chr 120:3266-7 Je 27 '25; Comm & Fin 14:1270-1 Jl 1 '25; Am Bankers Assn J 18:23+ Jl '25

Cost of accounts in simplest terms. F. L. Beach. Burroughs Clearing House 8:8-9+ Je '24

Cost of maintaining depositors' accounts. F: H. Hurdman. J Account 38:98-106 Ag '24

Costs—starting from the other end. H. W. Sanders. Burroughs Clearing House 9:10-11+ F '25

Efficient bank's accounting organization. F. L. Beach. Burroughs Clearing House 8:12-14+ Jl '24

First national conference of bank auditors, Chicago, Oct. 2. Comm & Fin Chr 119:130-1 sec 2 O 18 '24

Focal point of bank accounting. F. L. Beach. Burroughs Clearing House 8:17-19+ S '24

Fundamentals of trust accounting. M. E. Reeve. Am Bankers Assn J 17:495+ F '25

How they keep the customer's ledger. F. L. Beach. Burroughs Clearing House 8:14-16+ My '24

How to make an analysis of the cost of accounts. O. H. Wolfe. Am Bankers Assn J 17:427-31 Ja '25

Incoming cash letters and float. H. W. Sanders. Burroughs Clearing House 9:8-9 D '24

Investment bond accounting. V. Lamont. Burroughs Clearing House 9:22-3 My '25

Is it a balance, or an overdraft? H. B. Shaffer. Burroughs Clearing House 8:11-13+ Ja '24

Meet an old friend, per item cost. H. W. Sanders. Burroughs Clearing House 9:14-16 Ap '25

Organizing a trust department in a national bank. J. W. Hudston. Am Bankers Assn J 16:581-2 Mr '24

Plug the leaks and build the profits. P. H. Schroeder. il Burroughs Clearing House 8:26+ Jl '24

Recognition of the status of the auditor in the general scheme of a bank's organization. F. Coates, jr. Comm & Fin Chr 119:132-3 sec 2 O 18 '24

Savings departments as they are. F. L. Beach. Burroughs Clearing House 8:9-12+ F '24

Statements all ready the 31st. N. W. Kindgren. Burroughs Clearing House 9:15-16 Ag '25

Time-saving system for handling notes. Bankers M 109:563-6 O '24

Unit plan for savings departments. H. C. Hausman. Bankers M 108:707-10 My '24

When analysis crossed the Hudson. J. H. Collins. il Burroughs Clearing House 8:5-7+ Jl '24

BANK advertising

Advertising production man. W. E. Hale. il Burroughs Clearing House 10:14-16+ O '25

Advertising the depositors' business. T. D. MacGregor. il Burroughs Clearing House 9:21-2+ N '24

Air attack on misunderstanding. Am Bankers Assn J 16:633+ Ap '24

Arousing dormant accounts by direct mail methods. F: P. H. Siddons. Am Bankers Assn J 17:66 Ag '24

Art in financial advertising. G. P. Knapp. Bankers M 108:229+ F '24

Awakening of old man dormant. J. T. Tyrrell. Burroughs Clearing House 8:14-16+ Ag '24

Bank leans on new trends in art to gain attention. B. R. Brooker. Ptr Ink M 9:90+ D '24

Bank offers college scholarship in essay contest. Ptr Ink 126:124 F 14 '24

Bank, through advertising, encourages foreign trade. A. M. Howe. Ptr Ink 132:50+ S 10 '25

Banking publicity. Published in monthly numbers of Bankers magazine

Banks need better packages. Ptr Ink 129:156+ O 23 '24

Banks should advertise for business—not merely good will. W. E. Devlin. Bankers M 110:1002-3+ Je '25

Breathing life into the statement. T. D. MacGregor. Burroughs Clearing House 8:22-4 My '24

Buffalo bank advertises life insurance. Spectator 114:3 Ja 1 '25

Capitalizing interest periods. F: P. H. Siddons. Burroughs Clearing House 9:17-18 Je '25

Capitalizing news in bank publicity. T. D. MacGregor. Burroughs Clearing House 8:28-9+ Ap '24

Charting the sources of good will. A. Schwartz. Burroughs Clearing House 9:25-6 O '24

Close-ups of the life in the community. T. D. MacGregor. Burroughs Clearing House 8:21-2+ Ag '24

Columbus, Ohio, banks answer Florida's challenge. Ptr Ink 132:20 S 3 '25

Complete radio tie-up in Denver. J: T. Bartlett. Burroughs Clearing House 9:30+ My '25

Contest brought 9,800 accounts and $800,000 in deposits; First national bank in St Louis stages lively contest among employees. F. Fuchs. Ptr Ink 127:133-4+ My 29 '24

Copy interesting and productive. T. D. MacGregor. Burroughs Clearing House 9:25-6 Je '25

Country banker humorously tackles economic ignorance. Ptr Ink 132:81-2 Ag 27 '25

Current copy in the newspapers. T. D. MacGregor. Burroughs Clearing House 9:25-6 My '25

Developing the savings business through cultivation of the existing customer. G. P. Knapp. Bankers M 110:635-40 Ap '25

Do depositors respond to mailing? G. P. Knapp. Burroughs Clearing House 9:14-16 F '25

Doing for a family of a half-million. I. I. Sperling. il Burroughs Clearing House 9:17-18 N '24

Federal land bank teaches farmer good financial management. J: A. Murphy. Ptr Ink 126:97-8+ Mr 6 '24

Federal land banks ready for third advertising step. A. E. Haase. Ptr Ink 132:65-6+ S 24 '25

Financial advertisers need to study their market. Ptr Ink 133:132+ O 22 '25

Financial advertising. G. S. Morse. Bankers M 109:95-7 Jl '24

First-person advertising that brought a new slant to bank's advertising. Ptr Ink 126:84+ Ja 24 '24

Helping the ex-service man keep his bonus. Ptr Ink 127:128 My 29 '24

Historical campaign that appeals to children as well as grown-ups. H: Burwen. Ptr Ink 125:150-1 N 15 '23

How bankers can draw on public confidence. A. Stote. Ptr Ink 128:132+ S 4 '24

How seven hundred banks are helping the farmer become a business man. Ptr Ink 125:125-6 D 13 '23

Ideas that pull through the window. K. E. Olson. il Burroughs Clearing House 8:12-14+ S '24

In defense of the novelty. B. W. Griffin. Bankers M 108:725+ My '24

Investment banker's duty to investor. F. L. Blanchard. Pub Serv Management 37:61-2 Ag '24

Is thrift a weak appeal in selling a bank's savings department? D. Hubbard. Ptr Ink 129:33-4+ O 2 '24

John Poole, banker, puts customers' interests first. J. True. Ptr Ink 132:146+ S 17 '25

Leaks in banking—how to stop them; by cutting out worthless advertising. W. R. Morehouse. Am Bankers Assn J 16:638-9+ Ap '24

BANK advertising—*Continued*

Letters which help the bank. H: A. Burd. Am Bankers Assn J 18:183-5+ S '25

Making the small checking account pay part of its keep. Ptr Ink 133:105-7 O 29 '25

Marked success attends F.A.A. meeting in Richmond. Bankers M 109:885-9+ N '24

Mass plans for gaining new savings accounts. B. W. Griffin. Am Bankers Assn J 17:86-7 Ag '24

Measure of a birthday; celebration of the twentieth year of Peoples stock yards state bank, Chicago. A. T. Huizinga. il Burroughs Clearing House 9:17-18+ O '24

Monthly film of business review; a Denver bank's venture in motion picture advertising. J: T. Bartlett. Burroughs Clearing House 8:21+ Mr '24

New magnets for idle dollars. Am Bankers Assn J 16:741-2+ My '24

Old bank with a fine, new spirit; the Bowery savings bank. T. D. MacGregor. Burroughs Clearing House 8:22-3+ Mr '24

Out-of-the-ordinary advertising. T. D. MacGregor. Burroughs Clearing House 9:21-2 Jl '25

Printing—a study in purchasing. W. E. Hale. Burroughs Clearing House 10:22-4 N '25

Proof that courtesy is an asset. T. D. MacGregor. Burroughs Clearing House 8:22-3+ Ja '24

The question: long or short copy? T. D. MacGregor. Burroughs Clearing House 9:24-6 Ja '25

Regarding the problem of publicity. C. G. Mitchell. Burroughs Clearing House 9:11+ Je '25

Replies to a questionnaire on bank window displays. W. J. Parham, jr. Ptr Ink 133: 160+ O 22 '25

Report of publicity committee of I.B.A. Comm & Fin Chr 119:1557-8 O 4 '24

Results—and why—with the dormants. Z. Brown. Burroughs Clearing House 8:15-16 Mr '24

Savings banks and advertising. W: E. Knox. Bankers M 109:1071-4 D '24; Same. Am Bankers Assn J 17:363-4 D '24

So said that he who runs may read. T. D. MacGregor. Burroughs Clearing House 8:20-1 S '24

Some effective ways to advertise a trust department. H. B. Allen. Am Bankers Assn J 17:496+ F '25

Straight selling can be done successfully by a bank. Ptr Ink 125:89-90+ D 20 '23

Those dormants at the average national bank. G. P. Knapp. Burroughs Clearing House 9: 16+ N '24

Thrift in its true setting. W. R. Morehouse. Am Bankers Assn J 17:67-8+ Ag '24

Trust department advertising and publicity. L. L. D. Stark. Am Bankers Assn J 16:579-80 Mr '24

Typical simple campaigns—one to prospects (York national bank), the other to dealers (Evans-Winter-Hebb). R. E. Ramsay. Inland Ptr 73:233-4 My '24

Vacation lure in new colors. M. Enos. Burroughs Clearing House 10:19-20 O '25

Way to test form letters. B. W. Griffin. Ptr Ink 127:53-4 Je 5 '24

What a big bank does when it is overstocked. C. M. Harrison. Ptr Ink 131:53-4+ Ap 2 '25

What makes bank advertising pay? F. L. Blanchard. il Am Bankers Assn J 17:619-20 Ap '25

What makes good advertising? C. Honsford. Am Bankers Assn J 16:627-9 Ap '24

Where premiums may be at a discount. E. B. Wilson. Bankers M 109:410 S '24

Worker's wages and the widow's check; how advertising is helping to lick the blue-sky promoter. R. Dickinson. Ptr Ink 127:127-8+ My 22 '24

See also Bank employees—Contests; Bonds—Advertising; Building and loan associations—Advertising; Investments—Advertising; Land banks—Advertising; Trust companies—Advertising

BANK buildings

American bank & trust co. building, Hazleton, Pa. and Second national bank building, Nashua, N.H.; views and plans. Am Arch 128:pl 244-7 S 9 '25

American trade outpost; new building of the Buenos Aires branch of the First national bank of Boston. il World's Markets 14:14-15+ Ja '24; Same cond. Dun's Int R 43: 50-1 Mr '24

American trust and New York title and mortgage companies' new midtown office has real charm. il Bankers M 109:1231-6 D '24

America's new citadel of finance; Federal reserve bank of New York. Am Bankers Assn J 17:325-6+ N '24

Anticipating the future thirty years; Greenwich savings bank. G: W. Gray. il Burroughs Clearing House 9:13-14+ D '24

Architect and the banker. A. B. Trowbridge. il plans Arch Forum 38:277-80, pl 73-8 Je '23

Ashland National bank building, Ashland, Kentucky. il plans Arch Forum 41:142 S '24

Bank design at its apex. il plans Bldg Age 46:74-5 Ag '24

Bank for a small town. il plans Bldg Age 46: 76 O '24

Bank interiors. il diags Am Arch 125:561-6 Je 18 '24

Bank of America to be housed in monumental building. il Bankers M 108:487-91 Mr '24

Bank of Coney Island solves an interesting building problem. il plan Bankers M 110: 413-16 F '25

Bank of Italy, Los Angeles; views and plans. Arch Forum 41:pl 35-7 S '24

Bank of Montclair, Montclair, N. J. Arch & Bldg 56:29, pl 75-7 Ap '24

Banking in an old-world palace; Bank of Brussels. il Nation's Business 13:32-3 O '25

Banks and bank buildings. A. Hopkins. il diag plans Arch Forum 43:69-74 Ag '25

Bristol trust company remodels its banking home. il Bankers M 111:667-72 O '25

Brotherhood of locomotive engineers extends banking facilities. R. G. Nairn. il plan Power Pl Eng 29:778-84 Ag 1 '25

Building at Madison avenue and 41st street, New York, for American trust co. and New York title & mortgage co.; views and plan. Am Arch 127:pl 25-8 Ja 28 '25

Building the bank for business. T. H. Moyer. 132p Dando co., Philadelphia '24

Chatham and Phenix national bank, Bowery branch, New York city. il diag plan Arch & Bldg 57:66-9, pl 167-9 Ag '25

Citizens national bank, Baltimore. Arch & Bldg 57:23, pl 54-7 Mr '25

Classic lines grace this Montgomery, Alabama bank. il plan Bldg Age 47:136 Ja '25

Combining rental features with a bank building. il plans Bldg Age 46:90-1 D '24

Competition for the National postal savings bank of Argentina. il plans Am Arch 127: 219-22 Mr 11 '25

Corn Exchange National bank building, Philadelphia, Pa. il Arch & Bldg 57:88-90, pl 217-18 O '25

Davenport, Iowa, has right to be proud of this bank and office building. il plans Bldg Age 47:124-6 S '25

Development of the Federal reserve system. il Arch & Bldg 57:57-8+, pl 135-53 Jl '25; Same. Eng & Contr (Bldgs) 64:459-62 Ag 26 '25

Dignified bank for small city. il plans Bldg Age 47:121 My '25

Equitable trust company, Atlantic City, New Jersey; views. Arch Rec 56:145-51 Ag '24

First national bank, Boston, Mass. Arch & Bldg 56:111-12, pl 225-8 D '24; Bankers M 109:1221-4 D '24

Friendly southern bank; Frost national bank, San Antonio, Texas. R. McDaniel. il plans Bldg Age 47:96-7+ Jl '25

Greenville banking and trust company, Jersey City, N.J. il Arch & Bldg 56:121, pl 240-1 D '24

Greenwich savings bank, Broadway and 36th street, New York; views. Am Arch 125: 538a-b Je 4 '24

BANK buildings—*Continued*
Greenwich savings bank, New York city. Arch & Bldg 56:75-6, pl 151-7 Ag '24
Home bank and trust co., Toledo, Ohio. il Arch & Bldg 57:31, pl 81 Ap '25
Homewood peoples bank of Pittsburgh. il Bankers M 110:417-20 F '25
Homewood state bank, Homewood, Illinois; view and plan. Arch Rec 58:349-50 O '25
How should bank buildings be designed? C: C. Morgan. il Bankers M 109:517-22 S '24
Imposing new building for Bank of Canton. il Bankers M 110:193-8 Ja '25
Interior of building of the Provident trust company of Philadelphia, Pa. il plans Am Arch 128:147-8, pl 218-21 Ag 12 '25
Jefferson county national bank, Watertown, N.Y. Arch & Bldg 56:29-30, pl 84-6 Ap '24
Jefferson county savings bank, Watertown, N.Y. plan Arch & Bldg 56:3-4, pl 22-3 Ja '24
Largest day and night bank opens new 20 story building; Franklin trust company, Philadelphia. il Bankers M 109:337-44 Ag '24
Madison avenue branch of the Farmers' loan and trust company, New York city. il plans Am Arch 127:225-8 Mr 11 '25
Manhattan savings institution, New York city. Arch & Bldg 56:57-8, pl 125-6 Je '24
Manufacturers national bank, Troy, N.Y. Arch & Bldg 55:113, pl 222-5 N '23
Many bank buildings needed. il diag plan Bldg Age 46:66-7 Ja '24
Mellon national bank, Pittsburgh, Pa. Arch & Bldg 56:67, pl 132-4 Jl '24
Methods used in shoring and removing heavily loaded columns; Exchange national bank of Tulsa. K. Johnson. il diags plan Am Arch 125:411-15 Ap 23 '24
National bank of Long Beach, Long Beach, N.Y. Arch & Bldg 56:pls 90-1 Ap '24
New Arlington street office of the National Shawmut bank. il Bankers M 109:1037-41 N '24
New bankers' bank in Cleveland. W. J. Erving. il Burroughs Clearing House 8:16-18+ Ja '24
New bankers' bank in New York. G: W. Gray. il Burroughs Clearing House 9:21-2+ Ap '25
New building of Atlantic national bank of Boston. il Bankers M 111:121-5 Jl '25
New building of the Oak Park trust and savings bank. il Bankers M 108:173-5 Ja '24
New Commonwealth bank office. il Bankers M 110:199-202 Ja '25
New home for a new working plan; First national bank of Boston. G: W. Gray. il Burroughs Clearing House 9:22-4 Mr '25
New home of the Greenville banking and trust company. il Bankers M 109:713-20 O '24
New uptown office of the Seaboard National bank of New York. il Bankers M 110:933-8 My '25
New York's oldest bank in new quarters; Bank of New York and trust company. il Bankers M 110:393-401 F '25
North Ward national bank, Newark, N.J. Arch & Bldg 56:11-12, pl 43-7 F '24; Am Arch 125:286h-k Mr 26 '24
Northern trust and savings company, Lancaster, Pa. il Bankers M 110:1103-7 Je '25
Office building altered to house a New York bank, International acceptance bank, inc. il plans Am Arch 128:143-7 Ag 12 '25
Old bank buildings replaced by new without stopping business. il Eng & Contr (Bldgs) 62:173-5 Jl 23 '24
Pacific bank, New York city. Arch & Bldg 56: 92-3, pl 193-6 O '24
Pacific bank, New York city, in new quarters. il Bankers M 109:971-6 N '24
Phoenix national bank, Hartford. il diags plans Arch Forum 41:185-92, pl 49-51 O '24
Pontiac commercial and savings bank, Pontiac, Mich.; views and plans. Am Arch 126: pl 33-7 Jl 30 '24
Seattle, Washington, branch bank building for Bank of California. il plan Am Arch 127: pl 49-50 F 25 '25
Six modern bank buildings. il plans Arch Forum 42:299-304 My '25
Some recent bank building operations. Published in monthly numbers of Bankers magazine
Something different in bank buildings; County and national bank building of Santa Barbara, Cal. J. H. Hawkins. il plan Bldg Age 47:82-3 N '25
Springfield avenue trust co., Newark, N.J., views and plan. il plans Am Arch 125:542a-b Je 4 '24
State and city bank and trust co., Richmond, Va. Arch & Bldg 57:83-4, pl 200-2 S '25
Staten Island savings bank, Stapleton, S.I. Arch & Bldg 57:14+, pl 38-9 F '25
Structural alterations in a concrete building. S. E. Berkenblit. il diags Eng N 92:203-5 Ja 31 '24
Thirty-four story bank building; the Equitable trust company of New York. Am Ind 25:18 F '25
Top slab of culvert carries walls of bank built over creek. N. H. Sturdy. il diag plan Eng N 94:988-9 Je 11 '25
Union trust building, Cleveland, Ohio. Arch & Bldg 56:67-8, pl 135-9 Jl '24; Same. Eng & Contr (Bldgs) 62:441-2 Ag 27 '24
U.S. national bank building, Denver. il plans Arch Forum 41:140 S '24
United States national bank, Galveston, Texas. il Bankers M 111:288-94 Ag '25
Westchester title and trust co., White Plains, N.Y. Arch & Bldg 55:120, pl 245-8 D '23
What is the best type of bank building? F. S. Wettack. Am Bankers Assn J 18:349+ N '25
Yorkville bank, New York city. il Arch & Bldg 56:40-2, 49, pl 94-8 My '24
You'd never know the old home now; remodeling of the First national bank, Brooklyn, N.Y. il Burroughs Clearing House 8: 8-9 Ja '24

See also Bank of England; Vaults

Electric equipment

Electricity is now used by San Francisco banks. il J Elec 54:22 Ja 1 '25

Heating and ventilation

Insuring fresh air supply for banking rooms and small offices. C: L. Hubbard. diags Sanitary & Heat Eng 102:113-15+ Ag 22 '24; Same. Sheet Metal Worker 15:755-6+ O 24 '24

BANK burglary. See Burglary

BANK clearings. See Clearing houses—Statistics

BANK commissioners
Varying powers of state bank commissioners. F. W. Simmonds. Am Bankers Assn J 17: 421-5 Ja '25

BANK consolidations
New York's bank consolidations. D. P. de Young. Burroughs Clearing House 9:12-14+ Je '25

BANK defalcations. See Embezzlement

BANK deposits
Bank deposits and super-tax reduction. R. Estcourt. Annalist 23:185+ F 4 '24
Bank loan—deposit ratios. Moody's Inv Serv 16:129-32 Mr 27 '24
Cyclical fluctuations of the ratio of bank loans to deposits, 1867-1924. W. M. Persons. charts R Econ Statis 6:260-83 O '24
Deposit for special purpose. Bankers M 111: 343-5 S '25
Depositors' right to set off deposit against note. Bankers M 109:584-6 O '24
Deposits activity as a measure of business activity. C. Snyder. charts R Econ Statis 6:253-9 O '24
New high records in bank deposits. Am Bankers Assn J 17:116 Ag '24
Our increased financial power; some problems and responsibilities arising therefrom. J. S. Alexander. Econ W n s 29:904-6 Je 27 '25; Same. Am Ind 26:38-40 Ag '25; Excerpts. Comm & Fin Chr 120:3265-6 Je 27 '25; Am Bankers Assn J 18:35 Jl '25

BANK deposits—*Continued*
Problem of national bank liquidity in the crisis and depression, 1920-1921. W. F. Mitchell. Univ J of Business 3:18-32 D '24
Survivor entitled to amount deposited in joint account. Bankers M 110:993-5 Je '25
Turnover of deposits a measure of business activity. C. Snyder. charts Am Bankers Assn J 16:471-3+ F '24
See also Banks and banking—Guaranty of deposits; Overdrafts; Savings deposits

BANK deposits, Government
Deposits of public moneys. C. S. Dewey. Am Bankers Assn J 18:129-30+ S '25; Same. Econ W n s 30:485-7 O 3 '25

BANK deposits, Unclaimed
Escheat of unclaimed deposits. T: B. Paton. Am Bankers Assn J 16:442-3 Ja '24

BANK directors
Because a director was vigilant. J: C. Paktel. Am Bankers Assn J 17:614+ Ap '25
Directors' actual knowledge of their bank's affairs. J: C. Paktel. Am Bankers Assn J 17:690+ My '25
Duties, responsibilities and liabilities of bank directors. F. L. Major. 193p Macmillan '25
Safety through directing directors. R. W. Goodhart. Am Bankers Assn J 17:746+ Je '25

BANK employees
Bank club co-operation with employees. Bankers M 109:1085-6 D '24
Bank of Italy employees to have controlling interest. A. P. Giannini. Am Bankers Assn J 17:304 N '24
Banking—from below. F. C. Perry. Bankers M 108:207-14 F '24
Employees to be given control of Bank of Italy. Bankers M 109:982-3 N '24
Extra compensation plan adopted by the Bank of Italy. Am Bankers Assn J 17: 452+ Ja '25
Group life insurance for banks. F: H. Ecker. Econ W n s 28:21-3 Jl 5 '24
Group life insurance plan of the Canadian Bank of commerce. Econ W n s 30:132-3 Jl 25 '25
How bank employees can gain business and good will. A. C. Bossom. Bankers M 111: 260-1 Ag '25
Locked in the minds of employees. W. R. Morehouse. Am Bankers Assn J 17:747-8+ Je '25
National city bank lets employees share in stock. Bankers M 110:111 Ja '25
Opportunities for the American bank clerk. A. W. Loasby. Bankers M 109:605-8 O '24
Profit-sharing in banks and financial institutions. J Account 37:161-82 Mr '24
Reducing the labor costs in banks. E: P. Vollertsen. Bankers M 111:15-18 Jl '25
Reference bureaus for bank employees. M. D. Miller. Bankers M 108:873-4 Je '24
Strike of French bank clerks—state control of banks asked—complete tie-up of business at Marseilles. Comm & Fin Chr 121:1044-5 Ag 29 '25
Where pride goeth before promotion. T: J. Malone. Burroughs Clearing House 9:15-16+ Mr '25
Zone idea in merchandising. W. J. Irving. il Burroughs Clearing House 9:17-18+ Jl '25
See also Benjamin Franklin institute

Contests
Contest brought 9,800 accounts and $800,000 in deposits; First national bank in St Louis stages lively contest among employees. F. Fuchs. Ptr Ink 127:133-4+ My 29 '24
Do the contest accounts stay? Z. Brown. il Burroughs Clearing House 10:20-1 N '25
First national bank in St Louis; employees' contest. Bankers M 108:735-8 My '24
Making salesmen out of bank employees. W. B. Weisenburger. Bankers M 110:997-1001 Je '25
New business through employees. G. P. Knapp. Ptr Ink 128:147-8+ Jl 24 '24
Test that's not a contest. R. Steffan. Burroughs Clearing House 10:17-18+ O '25
We developed sales talent in our whole working force. C. B. Hazlewood. System 48:578-9+ N '25
Who keeps the contest records? H. W. Sanders. il Burroughs Clearing House 9:19-20 Je '25

BANK examination
Audit—Martinet, or good fairy? Burroughs Clearing House 9:8-9+ My '25
Bank examinations. G. G. Munn. Bankers M 108:775-7+ My '24
The examiner is here. C. M. Harger. Am Bankers Assn J 16:665+ Ap '24
Modern methods in bank supervision. J. W. Pole. Am Bankers Assn J 17:743+ Je '25
New touch in the examination of national banks. L. Alexander. Am Bankers Assn J 16:630-1+ Ap '24
Protection for the depositors; clearing house examination system. D. A. Mullen. Am Bankers Assn J 16:783-4 Je '24
Revenue inspection of banks and safe deposit boxes. T: B. Paton. Am Bankers Assn J 16:594-9 F '24
See also Clearing house associations

BANK examiners
Many bankers recruited from ranks of examiners. J: Oakwood. Forbes 14:545-6+ Ag 1 '24
Securing competency in bank examiners. P: G. Cameron. Ann Am Acad 113:357-61 My '24

BANK failures
Bank failures, 1893-1923. Survey of Cur Business 32:59 My '24
Bank failures in the West. Nat City Bank p 21-2 F '24
Bank failures, their causes and consequences. M. B. Wellborn. Manuf Rec 87:73-4 Je 18 '25; Same cond. Comm & Fin Chr 120:3015-16 Je 13 '25
Bank suspensions in 1923 and for 31 years. Bradstreet's 52:45-6 Ja 19 '24
Bank suspensions in 1924 and bank and trust company suspensions for thirty-two years. Bradstreet's 53:65 Ja 24 '25
Closer co-operation between country banks. W. J. Bailey. Comm & Fin Chr 121:125-9 sec 2 O 17 '25; Same cond. Am Bankers Assn J 18:250-1+ O '25
Commercial failures and bank suspensions in 1924. Fed Res Bul 11:91-4 F '25; Excerpt. Comm & Fin Chr 120:1041 F 28 '25
Failures of banks in the United States in 1923. Econ W n s 27:121-2 Ja 26 '24
Truth about bank failures in the Northwest. J: Oakwood. Forbes 13:629-30+ Mr 1 '24
Way to sounder banking. C. B. Hazelwood. Am Bankers Assn J 18:255-6 O '25; Same. Comm & Fin Chr 121:150-1 sec 2 O 17 '25; Abstract. Bankers M 111:565-6 O '25
Why Northwest was overbanked—ease in obtaining charters and guaranty deposit laws are held responsible. Comm & Fin Chr 119: 30-1 Jl 5 '24

BANK inspection. See Bank examination

BANK libraries. See Financial libraries

BANK loans. See Loans, Bank

BANK notes
Bank note forgeries. Inland Ptr 74:217-18 N '24
Monthly changes in national bank notes and in bonds and legal tenders on deposit therefor. Comm & Fin Chr 120:302 Ja 17 '25 [continued monthly]
National bank circulation. Comm M 6:22-7 Je '24
National bank circulation. W: J. Byerly. Comm & Fin Chr 119:145-6 sec 2 O 18 '24; Same cond. Am Bankers Assn J 17:213-14 O '24
National bank circulation. M. B. Nahm. Comm & Fin Chr 119:146-8 sec 2 O 18 '24; Same cond. Am Bankers Assn J 17:264+ O '24
National bank note's place in money system. J. W. Hawkins. Am Bankers Assn J 17: 372 D '24

BANK notes—*Continued*
National bank notes vs. Federal reserve. Annalist 24:420 O 27 '24
Question of an increase of the French bank note circulation. A. R. Marsh. Econ W n s 29:471-2 Ap 4 '25
Recent rapid increase of the note issue of the Banco do Brasil. Econ W n s 28:883 D 20 '24
Treasury department's program for retiring national bank circulation. Comm & Fin Chr 119:2598-9 D 6 '24
Uncertain fate of the National bank note privilege. H. J. Dodge. Am Bankers Assn J 17:137+ S '24; Same. Econ W n s 28:557-8 O 18 '24

BANK of England
Advances by the Bank of England. H: A. E. Chandler. Comm M 5:14-15 F '24
Bank of England and the commercial money market. H: A. E. Chandler. Comm M 6:3-15 O '24; Same, without charts. Econ W n s 28:582-6 O 25 '24
Bank of England and the state. F. Schuster. 35p Longmans '23
Bank of England; views. Am Inst Arch J 12: 354-6 Ag '24
Old Lady of Threadneedle Street. Economist 101:569-70 O 10 '25
Reconstruction of Bank of England building. Comm & Fin Chr 120:3011 Je 13 '25

BANK of France
Bank of France in 1924. Fed Res Bul 11:257-9 Ap '25
Monetary policy of the Bank of France. Economist 100:241-2 F 7 '25

BANK of Italy, San Francisco
Adventure in employee-ownership. F. S. Clark. Burroughs Clearing House 9:17-18+ Mr '25
Bank of Italy employees to have controlling interest. A. P. Giannini. Am Bankers Assn J 17:304 N '24
Employees to be given control of Bank of Italy. Bankers M 109:982-3 N '24
Extra compensation plan adopted by the Bank of Italy. Am Bankers Assn J 17:452+ Ja '25

Women's department
Bank within a bank for women. P. E. Ritchey. il Burroughs Clearing House 8: 12-13+ Je '24

BANK of Montreal. See Banks and banking—Canada

BANK reserves
Bank reserves. G. G. Munn. Bankers M 108:951+ Je '24
Gold exports from the United States and the restoration of the gold standard in foreign countries. Econ W n s 29:582-4 Ap 25 '25; Same. Fed Res Bul 11:231-4 Ap '25
Gold reserves of principal countries. Fed Res Bul 11:267-8 Ap '25; Same. Comm & Fin Chr 121:532-3 Ag 1 '25

BANK shares. See Banks and banking—Stock

BANK vaults. See Vaults

BANKERS
Bankers' responsibility. M. A. Traylor. Bankers M 109:205-7 Ag '24
Being the other fellow. A. H. Lewis. Bankers M 110:979-80 Je '25
Demands of a banking career. C: E. Mitchell. Bankers M 109:1157-8 D '24
Executives—openly arrived at. D. MacGregor. Nation's Business 13:30-1 O '25
Himalayas of finance. J: Oakwood. Forbes 15:544-6+ F 1 '25
International business and politics; bankers and war. Nat City Bank p 148-50 S '24
Is banking a profession? E. E. Agger. Am Bankers Assn J 17:383+ D '24
Mistakes of an unsuccessful banker. W: Ashdown. il Burroughs Clearing House 8:19-20+ My; 17-18+ Jl '24
Notes on selling bankers' blanket bonds. J: J. Iago. Spectator 115:27-9+ Jl 2 '25
Portraits of presidents of various state bankers' associations. Am Bankers Assn J 17: 422+ Ja '25
Pro and con of banking as a career. W: H. Kniffin. Burroughs Clearing House 8:16-18+ F '24
When you are speaker of the evening. G. P. Knapp. Burroughs Clearing House 8:34+ Ja '24

See also Advertising and bankers; Women as bankers; *also* names of bankers, e.g. Baker, George F.; Hepburn, A. Barton; Turner, Samuel Gilbert Hathaway

BANKERS' association for foreign trade
Annual convention, 4th, Cincinnati, Ohio, April 2-3. Bankers M 110:801-6 My '25
Survey of the purposes and activities. F. W. Allen. Bankers M 110:705-9 Ap '25

BANKERS' associations
See also Investment bankers' association of America

BANKERS' balances. See Loans, Bank

BANKERS' shares companies
Bankers' shares companies and investment trusts. R. A. Lewis, jr. Am Bankers Assn J 17:491-2+ F '25; Same. Econ W n s 29: 366-9 Mr 14 '25

BANKING ethics
Code of ethics for bankers. W. R. Morehouse. Am Bankers Assn J 18:331-2 N '25
Practice and ethics in banking. C. A. Chapman. Am Bankers Assn J 17:386+ D '24

BANKING law
Bank compelled to disclose information as to depositor's income. Bankers M 108:893-5 Je '24
Bank legislation. Nat City Bank p 31-2 F '25
Bank liable in paying deposit to depositor's husband. Bankers M 108:65-6 Ja '24
Bank liable to depositor where funds were seized by Soviet republic. Bankers M 108: 717-19 My '24
Bank need not apply indorser's deposit to payment of note before suing both parties. Bankers M 109:1093-5 D '24
Banking law journal digest. J: E. Brady. 3d ed., rev. 525p Banking law journal, New York '24
Banking reform in Colombia. H. M. Jefferson. Credit M 26:12+ F '24
Banks' liability for burglary of safe deposit boxes. T: B. Paton. Am Bankers Assn J 17:36-8 Jl '24
Contract against responsibility for failure or delay in collecting or remitting. Bankers M 110:825-6 My '25
Deposit for special purpose. Bankers M 111: 343-5 S '25
Fiduciary functions of national banks. Bradstreet's 52:285 My 3 '24
Law on collection customs. A. F. McCarty. Burroughs Clearing House 9:52-3+ Mr '25
Lawyer looks at banking; the legal entanglements and escapes of the Seedgrowers national bank. A. F: McCarty. 143p Bankers pub. co., Toledo, O. '24
Liability of person introducing depositor to bank. Bankers M 110:658-61 Ap '25
Many new state banking laws are foreshadowed. Am Bankers Assn J 17:499-500+ F '25
National-bank act as amended and other laws relating to national banks. 148p U.S. Comptroller of currency, Washington, D.C. '23
National bank director's oath before employee-notary. T. B. Paton. Am Bankers Assn J 17:763 Je '25
National bank real estate loans. L: Alexander. Am Bankers Assn J 18:323-4 N '25
National banks at the cross-roads. C: W. Collins. Am Bankers Assn J 16:572-4 Mr '24; Same. Econ W n s 27:402-6 Mr 22 '24
New Reichsbank law. Fed Res Bul 10:854-8 N '24; Same. Comm & Fin Chr 119:2481-2 N 29 '24
New York banking law annotated. W: E: Baldwin, ed. 347p Banks law pub. co., New York '25

BANKING law—*Continued*
Norway gives the depositor a voice in bank control. L: Alexander. Am Bankers Assn J 17:453-4+ Ja '25
Note given by director to conceal excessive loan. Bankers M 109:399-402 S '24
Pratt's digest of federal banking laws. 577p A. S. Pratt & sons, inc., Washington '24
Proposed Pennsylvania banking code favored by Philadelphia bankers. Comm & Fin Chr 120:39-40 Ja 3 '25
Provisions of state laws relating to bank reserves. Fed Res Bul 10:154-81 Mr '24
Recent decisions. T: B. Paton, jr. Published in monthly numbers of American bankers association journal
Report of A.B.A. committee on federal legislation and Federal legislative council. Comm & Fin Chr 121:96-7 sec 2 O 17 '25
Report of I.B.A. legislation committee. Comm & Fin Chr 119:1462-3 S 27 '24
Report of legislative committees; Investment bankers association. Comm & Fin Chr 117: 2066-72 N 10 '23
Rights of a Federal reserve bank in action against maker of a promissory note held by reserve bank as collateral security for indebtedness of member bank. Comm & Fin Chr 121:420-1 Jl 25 '25; Same. Fed Res Bul 11:484-6 Jl '25
Some extension of national bank powers seems assured. R. Bean. Annalist 23:236+ F 18 '24
State banking laws of Texas. W. Hawkins, comp. 266p Von Boeckmann-Jones co., Austin, Texas '23
State laws relating to branch banking. Fed Res Bul 11:182-7 Mr '25
Tennessee Supreme court upholds constitutionality of new state law restricting establishment of branch banks—text of the law. Comm & Fin Chr 121:531 Ag 1 '25
Texas banking laws annotated. E. S. Green. 773p Gammel book store, Austin, Tex. '25
Trend of bank legislation. F. W. Simmonds. Am Bankers Assn J 18:325-7 N '25
Uniformity of state banking laws. G: V. McLaughlin. Comm & Fin Chr 121:120-1 sec 2 O 17 '25; Same abr. Am Bankers Assn J 18:237+ O '25; Abstract. Bankers M 111:552 O '25
U.S. Supreme court upholds right of national banks to act as executors. Comm & Fin Chr 118:2128-9 My 3 '24
What says the law on the bank credit? A. F. McCarty. Burroughs Clearing House 9:9+ Ap '25
When the depositor owes the bank. M. L. Hayward. Burroughs Clearing House 9:16+ My '25

See also Bank commissioners; Banks and banking—Branch banking; Banks and banking—Guaranty of deposits; Checks; Federal reserve banks; Intermediate credit banks; Overdrafts; Promissory notes; Savings banks—Investments; Trust companies; Usury laws

McFadden bill

Banking and the McFadden bill. Annalist 24: 602 D 8 '24; Same. Comm & Fin Chr 119: 2698-9 D 13 '24
Congress withholds final action on McFadden banking bill. Comm & Fin Chr 120:1156 Mr 7 '25
Equal opportunity in cities; McFadden National bank bill. H: M. Dawes. Am Bankers Assn J 16:571+ Mr '24
McFadden banking bill in Senate. Comm & Fin Chr 120:533-5, 657-8, 778-9 Ja 31-F 14 '25
McFadden bill. Nat City Bank p 145-6 S '25
McFadden bill amending Federal reserve and National bank acts to be re-introduced in new Congress. Comm & Fin Chr 121:1637-8 O 3 '25
McFadden bill analyzed. G: W. Pepper. Am Bankers Assn J 17:203-4 O '24; Same. Comm & Fin Chr 119:91-2 sec 2 O 18 '24
McFadden bill and branch banking. T: B. Paton. Comm & Fin Chr 121:147-50 sec 2 O 17 '25; Same cond. Am Bankers Assn J 18: 257-8 O '25; Abstract. Bankers M 111:563-5 O '25
McFadden bill debate. Annalist 25:157+ Ja 26 '25
McFadden bill for regulating branch banking and amending the national banking laws; text. Comm & Fin Chr 118:2253-6 My 10 '24
McFadden bill; text. Fed Res Bul 11:103-7 F '25
McFadden-Pepper bill; analysis. I B A of A 13:124-9 Ja 31 '25
Movement to modernize national bank laws—Representative McFadden's bill amending existing law. Comm & Fin Chr 118:736-7, 1089-92, 1980-4 F 16, Mr 8, Ap 26 '24
Paving the way to unified banking; McFadden discusses his bill. C: E. Duffie. Burroughs Clearing House 8:5-7 S '24
Proposed amendments to the Federal reserve act; text of bill. Bankers M 111:151-7 Ag '25
Representative McFadden's banking bill passes House—branch banking provisions. Comm & Fin Chr 120:282-7 Ja 17 '25
Representative McFadden's statement on bill to modernize national bank laws—anti-branch banking bill. Comm & Fin Chr 118: 2895-7 Je 14 '24
Third move to pass the McFadden banking bill. M. Ives. Am Bankers Assn J 17:602+ Ap '25
To lift national bank handicaps; sixteen changes in law proposed. L: T. McFadden. Am Bankers Assn J 16:467-70 F '24
To preserve our independent banking system; Hull amendment to McFadden-Pepper bill. Am Bankers Assn J 17:199-200 O '24
Why section 9 is necessary to the National bank bill. L. T. McFadden. Am Bankers Assn J 18:313-14+ N '25

BANKRUPTCY
Bankruptcy. S. F. Brewster. 94p Ronald press '24
Bankruptcy court administration. C. L. Marsilliot. Credit M 26:7-8 Ja '24
Bankruptcy reform. Index p 13-14 Mr '24
Bankruptcy reform proposals. W. R. Montgomery. Credit M 27:12+, 30 F, My '25
Bankruptcy reform; report by the Committee on bankruptcy reform. 116p Merchants' assn. of New York '24
Bankrupts may refuse to answer. W. R. Montgomery. Credit M 26:15 D '24
Case of emergency financing in a period of liquidation. S. P. Meech. Univ J of Business 2:368-73 Je '24
Investigations and adjustments. W: A. Marin. 125p W: A. Marin, 238 Endicott bldg., St Paul, Minn. '24
Principles of bankruptcy. R: Ringwood. 14th ed. 523p Sweet and Maxwell, ltd., London '24
Treatise on the elements of bankruptcy law. H. Remington. 2d ed. 546p Michie co., Charlottesville, Va. '24

See also Business failures; Debtor and creditor; Receivers

BANKS, State

See also Banks and banking—North Dakota

BANKS and banking
Am I a good banker? Burroughs Clearing House 10:12-13 O '25
American banking institute 23d annual convention, Kansas City, July 13-17. Bankers M 111:249-60 Ag '25
Bank business building. W: E. Walker. 275p Bankers pub. co., New York '25
Bank credit; principles and operating procedure. G. G. Munn. 284p McGraw-Hill '25
Bank filing. L. L. Davis. Bankers M 110:646-8 Ap '25
Bank salaries, expenses and methods of soliciting new business. 72 numb. l. Prentice-Hall '22
Banker—and romance. R: W. Saunders. Bankers M 109:1087-8 D '24
Bankers and business fires. Comm & Fin 13: 80-1 Ja 9 '24

BANKS and banking—*Continued*
Banker's credit manual. A. Wall. Rev. ed. 324p Bobbs '24
Banking. B. Foster. 336p Alexander Hamilton inst., New York '23
Banking and business. H: P. Willis and G: W. Edwards. rev. and enl. ed. 565p Harper '25
Banking and its relation to new wealth. F. Parker. Ann Am Acad 115:32-7 S '24
Banking—from below. F. C. Perry. Bankers M 108:207-14, 373-8 F-Mr '24
Banking from the inside. W: E. Zecher. Credit M 26:10+ Je '24
Banking fundamentals. rev. ed. 352p American inst. of banking, New York '25
Banking principles and practice. R. B. Westerfield. 849p Ronald press '24
Banking when the town strikes oil. A. F. McCarty. il Burroughs Clearing House 9:5-7+ N '24
Banks and banking. A. H: Marvill. 46p LaFayette institute, inc., Phila. '24
Banks can improve new business plans. H. J. Bernard. Ptr Ink 131:41-2 My 14 '25
Central control to cut costs. A. L. Irish. il Burroughs Clearing House 9:12-14+ Ag '25
Commercial banking. W: H. Kniffin. 808p McGraw-Hill '23
Departments regarded as strictly service, like collection and exchange, will yield new business. F. R. Kerman. il Burroughs Clearing House 8:14-15+ F '24
Economist banking supplement. Economist 98:sup1-96 My 3; 99:sup1-74 O 11 '24; 100: sup4-9, 12-68 My 9; 101:sup1-76 O 10 '25
Highlights in deposit building. W. R. Morehouse. Am Bankers Assn J 17:551-2 Mr '25; Same cond. Bankers M 110:815-17 My '25
In the paying and receiving cages. F. L. Beach. Burroughs Clearing House 8:12-14+ Ap '24
Keeping the mechanics of banking abreast of the calendar. F. M. Law. Comm & Fin Chr 121:112-14 sec 2 O 17 '25
Letter to Equitable trust co. which made banking history. Comm & Fin Chr 118:1355-6 Mr 22 '24
Letters on practical banking. J: Brunton. 144p Longmans '23
Library and the bank: a comparison. M. E. Downey. Lib J 50:128-30 F 1 '25
Messenger and mailing on the minute. F. S. Yantis. il Burroughs Clearing House 8:8-9+ My '24
Money and banking. J: T. Holdsworth. 4th ed., rev. & enl. 564p Appleton '23
Most popular bank in town. F. Silsby. Burroughs Clearing House 10:17-18 N '25
New kind of sales talk; the Union trust company uses good music to create good-will. System 47:746 Je '25
New modern illustrative banking. C: B. Fowler. 107p American book co., New York '25
Old-time banking practice. Bankers M 110: 337-9 F '25
Opportunities for diversified banking. H. B. Craddick. Am Bankers Assn J 16:514-15 F '24
Our gullible friend the banker. G: Woodruff. Nation's Business 13:42-4 N '25
Picking out your bank. H: P. Willis. Management & Adm 7:73-7 Ja '24
Practical banking; prepared for the Extension division of the University of Wisconsin. G. W. Jamieson. 214p McGraw-Hill '25
Practice in the heart of the bank; the loan and discount department. F. L. Beach. Burroughs Clearing House 8:18-20+ Mr '24
Problems and questions on banking. G: W: Edwards. 31p New York univ. book store, New York '24
Relation of loans, reserves and deposits. J. A. Fitzgerald. Am Bankers Assn J 17:479 Ja '25
Relations of a commercial bank to the business cycle. W: L. Crum and H. B. Vanderblue. charts Harvard Business R 3:297-311 Ap '25
Relationship between banker and accountant. W. W. Head. J Account 38:1-5 Jl '24; Same. Paper Tr J 79:54-6 Jl 24 '24
Selecting a bank. G. A. O'Reilly. Credit M 26:18+ Ag '24
Six days in a bank. B. W. Griffin. Bankers M 109:871-2 N '24
Sources of foreign credit information. A. S. Hillyer. U S Bur For & Dom Com Trade Information Bul 292:1-46 '24
Standard banking. 512p American inst. of banking, New York '24
Things to tell your men. G: E. Roberts. Nation's Business 13:60+ Mr '25
Upon the welfare of the farmer depends the success of the banker. O. J. Sands. Manuf Rec 88:67-9 Jl 23 '25
Use of statistics in the determination of bank policy. W. F. Gephart. Econ W n s 27:112-15 Ja 26 '24
Uses of bank funds. W. F. Mitchell. 181p Univ. of Chicago press '25
What the business man can learn from the banker. il System 46:42-5+ Jl '24
When the bankers step in; an authorized interview with James H. Perkins. J. H. Collins. Nation's Business 11:25-7 D '23
Your bank account; how profitable is it to the bank? W. H. Steiner. Credit M 26:12+ Ap '24

See also Acceptances; Advertising and bankers; Agricultural credit; American bankers' association; American institute of banking; Bank accounting; Bank advertising; Bank buildings; Bank deposits; Bank failures; Bank notes; Banking law; Burglary; Checks; Christmas savings clubs; Clearing houses; Credit; Discount; Drafts; Escrows; Federal farm land banks; Federal reserve banks; Foreign exchange; Interest; Intermediate credit banks; Investment banking; Land banks; Letters of credit; Loans, Bank; Overdrafts; Postal savings banks; Safe deposits; Savings banks; Savings deposits; Trust companies

Bibliography

Bank and its library. 16p Ronald press
Books of a bank library. M. L. Frey. Am Bankers Assn J 17:400+ D '24

Branch banking

Annual report of the Comptroller of the currency; views regarding branch banking. Comm & Fin Chr 117:2604-6 D 15 '23
At work with the advisory boards. W. Greenough. il Burroughs Clearing House 8:8-9+ Jl '24
Branch bank crisis in California. R. B. Westerfield. Annalist 26:373+, 510 S 25, O 23 '25
Branch banking and the small borrower. M. D. Miller. Bankers M 109:19-22 Jl '24; Discussion. E. Platt. 109:575 O '24
Branch banking as a means of preventing bank failures. E. Platt. Credit M 27:14+ Jl '25
Branch banking forum. Am Bankers Assn J 16:692-3 My '24
Branch banking in the United States. Fed Res Bul 10:925-40 D '24; Excerpt. Comm & Fin Chr 119:2958-9 D 27 '24
Branch banking in the United States and Canada. Economist 100:745-6 Ap 18 '25
Branch banks vs. national banks; competition between state and national banks imperils the Federal reserve system. E: A. Bradford. Annalist 23:455-6 Ap 14 '24
Bringing the bank to you. A. H. Temple. Comm & Fin 13:991-3 My 21 '24
California branch banking vs. unit banking. R. B. Westerfield. Annalist 26:479+ O 16 '25
Comptroller's defense of the national banking system. Bankers M 108:177-9 F '24
Dawes urges Congress to settle branch bank issue. Am Bankers Assn J 16:450+ Ja '24
Declaration of policy on branch banking by the Federal reserve board. Comm & Fin Chr 117:2036-8 N 10 '23
Development of branch banking in Sweden. H. Melin. Bankers M 109:417-19+ S '24
Does branch banking prevent bank failures? A. J. Frame. Manuf Rec 88:75-6 Jl 9 '25

BANKS and banking—Branch banking—*Cont.*

Early action by Congress planned for McFadden bill. R. A. Lewis, jr. Am Bankers Assn J 17:295-7 N '24

Four current banking problems. J. F. Sartori. Am Bankers Assn J 18:356+ N '25

Harmony on branch banking. Bankers M 109: 767+ O 31 '24

Hearing before United States Supreme court on right of national banks to establish branches. Comm & Fin Chr 117:2283 N 24 '23

How 3,000 banks voted on branch banking. Bankers M 110:9-12 Ja '25

Impending changes in American banking. Bankers M 109:1053-5 D '24

McFadden bill analyzed. G: W. Pepper. Am Bankers Assn J 17:203-4 O '24; Same. Comm & Fin Chr 119:91-2 sec 2 O 18 '24

McFadden bill and branch banking. E: Elliott. Comm & Fin 13:994-5 My 21 '24

McFadden bill and branch banking. T: B. Paton. Comm & Fin Chr 121:147-50 sec 2 O 17 '25; Same cond. Am Bankers Assn J 18:257-8 O '25; Abstract. Bankers M 111: 563-5 O '25

McFadden bill debate. Annalist 25:157+ Ja 26 '25

Meeting in Atlantic City of opponents of branch banking. Comm & Fin Chr 121:1639-40, 1749-50 O 3-10 '25

Missouri statute prohibiting branch banking enforceable against national banks. Bankers M 108:381-4 Mr '24

National bank branches condemned. Comm & Fin 13:299 F 6 '24

New regulations of Federal reserve board governing branches of state bank members of system. Comm & Fin Chr 118:1611, 1733-5 Ap 5-12 '24

Only method to preserve independent banking; county clearing houses and bureaus of credit versus branch banking. C. A. Chapman. Am Bankers Assn J 18:88+ Ag '25

Report of the comptroller of the currency. Comm & Fin Chr 119:2593-4 D 6 '24

Representative McFadden's banking bill passes House—branch banking provisions. Comm & Fin Chr 120:282-7 Ja 17 '25

Representative McFadden's statement on bill to modernize national bank laws—anti-branch banking bill. Comm & Fin Chr 118: 2895-7 Je 14 '24

Resolutions of Federal reserve board restricting branches of state banks seeking membership; minority report; opinions. Comm & Fin Chr 117:2051-5 N 10 '23

Resolutions of New Jersey bankers association on branch banking. Comm & Fin Chr 120:145-7 Ja 10 '25

Reserve system heads drive for branch banking. Comm & Fin Chr 121:407 Jl 25 '25

Right of national banks to establish branches. Comm & Fin Chr 117:2380-4 D 1 '23

State laws relating to branch banking. Fed Res Bul 11:182-7 Mr '25

Survey of branch banking. Am Bankers Assn J 17:444-5+ Ja '25

Tennessee Supreme court upholds constitutionality of new state law restricting establishment of branch banks—text of the law. Comm & Fin Chr 121:531 Ag 1 '25

To preserve our independent banking system; Hull amendment to McFadden-Pepper bill. Am Bankers Assn J 17:199-200 O '24

United States Supreme court upholds state prohibition against branches of national banks. Comm & Fin Chr 118:472-3, 506-9 F 2 '24: Same abr. Fed Res Bul 10:281-6 Ap '24; Excerpt. Am Bankers Assn J 16:532-3+ F '24; Abstract. Bradstreet's 52:77 F 2 '24

Unsound banking the wheat farmer's curse; branch banks would serve him best. E: A. Bradford. Annalist 23:183+ F 4 '24

Why section 9 is necessary to the National bank bill. L. T. McFadden. Am Bankers Assn J 18:313-14+ N '25

See also Banks and banking—Foreign branches

Central banks

Central banks of issue organized since 1919. Fed Res Bul 11:269-70 Ap '25

Foreign banking and business conditions; annual reports of central banks for 1924. Fed Res Bul 11:340-4 My '25

Monetary control—the power of a central bank. H. Withers. Comm & Fin Chr 120: 1265 Mr 14 '25

Checking accounts

Advertising value and community return from small accounts carried at an actual expense. F. Roberts; B. G. Huntington. Comm & Fin Chr 119:140-5 sec 2 O 18 '24; Abstract. Am Bankers Assn J 17:234 O '24

Charge of the right brigade. D. Graham. Am Bankers Assn J 17:567+ Mr '25

Charity checking account. J. C. Cashen. Nation's Business 13:72+ F '25

Crusade against losing bank accounts. O. H. Wolfe. Bankers M 110:1045 Je '25

A customer looks at his bank. A. Street. Nation's Business 12:70-1+ S '24

Defending the small checking account. Nation's Business 13:64-5+ O '25

Discussion of unprofitable accounts. Bankers M 109:801-3 O 31 '24

Expense of handling small checking accounts. D. A. Mullen. Bankers M 109:291-2 Ag '24

How long will we tolerate $30 balances? A. F. Wright. Bankers M 109:559-62 O '24

How to exact service charges. E: H. Effing. Am Bankers Assn J 17:610 Ap '25

How to make an analysis of the cost of accounts. O. H. Wolfe. Am Bankers Assn J 17:427-31 Ja '25

Making the small checking account pay part of its keep. Ptr Ink 133:105-7 O 29 '25

Number of not sufficient funds checks has been reduced 50 per cent. E. W. Short. Burroughs Clearing House 9:16+ Ag '25

Problem of the service charge. M. R. Sturdevant. Bankers M 111:18 Jl '25

Service at a loss does not gain customers' good will. Am Bankers Assn J 18:29+ Jl '25

Service charge on small accounts. Comm & Fin Chr 119:2576-8 D 6 '24

Shall we charge the little fellow? A. F. Wright. Burroughs Clearing House 9:19-20+ O '24

Shall we charge the unprofitable account. J: F. Tufts. Comm & Fin Chr 119:119-21 sec 2 O 18 '24; Same cond. Am Bankers Assn J 17:228-9 O '24; Excerpt. Bankers M 109:813-15 O 31 '24; Discussion. Comm & Fin Chr 119:126-7 sec 2 O 18 '24

Small checking accounts and the service charge. D. R. Hanson. Bankers M 109:201-3 Ag '24

Three evils of competition; the dangerous depositor, the unprofitable account and too much free service. W. R. Morehouse. Am Bankers Assn J 17:365-6 D '24

Unprofitable accounts—how to turn them into earners. D. A. Mullen. Am Bankers Assn J 17:7-8+ Jl '24

What kind of an account does my bank expect me to carry? System 48:268-9+ S '25

Collection agreements

Standard form of collection agreement. T: B. Paton, jr. Am Bankers Assn J 17:458-60 Ja '25

Correspondent banks

Correspondent banks and the Federal reserve system. J. Demmery. Univ J of Business 2:288-309 Je '24

Your balance with depository banks; the high price of service. J. H. Collins. Burroughs Clearing House 9:5-7+ O '24

Costs

Costs of banking. A. H. Temple. Comm & Fin 14:1185-6 Je 17 '25

Measuring stick for bank expenses. Am Bankers Assn J 18:36 Jl '25

Meet an old friend, per item cost. H. W. Sanders. Burroughs Clearing House 9:14-16 Ap '25

BANKS and banking—*Continued*

Country banks

Bankers' balances as the first sign of the turn in money demand. R. A. Lewis, jr. Am Bankers Assn J 17:555-6 Mr '25

Better protection for country banks. C. A. Chapman. Comm & Fin Chr 119:121-3 sec 2 O 18 '24; Same cond. Am Bankers Assn J 17:265+ O '24

Bringing the American institute of banking to the country bank. S. I. Miller. Am Bankers Assn J 17:229 O '24

Closer co-operation between country banks. W. J. Bailey. Comm & Fin Chr 121:125-9 sec 2 O 17 '25; Same cond. Am Bankers Assn J 18:250-1+ O '25

Country banker sees the show; as told to Wellesley Tufts. il Nation's Business 13: 28-30 Ap '25

Give the country bank this additional protection. C. B. Hazlewood. Am Bankers Assn J 17:750+ Je '25

How country banks may increase the confidence of customers. J: C. McNeil. Am Bankers Assn J 18:362 N '25

In defense of the country banker. R: W. Saunders. Bankers M 109:589-91 O '24

Money to loan—few takers. C: M. Harger. Am Bankers Assn J 18:177+ S '25

On what should a country bank extend credit? F. S. Wettack. Bankers M 110:965-71; 111: 19-23, 171-4, 323-5 Je-S '25

Relief for the country bank. L. T. McFadden. Am Bankers Assn J 17:665-6+ My '25

Dictionaries

Encyclopedia of banking and finance. G. G. Munn. 586p Bankers pub. co., New York '24

Finance

Bank profits and shares. Economist 99:sup6 O 11 '24

Banking profits. Economist 100:sup7-8 My 9 '25

Decline in national bank earnings. B. Johnson. Am Bankers Assn J 18:231-3 O '25; Same. Comm & Fin Chr 121:109-12 sec 2 O 17 '25; Excerpts. Bankers M 111:557-9 O '25

Latest balance-sheets of foreign banks having London offices and of British banks trading abroad. Economist 99:sup58+ O 11 '24

Moderate earnings of banks. Am Bankers Assn J 18:4+ Jl '25

1924 bank accounts. Economist 100:sup5-6 My 9 '25

Tracing the causes of small net earnings in banks. Am Bankers Assn J 17:75-6 Ag '24

See also Banks and banking—Investments

Foreign banking departments

Foreign banking business in America. H. G. P. Deans. Bankers M 110:67-8+ Ja '25

Foreign branches

American banks and American foreign trade. J. P. Warburg. Harvard Business R 3:20-6 O '24

First national bank of Boston, Buenos Aires branch. il Bankers M 111:450-4 S '25

Foreign branches of American banks. Fed Res Bul 11:407-8 Je '25

How American banks go abroad. J: Oakwood. Annalist 25:710 My 25 '25

Laws and practices affecting the establishment of foreign branches of banks. 34p U.S. Chamber of commerce, Finance dept., Washington, D.C. '23

See also Bankers' association for foreign trade; International banking corporation, New York

Guaranty of deposits

Guaranty law in Nebraska. Am Bankers Assn J 17:778 Je '25

Guaranty of bank deposits; state laws. Fed Res Bul 11:626-68 S '25

Instead of a state guaranty law. R. O. Kaufman. Am Bankers Assn J 17:486+ F '25

Savings deposit credited with interest in excess of prescribed rate not protected by guaranty fund. Bankers M 110:992-3 Je '25

History

Banks and modern investment. A. M. Sakolski. Burroughs Clearing House 9:30+ D '24

Early history of banking in America. R: W. Edmonds. Manuf Rec 86:73-5 Ag 21 '24

In the days of the chopping block; a retrospect of fifty years. C. R. Smeiser. Burroughs Clearing House 8:24-6+ Mr '24

Interest coupons

Who pays all of these coupons? N. W. Kindgren. Burroughs Clearing House 9:15-16 Jl '25

Investment advisory departments

Carrying away the steel grill between the banker and his customer; investment advisory departments. J: K. Fitch. Bankers M 109:1033-6 N '24

Investments

Bank's long-term investments. G. G. Munn. Bankers M 108:277+ F '24

Capitalizing prosperity. L. P. Talley. Comm & Fin 13:2411 D 17 '24

How a big bank plans its investments. L. P. Ayres. Am Bankers Assn J 17:63-5 Ag '24

How heavily should a bank invest in bonds? G. E. Maine. Am Bankers Assn J 17:72+ Ag '24

Institutional investing. J: Moody. Forbes 16: 173-5 My 15 '25

Investments of banks and insurance companies. F. E. Richter and A. Standish. Harvard Business R 3:414-23 Jl '25

Investments of national banks in six geographic sections of the United States; dates of call, 1901-14. R Econ Statis 7:100 Ap '25

List of legal investments for Maine savings banks. Comm & Fin Chr 121:354-6 Jl 18 '25

National bank real estate loans. L: Alexander. Am Bankers Assn J 18:323-4 N '25

Real estate loans for national banks. T: M. Steele. Bankers M 109:804-5 O 31 '24

Security investments of national banks. W. Muhlbach. Am Bankers Assn J 17:307-8 N '24

World afraid of production. B: M. Anderson, jr. Chase Econ Bul 5:13-16 Ag 24 '25; Same (Capital investment of bank credit). Annalist 26:243 Ag 28 '25

See also Loans, Bank; Savings banks—Investments

Law

See Banking law

Protection

Crimes against banks increase. J. E. Baum. Am Bankers Assn J 17:253-4 O '24; Same cond. Econ W n s 28:528-9 O 11 '24

Keep the "heat" going for the yegg. H. McLellan. Burroughs Clearing House 9:12-13+ Jl '25

Strategy to stop the noon holdup. H. McLellan. il Burroughs Clearing House 9:12-14+ Mr '25

See also Burglar alarms

Public relations

Helping the public to understand banks. W: Hayes. Bankers M 110:985-6 Je '25

Records

The central file that centralizes. Z. Brown. Burroughs Clearing House 9:13-15+ Ja '25

How long should records be stored? A. F. McCarty. Burroughs Clearing House 9:9-10 Ja '25

Reports

Standardized typewritten layout. G. Wilson. Burroughs Clearing House 8:8-9+ Mr '24

Safe deposits

See Safe deposits

BANKS and banking—*Continued*

Safe keeping departments

Simple method for handling a safe keeping department. M. McLean. Am Bankers Assn J 17:335+ N '24

Savings departments

Unit plan for savings departments. H. C. Hausman. Bankers M 108:707-10 My '24

Securities

See Bank notes; Banks and banking—Stock

Service

And so they'll believe in service. W. R. Morehouse. il Burroughs Clearing House 8:17-18 My '24

Are banks giving too much free service? J. D. Yerkes. Bankers M 109:363-6 S '24

Bank co-operation in community extension work. E. B. Harshaw. il Bankers M 110: 627-33 Ap '25

Banker-farmer cycle in Nebraska. C. L. Dow. il Burroughs Clearing House 8:17-18+ Ag '24

Better banking service for industry; the industrial department protects bank and benefits customers. H. E. Martin. Bankers M 108:697-704 My '24

Border lines in bank competition. O. F. Hevener. Bankers M 108:194-7 F '24

Community development phase of bank agricultural work. E. B. Harshaw. Bankers M 110:795-800 My '25

Community need of bankers' interest in better agriculture. E. B. Harshaw. il Bankers M 110:21-6 Ja '25

Community survey in bank agricultural work. E. B. Harshaw. Bankers M 110:243-7 F '25

Does it pay banks to help farmers? E. B. Harshaw. Bankers M 110:973-8 Je '25

Enter, the banking service station. J. K. Waibel. Burroughs Clearing House 9:8-9+ O '24

Even banks have a line to sell. Ptr Ink 132: 81-2 Ag 6 '25

Farming on a business basis with banker's aid. R. Alden. Forbes 16:737-9 S 1 '25

Fourth-prize winner in $1,000 banking service contest. H. M. B. Lehn. Forbes 13:706-8+ Mr 15 '24

Free bus rides provided for bank depositors. il map Bus Transportation 3:266-7 Je '24

Fur storage as a bank service. A. C. Bossom and A. W. W. Marshall. il Bankers M 111:419+ S '25

How the banker can promote closer personal contact with the farmer. E. B. Harshaw. il Bankers M 110:459-68 Mr '25

How the First national bank of Tarboro, N.C., has come to be a blessing to all the dwellers round about. K. G. Batts. il Forbes 13:514-16+ F 2 '24

How the Grove City National helps the farmer. E. B. Harshaw. il Bankers M 108: 187-93 F '24

How we serve steel. J. R. Kraus. Credit M 26:15 N '24

Humanizing of banking. R. Parlette. Bankers M 110:311-12 F '25

Industrial service department. A. H. Garside. Bankers M 108:215-17 F '24

Making capitalists—200,000 of them. W. Bishop. Nation's Business 13:36-8 Jl '25

My bank helps me own securities. P. H. Jewett. Burroughs Clearing House 9:15-16+ Je '25

Omaha National officers and employees active community workers. J. W. Hanbery. Forbes 13:573-4 F 16 '24

Providing investments for the savings depositors. V. R. Patterson. Am Bankers Assn J 17:623+ Ap '25

S. G. H. Turner of Elmira—the home-town boy who made good. E: Hungerford. Ptr Ink M 7:27-8+ D '23

Specialized service for shop men. C. B. Trost. Burroughs Clearing House 8:15-16+ S '24

Stop that playing with money. J. T. Tyrrell. Burroughs Clearing House 9:39+ Ja '25

Three evils of competition; the dangerous depositor, the unprofitable account and too much free service. W. R. Morehouse. Am Bankers Assn J 17:365-6 D '24

What banks are doing to prevent failures. J: A. Murphy. Bankers M 110:265 F '25

What is your bank doing for you and your community? E: Cantor. il Forbes 13:436-8+ Ja 19 '24

Winning of the emigrant; two New York savings banks. R. A. Lewis, jr. il Am Bankers Assn J 17:435-8 Ja '25

Your balance with depository banks; the high price of service. J. H. Collins. Burroughs Clearing House 9:5-7+ O '24

See also Agricultural clubs; Banks and banking—Checking accounts; Trust companies—Service

Service charges

See Banks and banking—Checking accounts

Statistics

Bankers' gazette. See weekly numbers of Economist

Banking profits. Economist 98:sup7-8 My 3 '24

Banks and trust companies; quotations. Published in monthly Bank and quotation section of Commercial and financial chronicle

Debits to individual accounts. Survey of Cur Business 30:25 F '24; 45:19 My '25

Foreign banking and business conditions. Published in monthly numbers of Federal reserve bulletin

Mid-year review of banking statistics. Fed Res Bul 10:559-70 Jl '24

Mid-year summary of banking statistics. Fed Res Bul 11:478-82 Jl '25

Statistics of debits to individual accounts. Published in monthly numbers of Federal reserve bulletin beginning July, 1924

Trend of business movements. Published in monthly numbers of Survey of current business

Use of bank debits as a business index. R. A. Warren. Annalist 26:373 S 25 '25

Stock

Bank shares. Economist 98:sup10-11 My 3 '24

Bank stocks. Moody's Inv Serv 16:401-4; 17: 218 O 30 '24, Jl 2 '25

Letting employes buy the bank. F. R. Kerman. Nation's Business 13:78+ N '25

Value of bank shares as investments. P. Gourrich. Annalist 25:413, 445-6, 550-1+, 613-14, 869-70; 26:53+, 117, 183, 309-10+ Mr 23-30, Ap 20, My 4, Je 29, Jl 17, 31, Ag 14, S 11 '25

Taxation

Banks burdened by state taxes. Am Bankers Assn J 17:710+ My '25

Double taxation of bank stock and dividends. T: B. Paton. Am Bankers Assn J 18:336 N '25

New York city tax commissioners deny petition of 16 banks for cancellation of assessments under moneyed capital tax law. Comm & Fin Chr 121:939 Ag 22 '25

Report of the A.B.A. committee on state taxation. Comm & Fin Chr 121:97-8 sec 2 O 17 '25

United States Supreme court upholds Iowa law taxing shares of national banks. Comm & Fin Chr 117:2713 D 22 '23

Trust departments

Complex task of selling your trust department to the public. T. T. Weldon. Bankers M 110:267-71 F '25

Organizing a trust department in a national bank. J. W. Hudston. Am Bankers Assn J 16:581-2 Mr '24

Should small banks enter the trust field? L. McWhinney. Am Bankers Assn J 17:329-30 N '24

Some effective ways to advertise a trust department. H. B. Allen. Am Bankers Assn J 17:496+ F '25

BANKS and banking—Trust departments —*Continued*
Success of a trust solicitor. H. F. Drollinger. Am Bankers Assn J 18:30+ Jl '25
Trust business in Arkansas. R. Neill. Am Bankers Assn J 16:811-12 Je '24
Trust department earnings. W. J. Kieferdorf. Am Bankers Assn J 18:169+ S '25
Trust department in a small community. J: Allen. Bankers M 110:641-5 Ap '25; Same cond. Am Bankers Assn J 17:506+ F '25
Trust departments of national banks. N: Dosker. Bankers M 110:807-8 My '25

Trust fund savings accounts
Passing of a will-less estate. J. E. McGuigan. Am Bankers Assn J 17:332+ N '24

Trust powers
Trust powers of national banks. T: B. Paton. Am Bankers Assn J 17:570 Mr '25

Women's departments
Bank ways with the women of Utica. I. M. Henry. Burroughs Clearing House 9:15-16+ O '24
Women's department. A. Seward. 120p Bankers pub. co., New York '24
See also Bank of Italy—Women's department

Africa
African banks; balance sheets. Economist 99: sup8-9, 24+ O 11 '24; 100:sup52+ My 9; 101: sup8-9, 24-8 O 10 '25

Australasia
Australasian banks; balance sheets. Economist 99:sup11-12, 28+ O 11 '24; 100:sup54-60 My 9; 101:sup9-10, 28-40 O 10 '25
Bank of Australasia (incorporated) 91st annual meeting, London, April 2. Economist 100:666-8 Ap 4 '25

Australia
Commonwealth bank of Australia. Economist 99:193-4 Ag 2 '24
Commonwealth bank of Australia. D. B. Copland. Econ J 35:145-8 Mr '25
Projected enlargement of the Commonwealth bank of Australia. Econ W n s 28:451 S 27 '24
Royal bank of Australia. Economist 100:1199-1200 Je 13 '25

Austria
Mercurbank in Vienna. il Bankers M 110: 103-10 Ja '25
National bank of Austria; abridged report for the year ended Dec. 31, 1924. Economist 100: 1262-4 Je 20 '25; Abstract. Fed Res Bul 11: 495-6 Jl '25
Why Europe's banks survived the war. B: F. Castle. Bankers M 109:1122-4 D '24

Belgium
Belgian national bank in 1924. Fed Res Bul 11:416-17 Je '25
Belgium's banking facilities. il Dun's Int R 43:73+ Mr '24; Same. World's Markets 15:14-15 Ap '24

Brazil
Banco do Brasil; annual general meeting, April 26, 1924. Economist 98:1213-18 Je 14 '24
Bank of Brazil annual general meeting, Rio de Janeiro, April 28. Economist 100:1145-7 Je 6 '25
Recent rapid increase of the note issues of the Banco do Brasil. Econ W n s 28:883 D 20 '24

California
Branch bank crisis in California. R. B. Westerfield. Annalist 26:373+ S 25 '25
California branch banking vs. unit banking. R. B. Westerfield. Annalist 26:479+, 510 O 16-23 '25

Canada
Bank of Montreal, 106th annual meeting. Comm & Fin Chr 117:2632-3 D 15 '23
Bank of Montreal, 107th annual meeting. Economist 99:1070-1 D 27 '24
Canadian and W. I. banks. Economist 100:sup 60-6 My 9 '25
Canadian banks; balance sheets. Economist 99:sup12-13, 40+ O 11 '24; 101:sup11-12, 40-4 O 10 '25
Canadian branch bank system. S. P. Panton. Manuf Rec 88:108-9 S 3 '25
Chartered bank list is cut to eleven in Canada. Comm & Fin Chr 120:3015 Je 13 '25
Comparative figures of condition of Canadian banks. Comm & Fin Chr 119:2479 N 29 '24 [continued monthly]
Concerning American collections in Canada. M. L. Aiken. Burroughs Clearing House 8: 20+ Je '24
Home bank of Canada. Comm & Fin Chr 118: 281 Ja 19 '24
Why Canada is not prospering relatively to the growth of the United States. Manuf Rec 88:53-4 S 24 '25

Chicago
About the Chicago money market. I. Wright. il Burroughs Clearing House 9:10-11+ S '25
Chicago—a banking phenomenon. J: Oakwood. Forbes 14:655-7+ S 1 '24

China
Hongkong and Shanghai banking corporation. Economist 98:793-6 Ap 12 '24
World's oldest bankers seize the new idea. J. Arnold. il Am Bankers Assn J 17:82+ Ag '24

Czechoslovakia
Czechoslovak banks at end of year. Comm & Fin Chr 118:499 F 2 '24

Egypt
National bank of Egypt, 24th annual general meeting. Economist 98:645-6 Mr 22 '24
National bank of Egypt 25th annual general meeting, Cairo, Mar. 19. Economist 100:609-10 Mr 28 '25

Europe
Foreign banking and business conditions; annual reports of central banks for 1924. Fed Res Bul 11:340-4 My '25

Finland
Aktiebolaget unionbanken. il Bankers M 110: 580-2 Mr '25
Important factor in Finland's economic life. il Bankers M 110:596-8 Mr '25

Florida
Florida bankers—minding their business and going along. J. H. Collins. Am Bankers Assn J 18:315-16+ N '25
Florida banks avoid real estate. Comm & Fin Chr 121:2234 N 7 '25

France
French commercial banking in 1924. Fed Res Bul 11:494-5 Jl '25; Same. Econ W n s 30: 190-1 Ag 8 '25
New business in the French capital. A. Seward. Bankers M 109:873-6 N '24
Les sociétés de crédit et banques à succursales en France. G. Normand. 209p Perrin & co., Paris '24
See also Bank of France

Germany
Annual report of German Reichsbank. Comm & Fin Chr 120:1545 Mr 28 '25
Banking in Germany. Economist 100:sup11-12 My 9 '25
Beginning of operations of the new Reichsbank. Econ W n s 28:810-11 D 6 '24
Dr. Schacht on the necessity of a real gold basis for the new German bank of issue. Econ W n s 28:161-2 Ag 2 '24
German banking. Economist 98:sup8-10 My 3; 99:15+ O 11 '24; 101:sup 15+ O 10 '25; Same (pt. 2). Econ W n s 28:657-9 N 8 '24
German banks' first stable money year. R. C. Long. Am Bankers Assn J 17:739-40+ Je '25

BANKS and banking—Germany—*Continued*
German Reichsbank. Fed Res Bul 11:340-1 My '25
Germany's new financial system. R. Clemen. Econ W n s 29:798-801 Je 6 '25
Germany's position reflected in her bank statements. H. Reinemann. Annalist 25:160+ Ja 26 '25
Leading German bank; Dresdner bank, Berlin. il Bankers M 110:1090-4 Je '25
New German bank of issue under the Dawes reparations plan. T. R. Goldsmith. Econ W n s 28:305-7 Ag 30 '24
New Reichsbank. Index p 11-13 D '24
New Reichsbank law. Fed Res Bul 10:854-8 N '24; Same. Comm & Fin Chr 119:2481-2 N 29 '24
Operations of seven leading German banks for the year 1924. S. Griffith. Bankers M 110:1027-9 Je '25
Position of German banks after scaling down. R. C. Long. Am Bankers Assn J 17:433-4 Ja '25
Proposed German gold bank. E. E. Agger. Am Bankers Assn J 16:483-4+ F '24; Same. Econ W n s 27:256-9 F 23 '24
Reorganization of the Reichsbank—one reichsmark to be issued against a billion paper marks. Comm & Fin Chr 119:1124-5 S 6 '24
Report of the Dawes committee; the new bank of issue and gold redemption. B: M. Anderson, jr. Chase Econ Bul 4:8-13 Ap 28 '24; Excerpt. Econ W n s 27:665-6 My 10 '24
Restoration of the gold basis in Germany and the capital of German banks. Econ W n s 29:116-17 Ja 24 '25
Why Europe's banks survived the war. B: F. Castle. Bankers M 109:1122-4 D '24

Great Britain

Annual reports of Westminster bank, limited, Midland bank, limited and other British banks. Economist 100:204-20 Ja 31 '25
Bank balance-sheets. Economist 98:185-6; 100: 182-4 F 2 '24, Ja 31 '25
Bankers and credit. H. Withers. 294p E. Nash & Grayson, London '24
Barclays bank, limited; F. C. Goodenough's review of economic and financial situation. Economist 100:150-4 Ja 24 '25
British and American commercial money markets. H: A. E. Chandler. Comm M 6:3-15 Je '24; Same. Econ W n s 27:871-4, 908-10 Je 21-28 '24
British bank reports. Nat City Bank p 41-7 Mr '25
British banking developments. Fed Res Bul 10:552-4 Jl '24; Same. Econ W n s 28:116-18 Jl 26 '24
British banking in 1924. Fed Res Bul 11:98-9 F '25
British commercial money market. H: A. E. Chandler. Comm M 5:3-15+ F '24; Same. Econ W n s 27:148-51, 187-9 F 2-9 '24
British overseas bank, limited. Economist 99:975-7 D 13 '24
Economist banking supplement. Economist 98:sup1-96 My 3; 99:sup1-74 O 11 '24; 100: sup4-9, 12-68 My 9; 101:sup4-6, 13-15, 36-54 O 10 '25
English banking methods. L. Le Marchant Minty. 2d ed. 458p Pitman '25
Foreign credit facilities in the United Kingdom. L. R. Robinson. 229p Columbia univ., New York '23
History and principles of banks and banking. H. T. Easton. 3d ed., enl. 308p E. Wilson, London '24
Lloyds bank, limited. Economist 98:257-61 F 9 '24
A look back—a glance ahead. Bankers M 108: 403+ Mr '24

Greece

National bank of Greece; reports. Economist 98:746-50; 100:922-6 Ap 5 '24, My 9 '25

Hungary

Foreign banking and business conditions. Fed Res Bul 11:746 O '25
Hungary's unique bank of issue. G. Adam. Annalist 24:8+ Jl 7 '24
New banks of issue in Poland and Hungary Fed Res Bul 10:487 Je '24

India

Indian banks; balance sheets. Economist 99: sup9-10, 46+ O 11 '24; 100:sup66+ My 9; 101: sup12-13, 46-8 O 10 '25
Mercantile bank of India, limited; 31st annual general meeting. Economist 98:694-6 Mr 29 '24
Mercantile bank of India, limited, 32d annual general meeting, London. Economist 100: 672-3 Ap 4 '25
National bank of India, limited; general meetings. Economist 98:754-5; 100:669-70 Ap 5 '24, Ap 4 '25

Ireland

Banking and economic conditions in the Irish Free State. T. A. Smiddy. Am Bankers Assn J 17:557-8 Mr '25
Banks in the new Free State. F. A. Christoph. il Am Bankers Assn J 16:561+ Mr '24
Century of achievement; the Northern banking company of Belfast. Bankers M 109:941-4 N '24
Irish Free State banks; balance sheets. Economist 98:sup6-7 My 3; 99:sup7, 20+ O 11 '24; 100:sup50-2 My 9; 101:sup7-8, 20-4 O 10 '25

Japan

Offering in United States of $22,000,000 notes of Industrial bank of Japan, ltd. Comm & Fin Chr 119:763-4 Ag 16 '24

Jugoslavia

Annual report of the National bank of the kingdom of Serbs, Croats, and Slovenes. Fed Res Bul 11:496-7 Jl '25
Banks of Jugoslavia. Bankers M 109:81-3 Jl '24

London

Banking in old London. A. C. Blackall. il Bankers M 109:247-51 Ag '24
Famous old London bank. il Bankers M 110:409-12 F '25

Mexico

Mexico's new bank of issue. R. G. Wasson. Econ W n s 30:413-14 S 19 '25
New Mexican bank of issue. R. Watterson. il Am Bankers Assn J 18:341-3+ N '25
New Mexican bank of issue to begin business Sept. 1. Comm & Fin Chr 121:1039, 1164-5 Ag 29-S 5 '25

Mississippi valley

Mississippi valley industries and the banker. F. J. Wade. il Am Ind 26:21-4 O '25

New York (city)

Early history of banking in America. R: W. Edmonds. Manuf Rec 86:73-5 Ag 21 '24
Himalayas of finance. J. Oakwood. Forbes 15:544-6+ F 1 '25
New York's bank consolidations. D. P. De Young. Burroughs Clearing House 9:12-14+ Je '25
Survey of New York city banks and banking. P. Gourrich. Annalist 26:53+, 117, 279, 309-10+ Jl 17, 31, S 4-11 '25
Where stocks change actual owners. J. H. Collins. il Burroughs Clearing House 9:5-7+ Ap '25

See also Bowery savings bank, New York; International acceptance bank, New York

New York (state)

New York state banks set new high marks. Bradstreet's 52:7 Ja 5 '24; Comm & Fin Chr 118:36-7 Ja 5 '24
Resources of New York state banking institutions at end of 1924 more than billion dollars greater than of year ago. Comm & Fin Chr 120:152-3 Ja 10 '25

New Zealand

Bank of New Zealand; annual general meetings. Economist 99:354-5; 101:426-8 Ag 30 '24, S 12 '25

BANKS and banking—New Zealand—*Continued*
National bank of New Zealand, limited. Economist 99:27-8 Jl 5 '24
National bank of New Zealand, limited; improved net profits. Economist 101:71-2 Jl 11 '25

Nicaragua

Nicaragua plans federal reserve system. Comm & Fin Chr 120:1957 Ap 18 '25

North Dakota

Bank of North Dakota: an experiment in agrarian banking. A. S. Tostlebe. (Studies in history, economics and public law) 210p Columbia univ., New York '24

Norway

Norway gives the depositor a voice in bank control. L: Alexander. Am Bankers Assn J 17:453-4+ Ja '25

Pacific coast

Spectacular banking growth of the Pacific coast. J: Oakwood. il Forbes 15:24-6 O 1 '24

Persia

Imperial bank of Persia. Economist 99:110 Jl 19 '24

Peru

Reserve bank of Peru. Econ W n s 28:370-1 S 13 '24

Poland

Bank of Poland. Economist 99:837 N 22 '24
Bank of Poland and the stabilization of the Polish currency. F. Mlynarski. Econ W n s 29:521-2 Ap 11 '25
New banks of issue in Poland and Hungary. Fed Res Bul 10:486-7 Je '24
New Polish bank of issue. Econ W n s 28: 89-90 Jl 19 '24

Rumania

Banks and banking. R. O. Hall. U S Bur For & Dom Com 222:30-7 '24
Progressive Roumanian bank. Bankers M 108: 947 Je '24
Three quarters of a century of success; the jubilee of the Banca Marmorosch, Blank & co., S. A., and of Mauriciu Blank. il Bankers M 108:251-4 F '24

Russia

Russia "moves all the same." R. C. Long. Am Bankers Assn J 17:605-6 Ap '25
Russian currency and banking, 1914-1924. S. S. Katsenellenbaum. 198p P. S. King & son, ltd., London '25
Russian moujik turns banker. R. C. Long. Am Bankers Assn J 17:150-1 S '24

San Francisco

When West meets East in Chinatown. F. S. Clark. il Burroughs Clearing House 9:12-13+ F '25

San Salvador

This is banking in San Salvador. M. E. Chase. il Burroughs Clearing House 9:30+ Je '25

Scandinavia

Scandinavian banking situation. D. Frothingham. U S Bur For & Dom Com Trade Information Bul 293:1-59 '24

Scotland

Bank of Scotland; annual meeting, 1924. Economist 98:753-4 Ap 5 '24
Bank of Scotland annual meeting, Edinburgh, April 7. Economist 100:721 Ap 11 '25
Centenary of the National bank of Scotland. Bankers M 110:1083-9 Je '25
Joint stock banks of Scotland. Economist 100:sup40-6 My 9 '25
Royal bank of Scotland, annual meeting, Edinburgh, Nov. 26. Economist 99:882-3 N 29 '24

South Africa

Annual report of the South African reserve bank. Fed Res Bul 11:678-9 S '25
National bank of South Africa, limited, annual meeting, 1924. Economist 99:281-2 Ag 16 '24
National bank of South Africa, limited, annual meeting, 1925. Economist 101:317-18 Ag 22 '25
Standard bank of South Africa, limited. Economist 99:157-61 Jl 26 '24; Excerpt. Bankers M 109:639-46 O '24

South America

Banking and finance in South America. R. J. Hose. Econ W n s 27:616-19 My 3 '24

South Carolina

Central state bank for South Carolina—to have relation to banks outside the national system as the Federal reserve banks have to those within. Comm & Fin Chr 117: 2169 N 17 '23

Southern states

Economic rebirth of the South reflected in banking. J: Oakwood. Forbes 15:468-70 Ja 15 '25
Fifty years of banking in the South. D. R. Crissinger. Manuf Rec 86:133-6 pt 2 D 11 '24
Sunshine—and shadow—in Dixie. A. F. Mc Carty. il Burroughs Clearing House 10: 12-14+ N '25

Sweden

Development of branch banking in Sweden. H. Melin. Bankers M 109:417-19+ S '24
Resumption of gold payments by the Swedish Riksbank. Fed Res Bul 10:483-5 Je '24; Same. Econ W n s 27:910-11 Je 28 '24

Switzerland

Banque commerciale de Bâle. il Bankers M 110:775-6 Ap '25
Swiss national bank. Bankers M 110:1095-9 Je '25
Swiss national bank. Fed Res Bul 11:341-3 My '25
Union bank of Switzerland. il Bankers M 110: 591-5 Mr '25

Texas

Movement of state banks in Texas into the national system. B. Davenport. Am Bankers Assn J 18:27-8 Jl '25

Turkey

Imperial Ottoman bank. Economist 99:111-12 Jl 19 '24

United States

American bankers are encouraging shyster promotions by opposing Treasury savings certificates. Ptr Ink 127:10+ Je 26 '24
American banking. H: P. Willis. Rev. ed. 336p La Salle extension univ., Chicago '23
American banking and world rehabilitation. H: M. Robinson. Bankers M 111:205+ Ag '25
American banking methods. L. Le M. Minty. 448p P. S. King & son, London '23
American banks in 1924. Economist 100:sup 9-11 My 9 '25
Analysis of bank statistics for the United States. A. A. Young. charts R Econ Statis 6:284-96; 7:19-37, 86-104 O '24-Ap '25
Are national banks doomed? an interview with George E. Roberts. J. M. Head. Bankers M 111:313-16 S '25
Banking situation. Nat City Bank p 7-8 Ja '25
Banking system of country is in unusually strong position. A. W: Mellon. Comm & Fin Chr 117:2724-5 D 22 '23
Banking year. F. H. McConnell. Annalist 23: 10+ Ja 7 '24
Borrowing from your bank. S. H. Patterson. 92p Ronald press '23
British and American commercial money markets. H: A. E. Chandler. Comm M 6:3-15 Je '24; Same. Econ W n s 27:871-4, 908-10 Je 21-28 '24
Business and banking developments of the year 1923. Fed Res Bul 10:1-6 Ja '24

BANKS and banking—United States—*Cont.*
By Ford and Pullman coast to coast. F. L. Beach. il Burroughs Clearing House 9:5-7+ Mr '25
Century of banking progress. W: O. Scroggs. 333p Doubleday '24
Condition of all banks in the United States on September 14, 1923. Fed Res Bul 10:66-8 Ja '24
Condition of all banks in the United States on June 30, 1924. Fed Res Bul 10:819-22 O '24
Condition of national banks under call of Comptroller of currency for April 6. Comm & Fin Chr 120:2642 My 23 '25; Same. Bankers M 110:972 Je '25
Facts and views about banking. H: M. Dawes. Bankers M 108:55-62 Ja '24
Fifty years of American banking. L: E. Pierson. Am Bankers Assn J 18:201-4 O '25; Same. Comm & Fin Chr 121:85-8 sec 2 O 17 '25; Same. Econ W n s 30:472-5 O 3 '25; Same cond. Bankers M 111:513-19+ O '25
Four current banking problems. J. F. Sartori. Am Bankers Assn J 18:356+ N '25
Greatest asset any bank can have. R. A. Lewis, jr. Am Bankers Assn J 17:735-6+ Je '25
How can we keep our national banks? an authorized interview with Henry M. Dawes. S. Bent. Nation's Business 12:27-30 N '24
Money and banking. Nat City Bank p 162-3 O '25
Monthly bank clearings show increases. Dun's R 32:9 Ag 16 '24
National bank resources, Dec. 31, 1923, greater than at date of any call since Dec. 29, 1920. Comm & Fin Chr 118:738 F 16 '24
National bank resources increase. Bradstreet's 53:530 Ag 15 '25
National banking under the Federal reserve system. 152p National city bank of New York '23
Needed relief for national banks. T: R. Preston. Am Bankers Assn J 17:232-3 O '24
New attacks on national bank system expected. M. Parsons. Annalist 23:186+ F 4 '24
Problem of national bank liquidity in the crisis and depression, 1920-1921. W. F. Mitchell. Univ J of Business 3:18-32 D '24
Recent banking developments. Fed Res Bul 10:681-5 S '24; Same. Econ W n s 28:366-9 S 13 '24
Resources of national banks September 1923. Comm & Fin Chr 117:2065 N 10 '23
Resources of national banks Dec. 31, 1924 at $24,381,281,000, highest on record. Comm & Fin Chr 120:779 F 14 '25
Resources of state banking institutions in United States compared with those of national banks. Comm & Fin Chr 121:410 Jl 25 '25
Summertime expansion in bank clearings. Bradstreet's 52:510-11 Ag 9 '24
United States Supreme court upholds right of national banks to act as executors. Comm & Fin Chr 118:2128-9 My 3 '24

See also Banks and banking—Taxation; Federal reserve banks

Washington, D.C.

See also Riggs national bank, Washington, D.C.

BANKS and banking, Cooperative
Co-operative banking. E. A. Hale. Bankers M 110:235-41 F '25
Cooperative banking in foreign countries. Monthly Labor R 18:432-3 F '24
Cooperative banking in Great Britain. S. Tyldesley. Am Bankers Assn J 18:181 S '25
Trying out cooperative banking in foreign countries. W: Notz. Am Bankers Assn J 16:733-4 My '24

See also Banks and banking, Trade union; Credit unions

BANKS and banking, Insurance
Insurance banks in Germany. A. Manes. Spectator 112:24-5 Jl 3 '24

BANKS and banking, International
Foreign exchange and international banking. G. G. Munn. Bankers M 109:455+ S '24
International bankers. D. W. Morrow. Comm & Fin 13:1517 Ag 13 '24

See also Foreign exchange

BANKS and banking, Investment. See Investment banking

BANKS and banking, Trade union
Advantages of and possible dangers to labor banking. H. W. Laidler. Monthly Labor R 21:850-2 O '25
Bank with the union label. E: S. Cowdrick. Ind Management 70:210-13 O '25
Developments in the labor bank field. G: Grimstead. Bankers M 109:1067-70 D '24
Five years' growth of brotherhood banks. C: Dillon. il Ry R 77:434-5 S 19 '25
Influence of the labor bank on the strike. Am Bankers Assn J 16:825 Je '24
Labor banking movement in the United States. S. Hillman. p. 463-72 Academy of political science, Columbia univ., New York '25; Excerpts. Nat City Bank p 12-13 Jl '25; Same. Econ W n s 30:43-5 Jl 11 '25
Labor banks in the United States. Monthly Labor R 18:431 F '24
Labor's bridge to understanding. W. S. Stone. Ptr Ink 129:103-4+ N 13 '24
Labor's money in labor's banks. Nation's Business 11:69+ D '23
Labor's window on Wall St. S. Bent. Nation's Business 12:25-6 Je '24
Leading bankers encourage labor banks. Bankers M 108:203-5 F '24
Mobilizing the saving power of American labor. C. Stetson. Forbes 14:493-4+ Jl 19 '24
Progress of labor banks in the United States. Monthly Labor R 19:217-18 Jl '24
What is labor doing with its banks? R. A. Lewis, jr. il Am Bankers Assn J 16:485-7+ F '24

Bibliography

Labor banks in the United States. L. A. Thompson. Lib J 49:281-3 Mr 15 '24

BARBATIMAO
Barbatimao. Textile Col 47:709 N '25

BARBER, Donn, 1871-1925
Appreciation. T: Hastings. por Arch Rec 58:86-7 Jl '25
Sketch. por Am Arch 127:537-8 Je 17 '25; Arch Forum 42:sup56-7 Je '25; Am Inst Arch J 13:274 Jl '25

BARBER, John Wesley
Sketch. por Ptr Ink 127:38 Je 19 '24

BARBER shops
Federal barber shop, Pershing Square building, New York city. Arch & Bldg 55:113-14, pl 232 N '23

BARBERS
Barbers' agreement, Brooklyn, N.Y. Monthly Labor R 21:755 O '25

BARBITURIC acid
Alkyl-allyl-barbituric acids. E. H. Volwiler. Am Chem Soc J 47:2236-40 Ag '25
Barbital duty is based on American valuation. Oil Paint & Drug Rep 106:19 N 17 '24
Ethyl-normal-hexylbarbituric acid and other derivatives of normal-hexylmalonic acid. A. W. Dox. Am Chem Soc J 46:1707-11 Jl '24
Ethylphenethyl-barbituric acid and related derivatives. A. M. Dox. Am Chem Soc J 46:2843-6 D '24
Some new derivatives of barbituric acid. V. Voorhees and G. S. Skinner. Am Chem Soc J 47:1124-7 Ap '25

BARCELONA traction, light and power company, ltd.
Annual report, 10th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2680-1 My 23 '25

BARGAIN sales
How retailers regard semi-annual sales. L. S. Arthur. Ptr Ink M 9:55-6+ Ag '24

See also Department stores—Bargain basements

BARGES
Building barges of channel sections bolted together. il Marine Eng 29:148 Mr '24

BARGES—*Continued*
Building barges of steel channels. il Sci Am 131:259 O '24
Completely arc-welded barge Independent. W. L. Warner. il diags plan Gen Elec R 28:66-70 Ja '25
Ellis channel steel barges for the New York Central. il diags Marine Eng 30:432-4 Ag '25
Federal barge line proving costly experiment; Mississippi-Warrior service. il Ry Age 76: 381-3 F 9 '24; Same. Eng & Contr (Ry) 61: 1364-7 Je 18 '24
First one-piece vessel welded by electricity. il Elec W 84:1374 D 27 '24
Large derrick barge on coast. il Iron Age 116:1253 N 5 '25
New barges built of channels. G. S. Clark. il Marine R 55:286-8 Ag '25; Same. Iron Tr R 77:622-4 S 10 '25
River transportation. A. E. Crockett. il diags Eng Soc W Pa 40:1-12; Discussion. 13-26 F '24
Waterway and railway equivalents. W: M. Black. Am Soc C E Pro 50:842-4 Ag '24
See also Refrigerator barges; Tank barges

Testing
Speed and power of shallow draft vessels. diags Marine Eng 30:590-3 O '25

BARGES, Concrete
Concrete water barge resists sea water. il Concrete 24:246 Je '24

BARITE
Barytes production increased in 1923. Eng & Min J 118:171 Ag 2 '24
Crystal structure of barite. L. Pauling and P. H. Emmett. Am Chem Soc J 47:1026-30 Ap '25
Reflection of X-rays by barite. S. K. Allison. Am J Sci 5th ser 8:261-76 O '24
Space group of barite ($BaSO_4$). R. W. G. Wyckoff and H. E. Merwin. Am J Sci 5th ser 9:286-95 Ap '25

BARIUM
Barium and strontium amalgam electrodes. P. S. Danner. diags Am Chem Soc J 46:2385-90 N '24
Preparation of very pure barium and strontium. P. S. Danner. diag Am Chem Soc J 46:2382-5 N '24

BARIUM chloride
Activity coefficients and transference numbers of the alkaline earth chlorides. W. W. Lucasse. diags Am Chem Soc J 47:743-54 Mr '25
Aqueous pressure of hydrated crystals; oxalic acid, sodium sulfate, sodium acetate, sodium carbonate, disodium phosphate, barium chloride. G. P. Baxter and W: C. Cooper, jr. Am Chem Soc J 46:923-33 Ap '24
Free energy of dilution and the activity of the ions in aqueous solutions of barium chloride. J. N. Pearce and R. W. Gelbach. J Phys Chem 29:1023-30 Ag '25

BARIUM dioxide
Evaluation of barium dioxide. E. C. Wagner. Ind & Eng Chem 17:972-4 S '25

BARIUM hydroxide
Velocity of reaction in mixed solvents; the influence of the base on the velocity of saponification of esters in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 125:2590-5 D '24

BARIUM iodide
Equilibrium between iodine and barium iodide in aqueous solutions. J. N. Pearce and W. G. Eversole. J Phys Chem 28:245-55 Mr '24

BARIUM manganate
Solubility product of barium manganate and the equilibrium between manganate and permanganate ions. H. I. Schlesinger and H. B. Siems. diag Am Chem Soc J 46:1965-78 S '24

BARIUM oxide
Barium process of de-sugarizing beet molasses. H. W. Dahlberg. flow sheet il Am Inst Chem Eng Trans v 16 pt 1:35-44 '24; Same. Chem & Met Eng 31:100-3 Jl 21 '24; Discussion. Am Inst Chem Eng Trans v 16 pt 1:44-5 '24
See also Barium dioxide

BARIUM sulfate
Co-precipitation of radium and barium sulfates. H. A. Doerner and W: M. Hoskins. Am Chem Soc J 47:662-75 Mr '25
Ionium; recovery of ionium from carnotite—adsorption of ionium-thorium by barium sulfate—ionium-thorium ratio in carnotite. G. D. Kammer and A. Silverman. Am Chem Soc J 47:2514-22 O '25
Wetting of barium sulfate. V: Lenher and H. G. Taylor. J Phys Chem 28:962-4 S '24
Why are photographic papers coated with barium sulphate? Paper Tr J 79:38+ Ag 7 '24
See also Barite

BARIUM sulfides
Barium polysulphide in sulphidizing oxidized ores for flotation. E. S. Leaver and H. M. Lawrence. U S Bur Mines Rep of Invest 2698:1-4 Ag '25 (typew); Abstracts. Chem Age (Lond) 13:278 S 12 '25; Eng & Min J 120:657 O 24 '25
Reduction of sulphates with hydrogen gas. Chem Age 32:280-1 Je '24

BARK
Bark driers and refuse burning. G: D. Bearce. diags Tech Assn Pa ser 7:60-1 Je '24; Same. Paper Tr J 79:39-40 Jl 17 '24
Northern bark press. il Paper Tr J 79:47 D 25 '24
Proteins of the bark of the common locust tree, Robinia pseudacacia; abstract. D. B. Jones, C. E. F. Gersdorff, and O. Moeller. J Fr Inst 200:678-9 N '25
Utilization of pulpwood bark for fuel. J: D. Rue and E. P. Gleason. il chart diags Tech Assn Pa ser 7:49-59 Je '24; Same. Paper Tr J 78:40-50 Ap 17 '24

BARKHAUSEN effect
Barkhausen effect. E. P. T. Tyndall. il diags Phys R 24:439-51 O '24

BARNS and stables
Beef-cattle barns. E. W. Sheets and M. A. R. Kelley. U S Agric Farmers' Bul 1350:1-17 '23
Gothic barn roofs. il diags Eng & Contr (Bldgs) 61:461-3 F 27 '24
Modern dairy barn. il plan Bldg Age 47:133-4 Ja '25
Pennsylvania stone barn after woodcuts by J. J. Lankes. Am Inst Arch J 11:463-6 D '23
Reducing building costs on the farm. B. F. Clark. il plan Bldg Age 46:80 S '24
Remodeling the old barn. E. A. Martini. il plans Bldg Age 47:139 S '25
Some thoughts about barns. il Am Inst Arch J 12:431-7 O '24
See also Garages; Mine stables

Heating and ventilation
Principles of dairy-barn ventilation. M. A. R. Kelley. il diags map U S Agric Farmers' Bul 1393:1-22 '24

BARNSDALL corporation
Barnsdall corp. speeds liquidation of loans and funded debt. Nat Pet N 17:108+ Je 17 '25

BARNUM, P. T.
All he asked—mention my name. System 45: 58+ Ja '24

BAROQUE architecture. See Architecture, Baroque

BARRACKS
Proposed marine barracks at Quantico, Va. G. Brown. il plan Arch Rec 57:510-16 Je '25

BARRAGES
Lloyd barrage at Sukkur. Eng N 93:268 Ag 14 '24
Sarda canals irrigation barrage. D: Brownlie. il Can Eng 49:127 Jl 14 '25
Tidal power barrages in sand bottom estuaries. H: Davey. diags Engineer 137: 276 Mr 14 '24

BARRAGES—*Continued*
Vaal river barrage remarkable for its large gates. il Eng N 94:224 F 5 '25
See also Dams; Rivers—Regulation

BARREL washing machine
Cask-washing machines. il diags Engineering 117:367-8, 370, pl 26 Mr 21 '24

BARRELS
Barrel-stacking machine. il Ind Management (Lond) 10:280-1 N 15 '23
Safety in handling steel drums, barrels and cases. W. A. Craig and A. A. Smith. il Nat Pet N 17:84-5+ S 16 '25
Tongs handle barrels safely. il Nat Safety N 11:20 Je '25
Wood barrels and their uses in the petroleum industry. A. C. Hughes. Am Pet Inst Bul 4:143-4 D 31 '23

Cleaning
Domestic vacuum cleaner chief part of barrel cleaning process. W. K. Halbert. il Nat Pet N 15:22-4 N 14 '23

Manufacture
Electric space heaters used in making kegs. S. A. Frost. il Elec W 85:1028 My 16 '25
Steel heads for wooden kegs decrease cost of distribution. R. T. Mason. il Iron Tr R 76:1518-19 Je 4 '25

BARRELS, Steel
Boost economy move by buying standardized barrels. R. M. Hudson. Nat Pet N 17:76 Ap 1 '25
Things told which every jobber ought to know about steel barrels. G: A. Moore. Nat Pet N 17:71-2 Ap 1 '25

BARREN island
Lavas of Barren island and Narcondam. H: S. Washington. il Am J Sci 5th ser 7:441-56 Je '24

BARRETT, Mrs R. E.
Woman of vision builds a city. M. O. Peak. por il Nation's Business 12:26-7 S '24

BARRO Colorado Island research laboratory
Tropical research laboratory. il Nation's Health 6:489-90 Jl '24

BARRY, Lyman F.
Scouts who have made good in radio. A. Perry. por Wireless Age 11:25+ Jl '24

BARTLETT, Edwin Julius, 1851-
American contemporaries. L. B. Richardson. por Ind & Eng Chem 17:761 Jl '25

BARYTA paper. See Photographic paper

BASALT
L'industrie du basalte fondu. V. Neveux. il diags Génie Civil 87:57-60 Jl 18 '25
Radioactivity of basalts and other rocks. J. H. J. Poole. Philos Mag 6th ser 48:819-32 N '24
See also Tachylite

BASCULE bridges. See Bridges, Bascule

BASEBALL
Baseball! C. C. Griffith. il Nation's Business 12:18-20 Ag '24

Advertising
Baseball scores an assist for advertising. Ptr Ink 127:109-10 My 8 '24

BASEBOARDS
Baseboards that stay tight. W: V. Fitzgerald. diags Bldg Age 47:194+ Ap '25

BASEMENTS
Apartment building housing small stores and shops. plans Eng & Contr (Bldgs) 62:484-6 Ag 27 '24
Concrete pipe for foundation piling for a store building. diags plans Concrete 26:203-4 Je '25
Educating the basement to take a place in society. plans Gas Age 56:194, 195 Ag 8 '25
Making concrete basements dry. diags Concrete 26:59-61 F '25
Reclaiming the basement. B. J. Mullaney. plans Am Gas J 123:116+ Ag 8 '25
Treating basement walls to prevent seepage. Power Pl Eng 29:298 Mr 1 '25
Waterproof basements for power plants. Power Pl Eng 28:1161-2 N 15 '24
See also Cellars

Heating and ventilation
Basement heat and ventilation. C: L. Hubbard. il diags Dom Eng 107:20-4 Je 28 '24

BASES (chemistry)
5-Carboline and some derivatives. R. Robinson and S. Thornley. diag Chem Soc J 125: 2169-76 O '24
Strength of trimethylamine oxide and trimethyl alkoxyl ammonium hydroxides as bases; the structure of ammonium compounds. T. D. Stewart and S. Maeser. Am Chem Soc J 46:2583-90 N '24
System of acids, bases and salts. E: C. Franklin. Am Chem Soc J 46:2137-51 O '24

BASFORD, George M., 1865-1925
Sketch. por Ry Age 79:803-4 O 31 '25; Ry R 77:665-7 O 31 '25; Ry Mech Eng 99:677-8 N '25

BASILICAS
Reconstruction of the basilica of Constantine in the Roman forum. E. P. Franklin and V: L. S. Hafner. il plans Am Inst Arch J 12:74-80, 182-8, 322-6; Bibliography. 327 F, Ap, Jl '24

BASKERVILLE, Charles, 1870-1922
Sketch. E. F. Smith. Chem Soc J 123:3421-2 D '23

BASKET making
Weaving the new baskets. 64p Ladies' home journal, Philadelphia '24

BASQUES
Basque country. S: Chamberlain. il Am Arch 125:181-6 F 27 '24

BASSETT, Harry H.
We must improve it, is Bassett's motto. B. C. Forbes. Forbes 15:165-7+ N 1 '24

BAST fibers
Vegetable fibrous materials. J. Huebner. Soc Dyers & Col J 41:65-6 F '25; Same. Am Dyestuff Rep 14:185-6 Mr 23 '25
See also Flax; Hemp; Jute; Ramie

BATES road. See Roads, Experimental

BATH tubs
Cleaning
Bath tub: a problem in sanitation. K. Hirst and J. Broadhurst. Nation's Health 6:329-30 My '24

Manufacture
Falkirk uses new methods; how bath tubs, telegraph-pole bases and other castings are being made. H. C. Estep. il Foundry 52:333-6 My 1 '24
Recommendations for manufacturers; changes for built-in tub fittings suggested. Sanitary & Heat Eng 101:209 Ap 4 '24

BATHING beaches
Chlorinating bathing water. W. P. Baker and P. E. McNabb. il Can Eng 47:507-8 N 11 '24
Oil pollution at bathing beaches. 14p United States Public health service, Washington '25

Safety devices and measures
How localized bathing prevents drowning accidents. A. P. Saunders. il Nat Safety N 10:25-6 My '24

BATHOLITHS
Gold veins of sundry areas in the Idaho batholith. F. A. Thomson. il diags maps Eng & Min J 118:533-40 O 4 '24

BATHROOMS
Small space bathrooms. diags Bldg Age 47: 166 Mr '25

BATHS
Importance of daily bath told in film. il Nation's Health 7:428-9 Je '25

BATHS (chemical apparatus)
Constant-level water baths. H. J. Wing. diags Ind & Eng Chem 17:630 Je '25
Two forms of a constant water-level device. H. D. Wilde, jr. diags Ind & Eng Chem 16:904 S '24

BATHS, Public
Baltimore points way to cities planning public baths. il Nation's Health 7:696-8 O '25
L'établissement de bains publics de la ville de Strasbourg. il diags plans Génie Civil 83:609-12 D 22 '23
Heating water by electricity; a public baths and wash-house installation. J. Hope. Elec R (Lond) 96:837 My 22 '25
Public be—bathed. il Dom Eng 108:19-20 Ag 2 '24
See also Swimming pools

BATIK
Javanese batik designs from metal stamps. A. B. Lewis. 24 pl Field museum of natural history, Chicago '24
Obtaining batik effects. Am Dyestuff Rep 14:98 F 9 '25

BATISCAN, Quebec
Water supply
New water works system, Batiscan. R. Morrissette. plans Can Eng 46:425-7 Ap 15 '24

BATISTE
Sizing of linen fabrics and transparent batiste. A. Marshall. diag Am Dyestuff Rep 12:902-4 D 17 '23

BATON ROUGE, Louisiana
Rapid transit
Votes for franchise. Elec Ry J 62:831 N 10 '23

BATTERIES, Electric. See Electric batteries

BATTLESHIPS. See Warships

BAUDOT apparatus. See Telegraph, Printing

BAUDOUINS test
Observations on the Baudouins test. C. O. Gravenhorst. Ind & Eng Chem 16:47-8 Ja '24

BAUDRIMONT, E.
Baudrimont as colloid chemist. W. D. Bancroft. J Phys Chem 28:256-62 Mr '24

BAUER oil
Bauer oil, the high-boiling residue from molasses fusel oil; a source of capric acid. C. S. Marvel and F. D. Hager. Am Chem Soc J 46:726-31 Mr '24

BAUMÉ scale
Use of Baumé scale in molasses analysis. Chem & Met Eng 32:699 Ag '25

BAUXITE, Arkansas
Model government for an industrial town. T. Shiras. il Eng & Min J 116:895-8 N 24 '23

BAUXITE
Aluminum and aluminum alloys. R. J. Anderson. Brass W 21:15-17 Ja '25
Bauxite and aluminum. J. M. Hill. Eng & Min J 119:95 Ja 17 '25
Bauxite and aluminium. W. G. Rumbold. 110p [bibliog. p. 105-10] J. Murray, London '25
Bauxite and aluminous laterite occurrences of India. C. S. Fox. 287p Office of the geol. survey of India, Calcutta '23
Bauxite as a refining agent for petroleum distillation. A. E. Dunstan, F. B. Thole and F. G. P. Remfry. diag Soc Chem Ind J 43: 179-88 Je 13 '24
La bauxite comme agent de raffinage des produits distillés du pétrole. A. Guiselin. diag Chimie & Ind 12:423-40 S '24; Same. Inst Pet Tech J 10:918-46 D '24
Bauxite deposits in Greece. Eng & Min J 118: 693 N 1 '24
Bauxite deposits of British Guiana. L. T. Emory. il map Eng & Min J 119:686-9 Ap 25 '25
Bauxite deposits of Mississippi. P. F. Morse. 208p Mississippi Geol. survey, Jackson '23
Bauxite deposits of southeastern Alabama. R. E. Rettger. bibliog diags map Econ Geol 20:671-86 N '25
Bauxite in 1923. Iron Age 113:225 Ja 17 '24
Bauxite in 1924. Eng & Min J 119:768 My 9 '25
Bauxite in northeastern Mississippi. E. F. Burchard. diag maps U S Geol S Bul 750—G:101-48 '25
Diamond and bauxite mining active in British Guiana; gold production decreasing. L. T. Emory. il map Eng & Min J 120:524-8 O 3 '25
Distribution of kaolin and bauxite of the coastal plain of Georgia. R. T. Stull. il Am Cer Soc J 7:513-22 Jl '24
French production of bauxite. Eng & Min J 120:94 Jl 18 '25
Grade of bauxite. Eng & Min J 120:502 S 26 '25
Prospecting for bauxite in Dutch Guiana. L. T. Emory. il Eng & Min J 118:45-8 Jl 12 '24
Purification of bauxite. W. A. C. Newman. Chem Age (Lond) 10:sup42-3 Je 7 '24
South produces all of country's bauxite. Manuf Rec 87:70 Ap 23 '25
Technical use of bauxite in connexion with petroleum refining. A. M. O'Brien. Soc Chem Ind J 43:188-9 Je 13 '24

BAYER 205
Organic compounds of chemotherapeutic value; Bayer 205. B. Heymann. Chem Age 32: 367-70 S '24

BAYONNE, New Jersey
Water supply
New Jersey water supply problem. Review, by G. L. Hall. Am Water Works Assn J 13: 466-70 Ap '25

BEACHES
Beach erosion: its causes and cure. H. C. Ripley. plan Am Soc C E Pro 50:13-18 Ja '24; Same abr. Eng & Contr (W W) 61: 104-6 Ja 9 '24; Discussion. Am Soc C E Pro 50:529-42, 657-9 Ap-My '24
See also Bathing beaches

BEACONS
Sun valve acts in place of lighthouse keeper. il Marine R 53:473-4 D '23
See also Radio beacons

BEAM system. See Radio communication—Beam system

BEAMS. See Girders

BEARING currents. See Stray currents

BEARING metals
Anti-friction bearing metals. P. W. Priestley. il Automobile Eng 14:225-30 Ag '24
Bearing metal research. Mach 30:513 Mr '24
Crilly mercury bearing metal. il Mach 31:915 Jl '25
Durex, a bearing material which holds oil like a sponge. diags Automotive Ind 50:1072-4 My 15 '24
Effect of small quantities of nickel upon high-grade bearing metal. A. H. Mundey and C. C. Bissett. Engineering 116:347-9 S 14 '23; Same. Metal Ind 21:433-4 N '23; Same. Brass W 20:15-16 Ja '24
Lurgi- und kalzium-bleimetall für strassenbahn-gleitlager; abstract. Elektrotech Zeit 45:220 Mr 13 '24
Nickel in brass and white metal. W. M. Corse. Metal Ind 22:234-5 Je '24; Same. Brass W 20:397-8 N '24; Same cond. Foundry 52:487-8 Je 15 '24
Possible improvements in bearing service. G. A. Van Brunt. Ind Eng 82:267-8 Je '24
Rate of cooling determines hardness of alloy. L. Kaul. Automotive Ind 50:723 Mr 27 '24
Ternary-alloy bearing-metal. Soc Auto Eng J 15:393-4 N '24
Thermit, ein neues lagermetall. il Elektrotech Zeit 45:63-4 Ja 24 '24
See also Babbitt metal; Bearings

BEARINGS
Advanced practice in anti-friction bearings. P. B. Liebermann. Am Mach 60:533-4 Ap 10 '24
Advisability of using grooves in bearings. Power Pl Eng 27:1144-5 N 15 '23
Anti-friction bearings on highspeed newsprint machines. G. H. Spencer. il diags Paper Tr J 78:46-9 My 29 '24
Ball, roller and sleeve bearings. G. A. Van Brunt. il Ind Eng 83:56-9 F '25

BEARINGS—*Continued*
Bearings for conveyors, light truck and trolley wheels. diags Cassier's Ind Management 12:128+ Ja '25
Changes that have taken place in bearings. L. A. Hillman. diags Ind Eng 83:127-30 Mr '25
Critical bearing pressures. G. B. Upton. Mech Eng 47:941-2 N '25
Curing hot bearings. W. B. Gardiner. diags Am Mach 63:242 Ag 6 '25
Design and performance of complete cylindrical bearings from mathematical theory of lubrication. G. B. Upton. diags Sibley J 38:56-60+, 97-100 Mr-Ap '24
Engineering and design. 180p SKF industries, inc., New York '24
Fitting spindle bearings on the Heim centerless grinder. il Am Mach 62:245-7 F 5 '25
French engineers outline new development of Lasche's formula. Automotive Ind 50:139 Ja 17 '24
Graphical study of journal lubrication. H. A. S. Howarth. Mech Eng 46:77-9; Discussion. 79-80 F '24
High-pressure-bearing research; abstracts. L. Illmer. Am Mach 61:959-62 D 18 '24; Mech Eng 47:109-10; Discussion. 113-14 F '25
Lineshaft bearing. il Management & Adm 8: 532 N '24
Lubricants and lubrication. J. Duguid. Mech Eng 47:887-94 N '25
Lubrication of grooved bearings. T. E. Stanton. Iron Age 113:505 F 14 '24
Mechanism of lubrication; the effect of oiliness on the behavior of journal bearings. D. P. Barnard, H. M. Myers and H. O. Forrest. Ind & Eng Chem 16:347-50 Ap '24
Most efficient type of bearing for paper machinery. G: H. Spencer. il diags Tech Assn Pa ser 7:101-5 Je '24; Same. Paper Tr J 78:209+ Ap 10 '24
New bearing said to eliminate need for reaming or broaching. il diag Automotive Ind 51:247 Jl 31 '24
Oil-flow in complete journal bearings. D. P. Barnard, 4th. diags Soc Auto Eng J 17:205-9 Ag '25; Discussion. 17:459-60 N '25
Oil-ring design. H. A. Freeman. diags Mach 31:687-90 My '25
Pad system applied to large journal bearings. F. Johnstone-Taylor. diags Marine Eng 29: 476-8 Ag '24
Proper lubrication of modern industrial bearings. A. F. Brewer. il Ind Management 67: 177-83 Mr '24
Roll bearings for cold rolling mills. C. E. Davies. diags Engineering 118:569-71, 601, 636-7 O 24-N 7 '24; Discussion. 118:769 D 5 '24
Shaft whipping due to oil action in journal bearings. B. L. Newkirk and H. D. Taylor. il diags Gen Elec R 28:559-68 Ag '25; Abstract. Power 62:464 S 22 '25
Short-center belt drive. G. A. Frenkel. diags Mach 30:956-8 Ag '24
Sleeve bearings are too much underestimated. F. E. Boyd. Brass W 20:281 Ag '24
Some bearing investigations. E. G. Gilson. il diag Gen Elec R 27:318-27 My '24
Some types and applications of babbitt, ball and roller hanger bearings. F. E. Gooding. il Ind Eng 82:229-31+ My '24
Survey of armature, axle and journal bearing practice. il Elec Ry J 64:227-35, 725-9 Ag 16, O 25 '24
Why do motors overheat? J. B. Rathbun. Pet Age 13:62+ My 15 '24
Why not bushings? W. E. Irish. il Ind Management 67:200-3 Ap '24
See also Automobile engines—Bearings; Babbitt metal; Babbitting; Ball bearings; Cars—Bearings; Diesel engines—Bearings; Disk bearings; Electric motors—Bearings; Electric motors, Railway—Bearings; Gas and oil engines—Bearings; Lubrication and lubricants; Roller bearings; Thrust bearings; Turbines—Bearings

Manufacture
Casting railroad bearings. G. H. Clamer. il chart Foundry 53:791-4, 829-32, 886-90 O 1-N 1 '25
Connecting rod bearings. F. C. Hudson. Am Mach 62:607 Ap 16 '25
Grinding spindles and bearings. diags Automobile Eng 15:397-8 S '25
How some spherical bearing surfaces were machined. G: C. Smith. il diag Am Mach 60:26 Ja 3 '24
Schmelzofen zum ausgiessen von lagern. H. Kopp. il diag Elektrotech Zeit 45:1009-10 S 18 '24
Special tools facilitate machining of bearings. il diag Elec Ry J 64:834-7 N 15 '24
Tricks in casting babbitt bearings. J. V. Romig. diags Brass W 19:409-10 D '23

Testing
Investigation of the critical bearing pressures causing rupture in lubricating-oil films. L. N. Linsley. il diag Mech Eng 47:110-13 F '25; Abstracts. Automotive Ind 51: 1084-5 D 25 '24; Am Mach 61:962 D 18 '24; Discussion. Mech Eng 47:113-14 F '25
Ein versuchstand für grosse axialdrucklager. E. Feifel. il diags Zeit Ver Deutsch Ing 69: 679-83 My 16 '25

BEARINGS, Rubber
Cutless bearings for paper mills. C. F. Sherwood. Paper 34:565-7 Jl 17 '24
Rubber bearing takes the place of babbitt. il Sci Am 131:182 S '24
Rubber bearings. W. F. Schaphorst. Textile World 67:3723 Je 6 '25
Rubber bearings for centrifugal pumps. il Power Pl Eng 28:626-7 Je 1 '24

BEARINGS, Thrust. See Thrust bearings

BEARPAW mountains, Montana
Shallow folding and faulting around the Bearpaw mountains. F. Reeves. diags map Am J Sci 5th ser 10:187-200 S '25
Structure of the Bearpaw mountains, Montana. F. Reeves. il maps Am J Sci 5th ser 8: 296-311 O '24

BEATING process. See Paper making—Beating

BEAUFORT, North Carolina
Progress in the Beaufort (N.C.) section. Manuf Rec 88:93-4 Jl 9 '25

BEAUMONT, Texas
Beaumont, Texas, its rapid growth and bright future. M. Brown. il Manuf Rec 86:69-72 N 13 '24
City that was born again. M. Brown. il Am Ind 25:27-9 S '24
See also Electric plants (central stations) —Beaumont, Texas

BEAVER products company
When a changing market puts life into the dormant product. Ptr Ink 127:19 Ap 3 '24

BEAVER VALLEY, Pennsylvania

Rapid transit
$21,000 instead of $125,000; laying sheet asphalt over tracks and operating buses instead of trolleys. C. D. Smith. il Aera 13: 848-51 D '24

BEAVERS
When beavers aid irrigation. I. E. Houk. il Sci Am 130:161 Mr '24

BECK, Adam, 1857-1925
Sketch. por Can Eng 49:229-30 Ag 18 '25; Elec W 86:379-80 Ag 22 '25; Power 62:306 Ag 25 '25

BECK, Lewis C.
Pioneer in pure foods and drugs. L. F. Kebler. por Ind & Eng Chem 16:968-70 S '24

BECKET, Frederick M., 1875-
Perkin medalist for 1923. por Chem & Met Eng 30:44 Ja 14 '24; Ind & Eng Chem 16:196 F '24; Oil Paint & Drug Rep 105:19+ Ja 14 '24; Iron Age 113:219 Ja 17 '24

BECKMANN rearrangement. See Molecular rearrangements

BEDBUGS
Fighting the bed bug. J. H. Collins. il Sci Am 130:392+ Je '24

BEDBUGS—*Continued*
Terror of the night. W: A. Riley. il Nation's Health 7:617-18 S '25

BEDFORD, A. C., 1864-1925
Sketch and appreciation. por Nat Pet N 17: 21-4 S 23 '25

BEDROOMS
Napoleon's bedroom at Compiègne. C. H. Preston. il diags Arch Forum 43:113-18 Ag '25
Utilizing the personality of clients with particular reference to the decorative treatment of bedrooms. il Am Arch 127:25-30 Ja 14 '25

BEDS
Large uses of steel in small ways; camp cots. il Iron Tr R 77:690 S 17 '25
Large uses of steel in small ways; metal beds. il Iron Tr R 77:314 Ag 6 '25

Manufacture

Round table promotes efficiency in metal furniture shop. E. C. Barringer. il Iron Tr R 76:1637-41 Je 25 '25

BEECH-NUT packing company
Beech-nut—a trade-mark suit that touches manufacturers' pocketbooks. il Ptr Ink 127: 118-20+ My 15 '24
Beech-nut purchasing system controls all material and supplies. J. Gore. Management & Adm 9:235-40 Mr '25
Safety engineering in a model food plant. J. M. Thorsen. il Safety Eng 47:243-5 My '24

BEEF
Beef trust. Nat City Bank p 86-7 My '25
Postwar readjustments in beef and cattle production. Comm M 7:3-13 S '25; Same. Econ W n s 30:400-5 S 19 '25

Advertising

Beefsteak's chance. Ptr Ink 128:145-6 Jl 31 '24

BEER
Études sur les levures du lambic. H. Kufferath. bibliog diags Chimie & Ind 13:890-900 Je '25

See also Brewing

BEES
Growth and feeding of honeybee larvae. Sci Am 132:121+ F '25
Senses of bees. F. Frisch and L. Tirala. Sci Am 130:295+ Ap '24

BEESWAX
Bleaching of beeswax. Chemicals 23:11+ Je 15 '25
Wax is patternmaker's friend. W. C. Ewalt. diags Foundry 52:823-4 O 15 '24

BEET molasses. See Molasses

BEET sugar factories. See Sugar factories

BEETLES

See also Powder-post beetles

BEETS and beet sugar
Application of enzymes to beet sugar factory control. H. S. Paine and R. T. Balch. Ind & Eng Chem 17:240-6 Mr '25
Barium process of de-sugarizing beet molasses. H. W Dahlberg. flow sheet il Am Inst Chem Eng Trans v 16 pt 1:35-44 '24; Same. Chem & Met Eng 31:100-3 Jl 21 '24; Discussion. Am Inst Chem Eng Trans v 16 pt 1: 44-5 '24
Children working in the sugar beet fields of the North Platte Valley of Nebraska. S. A. Brown and R. O. Sargent. 106p National child labor committee, 215 Fourth ave., New York '24
Composition of sugar-beet pulp and tops and of silage therefrom. S. F. Sherwood. U S Agric Circ 319:1-12 '24
Determination of dry substance in beet sugar juices. R. J. Brown. Ind & Eng Chem 16: 746-8 Jl '24
Extraction of nitrogenous constituents from plant cells. W. E. Tottingham, E. R. Schulz and S. Lepkovsky. Am Chem Soc J 46:203-8 Ja '24
Filtration in the beet sugar industry. J. Maudru. il diags Am Inst Chem Eng Trans v 16 pt 1:1-15 '24; Same. Chem & Met Eng 31:111-15 Jl 21 '24; Discussion. Am Inst Chem Eng Trans v 16 pt 1:16-17 '24
Hot saccharate process of the beet sugar industry. R. W. Shafor. flow sheets diags Am Inst Chem Eng Trans v 16 pt 1:19-33 '24; Same cond. Chem & Met Eng 31:107-10 Jl 21 '24
Performance standards for beet sugar factories. H. W. Dahlberg. Ind & Eng Chem 16:92-3 Ja '24
Relation of the beet-sugar industry to American prosperity. T. G. Palmer. Manuf Rec 86:71-3 O 9 '24
Trials of sugar-beet lifters. il Engineering 120:486-7 O 16 '25
Wärmewirtschaft and kraftversorgung in der rübenzuckerindustrie. H. Kind. Zeit Ver Deutsch Ing 69:44-6 Ja 10 '25

By-products

Disposal of waste from beet sugar industry. E: Bartow. Am Inst Chem Eng Trans v 16 pt 1:47-53 '24; Same. Chem Age 32:373-5 S '24; Abstract. Chem Age (Lond) 13:146 Ag 8 '25
Lesson in waste recovery; possible recovery of potash from Steffen beet sugar plant waste water. W. J. Geldard and W. D. Chase. il diag Chem & Met Eng 32:195-7 F 2 '25
Possibilities of beet molasses. W. J. Geldard. diag Chem & Met Eng 30:394-7 Mr 10 '24
Summary of technical methods for the utilization of molasses; collated from patent literature. diags U S Bur Stand Circ 145:1-72 '24; Abstract. J Fr Inst 197:831-4 Je '24
True dry substance content of beet molasses. R. G. Gustavson and J. A. Pierce. Ind & Eng Chem 16:167-8 F '24

BEGGS, John I., 1847-1925
Sketch. por Elec Ry J 66:762-3 O 24 '25; Elec W 86:865 O 24 '25

BÉGUIN, Jean
Jean Béguin. E. J. Holmyard. Soc Chem Ind J (Chem & Ind) 43:655-9 Je 27 '24

BEHR, Arno
Presentation of portrait of Dr Arno Behr to the Chemists' club. Chem Age 32:262 Je '24

BEILBY, Sir George, 1850-1924
Sketch. por Engineering 118:202-3 Ag 8 '24; Gas J (Lond) 167:506-7 Ag 6 '24

BEIRA, Mozambique
Le port de Beira (Mozambique). L. Straus. Soc Ing Civils Bul 77:237-43, pl 67 Ap '24

BELGIUM

See also Bonds, Government—Belgium; Budget—Belgium; Coal miners—Belgium; Coal mines and mining—Belgium; Finance—Belgium; Labor and laboring classes—Belgium; Labor laws and legislation—Belgium; Metallurgical plants—Belgium; Money—Belgium; Railroads—Belgium; Roads—Belgium; Strikes and lockouts—Belgium; Wages—Belgium

Claims

See German indemnities—Belgian claims

Commerce

Belgium and world trade. World's Markets 14:17-18 F '24; Same cond. Dun's R 32:11 F 2 '24
Competitive factors in selling to Belgium and the Netherlands. S. H. Cross. U S Bur For & Dom Com Trade Information Bul 356: 1-12 '25

Economic conditions

Belgium, again in the workers' ranks. Baron de Cartier de Marchienne. Nation's Business 12:18-19 Je 5 '24
Belgium's ability to pay. Index p 5-6 S '25
Belgium's economic and financial progress in 1923. Baron de Cartier. Econ W n s 27:115-16 Ja 26 '24
Belgium's industrial future. J. P. Bagge. Elec R (Lond) 94:594 Ap 11 '24

BELGIUM—Economic conditions—*Continued*
Economic conditions in Belgium. Elec R (Lond) 96:596 Ap 10 '25
Economic recovery of Belgium since the war. Econ W n s 29:407 Mr 21 '25
Progress of Belgium. Economist 99:408-10 S 13 '24

Industries and resources

Belgian section. Published in monthly numbers of Dun's international review
Belgium's engineering trades. il Dun's Int R 43:69-70+ Ag '24

See also Automobile industry and trade—Belgium; Iron industry and trade—Belgium; Steel industry and trade—Belgium; Textile industry—Belgium; Wool trade—Belgium

Public works

Partie des travaux publics. Knapen. Soc Ing Civils Bul 76:1102-12 O '23

BELL telephone laboratories, inc.
Bell laboratories formed. Am Mach 62:220g Ja 29 '25; Am Inst E E J 44:191 F '25

BELLEFONTAINE, Ohio
Engineering rescued municipal utilities; Bellefontaine, Ohio, light and water plants. il Power 62:250-2 Ag 18 '25

BELLINI-Tosi system. See Direction finding apparatus

BELLS

See also Locomotive bells

Manufacture

Describes bell founding. W. Lambert and G: Hall. il Foundry 52:885-7, 924-6, 978-9 N 15-D 15 '24
Example of the ancient art of brass turning. M. Wright. il Am Mach 60:834 Je 5 '24

BELLS, Electric. See Electric bells

BELLS, Locomotive. See Locomotive bells

BELT guards
Easy method of building machine belt guards to fit conditions. diags Ind Eng 82:95 F '24

BELTING
Advantages of short center belt drives in industrial plants. il Ind Eng 82:549-50 N '24
American leather belting being improved by scientific research. G: A. Miller. il Dun's Int R 44:41-5 O '24
Applications of leather belting. R. F. Jones. il Textile World 68:2049+, 2797+ O 3, N 7 '25
Arc of contact. Power 61:338 Mr 3 '25
Automobile fan belts. India Rubber W 71:83 N '24
Belt and rope driving; the attendant pull on the shaft. W. R. Needham. diags Elec R (Lond) 97:169-70 Jl 31 '25
Belt joints that stay put. il Brick & Clay Rec 65:618+ O 28 '24
Belt kinks. il Textile World 64:3327 D 1 '23
Belting and pulleys. G. A. Van Brunt. il Ind Eng 83:59-60 F '25
Belting materials. G. A. Frenkel. Mach 31: 14-16 S '24
Belts and belt dressing. Power Pl Eng 28: 603, 718 Je 1, Jl 1 '24
Best speed for a belt. W. F. Schaphorst. chart Power Pl Eng 27:1134-5 N 15 '23
Control of mechanical power transmission. W: Staniar. il diags Ind Management 70: 135-40, 218-22, 272-6 S-N '25
Elimination of waste in belting and transmission equipment. W. E. Nicholls. Am Mach 63:762 N 12 '25
Grain side of the leather belt. L: W. Arny. Mach 30:372-3 Ja '24
Increasing arc of contact with low belt tension. F. E. Gooding. il diags Ind Eng 82: 417-22+ S '24
Installation and care of belting. C. O. Streeter. Paper 34:90-1 My 8 '24
Installation and care of drive belts. H. L. Wheeler. diags Inland Ptr 73:606 Jl '24
International trade in machinery belting. E. G. Holt. U S Bur For & Dom Com Trade Promotion Ser 22:1-74 '25
Joints of endless belts. G. A. Frenkel. diags Mach 31:216 N '24
Lace leather cutter. G. G. McVicker. diag Power 61:464 Mr 24 '25
Laying out short-center belt drives using idlers. R. W. Drake. il diags Ind Eng 83: 166-72+ Ap '25
Maintenance; gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 33:790-4+ D '24
Making leather belts endless. L: W. Arny. il Paper Tr J 79:43-7 S 4 '24
More about lacing belts. M. W. Edgar. Am Mach 59:834 D 6 '23
New belt drive. W: F. Schaphorst. il diags Paper Tr J 79:51-3 Ag 7 '24
Peculiar belting problem and its solution. W: Staniar. diags Power 61:424 Mr 17 '25
Performance data on belting. W. W. Nichols. diag Management & Adm 10:259-60 N '25
Power transmission by belting. J. E. Rhoads. Paper 33:11-12 Mr 13 '24
Quarter turn rubber belt. N. G. Near. diag Power Pl Eng 28:338 Mr 15 '24
Reznor belt shifter. il Am Mach 63:678 O 22 '25
Short center belt drive. V. Sahmel. Paper 33: 146+ Ap 17 '24; Same, with il. Paper Tr J 78:61-4 My 8 '24
Short-center belt drives. G. A. Frenkel. il charts diags Mach 30:747-53, 876-82, 956-8 Je-Ag '24
Static electricity on belt caused by contact of surfaces. Power Pl Eng 29:606-7 Je 1 '25
Suction belting, known as Tentacular. il Iron Age 114:1601 D 18 '24
Things to remember when you buy belts. E. H. Cole. il Brick & Clay Rec 65:326-7 S 2 '24
Transmission by belting and shafting. G. A. Ungar. Power 60:1036 D 23 '24
United States exports of leather belting increase. Power 61:969 Je 16 '25
Use and abuse of belts. W. H. Wakeman. Power 58:858-9 N 27 '23
Visual comparison of belt slip. V. Sahmel. il diag Iron Age 115:481-2 F 12 '25; Same. Chem & Met Eng 32:331 F 23 '25; Same abr. Power 62:517-18 O 6 '25; Same cond. Blast F & Steel Pl 13:94 F '25; Same. Textile World 67:3147 My 9 '25
Waterproof belts. W. F. Schaphorst. Textile World 65:3841 Je 7 '24
What do you know about rubber belts. A. M. Oliver. il Brick & Clay Rec 65:394-5+ S 16 '24

See also Power transmission; Pulleys; Shafting

Advertising

How much attention must industrial advertisers give the jobber? R. Perry. Ptr Ink M 10:43-4 My '25
Tonic for an unresponsive market. R. Perry. Ptr Ink M 9:68+ Jl '24

Specifications

United States government specification for leather belting. U S Bur Stand Circ 148:1-9 '23

Standards

Belting standardization at the du Pont plants. W: Staniar. Am Mach 60:977-8 Je 26 '24
Progress report of special committee on the standardization of belting. Am Pet Inst Bul 6:5-7 S 4 '25
Report of Belt standardization committee. Am Pet Inst Bul 4:109-11 D 31 '23
S.A.E. agricultural power equipment division report; tractor leather driving belts. Soc Auto Eng J 14:631-3 Je '24

Tables, calculations, etc.

Belt power transmission formulas. W. F. Schaphorst. Iron Age 113:438 F 7 '24

BELTING—Tables, calculations, etc.—*Continued*
Discussion of belt creep and its effect on the application of the fundamental belting formula. R. F. Jones. Sibley J 38:173-5+ O '24; Same. Textile World 67:3143+ My 9 '25
Horsepower rating table for leather belting. Mach 31:870a Jl '25
How service conditions affect belt capacity. R. F. Jones. il Ind Eng 83:265-70+ Je '25
Importance of belt thickness in computations. W. F. Schaphorst. diag Power Pl Eng 29: 483 My 1 '25
Laying out short-center belt drives using idlers. R. W. Drake. il diags Ind Eng 83: 166-72+ Ap '25
Money saved by reducing belt slip. W. F. Schaphorst. chart Eng & Min J 117:172 Ja 26 '24; Same. Power Pl Eng 28:444 Ap 15 '24; Same. Textile World 65:2539 Ap 12 '24
Practical workings of belts and pulleys. W. F. Schaphorst. Brass W 20:59-60 F '24
Pulling power of slack belts. W. F. Schaphorst. Power Pl Eng 27:1204 D 1 '23
Rubber belting. G. A. Frenkel. Mach 31:122-4 O '24
Slip and power loss. W. F. Schaphorst. diags Textile World 67:1517+ F 28 '25

Testing

Determining the quality of leather belts. L: W. Arny. il Ind Eng 83:479-84+ O '25; Same cond. Power 62:506 S 29 '25; Same cond. Mach 32:95-6 O '25; Same cond. Power Pl Eng 29:1010-12 O 1 '25
Simple fixture for testing belting. il Am Mach 60:722 My 15 '24
Slip, friction and stretch tests for leather belting. L. C. Morrow. il Am Mach 60:469-71 Mr 27 '24
Tests of leather belting. R. F. Jones. il Paper 35:149-54 F 12 '25; Same cond. Iron Age 115:708-10 Mr 5 '25

BELTING, Steel
Steel belt drives for mills. Textile World 67: 2351+ Ap 4 '25

BENCHES
Patternmaker utilizes bench. W. C. Ewalt. il diags Foundry 53:80-3 Ja 15 '25

BENCHMARKS
Precise leveling in New England; descriptions and elevations of permanent bench marks. E. B. Roberts. Boston Soc C E J 11:299-313 S '24
Stability of geodetic benchmarks in United States. W: Bowie. Eng N 92:762 My 1 '24

BENDING
Allowances for 90-degree bends in sheet metals; data sheets. L. P. Vance. Mach 32: 190a N '25
Bending flanged collars on a bulldozer. C. B. Clark. diag Am Mach 60:222 F 7 '24
Bending hard steel bars. E. E. Hughes. Iron Age 115:756 Mr 12 '25; Same. Eng & Contr (Bldgs) 63:1371 Je 24 '25
Bending heavy steel reinforcing into semicircular form. il Eng N 95:276-7 Ag 13 '25
Bending iron castings. D. A. Hampson. Am Mach 61:354 Ag 28 '24
Bending steel structural members. C. C. Hermann. il diags Mach 31:883-5 Jl '25
Bending stresses in thin-walled tubes. J: Case. Philos Mag 6th ser 47:197-208 Ja '24
Forming truck equalizer bars in bulldozer. J. R. Rogers. il Elec Ry J 66:408 S 12 '25
Machine forging and bending dies. C. C. Hermann. diags Mach 31:719-22 My '25
Set of tools for bending tubes. C. B. Clark. diags Am Mach 60:518-19 Ap 3 '24; Discussion. 60:941; 61:351 Je 19, Ag 28 '24
Simple bending device for trolley poles. il Elec Ry J 66:25 Jl 4 '25

See also Pipe bending

BENDING machines
Bartlett Hayward plate bending machine. il diag Am Mach 62:516-17 Mr 26 '25
Bonn tube bending machine. il Engineer 136: 514 N 9 '23
Hilles & Jones plate-bending machine. il Am Mach 62:751 My 7 '25; Ry Mech Eng 99:378-9 Je '25
Large plate-bending rolls. il diag Engineer 138:168-9 Ag 8 '24
Machine which curves plates completely to the edge made by the Consolidated machine tool corporation. il Iron Age 115:1261 Ap 30 '25
Pels hand shearing and bending machines for concrete-reinforcing bars. il Engineering 120:355 S 18 '25
Tests properties of strip metal. L. Aitchison and L. W. Johnson. il diags plans Iron Tr R 74:1361-4 My 22 '24
Tube bending fixtures. C: O. Herb. il Mach 32:99-101 O '25
Wallace bending machines. il Mach 31:67-8 S '24; Metal Ind 22:373 S '24; Am Mach 61:287 Ag 14 '24; Ry Mech Eng 98:705 N '24
Wallace ring-bending fixture. il Mach 30:733-4 My '24; Iron Age 113:1144 Ap 17 '24

See also Pipe bending

BENDING moment
Apparent value of Poisson's ratio for beams of varying cross-section. H. W. Baker. diags Philos Mag 6th ser 48:1080-4 D '24
Bending-moment envelopes in continuous beams. G. P. Manning. Engineering 119:731 Je 12 '25
Study of bending moments in columns. F. E. Richart. Am Concrete Inst Pro 20:495-517; Discussion. 518-22 '24

BENEFIT societies
Benefit insurance. J. W. Zeller. Spectator 112: 35 Ja 31 '24
Benefits of the Illinois traction system hospital association are extended. Elec Ry J 63:623 Ap 19 '24
Can sick-benefit associations profitably engage in disease prevention work? L. R. Thompson and D. K. Brundage. J Ind Hygiene 5:305-13 D '23
Creating an incentive to health. H. A. Ley. Ind Management 68:250-3 O '24
Experience with mutual benefit associations in the United States. 155p National ind. conference bd., New York '23
Helping employees to help themselves to health. H. A. Ley. Forbes 14:616-18 Ag 15 '24
How we secure the employee's interest in his health. F. T. Ley. System 46:328-9+ S '24
Lapses, death losses and membership in assessment societies. Spectator 113:17 O 9 '24
Life insurance business of American fraternal societies and assessment associations in 1923. Econ W n s 27:926 Je 28 '24
Life insurance operations of American fraternal societies and assessment associations in 1924. Econ W n s 29:710-11 My 16 '25
Manual for mutual benefit associations. 48p National ind. conference board, New York '24
Mutual benefit associations; research reports. Review by J. H. Woodward. Am Management R 13:29-32 Ag '24
One way to industrial peace. il Min Cong J 10:243-4 Je '24
Operations of workmen's sick and death benefit fund of the United States of America, 1923. Monthly Labor R 18:1130-3 My '24
Practical solution of an industrial problem. H. A. Ley. Safety Eng 50:26-9 Jl '25
Record of fraternal orders. Spectator 113:4+ N 6 '24; 115:4+ O 22 '25
Unusual and effective employee benefit plan. R. N. Phelps. Factory 32:332-3+ Mr '24

See also Industrial mutual association of Flint; Maccabees

BENGALINE
Bengaline constructions and defects. J. Chittick. Textile World 67:3295+ My 16 '25

BENJAMIN FRANKLIN institute
Benjamin Franklin institute merged with Columbia university. Bankers M 109:837-40 O 31 '24

BENSUSAN, Arthur J.
Mining engineers of note. por Eng & Min J 120:4 Jl 4 '25

BENTONITE

Bentonite. J. Alexander. Ind & Eng Chem 16: 1140-2 N '24; Abstract. Paper 35:100 N 6 '24

Bentonite deposits in western Canada. Chem Age 11:sup16 Ag 16 '24

Bentonite for pitch trouble. S. D. Wells. Paper Tr J 79:47-8 O 16 '24; Same. Paper 35: 56-7 O 30 '24

Bentonite helps solve problem in grinding asphalt. H. S. Spence. Chem & Met Eng 30:986 Je 23 '24

Bentonite—occurrences, properties and uses; abstracts. H. S. Spence. Can Chem & Met 9:39-42 F '25; Inst Pet Tech J 10:707-9 S '24; Chem & Met Eng 32:59 Ja 12 '25; Eng & Min J 119:29-30 Ja 3 '25

Sedimentation of bentonite. H. F. Coward. Chem Soc J 125:1470-4 Jl '24

Study of plasticity by practical potter's methods. P. E. Cox. Am Cer Soc J 7:151-3 Mr '24

BENZAL aniline

Reaction between benzal-aniline and carbon disulfide at high temperature and pressure. L. A. Bigelow. Am Chem Soc J 47:193-8 Ja '25

BENZALDEHYDE

Electrochemical oxidation of toluene to benzaldehyde. C: A. Mann and P. M. Paulson. bibliog Am Electrochem Soc Trans v 47 (preprint 3):31-42 Ap '25

Electrolytic introduction of alkyl groups. J. M. Nelson and A. M. Collins. diag Am Chem Soc J 46:2256-67 O '24

Equilibrium between benzaldehyde and benzoin. A. Lachman. Am Chem Soc J 46:708-23 Mr '24

Platinum oxide as a catalyst in the reduction of organic compounds; a study of the effects of numerous substances on the platinum catalysis of the reduction of benzaldehyde. W. H. Carothers and R. Adams. Am Chem Soc J 47:1047-63 Ap '25

Reaction between metallic sodium and aromatic aldehydes, ketones and esters; aldehydes. F. F. Blicke. Am Chem Soc J 46: 2560-71 N '24

See also Hydroxybenzaldehyde; Nitrobenzaldehydes

BENZALDEHYDEPHENYLHYDRAZONE

Compounds formed by the action of bromine upon benzaldehydephenylhydrazone. F: D. Chattaway and A. J: Walker. Chem Soc J 127:975-84 My '25

BENZALPYRUVIC acid

Study of benzalpyruvic acid and its esters; the action of sunlight on crystalline methyl benzalpyruvate. M. Reimer. Am Chem Soc J 46:783-90 Mr '24

BENZARSINIC acid

Organic compounds of arsenic; derivatives of o-benzarsinic acid. J: A. Aeschlimann and N. P. McCleland. Chem Soc J 125:2025-35 O '24

BENZAURIN

Absorption spectra of benzaurin. W. R. Orndorff, R. C. Gibbs and S. A. McNulty. Am Chem Soc J 47:2767-77 N '25

BENZENBERG, George H., 1847-1925

Sketch. por Eng N 94:995 Je 11 '25

BENZENE

Abnormal benzene derivatives. N. V. Sidgwick and R. K. Callow. Chem Soc J 125:527-38 Mr '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:172 F 15 '24

Action of benzol wash oils on lead. A. Schneider and E. Jenniger. Am Gas J 120:51-2 Ja 19 '24

Benzene in its relation to the azo dyestuffs. W. B. Nelson. Am Dyestuff Rep 13:392-6+ Je 16 '24

Benzol content of gas; its determination by means of activated charcoal. A. Schmolke. Am Gas J 121:843-5 S 13 '24

Benzole research. Gas J (Lond) 170:363-5 My 6 '25

Catalytic condensation of acetylene with benzene and its homologs. J. S. Reichert and J. A. Nieuwland. Am Chem Soc J 45:3090-1 D '23

Centenary of Faraday's discovery of benzene. Chem Age (Lond) 12:602-4 Je 20 '25; Gas J (Lond) 170:1021 Je 24 '25

Chemical and material markets in 1923. Chem & Met Eng 30:116 Ja 21 '24

Cryoscopic measurements with benzene. E: R: Jones and C: R. Bury. Chem Soc J 127: 1947-51 S '25

Detection of constant-boiling mixtures; hydrochloric acid-water and methyl alcohol-benzene. T. R. Briggs. J Phys Chem 28: 644-50 Je '24

Direct mercuration of benzene and the preparation of mercury diphenyl. J. L: Maynard. Am Chem Soc J 46:1510-12 Je '24

Distillation et rectification; mélange de benzène, toluène et métaxylène. L. Gay. Chimie & Ind 10:811-28, 1026-42 N-D '23

Emission band spectra of aromatic compounds; their origin. J. K. Marsh. Philos Mag 6th ser 49:1206-16 Je '25

Faraday and the benzene centenary. Engineering 119:770 Je 19 '25

Faraday as a chemist. W: J. Pope. Chem Age (Lond) 12:606-7 Je 20 '25

Hundred years of benzene. Chem Age (Lond) 12:574-5 Je 13 '25

Hydrogenation of benzene in the presence of metallic copper. R. N. Pease and R. B. Purdum. diag Am Chem Soc J 47:1435-42 My '25

Influence of intensive drying on inner equilibria. A. Smits. diag Chem Soc J 125:1068-75 My '24

Irregularities in the specific heats of certain organic liquids. J: W. Williams and F. Daniels. Am Chem Soc J 46:1569-77 Jl '24

Latent heats of fusion; palmitic acid and benzene. K. Stratton and J. R. Partington. Philos Mag 6th ser 48:1085-9 D '24

Molecular condition of phenol in benzene solution. J. C. Philip and C. H. D. Clark. Chem Soc J 127:1274-7 Je '25

Monomolecular films between liquids; butyric acid between water and hexane, and acetic acid between water and benzene. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:1610-13 Je '25

Monomolecular films on water; the oriented adsorption of derivatives of benzene. W: D. Harkins and E. H. Grafton. Am Chem Soc J 47:1329-35 My '25

Naphthalene and the centroid structure. R. C. Fuson. Am Chem Soc J 46:2779-88 D '24

Nomenclature of benzene and its fraction. P. E. Speilmann. Soc Chem Ind J (Chem & Ind) 44:56 Ja 16 '25

Properties of neighbouring hydroxy-groups attached to a benzene nucleus. R. L. Alimchandani. Chem Soc J 125:539-43 Mr '24

Solubility of benzoic acid in benzene and in toluene. J: Chipman. Am Chem Soc J 46: 2445-8 N '24

Some factors influencing substitution in the benzene ring. A. F. Holleman. Chem R 1:187-229; Bibliography. 229-30 Jl '24

Space formulæ of benzene, naphthalene, and anthracene. B. Orelkin. Chem Soc J 124 pt 1:1082-3 N '23

Specific heats and latent heats of fusion of ice and of several organic compounds. O. Maass and L. J. Waldbauer. Am Chem Soc J 47:1-9 Ja '25

Studies on the directive influence of substituents in the benzene ring; a chemical method for estimating the meta isomer in some disubstituted derivatives of benzene. A. W. Francis and A. J. Hill. Am Chem Soc J 46: 2498-2505 N '24

Substitution in vicinal trisubstituted benzene derivatives. W: Davies and L. Rubenstein. Chem Soc J 123:2839-52 N '23

Sulfonation of benzene. A. W. Harvey and G. Stegeman. diags Ind & Eng Chem 16: 842-5 Ag '24

BENZENE—*Continued*
Survey of the benzol industry. Chem Age (Lond) 12:32 Ja 10 '25
Toxicity of industrial solvents. E. Kohn-Abrest. Chem Age 32:199-201 Ap '24
X-ray diffraction patterns from crystalline and liquid benzene. E. D. Eastman. Am Chem Soc J 46:917-23 Ap '24
See also Benzol (commercial benzene)

Analysis
Estimation of sulphur in volatile hydrocarbons, with particular reference to benzol, by an improved lamp method. E. L. Lomax and A. M. E. Bevan. diag Inst Pet Tech J 10:914-17 D '24
Zur benzolbestimmung mit aktiver kohle. A. Otten. diags Stahl & Eisen 43:1408-9 N 8 '23

Manufacture
Activated carbon. V. F. Gloag. Gas J (Lond) 165:708 Mr 19 '24
Activated carbon and silica gel. E. Urbain. Gas J (Lond) 167:449-51 Jl 30 '24; Summary. Chem Age (Lond) 11:161-2 Ag 16 '24
Activated carbon for recovering benzene from gas. M. Steding. diags Am Gas J 121: 611-12+ Jl 5 '24
Comparison of solid adsorbents proposed for benzole recovery. W. H. Hoffert. Gas J (Lond) 171:227; Discussion. 227-8 Jl 22 '25
Le débenzolage du gaz; abstract. A. Mailhe. Chimie & Ind 11:493-5 Mr '24
Debenzoiage et utilisation des chaleurs perdues des fumées. O. Guillet. diag Génie Civil 85:42-3 Jl 12 '24; Abstract. Gas J (Lond) 167:749 S 3 '24
Early chapter in the benzol industry. W. Irwin. Soc Chem Ind J 44:92-4 F 27 '25
Essais de préparation de benzène synthétique par condensation de l'acétylène sous l'influence de la chaleur. A. Kovache and E. Tricot. diags Chimie & Ind 13:361-72, 537-47 Mr-Ap '25
Experiments on extraction of benzene from coal gas. A. C. Blackall. Gas Age 54:794 D 6 '24
Les procédés actuels de débenzolage du gaz. C: Dantin. diags Génie Civil 85:472-5 N 22 '24
Recovering the sludge acid in benzol refining. H. Schlamp. Chem & Met Eng 30:188 F 4 '24
Second report of the joint benzole research committee. Gas J (Lond) 170:654-5 Je 3 '25
Silica gel as an industrial adsorbent. E. C. Williams. il diags Soc Chem Ind J 43:97-112 Ap 18 '24; Abstracts. Chem Age (Lond) 10: 261-3 Mr 15 '24; Engineering 117:622-3 My 9 '24; Gas J (Lond) 165:708-11 Mr 19 '24; Discussion. Chem Age (Lond) 10:264 Mr 15 '24
Solid absorbents for benzol recovery. R. Furness. Soc Chem Ind J (Chem & Ind) 42:1164 N 30 '23
Waste heat and benzole recovery. diag Gas J (Lond) 168:711 D 10 '24; Am Gas J 122:165 F 21 '25

BENZENE poisoning
Benzol hazards in industrial operations. Oil Paint & Drug Rep 108:22 N 9 '25
Committee makes report on benzol poisoning. Nat Safety N 10:33-4 D '24
Report on benzol poisoning by committee appointed by National safety council. Monthly Labor R 18:1120-5 My '24; Excerpts. India Rubber W 69:161 D '23

Bibliography
Bibliography of benzol. Nat. safety council. Proceedings, 1923, p 213-19 '24

BENZENEMONOSULFONIC acid
Arylamine salts of some sulphonic acids of the benzene series. C. M. Keyworth. Soc Chem Ind J 43:341-2 N 28 '24

BENZENESULFONYL chloride
Action of acid chlorides upon trimethylamine. L. W. Jones and H. F. Whalen. Am Chem Soc J 47:1343-52 My '25

BENZENOID hydrocarbons. See Hydrocarbons

BENZIDINE
Preparation of suitable intermediate for benzidine. Color Tr J 16:60 F '25

BENZIL
Benzil rearrangement. A. Lachman. Am Chem Soc J 46:779-82 Mr '24

BENZILDIOXIME
Isomerism of the oximes; the alleged fourth benzildioxime. O. L. Brady and F: P. Dunn. Chem Soc J 125:291-6 Ja '24
See also Hydroxybenzils

BENZINE
Clarification of benzine in dry cleaning. diag Color Tr J 16:27-8 Ja '25
Importance of benzine soap to the dry cleaning and garment dyeing industries. J. M. Matthews. Color Tr J 15:79-82 S '24
Solvents for use in the cleaning of dyed garments. J. M. Matthews. Color Tr J 16:17-20 Ja '25
Some notes on benzine soaps. R. G. Thomson. Soc Dyers & Col J 40:45-7 F '24

BENZO-BIS-SELENAZOLES
Researches on selenium organic compounds; the synthesis of benzo-bis-selenazoles and selenazolo-benzothiazoles, new heterocyclic systems. M. T. Bogert and H. H. Hopkins. Am Chem Soc J 46:1912-17 Ag '24

BENZOIC acid
Condensation of benzoic acid and substituted benzoic acids with resacetophenone. G. C. Chakravarti. Am Chem Soc J 46:682-5 Mr '24
Ortho-benzoyl-benzoic acids containing fluorine, iodine and sulfur. F: C. Hahn and E. E. Reid. Am Chem Soc J 46:1645-53 Jl '24
Soda benzoate as a food preservative. M. Briscoe. Chem Age (Lond) 10:160 F 16 '24
Solubility of benzoic acid in benzene and in toluene. J: Chipman. Am Chem Soc J 46: 2445-8 N '24
Some substituted ortho-benzoyl-benzoic acids and the corresponding anthraquinones. O. R. Quayle and E. E. Reid. Am Chem Soc J 47:2357-61 S '25
2,4-dihydroxybenzoyl-ortho-benzoic acid and some of its derivatives. W. R. Orndorff and E. Kline. Am Chem Soc J 46:2276-91 O '24

BENZOIC anhydrides
Influence of substituents on chemical and physical properties: the velocity of reaction between substituted benzoic anhydrides and an aliphatic alcohol. H. G. Rule and T: R. Paterson. Chem Soc J 125:2155-63 O '24

BENZOIN
Equilibrium between benzaldehyde and benzoin. A. Lachman. Am Chem Soc J 46:708-23 Mr '24
Migration of groups in derivatives of benzoin and desylamine. A. McKenzie and R. Roger. Chem Soc J 125:844-54 Ap '24
Semicarbazones of benzoin. I. V. Hopper. Chem Soc J 127:1282-8 Je '25

BENZOL (commercial benzene)
Benzol-gasoline mixture for motor fuel. Bus Transportation 4:567 N '25
Benzol produced from acetylene. Automotive Ind 50:123 Ja 17 '24
La commission de carbonisation et la carbonisation obligatoire. Génie Civil 83:453-6 N 10 '23
Comparison of solid adsorbents proposed for benzol recovery. W. H. Hoffert. diag Soc Chem Ind J 44:357-66 Jl 17 '25; Abstract and discussion. Gas J (Lond) 117:227-8 Jl 22 '25
Le débenzolage du gaz. A. Grebel. il diag Génie Civil 87:37-43, 53-7 Jl 11-18 '25
Properties of benzol. Automotive Ind 51:820, 934-6 N 6, 27 '24
See also Benzene

BENZOPHENONE
Variation with pressure of the boiling points of napthalene, benzophenone and anthracene. J. L. Finck and R. M. Wilhelm. Am Chem Soc J 47:1577-82 Je '25

BENZOPHENONE oxime
Beckmann rearrangement. A. Lachman. Am Chem Soc J 46:1477-83; 47:260-5 Je '24, Ja '25

BENZOPYRYLIUM
Some benzopyrylium salts. L. R. Ridgway and R. Robinson. Chem Soc J 125:214-22 Ja '24

Some derivatives of benzopyrylium. R. Robinson and others. Chem Soc J 125:207-14 Ja '24

Styrylbenzopyrylium salts; the γ-styryl derivatives of 7-hydroxy-2-phenyl-4-methylbenzopyrylium chloride. J. S. Buck and I. M. Heilbron. Chem Soc J 123:2521-31 O '23

BENZOQUINONE
Reduction potentials of quinones; the potentials of certain derivatives of benzoquinone, naphthoquinone and anthraquinone. J. B. Conant and L: F. Fieser. diag Am Chem Soc J 46:1858-81 Ag '24

BENZOTHIAZOLE
Aminobenzthiazoles; 1-anilino-benzthiazole and its tolyl homologues. R. F. Hunter. Chem Soc J 127:2023-8 S '25

Researches on thiazoles; the synthesis of benzothiazoles from ortho-nitrochlorobenzene. M. T. Bogert and F. D. Snell. Am Chem Soc J 46:1308-11 My '24

Studies in the benzothiazole series. L. M. Clark. Chem Soc J 127:973-5 My '25

BENZOYL
Role of weight of acyl in the migration from nitrogen to oxygen. L. C: Raiford and J: R. Couture. Am Chem Soc J 46:2305-18 O '24

BENZOYL-benzoic acids. See Benzoic acid

BENZOYL chloride
Chlorination of benzoyl chloride. E: Hope and G: C. Riley. Chem Soc J 121:2510-27; 123: 2470-80 N '22, O '23

BENZOYLACRYLIC acid
Isomeric esters of para-ethoxy-benzoylacrylic acid. G. P. Rice. Am Chem Soc J 46:2319-26 O '24

Isomeric esters of para-methoxy-benzoylacrylic acid. G. P. Rice. Am Chem Soc J 46:214-22 Ja '24

Researches on unsaturated ketonic acids; some experiments with beta-benzoylacrylic acid and related compounds. M. T. Bogert and J: J. Ritter. Am Chem Soc J 47:526-35 F '25

Researches on unsaturated ketonic acids; the constitution of the so-called Pechmann dyes and the mechanism of their formation from beta-benzoylacrylic acid. M. T. Bogert and J: J. Ritter. Am Chem Soc J 46:2871-9 D '24

BENZOYLAMINO methylanthraquinone
Preparation and properties of 1-benzoylamino-2-methylanthraquinone. W. H. Beisler and J. L. Bray. Am Chem Soc J 47:2371-3 S '25

BENZOYLHYDROPEROXIDE
Benzoylhydroperoxide: preparation and application to organic synthesis. H. Hibbert and C. P. Burt. Am Chem Soc J 47:2240-3 Ag '25

BENZOYLNAPHTHALENECARBOXYLIC acid
Derivatives of 1:8-naphthalic acid; the preparation and properties of 1-benzoylnaphthalene-8-carboxylic acid and its derivatives. F: A. Mason. Chem Soc J 125:2119-23 O '24

BENZYL alcohol
Action of aromatic alcohols on aromatic compounds in the presence of aluminum chloride; condensation of benzyl alcohol and phenol. R. C. Huston. Am Chem Soc J 46: 2775-9 D '24

BENZYL carbinol. See Phenylethyl alcohol

BENZYL chloride
Reactions at the interface of two immiscible liquids and the part played by the vapour of each; the reaction between water and benzyl chloride. G: Harker. diag Chem Soc J 125:500-11 Mr '24

BENZYL dihydroisoquinolines
Oxidation of substituted 1-benzyl-3:4-dihydro-*iso*quinolines and a synthesis of papaveraldine. J. S. Buck, R. D. Haworth and W: H: Perkin, jr. Chem Soc J 125:2176-85 O '24

BENZYL esters
Some new substituted benzyl esters. C: Barkenbus and J: B. Holtzclaw. Am Chem Soc J 47:2189-92 Ag '25

BENZYL pseudothiourea compounds
Benzylpseudothiourea salts of naphthalenesulfonic acids. R. F. Chambers and P. C. Scherer. Ind & Eng Chem 16:1272-3 D '24

BENZYL resorcinol
Benzyl resorcinol. H. Hirzel. Soc Dyers & Col J 41:139 Ap '25

BENZYLAMINE
Nature of the alternating effect in carbon chains; a comparative study of the directive efficiencies of oxygen and nitrogen atoms in aromatic substitution. E. L. Holmes and C. K. Ingold. Chem Soc J 127: 1800-21 Ag '25

BENZYLANILINE
Benzylaniline manufacture. Chemicals 24:7 Jl 6 '25

Note on the production of benzylaniline. T. J. Nolan and H. W. Clapham. Soc Chem Ind J 44:220-1 My 8 '25

BENZYLATION
Velocity of benzylation of certain amines. D: H: Peacock. Chem Soc J 125:1975-80 O '24

BENZLIDENE camphor
Studies of valency; absorption spectra of camphor, benzylidenecamphor, and camphorquinone—optical evidence of two types of conjugation. T: M. Lowry and H. S. French. Chem Soc J 125:1921-7 S '24

BENZYLIDENE chloride
Synthesis of cyclic polysulphides; condensation of dithioethylene glycol with benzylidene chloride. P. C. Ray. Chem Soc J 125: 1141-4 My '24

BEQUESTS. See Legacies

BERBERINE
Berberine from the Mahonia group of plants. Textile Col 47:111 F '25

ψ-berberine. R. D. Haworth, W: H: Perkin, jr. and J: Rankin. Chem Soc J 125:1686-1701 Ag '24

Synthesis of oxyberberine. W: H: Perkin, jr., J. N. Rây and R. Robinson. Chem Soc J 127:740-4 Mr '25

Synthesis of 2:3:10:11-bismethylenedioxyprotoberberine and 6:7:3′:4′-bismethylenedioxyprotopapaverine. J. S. Buck, W: H: Perkin, jr. and T: S. Stevens. Chem Soc J 127:1462-72 Je '25

Synthetical experiments in the *iso*quinoline group. R. D. Haworth and W: H: Perkin, jr. Chem Soc J 127:1434-44, 1448-53 Je '25

Synthetical experiments in the *iso*quinoline group; synthesis of substances allied to oxyberberine. R. D. Haworth, W: H: Perkin, jr. and H. S. Pink. Chem Soc J 127:1709-23 Jl '25

BERGEN, Norway
City of Bergen (Norway) 8s, 1945. Moody's Inv Serv 16:375 O 9 '24

BERGIUS process
Berginisation of coal and oil. A. W. Nash. diags Inst Pet Tech J 10:329-34 Je '24

Berginisation of Emma-coal. H. I. Waterman and J. N. J. Perquin. bibliog Inst Pet Tech J 11:374-8 Ag '25

Complete utilization of coal and motor fuel. A. C. Fieldner and R. L. Brown. Oil Paint & Drug Rep 108:xii-xiii pt 2 O 5 '25; Same cond. Coal Age 28:562-3 O 22 '25; Excerpt. Chem & Met Eng 32:799 O '25

La crise des carburants et les remèdes proposés. A. Travers. diags Chimie & Ind 13: 379-82 Mr '25

Hydrogenation by the Bergius method. H. I. Waterman and J. N. J. Perquin. diags Inst Pet Tech J 10:670-7 S '24

BERGIUS process—*Continued*
Hydrogenation by the Bergius process. H. G. Shatwell. Soc Chem Ind J (Chem & Ind) 44:471-7 My 8 '25
Hydrogenation in the petroleum industry. H. I. Waterman and J. N. J. Perquin. il Inst Pet Tech J 11:36-50; Discussion. 51-60 F '25; Summary. Chem Age (Lond) 12:154-5 F 14 '25
Hydrogenation of coal. Chemicals 24:9 S 21 '25
Hydrogenation of coal. H. G. Shatwell. bibliog Inst Pet Tech J 11:369-74 Ag '25
Liquefaction of wood and cellulose and some general remarks on the liquefaction of coal. H. E. Fierz-David. Soc Chem Ind J (Chem & Ind) 44:942-4 S 25 '25
Motor fuel from coal now interests Germany. Oil Paint & Drug Rep 108:21 Ag 17 '25
Oil from coal at Birmingham. Chem Age (Lond) 12:558 Je 6 '25
Ölsynthese und elektrizitätswirtschaft. zur Nedden. diag Elektrotech Zeit 46:1397-9 S 10 '25
Le procédé Bergius. A. Kling. diags Chimie & Ind 11:1067-77 Je '24
Study of the tars and oils obtained from coal. F. S. Sinnatt and J. G. King. Soc Chem Ind J 44:421-4 Ag 14 '25; Excerpt. Chem Age (Lond) 13:95-6 Jl 25 '25

BERGNER, William G.
Wm. G. Bergner selected to manage Trade extension bureau. por Dom Eng 112:19 S 19 '25

BERKELEY, California

Rapid transit
One-man car trial in Berkeley. Elec Ry J 62:1062; 63:87 D 22 '23, Ja 12 '24
One-man permits revoked at Berkeley. Elec Ry J 63:862 My 31 '24

BERLIN, Germany

Railroads
L'électrification partielle de l'ancien métropolitain et des lignes de banlieue, à Berlin. E. Homolatch. diags map Génie Civil 85:180 Ag 23 '24

Rapid transit
Daily quotation on street car fares in Germany. Elec Ry J 63:216 F 9 '24
Gross-Berliner verkehr. Brömstrup. diags map Zeit Ver Deutsch Ing 68:929-31 S 6 '24
Statistics of Berlin traffic. Elec Ry J 66:400 S 12 '25
Transit conditions in greater Berlin. E. Heisterbergk. maps Elec Ry J 64:310-12 Ag 30 '24

BERMUDA
Engineering impressions of Bermuda. E. J. Mehren. il Eng N 92:523-5 Mr 27 '24
See also Water supply—Bermuda

BERNET, John J.
Van Sweringens picked Bernet to win—why. W: A. McGarry. por Forbes 15:219-21+ N 15 '24

BERTIN, Louis Émile, 1840-1924
Sketch. por Génie Civil 85:458 N 15 '24; Engineering 118:744 N 28 '24

BERYL
Uses and value of beryl. Eng & Min J 117:774 My 10 '24

BERYLLIUM
Electrolytic production of beryllium. B. S. Hopkins and A. W. Meyer. diag Am Electrochem Soc Trans v 45 (preprint 18):263-8 Ap '24
Extraction of beryllium from beryl. E. A. Engle and B. S. Hopkins. Eng & Min J 118:49-50 Jl 12 '24
Marketing of rare metals and minerals. H. C. Meyer. Eng & Min J 118:285 Ag 23 '24
Metallurgy and alloys of beryllium. E. A. Engle and B. S. Hopkins. Am Electrochem Soc Trans v 45 (preprint 17):255-62 Ap '24
Separation of aluminum, beryllium and zirconium from their ores. L: Burgess. Am Electrochem Soc Trans v 47 (preprint 15): 173-80 Ap '25

BERYLLIUM benzoylcamphor
Studies of dynamic isomerism; the mutarotation of beryllium benzoylcamphor. H: Burgess and T: M. Lowry. diag Chem Soc J 125: 2081-96 O '24

BESSEL'S functions
Tables of Bessel's functions. H. E. H. Wrinch and D. Wrinch. Philos Mag 6th ser 47:62-5 Ja '24

BESSEMER & Lake Erie railroad company

Library
Bessemer & Lake Erie railroad company. J. Callan. Special Lib 16:281-6 O '25

BESSEMER process
Acid Bessemer practice in Sweden. Iron Age 114:637-8 S 11 '24
Deriving Bessemer heat balance. H. Hermanns. diags Iron Tr R 73:1487-9 N 29 '23
Einfluss der temperatur und der chemischen zusammensetzung auf die viskosität des eisens. P. Oberhoffer and A. Wimmer. diag Stahl & Eisen 45:969-77; Discussion. 977-9 Je 18 '25
Die herstellung verschiedener stahlsorten im Thomaswerk. E. Faust. Stahl & Eisen 45: 1701-4, 1739-43 O 8-15 '25
Story of steel; Bessemer converter, where air performs the major process in steel making. il Sci Am 130:310-11+ My '24
Die windführung beim konverter-frisch-prozess. H. Folkerts. Stahl & Eisen 45:921-9, 984-92 Je 11-18 '25

BETA naphthol. See Naphthols

BETA rays
Emission of β- and δ-rays from a metallic film, and the relation to the quantum theory of scattering of X-rays. L. Simons. diags Philos Mag 6th ser 48:250-8 Ag '24
Measurements of β-rays associated with scattered X-rays. A. H. Compton and A. W. Simon. Phys R 25:306-13 Mr '25
Nature of beta-rays. A. F. Kovarik and L. W. McKeehan. Nat Research Council Bul v 10, pt 1:74-100 Mr '25
New discussion of Bucherer's experiment. U. Doi. Philos Mag 6th ser 49:434-46, pl 6 F '25; Discussion. G. A. Schott. 50:389-99 Ag '25
Scattering of beta-rays. J. Chadwick and P. H. Mercier. diags Philos Mag 6th ser 50:208-24 Jl '25
Theory of the number of beta-rays associated with scattered X-rays. G. E. M. Jauncey and O. K. DeFoe. Phys R 26:433-5 O '25

BETHLEHEM, Pennsylvania

Bridges
Design and construction of the Hill-to-Hill bridge, Bethlehem, Pa. F. W. Skinner. il diag Munic & Co Eng 66:286-92 Je '24
Hill to Hill bridge. il plans Ry R 75:77-84 Jl 19 '24

BETHLEHEM shipbuilding corporation
Bethlehem ship building corporation denies charges in government suit growing out of war time contracts. Comm & Fin Chr 121: 669 Ag 8 '25
War controversy taken to court; Bethlehem corporation and government file suits. Iron Age 115:1189-91+ Ap 23 '25; Comm & Fin Chr 120:2224-6 My 2 '25

BETHLEHEM steel corporation
Annual report, 19th, for 1923. Comm & Fin Chr 118:1420-1 Mr 22 '24
Annual report, 20th, for year ended December 31, 1924. Comm & Fin Chr 120:1632-3 Mr 28 '25
Bethlehem steel corp. 7% pfd. Moody's Inv Serv 17:71 F 26 '25
Bethlehem's twentieth birthday. il Blast F & Steel Pl 13:16-19 Ja '25; Excerpts. Bankers M 110:88-9 Ja '25
Consolidated mortgage bonds. Moody's Inv Serv 17:227 Jl 9 '25
Financial structure of the Bethlehem steel corporation. G: C. Cox. Annalist 25:287-8 F 23 '25
First-quarter earnings for 1925. Iron Age 115: 1292 Ap 30 '25

BETHLEHEM steel corporation—*Continued*
Fourth-quarter earnings. Iron Age 115:399 Ja 29 '25; Iron Tr R 76:359, 852 Ja 29, Mr 26 '25
Net earnings of 1923. Iron Age 113:374 Ja 31 '24
Which is more efficient, Steel corporation or Bethlehem? A. J. Hain. Iron Tr R 76:886 Ap 2 '25

BETTER business bureaus
Better business bureaus become national body. Ptr Ink 131:78 My 21 '25
How a Better business bureau prepares recommendations. E. L. Greene. Ptr Ink 131:34+ My 14 '25
Machinery of organized truth-in-advertising work. Ptr Ink 129:120+ D 25 '24
Would broaden work of better business bureaus. Ptr Ink 128:129+ S 11 '24

BEVEL gearing. See Gearing, Bevel

BEVERAGES
Contamination of beverages and other food with zinc. J. W. Sale and C. H. Badger. Ind & Eng Chem 16:164 F '24
Germicidal effect of carbonic gas in beverages. J. R. Donald, C. L. Jones and A. R. MacLean. Can Chem & Met 8:165-8 Jl '24
Liquid carbonic sales organization. W. J. Graham. Management & Adm 10:255-8 N '25
Nonintoxicating beverages in Latin America. U S Bur For & Dom Com Trade Information Bul 260:1-22 '24
Permanently turbid, fruit-flavored beverages. Chem Age 32:356-7 Ag '24
Putting pep in carbon dioxide. il Chem & Met Eng 32:192-4 F 2 '25

See also Bottling; Cassina; Chocolate; Coffee; Tea; Wine

BIBBINS, Tracy Elwood, 1866-1925
Sketch. por Gen Elec R 28:537 Jl '25

BIBLE
How private enterprise got distribution for the Bible. J. H. Collins. Ptr Ink 127:73-4+ Je 26 '24

BIBLIOGRAPHY
Around the bibliographical corner; some projected bibliographic and reference compilations. J: B. Kaiser. Lib J 50:700-4 S 1 '25
Handbuch der bibliographie. G: Schneider. 544p K. W. Hiersemann, Leipzig '23

See also Cataloging; *also* subdivision Bibliography under various headings e.g. Accounting; Architecture; Business; Cataloging; Chemistry; Civil engineering; Directories; Electric machinery; Employment management; Glass; Labor and laboring classes; Lighting; Mechanical engineering; Paper; Patents; Petroleum; Pickling (metals); Railroads; Reference books; Rubber; Waterworks

Best books

One thousand useful books. 63p American library assn., Chicago '24

Bibliography

Bibliography of bibliographies on chemistry and chemical technology. C. J. West and D. D. Berolzheimer. Nat Research Council Bul v 9, pt 3:1-308 Mr '25
Index bibliographicus; international catalogue of sources of current bibliographical information. M. Godet, ed. 233p League of nations, Comm. on intellectual co-operation, Geneva '25
Recent technical bibliographies. R. N. Brown. Special Lib 15:32-7, 58-61 F-Mr '24
Reference list of bibliographies; chemistry, chemical technology and chemical engineering published since 1900. J. A. Sohon and W: L. Schaaf, comps. 100p H. W. Wilson co. '24

BICYCLE tires. See Tires, Bicycle

BICYCLES

See Motor cycles

BIG Four railroad. See Cleveland, Cincinnati, Chicago & St Louis railway

BILLBOARDS
Billboard and the public highways. J. H. McFarland. Ann Am Acad 116:95-101 N '24
Chicago chain stores and advertisers cooperate in poster campaign. Sales Management 9:209+ Ag 22 '25
Education to aid outdoor advertising; Barney Link fellowship at University of Wisconsin. F. Hanks. Ptr Ink 127:93-4 Je 19 '24
How outdoor advertising can be part of the natural landscape. F. A. Aust. il Ptr Ink 127:120-1+ Ap 24 '24
Injunction halts removal of outdoor advertising structures. Ptr Ink 131:81 Je 25 '25
Is an assault on advertising under way? Ptr Ink 127:54+ Ap 17 '24
Making over bleak walls. F. H. Williams. il Pet Age 16:26+ S 15 '25
Meal ticket of American art. J. O'Shaughnessy. Ptr Ink 127:25-6 Ap 24 '24
Out-of-door advertising. J: F. Weedon. il Am Gas J 122:459-60+ My 30 '25
To the ladies. Ptr Ink 127:125-6+ My 8 '24
Will the present crusade strengthen outdoor advertising? C. Bold. Sales Management 6:923-4 My '24

See also Outdoor advertising association of America

Taxation

Senator Curtis explains his proposed tax on advertising. Ptr Ink 125:10+ N 8 '23
Taxing roadside billboards. Eng & Contr (R & S) 64:49 Jl 1 '25

BILLIARD rooms
Billiard and pool rooms in private houses. il Am Arch 128:397-402 N 5 '25

BILLING
A.R.A. car-repair billing. B. F. Jamison. Ry Mech Eng 98:610-13 O '24; Discussion. 98: 675-7 N '24
Billing and collecting methods. E. R. Prentice. Am Water Works Assn J 13:39-41 Ja '25; Same. Eng & Contr (W W) 63:319-20 F 11 '25
Billing problems solved. E. Boykin. il Credit M 27:24+ O '25
Billing without bills. Elec W 85:468 F 28 '25
Bookkeeping without books in use by the Nashville gas & heating company, Nashville, Tenn. W. N. Porter. Am Gas Assn Accounting sec v 6:470-3; Discussion. 473-82 '24
Bookless bookkeeping. O. E. Wasser. Am Gas Assn Accounting sec v 6:459-69 '24
Economies of centralized machine billing. H. C. Bradshaw. Elec W 84:749-50 O 4 '24
Estimating bills. W. C. Hawley. Am Water Works Assn J 10:992-7 N '23
Experiences with modern gas accounting methods. P. H. Sanderson. Am Gas J 123: 8+ Jl 4 '25
Figuring 30,000 gas bills a day. Am Gas J 120:89+ F 2 '24
Handling car repair bills efficiently. il Ry Age 76:371-2 F 9 '24
John Poole, banker, puts customers' interests first. J. True. Ptr Ink 132:150+ S 17 '25
Machine billing and bookkeeping as in force at Portland gas & coke company. W: H. Barton. Am Gas Assn Accounting sec v 5: 565-9 '23
Machine billing of customers' service accounts. J: L. Conover. Gas Age 55:699-700+, 739-40 My 16-23 '25
Meter reading and bill delivering. C. R. Johnson. Am Gas J 123:219-20+ S 12 '25; Same cond. Gas Age 56:567-8 O 17 '25
Results of bookkeeping without books; machine-billing method. Elec W 84:24-5 Jl 5 '24
Rochester's (New York) meter-reading and billing system. S. B. Story. N E Water Works Assn J 39:71-3 Mr '25; Same. Eng & Contr (W W) 63:1248-9 Je 10 '25; Discussion. N E Water Works Assn J 39:74-8 Mr '25

BILLING—*Continued*
Simplified customers' accounting. S. P. Farwell. Am Gas J 122:307+ Ap 11 '25
Some experience in machine billing. Elec W 83:1013-14 My 17 '24
When shall agencies bill clients? Ptr Ink 126: 20 Mr 6 '24
See also Collecting of accounts; Invoices

BILLS of lading
Does your shipping department understand the bill of lading? R: C. Tarr. Factory 34: 777-8+ My '25
Liability of ocean carriers for cargo damage or loss; progress toward uniform legislation. A. J. Wolfe. U S Bur For & Dom Com Trade Information Bul 297:1-23 '24
Some causes of delay to loaded car movement. R. A. Munsch. il Ry R 74:681-3 Ap 12 '24; Abstract. Ry Age 76:788 Mr 22 '24
Uniform through export bill of lading. W. R. Long. U S Bur For & Dom Com Trade Information Bul 335:1-43 '25
See also Shipment of goods

BINDER twine. See Twine

BINDING materials
Bonding high-temperature refractories. R. C. Gosreau. Chem & Met Eng 31:696-8 N 3 '24
See also Redmanol

BINGHAMTON, New York

Bridges

Construction features of concrete bridge at Binghamton. il Eng N 95:264-5 Ag 13 '25

Rapid transit

Plan ahead for rehabilitation of Binghamton finances. Elec Ry J 66:417 S 12 '25

BINGO gold mine. See Gold mines and mining—Manitoba

BINS
Bottomless bins for stock storage. A. A. Brown. il Am Mach 61:437 S 11 '24
Segregation in bins. T. W. Garve. il diags Am Cer Soc J 8:666-70 O '25
See also Ore bins

BINS, Concrete
Colorado Portland cement co. erects new silo storage bins. E. J. Strock. il diags plans Concrete (cement mill sec) 25:35-8 S '24
Design of reinforced-concrete bins for crushed stone plant. J. M. Taggart. il diag Eng N 94:356-7 F 26 '25
Design of reinforced-concrete circular bins for the storage of cement. H. A. Ward. Am Concrete Inst Pro 21:239-47; Discussion. 248-51 '25
Movable form for circular bins. N. M. Kaplan. il Eng N 92:1110 Je 26 '24
See also Coal bins, Concrete

BINS, Steel
Circular steel bins at sand and gravel plant. il Eng & Contr (G C) 63:1126 My 20 '25

BIOCHEMICAL society
Biochemical society meeting, Cambridge, Oct. 10. Soc Chem Ind J (Chem & Ind) 44:1016-17 O 16 '25
Meeting at University college, London, Feb. 9. Soc Chem Ind J (Chem & Ind) 44:255-6 Mr 6 '25

BIOLOGICAL chemistry
Biochemistry of the fats. W. R. Bloor. Chem R 2:243-300 [bibliog. p. 295-300] Jl '25
Chemical dynamics of life phænomena. O: Meyerhof. 110p [bibliog. p. 101-8] Lippincott '24
Ferments and their work in the organism. Sci Am 131:256 O '24
Physico-chemical evolution. C: E. Guye. 172p Dutton
Physikalische chemie der zelle und der gewebe. R. Höber. 5th ed. 906p W. Engelmann, Leipzig '24
Proximate composition of certain Pacific coast fishes. D. B. Dill. Ind & Eng Chem 17: 629-30 Je '25
Recovery of small amounts of zinc from biologic material ashed by the incineration process. P. K. Thompson. J Ind Hygiene 7:358-70 [bibliog. p. 369-70] Ag '25
See also Blood; Botanical chemistry; Immunity; Nutrition; Physiological chemistry; Plant growth; Tuberculinic acid; *also* Biochemical society

BIOLOGICAL physics
Interfacial forces and phenomena in physiology. W: M. Bayliss. 196p Dutton '23
See also Evolution; Heredity; Life; Marine biology; Plants

BIOS
Bios question. F. W. Tanner. Chem R 1:397-472 [bibliog. p. 466-72] Ja '25
Face to face with vitamin D. il Sci Am 131: 167 S '24
Fractionation of bios, and comparison of bios with vitamins B and C. G: H. W. Lucas. J Phys Chem 28:1180-1200 N '24
Further developments in the study of Wildiers' bios. W. L. Miller and others. Can Chem & Met 8:57-8 Mr '24
Isolation from autolyzed yeast of a crystalline substance melting at 223°, having the properties of a bios. W. H. Eddy, R. W. Kerr and R. R. Williams. il Am Chem Soc J 46:2846-55 D '24
Multiple nature of bios. E. I. Fulmer, W. W. Duecker and V. E. Nelson. Am Chem Soc J 46:723-6 Mr '24

BIOTITE
Studies in the mica group. A. N. Winchell. Am J Sci 5th ser 9:309-27 Ap '25

BIQUINOLINE
Homologues of 2:2'-diquinolyl. E: J: V. Conolly. Chem Soc J 127:2083-5 S '25

BIRCH, Stephen
Mining engineers of note. por Eng & Min J 119:556 Ap 4 '25

BIRD guards. See Electric lines—Bird guards

BIRDS
Birds and sewage disposal. L. A: Hausman. il Sci Am 130:398 Je '24
Policy for the conservation of our wild game. il Sci Am 132:310-11 My '25
See also Canaries

Flight

See Flight

BIRMINGHAM, Alabama
Birmingham—key to a treasure house. R: Spillane and others. il Comm & Fin 14: 1097-1110 Je 3 '25
Center of industrial and general business development. L. W. Friedman. il Manuf Rec 85:86-96 My 15 '24

Rapid transit

Jitneys meet doom in Birmingham. Elec Ry J 62:1097-8 D 29 '23
Tidewater line at Birmingham sold under foreclosure. Elec Ry J 63:635 Ap 19 '24

Sanitary affairs

Sanitation in Birmingham's unsewered areas. W. A. Hardenbergh. il diags map Pub Works 56:313-16 S '25

BIRMINGHAM medal
Dr Carpenter and the Birmingham medal. Gas J (Lond) 170:857-8 Je 17 '25

BIRTH rate
Local variations in the birth-rate. C. T. Brunner. Econ J 35:60-5 Mr '25
Number of children per family needed to maintain a stationary population. Econ W n s 29:62 Ja 10 '25
See also Family

New Zealand

New Zealand study in natality. E: P. Neale. Am Statis Assn J 19:454-67 D '24

BISCUIT cutters. See Cookie cutters—Manufacture

BISCUIT making machinery
Automatic biscuit making machinery at the British Empire exhibition. il (supp) Engineer 138:6-7 Jl 4 '24

BISCUITS
Manufacture
Biscuit baking by gas at Liverpool. R. E. Gibson. il Gas J (Lond) 168:31-3 O 1 '24
Cost system that helps the production executive; Strietmann biscuit company. O. C. F. Lippert. il Factory 34:278-80+ F '25

BISMUTH
Bismuth. F. Y. Robertson. Eng & Min J 119: 92-3 Ja 17 '25
High prices stimulate interest in bismuth. Eng & Min J 120:301-2 Ag 22 '25
Isotopes of cadmium, tellurium and bismuth. F. W. Aston. Soc Chem Ind J (Chem & Ind) 43:1195-6 N 28 '24
Organo-derivatives of bismuth; iodo- and nitro-derivatives of triphenylbismuthine. J: F: Wilkinson and F: Challenger. Chem Soc J 125:854-64 Ap '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:11 Ja 4 '24
Spectra and critical potentials of fifth group elements. A. E. Ruark and others. il U S Bur Stand Sci Pa 490:463-85 '24
Thermal conductivity of bismuth in a transverse magnetic field. F. A. Ward. diags Philos Mag 6th ser 48:971-7 N '24

BISMUTH dihydride
Bismuth dihydride. E: J. Weeks and J: G. F: Druce. Chem Soc J 127:1799-1800 Ag '25

BITULITHIC roads. See Roads, Bitulithic

BITULOID
Bituloid, a colloidal oil, tested as a medium for laying coal dust. Coal Age 27:537 Ap 9 '25
Colloidal oil (bituloid) as a medium for laying coal dust. H: Briggs and N. H. Wales. Coal Age 26:615-17 O 30 '24

BITUMINOUS coal mines. See Coal mines and mining

BITUMINOUS materials
Apparatus for determining the specific gravity of aggregates. F. H. Tucker. il diags Ind & Eng Chem 17:517-20 My '25
Bituminous substances. P. E. Spielmann. 221p Van Nostrand '25
Checking tank car quantities in road work. H. J. Kirk. il Eng N 95:274-5 Ag 13 '25
Low temperature treatment of bituminous materials. Chem Age (Lond) 12:72-3 Ja 24 '25

See also Asphalt; Coal tar; Manjak; Oil shales; Pavements, Bituminous; Road oils; Roads, Bituminous; Tar

Testing
Testing bituminous materials. B. H. Piepmeier. Munic & Co Eng 69:73-5 Ag '25

BITUMINOUS pavements. See Pavements, Bituminous

BITUMINOUS roads. See Roads, Bituminous

BITUMINOUS sand
Bituminous sands of northern Alberta. S. C. Ells. Inst Pet Tech J 10:358-9 Je '24
Chemical problems in the water driving of petroleum from oil sands. P. G. Nutting. Ind & Eng Chem 17:1035-6 O '25
Correlation of oil sands by sedimentary analysis. A. C. Trowbridge and M. E. Mortimore. il diags map Econ Geol 20:409-23 Ag '25
Extent and characteristics of northern Alberta bituminous sands. S. C. Ells. Nat Pet N 16:69+ Ap 9; 75+ Ap 23 '24; Same cond. Inst Pet Tech J 10:710-17 S '24
Les grès bitumineux de Madagascar. J. A. Hardel. Chimie & Ind 11:1003-13; Discussion. 1014-17 My '24
Process is evolved to recover oil from bituminous sands. L. E. Smith. il Nat Pet N 17: 31-3 Je 10 '25

BIURETS
Certain substituted biurets. E. S. Gatewood. Am Chem Soc J 47:407-12 F '25
Substituted biurets and allophanic esters. H. Biltz and A. Jeltsch. Chem Soc J 124 pt 1: 1074-5 N '23

BLACK
Black and blue. W. D. Bancroft. J Phys Chem 28:715-19 Jl '24
Black dye among the American Indians. C. D. Mell. Textile Col 46:791 D '24
Black dyeing of woolen goods. J. M. Matthews. Color Tr J 16:95-8 Ap '25
Black vat dyestuff; treating nitrated dibenzanthrone with sulfur. P. Nawiasky and E. Krauch. Chemicals (Dyestuffs sec) 17:117-18 N 9 '25
Dyeing cotton-silk mixtures black. Textile Col 47:719 N '25
Dyeing of hosiery. M. N. Conklin. Color Tr J 14:84-6 Mr '24
Grey and black dyestuffs; tables. Soc Dyers & Col J 41:135 Ap '25
New black azo dyestuffs fast to chlorine from oxynaphthoic acid. Color Tr J 16:32 F '25
New black azo dyestuffs for cotton. Color Tr J 14:14-16 Ja '24
Tests for blacks on cotton. C. F. Green. Textile Col 47:312-14 My '25

See also Aniline black; Bone black; Carbon black; Logwood; Platinum black; Sulfur black

BLACK and Decker manufacturing company
How Black & Decker get co-operation of distributors. G. W. Brogan. Ptr Ink 129:57-8+ O 23 '24

BLACK body
Primary standard of light following the proposals of Waidner and Burgess. H. E. Ives. J Fr Inst 197:147-82, 359-400 F-Mr '24; Abstract. Gas J (Lond) 167:642-3 Ag 20 '24

BLACK dammar
Travancore essential oils; from the resin of canarium strictum, Roxb. (black dammar). K. L. Moudgill. Soc Chem Ind J 44:169-72 Ap 10 '25

BLACK HILLS
See also Geology—South Dakota

BLACK liquor. See Paper making—By-products

BLACK prints
Plan copying in black lines for hot countries. B. J. Hall. 15p Pitman

BLACK, Starr and Frost
Why we started to advertise after 113 years. R. C. Black. il System 45:642-4+ My '24

BLACKBERRIES
Non-volatile acids of the blackberry. E. K. Nelson. Am Chem Soc J 47:568-72 F '25

BLACKBURN, W. H.
Mining engineers of note. por Eng & Min J 120:84 Jl 18 '25

BLACKDAMP
Stay out of abandoned mines, Bureau warns public. Coal Age 28:431 S 24 '25

BLACKSMITH shops
Adjusting machine for the blacksmith shop. il diag Ry Mech Eng 99:178-9 Mr '25
Tools and formers for the blacksmith shop. S. J. Uren. il Ry Mech Eng 99:651 O '25
Visit to a well organized railroad blacksmith shop. il plans Ry R 75:271-7, 355-61 Ag 23, S 6 '24

See also Forge shops; Forges

BLACKSMITHING
Étude du fonctionnement de la forge maréchale. il diag Génie Civil 83:543-6 D 1 '23
Forging and smithing, a book for schools and for blacksmiths. L. C. Jones. 211p Century co. '24
Kinks in a railroad blacksmith shop. J. Williams. il diag Am Mach 62:391-4 Mr 5 '25
Mechanical helper for blacksmith shop. il Elec Ry J 65:232 F 7 '25

See also Forging; Horseshoes—Manufacture; Welding; *also* International railroad master blacksmiths' association

BLACKSTONE engine
300-b.h.p. cold-starting heavy oil engine constructed by Blackstone & co. il diags Engineering 118:638-40; 119:528 N 7 '24, Ap 24 '25

BLANK books. See Notebooks

BLANKETS
Finishing sample ranges. Textile World 67: 4149 Je 27 '25
Measurement of heat insulation and related properties of blankets. P. D. Sale and A. F. Hedrick. il diags U S Bur Stand Tech Pa 266:529-46 '24; Abstract. J Fr Inst 198: 827-9 D '24
Science and blankets. il Sci Am 130:35 Ja '24
Thick blankets are not always warmest. Sci Am 132:115 F '25

BLAST furnace gas
Application of blast furnace gas and air for blowing a gas producer. G. R. McDermott. Blast F & Steel Pl 13:344-6 S '25
Betrachtungen über die gaswirtschaft im elektrohochofenbetriebe. R. Durrer. diag Stahl & Eisen 44:748-50 Je 26 '24
Economical use of fuel in steel plants. H. E. Seibert. Iron Age 112:1651-2 D 20 '23
Economy of gas blowing engines; abstract. C. G. Sprado. Mech Eng 47:651 Ag '25
Die gasumsetzungen in den kammern der mit einem gemisch aus hochofen- und koksofengas beheizten Siemens-Martin-oefen. W. Hülsbruch. Stahl & Eisen 45:1746-51 O 15 '25
Die hochofengaswirtschaft auf eisenhüttenwerken. K. Rummel. il diags Zeit Ver Deutsch Ing 68:1137-44 N 1 '24
New gas-engine plant of the Illinois steel company. il diags Power 59:552-7 Ap 8 '24
Observations in blast-furnace gassing. R. C. Engel. J Ind Hygiene 7:122-3 Mr '25
7150 b.h.p. Cockerill gas engine. il diag Engineer 139:166, 168-9 F 6 '25
Temperatur und analyse der gichtgase an der gicht eines neuzeitlichen hochofens. H. Lent. diags Stahl & Eisen 45:1149-52 Jl 9 '25
Unusual blast furnace boiler plant. G: G. Crawford. diags plan Blast F & Steel Pl 12:77-80 Ja '24
Use of blast-furnace gas. R. Herzfeld. Power 60:784 N 11 '24

Cleaning

Betriebsversuche an einer hochofengas-nassreinigungsanlage. M. Steffes. diags Stahl & Eisen 44:92-6 Ja 24 '24
Clean gas aids furnace practice. G. M. Hohl. Iron Tr R 74:1630-1 Je 19 '24; Same cond. Iron Age 113:1563-4 My 29 '24
Dry cleaning blast furnace gas by filtration through flue dust; abstracts. G: B. Cramp. diags Blast F & Steel Pl 12:101-3 F '24; Chem & Met Eng 30:400 Mr 10 '24
Electrical cleaning of blast furnaces gases. N. H. Gellert. Blast F & Steel Pl 12:423-6 S '24; Excerpts. Iron Age 114:502-3 Ag 28 '24
Die elektrofilter-versuchsanlage zur reinigung von hochofengas auf den rheinischen stahlwerken in Duisburg-Meiderich. H. Lent. diags Stahl & Eisen 43:1467-71; Discussion. 1471-4 N 29 '23
L'enlèvement des poussières des gaz de hauts fourneaux. Génie Civil 86:316-17 Mr 28 '25
L'épuration électrique des gaz de hauts fourneaux. Génie Civil 86:292-3 Mr 21 '25
Neuere ergebnisse mit der elektrischen gasreinigung. R. Durrer. il diags Stahl & Eisen 44:809-12; Discussion. 812-14 Jl 10 '24
Removing dust from blast furnace gases. N. H. Gellert. diag plan Iron Age 113:422-5 F 7 '24
Tests dust catcher efficiency. R. P. Hudson. diag Iron Tr R 76:820-1 Mr 26 '25
Versuche an einer elektrischen gasreinigung beim hochofenwerk Lübeck. J. Dreher. il diags Stahl & Eisen 44:873-9 Jl 24 '24

BLAST furnace slag. See Slag

BLAST furnace stoves
Les derniers perfectionnements des appareils Cowper. A. Cousin. diags Génie Civil 86:167 F 14 '25
Neuere erfahrungen mit dem Pfoser-Strackstumm-verfahren. A. Wefelscheid. diags Stahl & Eisen 43:1339-47, 1588-9 O 25, D 27 '23
Ueber die betriebsergebnisse mit semmelsteinen auf der Sophienhütte der Buderusschen eisenwerke in Wetzlar a. d. Lahn. K. Harnickell. il Stahl & Eisen 44:846-51; Discussion. 851-4 Jl 17 '24
Zur theorie und berechnung der winderhitzer. H. Gröber. diags Stahl & Eisen 44:33-9 Ja 10 '24

BLAST furnace workers
Wages and hours in the blast-furnace, Bessemer, open-hearth, and tin departments of the iron and steel industry, 1924. Monthly Labor R 19:101-6 Jl '24

BLAST furnaces
Anblasen, dämpfen und niederblasen von hochöfen. H. v. Schwarze. Stahl & Eisen 45:609-13; Discussion. 613-14 Ap 23 '25
Beiträge zur frage der granulation und trocknung von hochofenschlacke. diags Stahl & Eisen 45:529-36, pl 19-20 Ap 9 '25
Betriebsanlage und technische gliederung nordamerikanischer hochofenwerke. O. Wehrheim. il diags Stahl & Eisen 44:1005-12, 1074-80, 1105-12, 1138-45 Ag 21, S 4-18 '24
Blast furnace and open-hearth problems discussed at meeting of American institute of mining and metallurgical engineers. Iron Tr R 74:618-19 F 28 '24
Blast furnace in New Zealand. il Engineer 137:688, 690-1 Je 20 '24
Blast furnace plant at Asansol, India. il Iron Age 114:254-6 Jl 31 '24; Same. Iron Tr R 75:294-6 Jl 31 '24; Same. Blast F & Steel Pl 12:398-400 S '24
Blast furnace practice. M. Meredith. Blast F & Steel Pl 12:280 Je '24
Blast furnace practice in India. J. L. Keenan. il diags Blast F & Steel Pl 13:426-9 N '25; Abstracts with discussion. Engineering 120: 362 S 18 '25; Engineer 140:290-1 S 18 '25
Blast furnace progress. J. A. Mohr. il Blast F & Steel Pl 12:8-12 Ja '24
Blast furnace progress in 1924. H. E. McDonnell. il Blast F & Steel Pl 13:66-9+ F '25
Blast pressure governs salamanders. Iron Tr R 77:437 Ag 20 '25
Build blast furnace plant in Holland. il Iron Tr R 74:285-6 Ja 24 '24
Combustion in the gas producer and the blast furnace. A. Korevaar. 189p Van Nostrand '24
Completes new British furnace at Middlesbrough. J. Horton. il Iron Tr R 73:1480-1 N 29 '23
Correlates iron and steel making practice. J. E. Fletcher. Iron Tr R 77:967-70 O 15 '25; Same. Foundry 53:878-81+ N 1 '25
Discourse on draught for rolling mill furnaces. W: Lester. Blast F & Steel Pl 13: 404+ O '25
Dismantling old stacks by blasting. J. R. Briggs. il Iron Tr R 75:484-6 Ag 21 '24
Effect of sulphur on the blast furnace process; abstract with discussion. L. L. Joseph. Iron Age 115:620+ F 26 '25
Einfluss der erzstückgrösse auf die reduktionsvorgänge im hochofen. G. Bulle. diags Stahl & Eisen 45:390-2 Mr 12 '25
Enriched air blast for metallurgical furnaces. Chem & Met Eng 30:520-1 Mr 31 '24
Fixation of nitrogen as cyanide. R: Franchot. bibliog Ind & Eng Chem 16:235-8 Mr '24
Formula for determining the relative value of ores as applied to blast furnace conditions. J. P. Dovel. Iron Age 113:1429 My 15 '24
Furnace operators seek better materials. R. H. Sweetser. il Iron Tr R 76:22-3 Ja 1 '25
Die gewinnung und verwendung von sauerstoff-angereicherter luft im hüttenbetriebe. A. Brüninghaus. diags Stahl & Eisen 45: 737-46; Discussion. 746-8 My 14 '25

BLAST furnaces—*Continued*
Das hängen der gichten beim hochofen. D. H. Dresler. diag Stahl & Eisen 45:180-2 F 5 '25
Holland's first blast furnace. A. C. Blackall. Blast F & Steel Pl 13:8 Ja '25
How ferrophosphorus is produced in the blast furnace. J. A. Barr. Iron Tr R 75: 1715+ D 25 '24
How silica affects cost of iron. T. T. Read, T. L. Joseph, and P. H. Royster. chart Iron Tr R 74:288-91 Ja 24 '24
Hudson Valley coke and products corporation blast furnace at Troy, N.Y. Iron Age 115: 1567 My 28 '25
Die inneren formen neuzeitlicher hochöfen. G: Jantzen. Stahl & Eisen 44:681-4 Je 12 '24
Inwall cooling for blast furnace. il diags Iron Age 116:530-1 Ag 27 '25
Iron hottest at middle of cast. S. P. Kinney. Iron Age 116:466-7+ Ag 20 '25
Ironmakers break production records. R. H. Sweetser. il Iron Tr R 74:18-19 Ja 3 '24
La loi de la compression de la chaleur et l'économie de combustible dans les hauts fourneaux. A. Korevaar. diags Chimie & Ind 11:642-50 Ap '24
Make iron again on banks of Hudson; the Hudson Valley coke and products co. H. R. Simonds. il Iron Tr R 76:1383-4 My 28 '25
Manganiferous ores in blast furnace. Iron Age 116:531 Ag 27 '25
Massnahmen zur begünstigung der indirekten reduktion im hochofen. K. Hofmann. Stahl & Eisen 45:1709-11 O 8 '25
Material and heat balance of a southern foundry furnace. S. P. Kinney. Blast F & Steel Pl 13:272-7 Jl '25
Number, shape, diameter and position of blast-furnace tuyeres and their influence on the behaviour of the furnace; abstract. M. Derclaye. Iron & Steel Inst J 110:364-6 no 2 '24
Occurrence of alkali cyanides in the iron blast furnace. S. P. Kinney and E. W. Guernsey. diag Ind & Eng Chem 17:670-4 Jl '25; Same. Blast F & Steel Pl 13:395-9 O '25
Opening frozen blast furnace holes; use of oxygen lance. E. E. Thum. il diag Iron Age 116:1244-7 N 5 '25
Outlines blast furnace practice. R. H. Ledbetter. Iron Tr R 75:1163-4+ O 30 '24; Same cond. Iron Age 114:1128-30 O 30 '24
Progress in blast-furnace work. P. H. Royster, T. L. Joseph and S. P. Kinney. Engineering 116:667-8 N 23 '23
Proposed hearth and bosh construction. S. P. Kinney and F. B. McKenzie. diags plan Iron Age 115:476-8 F 12 '25
Reconstruction of blast-furnace blowing engines. W. Benedict. il Power 60:290-1 Ag 19 '24
Record of the furnaces in and out of production as of Dec. 1. Iron Age 114:1481 D 4 '24
Reduction of iron ore in the blast furnace. P. H. Royster, T. L. Joseph and S. P. Kinney. diag Blast F & Steel Pl 12:35-7, 98-100, 154-8, 200-4, 246-50+, 274-80 Ja-Je '24
Reduktionszeiten der eisenerze im hochofen. C. Zix. diag Stahl & Eisen 45:434 Mr 19 '25
Research method for blast furnaces. W. G. Imhoff and D. E. Ackerman. il Iron Age 115:203-11 Ja 15 '25
Silica gel in industry; plant for drying air for blast furnaces. il Chem Age (Lond) 13:273 S 12 '25
Sketch from memory of an historic furnace; Henry Clay furnaces, Reading, Pa. il Blast F & Steel Pl 13:172 Ap '25
Story of steel. il diag Sci Am 130:234-5 Ap '24
Study of carbon used in blast furnace otherwise than before the tuyeres. W. D. Brown. Blast F & Steel Pl 13:236-8 Je '25
Study stock flow in furnaces. P. H. Royster and T. L. Joseph. diags Iron Tr R 74:738-40+ Mr 13 '24
Ueber praktische erfolge neuer theorien des hochofens. Stahl & Eisen 44:311-17 Mr 20 '24
Die verhüttung von kleinstückigem koks. A. Wagner. Stahl & Eisen 45:929-35; Discussion. 936-8 Je 11 '25
Die verwendung von sauerstoff und sauerstoffreicher luft bei der roheisenerzeugung. R. Schenck. Stahl & Eisen 44:521-6 My 8 '24
Die zyanbildung beim hochofenprozess. H. Braune. Stahl & Eisen 45:581-2 Ap 16 '25

See also Air heaters; Blast furnace gas; Cupola furnaces; Flux; Iron metallurgy; Iron workers; Iron works; Slag

Charging

Aufgebe-vorrichtungen für hochöfen. D. H. Dresler. diags Stahl & Eisen 44:973-6 Ag 14 '24
Die maschinellen einrichtungen der eisenhüttenwerke. H. Hoff. il diags Zeit Ver Deutsch Ing 69:1013-21 Ag 1 '25
Mechanical handling at River Rouge; the blast furnace as a materials handling problem. M: W. Potts. il Ind Management 68: 74-6 Ag '24
Die neue hochofen-begichtungsanlage der Georgs-Marien-hütte. il Stahl & Eisen 44: 1177-8 S 25 '24
Eine neuzeitliche verlade- und begichtungsanlage. A. Schruff. il diag plan Stahl & Eisen 45:1517-21 S 3 '25
Recent mechanical chargers for blast furnaces. J. M. Ringquist. diags Cassier's Ind Management 12:398-402 Ag '25
Skip tubs replace ore barrows. J: D. Knox. il diag Iron Tr R 76:1189-93 My 7 '25
Ueber das verhalten des beschickung im hochofen. E. Diepschlag. Stahl & Eisen 44:430-2 Ap 17 '24

Equipment

L'installation de mise en stock de minerais des hauts fourneaux et fonderies de Pont-à-Mousson. C. Dantin. il plan Génie Civil 87:221-4, pl 2 S 12 '25

See also Blowers; Ore handling

Fuel

Combustiblité du coke pour haut fourneau; abstract. Shermann and Kinney. Chimie & Ind 13:756-9 My '25
Combustibility of blast furnace coke. R. A. Sherman. Iron Age 115:1043-5 Ap 9 '25
Combustion of coke at the tuyere level of the blast furnace. S. P. Kinney. il diags Blast F & Steel Pl 13:243-7 Je '25
Fuel in iron making. Iron Age 116:753 S 17 '25
Properties of metallurgical coke. G. St J. Perrott and A. C. Fieldner. diags Am Soc T M Pro 23 pt 2:475-93; Discussion. 494-500 '23
La réactivité du coke; son rôle dans la marche du haut fourneau. J. P. Arend and J. Wagner. Génie Civil 85:503-5 N 29 '24
Reactivity of coke in relation to blast-furnace operation. G. St J. Perrott and R. A. Sherman. Eng Soc W Pa 39:351-68; Bibliography. 369; Discussion. 370-5 Ja '24
Die rohstoffe und ihre vorbereitung für den hochofenbetrieb in Nordamerika. H. Koppers. diags Stahl & Eisen 43:1557-65 D 20 '23; Discussion. 44:591-8 My 22 '24
Uniform coking coal is needed; abstracts. W. Mathesius. Iron Tr R 74:1422-4 My 29 '24; Iron Age 113:1695-6 Je 5 '24

Linings

Furnace lining wears unevenly. S. P. Kinney. diag Iron Age 115:1639-40 Je 4 '25
Reducing lining disintegration. H. E. Townsend. diags Iron Tr R 74:232-4 Ja 17 '24

BLASTING
Atlas special no. 2 blaster. il Eng & Contr (G C) 63:1082 My 20 '25
Blasting a Colorado snow drift. il Pub Works 56:286 Ag '25
Blasting a new face on nature. C: E. Munroe. il Min Cong J 10:467-8 O '24
Blasting brick foundation. il Eng & Contr (G C) 64:669 S 16 '25
Blasting data. S. R. Russell. Concrete 24:sup 22-3 F '24

BLASTING—*Continued*
Blasting in Swiss tunnels. A. Stettbacher. il diags Eng & Contr (Ry) 61:840-3 Ap 16 '24
Blasting with high explosives. W. G. Boulton. 108p Pitman '23
Blasts set off by lightning. R. T. Brown. Eng & Contr (R & S) 62:270-1 Ag 6 '24
Breaking ore at Utah Copper. G: J. Young. il diags Eng & Min J 118:645-9 O 25 '24
Coyote hole or tunnel blasting. G: E. Willman. diags plan Concrete (cement mill sec) 26:78-9 Je '25
Dewatering a wet hole in blasting. E. P. Thomas. Coal Age 24:743-4 N 15 '23
Efficient blasting in metal mines. A. E. Anderson. diags Eng & Min J 118:845-51 N 29 '24
Electric blasting in the Engels mine. W. R. Lindsay. Eng & Min J 120:576-7 O 10 '25
Hercoblasting. J. Barab. diags Concrete 24: sup28-9 F '24; Same. Eng & Min J 117:625-6 Ap 12 '24
How dynamite is used in ice blasting. N. D. Rand. Eng N 91:1065-6 D 27 '23
How dynamite was used in breaking a large wheel. H. B. Barnes. Am Mach 60:243-4 F 14 '24; Same cond. Ind Eng 82:35-6 Ja '24
How to avoid waste of explosives. R. N. Van Winkle. Eng & Contr (R & S) 60:507-8 S 5 '23; Same. Can Eng 46:473 Ap 29 '24
How to blast ice jams. Eng & Contr (R & S) 63:489-90 Mr 4 '25
How to get lump coal in place of slack. il Coal Age 25:765-6 My 22 '24
Hutton blasting gun newest device for shot-firing. il Coal Age 28:153 Jl 30 '25
Interesting history of the blasting cap. N. I. Steers. diag Eng & Contr (Ry) 63:351-5 F 18 '25
Large blast using tunnel method. il Concrete (cement mill sec) 27:85 N '25
Methods of blasting in front of the shovel. il Eng & Contr (G C) 63:1090-1 My 20 '25
Quarry blast at Signal mountain. R. L. McKnight. il Concrete (cement mill sec) 26: 56-7 Ap '25
Quarry blast loosens 2,000,000 tons of rock. il plan Eng & Min J 117:897 My 31 '24
Recent developments in blasting. J. R. St Clair. Munic & Co Eng 68:172-5 Ap '25
Recent developments in open-pit mining. R. Marsh, jr. il Eng & Min J 119:645-7 Ap 18 '25
Reducing blasting costs by tamping holes with clay. J. MacDonald. Eng & Contr (Ry) 61:137 Ja 16 '24
Removing bridge pier by blasting. Eng & Contr (G C) 64:171-2 Jl 15 '25
Rheostat for testing blasting machines. il diag Eng & Contr (Equip R) 62:963-4 O 29 '24
Secondary blasting methods. J. B. Stoneking. Concrete 25:sup47-8 S '24
Springing bore holes. C: S. Hurter. Eng & Contr (Ry) 62:152-4 Jl 16 '24
Track protection in blasting. H. H. Hummer. il Eng & Contr (G C) 64:874 O 21 '25
Unusual blasting method. H. H. Hamilton. il Concrete (cement mill sec) 26:17-18 F '25
Use of explosives for shale blasting. E. Godfrey. diag Brick & Clay Rec 65:387 S 16 '24
Using dynamite to cut off concrete piles. A. G. Livingston. Munic Eng 65:282 D '23
Using rock dust in shotholes to lessen violence and increase lump coal. J. H. Horlick, jr. Coal Age 25:805-6 My 29 '24; Same abr. Min Cong J 10:329 Jl '24
Why did the shots explode prematurely? Coal Age 25:292 F 21 '24

See also Coal mines and mining—Explosives; Detonators; Dynamite; Explosives; Hydraulic mining cartridge; Mining engineering; Quarries and quarrying; Wrecking

Cost

Methods and costs of a small quarry blast. diag Eng & Contr (Ry) 62:127-8 Jl 16 '24

Safety devices and measures

Blasting within six feet of machinery. F. J. Byrne. il Factory 35:562 O '25
How dangerous ground currents were prevented and confidence of workmen regained. E. E. Jones. il Coal Age 26:574-6 O 23 '24
Low-voltage current proves safest for shooting. A. C. Watts. il Coal Age 28:314-15 S 3 '25
Precautions in blasting to avoid danger from stray electric currents. C: S. Hurter. Coal Age 27:284 F 19 '25
Preventing stray currents from detonating explosives. E. E. Jones. diags Coal Age 25: 239 F 14 '24

See also Coal mines and mining—Safety measures

Testing

Procedure of making tests to determine efficiency of different methods of blasting coal. J. E. Tiffany and C. W. Nelson. Min Cong J 10:330 Jl '24
Record L.O.X. blast at Pennsylvania quarry. F. W. O'Neil. il Eng & Min J 118:16-18 Jl 5 '24; Abstract. Eng N 93:36 Jl 3 '24
Research in blasting coal. J. E. Crawshaw. Min Cong J 10:327 Jl '24

BLASTOMYCOSIS
Blastomycosis as a complication of industrial accidents. R. M. Carter. J Ind Hygiene 5: 457-61 Ap '24

BLEACHERIES
Bancroft plant, Wilmington, background and vision for future. D. G. Woolf. il Textile World 66:3101-2+ N 29 '24
Middlesex probably oldest bleachery in country. Textile World 67:1496 F 28 '25
Southern bleachery, Taylors, S. C., nears completion. il Textile World 65:1013-14 F 2 '24

See also Bleaching machinery

Lighting

Lighting dye house and bleachery. A. K. Robertson. il Textile Col 47:90-3 F '25

Management

Advisory control at Dutchess bleachery. D. G. Woolf. il Textile World 66:3707-8 D 27 '24
Chemical control at Southern bleachery, inc. D. G. Woolf. il Textile World 66:2319+ O 25 '24
Direct contact keynote at Mt Hope bleachery. D. G. Woolf. il Textile World 66:1689+ S 27 '24
Increasing production through partnership with employes. B. M. Selekman. Textile Col 47:83-5 F '25; Same. Color Tr J 16:29-32 F '25
Preventing spoiled work in the bleachery and finishing department. H. D. Martin. Textile Col 47:94-5 F '25
Progress in bleachery organization. D. G. Woolf. Textile World 66:1107-8 Ag 30 '24
Sharing plant management with the workers. M. Van Kleeck. Chem & Met Eng 32:376-8 Mr '25; Same cond. Iron Age 115:273-4 Ja 22 '25

BLEACHERS. See Grandstands

BLEACHERS' association, limited
Improved results in a difficult year. Economist 100:1302-3 Je 27 '25

BLEACHING
Ammonia and ammonium salts in bleaching and dyeing. A. J. Hall. Am Dyestuff Rep 12:908-10+ D 17 '23
Bleaching action of hypochlorous acid. S. R. Trotman. Soc Chem Ind J 43:240 Jl 18 '24
Bleaching and finishing of laces. J. Richter. il diag Chemicals (Dyestuffs sec) 16:165-6 My 25 '25
Bleaching damage determined by methylene blue. Am Dyestuff Rep 13:347-8 My 19 '24
Bleaching equipment. J. F. Springer. il Color Tr J 13:101-5, 179-82; 14:26-9, 159-62 S, N '23, Ja, My '24
Bleaching of cotton goods mixed with silk. Am Dyestuff Rep 14:239-40 Ap 6 '25

BLEACHING—*Continued*
Bleaching of trade sulphate pulps and cotton with calcium hypochlorite solutions. A. Forster and S. A. Pearman. Soc Chem Ind J 44:233-41 My 15 '25
Bleaching rattan with liquid chlorine. Color Tr J 16:84-5 Mr '25
Bleaching textile fibers. I. Ginsberg. Textile Col 47:247-8+ Ap '25
Bleaching with peroxide. Textile Col 47:378 Je '25
Brief resumé on chlorine bleaching. Am Dyestuff Rep 13:478 Jl 14 '24
College men in the bleachery. M. W. Alling. Am Dyestuff Rep 13:77-80 F 11 '24
Continuous worm conveyors employed in the thick bleaching system. diags Cassier's Ind Management 11:108-9 F 21 '24
Dyes fast against bleaching. W. R. McKennon. Textile Col 47:383-4 Je '25
Evolution of bleaching. S. H. Higgins. Textile Inst J 14:T319-28, T441-6, T534-41; 15: T39-42, T43-52, T115-19 O '23-Mr '24
History of bleaching. S. H. Higgins. 176p Longmans '24
New bleaching agent—para toluol sulpho sodium chloramid. I. Ginsberg. Textile Col 46:496-9 Ag '24
New chlorine bleaching compound. B. DePuyster. Color Tr J 16:137-40 My '25
New compound for the bleaching of hats. M. N. Terpinas. Chemicals (Dyestuffs sec) 17: 41 Jl 20 '25
New laundry product for souring bleached goods. Color Tr J 15:50 Ag '24
Nitre cake for bleaching and dyeing. A. B. Norton. Textile Col 45:631-3, 706-11, 771 O-D '23
Peroxide bleaching. T: D. Ainslee. Am Dyestuff Rep 13:868-71 D 29 '24
Present situation in peroxide bleaching. Textile Col 47:635 O '25
Scientific washing. F. H. Guernsey. Am Dyestuffs Rep 13:249-52, 287-90, 325-6; 14: 663-4 Ap 21-My 19 '24, O 5 '25
Sodium peroxide as a bleaching agent. Am Dyestuff Rep 14:521-2 Ag 10 '25
Softening of water for bleaching and dyeing. W: S. Chester. Textile Col 45:767-70; 46:89-91, 294-7, 434-6, 631-4 D '23, F, My, Jl, O '24
Some problems in bleaching. P. Bean. Chemicals (Dyestuffs sec) 16:196-7 Je 22 '25
Temperature control in the dye house and bleachery. B. F. Wadsworth. Textile Col 45:103-6, 171-4+, 239-42, 307-10, 375-8, 511-15, 787-92; 46:171-5 F-Je, Ag, D '23, Mr '24
Use of silicate in bleaching. Color Tr J 15: 155-6 N '24

See also Chlorine; Decolorization; Desizing (textiles); Dyes and dyeing; Paper making—Bleaching; Sodium hypochlorite; Stains—Removal

Cost

Evolution of bleaching. S. H. Higgins. Textile Inst J 15:T43-52 F '24

Cotton

Bleaching and dyeing of cotton goods by the Thies method. E. Schmidt. Am Dyestuff Rep 13:708-11+ N 3 '24
Bleaching and dyeing of towelings. I. Ginsberg. Textile Col 47:701-2 N '25
Bleaching cottons; general instructions for whites and prints. F. Bean. Textile World 67:3551+ My 30 '25
Bleaching of cotton braids and tapes. J. M. Matthews. Color Tr J 16:111-14 Ap '25
Bleaching of cotton piece goods. W: F. Deady. diags Am Dyestuff Rep 13:1-4, 43-4+ Ja 14-28 '24
Bleaching yarn in package form. Color Tr J 15:124 O '24
Bucking dyed goods. I. Ginsberg. Textile Col 47:165-7 Mr '25
Cotton bleaching and finishing. S. H. Higgins. Soc Dyers & Col J 40:413-18 D '24
Cotton warp bleaching. J. L. Wade. Am Dyestuff Rep 12:843-6 N 19 '23
Electricity in boiling-out cotton. R. Sansone. diags Textile World 65:2119+, 2781+ Mr 29, Ap 26 '24
Faults in the bleaching, mercerizing and dyeing of cotton goods. H. R. Band. Chemicals (Dyestuffs sec) 17:121-2 N 9 '25
Handling cottons with rayon. R. W. Arrington. Textile World 68:2311+ O 17 '25; Same. Am Dyestuff Rep 14:726-8 N 2 '25
Importance of good scouring in the bleaching of cotton and linen fabrics. W: Kirk. il Textile Col 47:359-62 Je '25
Influence of hard water in the bleaching of knitgoods. J. M. Matthews. Color Tr J 14:57-8 F '24
Mohr's bleaching process. A. Kertesz. Soc Dyers & Col J 40:23-4 Ja '24
New cotton tests for thoroughness of bleach and identifying fibre. Textile World 65:3012 My 3 '24
Peroxide bleach for cotton. J. Pfleger. Soc Dyers & Col J 41:142 Ap '25
Pink shade on bleached duck. Textile World 66:1699+ S 27 '24
Producing dyed shades fast to bleaching. Am Dyestuff Rep 14:665-6 O 5 '25
Properties of bleached cotton. S. H. Higgins. Textile Col 46:562-5 S '24
Solvent extraction of cotton and linen as an adjunct to kier boiling and bleaching of these fabrics. W: Kirk. Textile Col 47: 427-30 Jl '25
Some research problems in cotton bleaching and dyeing; abstract with discussion. D. A. Clibbens. Soc Dyers & Col J 41:249-50 Jl '25

Linen

Improvement in bleaching of linen. C. Bochter. Color Tr J 15:91 S '24

Patents

Evolution of bleaching; the Tennant patent. S. H. Higgins. Textile Inst J 15:T39-42 Ja '24

See also Bleaching powder—Patents

Silk

Bleaching of Tussah silk. J. Pokorny. Soc Dyers & Col J 41:75 F '25
Features in modern silk dyeing. E. Cagliostro. Color Tr J 15:47-50, 84-7, 111-14, 157-61 Ag-O, D '24
Features in modern silk dyeing and bleaching. E. Cagliostro. Color Tr J 15:157-61 D '24

Silk, Artificial

Bleaching artificial silk stripes. P. Bean. Textile World 66:2357+ O 25 '24
Bleaching of artificial silk waste. I. Ginsberg. Textile Col 47:503-5 Ag '25
Bleaching of artificial silk waste. W. Kosche. Am Dyestuff Rep 14:650-2 O 5 '25

BLEACHING machinery
Bleaching equipment. J. F. Springer. il Color Tr J 14:159-62 My '24
Monel metal for dyeing, bleaching and finishing equipment. R. J. McKay and E. A. Turner. il Am Dyestuff Rep 13:54-62 Ja 28 '24
Piling machine for kier in bleach house. diag Color Tr J 14:198 Je '24

BLEACHING materials
Bleach production in 1923 almost doubled 1921 record. Oil Paint & Drug Rep 107:68 F 2 '25
Bleaching and washing compound. B. S. Summers. Chemicals (Dyestuffs sec) 17: 102 O 12 '25
Bleaching compounds. T: H. Norton. Chemicals 24:11+ O 19 '25

See also Bleaching; Bleaching powder

Manufacture

Electrolytic alkali and bleach. il Chem & Met Eng 31:65-6 Jl 14 '24

BLEACHING powder
Bleaching powder explosions. A: H. Gill. Ind & Eng Chem 16:577-8 Je '24
Chemical and material markets in 1923. Chem & Met Eng 30:106 Ja 21 '24

BLEACHING powder—*Continued*
Concentrated bleaching compounds in stable form; French patent. Color Tr J 16:28 Ja '25
Higher prices marked sales of bleaching powder, 1924. Chem & Met Eng 32:133-4 Ja 19 '25
Survey of products that afford industrial outlets for chlorine. P. S. Brallier. Chem & Met Eng 30:508-9 Mr 31 '24
See also Calcium hypochlorite

Manufacture

Canadian salt company's processes for the manufacture of alkali-chlorine products. D. A. Pritchard and G. E. Gollop. il diag Ind & Eng Chem 16:1061-2 O '24; Same. Can Chem & Met 8:213-14 S '24; Same. Soc Chem Ind J (Chem & Met) 44:244-6 Mr 6 '25
Chloride of lime manufacture. O. Nydegger. diags Chem & Met Eng 29:1141-2 D 24 '23
Making bleach by the Beckman method. Chem Rec Age 23:10 Ap 20 '25
Manufacture of high grade bleaching powder; abstract. M. Matsui and H. Suzuki. Soc Dyers & Col J 40:337 O '24

Patents

Bleaching-powder solutions; patent. Chem Age 32:102 F '24

BLEEDING, Prevention of
How to control serious bleeding. G. R. G. Fisher. il Nation's Health 7:678-80 O '25

BLIND
Aid to blind through Pennsylvania Bureau of rehabilitation. Monthly Labor R 19:1199 N '24
The blind in industry; fifty years of work and wages. B. Purse. 109p Edson (printers) ltd., London '25
Giving the blind a chance in industry. J: A. Kratz. Nat Safety N 9:39-40 Je '24
Radio and the blind. W. H. McDonald. il Radio N 7:146+ Ag '25

BLINDNESS
Program for state activity in prevention of blindness. L: H. Carris. Nation's Health 6: 773-4 N '24
See also Eye—Diseases and defects; Eye—Injuries

BLOOD
Preparation of Brilliant Congo R (vital red) and the suitability of various samples of vital red for blood volume work. S: Palkin and H. M. Evans. Am Chem Soc J 47:429-34 F '25

Analysis

Pyrotannic acid method for the quantitative determination of carbon monoxide in blood and in air. R. R. Sayers and W. P. Yant. U S Bur Mines Tech Pa 373:1-18, pl 1-2 '25

BLOOD pressure
Blood pressure: what affects it? A. Hunter. Econ W n s 27:21-5 Ja 5 '24

BLOOMING mills. See Rolling mills

BLOTTERS
Blotter advertising for contractors. il Sheet Metal Worker 16:612-13+ S 25 '25
How one printer cashes in on advertising blotters. F. H. Williams. Inland Ptr 74:562 Ja '25
Little flyer in blotters. K. H. Bergen. Inland Ptr 74:413 D '24
Results of the blotter contest. H. Hillman. Inland Ptr 74:87-8 O '24
Small, hard-working blotter. S. W. Meader. il Ptg Art 43:427-31 Jl '24
We find out why our blotters pay. System 47: 626+ My '25

BLOWERS
Application of fans and blowers to the clay-working plant. C. V. Saunders. il Brick & Clay Rec 65:470 S 30 '24
Blower for drafting locomotives in engine-house. il diag Ry Mech Eng 99:388-9 Je '25
Blower formulae. Sheet Metal Worker 16: 591+ S 11 '25
Gas blowing engines at the Barrow hematite steel company's works. il Engineering 118: 830 D 19 '24
Instructions for the operation, care, and repair of blowers. 15p U.S. Bur. of engineering, Washington '24
Making blower fitting for fan work. W: Neubecker. Sheet Metal Worker 15:237, 539+, 865 Ap 25, Ag 1, D 5 '24
New fan for manhole ventilation. il Sci Am 131:331 N '24
Reconstruction of blast-furnace blowing engines. W. Benedict. il Power 60:290-1 Ag 19 '24
Rotary high pressure blower. E. D. Johnston. Am Gas J 120:216-17+, 567 Mr 8, Je 21 '24
Turbo aspirators in gas works and coke oven plants. E. Blau. il Gas Age 56:607-8 O 24 '25
See also Blast furnaces; Fans, Mechanical; Gas exhausters; Mechanical draft; Mine ventilation; Ventilation

Lubrication

Best oil for blow engines. J: B. Rathbun. Pet Age 14:58 D 1 '24

BLUE
Black and blue. W. D. Bancroft. J Phys Chem 28:715-19 Jl '24
Blue cotton dyestuff discovered by Du Pont's research department. Color Tr J 16:75 Mr '25
Blue dyestuffs; tables. Soc Dyers & Col J 41: 132-3 Ap '25
Dyeing navy blue on woolen goods. J. M. Matthews. Color Tr J 16:45-8 F '25
Manufacture of blue indanthrene dyes. A. Kranzlein and others. Chemicals (Dyestuffs sec) 17:61-2 S 14 '25
New chrome dyestuff from diaminobenzhydrol. Color Tr J 16:74 Mr '25
New mordant dyestuffs from amino-oxycarboxylic acids combined with quinones. Color Tr J 16:72 Mr '25
Recognition of blue. W. D. Bancroft. J Phys Chem 28:131-44 F '24
See also Hydron blue; Indanthrene blue; Indigo; Methylene blue; Prussian blue; Tyndall blue; Ultramarine blue

BLUE lead
Methods of analysis of sublimed blue lead. Am Soc T M Standards 1923:83-4

BLUE powder
Oxidation of zinc vapor by carbon dioxide. B. M. O'Harra. diags U S Bur Mines Tech Pa 336:1-22 '24

BLUE prints. See Blueprints

BLUE sky laws. See Securities—Law

BLUE water gas. See Gas, Water

BLUEPRINTING machinery
Precision blue print washing and drying machine. il Engineer 139:523 My 8 '25

BLUEPRINTS
Blue-print reading and shop sketching for the metal trades. H. C. Givens. 120p Wiley '24
Blueprint reading for the machine shop and related trade. J. Brahdy. 108p Van Nostrand '23
Effect of brown and blue print sensitizing materials on physical properties of paper. T. D. Jarrell and F. P. Veitch. Paper Tr J 78:45-7 Ap 24 '24
How can blueprints be made to adhere to celluloid? Mach 30:718-19 My '24
Reading blueprints. J. K. Shallenberger. 59p Manual arts press '24
Relieving the blueprint and photostat burden. C. E. Hunter. Am Mach 60:43-4 Ja 10 '24
See also Black prints

BOARD, Paper. See Paper board

BOARD of tax appeals. See United States—Board of tax appeals

BOARDS of trade. See Chambers of commerce

BOARDWALKS

Lighting

Relighting Atlantic City's boardwalk. T. P. Brown. il diags Gen Elec R 27:803-9 D '24

BOAT races
Oxford and Cambridge boat race. J. B. Walker. il Sci Am 132:368-70 Je '25

BOATS
Air propeller driven boats beat express trains. Marine Eng 29:435 Jl '24
Collet folding boat. il Engineering 118:843 D 19 '24

See also Barges; Canal boats; Dredges; Ferryboats; Fire boats; Flying boats; Freight ships; House boats; Lifeboats; Motor boats; Shipbuilding; Ships; Steamboats; Submarine boats; Torpedo boats; Towboats

BOATS, Electric. See Electric boats

BOBBINS
Bobbins for filling-wound warps. il Textile World 68:225 Jl 11 '25

BODLEIAN library
Architecture, vellum and parchment. F. S. Campbell. il Am Inst Arch J 12:39-42 Ja '24
Bodleian library and its founder. il Inland Ptr 72:433-4 D '23

BODLEY, Sir Thomas, 1544-1612
Portrait. Inland Ptr 72:433 D '23

BODY heat. See Temperature, Animal and human

BOHEMIA

See also Gold mines and mining—Bohemia

BÖHLER brothers & company, Austria
Böhler steel. H: Obermeyer and A. L. Greene. il Blast F & Steel Pl 12:281-4 Je '24

BOILER cleaning
Boiler flue cleaning; a vacuum cleaner for power stations. il diags Electrician 93:696-7 D 19 '24
Boiler flue cleaning plant. il diags Engineer 137:520 My 9 '24
Cleaning tubes in waste-heat boilers. E. L. Davis. Power Pl Eng 28:1195 D 1 '24
How much fuel does a clean boiler save? Sanitary & Heat Eng 102:119-20 Ag 22 '24
Mechanical flue cleaning appliance. Chem Age (Lond) 11:549 N 29 '24
Mechanical means for cleaning locomotive flues. C. B. Smith. Ry Mech Eng 99:461-2 Jl '25
Nervous water lines in steam boilers. A. G. King. diags Dom Eng 111:26-7+ Je 13 '25
Sand blast to clean boiler surfaces. Power 62:607 O 20 '25
Speeding up the boiler cleaning by posting routine to be followed. W. E. Thompson. Power 61:620 Ap 21 '25

See also Soot blowers

BOILER code. See Boilers—Laws and regulations; Boilers—Standards

BOILER compounds. See Feed water purification

BOILER explosions
Account of a boiler explosion at Reisholz, Germany. diag Locomotive 35:11-15 Ja '24
Automatic appliances cause many accidents. E. H. Vaux. Locomotive 35:147 Ja '25
Boiler explodes while being tested. il Power 59:386 Mr 4 '24
Boiler explosion at Loreauville, Louisiana. il Locomotive 35:51+ Ap '24
Boiler explosion statistics, 1922-1924. Power 62:153 Jl 28 '25
Boiler explosion statistics, August and September. Power 62:665 O 27 '25
Boiler explosions. Published in quarterly numbers of Locomotive
Cause and effect of range-boiler explosions. W: A. Bradford. il diags N E Water Works Assn J 37:406-23 D '23
Cause of the Mackinac explosion. il diags Power 62:307-8 Ag 25 '25
Die dampfkesselexplosionen im deutschen reiche während des jahres 1923. Zeit Ver Deutsch Ing 68:1167 N 8 '24
Die dampfkesselexplosionen im deutschen reiche während des jahres 1924. Zeit Ver Deutsch Ing 69:866 Je 27 '25
Explosion of a rotary boiler in the plant of the Lincoln paper mills, ltd., Merritton, Ontario. il Locomotive 35:172-4 Ap '25
Explosions in electric steam boilers. Power 60:152, 587 Jl 22, O 7 '24
Hot water heating boiler explosion in a St Louis residence. Locomotive 35:2-3 Ja '24
Indiana tractor boiler explodes. il Power 62:404 S 15 '25
Lap-seam boiler explosion kills three. Power 60:383 S 2 '24
Legal aspects of boiler explosions. A. L. H. Street. Power 60:823 N 18 '24
Responsibility for boiler explosions. A. L. H. Street. Power 61:711 My 5 '25
Safety valve fails to work—boiler explodes at Vida sugar refinery. il Power 58:925, 1039 D 4, 25 '23
Shortness of water and overheating in steam boilers. T. H. Fenner. Power 59:144-5 Ja 22 '24; Discussion. R. McLaren. 59:419 Mr 11 '24
Small boiler explosion emphasizes need for supervision. H. B. McDermid. Power 61: 343 Mr 3 '25
Steamboat inspection service probes Mackinac explosion. il Power 62:348-9, 387 S 1-8 '25
Zur klarstellung der gefährlichkeit des dampfkesselbetriebes in der letzten zeit. C. Bach. Zeit Ver Deutsch Ing 69:35 Ja 10 '25

See also Locomotive boiler explosions

BOILER feed pumps. See Pumps, Feed water

BOILER furnaces. See Furnaces, Boiler

BOILER inspection
Boiler inspection in Holland. H. W. Los. Power 62:6 Jl 7 '25
First Hartford inspection. Locomotive 35:105-7 O '24
Proposed rules for the inspection of material and boilers. Mech Eng 46:100-3 F '24
Summary of inspectors' work for 1924. Locomotive 35:183 Ap '25
Value of inspections. il Locomotive 35:67-70, 139-42 Jl '24, Ja '25

See also Locomotives—Inspection

BOILER plants
Advance in steam-boiler practice in anthracite region. M. M. Price. diags Coal Age 24: 767-72 N 22 '23; Abstract. Mech Eng 46:48 Ja '24
Air preheaters. C. W. E. Clarke. diags Mech Eng 47:175-8; Discussion. 178-83 Mr '25; Abstract. Power 61:486-9 Mr 31 '25
Boiler plant of the Ludlum steel co., Watervliet, N.Y. il diag Power 62:168-70 Ag 4 '25
Boiler-room practice. J: Bruce. Elec R (Lond) 94:324-5, 365-7, 564-6, 736-8, 809-11 F 29-Mr 7, Ap 11, My 9-16 '24
Burning anthracite in a modern steam plant. E. E. Rowe. il diags Power 60:292-4 Ag 19 '24; Discussion. Power 60:429, 661 S 9, O 21 '24
Calculation of the boiler heat balance. charts Power Pl Eng 28:991-5 O 1 '24; Discussion. E. Ogur. 28:1267-8 D 15 '24
8000 B. hp. for Standard oil co. il diags Power Pl Eng 29:172-7 F 1 '25
Future trend of boiler plant design. T: E. Murray. Elec W 86:649-51 S 26 '25
Generation and utilization of steam in the iron and steel industry. J: A. Hunter. diags Mech Eng 46:325-8+ Je '24; Same cond. Power 59:921-2 Je 3 '24; Discussion. Mech Eng 46:462+ Ag '24
Idea of heat balance. Power 59:266 F 12 '24
Increasing power to meet demands. F. H. Moyer. il Management & Adm 10:41-3 Jl '25
Making a power-plant heat balance. T: Maynz. diag Power 59:450-2 Mr 18 '24
Making boilers scavenge their own dust and gases. H. C. Russell. diags Heat & Ven 22: 92-3 Jl '25
New boiler plant for Chester gas works. il diags plan Power Pl Eng 29:147-50 Ja 15 '25
New boiler plant of Byproducts coke corporation. il diag Power 62:196-9 Ag 11 '25

BOILER plants—*Continued*
New boiler plant saves tannery $10,000 a year. il Power 62:274-6 Ag 25 '25
New station for Detroit Edison co. A. K. Bak and R. B. Purdy. il diags Power Pl Eng 28:579-85 Je 1 '24
Power plant of the Detroit lubricator company. C. K. Little. il Power 59:316-17 F 26 '24
Power problems of Macy's department store. il plans Power Pl Eng 27:1215-20 D 15 '23
Power station of the British Empire exhibition. diags Engineering 117:363-4 Mr 21 '24
Present practice in steam generation in the United States. D. S. Jacobus. diags Mech Eng 46:626-8 O '24
Remodeling a large boiler room. il diags plan Power Pl Eng 28:221-5 F 15 '24
Standard of Ohio embodies latest ideas in two new boiler plants. P. Truesdell. il Nat Pet N 17:76+ Je 10 '25
Steam boiler and steam power installations in Canadian paper mills. B. F. Haanel. diags Paper Tr J 79:123-5 O 30 '24
Steam generation; an important process. il Chem & Met Eng 32:292 F 16 '25
Steam plant of Fisher body corporation. C. K. Little. il Power 60:240-3 Ag 12 '24
Steam-raising problems. A. B. Mallinson. Cassier's Ind Management 11:367-8 Jl '24
Supports for superimposed stacks. W. W. Clifford. diags Boston Soc C E J 12:221-31 My '25
To regulate fuel expense, control draft. J. T. Beard. Power Pl Eng 28:331-4 Mr 15 '24
Unusual blast furnace boiler plant. G: G. Crawford. diags plan Blast F & Steel Pl 12:77-80 Ja '24
Utilisation of low-grade and waste coals in power production. W. S. Coates. diags Soc Chem Ind J 43:157-63; Discussion. 163 My 23 '24

See also Boilers; Draft; Feed water regulators; Steam plants

Costs

Earning value of power plant instruments. C. D. Zimmerman. Power Pl Eng 28:596-7 Je 1 '24

Employees

Bonus system for firemen. W. Weaver. Power 59:337-8 F 26 '24
Bonus systems. J. H. Damon. Power 61:121 Ja 20 '25

Equipment

Big little things in power plant practice. R. B. Williams. Gas Age 55:861-2 Je 20 '25
Boiler and turbine room instruments. Power Pl Eng 29:283-5 Mr 1 '25
Boiler feed system in sugar refinery. C. C. Brown. plan Power Pl Eng 28:428-31, 482-5 Ap 15-My 1 '24
Boiler house instruments. Cassier's Ind Management 12:380+ Jl '25
Boiler instrument and control boards. W. R. Pender. il Power 59:129 Ja 22 '24
Boiler-room load indicator operated from metering heater. C. H. Harris. diag Power 60:143 Jl 22 '24
Boilers and boiler auxiliaries. Power 59:6-9; 61:3, 6-8 Ja 1 '24, Ja 6 '25
Boilers at Cleveland rate 3060 hp. il diags Power Pl Eng 28:517-24 My 15 '24
Centralized combustion control in Lowellville. J. F. Shadgen. il plan Power 59:676-9 Ap 29 '24
Control of boiler room operation. E. G. Bailey. diag Power Pl Eng 28:1095-7 N 1 '24
Draft control for cutting down boiler losses. R. June. diag Gas Age 52:763-5 D 22 '23
Earning value of power plant instruments. C. D. Zimmerman. Power Pl Eng 28:596-7 Je 1 '24
Electrical system of combustion control for boiler plants. diags Power 59:46-8 Ja 8 '24
Electromagnetic manometer. il diags Power 61:628 Ap 21 '25
Executive and his power department. M. Sampson. Textile World 66:85+ Jl 5 '24
Fuel and water testing; details of an all electric power station laboratory. J: Bruce. il Electrician 92:68-9 Ja 18 '24
Fundamentals of combustion control. E. G. Bailey. il diag Power Pl Eng 28:1044-8 O 15 '24; Same cond. Power 60:667-8 O 21 '24
Gilson efficiency meter. il diag Engineering 116:558-9 N 2 '23
High pressures affect boiler accessories. il diags Power Pl Eng 28:1191-5 D 1 '24
Increasing boiler economy by modern methods. H. K. Blanning. il Power Pl Eng 28:1236-43 D 15 '24
Indicating generator load in boiler room. R. L. Frisby. il diag Elec W 84:419 Ag 30 '24
Instruments as an aid to boiler operation. Power 60:472 S 16 '24
Measuring sticks for management. C: L. Hubbard. il Factory 34:934-8+ Je '25
Meter types and their characteristics. C. D. Zimmerman. Power Pl Eng 28:696-8 Jl 1 '24
Modern boiler-room instruments. J. Wolf. Paper 34:514-15 Jl 10 '24
Motor applications in the boiler room. H. W. Smith. il Power Pl Eng 28:700-3 Jl 1 '24
Philadelphia A.S.M.E. discusses automatic combustion control. Power 60:920 D 2 '24
Power plant exhibits at Wembley. J: B. C. Kershaw. il diags Power 60:82-6 Jl 15 '24
Power-plant instruments. R. S. Reed. il diag Power 61:769-74 My 19 '25; Discussion. 62: 66, 377, 736 Jl 14, S 8, N 10 '25
Proper steam control effects an annual saving of $6,388 and improved weaving results. diag Textile Col 47:725-6 N '25
Recording instruments as an aid to boiler-room accounting. H. W. Morgan. Factory 33:396+ S '24
Use of combustion control devices increases. R. J. S. Pigott. il Power Pl Eng 28:1199-1203 D 1 '24
Value of instruments for high-grade boiler room operation. H. H. Bates. Power 58: 988-9 D 18 '23; Same. Gas Age 53:353-4 Mr 22 '24
Weir heat regeneration system. plan Power 61:208 F 10 '25

See also Carbon dioxide recorders; Feed water heaters; Feed water regulators; Fuel economizers; Steam accumulators; Stokers, Mechanical

Layout

Heating, plumbing, and ventilating the Straus building. E. W. Riesbeck. Dom Eng 109:26 N 22 '24

Lighting

Illumination of gage glasses. L. R. Gray. diags plan Power Pl Eng 29:1045-7 O 15 '25

Management

Betriebsüberwachung in kesselanlagen; abstract. W. Quack. diags Stahl & Eisen 45: 947-9 Je 11 '25
Boiler-house control methods. C: F. Wade. diags Elec R (Lond) 95:388-9 S 12 '24
Boiler-house efficiency. J. T. Beard, 2d. il Power 59:168-70 Ja 29 '24
Boiler-room practice. J: Bruce. Elec R (Lond) 95:669-72, 964-6; 96:31-2, 71-2, 111-12, 149-50 O 31, D 26 '24-Ja 23 '25
Boiler room records turned into profits. H. W. Morgan. Power Pl Eng 28:1138-9 N 15 '24
Can flue loss be eliminated? Power 60:68 Jl 8 '24
Combustion problems analyzed. T: A. Marsh. Can Eng 45:567-8 D 11 '23
Cutting costs in the boiler plant. W. S. Cramer. Eng & Contr (W W) 63:542-3 Mr 11 '25
Das dampfkesselwesen in den Vereinigten Staaten von Amerika; personalbedarf und betriebskosten. F: Münzinger. il Zeit Ver Deutsch Ing 69:894-8 Jl 4 '25
Economical limits of boiler loading. C: F. Wade. Elec R (Lond) 93:687-8 N 9 '23
Economy in the generation and utilization of steam. C: F. Wade. Soc Chem Ind J (Chem & Ind) 43:1098-1100, 1204-7; 44:49-51 N 7, D 5 '24, Ja 16 '25
Economy of fuel through intelligent operation. H. H. Norton. Power 59:231 F 5 '24
Effective control of boiler plant. Cassier's Ind Management 11:48+ Ja 24 '24

BOILER plants—Management—*Continued*
Examples in building up boiler efficiency. R. C. Demary. chart diag Power Pl Eng 27: 1133-4 N 15 '23
Executive and his power department. M. Sampson. Textile World 65:3803+; 66:85+ Je 7, Jl 5 '24
Extracts from an operating code. Elec W 82: 974 N 10 '23
Factors affecting priming of steam boilers. C. E. Joos. Power Pl Eng 29:377-82 Ap 1 '25
Fuel economy at Southern Pacific power plants. Ry Age 78:284-5 Ja 24 '25; Same cond. Ry Mech Eng 99:94 F '25
Fuel economy in small plants. L. B. Shields. Power 61:740-1 My 12 '25
Fuel economy questions. H. Womersley. Soc Chem Ind J (Chem & Ind) 43:715-18 Jl 11 '24
Fuel waste in the paper mill. J. T. Beard. Paper 33:9-11 Ja 10 '24
How a large saving was made in a small boiler plant. A. F. Sheehan. Power 60:698 O 28 '24
How $250,000 was saved per year in boiler-plant operation. G. D. Spackman. Power 58:785; Discussion. 785-6 N 13 '23
Improved operation of stoker fired furnace. Power Pl Eng 29:477 My 1 '25
Increasing boiler economy by modern methods. H. K. Blanning. il Power Pl Eng 28: 1236-43 D 15 '24
Loading the boilers to obtain maximum efficiency. C: E. Colburn. Power 60:642-3 O 21 '24
Locating and reducing excessive use of boiler fuel in small gas plants. C. L. C. Kah. Am Gas J 121:1084-5+ O 18 '24; Same. Gas Age 55:39-40 Ja 10 '25
Management and mismanagement of steam boilers. M. M. Brown. Power 58:957-8 D 11 '23
Mechanical stokers. R. June. il Blast F & Steel Pl 12:385-8 Ag '24; Same. Gas Age 54: 113-16 Jl 26 '24
Modern systems of boiler control. J: B. C. Kershaw. Engineer 137:141-4 F 8 '24
More power with less coal at Saxony mills plant. plan Power 58:773-4 N 13 '23
New boiler reduces coal consumption by two carloads a week. P. Truesdell. Nat Pet N 17:67-8+ Je 3 '25
Operation of steam boiler plants. E. B. Ricketts. Power Pl Eng 28:749-51 Jl 15 '24
Possible economy in energy production discussed at A.S.M.E. meeting. Elec W 82: 1212-14 D 15 '23; Power 58:944-6 D 11 '23
Power plant equipment and management. Cassier's Ind Management 11:15-16+ Ja 10 '24
Power-plant improvements earn 500 per cent for Southern Pacific. C. M. Barbour. il Power 61:1016-18 Je 30 '25
Power plant management; efficient combustion practice. R. June. Blast F & Steel Pl 11:546-50, 610-13, 652+; 12:134-6 O-D '23, F '24; Same (pt 1). Gas Age 52:439-42 O 13 '23; Textile World 64:2867-8+ N 10 '23
Power problems of vital interest to executives. J. T. Beard. il diags Ind Management 66: 46-52, 170-6, 355-60 Jl, S, D '23
Revamping plant cuts coal bill 100 per cent. il plan Power Pl Eng 29:1012-14 O 1 '25
Ridding our mills of painted ships. R. B. Williams. il Rubber Age 17:269-70 Jl 25 '25
Saving money in boiler room. H. H. Ferris. Gas Age 53:103-4 Ja 26 '24; Same. Am Gas J 120:96+ F 2 '24
72% efficiency and good will; economy plus employee satisfaction in a small power plant. H. Brunner. il charts Management & Adm 9:125-7 F '25
Steam—economy of generation and utilization. C. A. Schlegel. Gas Age 55:293-5+ F 28 '25
Stop the leaks. A. R. Knapp. Power Pl Eng 28:715 Jl 1 '24
Suggested rules for the care of power boilers. Mech Eng 47:371-8 My '25; Same abr. Power 61:847-8 My 26 '25
Water treatment for continuous steam production. R. E. Hall. il Mech Eng 46:810-17 pt 2 N '24

See also Boilers—Control

Records

Boiler-room logs. E. C. Bliss. Power 60:909 D 2 '24
Boiler room records turned into profits. H. W. Morgan. Power Pl Eng 28:1138-9 N 15 '24
Importance of boiler plant records. F. M. Gibson. Ind Management 69:86-8 F '25
Increasing boiler economy by modern methods. H. K. Blanning. il Power Pl Eng 28: 1236-43 D 15 '24
Some practical comments on power-plant logs. W: E. Gray. Power 61:643-5 Ap 28 '25

Safety devices and measures

Eliminating dangerous conditions in the power plant. diag Power 61:741, 919 My 12, Je 9 '25
Fire precautions for pulverized fuel plants. Power Pl Eng 28:641-3 Je 15 '24

Testing

Graphic voltmeters used for boiler-plant tests. L. N. Van Hook. diag Power 62:455 S 22 '25
Les règles à adopter dans les essais et les comptes rendus d'essais de chauffage. Génie Civil 84:503-4 My 24 '24

See also Boilers—Testing

BOILER plates
Brittleness and cracks in seams of steam boilers. H. Kriegsheim. il diags Power Pl Eng 28:792-5 Ag 1 '24
Caustic embrittlement of boiler plate. Mech Eng 47:942 N '25
Die kesselbaustoffe. P. Goerens. il Zeit Ver Deutsch Ing 68:41-7 Ja 19 '24
Why A.S.M.E. code prohibits punching and shearing. il Power 60:982; 61:61 D 16 '24, Ja 13 '25

Manufacture

Electrically produced boiler plate. il Electrician 93:614-15 N 28 '24

Testing

Action of caustic soda on boiler steel; preliminary report of M.I.T. experiments. R. S. Williams and V. O. Homerberg. il diag Power 59:608-10 Ap 15 '24; Same. Chem & Met Eng 30:589-91 Ap 14 '24
Ageing of boiler plates does not affect tensile strength. Power 58:1044-5 D 25 '23
Flow in a low-carbon steel at various temperatures. H. J. French and W. A. Tucker. il diags U S Bur Stand Tech Pa 296:619-40 '25
Riveting stresses in boiler plates. R. Baumann. Engineer 140:sup124-5 Ag 28 '25; Discussion. R. C. Kirkwood. 140:294 S 18 '25
Testing of boiler plates. C: L. Huston. diags Power 59:820-2 My 20 '24
Untersuchungen an dicken kesselblechen. R: Baumann. il Zeit Ver Deutsch Ing 69:743-6 My 30 '25
Versuche über die widerstandsfähigkeit und formänderungen von kesselböden. C. Bach. diags Zeit Ver Deutsch Ing 69:367-8 Mr 21 '25; Abstract (Tests of dished heads for boilers). Power 61:731 My 12 '25

BOILER scale
Apparatus for preventing boiler scale; British Empire exhibition. il diags Engineering 117:623 My 9 '24
Apparatus for prevention of scale formation. diag Power Pl Eng 29:412 Ap 1 '25
Appareil Filtrator, pour la suppression des incrustations dans les chaudières à vapeur. diag Génie Civil 84:410 Ap 26 '24
Boiler scale is prevented by use of electric current. Sanitary & Heat Eng 102:309 O 31 '24
Chemistry of interior boiler water treatment. E. M. Partridge. Am Water Works Assn J 12:288-94 N '24
Corrosion and scaling in modern boiler practice. Chem Age (Lond) 10:sup26-7 Ap 5 '24

BOILER scale—*Continued*
Electrolytic protection of boilers; Renger-Fuhrman process; abstract. H. Manz. Mech Eng 46:636-7 O '24
Electrolytic scale prevention. il Blast F & Steel Pl 13:414-15 O '25
Formation of boiler scale. Power Pl Eng 28: 874, 1017 Ag 15, O 1 '24
Keeping boilers permanently free from scale. W. J. Hughes. il Gas Age 55:637-40, 673-5 My 2-9 '25
Prevention of scale in boilers; patent. E. A. Heberlein. Soc Dyers & Col J 41:70 F '25
Pure water yields boiler profits. F. Juraschek. il diags Ind Management 70: 225-9 O '25
Relation between boiler scale and train speed. P. M. LaBach. chart Ry Age 76:1279-80 My 24 '24
Removal of scale with carbon dioxide. C: L. Jones. Power 60:578-9 O 7 '24
System of boiler water treatment based on chemical equilibrium. R. E. Hall. diag Ind & Eng Chem 17:283-90 Mr '25

See also Boiler cleaning; Feed water purification

BOILER tubes
Befestigung und haften von heiz- und wasserröhren in kesselrohrwänden. O: Berndt. diags Zeit Ver Deutsch Ing 68:809-10 Ag 2 '24
Le cintrage et la vérification des tubes des chaudières Ladd-Belleville. diag Génie Civil 84:480-1 My 17 '24
Efficiency of reinforced tube ligaments. G. H. Stickney and B. C. Cruickshanks. diags Locomotive 35:131-8 Ja '25
Kesselrohre für hohe dampfleistungen. B. Schulz. Zeit Ver Deutsch Ing 69:834 Je 20 '25
Slag formation in tubes of powdered-coal-fired boilers. J. G. Coutant. diags Power 61:987-8 Je 23 '25
Die wirkung von einbauten in flammrohrkesseln. H. Jordan. Stahl & Eisen 44:1084 S 4 '24
Would copper tubes transmit more heat? diags Power 61:708-9 My 5 '25

See also Boiler cleaning; Boilers—Failures; Soot blowers

Manufacture

Manufacture of condenser and locomotive tubes. A. Cameron. Engineer 140:250 S 4 '25
New plant rolling charcoal iron. il diag Iron Age 115:1486-8 My 21 '25
Producing charcoal iron tubes. G. H. Woodroffe. il Iron Tr R 74:482-7 F 14 '24
Replaces forge plant with charcoal bloomary. E. C. Kreutzberg. il Iron Tr R 76:1319-21 My 21 '25

Repair

How small leaks in the boiler tubes were stopped temporarily. F. E. Bescoby. diags Power 62:180 Ag 4 '25

BOILER water. See Feed water

BOILERS
Adaptability of vertical tubular boilers. diags Power Pl Eng 28:24-6 Ja 1 '24
American internally fired boiler; developed by James N. Seymour. diag Power 61:732 My 12 '25
Another internally fired boiler. C. M. Garland. diag Power 62:146-7 Jl 28 '25
Atmos high-pressure boiler. il diags Engineering 120:538-40 O 30 '25; Engineer 139: 249 F 27 '25
Becker generator produces steam from water spray. F. Lang. diags Power Pl Eng 29:893 S 1 '25; Abstract. Mech Eng 47:855-6 O '25
Berechnung der blechdicke gewölbter, mit krempe versehener böden nach den Hamburger normen. A. Huggenberger. diags Zeit Ver Deutsch Ing 69:159-62 F 7 '25
Boiler designers should study the history of art. C: R. King. Power 61:227-8 F 10 '25
Boiler economies for coal men exhibited at power show. Coal Age 26:864 D 18 '24
Boiler installation economy. W. H. Fittus. Power Pl Eng 28:253 F 15 '24
Boiler with 1200-pound steam pressure. Sci Am 130:112 F '24
Boilers and boiler auxiliaries. Power 59:6-9; 61:3, 6-8 Ja 1 '24, Ja 6 '25
Catechism of central station gas engineering in the United States. diags Am Gas J 120: 507-10, 531-4 My 31-Je 7 '24
Characteristics of steam boilers. R. H. Parsons. Engineering 119:379-81 Mr 27 '25; Correction. 119:518 Ap 24 '25
Chasing bubbles in a boiler; an outline of where steam forms in a boiler and the path of the water circulation. il diags Power 59: 288-9 F 19 '24; Discussion. 59:498, 615 Mr 25, Ap 15 '24
Chaudières à grande capacité pour centrales électriques. M. Demoulin. il diags Génie Civil 84:465-71 My 17 '24
Coal and oil fired boilers. F: J. Drover. 350p Chapman & Hall, ltd., London '24
Combined steam generator and accumulator to reduce banking losses. Z. Kogan. Power 62:144 Jl 28 '25
Combustion rates and efficiencies. D. C. Hess. Elec W 82:1224 D 15 '23
Concentration in boilers. G. D. Bradshaw. diags Eng Soc W Pa 41:105-18 My '25; Abstract. Mech Eng 47:755-6 S '25; Discussion. Eng Soc W Pa 41:119-23 My '25
Control of power production; the fundamental functions of a good boiler. C: L. Hubbard. il diags Factory 33:26-9+, 202-6+, 350-4 Jl-S '24
Das dampfkesselwesen in den Vereinigten Staaten von Amerika. F. Münzinger. il diags Zeit Ver Deutsch Ing 69:653-8, 773-8, 807-13, 840-4, 894-8, 961-3 My 9, Je 6-20, Jl 4, 18 '25; Discussion. 69:1088-93, 1160-4 Ag 15, S 5 '25
Das dampfkesselwesen und die technischen hochschulen. F. Döhne. Zeit Ver Deutsch Ing 68:310-12 Mr 29 '24
Development of high-pressure steam boilers. D. S. Jacobus. diags Power Pl Eng 27:1047-50 O 15 '23; Same. Engineer 136:400-1 O 12 '23; Same cond. Power 58:587-8 O 9 '23; Same cond. Iron Age 112:1385-6 N 22 '23; Excerpt. Elec W 82:699-701 O 6 '23; Abstract. Electrician 92:13 Ja 4 '24; Discussion. Elec W 82:817-18 O 20 '23
Developments in steam generator design. W. S. Findlay. Cassier's Ind Management 12: 306+ My '25
Diameters and heights of stacks for steam boilers. E. C. Fisher. il charts Am Soc Heat & V E J 29:717-29 D '23
E. Keeler co. builds new type boiler. il Power 61:548 Ap 7 '25
Edge Moor single pass boiler has built-in economizer. diags Power Pl Eng 29:1123-4 N 1 '25
Expansive movements in steam boilers. Cassier's Ind Management 11:309-10 My 29 '24
Findlay boiler; combination of water and fire tubes; abstract. diags Mech Eng 47:508-9 Je '25
First steel boiler made for Mechanics fair, Boston. D. M. Dillon. Power 59:637-8 Ap 22 '24
First world power conference—boilers and turbines. Power 60:206-7 Ag 5 '24
Great coal-fired power stations of the United States. W. H. Patchell. il diag Engineer 139:264-5 Mr 6 '25
Heat transmission and efficiency in steam boiler tubes. E. A. Fessenden. 48p (Eng. exp. sta. bul. 32) Pennsylvania state college, State College '24
High pressure of steam; recording instruments; combustion chambers. Cassier's Ind Management 11:85-6 F 7 '24
High-pressure steam in Germany; abstract. O. H. Hartmann. diags Mech Eng 46:219-20 Ap '24
High temperature boilers and engines. Engineer 137:337-8 Mr 28 '24
Höchstdruckdampferzeugung durch atmoskessel. E. Josse. il diags Zeit Ver Deutsch Ing 69:169-73 F 14 '25
Horizontal return tubular boilers. il diags plan Power Pl Eng 28:19-21 Ja 1 '24

BOILERS—*Continued*
How much does the water level drop? Power 60:853, 990; 61:228-9 N 25, D 16 '24, F 10 '25
Inefficient handling of field boilers source of waste and expense. F. G. D. Muller. il diags Nat Pet N 16:77-8+ Jl 16 '24
Internal combustion boiler. O. Brunler. il diags Soc Chem Ind J (Chem & Ind) 44:187-90 F 20 '25; Same cond. Chem Age (Lond) 12:150-1 F 14 '25; Abstracts. Engineer 139: 184 F 13 '25; Gas J (Lond) 160:598 Mr 11 '25; Power 61:379-80 Mr 10 '25; Power Pl Eng 29: 332-3 Mr 15 '25; Eng & Contr (W W) 63:773-4 Ap 10 '25; Mech Eng 47:358-9 My '25; Chem & Met Eng 32:510 My '25; Discussion. Chem Age (Lond) 12:174-5 F 21 '25; Power 61:664, 1000 Ap 28, Je 23 '25
Keeping the boiler in good condition. il Power Pl Eng 28:93-6 Ja 1 '24
1,200-lb. boiler and turbine at Weymouth. il diags plans Power 62:394-8 S 15 '25
Outline of boiler development. H. Webster. Refrig Eng 10:367-9 Ap '24
Overheating of steam boilers. Cassier's Ind Management 12:418 Ag '25
Physical side of concentration in boilers. R. W. Andrews. Power 61:37-8 Ja 6 '25; Discussion. W. A. Becker. 61:584-5 Ap 14 '25
Pittsburgh claims world's biggest boiler. Power 59:625 Ap 15 '24
Pittsburgh's giant boiler. Locomotive 35:114 O '24
Power and heating plants. J. J. Cosgrove. diags Arch Forum 42:230-4; 43:85-8, 214-18 Ap, Ag, O '25; Same abr. (pt 1). Eng & Contr (Bldgs) 63:1408 Je 24 '25
Les récentes dispositions des circuits d'alimentation des chaudières à vapeur. diags Génie Civil 83:619-23 D 22 '23
Reducing costs of steam generation. G: Van Tuyl. Power 60:1079 D 30 '24
Relation of boiler equipment to coal buying. D. Henderson. Power Pl Eng 29:473-5 My 1 '25
Der spannungszustand gewölbter böden. E. Höhn. diags Zeit Ver Deutsch Ing 69:155-8 F 7 '25
Stal boiler unit; abstract. diag Mech Eng 46: 903 D '24
Stanwood down-draft firebox boiler. il Power 59:504 Mr 25 '24
Steam boilers; a catechism. W. Hilleary. Power 59:58, 88, 138, 176, 214, 250, 283, 328, 363, 408, 452, 486, 532, 565, 606, 646 Ja 8-Ap 22 '24
Steam generation at extra high pressures. V. Blomquist. Power 60:745 N 4 '24
Strength of boiler parts. diags Power Pl Eng 28:30-4 Ja 1 '24
Surface tension as a factor in the priming of steam boilers. E. B. Millard and T. E. Mattson. diags Ind & Eng Chem 17:685-6 Jl '25
Les tendances actuelles dans l'emploi de la vapeur à haute pression. Génie Civil 85:405-6 N 1 '24
Turning a nuisance to profit; using refuse as fuel. E. Winholt. il Factory 33:788+ D '24
1200-lb boilers a 1923 development. diag Power Pl Eng 28:55 Ja 1 '24
Two boilers suspended without columns. H. A. Jahnke. diags Power Pl Eng 28:1163 N 15 '24
La vapeur sèche et les moyens de la produire dans les générateurs à haute vaporisation. Bussac. diags Soc Ing Civils Bul 77:262-78 Ap '24; Abstract. Génie Civil 84:362-3 Ap 12 '24
Das verhalten von eisen, rotguss und messing in salzhaltigen wässern bei gewöhnlicher temperatur und bei den im dampfkessel herrschenden temperaturen und drücken. O. Bauer. il diags Stahl & Eisen 45:1101-9 Jl 9 '25
Der Wandurfkessel. P: Zwiauer. diags Stahl & Eisen 44:435-8 Ap 17 '24
Weymouth 1,200-lb. boiler interior during construction. il Elec W 85:860 Ap 25 '25
Wichtige neuerungen im bau amerikanischer dampfkesselfeuerungen. H. Bleibtreu. diags Stahl & Eisen 45:1549-55 S 10 '25
World's largest steam boiler. A. C. Blackall. Blast F & Steel Pl 12:420-2 S '24

See also Baffles; Boiler cleaning; Boiler explosions; Boiler inspection; Boiler plants; Boiler plates; Boiler scale; Boiler tubes; Dampers; Draft; Feed water; Feed water heating; Feed water purification; Feed water regulation; Fuel economy; Furnaces, Boiler; Grates; Injectors; Locomotive boilers; Mechanical draft; Pumps, Feedwater; Safety valves; Steam engines; Stokers, Mechanical; Water gages

Baffles

See Baffles

Benson boiler

Benson high pressure steam generator. Can Eng 47:324 S 9 '24
Steam generation at the critical temperature; the Benson 3200 lb. pressure boiler. Soc Chem Ind J (Chem & Ind) 43:249-50 Mr 7 '24; Electrician 92:324 Mr 14 '24
Steam generation at 3,200 lb. pressure. Chem Age (Lond) 11:216 Ag 30 '24
Steam generation under critical conditions; Benson process. D: Brownlie. il diag Soc Chem Ind J (Chem & Ind) 44:213-19 F 27 '25; Same cond. Chem Age (Lond) 12:151-2 F 14 '25; Abstract. Mech Eng 47:358 My '25

Blow-off

Blow-off periods recorded by thermometer. F: L. Ray. chart Elec W 82:972 N 10 '23
Blowoff tank for battery of boilers. H. B. Adams. diags Power 62:459 S 22 '25
Boiler blowoff pipe failures. diag Power 59: 538, 788-9, 835, 917, 959, 998, 1041; 60:340, 468 Ap 1, My 13-20, Je 3-24, Ag 26, S 16 '24
Bottom blowing of boilers. L. J. Reed. il Locomotive 35:202-4 Jl '25
Law and the blowoff pipe. A. L. H. Street. Power 60:782 N 11 '24
Systematic control of boiler-water concentration. C. M. Ware. Power 60:650-1 O 21 '24

Care

Plea for justice for the small boiler. B: J. Parker. Mech Eng 47:880 N '25
Prolonging the life of a steam boiler. E: Ingham. Cassier's Ind Management 12: 452+ S '25
Suggested rules for the care of power boilers; proposed as an addition to the A.S.M.E. boiler construction code. Power 61:924-5, 964-6, 1007-8; 62:33-5, 72-3, 150-3, 187-8, 224-6 Je 9-23, Jl 7-14, 28-Ag 11 '25

Cleaning

See Boiler cleaning

Control

Automatic combustion control. Power Pl Eng 28:554-5 My 15 '24
Automatic combustion control. S. C. Martin. Power Pl Eng 29:182-3 F 1 '25
Automatic combustion control. C: H. Smoot. Textile World 66:649+ Ag 2 '24
Centralized combustion control in Lowellville. J. F. Shadgen. il plan Power 59:676-9 Ap 29 '24
Combustion control. T. A. Peebles. Mech Eng 47:193-4; Discussion. 194-6 Mr '25; Same cond. Power 61:314-15 F 24 '25
Combustion control at the Hudson avenue station. W. C. Holmes. il charts diag Elec W 86:628-32 S 26 '25
Combustion control based on CO_2 in gas. G: E. Gaster. diags Power Pl Eng 28:768-9 Jl 15 '24; Discussion. 28:870, 1018 Ag 15, O 1 '24
Combustion control for boilers. R. J. S. Pigott. Paper 34:368-71 Je 19 '24; Same. Mech Eng 46:590-2 O '24; Abstract. Power Pl Eng 28:694-5 Jl 1 '24
Combustion control system reduces labor. C. C. Crum. Gas Age 56:501-2 O 10 '25
Control of boiler room operation. E. G. Bailey. diag Power Pl Eng 28:1095-7 N 1 '24
Controlling combustion by temperature. G. Simmons. il diag Power Pl Eng 28:906-8 S 1 '24

BOILERS—Control—*Continued*
Controlling the combustion gas for efficient boiler operation. chart Gas Age 54:672 N 8 '24
Evils of close regulation in automatic combustion control. T. A. Peebles. Power 60: 13-14 Jl 1 '24
Fundamentals of combustion control. E. G. Bailey. il diag Power Pl Eng 28:1044-8 O 15 '24; Same cond. Power 60:667-8 O 21 '24
Hagan combustion system proves profitable. C. H. Lowe. Rubber Age 18:57 O 25 '25
Lehnco boiler control. diags Power 62:71 Jl 14 '25
Modern systems of boiler control. J: B. C. Kershaw. Engineer 137:141-4 F 8 '24
New fire controlling system for power plants. diag Cassier's Ind Management 12:166+ F '25
Use of combustion control devices increases. R. J. S. Pigott. il Power Pl Eng 28:1199-1203 D 1 '24

Door protectors

Smith door protectors. diag Textile World 66: 2541+ N 1 '24

Efficiency

Air infiltration—enemy of boiler efficiency. I. S. Pieters. Blast F & Steel Pl 12:388-9 Ag '24
Boiler efficiency. C: E. Colburn. chart Blast F & Steel Pl 12:75-6 Ja '24
Boiler efficiency. W. S. Patterson. Engineer 137:178 F 15 '24
Boiler efficiency and chimney gas temperature. W. F. Schaphorst. Sanitary & Heat Eng 103:290-1 My 1 '25
Erfahrungen und forderungen des praktischen kesselbetriebes. M. Guilleaume. il diags Zeit Ver Deutsch Ing 68:185-93, 255-64 Mr 1, 15 '24
Excess flue-gas temperature—its effect on boiler efficiency; abstract. J. R. Darnell. Mech Eng 47:671-2 Ag '25
Higher thermal results in the boiler room, and the relation between efficiency and economic values. J. G. Worker. il chart diags Eng Soc W Pa 41:33-55; Discussion. 56-80 Mr '25
Increased efficiency through changes in boiler baffling. H. E. Osgood. diags Power 60:769-70 N 11 '24
Increasing boiler capacity and efficiency in same floor space. C: J. Herbeck. il diag Power 61:646-7 Ap 28 '25
Locating and reducing excessive use of boiler fuel in small gas plants. C. L. C. Kah. Am Gas J 121:1084-5+ O 18 '24; Same. Gas Age 55:39-40 Ja 10 '25
Practical boiler efficiency. Power 58:737-8, 1037 N 6, D 25 '23
Questionnaire aids in building up boiler efficiency. C. L. C. Kah. Power Pl Eng 28: 1218-19 D 1 '24
What is boiler efficiency? M. A. Rooney. Am Soc Heat & V E J 31:419-22 Ag '25; Same. Sanitary & Heat Eng 104:204-5 O 2 '25

Electric heating

Automatically controlled electric boilers. W. S. Guthrie. diags Elec W 85:568 Mr 14 '25
Determination of hydrogen produced in a General Electric, electric steam generator. C. Dantsizen and E. H. Horstkotte. Il Paper Tr J 79:43-4 D 11 '24; Same. Elec W 84:1156-7 N 29 '24
Electric boiler used in hat industry. A. S. Goorin. Elec W 85:1267 Je 13 '25
Electric steam boiler used to utilize excess water power. il Power 59:568 Ap 8 '24
Electric-steam generator saves much fuel. Elec W 84:482 S 6 '24; Same. Power 60:440 S 9 '24; Same. Management & Adm 8:408 O '24
Elektrische dampfkessel. diags Elektrotech Zeit 46:229-31 F 12 '25
Explosions in electric steam boilers. Power 60: 152, 587 Jl 22, O 7 '24
Small electric steam boiler replaces coal-fired type. D. J. Stump. il Power 60:1072 D 30 '24
22,000-volt electric steam boiler. Sci Am 130: 124+ F '24

Electrolytic protection

Electrolytic protection of boilers; Renger-Fuhrman process; abstract. H. Manz. Mech Eng 46:636-7 O '24
Electrolytic scale prevention. il Blast F & Steel Pl 13:414-15 O '25
Kirkaldy electrolytic system of protection for boilers and condensers. diag Power 62: 425 S 15 '25

Equipment

Boiler equipment. il diags Power Pl Eng 28: 73-6 Ja 1 '24

See also Air heaters; Boiler plants—Equipment; Carbon dioxide recorders; Feed water heaters; Feed water regulators; Fuel economizers; Furnaces, Boiler; Pressure gages; Water gages

Failures

Action of caustic soda on boiler steel; preliminary report of M.I.T. experiments. R. S. Williams and V. O. Homerberg. il diag Power 59:608-10 Ap 15 '24; Same. Chem & Met Eng 30:589-91 Ap 14 '24
Blanked flange fails in boiler test. J: S. Spicer. Power 61:235 F 10 '25
Boiler shell failure. il Engineer 139:sup30-1 F 27 '25
Brittleness and cracks in seams of steam boilers. H. Kriegsheim. il diags Power Pl Eng 28:792-5 Ag 1 '24
Causes and prevention of boiler-tube failures. J. W. MacKenzie. Elec W 84:1159-60 N 29 '24; Same. Locomotive 35:178-9 Ap '25
Das dampfkesselwesen in den Vereinigten Staaten von Amerika; nietnahtrisse. F: Münzinger. il Zeit Ver Deutsch Ing 69:840-4 Je 20 '25
Responsibility for latent defects in boiler. A. L. H. Street. Power 61:159 Ja 27 '25
Three pounds of soda ash daily saves boiler tubes in New Orleans plant. P. F. Hoots. il diag Power 61:899-902 Je 9 '25; Discussion. W. H. Burton. 62:419-20 S 15 '25

See also Boiler explosions

Firing

Art of manufacturing power economically. I. R. Hoffman. Power 60:620 O 14 '24
Burning mixtures of coke breeze and bituminous coal. C. C. Herman. Power 59:1038 Je 24 '24
Burning mixtures of lignite and bituminous. A. Canfield. charts diag Power Pl Eng 28:476-7 My 1 '24
Burning small sizes of anthracite. A. A. Cary. diags Power 59:326-8 F 26 '24; Discussion. 59:574-5, 654-5 Ap 8, 22 '24
Firing a hand-fired down-draft furnace. J. F. Barkley. U S Bur Mines Rep of Invest 2609:1-6 My '24; Same cond. Power Pl Eng 28:890-1 S 1 '24; Abstract. Power 59:1027 Je 24 '24
Firing of water-tube boilers, recent developments in chain grate practice. Cassier's Ind Management 11:225-6, 281-2 Ap 17, My 15 '24
Hand firing for boilers. F. Johnstone-Taylor. Cassier's Ind Management 12:270+ Ap '25
Hand stokers reduce operating labor. il diags Power Pl Eng 28:47-9 Ja 1 '24
How much coal should I use? A. G. King. il Dom Eng 111:26+ Ap 11 '25
How steam production costs were reduced in hand-fired return-tubular boiler plant. A. R. Mumford. Sibley J 38:67-74 Mr '24
Improvements in the National hand stoker. il Power Pl Eng 28:411 Ap 1 '24
Instructions for firemen. Power 62:140 Jl 28 '25
It pays to do your best. C. Rye. diags Power 60:103-4 Jl 15 '24
Kesselfeuerung mit selbsttätiger feuerschürung und schlackengenerator. E. Pfleiderer. il diags Zeit Ver Deutsch Ing 68:305-10 Mr 29 '24

BOILERS—Firing—*Continued*
Let the boiler breathe. B. H. Beling. diag Dom Eng 112:35+ Jl 25 '25
Neuere erkenntnisse und richtlinien der feuerungstechnik. Schulte. diags Zeit Ver Deutsch Ing 69:941-6, 1138-42 Jl 18, Ag 29 '25; Abstract (pt.1). Mech Eng 47:846-9 O '25
Practical ways of obtaining boiler economy. diags Power Pl Eng 28:90-2 Ja 1 '24
Results obtained with a southwest coal. diag Power Pl Eng 29:889-90 S 1 '25
Results of evaporation test on a water tube boiler. F. H. Bivens. Gas Age 56:667 N 7 '25
Saving coal by correct hand firing. J. A. Madsen. Power 62:602-3 O 20 '25
Some common mistakes in operating a stoker-fired boiler. J. F. Barkley. U S Bur Mines Rep of Invest 2678:1-5 Mr '25 (typew); Same, without table. Blast F & Steel Pl 13: 443-4 N '25
Some hints for boiler firemen. J. L. Ball. Power Pl Eng 28:380-1 Ap 1 '24; Discussion. W. H. Wakeman. 28:563-4 My 15 '24
Stoker operation in the industrial plant. I. R. Hoffman. Power 61:792 My 19 '25; Discussion. 62:65 Jl 14 '25
Suggestions for the saving of coal. H. C. Mead. Power Pl Eng 28:710-11 Jl 1 '24
Wärmeerzeugung und wärmebilanzen von feuerungen, besonders für minderwertige brennstoffe. F: Ebel. diag Zeit Ver Deutsch Ing 68:1031-6, 1106-8 S 27, O 18 '24

See also Boilers—Gas firing; Boilers—Oil firing; Boilers—Pulverized coal firing; Boilers—Wood firing; Stokers, Mechanical

Foaming

Foaming and priming. il Locomotive 35:197-201 Jl '25
Foaming of boiler water. C. E. Foulk. Ind & Eng Chem 16:1121-5 N '24

Furnaces

See Furnaces, Boiler

Gas firing

Boiler firing with natural gas. R. Tullis. diags Power 61:494-5 Mr 31 '25
Burning natural gas and oil. diags Power Pl Eng 29:989-90 O 1 '25
Gas boiler makes speed of 4,200 miles an hour in the manufacture of thread. E. W. Berchtold. il Am Gas J 120:47-8 Ja 19 '24
Gas can be burned with higher efficiency than other fuels. diags Power Pl Eng 28: 66-7 Ja 1 '24
Gas-fired boiler system. il diag Gas Age 54:835-6 D 13 '24
Die hochofengaswirtschaft auf eisenhüttenwerken. K. Rummel. il diags Zeit Ver Deutsch Ing 68:1137-44 N 1 '24
Introducing a new type boiler with a polished aluminum jacket; new America 3-G boiler. il Gas Age 53:486 Ap 12 '24
Place of the gas boiler in the gas load. C. A. Carlson. Gas Age 56:445-6 S 26 '25
Power and process steam from byproduct producer gas. C. H. S. Tupholme. il diags plans Chem & Met Eng 31:300-3 Ag 25 '24
Report of the committee on steam boilers. H. Vittinghoff. Am Gas Assn Industrial Gas sec v 5:741-3; Discussion. 743-7 '23
Some applications of the town gas fired boiler. J. N. Williams. il Gas J (Lond) 170: 58-9 Ap 1 '25
Standard code for testing and rating gas-fired steam boilers; tentative. diags Am Gas Assn Manufacturers' sec v 5:840-7 '23
Transmission of heat in boilers. W. N. Booth. diags Gas J (Lond) 166:36-8 Ap 2 '24
Use of liquid and gaseous fuels. il diags Power Pl Eng 29:384-6 Ap 1 '25
Waste-heat and gas-fired boilers. J. W. Reber. Gas J (Lond) 169:531-2 Mr 4 '25

See also Boilers, Waste heat

Joints

Brittleness and cracks in seams of steam boilers. H. Kriegsheim. il diags Power Pl Eng 28:792-5 Ag 1 '24
Efficiency of butt and double-strap joint double-riveted. diag Power 60:381 S 2 '24
Efficiency of reinforced tube ligaments. G. H. Stickney and B. C. Cruickshanks. diags Locomotive 35:131-8 Ja '25
Efficiency of triple-riveted butt and double strap joint. Power 61:744-5 My 12 '25
General Electric automatic range-boiler welders. il Am Mach 63:568 O 1 '25

Laws and regulations

A.S.M.E. boiler code committee work. Mech Eng 45:719; 46:161, 224-5, 427, 497, 565, 923-4; 47:56-7, 378-9, 515, 771 D '23, Mr-Ap, Jl-S, D '24-Ja, My-Je, S '25
Amerikanische dampfkesselvorschriften. R: Baumann. diags Zeit Ver Deutsch Ing 68: 1219-23 N 22 '24
Boiler legislation in France. C. E. Stromeyer. Power 60:810 N 18 '24
Fusible plugs not essential in crown sheets under boiler inspection act. Ry Mech Eng 99:190-1 Mr '25
Legal duties concerning boilers. A. L. H. Street. Power 60:959 D 9 '24
Responsibility for latent defects in boilers. A. L. H. Street. Power 61:159 Ja 27 '25
Second revision of A.S.M.E. boiler code, 1923. Mech Eng 45:261-3+, 318-19, 379-83, 713-19 Ap-Je, D '23
Standard rules for the construction of stationary steam boilers. 198p American society of mechanical engineers, New York '24
States and cities adopting A.S.M.E., 1924 edition, boiler code. Power 60:669 O 21 '24
Status of adoption of A.S.M.E. locomotive, miniature, unfired pressure vessel and low pressure heating boiler codes by states and cities. Power 62:270 Ag 18 '25
Steam-boiler fittings in Holland. H. W. Los. diag Power 59:734 My 6 '24

See also Boiler explosions

Manufacture

Boiler drum built in a gun factory. il Boston Soc C E J 12:91-4 F '25
Making high-pressure vessels tight. D. J. Champion. Power 62:521 O 6 '25
Maschinen und herstellungsverfahren im dampfkesselbau. F. Loch. il diags Zeit Ver Deutsch Ing 68:194-7 Mr 1 '24
Rheinischer kampfkesselbau. F. Weber. il diags Zeit Ver Deutsch Ing 69:1031-6, pl 6 Ag 1 '25

See also Boiler plates—Manufacture; Boiler tubes—Manufacture

Oil firing

The Benjamin Franklin, Philadelphia's newest hotel, operates oil-burning power plant. il plan Power Pl Eng 29:468-73 My 1 '25
Burning liquid and gaseous fuels; experience with burners, furnace design and air preheaters reported by the Prime movers committee of the N.E.L.A. diag Power Pl Eng 28:586-7 Je 1 '24
Burning oil under power boilers. R. F. Burke. diags Power Pl Eng 28:328-30 Mr 15 '24
Cause of the rapid failure of fire brick in the checkerwork baffles of oil fired boilers. Am Cer Soc J (Bul) 7:307-11 Ag '24
Causes of carbon deposits with oil firing. Power Pl Eng 28:1203 D 1 '24
Changing over coal burning boiler furnaces for oil burning. Locomotive 35:227-32 O '25
Control of power production. C: L. Hubbard. il diags Factory 34:274-7+ F '25
Cost estimate of Montaup plant initial development. diag Elec W 83:475-6 Mr 8 '24
Efficiency in oil burning installations. F. A. Rothwell. diags Power Pl Eng 28:526-8, 639-41 My 15, Je 15 '24; Discussion. 28:665, 1163-4 Je 15, N 15 '24
Efficiency of oil-fired boilers. W. F. Schaphorst. chart Power Pl Eng 29:914 S 1 '25; Same. Blast F & Steel Pl 13:375 S '25

BOILERS—Oil firing—*Continued*
Firing oil by gage. A. E. Davie. diag Power 61:878-9 Je 2 '25
Fuel oil burning system of the Morse dry dock & repair co. il Iron Age 113:153 Ja 10 '24
Fuel oil in the commercial buildings of New York. A. M. Coyle. Mech Eng 47:487-9 Je '25; Abstract. Power 61:397 Mr 10 '25
Furnace design important in burning oil. il diags Power Pl Eng 28:63-6 Ja 1 '24
Handling oil-fired boilers. A. Smith. Power 60:577 O 7 '24
Is oil firing profitable? W. Viessman. Power 61:654-5 Ap 28 '25
Making the refinery show a profit by reducing operating costs; testing flue gases; atomizing with gas. P. Truesdell. il Nat Pet N 15:35+ D 12 '23
Mechanical atomization of fuel oil. C. C. Brown. Power Pl Eng 27:1192-4, 1238-41 D 1-15 '23
Model oil-burning railroad power plant at Parsons, Kan. il Ry Age 77:237-41 Ag 9 '24
New Byllesby plant near Muskogee. il diags plan Power 60:562-8 O 7 '24
New furnace design permits burning heavy oil. il diags Power Pl Eng 29:689-90 Jl 1 '25
Oil burning in industrial-plant and central-station service. N. E. Lewis. diag Mech Eng 46:849-51 pt 2 N '24; Abstracts. Power Pl Eng 29:136-7 Ja 15 '25; Power 60:926-7 D 9 '24; Discussion. Mech Eng 47:278-81 Ap '25
Oil-burning methods. A. L. Wernert. Power 60:332-3 Ag 26 '24; Discussion. G. W. Harrison. 60:585-6 O 7 '24
Oil-fired vertical boiler at the British Empire exhibition. il diags Engineering 118:501 O 3 '24
Power plant management; efficient utilization of fuel oil. R. June. il Concrete 24:sup25-7 F '24; Same. Gas Age 53:157-9 F 9 '24; Same. Blast F & Steel Pl 12:210-13 Ap '24
Power problems of Macy's department store. il plans Power Pl Eng 27:1215-20 D 15 '23
Preventing carbon deposits in oil-burning furnaces. diags Power Pl Eng 29:160-1 Ja 15 '25
R. H. Macy power plant changes from coal to oil burning. il Power 58:910-12 D 4 '23
Refractories for oil-burning boilers. T: S. Curtis. Mech Eng 47:299 Ap '25
Use of liquid and gaseous fuels. il diags Power Pl Eng 29:384-6 Ap 1 '25
What you want to know about oil as fuel in rubber plants. W. F. Schaphorst. il Rubber Age 16:79-83; Discussion. W: H. Larkin, jr. 83-7 N 10 '24

See also Boilers, Heating—Oil firing; Boilers, Marine—Oil firing

Pulverized coal firing

American pulverized fuel equipment proves popular in Europe. diag Blast F & Steel Pl 13:377-8 S '25
Analysis of steam station design; an interview with C. F. Hirshfeld. Elec W 86:612-13 S 26 '25
Das anwendungsgebiet der kohlenstaubfeuerung. K. Rummel. Stahl & Eisen 43:1531-6 D 13 '23
Application of pulverized coal to boilers. diags Power Pl Eng 28:71-2 Ja 1 '24
Application of pulverized fuel to the industrial plant. W. Edward. diags Power 61:784-7 My 19 '25
Application of the unit system of pulverized coal to boilers. H: B. Jones. Power 61:709 My 5 '25; Abstract. Power Pl Eng 29:534 My 15 '25
Arrangement of burners raises powdered coal efficiency. il Coal Age 28:111 Jl 23 '25
Bids on boiler auxiliary equipment of Detroit municipal plant. Power 61:606 Ap 21 '25
Boiler furnaces for pulverized coal. A. G. Christie. Mech Eng 47:632-5; Discussion. 635-6 Ag '25; Discussion. H. W. Brooks. Power Pl Eng 29:655-7 Je 15 '25; Same. Blast F & Steel Pl 13:330-3 Ag '25; Same abr. Power 61:926-7 Je 9 '25
Boiler operation at high ratings. H. A. Reichenbach. il diags Blast F & Steel Pl 12: 354-9 Ag '24
Boiler tests. S. E. Fedden. Engineering 119: 22 Ja 2 '25
Boilers at Cleveland rate 3060 hp. il diags Power Pl Eng 28:517-24 My 15 '24
Cahokia; first large station with the pulverized fuel equipped in the same building with the boilers. il diags plan Power Pl Eng 28: 365-71, 397-401 Ap 1 '24
Cahokia power houses. D: Brownlie. il Electrician 92:132-3 F 1 '24
Cahokia power plant; pulverized-fuel, isolated-phase station. il diags plans Elec W 83:610-20, 659-66 Mr 29-Ap 5 '24
Cahokia station, Union electric light & power company, St Louis, Mo. il diags plans Power 59:514-24 Ap 1 '24
Chaudières à grande capacité pour centrales électriques. M. Demoulin. il diags Génie Civil 84:465-71 My 17 '24
Le chauffage au charbon pulvérisé à la centrale électrique de Labuissière des Mines de Bruay (Pas-de-Calais). A. Martin. diags Génie Civil 86:555-8 Je 6 '25
Clark thread co. installs pulverized-fuel equipment. il diags plan Power 60:714-19 N 4 '24
Coal pulverizing systems outlined at Cleveland section of A.S.M.E. Power 61:158-9 Ja 27 '25; Power Pl Eng 29:216-17 F 1 '25; Mech Eng 47:227-9 Mr '25
Combustion-chamber temperatures with pulverized coal. J. G. Coutant. diags Power 60: 805-6 N 18 '24
Commercial aspects of pulverized fuel. A. J. T. Taylor. Can Eng 49:173-6 Jl 28 '25
Comparison of actual performance and theoretical possibilities of the Lakeside station. M. K. Drewry. diags Mech Eng 47:811-14 O '25; Excerpt. Power 61:846 My 26 '25
Les conditions de l'emploi économique du charbon pulvérisé dans les foyers de chaudières. M. de Vathaire. Génie Civil 86: 18 Ja 3 '25
Control of power production. C: L. Hubbard. il diags Factory 34:68-71+ Ja '25
Cost of pulverized installations. Power 60:290 Ag 19 '24
Development of pulverized coal as a boiler fuel. H. W. Brooks. diags Mech Eng 47:89-93 F '25; Same cond. Power Pl Eng 29:326-8 Mr 15 '25
Evaporative tests at River Rouge. il Power Pl Eng 29:275-8 Mr 1 '25
Features of the Middletown power station. il diags plans Power Pl Eng 29:724-34 Jl 15 '25
Features of Valmont station. R. F. Throne and W. D. Hardaway. il diags plan Elec W 85:1252, 1257-62 Je 13 '25
Gas temperatures throughout boilers burning pulverized coal. J. G. Coutant. Power 62: 579-80 O 13 '25
Heating plant at Pittsburgh has record boiler. diag Power Pl Eng 28:624-5 Je 1 '24
High-pressure station on Ohio. il Elec W 84: 1304-6 D 20 '24
Higher thermal results in the boiler room, and the relation between efficiency and economic values. J. G. Worker. il chart diags Eng Soc W Pa 41:33-55; Discussion. 56-80 Mr '25; Abstract. Mech Eng 47:586-7 Jl '25
Highest boiler efficiencies burning undried coal in pulverized form. J. G. Coutant. Power 61:1040 Je 30 '25
An international puzzle; discussion between Mr Napier and Mr Swinton as to the reliability of the test data obtained at the Lakeside station. Power 59:531-2 Ap 1 '24; Discussion. J. G. Coutant. 59:691 Ap 29 '24
Investigation of powdered coal as fuel for power-plant boilers: tests at Oneida street power station, Milwaukee, Wisconsin. H. Kreisinger and others. diags U S Bur Mines Bul 223:1-92 '23; Abstract. Power Pl Eng 28: 391-4 Ap 1 '24; Discussion. S. C. Martin. 28:616 Je 1 '24
Island station of St Paul gas light company. il plan Power 61:444-8 Mr 24 '25

BOILERS—Pulverized coal firing—*Continued*
Kohlenstaubfeuerung der Bruay-Gruben. diag Elektrotech Zeit 45:497 My 15 '24
Die kohlenstaubfeuerungsanlage auf der zeche "Friedrich Ernestine." diag Zeit Ver Deutsch Ing 69:699-700 My 16 '25
Mechanical gas. il Sci Am 132:312-13 My '25
Mine plant generates power from pulverized bone. F. H. Kneeland. il diags plan Coal Age 27:865-8 Je 11 '25
New England textile plant operates on powdered fuel. il diags Power 61:482-4 Mr 31 '25
New station for Detroit Edison co. A. K. Bak and R. B. Purdy. il diags Power Pl Eng 28:579-85 Je 1 '24
Operating improvements at Providence. W. C. Slade. Elec Ry J 65:511-13 Mr 28 '25
Plant in Utah uses pulverized coal. J. C. Billeter. il Power Pl Eng 28:1098 N 1 '24
Powdered coal. E. W. Riesbeck. il Dom Eng 111:16-20 My 16 '25
Powdered coal as a steam boiler fuel. H: Kreisinger. Power 61:264 F 17 '25
Powdered coal for small boiler plants. T. W. Atterbury. il diag Power Pl Eng 28:937-9, 996-9, 1048-50 S 15-O 15 '24
Powdered coal for steam raising. Engineering 116:747-8 D 14 '23; Discussion. 116:774, 813; 117:14 D 21 '23-Ja 4 '24
Powdered-coal furnace no longer an experiment. diag Coal Age 26:720-1 N 20 '24
Powdered coal in the paper industry. A. J. T. Taylor. diags Paper Tr J 78:118-22 Ap 10 '24
Powdered coal; its preparation and utilisation. R. Jackson. il diags Engineering 117:417-18 Mr 28 '24
Powdered fuel experience in Cleveland. Elec W 86:72-3 Jl 11 '25
Powdered fuel for steam raising. Cassier's Ind Management 12:344+ Je '25
Providence installations report success with pulverized coal. E. H. Couch. Power 59: 964-5 Je 10 '24
Pulverized anthracite slush burned at Lykens. il diags Power 60:2-7 Jl 1 '24; Same, without table. Coal Age 26:253-7 Ag 21 '24
Pulverised coal. G. P. Dennis. Elec R (Lond) 94:726-7 My 2 '24
Pulverized coal at Cahokia. E. H. Tenney. Power 61:222 F 10 '25; Same. Mech Eng 47: 271-2 Ap '25
Pulverized coal at Trumbull steel mills. il diags Iron Age 115:885-8 Mr 26 '25
Pulverized coal at Uxbridge mill. il diag Textile World 67:1077+ F 7 '25
Pulverized-coal boiler performance, Brunot Island power station. L. W. Heller. il diags Power 60:600-3 O 14 '24; Abstract. Zeit Ver Deutsch Ing 69:385-6 Mr 21 '25; Discussion. Power 60:854-5, 1030-1; 61:33; 62:258-9 N 25, D 23 '24, Ja 6, Ag 18 '25
Pulverized-coal burning at the Detroit Edison company's Trenton Channel plant. P. W. Thompson. Mech Eng 47:271 Ap '25
Pulverized-coal installations in France. diags Power 60:111 Jl 15 '24
Pulverized coal used by gas company. diag Power Pl Eng 29:871 Ag 15 '25
Pulverized fuel. Blast F & Steel Pl 12:295-7 Je '24
Pulverised fuel. D: Brownlie. Elec R (Lond) 97:237-8 Ag 7 '25
Pulverized fuel and efficient steam generation. D. Brownlie. Inst E E J 62:385-418 My '24; Abstracts. Elec R (Lond) 93:956-7 D 21 '23; Electrician 91:690 D 21 '23; Engineer 136:665 D 21 '23; Soc Chem Ind J (Chem & Ind) 42:1236-7; 43:66 D 21 '23, Ja 18 '24; Gas J (Lond) 165:34 Ja 2 '24; Power 59:33 Ja 1 '24; Discussion. Inst E E J 62:418-69; 63:386-7 My '24, Ap '25; Elec R (Lond) 93:957-8 D 21 '23; Electrician 91: 695; 92:12, 45, 73, 135, 138, 168, 230 D 21 '23, Ja 4-18, F 1-8, 22 '24; Engineer 136:695-6; 137:14, 42, 68, 103, 128, 146, 261 D 28 '23-F 8, Mr 7 '24
Pulverised fuel and its relation to modern power plant design. D: Wilson. Engineering 120:147-9 Jl 31 '25
Pulverised fuel at St Pancras. diag Electrician 94:270+ Mr 6 '25
Pulverized fuel at the Cleveland electric illuminating company's Lake Shore plant. W. H. Aldrich. Mech Eng 46:519-20; Discussion. 520-2+ S '24; Abstract. Power 59: 948-50 Je 10 '24
Pulverized fuel for boiler firing in a paper mill. il charts diags Engineer 140:292-3 S 18 '25
Pulverized fuel for large boilers. J. C. Hobbs and L. W. Heller. il diags Eng Soc W Pa 39:217-41 O '23; Same abr. Blast F & Steel Pl 11:403-7 Jl '23; Abstract. Power 58:551 O 2 '23; Discussion. Eng Soc W Pa 39:242-66 O '23
Pulverized fuel in European plants. C. H. S. Tupholme. diags Power Pl Eng 29: 635-6 Je 15 '25
Pulverized fuel installation at Farr Alpaca company, Holyoke, Mass. diags Textile World 67:1679+ Mr 7 '25; Power 61:600-2 Ap 21 '25
Pulverized fuel makes good showing. J. C. Hobbs. Power Pl Eng 28:248-9; Discussion. 249-50 F 15 '24
Pulverized fuel systems. A. L. Cole. il diags Power 59:1022-7 Je 24 '24
Radiation in the pulverized-fuel furnace. W. J. Wohlenberg and D. G. Morrow. Mech Eng 47:627-32 Ag '25; Abstract. Power Pl Eng 29:583-5 Je 1 '25; Discussion. Mech Eng 47:636 Ag 25
Requirements for burning pulverized coal. S. C. Martin. diag Power Pl Eng 28:525-6 My 15 '24
Review of recent applications of powdered coal to steam boilers. H: Kreisinger. diags Mech Eng 47:19-23 Ja '25; Same. Blast F & Steel Pl 13:97-102+ F '25; Same cond. Power Pl Eng 29:279-81 Mr 1 '25; Abstracts. Elec W 84:1263 D 13 '24; Power 60:928-9 D 9 '24
Rhode Island utilities report good results from pulverized coal. E. H. Couch and W. C. Slade. Elec W 83:1238-9 Je 14 '24
Self contained pulverized coal unit. C. H. Tupholme. il Power Pl Eng 28:800-1 Ag 1 '24
Slag formation in tubes of powdered-coal-fired boilers. J. G. Coutant. diags Power 61:987-8 Je 23 '25
Stand der kohlenstaubfeuerungen für dampfkessel in Deutschland. F. Schulte. il diags Zeit Ver Deutsch Ing 68:1021-5, 1071-4 S 27, O 11 '24
Les stations centrales électriques chauffées au charbon pulvérisé de Cahokia et de Peoria (Etats-Unis). il diags plans Génie Civil 84:561-5 Je 14 '24
Steam generation with pulverized fuel. Can Eng 47:343-4 S 16 '24
Test of pulverized-fuel-fired boilers at the Lake Shore station, Cleveland. J: Wolff. il diags Mech Eng 47:25-9 Ja '25
Tests of a large boiler fired with powdered coal at the Lakeside station, Milwaukee. H: Kreisinger and others. diags U S Bur Mines Bul 237:1-77, pl 1-2 '25
Tests of a powdered-coal plant. H: Kreisinger and others. diags U S Bur Mines Tech Pa 316:1-22 '23; Excerpts. Power Pl Eng 28:334-5 Mr 15 '24
Thermodynamic and practical features of pulverized-coal firing. Rosin. Power 62:739-40 N 10 '25
Unit coal-pulverizing plant and its operation. J. G. Coutant. diags Mech Eng 47:183-5 Mr '25
Unit powdered-coal installation gives efficiency of 85.4 per cent. E. H. Tenney. il diag Power 61:1033-4 Je 30 '25
Unit system for pulverized coal. S. C. Martin. il Power Pl Eng 28:471-2 My 1 '24
Unit system of pulverized coal. W. W. Clinedinst. Sibley J 38:197-9 N '24
Unit system of pulverizing and burning coal. W. C. Heckeroth. il Power Pl Eng 29:993-5 O 1 '25

Rating

Boiler lore; what boiler capacity means and how ratings may be checked. H. M. Haskell. Sanitary & Heat Eng 101:381-3; 102:11-12 Je 13, Jl 11 '24

BOILERS—Rating—*Continued*
Boiler ratings. Power 61:657-8 Ap 28 '25
Per cent of rating. Power 59:658 Ap 22 '24
See also Boilers, Heating—Rating

Repair

Boiler-repair records. C. L. Orr. Power 60:503 S 23 '24
Repairing vessels while under pressure. Locomotive 35:111-12 O '24
Retubing boilers with bulged heads. R. A. Cultra. Power 58:997 D 18 '23; Discussion. 59:63-4, 143-4 Ja 8, 22 '24
Welding on boilers. S. W. Miller. Iron Age 116:1134 O 22 '25; Same. Am Mach 63:738 N 5 '25; Same. Ind & Eng Chem 17:1169 N '25; Same. Mach 32:237 N '25; Same. Nat Safety N 12:44 N '25; Same. Power 62:732 N 10 '25
Welding patches on boilers a dangerous practice. H. T. Smith. Power 60:813; 61:348 N 18 '24, Mr 3 '25; Discussion. 62:63 Jl 14 '25
What is the best method of repairing a girth seam? Power 61:225-6, 347-8, 957 F 10, Mr 3, Je 16 '25

Settings

Construction of boiler settings in Devon station. il diags Power 59:763-5 My 13 '24
Dutch ovens for bagasse. J. O. Frazier. diags Power 60:682-3 O 28 '24
Experiment in boiler setting. diag Power 60:544; 61:71 S 30 '24, Ja 13 '25
Few remarks about boiler settings. A. Smith. Power 60:1027-8 D 23 '24
Is concrete suitable for boiler settings? diag Power Pl Eng 29:761, 919 Jl 15, S 1 '25
Power and heating plants. J. J. Cosgrove. diags plan Arch Forum 43:85-8 Ag '25
Preventing cracks in boiler settings. Power 60:773, 953-4 N 11, D 9 '24
Setting the horizontal return tubular boiler. diags Power Pl Eng 28:21-3 Ja 1 '24
Settings for hand fired tubular boilers. diags Arch Forum 43:84 Ag '25
Settings for hog-fuel-burning boilers. C. L. Young. diags Mech Eng 47:552-3 Jl '25
Testing of fire-clay brick with special reference to their use in coal-fired boiler settings. R. F. Geller. il diags U S Bur Stand Tech Pa 279:97-139 '25; Abstract. Mech Eng 47:850 O '25
What is wrong with the boiler setting? Power 61:110, 271-2, 388, 467 Ja 20, F 17, Mr 10, 24 '25
Would a Dutch oven help efficiency? diag Power Pl Eng 28:617, 1020 Je 1, O 1 '24

Specifications

Outline of tentative specifications for horizontal return tubular boilers. Am Arch 125: sup12+ Je 4 '24
Specification for horizontal return-tubular boilers. B. W. Wheeler. Power 62:578 O 13 '25

Standards

Progress report of special committee on standardization of oil field boilers. Am Pet Inst Bul 6:9-10 S 4 '25
Sixteen years of boiler standardization. J: A. Stevens. Power 60:217-18 Ag 5 '24
Standard rules for the construction of stationary steam boilers. 198p American society of mechanical engineers, New York '24

Tables, calculations, etc.

Boiler horsepower computed from turbine exhaust condensate. Power Pl Eng 29:404-5 Ap 1 '25
Boiler performance based on heat content of combustion gases. W. H. Jacobi. Power 62: 290-1 Ag 25 '25
Boiler performance chart. G. H. Sheasely. Power 62:446-7 S 22 '25
Calculation of boiler heat balance. charts Power Pl Eng 28:991-5 O 1 '24; Discussion. E. Ogur. 28:1267-8 D 15 '24
Characteristics of steam boilers. R. H. Parsons. Engineering 119:379-81 Mr 27 '25; Correction. 119:518 Ap 24 '25
Chart for determining steam boiler performance. G: Gaster. Power Pl Eng 28:227 F 15 '24
Chart for the design of gas passages. M. E. Yeager. Power Pl Eng 27:1226-8 D 15 '23
Computing boiler capacity for industrial plants. C. L. Hubbard. Sanitary & Heat Eng 104:278-80+ O 30 '25
Computing guaranteed stoker efficiency. H. F. Gauss. chart Power 59:813-15, 858-60 My 20-27 '24
Economy characteristics of stage feedwater heating by extraction. E. H. Brown and M. K. Drewry. Mech Eng 46:118-22 Mr '24
Efficiency of reinforced tube ligaments. G. H. Stickney and B. C. Cruickshanks. diags Locomotive 35:131-8 Ja '25
Heat loss due to sensible heat in boiler refuse. E. Ogur. chart diags Power 60:287-9 Ag 19 '24; Discussion. E. G. Sutton. 60: 468 S 16 '24
Heat losses from boiler furnace walls. L. B. McMillan. Power Pl Eng 29:944-6 S 15 '25
Is the Parsons line straight or curved? C. F. Merriam. Power 60:8-10 Jl 1 '24
Ligament efficiency. J. P. Morrison. diags Power Pl Eng 28:567-8 My 15 '24
Loss of combustible in the ash. Power 60:664 O 21 '24
Making a power-plant heat balance. T: Maynz. diag Power 59:450-2 Mr 18 '24
Per cent CO_2 obtained from boiler meter charts. C: E. Colborn. chart Power Pl Eng 28:195 F 1 '24
Simplifying the boiler heat balance. J. R. Darnell. Power Pl Eng 29:990-2 O 1 '25
Thermometer stem correction. E. L. Karkau. Elec W 85:878 Ap 25 '25
Use of performance data in boiler operation. E: K. Tomita. diag Power Pl Eng 27:1124-5 N 15 '23
Wärmeerzeugung und wärmebilanzen von feuerungen, besonders für minderwertige brennstoffe. F: Ebel. diag Zeit Ver Deutsch Ing 68:1031-6, 1106-8 S 27, O 18 '24

Testing

Benson generator produces 3,200-lb. steam in test. W. A. Johnston. Power 59:457 Mr 18 '24; Same. Engineering 117:238 F 22 '24; Same. Engineer 137:199 F 22 '24
Boiler test results with preheated air. C. W. E. Clarke. diags Mech Eng 46:64-72 F '24; Same cond. Power Pl Eng 27:1228-32 D 15 '23; Same cond. Power 58:902-3 D 4 '23
Boiler tests. S. E. Fedden. Engineering 119:22 Ja 2 '25; Discussion. 119:102, 204 Ja 23, F 13 '25
Calculation of the boiler heat balance. charts Power Pl Eng 28:991-5 O 1 '24; Discussion. E. Ogur. 28:1267-8 D 15 '24
Considérations sur le bilan thermique. A. Linguet. Chimie & Ind 10:829-35 N '23; Same (Discussion of the heat balance in boiler tests). Paper Tr J 78:49-53 Ja 31 '24; Discussion. Chimie & Ind 11:469-72 Mr '24
Continuous power-plant testing. T. Maynz. charts Power 59:205-8 F 5 '24; Discussion. G: A. Chatel. 59:380-1 Mr 4 '24
Dampfkesselböden unter äusserem überdruck. C. Diegel. il diags Zeit Ver Deutsch Ing 69: 41-3 Ja 10 '25
Effect of excess air on flue temperatures and on efficiency A. K. Bak. diag Power 59:634-6 Ap 22 '24; Discussion. 60:105, 547 Jl 15, S 30 '24
Evaporative tests at River Rouge. il Power Pl Eng 29:275-8 Mr 1 '25
Factors affecting priming of steam boilers. C. E. Joos. Power Pl Eng 29:377-82 Ap 1 '25
Hydrostatic pressure tests on boilers. W. H. Fittus. Power Pl Eng 28:219-20 F 15 '24
Importance of boiler plant test; how to conduct a simple trial. H. Seymour. Electrician 92:351+ Mr 21 '24
An international puzzle; discussion between Mr Napier and Mr Swinton as to the reliability of the test data obtained at the Lakeside station. Power 59:531-2 Ap 1 '24; Discussion. J. G. Coutant. 59:691 Ap 29 '24

BOILERS—Testing—*Continued*
Is the Parsons line straight or curved? C. F. Merriam. Power 60:8-10 Jl 1 '24
Measuring the feed water in a boiler test. J. W. Gavett, jr. diags Power 59:567-8 Ap 8 '24; Discussion. 59:875; 60:301 My 27, Ag 19 '24
Parsons' line. Engineer 137:177-8 F 15 '24; Discussion. 137:197, 235 F 22-29 '24
Rate of boiler corrosion determined by simple tests. T. R. McDermet. Power Pl Eng 29: 205-6 F 1 '25
Recent developments in the burning of anthracite. W. A. Shoudy and R. C. Denny. diags Mech Eng 47:573-7; Discussion. 577-9 Jl '25
Review of recent applications of powdered coal to steam boilers. H: Kreisinger. diags Mech Eng 47:19-23 Ja '25; Same. Blast F & Steel Pl 13:97-102+ F '25; Same cond. Power Pl Eng 29:279-81 Mr 1 '25
Sampling boiler water from the water column. F. M. Reiter. Power 60:543 S 30 '24
Standard code for testing and rating gas-fired steam boilers; tentative. diags Am Gas Assn Manufacturers' sec v 5:840-7 '23
Standardisation of boiler testing. Engineering 118:55-6, 101-2 Jl 11-18 '24
Test of pulverized-fuel-fired boilers at the Lake Shore station, Cleveland. J: Wolff. il diags Mech Eng 47:25-9 Ja '25
Testing the boiler. Elec R (Lond) 97:206-7 Ag 7 '25
Testing the boiler in the small plant. A. R. Knapp. Power 58:817-18 N 20 '23; Same. Eng & Contr (W W) 60:1271-2 D 12 '23
Tests of a large boiler fired with powdered coal at the Lakeside station, Milwaukee. H: Kreisinger and others. diags U S Bur Mines Bul 237:1-77, pl 1-2 '25
Tests of a steam generating unit at a municipal power plant. J. E. Woodwell. Power 60: 446-50 S 16 '24
Thoughts on the Benson test. Power 59:454 Mr 18 '24
Water-cooled furnaces make records at Hell Gate. W. E. Caldwell. il diags Power 60:354-8 S 2 '24; Abstract. Mech Eng 46:707 N '24
What is the value of the hydrostatic test? T: H. Fenner. Power 58:851-3 N 27 '23
See also Boiler plates—Testing; Boilers, Heating—Testing; Boilers, Marine—Testing

Wood firing
Boiler-room operation of wood-refuse-fired steam plants. C. C. Simeral. il diag Mech Eng 47:550-2 Jl '25
Burning of wood refuse. R. L. Beers. il diags Tech Assn Pa ser 8:32-6 '25; Same. Paper Tr J 80:157+ F 5 '25; Same, without diags. Paper 35:72+ F 12 '25
Combustion of wood waste from lumber-manufacturing plants. H. W. Beecher. il diags Mech Eng 47:545-50 Jl '25; Discussion. 47:773-5 S '25
Furnaces for burning wet wood refuse. J. F. Nagle. diags Power 61:916-17 Je 9 '25
Settings for hog-fuel-burning boilers. C. L. Young. diags Mech Eng 47:552-3 Jl '25

BOILERS, Heating
Air through slots in fire box door does not always help combustion. Sanitary & Heat Eng 103:106-7+ F 20 '25
Boilers for heating purposes. Power 60:817, 954-5, 1029, 1075 N 18, D 9, 23-30 '24
Cracked and burned out sections on cast iron boilers. E. W. Riesbeck. diags Dom Eng 108:37-8+ S 13 '24
Customer and his coal pile. T: D. Casserly. Heat & Ven 21:75 S '24
Denver residence gas-heating experiment. T. M. Foulk and T. G. Storey. il diags Heat & Ven 20:37-43 O '23; Same. Gas Age 52:389-93+ O 6 '23; Same. Sanitary & Heat Eng 100:377-82+ D 14 '23; Same. Am Gas Assn Technical sec v 5:1083-1107 '23; Same, without table. Am Gas J 119:388-92 O 17 '23
Figuring heating load to arrive at right size of boiler. E. W. Morris. Sanitary & Heat Eng 102:257-9+ O 17 '24
Gas industry on qui vive for house heating load. C. G: Segeler. map Heat & Ven 22:69-71+ O '25
Heating plant at Pittsburgh has record boiler. diag Power Pl Eng 28:624-5 Je 1 '24
High-pressure boiler saves in heating building. M. J. Murphy. Power 61:580 Ap 14 '25
Knocking the melancholy out of heating profits. H. A. Call. Sanitary & Heat Eng 102: 218-19+, 260-1+ O 3-17 '24
Looking towards the future in heating practice. S: R. Lewis. diags Heat & Ven 21:39-42 Mr '24
Nervous water lines in steam boilers. A. G. King. diags Dom Eng 111:26-7+ Je 13 '25
Pitting and corrosion of heating boilers. Power Pl Eng 28:302-3 Mr 1 '24
Relation of low-pressure heating boilers to municipal smoke problem. Munic & Co Eng 66:178-80 Ap '24
Smoke abatement as applied to house-heating boilers. Heat & Ven 21:65-6 S '24
Sweating of boilers. A. McDougall. Dom Eng 109:29 D 13 '24
Unsteady water line causes cracked boiler sections. T. W. Reynolds. diags Heat & Ven 21:68-9 S '24
Why does one boiler take all the returns? diag Power Pl Eng 29:356, 455-6, 505 Mr 15, Ap 15-My 1 '25

Electric heating
Novel method of plant heating; Ford motor co., Green Island, N.Y. Chem & Met Eng 29: 1194 D 31 '23

Equipment
Inducto induced draft appliance for burning buckwheat coal in house-heating boilers. il Heat & Ven 21:75-6 N '24

Firing
Burning low-priced coals in heating boilers. il Heat & Ven 21:60-1 S '24
Burning small-size anthracite and soft coal in house-heating boilers. C: L. Hubbard. il diags Sanitary & Heat Eng 104:250-2+ O 16 '25
Experience of burning buckwheat in a house heater. H. M. Morgan. Heat & Ven 22:79 Ja '25
Heating boilers fired with coal and oil. il Power Pl Eng 29:860 Ag 15 '25
Your customer's coal pile—how you can help him to conserve it. E. W. Riesbeck. Dom Eng 113:18-20+ O 17 '25

Gas firing
See Gas heating

Oil firing
Adapting the oil burner to existing heating plants. H. R. Linn. Heat & Ven 21:41-3 My '24
Burning heavy fuel oil. Dom Eng 110:24+ Mr 21; 112:24 Ag 22 '25
Efficiency of the house-heating oil-fired boiler. J. L. Breese, jr. Heat & Ven 21: 51-4 My '24
Fuel oil heating. Heat & Ven 21:88-91 S '24
Heating of houses with oil. C. H. Chalmers. Am Pet Inst Bul 4:77-9 D 31 '23; Same. Sanitary & Heat Eng 101:4-5+ Ja 11 '24; Same. Sheet Metal Worker 14:1000-2 Ja 18 '24; Same cond. Arch & Bldg 56:5-6 Ja '24
House heating with oil. A. H. Deike. diag Sanitary & Heat Eng 101:240-1+ Ap 18 '24
How they heat with fuel oil on the Pacific coast. C. W. Wright. diags Heat & Ven 21:41-3+ Ag '24
New York's municipal building equipped to burn oil. il diags plans Heat & Ven 22:77-9 O '25
Oil burning boilers—their design and characteristics. Heat & Ven 22:60-1+ O; 63-6 N '25
Oil fuel for domestic purposes. C: L. Hubbard. Bldg Age 46:91-2 F '24
Operating figures on a house-heating oil-burning installation. J. C. Hornung. Heat & Ven 21:56-7 S '24

BOILERS, Heating—*Continued*

Rating

Boiler rating committee's solution of rating problem. Heat & Ven 22:81-3 Jl '25; Excerpt. Dom Eng 111:25+ Je 13 '25

Boiler ratings. Sanitary & Heat Eng 102:241-2 O 3 '24

Boiler ratings and fuel conservation. R. A. Small. Heat & Ven 22:68-70+ S '25

Computing catalog rating of heating boilers. F. B. Howell. charts Am Soc Heat & V E J 29:583-6 O '23

Heating boiler rating movement. F. A. Merrill. Heat & Ven 21:63 O '24

New slant on boiler ratings. Y. Adams. Sanitary & Heat Eng 103:324-5 My 15 '25

Progress in the rating of heating boilers. Heat & Ven 21:46-8 O '24

Rating heating boilers for hot blast service. C: L. Hubbard. diags Dom Eng 113:20-1+ O 31 '25

Rating test of steam heating boilers. A. P. Kratz. Dom Eng 110:37-8 Ja 24 '25

Tables, calculations, etc.

Boiler capacities for direct radiation. Heat & Ven 22:100-3 F '25

Testing

Combustion tests. diag Dom Eng 111:26+ Ap 25 '25

Heat transference and combustion tests in small domestic boiler. H. W. Brooks and others. il diags Am Soc Heat & V E J 31:89-118 F '25; Discussion. 31:253-4 Ap '25

How the Wisconsin industrial commission would rate heating boilers; proposed rules for testing heaters. Heat & Ven 22:71-2 S '25

Proposed code for testing low-pressure steam-heating boilers. Am Soc Heat & V E J 30: 71-9 Ja '24

BOILERS, Locomotive. See Locomotive boilers

BOILERS, Marine

Accelerated circulation features new marine boiler. diags Marine Eng 29:589-90 O '24

Boilers of the new Matson line steamship Malolo. C: J. Post. il diags Marine Eng 30: 582-4 O '25

French torpedo-boat Enseigne Gabolde. diags Engineering 117:571-2, pl 58 My 2 '24

Marine boiler management and construction. J. P. E. C: Stromeyer. 6th ed. 398p Longmans '24

Scotch marine boilers. diags Power Pl Eng 28:28-30 Ja 1 '24

Securing fuel economy at sea. H. C. Dinger. Marine Eng 29:213-15 Ap '24

Testing refractories for marine oil-fired boilers. R. L. Porter. Marine Eng 30:471-3 Ag '25

Trials show superheat saves fuel. il Marine R 54:212-13 Je '24

What is the true cost of furnace failure? I. S. Pieters. il Marine Eng 29:666-7 N '24

What is the ultimate economy of a marine boiler? H: C. Dinger. Marine Eng 29:534-5 S '24

What will be the future development of steam pressures and temperatures for marine work? S. M. Robinson. Marine Eng 29:451-3 Ag '24

Would a Dutch oven help efficiency? diag Power Pl Eng 28:617, 1020 Je 1, O 1 '24

See also Marine engines

Oil firing

Application of fuel conservation and engineering performance standards to shipping board vessels. C. J. Jefferson. Marine Eng 30:27-33 Ja '25; Discussion. 29:732-3 D '24

Betriebserfahrungen mit ölfeuerungsanlagen an bord. P. Müller. il diags Zeit Ver Deutsch Ing 68:442-9 My 3 '24

Does it pay to burn coal now? J. S. Burrows. il Marine R 55:181-3 My '25

Flash point of fuel oil. Marine Eng 29:595-8 O '24

Fuel-oil burning in the United States navy. H. G. Donald. Mech Eng 46:769-70 pt 2 N '25; Discussion. 47:276-8 Ap '25

Handling fuel oil aboardship. J. Hecking. diags Marine Eng 29:423-6 Jl '24

Instruction for students of oil burning. A. L. Wernert. Marine Eng 29:356-7 Je '24

Operating costs can be lowered by keeping watch on heat value of fuel oil used. il plan Marine R 54:362-4 S '24

Practical oil burning system. il chart Marine R 54:87-90 Mr '24

Test of a Beardmore-Blake oil-fired boiler. diags Engineer 140:224-5 Ag 28 '25

Use of fuel under boilers and in Diesel engines for ship propulsion. J. E. Sheedy. Am Pet Inst Bul 4:18-21 D 31 '23

Pulverized coal firing

Pulverized coal as marine fuel. Peabody engineering corporation develops combination burner for oil and pulverized coal. il Marine Eng 30:580-1 O '25

Pulverized coal—the hope of shipowners. C. A. McAllister. Marine Eng 30:607-8 N '25

Testing

Tests of marine boilers. H: Kreisinger and others. diags U S Bur Mines Bul 214:1-309, pl 1-11 '24

Tests on a cylindrical marine boiler with and without preheated air. W. H. Owen. charts diags Marine Eng 29:244-8 Ap '24; Same cond. Engineer 137:209 F 22 '24; Abstract. Engineering 117:210-11 F 15 '24

BOILERS, Mercury

Binary fluid system using mercury vapor expected to cut power costs. P. M. Heldt. Automotive Ind 50:20-1 Ja 3 '24

Emmet mercury boiler. il diags Power 58: 876-80 D 4 '23; Same. Eng & Min J 116:1094-5 D 22 '23; Excerpt. Chem & Met Eng 30:22 Ja 7 '24; Excerpt. Elec R (Lond) 93:993-4 D 28 '23

Emmet mercury vapour plant. diags plans Engineer 137:65-8 Ja 18 '24

Emmet mercury-vapor process. W. L. R. Emmet. il diags Mech Eng 46:235-40+ My '24; Abstracts. Power 59:950 Je 10 '24; Blast F & Steel Pl 12:343-4 Jl '24; Iron Age 113: 1648-9 Je 5 '24; Iron Tr R 75:161-3 Jl 17 '24

Hartford improved mercury boiler on the line. il diags Elec W 86:354 Ag 22 '25

L'installation de force motrice à vapeur de mercure de Hartford (Connecticut, États-Unis). P. Calfas. il diags Génie Civil 84:12-15 Ja 5 '24

Mercury boiler in successful operation at Hartford. il diag Power Pl Eng 28:136-8 Ja 15 '24; Mech Eng 46:91-3 F '24; Locomotive 35:70-5 Jl '24; Blast F & Steel Pl 12:173-5 Mr '24

Mercury boiler promises economies in power developments. Am Mach 59:947 D 27 '23; Power Pl Eng 28:97 Ja 1 '24

Mercury-turbine progress. B. P. Coulson. Elec W 84:1274 D 13 '24

Mercury vapor as an industrial heating medium. C. Field. diags Chem & Met Eng 30: 987-91 Je 23 '24; Abstract. Mech Eng 46:554 S '24

Mercury vapor process. W. L. R. Emmet. J Fr Inst 199:183-6 F '25

Mercury-vapor process; discussion. Mech Eng 46:413-14 Jl '24

Mercury vapor turbine. J: W. Colton. il Aera 12:916-20 Ja '24

Possibilities of mercury as a working substance for binary fluid turbines. W: J. Kearton. diags Engineering 116:663-7, 696-7 N 23-30 '23; Abstracts. Engineer 136:560, 563-4 N 23 '23; Elec R (Lond) 93:796-7 N 23 '23; Discussion. Engineering 116:640-5 N 23 '23; Engineer 136:564-5; 137:42 N 23 '23, Ja 11 '24

Power from mercury vapor. il Sci Am 130:80-1 F '24

Power from mercury vapor. W. L. R. Emmett. il diag Metal Ind 22:33-4 Ja '24

Das quecksilberdampf-verfahren. E. Schulz. diags Zeit Ver Deutsch Ing 68:834-5 Ag 9 '24

BOILERS, Mercury—*Continued*
Revolution in the power field. il Chem & Met Eng 29:1174-5 D 31 '23
Status of mercury boilers. il Elec W 86:607-8 S 26 '25

BOILERS, Range
Cause and effect of range-boiler explosions. W: A. Bradford. il diags N E Water Works Assn J 37:406-23 D '23
Simplified practice in range boilers to expansion tanks. diags Am Gas J 120:590+ Je 28 '24

Prices
Range boilers. R. M. Starbuck. diags Dom Eng 107:24-6+ My 17 '24

Standards
Range boilers and expansion tanks; abstract. Am Inst Arch J 12:419 S '24

BOILERS, Waste heat
Alpha Portland cement company's waste-heat boiler installation at Cementon. il diag Power 61:134-5 Ja 27 '25
Betriebserfahrungen mit abhitzekesseln hinter Siemens-Martin oefen. W. Schuster. diags Stahl & Eisen 44:65-71 Ja 17 '24; Abstract. Blast F & Steel Pl 12:474-5 O '24
Bituminous coal as generator fuel for large water-gas sets with waste-heat boilers. W: A. Dunkley. il diags U S Bur Mines Tech Pa 335:1-43, pl 1-6 '25
La chaudière Clarkson pour la récupération des chaleurs perdues des moteurs à explosion et à combustion interne. diags Génie Civil 84:554 Je 7 '24
Clarkson waste heat boiler. il diags Engineering 116:711-13 D 7 '23
Clarkson waste-heat-recovery boiler. P: Gillespie. il diags Can Eng 47:613-14 D 16 '24
Furnace volume comparisons. J. G. Coutant. diags Blast F & Steel Pl 13:156-8 Ap '25
Generating steam from waste heat. C. H. S. Tupholme. diags Power Pl Eng 28:943-5 S 15 '24
Getting something for nothing. il Chem & Met Eng 31:818 N 24 '24
Good results from new type fire-tube waste-heat boilers in open-hearth plant. il diag Power 60:832-4 N 25 '24
Kirke waste-heat boilers. diag Gas J (Lond) 166:120-1 Ap 9 '24
Notes on waste heat boilers. C. H. Sonntag. Concrete 25:sup88-90 N '24
Steam—economy of generation and utilization. C. A. Schlegel. Gas Age 55:293-5+ F 28 '25
Uniformity in ladle iron; waste heat boiler and reverberatory-type melting furnaces equipped with pulverized coal system. H. R. Simonds. il Iron Tr R 76:628-30 Mr 5 '25; Same. Foundry 53:480-2 Je 15 '25
Use of steam atomization for drill heating furnaces. E. Leland. diag Eng & Min J 118: 379 S 6 '24
Waste-heat and gas-fired boilers. J. W. Rêber. diag Gas J (Lond) 160:529-32; Discussion. 532-3 Mr 4 '25
Waste heat and its insulation from Glover-West verticals and other carbonizing plants. J. S. Thorman. il diags Gas J (Lond) 164: 577-81 N 28 '23; Discussion. 164:644-5, 719 D 5-12 '23
Waste heat boiler for oil engines. chart diag Power Pl Eng 28:233-4 F 15 '24
Waste heat boilers. C. H. Bamber. Gas J (Lond) 164:714-16 D 12 '23
Waste-heat boilers and vertical retort installations; twelfth report of the research sub-committee of the Gas investigation committee. diags Gas J (Lond) 167:106-24; Discussion. 124-6 Jl 2 '24
Waste-heat boilers at Weirton steel plant. W. E. Groume-Grjimailo. Iron Age 113:443-4 F 7 '24
Waste heat boilers for vertical retort benches. C. H. S. Tupholme. Gas Age 53:351-2 Mr 22 '24
Waste heat boilers in coal gas plants. diags Chem & Met Eng 29:976 N 26 '23
Waste heat from cement kilns operates entire mill. H. A. Schaffer. Chem & Met Eng 29:18-19 Jl 2 '23; Same. Concrete 23:sup106-7 D '23
Waste-heat recovery from rotary lime kilns; abstract. C: Longenecker. Mech Eng 47:857 O '25
Why not harness the engine exhaust? L. H. Morrison. il diags Power 58:765-7 N 13 '23
Your excess air. J. N. Williams. Gas J (Lond) 168:786-7 D 17 '24

BOILERS, Water tube
British developments in water tube boilers. F. Johnstone-Taylor. diags Power Pl Eng 28: 173-4 F 1 '24
Collins safety water-tube boiler. il diags Power Pl Eng 29:1075 O 15 '25; Power 62:32 Jl 7 '25
La conservation des bouilleurs-réchauffeurs d'eau d'alimentation des chaudières. diag Génie Civil 87:359 O 24 '25
Details of standard water-tube boilers. il diags Power Pl Eng 28:7-18 Ja 1 '24
Edge Moor single-pass boiler. diags Power 58:769 N 13 '23
Ein erfolgreicher dampfkesselumbau. H. Frank and W. Wutzkowski. diags Zeit Ver Deutsch Ing 69:801-6 Je 13 '25
Firing of water-tube boilers, recent developments in chain grate practice. Cassier's Ind Management 11:225-6, 281-2 Ap 17, My 15 '24
Foreign practice in vertical water-tube boilers. F. Johnstone-Taylor. diags Power Pl Eng 28:1140-1 N 15 '24
High-pressure water tube boilers. O. A. Wiberg. diag Engineering 118:181 Ag 1 '24
Large water-tube boiler. P. W. Robson. Engineering 119:360 Mr 20 '25; Same cond. Elec R (Lond) 96:448 Mr 20 '25; Abstract. Mech Eng 47:585-6 Jl '25
Murray water-lined furnace walls for power station boilers. il diags Engineering 119:71-4, pl 5 Ja 16 '25; Chem Age (Lond) 12:29 Ja 10 '25; Discussion. H. W. Leitch. Engineering 119:352 Mr 20 '25
Page T. H. B. cross-tube boiler. diag Power 62:70 Jl 14 '25
Page T.H.B. type bent-tube boiler. diag Power 61:1006 Je 23 '25
Present practice in steam generation in the United States. D. S. Jacobus. diags Mech Eng 46:626-8 O '24
Rebuilding boilers to increase capacity. il Power Pl Eng 28:710 Jl 1 '24
Replacing nipples on double-deck water-tube boiler. diags Power Pl Eng 29:356-7 Mr 15 '25
Steam, its generation and use. 36th ed. 383p Babcock & Wilcox co., New York '23
Stirling boiler for the Littleton reservoir pumping station. Engineering 119:pl 42 My 22 '25
Suggestions for packing through stays of boilers. H. A. Jahnke. diag Power 61:837-8 My 26 '25
Temperatures in water-tube boilers. diag Power 60:603 O 14 '24
Unloading and erecting vertical water-tube boilers. A. A. Fette. diags Power 61:269-70 F 17 '25
Water-cooled furnaces. H. D. Savage. diags Mech Eng 47:197-9; Discussion. 199-200 Mr '25; Same cond. Power 61:234-5 F 10 '25; Same cond. Power Pl Eng 29:227-9 F 15 '25
Water-tube boilers. il Power Pl Eng 28:2-3 Ja 1 '24
Yarrow boilers at Londonderry power station. diags Engineering 118:177-8 Ag 1 '24

Patents
No patent infringement in boiler suit. Elec W 86:484 S 5 '25

Testing
Balancing combustible in ash against excess air. G: E. Gaster. Power 61:724-5 My 12 '25
Tests at Hudson plant show interesting results; Heine bent tube boiler design. diag Power Pl Eng 29:1049-51 O 15 '25
Tests of a powdered-coal plant. H: Kreisinger and others. diags U S Bur Mines Tech Pa 316:1-22 '23; Excerpts. Power Pl Eng 28:334-5 Mr 15 '24

BOILING
Prevention of bumping when boiling liquids. J. W. Rebbeck. Can Chem & Met 9:177-8 Ag '25
Rate of molecular weight increase in the boiling of linseed oil. J. S. Long and G. Wentz. Ind & Eng Chem 17:905-8 S '25

BOILING points
Accurate determination of elevation of boiling point. K. Jablczyński and S. Kon. diag Chem Soc J 123:2953-63 N '23
Boiling point correction chart for normal liquids. W. H. Bahlke and R. E. Wilson. Ind & Eng Chem 16:1131-2 N '24
Detection of constant-boiling mixtures; hydrochloric acid-water and methyl alcohol-benzene. T. R. Briggs. J Phys Chem 28: 644-50 Je '24
Dielectric constants of organic liquids at the boiling point. F. V. Grimm and W. A. Patrick. Am Chem Soc J 45:2794-2802 D '23
Ebullioscopic measurements in mixed solvents. B. H. Carroll, G. K. Rollefson and J. H. Mathews. diag Am Chem Soc J 47: 1791-9 Jl '25
Effect of a non-volatile solute on the partial pressures of liquid mixtures at the boiling point. B. H. Carroll, G. K. Rollefson and J. H. Mathews. Am Chem Soc J 47:1785-91 Jl '25
Equilibrium boiling-point and latent heat of vaporisation of motor fuels. W. R. Ormandy and E. C. Craven. diag Inst Pet Tech J 9:368-79 O '23
Heat and change of state. Am Gas J 123:159-60, 201-2, 225, 247 Ag 22, S 5-19 '25
Influence of intensive drying on inner equilibria. A. Smits. diag Chem Soc J 125:1068-75 My '24
Relationship between composition and boiling point of aqueous solutions of sodium silicate. J. Y. Cann and D. L. Cheek. Ind & Eng Chem 17:512-14 My '25
Temperature of vapor above boiling salt solutions. K. Schreber. diag Chem & Met Eng 31:297-9 Ag 25 '24; Discussion. 32:327-9 F 23 '25
Vapor pressures and boiling points of mono- and dimethylanilines and mono- and diethylanilines. O. A. Nelson and H. Wales. Am Chem Soc J 47:867-72 Mr '25
Vapor pressures of glycerol-water and glycerol-water-sodium chloride systems. A. R. Carr, R. E. Townsend and W. L. Badger. Ind & Eng Chem 17:643-6 Je '25
Variation with pressure of the boiling points of naphthalene, benzophenone and anthracene. J. L. Finck and R. M. Wilhelm. Am Chem Soc J 47:1577-82 Je '25

BOISE, Idaho

Railroads

Alternate main line gives Boise through passenger service. il map Ry Age 78:1087-9 My 2 '25
Union Pacific loop puts Boise, Idaho, on main line. il map Eng N 92:1014-16 Je 12 '24

BOK peace prize. See Peace

BOLIVIA

See also Finance—Bolivia; Mines and mineral resources—Bolivia; Railroads—Bolivia; Silver mines and mining—Bolivia

Commerce

Markets of Bolivia. R. S. Smith. U S Bur For & Dom Com Trade Information Bul 360: 1-18 '25

Economic conditions

Foreign securities in American markets. Analist 23:529+ My 5 '24

BOLL weevil control association, National. See National boll weevil control association

BOLL weevils
Aeroplane a success as a boll-weevil duster. Manuf Rec 86:100 S 4 '24
Arsenic, calcium arsenate and the boll-weevil. diags Chem Age 31:547-8 D '23
Boll weevil and the next cotton crop. Comm M 6:28-30 Ap '25
Boll weevil control along the San Antonio & Aransas Pass railway. H. M. Madison. Manuf Rec 86:84 S 18 '24
Boll weevil survival. G: W. Fooshe. Comm & Fin 14:432 Mr 4 '25
Effect of boll-weevil upon our cotton production. J. A. Becker. Comm & Fin 14:103+ Ja 14 '25
Insecticides with petroleum base used to kill boll weevil. P. Wagner. Nat Pet N 17:117-18 Ap 1 '25
Killing boll weevils and mosquitoes by airplane activities. J. E. Clayton. Manuf Rec 86:89-90 D 4 '24
Progress in boll weevil control. C. Ousley. Comm & Fin 13:1787+ S 17 '24
Progress in boll weevil poisoning. C. A. Whittle. Manuf Rec 85:83-4 My 15 '24
Progress made in fighting the boll weevil. B. R. Coad and G: A. Maloney. Comm & Fin 14:93+ Ja 14 '25
Prospects for cheapening calcium arsenate for boll weevil poison. C. A. Whittle. Manuf Rec 85:91 Mr 27 '24
Success in aerial boll weevil campaign. Aviation 16:92 Ja 28 '24; Textile World 64:3897+ D 29 '23
Thirty years of the boll weevil and still good crops of cotton. Manuf Rec 87:85-6 Mr 19 '25

BOLTS and nuts
Bolt-heads, nuts and wrench openings. Am Mach 59:938 D 27 '23
Charts for tension in bolts and torsion in shafts. R. Patterson. Am Mach 60:401 Mr 13 '24
Clearance for bolt heads and nuts. J: S. Watts. diags Mach 30:277-8 D '23
Effect of initial tension in flange bolts. M. D. Casler. Am Mach 60:369-70 Mr 6 '24
Eye-bolt stresses as determined by photo-elastic test. T: H. Frost and W. E. Richards. diags Soc Auto Eng J 17:213-16 Ag '25
Modern practice in fitting studs. Am Mach 60:323-4 F 28 '24
Need railroads' co-operation. C: J. Graham. Iron Tr R 77:747-8 S 24 '25; Same. Iron Age 116:831-2 S 24 '25; Same. Ry Age 79:607-8 O 3 '25
Short bolts are best for planer work. D. A. Hampson. Am Mach 61:718 N 6 '24
Simple method of installing anchor bolts for bedplates and machines. E. H. Laabs. diags Ind Eng 82:96 F '24
Some pointers on pipe-flange bolts. R. A. Cultra. diags Power 60:658-9 O 21 '24
Special bolts offer advantages in automotive industry. il Automotive Ind 51:1053 D 18 '24
Standard boxes for packing bolts. il Iron Age 116:468-70 Ag 20 '25
Stresses in bolts due to setting up. il diags Locomotive 35:77-83+ Jl '24
Would standardize bolt packages. Iron Tr R 77:629-30 S 10 '25

See also Staybolts

Manufacture

Ajax continuous motion bolt and rivet heading machine. il Am Mach 62:36-7 Ja 1 '25
Automatic bolt and rivet heading machine. il Ry Mech Eng 99:125-6 F '25
Automatic stock-feeding furnace. A. L. Greene. il diags Mach 31:765-7 Je '25
Cold working on bolts and nuts. il Iron Age 116:289-90 Jl 30 '25
Drastic quenching imparts surprising properties to bolts and rivets. E. L. Shaner. il diags Iron Tr R 76:871-4 Ap 2 '25
Economy bolt pointing and threading machine. il Mach 31:234-5 N '24; Am Mach 62:368-9 F 26 '25; Ry Mech Eng 99:308-9 My '25
Forming hook-bolts on an automatic heading machine. A. L. Greene. il Mach 32:11 S '25
Foster bolt turning machine. il Am Mach 60: 982-3 Je 26 '24; Ry Mech Eng 98:382-4 Je '24
Improves rail and track supply plant; the Colorado fuel and iron co., Pueblo, Colo. G. L. Lacher. il Iron Age 114:498-9 Ag 28 '24

BOLTS and nuts—Manufacture—*Continued*
Large uses of steel in small ways; bolts and nuts. il Iron Tr R 77:625+ S 10 '25
Makes bolts for seventy years; Clark bros., bolt co., Milldale, Conn. H. R. Simonds. il Iron Tr R 75:1635-7 D 18 '24
Making bolts by the millions. A. L. Greene. il Am Ind 25:35-7 Ap '25
Making round head bolts from bar stock. L. K. Silcox. Ry Mech Eng 97:842 D '23
Manufacturing eyebolts for hopper car doors. F. E. Deissler. diags Ry Mech Eng 99:510 Ag '25
Method of gaging nut slots proposed. Soc Auto Eng J 16:33 Ja '25
National machinery co. exhibits forging and bolt machinery. Iron Age 116:627-8 S 3 '25
Practical safety devices for the bolt factory. A. L. Greene. il Nat Safety N 11:9-10 F '25
Salvaging header dies affords larger unit production. A. L. Greene. il Iron Tr R 76: 941-3 Ap 9 '25
Waterbury Farrel double-stroke crank headers. il Am Mach 61:556-7 O 2 '24

Specifications

Dimension specification for ordering stud bolts. A. L. Greene. diag Ind Eng 83:353 Jl '25
Special bolt dimension requirements. A. L. Greene. diags Iron Age 116:532-3 Ag 27 '25

Standards

Action taken at Washington conference on wrench-head bolts and nuts modified. Soc Auto Eng J 14:490 My '24
Bolt and nut standardization. Soc Auto Eng J 14:339-40 Mr '24; Iron Age 113:785 Mr 13 '24
Bolt standard to be revised. Soc Auto Eng J 17:151-2; Discussion. 152-4 Ag '25
Carriage-bolt practice simplified. diags Soc Auto Eng J 13:507 D '23; Blast F & Steel Pl 12:181 Mr '24
Conference in New York for establishing international standards of bolts, nuts and wrenches. Textile World 68:1353 S 5 '25
International standardization of bolts and nuts. Mach 31:314 D '24
Plow bolts. (Simplified practice recommendation no. 23) 10p U.S. Bur. of stand., Washington '25
Santa Fé standard nuts and keys. Am Mach 61:718 N 6 '24
S.A.E. aeronautic division report; airplane bolts and nuts. Soc Auto Eng J 14:630-1 Je '24
Standard proposed by screw-threads division developed to increase accessibility. Soc Auto Eng J 14:487 My '24
Standards for round unslotted bolt heads. Mech Eng 45:725 D '23
Substantial progress made in standardization of bolts, nuts, and rivets. Mech Eng 47:142 F '25

See also Slots—Standards

Testing

Relative strength of bolts with rolled threads as compared with those with cut threads. W. M. Sawdon. diag Sibley J 37:166+ O '23

BOMBAY
Bombay Back Bay reclamation scheme. il diags maps plan Engineering 120:217-20, 230, 286-7 Ag 21, S 4 '25

Water supply

Bombay water supply—Tansa completion works. Engineer 137:11; 139:495-6 Ja 4 '24, My 1 '25
Pipe line from Lake Tansa for the Bombay water supply. Engineering 118:550, 562+ O 17 '24

BOMBS, Aerial
Aerial bombing. A. H. Hobley and H. B. Inglis. il diags Mech Eng 46:309-16 Je '24; Discussion. 46:542-5 S '24
Aviation and the navy. L. McNamee. il Aviation 15:604-8 N 12 '23
Bombing an ice jam. Aviation 16:459 Ap 28 '24
Bombing facts. N. Carolin. Aviation 19:65 Jl 20 '25; Discussion. 19:393-6, 672-3 S 28, N 9, '25
Bombing the battleship. il Sci Am 130:252+ Ap '24
Modern aircraft bombs and their use. il Aviation 16:390-3 Ap 14 '24
Types of airplane bombs used by the Army air service. Aviation 16:460 Ap 28 '24

BOMBS, Constant pressure
Constant pressure bomb. F. W. Stevens. il diags U S Nat Advisory Com for Aeronautics 1923:305-10 '24

BONDING. See Insurance, Surety and fidelity

BONDS
Advisability of purchasing bonds at the time of issue. charts Harvard Business R 3:90-9 O '24
Appraisals of property put up as bond issue collateral. F. Mead. Bankers M 109:98-9 Jl '24
Art of selling bonds. F: A. McCord. 146p F. Peirce & co., Philadelphia, New York '24
Attractive European corporation bonds. Moody's Inv Serv 16:199 My 15 '24
Bond management. Moody's Inv Serv 17:194 Je 11 '25
Bond market. Bradstreet's 53:21 Ja 10 '25
Bond market. See weekly numbers of Commerce and finance
Bond market outlook. Forbes 13:404 Ja 5 '24
Bond market policy. Moody's Inv Serv 16:219 My 29 '24
Bond market position. Moody's Inv Serv 17: 257-8 Ag 6 '25
Bond maturities in 1924. Bradstreet's 52:7 Ja 5 '24
Bond salesmanship. W: W. Townsend. 468p Holt '24
Bonds and averages. Moody's Inv Serv 17:322 O 1 '25
Bonds having limited possibilities of appreciation and neglected issues selling "out of line." Moody's Inv Serv 16:271 Jl 10 '24
Bonds vs. real estate investments. F. E. Sanford. Credit M 26:22 My '24
Buyer's market for bonds. A. M. Leinbach. Annalist 23:287-8 Mr 3 '24
Calculating equal payments. J. G. Sullivan. Eng N 94:204 Ja 29 '25
Continued rise of stocks and bonds likely. R. Estcourt. Annalist 24:704-5 D 29 '24
Corporation bonds. Moody's Inv Serv 17:306 S 17 '25
Cotton futures and dollar futures. E. L. Smith. Annalist 26:443 O 9 '25
Defaults of bonds by classes. Moody's Inv Serv 16:178 My 1 '24
Determination of net earnings available for bond interest. P. W. Brown. Harvard Business R 2:219-23 Ja '24; Same. Paper Tr J 78:53-5 Ja 24 '24
Diversified list of short term securities. Moody's Inv Serv 17:283 Ag 27 '25
Exchange suggestions. Moody's Inv Serv 17: 203 Je 18 '25
Fall and rise of German bonds (industrial, public utility and government). Moody's Inv Serv 16:337-40 S 4 '24
Foreign bonds. Moody's Inv Serv 17:339 O 15 '25
General survey of 1923 in the financial district. Annalist 23:58-9+ Ja 7 '24
General survey of 1924 in the financial district. Annalist 25:53-4 Ja 5 '25
Gold brick artists paint alluring picture of German bonds. E: F. Roberts. Automotive Ind 51:447-8 S 4 '24
Group of unlisted industrials. R. V. Sykes. Forbes 16:288-9 Je 1 '25
Guaranteed bonds. Moody's Inv Serv 17:259 Ag 6 '25
Guiding the bond buyer. 90p New York evening post, inc., New York '25
High coupon issues. Moody's Inv Serv 17:55 F 13 '25
How heavily should a bank invest in bonds? G. E. Maine. Am Bankers Assn J 17:72+ Ag '24

BONDS—*Continued*
How to select bonds. F. J. Lisman. Forbes 14:266+, 396, 515, 750; 16:62 My 24, Je 21, Jl 19, S 15 '24, Ap 15 '25
Important facts on construction bonds. Prof Eng 10:16-20 Ag '25 (to be cont)
Industrial and miscellaneous stocks and bonds in United States and territories, Canada, Mexico and Cuba; Railway and industrial compendium [formerly Railway, industrial and public utility section]. Comm & Fin Chr 119:131-224 sec 2 N 29 '24 [issued twice a year on the last Saturday of May and November]
Investment market. Moody's Inv Serv 17: 5-7 Ja 2 '25
Investment opportunities in the Philippines. Moody's Inv Serv 16:320 Ag 21 '24
List of bonds which in our judgment are selling close to their peaks in the present movement. Moody's Inv Serv 16:256 Je 26 '24
Long term bonds with callable features. Moody's Inv Serv 17:331 O 8 '25
Management of redeemable bonds. Moody's Inv Serv 17:205-8 Je 18 '25
Many excellent $100 bonds. E: L. Barnes. Forbes 16:846-7+ S 15 '25
New York stock exchange bond transactions, 1923. Annalist 23:76-81 Ja 7 '24
New York stock exchange transactions—1924. Annalist 25:68-74 Ja 5 '25
Opportunities for investors; nine bonds in widely diversified industries. R. V. Sykes. Forbes 14:626-7 Ag 15 '24
Out of line bonds. Moody's Inv Serv 16:303 Ag 7 '24
Pennsylvania tax free bonds classified. 19th ed. 46p Barclay, Moore & co., Philadelphia '24
Pocket manual of Cleveland real estate bond issues. 137p Union trust co., Cleveland, O. '23.
Presidential bond markets. Moody's Inv Serv 16:205-6 My 22 '24
Retail bond sales over the counter. D. K. Snow. il Burroughs Clearing House 9:8-9 Mr '25
Science of investing; wide range of the bond field. G: C. Cox. Annalist 22:661-2+ N 19 '23
Securing funds for business expansion. A. M. Leinbach. Management & Adm 8:33-8 Jl '24
Seven interesting steel bonds. Moody's Inv Serv 16:439 D 4 '24
Short and medium term bonds and notes. Moody's Inv Serv 17:323 O 1 '25
Stable bond markets. Moody's Inv Serv 17: 274 Ag 20 '25
Stock and bond transactions on New York stock exchange: highest and lowest prices; total sales. Published in weekly numbers of Annalist
Stocks and bonds. G. G. Munn. Bankers M 109:951+ N '24
Stocks and bonds, 1921-1924; index numbers and numerical data. Survey of Cur Business 30:186-7 F '24 [continued quarterly]
Study in investment values of industrial bonds. A. J. Friedlander. Harvard Business R 3:222-8 Ja '25
$365,000,000 in bond sales South for 1924. Manuf Rec 87:90 F 5 '25
Van Dyke's complete bond value tables, extension to four decimal places throughout. J. E: Van Dyke. 558p Financial press, New York '23
What is behind the legend on your bond. R. A. McClelland. Annalist 25:839+, 871-2; 26: 10+ Je 22-29, Jl 10 '25
Year of the big investments. P. S. Krecker. Comm & Fin 14:67-8 Ja 14 '25

See also County bonds; Debentures; Municipal bonds; New York stock exchange; Public utilities—Securities; Railroads—Securities; Securities; State bonds; Stock exchange; Stocks; *also* Corporation of foreign bondholders

Accounting

Investment bond accounting. V. Lamont. Burroughs Clearing House 9:22-3 My '25

Advertising

Bond house tests the value of good-will copy. Ptr Ink 126:94+ Mr 13 '24
Investment bankers take a tip from other advertisers. Ptr Ink 129:10+ D 25 '24
What is the condition of bond advertising? Ptr Ink 125:86+ N 22 '23

See also Investments—Advertising

Prices

Bond market. Moody's Inv Serv 17:179 My 28 '25
Bond market. Nat City Bank p 102-3 Jl; p 5 N; p 194-5 D '24; p 47 Mr; p 66 Ap; p 86 My; p 3 Je; p 3 Jl; p 130-1 Ag; p 146-7 S; p 163-5 O; p 186-8 N '25
Course of prices in 1924 at the New York stock exchange. Comm & Fin Chr 120:163-73 Ja 10 '25
Course of prices of railroad and miscellaneous stocks and bonds at the New York stock exchange, 1923. Comm & Fin Chr 118:40-55 Ja 5 '24
High bond prices and business recovery. P. Clay. Comm & Fin 14:12 Ja 7 '25
Major trends of bond prices. M. H. Wilson. Am Statis Assn J 20:65-74 Mr '25
Quotations for government, state, railroad and miscellaneous bonds for the week. Published in weekly numbers of Bradstreet's
Quoted prices of active bonds on the New York stock exchange. See weekly numbers of Economic world
Trend of bond prices on New York stock exchange; closing average of 40 issues. Published in weekly numbers of Annalist

Theft

Report of business conduct committee on stolen bonds. I B A of A 13:50-6 S 30 '24

BONDS, County. See County bonds

BONDS, Government

Appraising foreign dollar bonds. J. Rattray. Am Bankers Assn J 18:146+ S '25
Bonds of foreign governments issued in the United States. 76p Harris, Forbes & co., 56 William st., New York '24
Dealings in foreign government securities at New York stock exchange in 1923. Comm & Fin Chr 118:56 Ja 5 '24
Dealings in foreign government securities at New York stock exchange in 1924. Comm & Fin Chr 120:180-1 Ja 10 '25
Foreign bonds. Moody's Inv Serv 17:227 Jl 9 '25
Foreign capital flotations in the United States. Moody's Inv Serv 16:99 Mr 6 '24
Future of foreign dollar bonds. G. R. Paul. Annalist 25:447 Mr 30 '25
How to select bonds. F. J. Lisman. Forbes 15: 122 O 15 '24
Opportunities for investors. R. V. Sykes. Forbes 15:40-1 O 1 '24
Profit on carelessness; failure of owners of federal securities to present them as interest ceases. M. Ives. Am Bankers Assn J 17:6 Jl '24
Selecting public securities. J: Moody. Forbes 15:621-4 F 15 '25
Status of defaulted foreign government bonds. Moody's Inv Serv 16:465-8 D 26 '24
Stock exchange requirements for listing foreign bonds. Bradstreet's 53:113 F 14 '25

See also County bonds; Debts, Public; Municipal bonds; State bonds; Taxation, Exemption from; Taxation of bonds, securities, etc.

Argentina

Argentine dollar bonds—record and prospects. G. R. Paul. Annalist 25:582-3 Ap 27 '25
Argentine obligations. Moody's Inv Serv 17: 71 F 26 '25
$45,000,000 bonds of Argentine government offered by J. P. Morgan & co. and National City co. oversubscribed. Comm & Fin Chr 120:2882-3 Je 6 '25
Offering of $10,188,000 gold bonds of Province of Santa Fe, Argentina—issue sold. Comm & Fin Chr 120:3264 Je 27 '25

BONDS, Government—Argentina—*Continued*
Offering of $30,000,000 bonds of government of Argentine nation. Comm & Fin Chr 119:2590 D 6 '24
Offering of $29,700,000 bonds of government of Argentina. Comm & Fin Chr 121:1523 S 26 '25

Australia

Commonwealth of Australia 5s, 1955. Moody's Inv Serv 17:291 S 3 '25
Floating of $100,000,000 Australian loan by J. P. Morgan & co. Comm & Fin Chr 121:144, 273, 400-1 Jl 11-25 '25; Bradstreet's 53:482 Jl 25 '25

Austria

Offering of $5,000,000 gold bonds of Province of Upper Austria (Austria). Comm & Fin Chr 120:3264 Je 27 '25

Bavaria

Offering of $15,000,000 Free State of Bavaria bonds. Comm & Fin Chr 121:1633 O 3 '25

Belgium

Anomaly in Belgian bond quotations. Moody's Inv Serv 16:352 S 18 '24
Belgium dollar bonds. Moody's Inv Serv 17: 347 O 22 '25
Offering of $50,000,000 Belgium government bonds. Comm & Fin Chr 119:2824-5; 120:3013-14 D 20 '24, Je 13 '25

Bolivia

Foreign securities in American markets. Annalist 23:529+ My 5 '24
Offering of $3,065,000 Republic of Bolivia bonds. Comm & Fin Chr 119:764, 886 Ag 16-23 '24

Brazil

Brazilian bonds. Moody's Inv Serv 16:255 Je 26 '24
Brazilian dollar loans. Moody's Inv Serv 17: 332 O 8 '25
Brazilian securities. Moody's Inv Serv 16: 279 Jl 17 '24
Foreign securities in American markets—Brazil. Annalist 23:291+ Mr 3 '24
Offering of $15,000,000 State of San Paulo (Brazil) bonds—issue oversubscribed—books closed. Comm & Fin Chr 120:1690-1 Ap 4 '25

Canada

Offering of $70,000,000 one-year Canadian government notes. Comm & Fin Chr 121:1162 S 5 '25

Chile

Attractive internal obligations of Chile. Moody's Inv Serv 16:319 Ag 21 '24
Foreign securities in American markets—Republic of Chile. Annalist 23:665+ Je 9 '24
Offering of $20,000,000 bonds of mortgage bank of Chile (Caja de Credito Hipotecario). Comm & Fin Chr 120:3252 Je 27 '25
Republic of Chile 5% Sterling loan of 1911. Moody's Inv Serv 17:364 N 5 '25

China

Chinese credit and certain Chinese bonds. G. R. Paul. Annalist 25:678-9 My 18 '25
Present conditions in China and their effect upon Chinese government bonds. E. B. Hall. Annalist 24:446 N 3 '24

Colombia

Offering of $3,000,000 department of Antioquia (Republic of Colombia) bonds. Comm & Fin Chr 121:1633-4 O 3 '25

Costa Rica

Offering of £300,000 customs lien refunding gold; bonds of Republic of Costa Rica. Comm & Fin Chr 121:1410-11 S 19 '25

Czechoslovakia

Offering in New York of $9,250,000 bonds of Czechoslovak Republic. Comm & Fin Chr 118:2516-17 My 24 '24
Offering of $25,000,000 bonds of Czechoslovak Republic. Comm & Fin Chr 121:2105-6 O 31 '25
Two attractive internal currency bonds of Czechoslovakia. Moody's Inv Serv 17:211 Je 25 '25

Denmark

Danish and Norwegian obligations. Moody's Inv Serv 17:173-6 My 21 '25
Kingdom of Denmark issues. Moody's Inv Serv 17:243 Jl 23 '25
Offering of bonds of mortgage bank of the Kingdom of Denmark. Comm & Fin Chr 120:896 F 21 '25
Offering of $30,000,000 Kingdom of Denmark bonds. Comm & Fin Chr 121:525-6 Ag 1 '25

Dutch East Indies

Dutch East Indies s.f. 5½s, 1953. Moody's Inv Serv 16:392 O 23 '24
Dutch East Indies 5½s and 6s. Moody's Inv Serv 17:260 Ag 6 '25
Offering of Dutch East Indies bonds. Comm & Fin Chr 117:2048-9 N 10 '23

Europe

America's post-war loans to Europe. Comm & Fin 13:1600 Ag 27 '24
European bonds. Moody's Inv Serv 16:187-8, 281-4, 327 My 8, Jl 17, Ag 28 '24

Finland

Offering of $10,000,000 Republic of Finland bonds. Comm & Fin Chr 120:1403-4 Mr 21 '25

France

Attractive exchange. Moody's Inv Serv 17:140 Ap 23 '25
French external bonds. Moody's Inv Serv 17: 123 Ap 9 '25
French government's gold basis consolidation loan. Comm & Fin Chr 121:146 Jl 11 '25
New $100,000,000 French loan quickly oversubscribed. Bradstreet's 52:765 N 29 '24; Econ W n s 28:775 N 29 '24
Successful flotation of French government bonds in United States. Comm & Fin Chr 119:2478-9 N 29 '24

Germany

Fate of German bondholders. R. C. Long. Am Bankers Assn J 18:178+ S '25
German bond values under the revaluation law. M. Rothenberger. Annalist 26:375+ S 25 '25
German dollar treasury notes of 1923. Moody's Inv Serv 17:80 Mr 5 '25
German loan. H. E. Fisk. Annalist 24:388 O 20 '24
The German loan and after. Moody's Inv Serv 16:383 O 16 '24
New German revaluation law as it affects government, state and municipal obligations. Moody's Inv Serv 17:317-20 S 24 '25
Offering of bonds of State of Wurttemberg, City of Duesseldorf, and City of Heidelberg. Comm & Fin Chr 121:2106-7 O 31 '25
Offering of $10,000,000 State of Bremen (Germany) bonds. Comm & Fin Chr 121:1522-3 S 26 '25
Protest of American association of holders of German mark securities against revaluation bill. A. M. Meyerowitz. Comm & Fin Chr 120:2752-3 My 30 '25
Provisions of German law for revaluation of German bonds. Comm & Fin Chr 121:1525-6 S 26 '25
Revaluation of German bonds. Index p 16-17 Ap '25
Revaluation of German government bonds. Comm & Fin Chr 120:1689 Ap 4 '25
Significance of the Hindenburg victory. Moody's Inv Serv 17:147 Ap 30 '25
Speculation in German bonds—a gamble. Annalist 24:188-9 Ag 25 '24

See also Germany—Revaluation law

Great Britain

Future of British dollar bonds. G. R. Paul. Annalist 25:478 Ap 6 '25

BONDS, Government—Great Britain—*Cont.*
United Kingdom, Great Britain 5½s, 1937 and 5½s, 1929. Moody's Inv Serv 17:155 My 7 '25

Greece

Offering in United States of $11,000,000 Greek government bonds. Comm & Fin Chr 119: 2825 D 20 '24

Hungary

Offering of Kingdom of Hungary bonds in United States and abroad. Comm & Fin Chr 119:26-7 Jl 5 '24
Offering of $10,000,000 7½% Hungarian consolidated municipal loan. Comm & Fin Chr 121:273-4 Jl 18 '25
Republic of Finland 6s, 1945 and Kingdom of Hungary 7½s, 1944. Moody's Inv Serv 16: 360 S 25 '24

Japan

Japanese bonds. Moody's Inv Serv 16:231 Je 5 '24
Japanese government's new financing. Bradstreet's 52:109-10 F 16 '24
Japanese law regarding unregistered bonds lost in earthquake. Comm & Fin Chr 119: 1478 S 27 '24
New Japanese loan. Moody's Inv Serv 16:67 F 14 '24
Offering of Japanese government bonds. Comm & Fin Chr 118:735-6 F 16 '24
Some aspects of the recent Japanese loan. Am Exporter 94:24 Ap '24

Jugoslavia

Kingdom of Serbs, Croats and Slovenes, 8s of 1962. Moody's Inv Serv 17:268 Ag 13 '25
Sale of $3,000,000 7 months' 6% treasury gold notes of the Kingdom of the Serbs, Croats and Slovenes. Comm & Fin Chr 119:1236-7 S 13 '24
$3,000,000 treasury gold notes of Yugo-Slavia sold by Blair & co., inc. Comm & Fin Chr 121:1524 S 26 '25

Netherlands

Offering of $40,000,000 Kingdom of Netherlands (Holland) bonds. Comm & Fin Chr 118:2121-2 My 3 '24

North Carolina

North Carolina borrows on advantageous terms. A. W. McLean. Comm & Fin Chr 120:3022-3 Je 13 '25

Norway

Danish and Norwegian obligations. Moody's Inv Serv 17:173-6 My 21 '25
Kingdom of Norway 6s, 1943. Moody's Inv Serv 16:455 D 18 '24
Offering of $25,000,000 Kingdom of Norway bonds. Comm & Fin Chr 119:640 Ag 9 '24
$30,000,000 kingdom of Norway bonds offered by syndicate headed by Blair & co. inc. oversubscribed. Comm & Fin Chr 120:2883 Je 6 '25

Peru

Offering of $7,500,000 bonds of Republic of Peru. Comm & Fin Chr 121:2221 N 7 '25

Philippine Islands

Status of Philippine government bonds. I B A of A 13:92 N 29 '24
Taxable status of Philippine government bonds. I B A of A 14:9-13 S 23 '25

Poland

Offering of $35,000,000 bonds of Republic of Poland disposed of. Comm & Fin Chr 120: 894-5 F 21 '25

Saar Basin consolidated counties

Offering of $4,000,000 bonds of Saar Basin consolidated counties. Comm & Fin Chr 121: 147 Jl 11 '25

South America

High yielding South American bonds. Moody's Inv Serv 16:80 F 21 '24

Sweden

Kingdom of Sweden 6s, 1939. Moody's Inv Serv 17:131 Ap 16 '25
Review of previous recommendations regarding Sweden 6s, 1939. Moody's Inv Serv 16: 344 S 11 '24

United States

Case of alleged duplications in Liberty bonds. R. A. Lewis, jr. Am Bankers Assn J 17:611-12+ Ap '25
Combined offering of $450,000,000 3% United States treasury certificates and 4% treasury bonds. Comm & Fin Chr 120:1156-7 Mr 7 '25
Course of prices of government securities for the year 1923, at the New York stock exchange. Comm & Fin Chr 118:48-9 Ja 5 '24
Course of prices of government securities for the year 1924 at the New York stock exchange. Comm & Fin Chr 120:173 Ja 10 '25
Government's war financing. Comm & Fin Chr 119:1453-4 S 27 '24
Is the government an unfair competitor for money? Treasury savings certificates. H: Templeton. Am Bankers Assn J 16:555-6+ Mr '24
Large oversubscription to offering of $200,000,000 United States treasury bonds. Comm & Fin Chr 119:2717-18 D 13 '24'
Liberty bonds. Moody's Inv Serv 17:153-4 My 7 '25
Municipal and government bonds. Moody's Inv Serv 17:305-6 S 17 '25
New government bond issue criticized. R. G. Blakey. Annalist 24:639+ D 15 '24
Offering for subscription of $250,000,000 3¼% United States treasury certificates of indebtedness. Comm & Fin Chr 121:1304 S 12 '25
Offering of $125,000,000 3% United States Treasury certificates of indebtedness—books closed. Comm & Fin Chr 120:3106 Je 13 '25
Position of Liberty bonds. Moody's Inv Serv 16:326, 438 Ag 28, D 4 '24
Problems of the United States treasury. G. B. Winston. I B A of A 13:172-5 Mr 31 '25
Sale of government securities by competitive bids. Am Bankers Assn J 16:780+ Je '24
Secretary Mellon in letter to President Coolidge answers report of committee alleging government bond duplications. Comm & Fin Chr 120:1157-9 Mr 7 '25
Senator Shipstead criticizes high rate of interest on government securities. Comm & Fin Chr 118:611-13 F 9 '24
United States and municipal bonds; quotations. Published in monthly Bank and quotation section of Commercial and financial chronicle
United States bonds. Moody's Inv Serv 16: 81-4 F 21 '24
Why the Treasury pays the rate. A. W. Mellon. Am Bankers Assn J 16:615-17 Ap '24; Same. Econ W n s 27:593-4 Ap 26 '24

BONDS, Municipal. See Municipal bonds

BONDS, Rail. See Rail bonds

BONE black
Comparative ash adsorption of vegetable and bone chars. P. M. Horton and P. T. Sengson. Ind & Eng Chem 16:165-7 F '24
Proposed specifications for bone black. Am Soc T M Pro 24 pt 1:483-4 '24
Temperature and analytical changes in sugar liquor during bone black filtration. H. I. Knowles. diag Ind & Eng Chem 17:1151-3 N '25
United States patents on bone black and decolorizing carbons. W. D. Horne. Ind & Eng Chem 16:670 Jl '24

BONES
Deposition of lead salts, with a note on the solubilities of di-lead phosphate in water at 25° C. and of di-lead and tri-lead phosphates in lactic acid at 25° C. L. T. Fairhall and C. P. Shaw. bibliog diags J Ind Hygiene 6:159-68 Ag '24

BONUS certificates. See Soldiers' bonuses—Adjusted compensation certificates

BONUS system
Applying the bonus system to diversified operations. C: E. Bassett. Ind Management 67:47-51 Ja '24
Bonus for increased revenue. Elec Ry J 63: 583-4 Ap 12 '24
Bonus plan in Paige toolroom. Soc Auto Eng J 15:386-7 N '24
Bonus plan that encourages year-around work. A. E. Simmons. System 45:490-1 Ap '24
Bonus system applied to tool department. Iron Age 114:1219 N 6 '24
Bonus system for efficient stockmen. J. E. Mahaney. Ry Age 76:1654-5; Discussion. 1655 Je 17 '24
Bonus system for firemen. W. Weaver. Power 59:337-8 F 26 '24
Bonus systems. J. H. Damon. Power 61:121 Ja 20 '25
Co-operative bonus plan adopted by Southern railway. Ry Age 76:554 Mr 8 '24
Each man does 20% more work; packing and shipping methods of the Western electric company. C. I. De Witt. System 46:344 S '24
Efficiency bonus as a combined group and individual incentive. T. C. Eckstein. diag Ind Management 67:105-6 F '24
Financial incentives for employees. 30p [bibliog. p.20-5] Am. management assn., New York '23
Four most important things we learned in rebuilding our business. H. Schloesser. il System 47:633-6 My '25
I need this order to fill my book. E. J. Heimer. System 46:570 N '24
Installing wage incentive systems that work. E. Beck. il Factory 32:826-9+ Je '24
Making a bonus system pay dividends. A. W. Rowley. Ind Management 68:357-61 D '24
Managing maintenance work with economy. T. Clark. Management & Adm 8:299-302 S '24
Matson navigation company adopts continuous service bonus system for its employees afloat. Marine Eng 29:329-31 Je '24
Merit system builds driver efficiency. il Bus Transportation 3:215-16 My '24
Simple bonus system effective. L. S. Atkinson, jr. Eng & Contr (R & S) 62:49 Jl 2 '24
Southern employees earn bonus for 1925. Ry Age 78:740 Mr 14 '25
Three ways we boosted our volume. H. Schloesser. il System 47:485-7+ Ap '25
United Verde copper company's bonus methods. W. V. DeCamp. Min Cong J 10: 541-9 D '24
What our quota bonus plan does for us. H. D. Gillis. System 45:82+ Ja '24
Work train employees share in profits. il Elec Ry J 64:721-4 O 25 '24

See also Salesmen—Bonuses; Time study

Accounting

Federal taxes and employees' bonuses. J Account 37:229-32 Mr '24

BONUS system, Departmental
Departmental rate setting. K. M. Baker. Ind Management 69:95-7 F '25

BOOK covers
Oklahoma "calls" New York; Edison directory cover. J. L. Frazier. Inland Ptr 74:889-90 Mr '25

Poster strength on the booklet cover. I. J. Ketterer. il Ptg Art 42:337-41 D '23

BOOK industry and trade

See also Bookbinding; Booksellers and bookselling; Paper industry and trade; Printing trade; Publishing

Advertising

Dressing up a novel for sales purposes. C. P. Russell. Ptr Ink 132:120+ S 24 '25
Must advertising be planned to fit dealers' restrictions? Ptr Ink 133:146+ O 1 '25

BOOK jackets
Dressing up a novel for sales purposes. C. P. Russell. Ptr Ink 132:120+ S 24 '25

BOOK stores

See Brentano's book store, New York

BOOK wagon service. See Libraries, Traveling

BOOKBINDER wire. See Wire, Bookbinder

BOOKBINDING
Bookbinding. J: J. Pleger. Rev. ed. 425p Inland printer co., Chicago '24
Bookbinding for beginners. F. O. Bean and J: C. Brodhead. 3d ed 119p Davis press, inc., Worcester, Mass. '24
Flexible method of production planning for the job shop. E. W. Palmer. Factory 32:321-4+ Mr '24
Government bindery. G: H. Carter. Inland Ptr 74:226-8 N '24
Outsides and insides. J. B. Arnold. Inland Ptr 74:371-4 D '24
What composition means to the binder. E. A. Gordon. Inland Ptr 75:430-2 Je '25

See also Marbling; Rings, Loose leaf

BOOKKEEPING
Accounting principles and bookkeeping methods. H. A. Finney. 2v Holt '24
Bliss & Alger bookkeeping and accounting. F. R. Alger. 175p Bliss pub. co., Saginaw, Mich. '23
Bookkeeping and elementary accounting for business men. R. Blank. 210p R. Blank audit co., New York '25
Bookkeeping and introductory accounting. H: W. Sweeney. 545p McGraw-Hill '24
Making it easy for your bookkeeper. G. W. Greenwood. Brick & Clay Rec 65:461-2 S 30 '24
Principles, rules and definitions for bookkeeping. L. E. Goodyear. 8th ed., rev. 238p Goodyear-Marshall pub. co., Cedar Rapids, Ia. '24

See also Accounting; Auditing; Cost accounting; Inventories; Records, Visible

History

Historical defense of bookkeeping. H: R. Hatfield. J Account 37:241-53 Ap '24; Same. Paper Tr J 78:51-4 Ap 17 '24

BOOKKEEPING machines
Accounting machines. E. T. Fanning. Credit M 26:20+ F '24
Book-keeping devices. I: Deutsch. Credit M 27:12-16+ Mr '25
Bookkeeping machines. F. E. Fanning. Credit M 26:7+ Ap '24
Car mileage records with a posting machine. Elec Ry J 62:855-7 N 17 '23
Machine billing and bookkeeping as in force at Portland gas & coke company. W: H. Barton. Am Gas Assn Accounting sec v 5: 565-9 '23
Pay-roll and production accounting machine. il Management & Adm 7:228-30 F '24

See also Calculating machines

BOOKLET covers. See Book covers

BOOKLETS, Advertising. See Advertisements—Books and booklets

BOOKS and reading
Lessons in achievement: to succeed, read—and read widely. H. A. Bruce. Forbes 13: 379+ Ja 5 '24
Library of the architect. A. L. Kocher. Arch Rec 56:123-8, 316-20, 517-20 Ag, O, D '24
Mistakes of an unsuccessful banker; I read the wrong books. W: Ashdown. il Burroughs Clearing House 8:19-20+ My '24
Reading habits of 1924. Ptr Ink 129:68+ N 27 '24

See also Cataloging; Libraries; Libraries, Special; Libraries, Traveling; Printing

BOOKSELLERS and bookselling
Bookman's reading and tools. H. W: Wilson. 53p H. W. Wilson co. '25
Forty years in my bookshop. W. T: Spencer. 283p Houghton '23
Statistical characteristics of book store sales. (Bul. no. 7) 31p Illinois. University. Bur. of business research, Urbana '25

BOONE, Iowa
Water supply
Boone water supply. C. L. Ehrhart. Am Water Works Assn J 13:526-30 My '25

BOOSTERS
Improving voltage with a booster. A. L. Davis. diag Elec Ry J 63:852-3 My 31 '24

BOOTH, John R.
Richest man in Canada is timber chief at 98. C: L. Shaw. por Forbes 14:721-2+ S 15 '24

BORAH, William E.
Borah and our nervous neighbors. Nation's Business 13:45-7 Je '25

BORATES
See Borax; Lead borate

BORAX
Borax from colemanite. B. G. Wood. il Chem & Met Eng 30:976-8 Je 23 '24
Borax; its recovery by solar evaporation. A. W. Gauger and H. W. Storch. il Chemicals 23:4-5 Je 8 '25
Conquering natural brines for commerce. C. T. Bragg and W. P. Putnam. Chem & Met Eng 31:468-9 S 22 '24
Disinfecting and washing citrus fruit. H. E. Shiver. Chem & Met Eng 32:812 O '25
Easy money from borax and potash; a criticism of the promotion methods of the Burnham chemical co. Chem & Met Eng 31:295-7 Ag 25 '24
Mining borax in the Muddy range. G: J. Young. Eng & Min J 117:276 F 16 '24
Standardizing acids and bases with borax. M. G. Mellon and V. N. Morris. Ind & Eng Chem 17:145-6 F '25
Use of fused borax in the determination of the atomic weight of boron. H: V. A. Briscoe, P. L. Robinson and G: E: Stephenson. diag Chem Soc J 127:150-62 Ja '25
World's biggest borax deposits situated in the desert areas of California and Nevada. W: F. Foshag. il map Eng & Min J 118: 419-21 S 13 '24

BORDEN company
Annual report, 5th, for the year 1923. Comm & Fin Chr 118:1558-9 Mr 29 '24
Annual report, 6th, for the year ended Dec. 31, 1924. Comm & Fin Chr 120:1484-5 Mr 21 '25
Borden company common. Moody's Inv Serv 17:123 Ap 9 '25

BORDERS (printing)
Bled border and its place in the typographer's bag of tricks. J. L. Frazier. il Inland Ptr 75:577-9 Jl '25

BORERS (animals)
Insect carpenters. L. E. Kern. il Am Inst Arch J 13:277-8 Jl '25
See also Marine borers

BORESCOPE
How English test big forgings. il Iron Tr R 74:1557-8 Je 12 '24; Abstract. Mech Eng 46:493-4 Ag '24

BORIC acid
Dissociation constant of boric acid. E. B. R. Prideaux and A. T: Ward. Chem Soc J 125:69-71 Ja '24
Electrometric study of the titration of boric acid. M. G. Mellon and V. N. Morris. Ind & Eng Chem 16:123-6 F '24
Manufacture of boric acid in Tuscany. P. G. Conti. il Soc Chem Ind J 44:343-5 Jl 17 '25; Same cond. Chem Age (Lond) 13:62 Jl 18 '25
System chromium trioxide-boric acid-water. L. F. Gilbert. Chem Soc J 127:1541-2 Jl '25

BORING. See Drilling and boring (earth and rocks)

BORING bars
Boring bar for compound pump cylinders. E. A. Murray. il diags Ry Mech Eng 99:57 Ja '25
Boring-bar for deep holes. E. Kilburn. Mach 30:713 My '24
Boring bar for tapered holes. H: Densmore. il Am Mach 61:781-2 N 13 '24
Compact boring-bar for taper holes. J. Williams. il Am Mach 61:474 S 18 '24
Expansion car wheel boring bar. il Elec Ry J 66:250 Ag 15 '25
Rooksby motor-driven, portable cylinder-boring bar. il Am Mach 62:906 Je 4 '25; Ry Mech Eng 99:386-7 Je '25; Power 62:111 Jl 21 '25

BORING machinery. See Drilling and boring machinery

BORNEO
See also Petroleum—Borneo

BORNEOL
Borneol in spruce turpentine. A. S. Wheeler and C. R. Harris. Am Chem Soc J 47:2836-8 N '25
Hydrolysis of the *d*-glucosides of *d*- and *l*-borneol with emulsin. S. Mitchell. Chem Soc J 127:208-9 Ja '25
Rotatory dispersive power of organic compounds; borneol, camphor, and camphorquinone—the origin of complex and anomalous rotatory dispersion. T: M. Lowry and J: O. Cutter. Chem Soc J 127:604-15 Mr '25

BORNITE
Antipathy of bornite and pyrrhotite. G. Gilbert. Econ Geol 20:364-70 Je '25

BORON
Boron and boron suboxide. H. H. Kahlenberg. Am Electrochem Soc Trans v 47 (preprint 6):59-91 Ap '25; Same. Brass W 21:243-7, 267-72 Jl-Ag '25; Discussion. E. G. Jarvis. Brass W 21:247 Jl '25
Case-hardening of steel by boron and nitrogen. T. P. Campbell and H: Fay. il diags Ind & Eng Chem 16:719-23 Jl '24
Redetermination of the atomic weight of boron. H: V. A. Briscoe and P. L. Robinson. diags Chem Soc J 127:696-720 Mr '25
Series spectra of two-valence-electron atoms of boron (Bii) and carbon (Ciii). I. S. Bowen and R. A. Millikan. Phys R 26:310-18 S '25
Use of fused borax in the determination of the atomic weight of boron. H: V. A. Briscoe, P. L. Robinson and G: E: Stephenson. diag Chem Soc J 127:150-62 Ja '25

Analysis
Determination of small amounts of boron in tungsten. D. H. Brophy. Am Chem Soc J 47:1856-61 Jl '25

BORON fluorides
Researches on residual affinity and co-ordination; boron β-diketone difluorides. G. T. Morgan and R: B. Tunstall. Chem Soc J 125:1963-7 S '24

BORON oxides
Boron and boron suboxide. H. H. Kahlenberg. Am Electrochem Soc Trans v 47 (preprint 6):59-91 Ap '25; Same. Brass W 21: 243-7, 267-72 Jl-Ag '25; Discussion. E. G. Jarvis. Brass W 21:247 Jl '25
Isotope effect in band spectra, the spectrum of boron monoxide. R. S. Mulliken. il Phys R 25:259-94 Mr '25
Use of boric oxide in glass-making. W. E. S. Turner. Am Cer Soc J 7:313-17 My '24

BOSSOM, ALFRED C.
Bank architect founds art endowment. por Bankers M 108:1020 Je '24

BOSTON, Massachusetts
Boston trading center of New England. Blast F & Steel Pl 12:429 S '24
Compendium of reports and studies relating to the commerce and industries of Boston. W: A. Leahy, comp. 357p City planning board, Boston '24
Earthquake risk in Boston. I. B. Crosby. fold map Boston Soc C E J 10:421-30 D '23
See also Boston tidewater terminal, incorporated

Bridges
Proposed new Harvard bridge, Boston, Massachusetts. Am Inst Arch J 13:206-10 Je '25

BOSTON, Massachusetts—Bridges—*Continued*
Strengthening and re-decking old bridge for heavy traffic. L: E. Moore. il diag Eng N 94:692-5 Ap 23 '25

Libraries

Two social economics libraries. M. Withington. Special Lib 14:163-4 D '23

Rapid transit

Bus development by the Boston Elevated. Elec Ry J 63:419-20 Mr 15 '24
Changing tunnel for rapid transit. il Elec Ry J 64:39-41 Jl 12 '24
Dorchester rapid transit extension. T: F. Sullivan. Boston Soc C E J 12:49-52 Ja '25
Dorchester tunnel extension plan accepted by Boston Elevated. Elec Ry J 63:81 Ja 12 '24
Fares to be advanced in Boston. Elec Ry J 64:745-6 O 25 '24
Important Boston proposal to extend rapid transit service over electrified railroad branches. Elec Ry J 64:329 Ag 30 '24
Reducing weight of rapid transit cars saves $108,000 a year; East Boston tunnel. J: Lindall. il diags Elec Ry J 64:269-74 Ag 23 '24
Relief effected by train operation in East Boston tunnel. E: Dana. il plan Elec Ry J 63:61-2 Ja 12 '24
Street railways, Boston. Monthly Labor R 18:110-13 Ja '24
$24,500,000 program; chairman of Boston trustees indicates need of extension of term of public control. Elec Ry J 63:346 Mr 1 '24
Wages and fares up in Boston. Elec Ry J 66: 563 O 3 '25

See also Boston Elevated railway

Sewerage

Metropolitan sewerage works. R. W. Loud. bibliog il diags map plans Boston Soc C E J 10:325-74 O '23; Excerpt. Eng & Contr (W W) 60:1239-42 D 12 '23

Streets

Boston street and highway improvements. Eng N 93:19 Jl 3 '24
Traffic relief planned for downtown Boston streets. Eng N 94:371 F 26 '25

Water supply

Boston water-supply to be investigated again. Eng N 92:1115 Je 26 '24

BOSTON & Maine railroad
Annual report, 91st, 1923. Comm & Fin Chr 118:1765-7 Ap 12 '24
Annual report, 92d, year ended Dec. 31, 1924. Comm & Fin Chr 120:1737-9 Ap 4 '25
Boston & Maine again fails to earn charges. map Ry Age 76: 1277-9 My 24 '24
Boston and Maine R.R. Moody's Inv Serv 17:139 Ap 23 '25
Boston & Maine railroad company gold 6s, 1933. Moody's Inv Serv 17:251 Jl 30 '25
Boston & Maine reorganization. G: B. Leighton. map Ry Age 78:325-7 Ja 31 '25
Boston & Maine reorganization—abandoning light traffic branches. Comm & Fin Chr 120: 2609-11 My 23 '25
Boston and Maine reorganization proposed. H. Loring. Ry Age 77:1157-8 D 27 '24
Chairman would abandon 1,000 miles of track and readjust finances of road. Comm & Fin Chr 119:3005-6 D 27 '24
Company securities. Moody's Inv Serv 17:23 Ja 15 '25
Highway operation designed to cut railway costs on B. & M. il map Bus Transportation 4:503-7 O '25
I.C.C. conducts B. & M. branch line abandonment hearings. Ry R 76:482 Mr 7 '25
Plan of reorganization. Comm & Fin Chr 120: 1876-7 Ap 11 '25; Same cond. Ry Age 78: 906-7 Ap 4 '25; Same. Ry R 76:707-8 Ap 11 '25
Rail-motor cars, buses and branch lines; Boston & Maine R.R. Eng N 94:819 My 14 '25
Reorganization plan amended. Comm & Fin Chr 121:1223-4 S 5 '25

BOSTON & New York air line
Boston & New York air line 1st 4s, 1955. Moody's Inv Serv 16:247 Je 19 '24

BOSTON & Worcester street railway
New reorganization plan. Comm & Fin Chr 119:2876 D 20 '24

BOSTON better business commission
Checkmating the get-rick-quick promoters. B. G. Priestley. Bankers M 111:317-23 S '25

BOSTON board of fire underwriters
Boston board of fire underwriters. F. E. Cabot. Spectator 113:73-4+ sec 2 Jl 17 '24

BOSTON Elevated railway
Annual report for 1923. Comm & Fin Chr 118: 901-2 F 23 '24
Annual report of trustees—year ended Dec. 31, 1924. Comm & Fin Chr 120:1449-50 Mr 21 '25; Elec Ry J 65:238 F 7 '25
Boston arbitration ended. Elec Ry J 64:399 S 13 '24
Boston begins educational program. Elec Ry J 65:256-7 F 14 '25
Boston Elevated pay held fair. Elec Ry J 66:794-5 O 31 '25
Boston L has new training school. il Elec Ry J 65:373-5 Mr 7 '25
Boston L trustees' problem. Elec Ry J 66:67 Jl 11 '25
Divided report on Boston Elevated. Elec Ry J 65:158-9 Ja 24 '25
Everett shops of Boston L pave way to maintenance economies. il diags plans Elec Ry J 64:871-4, 989-91, 1065-71; 65:173-8, 499-503 N 22, D 13, 27 '24, Ja 31, Mr 28 '25
Extension of public control proposed for Boston Elevated. J. F. Jackson. Elec Ry J 64:895-6 N 22 '24
Impressive presentation of traffic fluctuations at Boston. Elec Ry J 65:488 Mr 21 '25
Remarkable improvement in earnings in Boston in February. Elec Ry J 65:749 My 9 '25
Slight gain in Boston operation. Elec Ry J 66:261 Ag 15 '25
$679,632 gain for Boston Elevated. Elec Ry J 63:271-2 F 16 '24
$636,696 loss at Boston. Elec Ry J 65:560-2 Ap 4 '25
$25,100,259 spent by Boston "L" in five years —$10,000,000 more for 1924 and 1925. Elec Ry J 62:1103 D 29 '23

BOSTON fire, 1872
Summary of the Boston and Chicago conflagrations. E. R. Hardy. Spectator 112:4 My 8; 4 My 15 '24

BOSTON stock exchange
Getting Boston in back of her stock exchange. E. Dakin. Comm & Fin 13:1119-21 Je 11 '24
Stock and bond record, daily, weekly and yearly. Published in weekly numbers of Commercial and financial chronicle

BOSTON tidewater terminal, incorporated
How losses were changed into profits; Boston's army base dock. H. R. Simonds. il Marine R 55:339-43 S '25

BOSTON transcript
Newspaper upheld in refusal to accept advertising under provisions of Massachusetts minimum wage law. Ptr Ink 127:176 Je 19 '24

BOSWELLIA serrata
Constituents of the essential oil from the gum-oleo-resin of Boswellia serrata, Roxb. O. D. Roberts. Soc Chem Ind J 42:486-8 D 14 '23

BOTANICAL chemistry
Occurrence of free pentoses in plants; the effect of extraction of the sugars with ammoniacal alcohol. D. T. Englis and C. Hale. Am Chem Soc J 47:446-9 F '25

See also Cellulose; Pectins; Pentosans; Photosynthesis; Plants—Chemical analysis; Plants—Nitrogen content; Sap—Analysis

BOTANICAL gardens

See also Arnold arboretum

BOTANY
See Botanical chemistry; Forests and forestry; Paleobotany; Photosynthesis; Plant cells and tissues; Plants; Rubber plants and planting

BOTTLE capping machine
New bottle capping machine. il Am Exporter 95:107+ Ag '24

BOTTLE making machinery
British bottle-making machine. il (supp) diags Engineer 140:395-9 O 16 '25

BOTTLES
Action of potassium carbonate on lead glass. E. A. Coad-Pryor. Soc Chem Ind J 43:27-8 F 8 '24
See also Carboys

Manufacture
Manufacturing glass bottles. il diags Gas Age 54:133-4 Jl 26 '24

BOTTLING
Scientific handling of milk. G: F: Zimmer. il Ind Management (Lond) 10:307-10 N 29 '23
Vacuum filling machines for liquids and powders. il diag Engineering 119:475-6 Ap 17 '25; Génie Civil 87:66-7 Jl 18 '25

BOULOGNE
Harbor
Les améliorations du port de Boulogne récentes, en cours d'exécution, et projetées. A. Pawlowski. diags plans Génie Civil 84: 517-21 My 31 '24

BOULTON, Matthew, 1728-1809
Famous machinists of history. H. H. Manchester. por Am Mach 61:240 Ag 7 '24

BOUNDARIES
Geodetic survey aids non-federal agencies in boundary disputes. W: Mussetter. il map Eng N 93:458-61 S 18 '24
Legal battle of the states (Oklahoma v. Texas). W: B. Douglass. Prof Eng 10:26-7+ Ja; 25-8 F; 30 Jl '25
See also Colorado—Boundaries; United States—Boundaries

BOUNTIES
Argue for gold bonus in western Australia. Eng & Min J 120:269-70 Ag 15 '25

BOVERI, Walter, 1865-1924
Sketch. por Elec Ry J 64:866-7 N 15 '24; Elec W 84:1067 N 15 '24

BOVITE
Bullet-proof metal, Bovite, adapted for car bodies. il Automotive Ind 53:386 S 3 '25

BOWERY savings bank, New York
Making capitalists—200,000 of them. W. Bishop. Nation's Business 13:36-8 Jl '25
Winning of the emigrant. R. A. Lewis, jr. Am Bankers Assn J 17:435-8 Ja '25

BOWLING alleys
Lighting
Lighting designed for the standard bowling alley. il Am Inst E E J 42:1367 D '23

BOX cars. See Freight cars

BOX factories
Our new plant saves 10% of our production costs; Zinke-Roberts company. W. C. Roberts. System 47:662+ My '25

BOXBOARD. See Paper board

BOXBOARD association (proposed)
Proposed Boxboard association to succeed Paper industries exchange of Chicago and New York. Comm & Fin Chr 117:2830-1 D 29 '23

BOXER indemnity
Boxer indemnity. Engineer 138:356 S 26 '24
China to devote Chinese Boxer indemnity payments to educational and cultural purposes. Comm & Fin Chr 119:26 Jl 5 '24
Congress passes bill to provide for remission of further payments of Chinese Boxer indemnities. Comm & Fin Chr 118:2514-15 My 24 '24
United States remits final installments of Chinese Boxer indemnities. Comm & Fin Chr 121:403-4 Jl 25 '25

BOXES
Comparison of flat and round strapping. W. H. Sacket. diags Management & Adm 8: 525-6 N '24
Metal straps for boxes. Am Mach 61:143 Jl 24 '24
Packing and shipping. Factory 33:426+ S '24
Ships nails in boxes; Mexican plant builds up flourishing business by studying its market. Iron Age 116:1056 O 15 '25
See also Containers; Hosiery boxes; Paper box industry; Paper boxes

Specifications
Methods of packing for export. C. J. Priebe. il Am Mach 61:237-40 Ag 7 '24

BOXES, Paper. See Paper boxes

BOXES, Wirebound
Manufacture
Cutting shipping costs with the lightweight container; wirebound boxes. H. W. Hawk. il Management & Adm 8:367-70 O '24

BOY scouts
Boy scouts of America; what radio owes to them and what they owe to radio. P. Boucheron. il Wireless Age 11:38-9+ Je '24
Can you get boy scout sanction for your product? Ptr Ink 130:101-2+ Mr 26 '25

BOYCE Thompson institute for plant research, Yonkers, N.Y.
Boyce Thompson institute for plant research, Yonkers, N.Y. Arch & Bldg 56:93-4, pl 197-200 O '24
Discussion of the work at Boyce Thompson institute and its applications. W: Crocker. Illum Eng Soc 19:998-9 D '24
William Boyce Thompson founds institute for plant research. il Eng & Min J 118:552 O 4 '24
Work to date at Boyce Thompson institute for plant research on effect of light on plant growth. J: M. Arthur. Illum Eng Soc 19:995-7 D '24

BOYCE-ITE
Boyce, in pamphlet answers National petroleum news; we, in turn, answer him. Nat Pet N 16:27-31 O 8 '24
Boyce-ite promoters seek to sell jobbers on contract. Nat Pet N 16:61+ S 3 '24
Boyce-ite sales prohibited in Colorado under state law. V. B. Guthrie. Nat Pet N 16: 27 Ag 20 '24
Getting national distribution in a hurry; how Boyce-ite did the job. A. Belden. Ptr Ink 128:10+ Jl 31 '24
It's secret, states Boyce, when asked for proof of Boyce-ite claims. P. Truesdell. Nat Pet N 16:33-4 Ag 27 '24
Jobbers will handle Boyce-ite. Automotive Ind 50:1229 Je 5 '24
Sheffield school protests use of its report in Boyce-ite advertising. V. B. Guthrie. Nat Pet N 16:27-8+ Ag 13 '24

BOYLE'S law. See Gases

BRACHIOPODA, Fossil
New Midway brachiopod, Butler salt dome, Texas. J. Gardner. il Am J Sci 5th ser 10: 134-8 Ag '25

BRACING
Bracing plays a big part in the construction of large garages with trussed roofs. R. M. Singer. il Bldg Age 47:116-17 O '25
See also Wind pressure

BRACKENRIDGE, William Algernon
Portrait. Elec W 83:466 Mr 8 '24

BRADEN, Eugene Burford
Mine executives of note. por Eng & Min J 119:636 Ap 18 '25

BRADFORD, Pennsylvania
Former citizens of Bradford come home and find rousing reception. D. A. Dennison. il Nat Pet N 17:40+ Ag 19 '25

BRADFORD, Pennsylvania—*Continued*
Hundred years old, fifty years an oil center, Bradford will celebrate. L. E. Smith. il Nat Pet N 17:28-30 Jl 8 '25

BRADFORD Durfee textile school
Annual graduating exercises. Textile World 67:3700-1 Je 6 '25

BRADLEY, Philip R.
Mining engineers of note. Eng & Min J 118: 764 N 15 '24

BRADLEY knitting company
How a country-town failure became national success; Bradley knitting company. R. P. Crawford. Forbes 13:623-4+ Mr 1 '24

BRAID
Bleaching of cotton braids and tapes. J. M. Matthews. Color Tr J 16:111-14 Ap '25

BRAIDING machines
No. 16 Ideal high speed braider. il Textile World 66:1437 S 13 '24
Paragon Swift braiding machine. il Textile World 65:99 Ja 5 '24
Tober high-speed braiding machine. il Electrician 94:537 My 8 '25

Manufacture

Producing cores in quantities. H. R. Simonds. il Foundry 52:797-800 O 15 '24

BRAKE beams
A. R. A. report on brakes and brake equipment. diags Ry Age 78:1578-81 Je 20 '25; Ry Mech Eng 99:436-8 Jl '25
Huntoon brake beam guide and safety hanger. diag Ry Age 78:1475 Je 13 '25; Ry Mech Eng 99:591-2 S '25

BRAKE linings
Brakes used to retard or hold rotating parts. A. J. Whitcomb. il diags Ind Eng 82:317-20+ Jl '24

See also Brakes, Automobile—Relining

Manufacture

Manufacture of automobile brake lining. il India Rubber W 71:219-20 Ja '25
Manufacture of Raybestos brake and clutch linings. E. Sheldon. il Am Mach 62:727-30 My 7 '25

Testing

Bureau of standards improves brake lining test apparatus. H. Chase. il diag Automotive Ind 50:136-7 Ja 17 '24

BRAKE rigging
A.L.M. slack adjuster. diags Ry Mech Eng 98:50-1 Ja '24
Freight car foundation brake design. W. G. Stenason. diag Ry R 74:923-4 My 24 '24
Gould automatic slack adjuster for freight cars. il diag Ry Age 78:1479-81 Je 13 '25; Ry R 76:1084-5 Je 13 '25; Ry Mech Eng 99:594-5 S '25

BRAKE shoes
These well-designed brake shoes do not grind wheel flange. il diag Coal Age 28:507 O 8 '25

Manufacture

Make wheels and brakeshoes. P. Dwyer. il diag Foundry 52:707-12+ S 15 '24

BRAKES
Character of wheel and rail contact. J: P. Kelly. diags Ry Mech Eng 99:448-52 Jl '25
Emergency braking on electric cars. D. D. Ewing. il diags Purdue U Eng Exp Sta Bul 13:1-163 '23
First continuous automatic railway brake. J. Dunlop. Engineer 137:628 Je 6 '24
Getting full value from hand brakes on air-brake cars. J. S. McWhirter. plans Elec Ry J 64:383-5 S 13 '24
Hand brake power for freight cars. R. H. Blackall. diags Ry Mech Eng 99:287-9 My '25
Jemco hand brake with quick take-up and high force ratio. il Ry Age 77:802 N 1 '24; Ry R 74:385 Mr 1 '24; Ry Mech Eng 98: 767-8 D '24
Safety brake for boosters. D: Robertson. il diags Elec R (Lond) 94:246-7 F 15 '24
Service and construction of electrically-operated brakes used to retard or hold rotating parts. A. J. Whitcomb. il Ind Eng 82:271-5, 317-20+ Je-Jl '24
Solenoid brake on large bucket elevator. R. F. Emerson. diag Power 61:147-8 Ja 27 '25; Same. Cassier's Ind Management 12:302+ My '25
Solenoid load brakes for crane hoist motors. H. H. Vernon. Am Mach 61:23-4 Jl 3 '24
Stoll power brake. il Mach 30:651 Ap '24

See also Air brakes; Brakes, Track; Braking, Dynamic; Braking, Regenerative; Electric railroads—Braking; Railroads—Braking

Manufacture

Treating jobbers fairly spells success for machinery builder. E. C. Barringer. il Iron Tr R 76:1249-51 My 14 '25

BRAKES, Air. See Air brakes

BRAKES, Automobile
Advantages of four-wheel brakes demonstrated. il Automotive Ind 52:234 F 5 '25
Analysis of various four-wheel brake designs. Soc Auto Eng J 13:512-13 D '23
Automobile brakes. Soc Auto Eng J 16:399-400 Ap '25
Axle and wheels division report; passenger-car brake-drum dimensions proposed. Soc Auto Eng J 14:39 Ja '24
B-K booster brake utilizes vacuum of inlet manifold. il diag Automotive Ind 53:100-1 Jl 16 '25
Brake design and construction. H: M. Crane. Soc Auto Eng J 13:395-8 N '23; Same abr. Automotive Ind 49:824-7 O 25 '23; Discussion. Soc Auto Eng J 14:13-19 Ja '24
Brakes arouse lively discussion at S.A.E. Soc Auto Eng J 17:18-20 Jl '25
Brakes at the Olympia show. il Automobile Eng 13:379-84; 14:343-8; 15:381-7 N 22 '23, N 5 '24, O 29 '25
Brakes for motor vehicles. G: W. Watson. diag Automobile Eng 15:149-55 My '25; Abstract. Engineering 119:484 Ap 17 '25
Brakes, twos or fours? Soc Auto Eng J 14: 80-3 Ja '24
Cable and fittings for brakes. il Bus Transportation 4:400 Ag '25
Component front wheel brakes. il diags Automobile Eng 15:252-3 Ag '25
Development difficulties and the design of hydraulic-brake units. H. E. Maynard. diags Soc Auto Eng J 17:231-5 S '25
Development of a modern four-wheel mechanical braking-system. J. R. Cautley and A. Y. Dodge. il diags Soc Auto Eng J 17: 87-90 Jl '25; Abstract. Automotive Ind 52: 1128-30 Je 25 '25; Discussion. Soc Auto Eng J 17:470-2 N '25; Automotive Ind 52:1132-3 Je 25 '25
Device that takes care of worn brake linings and shoes. il Sci Am 130:107 F '24
Difficult problems involved in power braking for motor vehicles. P. M. Heldt. diags Automotive Ind 50:616-20, 656-60 Mr 13-20 '24
Engine as a brake. Sci Am 130:178 Mr '24
Engine vacuum does the braking. diag Bus Transportation 4:570 N '25
Engineers debate brake design at S.A.E. annual meeting. N. G. Shidle. Automotive Ind 50:213-20 Ja 31 '24
Engineers see tests and discuss brakes at Indiana section meeting. Automotive Ind 49: 1196-7 D 13 '23
L'étude des freins à mâchoires pour automobiles et appareils de levage. diags Génie Civil 84:452-4 My 10 '24
Fortschritte im kraftwagenbau. A. Heller. diags Zeit Ver Deutsch Ing 69:713-16 My 23 '25
Four-wheel brake adoptions generate sharp discussion in England. M. W. Bourdon. il diags Automotive Ind 49:1051-7 N 22 '23
Four-wheel-brake design. Soc Auto Eng J 14: 238-40 F '24
Four-wheel brakes. H: Perrot. diags Soc Auto Eng J 14:101-6 F '24; Abstract. Automotive Ind 50:216-19 Ja 31 '24; Discussion. Soc Auto Eng J 14:432-6 Ap '24

BRAKES, Automobile—*Continued*

Four-wheel brakes and fabric car bodies stand out as features of French production. W. F. Bradley. il diags Automotive Ind 51: 765-9 O 30 '24

Four-wheel brakes are most striking mechanical feature of New York show. P. M. Heldt. il diags Automotive Ind 50:64-70 Ja 10 '24

Four-wheel brakes for motor-cars. Engineering 117:438-9 Ap 4 '24

Four-wheel braking systems. F. A. S. Acres. Automobile Eng 14:115-18 Ap '24; Same cond. Automotive Ind 50:772-6 Ap 3 '24

Le freinage des automobiles. G. Delanghe. diags Génie Civil 86:86-9, 107-10 Ja 24-31 '25

Freins. G. Delanghe. diags Génie Civil 83:437-9 N 3 '23

French device automatically takes up slack in braking systems. diags Automotive Ind 49:1104-5 N 29 '23

Front brakes and balloon tires chief novelties at Olympia show. M. W. Bourdon. il diags Automotive Ind 51:799-802 N 6 '24

Fundamentals of brake design. O: M. Burkhardt. diags Soc Auto Eng J 17:64-73 Jl '25; Abstract. Automotive Ind 52:1130-2 Je 25 '25; Discussion. Soc Auto Eng J 17:462-9 N '25

Hydraulic four-wheel brakes for automotive vehicles. M. Loughead. diags plan Soc Auto Eng J 13:313-16 O '23; Abstract. Mech Eng 45:709 D '23; Discussion. Soc Auto Eng J 13: 316-21 O '23

Justification for the servo motor from an investigation of modern methods of four-wheel brake operation. W. A. Robotham. diags Automobile Eng 15:215-18, 258-61 Jl-Ag '25; Discussion. 15:251 Ag '25

Lockheed develops internal brake of the three-shoe type. diag Automotive Ind 51:975 D 4 '24

Mechanical and hydraulic forces combined in new Madden compensating brake. diags Automotive Ind 52:779-81 Ap 30 '25

More cars will have four-wheel brakes at national shows. J. E: Schipper. Automotive Ind 49:1049-50 N 22 '23

Motor brake inspection. Safety Eng 47:33-4 Ja '24

New device equalizes braking torque on opposite sides of car. diags Automotive Ind 52: 266-7 F 12 '25

New features involved in Studebaker brake linkage and transmission. il diags Automotive Ind 51:570-1 S 25 '24

New hydraulic brake system. diag Automotive Ind 50:615 Mr 13 '24

Novel brake mechanism and dozen new models are Paris show features. W. F. Bradley. plan Automotive Ind 51:633-5 O 9 '24

Oil lubricated floating cam features Locomobile front wheel brake. H. Chase. il diags Automotive Ind 49:994-5 N 15 '23

Packard adopts four-wheel brakes on single six. diag Automotive Ind 49:1304-5 D 27 '23

Passenger car brake and tire equipment. Automotive Ind 52:355 F 26 '25

Pierce-Arrow added to list of cars fitted with front-wheel brakes. diags Automotive Ind 50:5-6 Ja 3 '24

Recent patents reveal tendencies in brake design. diags Automotive Ind 51:520-2 S 18 '24

Le servo-frein Hallot, pour automobiles. diags Génie Civil 84:212-13 Mr 1 '24

Servo-mechanisms perfected so that slightest pedal pressure slows car. P. M. Heldt. diags Automotive Ind 51:1035-9 D 18 '24

Steeldraulic four-wheel mechanical brake has self-energizing feature. W. L. Carver. diags Automotive Ind 52:850-2 My 14 '25

Theory and advantages of balanced brake-forces. G: L. Smith. diags Soc Auto Eng J 14:111-16 F '24; Discussion. 14:436-7 Ap '24

To measure the stopping power of automobile brakes. il Sci Am 130:171 Mr '24

Twelve months' experience with four-wheel brakes. Automotive Ind 50:348 F 14 '24

Two types of brakes for front axles produced by Salisbury. diags Automotive Ind 50:344-6 F 14 '24

Vierradbremsen für kraftwagen. A. Heller. il diags Zeit Ver Deutsch Ing 69:1297-1300 O 10 '25

See also Air brakes, Automobile; Automobiles—Braking; Brakes, Motor bus

Manufacture

Machine built to grind brake drums. il Automotive Ind 52:551 Mr 19 '25

Machining parts for four-wheel brakes. E. Campbell. il diags Am Mach 61:465-7 S 18 '24

Machining Sheldon brakes, drums and spiders. F. H. Colvin. il Am Mach 60:387-9 Mr 13 '24

Manufacture of automobile brake lining. il India Rubber W 71:219-20 Ja '25

Manufacturing hydraulic four-wheel brake parts. J: Younger. il diags Am Mach 62: 795-8 My 21 '25

Relining

How a particularly stubborn installation problem was solved by the Raybestos company. B. R. Brooker. Ptr Ink 127:69-70+ Ap 17 '24

Kimball brake-band relining machine. il Am Mach 60:751-2 My 15 '24

Reliner used for drill press. il Bus Transportation 3:578 D '24

Weaver brake lining machine, hand-operated. il Bus Transportation 4:399 Ag '25

Standards

Brake-drum standard upheld. Soc Auto Eng J 14:493; 15:32 My, Jl '24

Brake-lining standard extended. Soc Auto Eng J 17:413 N '25

Motor-vehicle brake safety code. Soc Auto Eng J 17:318 O '25

Rigid brake-drums required. J: R. Cautley. Soc Auto Eng J 15:395-6 N '24

Safety code sectional committee takes action of tentative brake recommendations. Soc Auto Eng J 16:19-21 Ja '25

Testing

Brake-performance studies. W. S. James. il Soc Auto Eng J 14:236-8 F '24

Bureau of standards makes definite checks on brake performance. H. Chase. il diags Automotive Ind 49:1091-6 N 29 '23

Chrysler brake test stand; invention of C. H. Fennell. il Automotive Ind 53:413 S 10 '25

Cowdrey brake testing machine simplifies problem of equalization. il Automotive Ind 51:1079 D 25 '24

Decelerometer for testing automobile brakes. W: S. James. il Soc Auto Eng J 13:499-501, 522-3 D '23

Effect of balloon tires on braking. Soc Auto Eng J 14:469-70 My '24

Merits of four-wheel brakes proved before S.A.E. members. H. Chase. il chart diag Automotive Ind 50:603-7 Mr 13 '24

Special apparatus tests Rickenbacker brakes on assembly line. diags Automotive Ind 50: 621-3 Mr 13 '24

BRAKES, Hydraulic

Car retarders used in Europe. il diags Ry Age 79:743-6 O 24 '25

Development difficulties and the design of hydraulic-brake units. H. E. Maynard. diags Soc Auto Eng J 17:231-5 S '25

Lockheed develops internal brake of the three-shoe type. diag Automotive Ind 51:975 D 4 '24

Manufacturing hydraulic four-wheel brake parts. J: Younger. il diag Am Mach 62:795-8 My 21 '25

New hydraulic brake system. diag Automotive Ind 50:615 Mr 13 '24

BRAKES, Motor bus

Air-hydraulic brakes on six-wheels of double-decker. Bus Transportation 3:512-13 N '24

Six-cylinder bus has four-wheel brakes. il Bus Transportation 3:131-2 Mr '24

See also Air brakes, Motor bus

BRAKES, Motor truck

Disk type propeller shaft brake used on new 2½ ton truck. il diags Automotive Ind 49: 1198-9 D 13 '23

BRAKES, Motor truck—*Continued*
New G.M.C. trucks have four-wheel brakes as standard equipment. W. L. Carver. il Automotive Ind 52:610-13 Ap 2 '25

BRAKES, Track
Car retarders in hump yard effective in winter. il Ry Age 78:1143-5 My 9 '25
Car retarders used in Europe. il diags Ry Age 79:743-6 O 24 '25
Hump yard operates without car riders. il diag Ry Age 77:895-8 N 15 '24
Rail brakes in Germany. diag Ry Age 77:1038 D 6 '24
Track brake checks cars in yards. diags Eng N 93:598 O 9 '24
Track brakes control railway cars in gravity switching. Eng N 94:407 Mr 5 '25
Train movements centrally controlled in gravity yards. il diags Eng & Contr (Ry) 63: 143-7 Ja 21 '25
Verbesserung des schwerkraft-verschiebedienstes durch verbesserte bremstechnik. Wenzel. il diags Zeit Ver Deutsch Ing 68: 986-90 S 20 '24

BRAKES, Vacuum
Automobile brakes. Soc Auto Eng J 16:399-400 Ap '25
B-K booster brake utilizes vacuum of inlet manifold. il diag Automotive Ind 53:100-1 Jl 16 '25
Engine vacuum does the braking. diag Bus Transportation 4:570 N '25
Improved ejector for vacuum brakes. diags Engineer 138:276 S 5 '24

BRAKING
Theory and advantages of balanced brake-forces. G: L. Smith. diags Soc Auto Eng J 14:111-16 F '24; Discussion. 14:436-7 Ap '24

BRAKING, Dynamic
Novel application of dynamic braking on large slope hoist. R. W. McNeill. il diags Coal Age 25:35-9 Ja 10 '24
Safety features of electric motor drive for rubber mill lines. C. W. Drake. il Rubber Age 14:341+ F 10 '24
Synchronous motor drive for rubber mills; with special reference to dynamic braking control for safety stopping. C. W. Drake. il diags Am Inst E E J 44:350-3 Ap '25; Same. India Rubber W 72:530-3 Je '25; Discussion. Am Inst E E J 44:1122-6 O '25
Using series motors for dynamic-braking application. A. V. Narducci. diags Power 61:663 Ap 28 '25

BRAKING, Regenerative
Beitrag zur bestimmung des bremsdiagramms für gleichstromtriebwagen mit kurzschlussbremsung. H. Dollmann. Elektrotech Zeit 46: 616-17 Ap 23 '25
Characteristics of a d.c. series machine self-excited by rectified current for purposes of regenerative control. R. D. Archibald. diags Inst E E J 62:233-42 Mr '24; Discussion. 62: 648-50 Jl '24
Regenerative braking of induction motors. K. L. Hansen. Elec W 84:846-7 O 18 '24

BRANCH banking. See Banks and banking—Branch banking

BRANCH factories
Do branch plants pay? A. G. Anderson. Management & Adm 10:187-90 O '25

BRANCH houses
Branch manager tells his company how to advertise. J. Calvin. Ptr Ink 133:41-2+ N 5 '25
Making the branch a local institution. G: R. Wicker. Ptr Ink 132:17-20 S 10 '25
Selling consumers through 330 branches. D. Hubbard. Ptr Ink 128:85-6+ Ag 21 '24
Why Republic rubber company closed its branch houses. Sales Management 8:175-6 Ja 24 '25
Why we changed from the branch office plan. H. A. May. Sales Management 6:449 Ja '24

Accounting
Branch accounting. C: H. Brook. J Account 37:28-34 Ja '24; Same abr. Paper Tr J 78: 53-4 Je 12 '24

BRANCH management
How we get uniform output from widely separated plants; Goodyear tire and rubber company. P. W. Litchfield. il Factory 33:23-5+ Jl '24; Abstract. India Rubber W 73:37-8 O '25
Neglected branch manager and sales control. R: Warren. Ptr Ink M 10:41-2 F '25
We told our branch managers to go out and sell. W. Saunders. Sales Management 8:178+ Ja 24 '25

BRANCH managers
Convention stunt to show salesmen how Libby managers are selected. Sales Management 6:517-18 F '24
Where can a company find its branch managers? Ptr Ink 127:152 Je 5 '24

BRANDING
Walnut growers demonstrate branded produce brings better prices. Ptr Ink 131:77-8+ Je 4 '25

BRANDT, Edgar
Work of Edgar Brandt. L. V. Solon. il Arch Rec 57:94-6 Ja '25

BRANTFORD, Canada
Town planning progress at Brantford. A. E. K. Bunnell. Can Eng 47:334-6 S 16 '24

BRASHEAR, John A.
He loved the stars; excerpts from the autobiography of J: A. Brashear. por Mech Eng 46:511-15 S '24

BRASS
Brass, bronze and copper products, 1923. Metal Ind 22:491-2 D '24
Brass manufacturing progress. W. R. Clark. il Metal Ind 23:137-9 Ap '25
Briquetting of brass turnings. F. L. Wolf. Metal Ind 21:188 My '23; Same. Brass W 19:268 Ag '23; Same. Foundry 51:913 N 15 '23
Causes of red stains on sheet brass. E. A. Bolton. Iron Age 113:439-40, 507-8 F 7-14 '24; Same cond. Metal Ind 21:479-83 D '23
Copper and brass for the electroplater. H. H. R. Spofford. Brass W 20:212 Je '24
Copper and brass in the power house. W. G. Schneider. Power 62:365 S 8 '25
Density and constitution of the industrial brasses. G. L. Bailey and R. Genders. il Engineering 119:539-41 My 1 '25
Extrusion of brass rod by the inverted process. R. Genders. il diag plan Engineering 118:387-90 S 12 '24; Same cond. Am Mach 61:845-6 N 27 '24; Conclusions. Brass W 20: 351-2 O '24; Metal Ind 22:401 O '24
Further study of the dezincification of brass. C. F. Nixon. il Am Electrochem Soc Trans v 45 (preprint 3):29-41 Ap '24; Same abr. Brass W 20:381-4 N '24
High-speed cutting of brass and other soft metals in standard machine tools. L. D. Burlingame. il diags Mech Eng 47:705-12 S '25; Abstracts. Mach 32:17-18 S '25; Am Mach 63:438-9 S 10 '25
Influence of iron on copper. F. Johnson. Foundry 51:898-903 N 15 '23
Influence of lead and tin on the brittle ranges of brass. D. Bunting. il Engineering 119: 368-70; Discussion. 341 Mr 20 '25
Nickel in brass and white metal. W. M. Corse. Metal Ind 22:234-5 Je '24; Same. Brass W 20:397-8 N '24; Same cond. Foundry 52:487-8 Je 15 '24
Ordering the right kind of sheet brass. J. L. Christie. il Metal Ind 22:69-70 F '24; Same. Iron Age 113:783-5 Mr 13 '24
Progress of the brass and copper industry. W. A. Wood. Metal Ind 23:1-2 Ja '25
Properties of brass. Iron Age 114:141 Jl 17 '24
Romances of industry—brass. F. S. Chase. il Am Ind 24:5-9 D '23
Scrap problem in the small plant. R: C. Daniels. il Factory 34:615-18+ Ap '25
Specifying material for screw machine products. S. Fisher. diags Am Mach 62:225-8 F 5 '25
Static potentials of copper in solutions of copper cyanide in sodium cyanide and in potassium cyanide, and of zinc in solutions

BRASS—*Continued*
of zinc cyanide in sodium cyanide. W. M. Walker, J. H. Sorrels and J. M. Breckenridge. Am Electrochem Soc Trans v 48 (preprint 12):113-24 S '25
What is good brass? and why? H. A. Call. il Sanitary & Heat Eng 101:72-3+ F 8 '24
When ordering brass sheet, rod or tube. Iron Age 114:503-4 Ag 28 '24
See also Alloys; Brass founding; Brass foundries; Brazing; Tubes, Brass

Analysis
Analysis of brass and gunmetal. Chem Age (Lond) 11:[Met sec] 2 Jl 5 '24
Standard methods of chemical analysis of brass ingots and sand castings. Am Soc T M Standards 1923:30-9

Cleaning
Cleaning smoke off brass goods. Sheet Metal Worker 15:85-6, 291-2 F 29, My 9 '24

Testing
Brittle ranges in brass as shown by the Izod impact test. Engineering 117:350-2; Discussion. 344 Mr 14 '24; Engineer 137:290 Mr 14 '24
Corrosion of alpha-beta brass as affected by grain size. R. J. Anderson and S: H. Brooks. il diag Mech Eng 47:643-5 Ag '25
Endurance and inhomogeneities in nonferrous metals. H. W. Gillett and E. L. Mack. diags Am Soc T M Pro 24 pt 2:531-5 '24
Methods of determining physical properties of brass. A. A. Baldwin. il diags Brass W 20:77-9 Mr '24
Das verhalten von eisen, rotguss und messing in salzhaltigen wässern bei gewöhnlicher temperatur und bei den im dampfkessel herrschenden temperaturen und drücken. O. Bauer. il diags Stahl & Eisen 45:1101-9 Jl 9 '25

BRASS finishing
Some experiences in cooperation between finishing departments and the research department. J: L. Christie. Brass W 21:66-7 F '25

BRASS founding
Control of nonferrous castings. F. L. Wolf. Brass W 20:67-8 F '24
Cracked castings. H: C. Deterding. Brass W 20:84 Mr '24
Explains use of deoxidizers in nonferrous metals and alloys. C: Vickers. Foundry 52: 684-6 S 1 '24
Mexican brass founding. H. H. Miller. Brass W 20:437-8 D '24
Pouring temperatures control and quality of brass castings. F. L. Wolf and W: Romanoff. Foundry 53:436-7+ Je 1 '25
Shows kinks in brass casting. E. G. Jarvis. Foundry 52:134-5 F 15 '24
Some studies in mold handling. il plans Iron Age 116:272-4 Jl 30 '25
Temperature determination of molten metals. R. L. Binney and N. I. Terbille. Metal Ind 22:189-90 My '24
Temperature determination of non-ferrous alloys. R. L. Binney. Metal Ind 23:405-7; Discussion. 407 O '25
Test magnesium as brass deoxidizer. C. V. Nass. il Foundry 53:527 Jl 1 '25
Top pouring produces better castings. J. L. Sendner. Foundry 53:455-6 Je 1 '25
Uniform results in brass and bronze casting. Brass W 20:393 N '24
Use of nickel in the brass foundry. W. M. Corse. Brass W 21:317-20 S '25
See also Electric furnaces, Brass melting; Furnaces, Brass melting

BRASS foundries
Brass foundry for plumbers' fittings; the Speakman co., Wilmington, Del. il plan Iron Age 115:1767-70 Je 18 '25
Controlling brass shop detail. F. W. Rowe. Foundry 52:226-9 Mr 15 '24
Drop in, between revolutions; how the foundry business in Mexico must be cultivated. H. H. Miller. Iron Tr R 75:1302-4 N 13 '24
Handling materials in a brass foundry. T. C. Flinn. Metal Ind 23:407-8 O '25
Humanizing brass foundries. C: Vickers. il Foundry 52:185-9 Mr 1 '24
Impressions of British brass foundries. T: Harper. Metal Ind 22:60-3, 322-4 F, Ag '24
Making castings for lighting fixtures. H. R. Simonds. il Foundry 53:679-83 S 1 '25
See also Brass founding; Electric furnaces, Brass melting; Furnaces, Brass melting

Employees
What is a brass moulder? M. R. Lott. Metal Ind 22:395-6 O '24

Statistics
Decrease in foundries noted. maps Foundry 52:801-5 O 15 '24

BRASS industry and trade
Metals in 1924—outlook for 1925. R. L. Agassiz. Metal Ind 23:5 Ja '25

Exhibitions
Waterbury exhibition. R. Chase. Brass W 20: 253-4 Jl '24

BRASS pipes. See Pipes, Brass; Water pipes, Brass

BRASS plating
Brass solutions. J. Garde. Metal Ind 23:326 Ag '25
Brass solution. O. J. Sizelove. Metal Ind 22: 319 Ag '24
Standard methods of control of brass solutions. C: H. Proctor. Brass W 21:99-100 Mr '25

BRASS poisoning
Effects of brass dust on industrial workers. Monthly Labor R 20:1132-3 My '25

BRASS tubes. See Tubes, Brass

BRASS water pipes. See Water pipes, Brass

BRASS work
Extrusion and drawing of brass rod. J. Williams. il Am Mach 60:497-8 Ap 3 '24
Grading of brass goods. Dom Eng 105:427-9 D 1 '23

BRASS workers
See Brass foundries—Employees; Brass poisoning

BRASS works
Brass manufacturing progress. W: R. Clark. il Metal Ind 23:137-9 Ap '25
History and development of the Bridgeport brass company. A. D. Guion and others. il Metal Ind 23:311-21 Ag '25
Michigan copper and brass company. il Metal Ind 22:475-9 D '24
Novel motor drive in brass mill. G. L. Lacher. il Iron Age 116:733-7 S 17 '25

BRATTICE cloth
Millions of yards of cloth used in ventilating mines. il Textile World 67:2666 Ap 18 '25

BRAZIL
See also Bonds, Government—Brazil; Finance—Brazil; Railroads—Electrification—Brazil; Railroads—Brazil

Commerce
Commerce of Brazil. 17p Pan American union, Washington '24
Merchandising methods and trade conditions in the Amazon valley. W. L. Schurz. map U S Bur For & Dom Com Trade Information Bul 320:1-11 '25
Way to sell in Brazil. E. R. Murphey. il map System 46:588-91+ N '24
What Brazil buys. World's Markets 14:19-20 Ja '24
See also Coal trade—Brazil; Commercial law—Brazil

Economic conditions
Brazil: an economic review by states. R: C. Long. U S Bur For & Dom Com Trade Information Bul 349:1-32 '25
Brazil trade review for 1923. U S Bur For & Dom Com Trade Information Bul 284:1-18 '24

BRAZIL—Economic conditions—*Continued*
Brazil's economic problem. Economist 98: 1153-4, 1193-4 Je 7-14 '24
Economic conditions in Brazil. Elec R (Lond) 96:152-3 Ja 23 '25
Foreign securities in American markets—Brazil. Annalist 23:291+, 343+ Mr 3, 17 '24

Industries and resources

Industrial and financial conditions in Brazil. P. A. Carmine. Economist 98:494-6 Mr 1 '24
Why mining languishes in Brazil. T. T. Read. il Eng & Min J 117:4-12 Ja 5 '24

See also Coffee; Cotton—Brazil; Diamond mines and mining—Brazil; Gold mines and mining—Brazil; Mines and mineral resources—Brazil; Petroleum—Brazil

Politics and government

Military revolt in Brazil. Comm & Fin Chr 119:2247 N 15 '24
Sao Paulo; president's message to Congress. Economist 99:582-4 O 11 '24

BRAZIL nuts
Brazil-nut or castanha industry. A. O. Pierrot. U S Bur For & Dom Com Trade Information Bul 259:1-14 '24

BRAZILWOOD
What is brazilwood? C. D. Mell. il Textile Col 47:636-7 O '25

BRAZING
Brazing cracks in 30-in. cast-iron water pipe. il Eng N 93:148 Jl 24 '24
Brazing pipe joints. il Sanitary & Heat Eng 101:338-9 My 30 '24
Dip brazing. Metal Ind 22:190 My '24
Gas and brass. L. B. Crossman. il Gas Age 54:237 Ag 16 '24; Same. Brass W 20:338 O '24
Hard soldering or brazing. Sheet Metal Worker 16:491 Jl 31 '25
Thornton electric brazing machines. il Iron Age 113:1507 My 22 '24

BREAD
Bread and bread baking. J: Stewart. 113p [bibliog. p. 109] Pitman '24
Bread becomes big business. J: F. Fennelly. Comm & Fin 14:1753-4 S 16 '25
Bread making in the modern bakery. R. S. Billups. Monthly Labor R 17:1225-36 D '23
Chemical control of bread-making. C: Hoffman. Chem Age 32:251-2 Je '24
Chemistry of bread-making. B. V. White. Soc Chem Ind J (Chem & Ind) 43:542-3 My 23 '24
Chemistry of flour and bread making. R. Harcourt. bibliog Can Chem & Met 8:82-5 Ap '24
Making the staff of life by machinery. il Sci Am 133:48-9 Jl '25
Sub-committee *re* standard method of testing gas cookers. diags Gas J (Lond) 167: 130-48 Jl 2 '24
Symposium on bread. Ind & Eng Chem 15: 1215-32 D '23
That loaf of bread, 1924 model. I. K. Russell. il Nation's Business 12:13-16 D '24
La valeur boulangère d'une farine de froment. B. d'Arbouet. diags Chimie & Ind 14:21-8 Jl '25
Value of sweet potato flour in bread-making. H. C. Gore. Ind & Eng Chem 15:1238 D '23
What happens in the baking of bread? Sci Am 131:44 Jl '24

See also Flour; Yeast

Cooling

Bread cooling conveyor. G: F: Zimmer. il Ind Management (Lond) 10:256-8 N 1 '23

Cost

Margins of profit. Nat City Bank p 106-14 Jl '24

BREAKFAST foods

Advertising

Advertises better breakfasts to push cereal sales. Ptr Ink 130:163-4+ Ja 15 '25

BREAKFAST rooms
Cozy breakfast nook. B. F. Dashiell. diags Bldg Age 46:79+ Je '24
Interior architecture; planning and furnishing the breakfast room. il plan Am Arch 126:337-42 O 8 '24

BREAKWATERS
Beach erosion: its causes and cure. H. C. Ripley. plan Am Soc C E Pro 50:13-18 Ja '24; Same abr. Eng & Contr (W W) 61:104-6 Ja 9 '24; Discussion. Am Soc C E Pro 50: 529-42 Ap '24
Long Beach harbor improvements. diags plan Eng & Contr (G C) 63:1347-9 Je 17 '25
Les travaux d'extension du port du Havre. M. Michel-Schmidt. diags map (supp) Soc Ing Civils Bul 77:433-515, pl 74-5 Jl '24

BREAKWATERS, Concrete
Floating concreting plant for pier does rapid work. il diag Eng N 93:677-8 O 23 '24; Same. Cassier's Ind Management 12:148-9 F '25

BREATHER bags. See Oil tanks—Gas bag attachment

BREATHING
Lesson in breathing. H. N. Bundesen. Prof Eng 10:23-4 Jl '25

BRENEMAN, Abram Adam, 1847-
American contemporaries. E. Hendrick. por Ind & Eng Chem 16:864 Ag '24

BRENTANO'S book store, New York
Decoration as applied to modern retailing. il plan Am Arch 128:91-6 Jl 29 '25

BREST, France

Harbor

L'évolution et l'extension du port de Brest. A. Pawlowski. map plans Génie Civil 86:181-5 F 21 '25

BREUIL volume meter
Breuil volume-meter and the density of metals. H. O'Neill. il Engineer 140:sup105-6 Jl 31 '25

BREWERIES
Conveying in a Manchester brewery. Cassier's Ind Management 11:387, 420 Ag-S '24
Post-Volstead evolution; the United refrigeration & terminals company transforms a huge brewery. il plan Power 62:82-6 Jl 21 '25

By-products

Some uses of brewery by-products. A. L. Davidson. Can Chem & Met 8:233-4 O '24

BREWING
Chemical engineering and brewing. il Chem Age (Lond) 12:105 Ja 31 '25
Chemist and the fermentation industries. J. L. Baker. Chem Age (Lond) 11:493-4 N 15 '24
Institute of brewing research scheme. H: E. Armstrong. Soc Chem Ind J (Chem & Ind) 43:1051-2 O 24 '24

BREWING industries
Brewery profits. Economist 98:1045-6; 99:485 My 24, S 27 '24
Brewery workmen—Wilkes-Barre, Pa.; labor agreement. Monthly Labor R 21:551-2 S '25

BRIBERY, Commercial
Another blow at secret subsidies; band instrument makers oppose this evil. Ptr Ink 129:88+ D 11 '24
Bait for the sucker, not for business men. J. B. Gray. Inland Ptr 76:222-3 N '25
Business morality at the crossroads. S. Patterson. Ptr Ink 126:63-4+ F 21 '24
Too much Santa Claus; when salesmen send out Yuletide gifts. E. B. Weiss. Ptr Ink 132: 138+ S 3 '25

See also Salesmen, Retail—Bonuses

BRICK, Fire. See Fire brick

BRICK cleaning
Improved brick cleaning machine. il Eng & Contr (Bldgs) 62:903 O 22 '24

BRICK construction
Adequate building codes needed; Santa Barbara earthquake. il Brick & Clay Rec 67: 105-10 Jl 21 '25

BRICK construction—*Continued*

Brick, how to build and estimate. W: Carver. 5th ed. 72p Common brick manufacturers' assn. of America, Cleveland '24

Competing with frame in cost. W: Carver. diags Brick & Clay Rec 66:279+ F 17 '25

L'emploi des pierres silico-calaires pour la construction économique. Génie Civil 87:234 S 12 '25

Requirements for good brickwork. D. K. Boyd. Eng & Contr (Bldgs) 64:953-4 O 28 '25

Roughing-in brick apartments. il diags Bldg Age 46:125+ D '24

Skintled brick work. W: Carver. il Bldg Age 47:121 Ja '25

See also Brick houses; Bricklaying; Concrete brick; Masonry; Pavements, Brick; Roads, Brick; Sewers, Brick; Walls, Brick

Failures

Building collapse kills 43 in Boston. il Eng N 5:75, 115, 319 Jl 9-16, Ag 20 '25

Fire resistance

Fire tests of brick walls. il diag Am Arch 124:307-14, 355-62 S 26-O 10 '23; Abstracts. Brick & Clay Rec 63:617-19 O 30 '23; Safety Eng 46:279-83 D '23

Specifications

Brick masonry specifications. Am Arch 123: 341-3, 521-2; 124:38-40, sup18+, 537-9; 125: 175-7, 263-4, 357-60, sup12+, 539-42; 126:sup 12+ Ap 11, Je 6, Jl 4, Ag 29, D 5 '23, F 13, Mr 12, Ap 9, My 7, Je 4, Jl 2 '24

BRICK exchange insurance bureau, Chicago. See Chicago brick exchange—Insurance bureau

BRICK handling

Brick-handling fork. W: W. Wallace. diags Am Cer Soc J 7(Cer A 3):43 F '24

Shipping Hudson river common brick into New York by rail more economically than by barge. il Brick & Clay Rec 64:176-8 F 5 '24

BRICK houses

Garden homes at low cost; brick houses at Sunnyside, New York. M. Prosser. il plans Bldg Age 47:98-101 Mr '25

Model home movement will mean more, better and cheaper brick homes. il Brick & Clay Rec 66:818-20 My 26 '25

Prize winning brick home designs. il plans Bldg Age 46:88-9 F '24

Sturdy house of brick; blue print supplement, quantity survey. Bldg Age 47:130-6 Je '25

What a banker thinks of brick. J: P. Kennedy. Brick & Clay Rec 67:635 O 27 '25

BRICK industry and trade

American face brick association convention, Hot Springs, Va. Brick & Clay Rec 65:822-5 D 9 '24

Discuss practical brick sales ideas. Brick & Clay Rec 66:424-7 Mr 17 '25

Experience in handling face brick. E. R. L. Cadmus. Brick & Clay Rec 65:321 S 2 '24

How great is foreign brick menace? Brick & Clay Rec 63:763-4 N 27 '23

How I sell my brick. P. S. Belden. Brick & Clay Rec 67:36-7 Jl 7 '25

How we sell Finzer reds. R. C. Bahler. il Brick & Clay Rec 67:182-4 Ag 4 '25

Let's all work together. J. M. Adams. Brick & Clay Rec 63:844-6 D 11 '23

Principles of business conduct in the face brick industry. R. D. T. Hollowell. Brick & Clay Rec 65:524-8 O 14 '24

Reducing sales cost on face brick. G: P. Anderson. Brick & Clay Rec 65:760-1 N 25 '24

What dealer distribution means. F. L. Steinhoff. charts Brick & Clay Rec 64:252-5 F 19 '24

When you fix your selling price. J. A. Pugh. Brick & Clay Rec 66:292-3 F 17 '25

Why climb over when gate is open? distributing clay products thru lumber dealers. R. W. Tuller. il Brick & Clay Rec 65:239-41 Ag 19 '24

See also American face brick association; Bricks—Prices; Chicago brick exchange; Clay industries; Common brick manufacturers' association; National paving brick manufacturers' association

Advertising

Advertising acts as a life saver for a failing industry. C. W. Garrison. Ptr Ink 132:81-2+ S 10 '25

After four years—where are we? L: Grilk. charts Brick & Clay Rec 63:914-18 D 25 '23

Converting a city to brick. J. A. Foster. Brick & Clay Rec 66:437+ Mr 17 '25

Face brick in home town movie. il Brick & Clay Rec 66:663-4 Ap 28 '25

How to tie-in with your association advertising. R. R. Shuman. Brick & Clay Rec 63:922-3 D 25 '23

Newspaper advertising that paid. W. P. Dwyer. il Brick & Clay Rec 64:343-4 Mr 4 '24

We tell 'em where to buy. W. Bates. Brick & Clay Rec 66:826-7 My 26 '25

Statistics

Brick, 1921-1924. Survey of Cur Business 30: 113 F '24 [continued quarterly]

Common brick shipments and unfilled orders. Survey of Cur Business 45:27 My '25

Germany heaviest exporter of brick to U.S. Eng N 93:731-2 O 30 '24

Statistics on sand-lime brick. Brick & Clay Rec 64:181 F 5 '24

BRICK making. See Brickmaking

BRICK roads. See Roads, Brick

BRICK sewers. See Sewers, Brick

BRICK walls. See Walls, Brick

BRICK works

Alliance brick co. plant at Darlington, Pa. il Brick & Clay Rec 67:252-5 Ag 18 '25

Booth open fire tunnel kiln. il diags Brick & Clay Rec 65:680-3 N 11 '24

Manufacturing Summitville reds. il Brick & Clay Rec 67:111-12 Jl 21 '25

Modern brick plant. J. T. Robson. il Am Cer Soc J 8:159-70 Mr '25

Progress-on-the-Hudson; Dennings Point brick co. il Brick & Clay Rec 64:416-21 Mr 18 '24

Uncommonly good common brick plant. il diag Brick & Clay Rec 64:948-52 Je 24 '24

What's an old brick plant good for? Decatur brick manufacturing co. il Brick & Clay Rec 66:981-2 Je 23 '25

See also Brickmaking; Clay storage

Accounting

An adventure in accountancy. G. W. Greenwood. Brick & Clay Rec 64:425-6 Mr 18 '24

New cost formulas for firebrick. G: W. Greenwood. Management & Adm 9:261-4 Mr '25

Employees

How should we pay our labor? K. W. Dunwody. Brick & Clay Rec 67:558-9 O 13 '25

Our men like to work; Alliance (Ohio) clay products co. O. Wilcox. il Brick & Clay Rec 67:32-5 Jl 7 '25

See also Brickmakers

Equipment

First time on any brick plant. il Brick & Clay Rec 66:428-30 Mr 17 '25

Making 100,000 brick with 44 men; Camp Brothers co. il Brick & Clay Rec 66:973-6 Je 23 '25

Saves labor of ten miners; underground loader; electric locomotives. il Brick & Clay Rec 67:330-2 S 1 '25

$10,000 well spent saves many thousands yearly. D. W. Taylor. il Brick & Clay Rec 65:31-3 Jl 8 '24

Would electric trucks help you? H. J. Payne. il Brick & Clay Rec 67:256-9 Ag 18 '25

See also Clay handling

Management

Controlling varied production. O. J. Whittemore. il Brick & Clay Rec 66:350-2 Mr 3 '25

Power

Brickyard uses 1,000 hp. in motors. G. R. Mitten. Elec W 86:126-7 Jl 18 '25

BRICK works—Power—*Continued*
Synchronous motor drive in brick plant. R. H. Triem. il Elec W 85:1137-8 My 30 '25

Waste

Elimination of waste in the heavy clay products industry. M. W. Blair. Am Cer Soc J (Bul) 7:55-8 F '24

BRICKLAYERS
Campaign for more bricklayer apprentices. Monthly Labor R 19:221-2 Jl '24

BRICKLAYERS, masons and plasterers international union
Throwing bricks at the plasterers. Comm & Fin 14:1667 S 2 '25

BRICKLAYING
Bad weather and brick laying. Am Ind 25: 34 Ja '25
Bricklayers average 1,364 brick per day in fifteen cities. Eng N 94:299 F 12 '25; Eng & Contr (Bldgs) 63:430 F 25 '25
Bricklaying; with suggestive courses of training for apprentices and journeymen workers. 140p U.S. Fed. bd. for vocational educ., Washington '24
Electric heat and bricklaying. S. F. Meyers. il Elec W 85:983-4 My 9 '25
Laying brick in cold weather. W: Carver. Bldg Age 45:63+ D '23
New way of laying brick; Brownlow method. il Bldg Age 46:87 Ag '24
New way to lay brick; Carver economy wall. diags Bldg Age 47:146+ Mr '25
Practical bricklaying. H. L. Briggs. Rev. & enl. ed. 223p McGraw-Hill '24
Practical bricklaying; in six sections. A. Hammond. 14th ed., rev. 116p Van Nostrand '24
Some notes on English brickwork. J: Y. Dunlop. il diags Bldg Age 47:144-5 S '25
See also Masonry

Cost

Concrete block and clay brick compared. Eng & Contr (Bldgs) 63:886-7 Ap 24 '25
Labor productivity and costs in certain building trades. E. Stewart. Monthly Labor R 19: 946-7, 949-53 N '24; Excerpt. Arch Forum 42:29-30 Ja '25
Relative cost of laying concrete block and clay brick masonry; tabulation. A. J. R. Curtis. Concrete 23:240 D '23

BRICKLAYING machines
K erector, brick laying machine. Eng & Contr (Equip R) 64:731 S 30 '25
Machine lays 1200 to 1500 brick per hour and leaves correct window and door openings. Eng & Contr (Bldgs) 60:1369-70 D 26 '23
Mechanical bricklayer. diags Brick & Clay Rec 65:169-70 Ag 5 '24

BRICKMAKERS
Brick and clay workers' agreement. Monthly Labor R 19:1080-1 N '24
Brickmakers, Chicago; new agreement, made May 1, 1924. Monthly Labor R 20:563-7 Mr '25

BRICKMAKING
Bibliography and abstracts on the utilization of pebbly clays for heavy clay products manufacture. F. T. Heath. Am Cer Soc J (Bul) 8:165-88 Ap '25
Brick at less cost. W. D. Richardson. il diag Am Cer Soc J 7:614-19 Ag '24
Bricks from spent shale. Chem Age (Lond) 11:466 N 8 '24
Bricks without straw. Bradstreet's 52:526 Ag 16 '24
Burn brick in direct fired tunnel kiln. il Brick & Clay Rec 64:576-80 Ap 15 '24
Burning brick with city gas. il Brick & Clay Rec 65:167-8 Ag 5 '24
Burning clear shades of red brick. F. H. Johnson. Brick & Clay Rec 67:551-2 O 13 '25
Can they make stiff mud brick on the Hudson river? il Brick & Clay Rec 65:380-2 S 16 '24
Combating laminations and improving the brick structure. D. Brown. Am Cer Soc J 7:274-6 Ap '24
Dead burning of dolomite. J. T. Robson and J. R. Withrow. il Am Cer Soc J 7:300-11, 397-409 Ap-My '24
Exit the brick yard. H. H. Wikle. il diags Chem & Met Eng 31:807-8 N 24 '24
Face brick by Chicago methods. T. B. Huestis. Brick & Clay Rec 67:554-5 O 13 '25
Gas in brick firing. H. F. Podhaski. Am Gas J 121:782-3 Ag 23 '24
How bricks are made in Chicago. il Brick & Clay Rec 66:108-16 Ja 20 '25
How is flashing done? C. F. Tefft. Brick & Clay Rec 65:332-3+ S 2 '24
How John Chinaman makes brick and tile. il Brick & Clay Rec 67:483 S 29 '25
How Kier fire brick are made. il Brick & Clay Rec 67:403-6 S 15 '25
How whitewash can be prevented. H. C. Meyer. Brick & Clay Rec 66:128 Ja 20 '25
Making common brick on a wholesale scale. il Brick & Clay Rec 66:900 Je 9 '25
Manufacture of slag, brick and other slag products. C. E. Ireland. Manuf Rec 86:85-6 N 20 '24
Manufacturing district makes own brick. E. P. Querl. Concrete 27:32 Jl '25
Mechanical handling equipment in face brick manufacture. G. L. Montgomery. il Chem & Met Eng 31:413-16 S 15 '24
Modern methods of brick making. F. B. McFarren. Can Eng 48:569 Je 9 '25
New French system of brick manufacture. Am Cer Soc J 7 (Cer A 3):126 My '24
New type of brick plant. J. T. Robson. Brick & Clay Rec 66:349-50 Mr 3 '25
Oxidation of ceramic wares during firing; a quantitative study of the nature of sulphur evolution in kiln-firing. F: G. Jackson. Am Cer Soc J 7:634-42, 656-62 Ag-S '24
Problem of shading. J. G. Seanor. Brick & Clay Rec 66:758-9 My 12 '25
Producing face brick with aid of manganese. R. J. Otten. Brick & Clay Rec 65:255+ Ag 19 '24
Producing 225,000,000 soft mud bricks annually. il Brick & Clay Rec 65:674-9 N 11 '24
Progress report on research of paving brick from Iowa shales. D. A. Moulton. Am Cer Soc J 8:694-701 N '25
Recommended specification for quicklime and hydrated lime for use in the manufacture of sand-lime brick. U S Bur Stand Circ 150: 1-6 '23
Sand-lime brick process. Soc Chem Ind J (Chem & Ind) 43:508 My 16 '24
Saving fuel in firing common brick. W. D. Richardson. Am Cer Soc J (Bul) 4:254-60 Je '25
Setting soft mud brick mechanically. Brick & Clay Rec 65:600-1 O 28 '24
Some unavoidable heat losses in the use of periodic systems. R. H. Armstrong. Am Cer Soc J 7:423-6 Je '24
Uniformly better clay products. H. Wilson. Brick & Clay Rec 64:872-5 Je 10 '24
Utilization of Georgia kaolins in the manufacture of face brick. R. T. Stull and G. A. Bole. Am Cer Soc J 7:347-58 My '24
When forced draft is used. il Brick & Clay Rec 67:408-9 S 15 '25
Why do preliminary crushing? il Brick & Clay Rec 66:983-6 Je 23 '25
See also Brick works; Kilns

Bibliography

Descriptive bibliography of scumming and efflorescence. F. G. Jackson. Am Cer Soc J (Bul) 8:376-401 Ag '25

Costs

Fuel costs for burning clay ware. Brick & Clay Rec 64:650-1 Ap 29 '24
Labor cost in common brick. Brick & Clay Rec 66:120-2 Ja 20 '25
Productivity costs in common-brick industry. W: F. Kirk. U S Bur Labor Statistics Bul 356:1-71 '24
Where costs can be cut. L. B. Rainey. Brick & Clay Rec 66:908-10 Je 9 '25

BRICKMAKING—*Continued*

Safety devices and measures

Organized safety work cuts costs in brick making. P. S. Trowbridge. il Nat Safety N 10:20 O '24

BRICKMAKING machinery

Developments in dry pan construction. P. B. Reed. diags Brick & Clay Rec 65:322-3 S 2 '24

Grinding clays. D. Brown. il Brick & Clay Rec 64:734-6 My 13 '24

Ideal unit for dry press brick. B. F. Cake. diag Brick & Clay Rec 65:388 S 16 '24

New brick making unit eliminates pug-mill man. W. H. Merkel. il Brick & Clay Rec 64:508-9 Ap 1 '24

Pressing silica brick by machine. il Brick & Clay Rec 65:456-7 S 30 '24

Super-industrious brick-making machine. il Sci Am 131:101 Ag '24

See also Auger machines

BRICKS

Ash and clinker bricks; abstract. Soc Dyers & Col J 40:309 S '24

Le moler et ses applications. P. Hannover. il diags Chimie & Ind 12:807-15 N '24

Sorting and grading face brick. H. F. White. Brick & Clay Rec 63:329 S 4 '23; Same. Eng & Contr (Bldgs) 61:709-10 Mr 26 '24

See also Adobe; Brick construction; Brick industry and trade; Bricklaying; Brickmaking; Clay; Clay industries; Concrete brick; Fire brick; Hollow tile; Masonry; Pavements, Brick; Roads, Brick; Silica brick; Tile

Cleaning

Renovating brickwork. A. A. Kelly. Bldg Age 46:96+ Ja '24

Color

Application of iron to improve the color of red burning clays. D. A. Moulton. Brick & Clay Rec 66:824 My 26 '25

Burning clear shades of red brick. F. H. Johnson. Brick & Clay Rec 67:551-2 O 13 '25

Color in clay wares. A. Carena. diag Brick & Clay Rec 64:652-5 Ap 29 '24

Definition

Recommended minimum requirements for masonry wall construction. Am Arch 128: 333-4 O 5 '25

Prices

Common brick prices, Chicago; tabulation. D. H. Maury. Eng & Contr (W W) 61:1042 My 14 '24

What's happened to New York brick? il Brick & Clay Rec 65:242-3 Ag 19 '24

Specifications

Government specifications for brick. Brick & Clay Rec 65:104-5 Jl 22 '24

Standard specifications for clay sewer brick. diags Am Soc T M Standards 1923:54-9

Storage

Storage rack for arch brick. J. Smith. diag Ry Mech Eng 99:300 My '25

Testing

Equalizer apparatus for transverse tests of bricks. H. L. Whittemore. il diags U S Bur Stand Tech Pa 251:107-13 '24

Factors affecting brick masonry strength. S. H. Ingberg. diag Am Soc T M Pro 24 pt 2:909-19 '24

See also Fire brick—Testing

Transportation

Shipping Hudson river common brick into New York by rail more economically than by barge. il Brick & Clay Rec 64:176-8 F 5 '24

BRICKS, Concrete. See Concrete brick

BRIDGE approaches

Motor road from Haifa to Acre in Palestine. P. W. Etkes. il map plans Eng N 92:314-15 F 21 '24

Street planning for relief of congestion at bridges. C: W. Leavitt. Eng N 92:974-5 Je 5 '24

BRIDGE design

American metal bridges fifty years ago. C. Gayler. il Eng N 95:385-6 S 3 '25

Analysis of the stresses in the ring of a concrete skew arch. J. C: Rathbun. il diags Am Soc C E Pro 50:133-74 F '24

Anchorages of the bridge over the Delaware river between Philadelphia and Camden. A. Dana. il diags plans J Fr Inst 198:291-313 S '24

Bear Mountain suspension bridge over Hudson river. H. C. Baird. il diags Eng N 93: 914-18 D 4 '24

Bridge architecture from the engineer's view point. J. R. Greene. Eng & Contr (Bldgs) 62:463-8 Ag 27 '24

Bridge reconstruction work of the Ministry of transport. il diags Engineering 119:250-3, 262, 377-9, 658-60, 755-7, 768, pl 48 F 27, Mr 27, My 29, Je 19 '25

British design for 180-ft. span concrete bridge. F. Johnstone-Taylor. diag Concrete 25:186-7 N '24

Bronx parkway bridges tested by heavy loads. A. G. Hayden. il diags Eng N 91:934-6 D 6 '23

Building a concrete arch around an old iron bridge at Pulaski, New York. E. H. Harder. il diags Eng N 92:320-3 F 21 '24

Calcul des hourdis des tabliers d'ouvrages d'art en béton armé. F. Chaudy. diags Génie Civil 86:531-3 My 30 '25

California begins construction of Douglas memorial bridge. H. D. Miller. il Eng N 93:506-7 S 25 '24

Competitive designs for the Sydney Harbour bridge. diags Engineering 118:129-32 Jl 25 '24

Concrete arch bridge of unusual form and details. W. H. Rabe. diags Eng N 95:750-1 N 5 '25

Concrete bridge with longest arch completed in France. il diags Eng N 92:476-9 Mr 20 '24; Discussion. A. Escher. 92:737 Ap 24 '24

Construction of Lorne bridge, Brantford, Ont. F. P. Adams. il diags plan Can Eng 47: 493-7 N 11 '24

Continuous-girder bridges of concrete. J. F. Seiler. il diags Eng N 95:722-5 O 29 '25

Delaware river bridge between Philadelphia and Camden. R. Modjeski. il diags plans W Soc E J 28:229-48 Je '23; Same abr. Can Eng 46:203-10 F 5 '24; Excerpt (Webb plate compression tests). Eng & Contr (Bldgs) 60: 159 Jl 25 '23

Design of a multiple-arch system and permissible simplifications. A. C. Janni. diags Am Soc C E Pro 57:755-94, pl 2-4 Ag '24; Discussion. 50:1315-18, 1515-26, 1582-95; 51: 93-129 O '24-Ja '25

Design of the Florianopolis suspension bridge. D. B. Steinman. il diags Eng N 93:778-82 N 13 '24; Discussion. 93:883 N 27 '24

Design of works on open channels. F. V. Elsden. il diags Engineer 137:440-2 Ap 25 '24

Detroit Belle Isle bridge a reinforced concrete cantilever structure. il diags Concrete 23: 213-16 D '23

Development of reinforced concrete bridge design. A. E. Lindau. Ry R 74:613-17 Mr 29 '24

Early methods of proportioning structures. Eng & Contr (Bldgs) 61:707-8 Mr 26 '24

Economical design for arch centres. A. E. Wynn. il diags Engineering 118:257-9, pl 26 Ag 22 '24; Same. Eng & Contr (Bldgs) 62: 1161-6 N 26 '24; Same abr. Can Eng 48:341-3 Mr 24 '25

L'élargissement du pont Doumer sur le fleuve Rouge, à Hanoï (Tonkin). C: Dantin. il diags Génie Civil 86:397-9, pl 4 Ap 25 '25

BRIDGE design—*Continued*
Final report on specifications for design and construction of steel highway bridge superstructure. Am Soc C E Pro 50:265-90 Mr '24
France plans to build 672-ft. span reinforced-concrete bridge. diags Eng N 92: 860-1 My 15 '24
Girder discarded for arch in grade separation. il diags Eng N 95:503 S 24 '25
Humber river highway bridge, Toronto. A. B. Crealock. il diags plans Can Eng 47:431-7 O 21 '24
Hydraulic surveys aid design of highway bridges. P. K. Schuyler. il map Eng N 94: 312-14 F 19 '25
Improvement in highway bridge design. C. J. Desbaillets. il Can Eng 49:517-19 N 3 '25
Limite admissible pour la charge de rouleaux en contact avec des chemins de roulement plans. Dumas. diag Génie Civil 85:323-4 O 11 '24
Long girder spans for reinforced concrete bridge. diags Ry R 75:202-5 Ag 9 '24
Long span girder bridge over the Enz. W. Stortx. diags Concrete 27:23 Jl '25
Method of designing partially fixed arch bridges. A. G. Hayden. diag Eng N 93:150-1 Jl 24 '24
Mountain pass highway bridge built on sharp curve; Pacheco creek, California. H. D. Miller. il diags Eng N 94:278-9 F 12 '25; Same. Concrete 27:9-10 Jl '25
New bridge over the Tweed. diags Engineer 138:665 D 12 '24
New Brown bascule bridge. T: E. Brown, jr. il diags W Soc E J 29:195-208 Ap '24
New York Central R.R. erects remarkably heavy bridge on new connecting line. H. T. Welty. il plans Ry R 75:988-90 D 20 '24
Outstanding problems in highway bridge design. E. F. Kelley. il Eng & Contr (R & S) 61:296-302 F 6 '24; Same. Can Eng 46:374-6 Mr 25 '24; Same. Good Roads 66:106-8 Ap '24; Same. Munic Eng 67:128-33 Mr '24
Planning and construction of New York Central lines' new Hudson river bridge. H. T. Welty. il diags plans Eng N 94:466-74 Mr 19 '25
Pont cantilever suspendu rigide, sur le Trieux, à Lézardrieux (Côtes-du-Nord). G. L. Le Coco. il diags Génie Civil 87:1-8, pl 1 Jl 4 '25
Le pont Pasteur, en béton armé, sur le Rhône, à Lyon. il diags plans Génie Civil 84:53-7, pl 2 Ja 19 '24
Proposed Bay bridge over San Francisco's harbor. il Am Arch 127:233-4 Mr 11 '25
Research and experimental tests in connection with the design of the bridge over the Delaware river between Philadelphia and Camden. C. E. Chase. il diags J Fr Inst 200:417-36 O '25
Rigid suspension bridge design with wire cables. D. B. Steinman. il diags Eng & Contr (Bldgs) 63:1377-86 Je 24 '25
Secondary stresses in bridges. C. V. von Abo. diags Am Soc C E Pro 50:969-1117, pl 6-7 [bibliog. p. 1115-17] S '24; Discussion. 50: 1600; 51:130-9, 289-301, 406-21, 644-53, 1114-17, 1456-74 D '24-Ap, Ag-S '25
Segmental girder construction as applied to the Scherzer rolling lift bridge. C. P. Hazelet. il diags W Soc E J 29:187-94 Ap '24
Some engineering aspects of a toll bridge project; Bear Mountain bridge. H. H. Sherwin. maps Eng N 94:778-9 My 7 '25
Something new in bridge design; spanning the famous entrance to San Francisco harbor. il diag Sci Am 131:258+ O '24
Steel bridge weights. W. H. Thorpe. diags Engineering 120:534-8, pl 32 O 30 '25
Strauss bascule bridge over the Bann river, Ireland. E. S. Needham. il plan Engineering 118:758-9, pl 78-80 D 5 '24
Structural design of bridges in Grant Park. C. R. Hoyt. diags plans W Soc E J 30:420-34; Discussion. 434-6 O '25
Tentative specifications for steel highway bridge superstructure; discussion. Am Soc C E Pro 49:1607, 2072-81; 50:89-107, 329-42 S, D '23-Ja, Mr '24
Three new Allegheny river bridges to be of unusual type. diags map Eng N 93:995-7 D 18 '24
Towers, cables and stiffening trusses of the bridge over the Delaware river between Philadelphia and Camden. L. S. Moisseiff. diags J Fr Inst 200:436-66 O '25
Trough-shaped concrete bridge resists flotation. C. A. Bock. il diags map Eng N 95: 416-19 S 10 '25
Two parkway bridges planned by engineer and architect; Scarsdale and Valhalla. A. G. Hayden. il diags plans Eng N 95:16-19 Jl 2 '25
Unusual problems in design and construction of large bridges. R. Modjeski. il J Fr Inst 199:597-617 My '25
Viaduct is built of reinforced concrete and encased steel; Roosevelt Road viaduct built in two parallel sections. il diags Eng N 95: 297-9 Ag 20 '25
Web-plates in compression members. C. E. Chase. Engineering 120:378-9 S 25 '25
Wider and stronger road bridges for California. Eng N 94:890 My 28 '25

See also Arches; Arches, Concrete; Bridge approaches; Bridges—Abutments; Bridges, Arched; Bridges, Cantilever; Bridges, Suspension; Elevated railroads; Trestles; Trusses

BRIDGE failures
Automobile strikes end post of bridge. F. F. Healey. il Eng N 94:1023 Je 18 '25
Bascule counterweight falls; drops bridge near Montreal. Eng N 91:861 N 22 '23
Bending action in bascule bridge counterweight failures. il Eng N 91:872-3, 1069, 1070 N 29, D 27 '23
Cofferdam wrecked by splitting of concrete seal. C. B. McCullough. diags plans Eng N 92:460-1 Mr 13 '24; Discussion. 92:501, 738 Mr 20, Ap 24 '24
Counterweight rope of bascule bridge breaks. Eng N 93:115 Jl 17 '24
Damages awarded in Chester bridge collapse case. Eng N 95:770 N 5 '25
Failure to clean bottom results in defective pier bases. Eng N 95:221 Ag 6 '25
Old fracture causes collapse of bridge at Onoco, Conn. Eng & Contr (R & S) 61:1255-6 Je 4 '24; Eng N 93:142 Jl 24 '24
Old highway bridge collapses at Dayton, Ohio. il diags Eng N 93:236, 683 Ag 7, O 23 '24
Settlement of piers endangers Waterloo bridge. il Eng N 92:1059 Je 19 '24

BRIDGE moving
Moving an English railway plate girder on special track and cars. il Eng & Contr (Ry) 61:837-9 Ap 16 '24
Shifting Brigitta bridge in Vienna. il diags Engineer 139:428-9 Ap 10 '25
Tidal power lifts concrete bridge span. il Eng N 92:1107 Je 26 '24

BRIDGE painting
Recommended practice for sandblasting and painting steel bridges. F. G. Schworm. diag Eng N 92:772-3 My 1 '24; Discussion. 92: 909, 1112; 93:74 My 22, Je 26, Jl 10 '24
Waterproofing a highway bridge; methods and costs of air brush work. il Eng & Contr (R & S) 63:1193-6 Je 3 '25

BRIDGE railing
Bridge railing with precast posts adopted as standard. il diags Eng N 92:939 My 29 '24
Strength of concrete bridge rail and pressure of crowd; Springfield balustrade fails. il diag Eng N 94:200-1 Ja 29 '25

BRIDGE traffic
Secondary effect of certain important river bridges on local transit conditions. J: A. Miller, jr. maps Am Soc C E Pro 50:389-400 Ap '24; Discussion. 50:863-73, 1124-8, 1303-5 Ag-O '24
Street planning for relief of congestion at bridges. C: W. Leavitt. Eng N 92:974-5 Je 5 '24
Traffic over state toll bridges in Connecticut. Eng & Contr (R & S) 60:1168 D 5 '23

BRIDGEPORT brass company
History and development of the Bridgeport brass company. A. D. Guion and others. il Metal Ind 23:311-21 Ag '25

BRIDGES
Bridge engineering. G. Lindenthal. il Eng N 92:652-7 Ap 17 '24
Bridge engineering fifty years ago. C. Herschel. il Eng N 94:814-15 My 14 '25
Bridges and culverts for highways. H. H. Shaw. Can Eng 47:303-4 S 2 '24.
Decauville track bridge in Persia. diag Eng N 93:272 Ag 14 '24
French bridges. F: N. Weaver. il Boston Soc C E J 12:329-30 S '25
Highway bridges in Quebec. Can Eng 48:470 My 5 '25
Mountain pass highway bridge built on sharp curve; Pacheco creek, California. H. D. Miller. il diags Eng N 94:278-9 F 12 '25
Neglect of small highway bridges. S. E. Berkenbilt. Eng N 93:680-1 O 23 '24
New Hazelton bridge in Indiana. C. H. Parrish. il Good Roads 56:4+ Ja '24
New York law jeopardizes highway bridge safety. Eng N 93:726 O 30 '24
Old bridges of simple type still in service in Pennsylvania. il diag Eng N 93:549-50 O 2 '24
Pioneer type of log bridges. il Eng & Contr (R & S) 61:979 My 7 '24
Rheinbrücken. M. Carstanjen. il Zeit Ver Deutsch Ing 69:1049-56 Ag 8 '25
Small bridges and culverts. H. McNichol. Can Eng 49:132 Jl 14 '25
Small bridges and culverts. A. Sedgwick. Can Eng 48:281-2 Mr 3 '25
Some bridges of 1923. il (supp) Engineer 137: 25 Ja 4 '24
Southern road and bridge work in 1924. Manuf Rec 87:89 Ja 1 '25
Treated timber bridges in Wyoming. J. F. Seiler. Eng & Contr (Bldgs) 61:1386 Je 25 '24

See also Bridge design and other headings beginning Bridge; Bridges, Railroad; Culverts; Elevated railroads; Girders; Highway administration; Highway engineering; Highway law; Hudson river bridges; Pontoon bridges; Trestles; Trusses; *also* subdivision Bridges under names of cities, e.g. Chicago, Illinois—Bridges; New York (city) —Bridges; Philadelphia—Bridges; San Francisco—Bridges

Abutments
Earth pressure against abutment walls measured with soil pressure cells. J. V. McNary. diags plan Pub Roads 6:102-6 Jl '25; Abstract. Pub Works 56:277-9 Ag '25
High reinforced concrete abutment near Cairo, Ill. il Eng & Contr (R & S) 62:1038 N 5 '24
Michigan Central Niagara bridge abutments completed. il Eng N 92:398-9 Mr 6 '24
Novel abutment effects economy in concrete bridge. A. G. Hayden. il plan Eng N 93:26-7 Jl 3 '24
Walking a bridge across a road. S: P. Baird. il Eng & Contr (R & S) 63:1227-9 Je 3 '25

Approaches
See Bridge approaches

Cost
Delaware river bridge cost increased $8,340,169. Eng N 93:396 S 4 '24
Report on Toronto viaduct. Can Eng 47:323 S 9 '24

Design
See Bridge design

Erection
Cantilevering a heavy bridge span in northern Quebec. J. P. Chapleau and C. M. Goodrich. il diag Eng N 93:94-5 Jl 17 '24
Castleton bridge is monumental structure. H. T. Welty. il diags Ry R 77:583-8 O 17 '25
Construction of Gerrard street bridge. J. S. Burgoyne and G. Alison. il Can Eng 46: 573-5 Je 3 '24
Creosoted timber highway bridge, over Mullica river. il diags Eng & Contr (R & S) 64: 1001-3 N 4 '25
Erecting a bridge in Palestine by longitudinal rolling. P. W. Etkes. il diag Eng N 93:16-17 Jl 3 '24
Erecting a new road bridge in Ceylon. il diag Engineer 140:56-7, 64 Jl 17 '25; Same. Eng & Contr (Bldgs) 64:485-6 Ag 26 '25
Erecting seven simple spans without falsework. il diag plan Ry Age 77:630-2 O 11 '24
Erecting steel highway bridge 70 miles from railroad. J. R. Driggs. Eng & Contr (R & S) 60:986-7 N 7 '23
Erecting the highest state highway bridge in Colorado over the Lake Fork of the Garrison river at Sapinero. il Eng & Contr (R & S) 61:1209-11 Je 4 '24
Erection of the temporary Waterloo bridge. il Engineering 119:762-4 Je 19 '25; Engineer 139:686, 701-4 Je 19-26 '25
Long spans of Hudson river bridge erected by progressive cantilever method. H. T. Welty. il diags Eng N 94:561-7 Ap 2 '25
Michigan Central R.R. completes Niagara arch. il diags plan Ry R 76:448-58 Mr 7 '25
New Niagara Gorge arch nearing completion. il diags Ry Age 77:830-6 N 8 '24; Eng N 93:716-18 O 30 '24
Special creeper traveler used in erecting bridge towers. C: Carswell. il Eng N 92: 165-6 Ja 24 '24
Staging on flatcar saves time in driving bridge pins. il Eng N 92:413 Mr 6 '24
Unusual problems in design and construction of large bridges. R. Modjeski. il J Fr Inst 199:597-617 My '25
Walking a bridge across a road. S: P. Baird. il Eng & Contr (R & S) 63:1227-9 Je 3 '25

Fire stops
Safeguarding long highway bridge from fire and other damage. il diags Eng N 94:722-3 Ap 30 '25

Fires
Some bridge fires in Texas. Eng N 95:304 Ag 20 '25

Floors
Bridge floorbeam shears off under load. E: Godfrey. il Eng N 92:274 F 14 '24
Care of bridge floors. C. Piper. Eng & Contr (R & S) 63:717-18 Ap 1 '25
Concrete pavement on timber floor of bridge approach trestle. il Eng N 95:683 O 22 '25
Continuous or discontinuous floor slabs for bridges. J. L. Albers. Eng N 94:865 My 21 '25
Largest American installation of rubber paving; Michigan avenue bridge, Chicago. il India Rubber W 71:139-40 D '24
Planchers à poutrelles en acier ou en bois avec hourdis en béton armé. F. Chaudy. diags Génie Civil 85:89-91 Jl 26 '24
Pre-cast concrete flooring and paving units. il diags Can Eng 49:211-12 Ag 11 '25
Quick setting cement in bridge construction. A. L. Hambrecht. Eng & Contr (R & S) 64: 557 S 2 '25
Rubber pavements on bridges. il Pub Works 55:342 N '24
Rubber paving and high curb guards on Chicago bridge. diags Eng N 93:795 N 13 '24
Steel traffic treads for wooden bridge floors. il Eng & Contr (R & S) 62:549 S 3 '24
Strengthening and re-decking old bridge for heavy traffic. L: E. Moore. il diag Eng N 94:692-5 Ap 23 '25
Unique paving construction on a Boston bridge. H. M. Steward. il diag Eng & Contr (Ry) 63:139-41 Ja 21 '25
Use of quick-setting cement allows early completion of Maryland bridge. B. T. Weston. il Eng N 94:741 Ap 30 '25; Discussion. 94:865 My 21 '25
Waterproofing of railroad bridges. G. A. Haggander. diags W Soc E J 30:260-74 Je '25; Same cond. Ry R 76:156-7, 161-4 Ja 17 '25; Abstract. Ry Age 78:239-40 Ja 17 '25

BRIDGES—Floors—*Continued*
Widening the Missouri river highway bridge at Omaha. il diags Eng N 94:1006-10 Je 18 '25

Foundations and piers

Bridge over the Second Narrows, B.C. P. Ward. il diag Can Eng 48:353-4 Mr 31 '25
Bridge pier 228 ft. high for Yosemite Valley railroad. il plan Eng N 95:554 O 1 '25
Constructing reinforced concrete foundations of Delaware river bridge anchorages. C: Carswell. il diags plans Concrete 24:103-10 Mr '24
Construction in winter season. A. M. Bouillon. Eng & Contr (G C) 64:905-9 O 21 '25
Construction of the Neponset bridge. J. S. Crandall. il diags Boston Soc C E J 12:232-43 My '25
Deep-water bridge foundation of concrete pipe piles. il diag map Eng N 94:568-70 Ap 2 '25
Design of works on open channels. F. V. Elsden. il diags Engineer 137:440-2 Ap 25 '24
Detail design of large bridge columns. C. L. Christensen. Eng N 95:546-8 O 1 '25
Failure to clean bottom results in defective pier bases. Eng N 95:221 Ag 6 '25
Foundations for bridges in Pueblo flood control project. il diags map Eng N 93:903-5 D 4 '24
Hollow concrete bridge piers built like chimneys for Dix river bridge. il Eng N 93:757 N 6 '24; Concrete 25:236 D '24; Discussion. Eng N 93:924; 94:164-5 D 4 '24, Ja 22 '25
Jackson street subway, Camden terminal. il diags plan Ry R 75:279-81 Ag 23 '24
Large pier caissons built, launched on their sides; Newark bay bridge. il Eng N 93:441 S 11 '24
Method of grouting foundation for highway bridge. Eng & Contr (R & S) 60:994-5 N 7 '23
Old foundations used in replacing steel by concrete span. F. W. Epps. il diags Eng N 94:234-5 F 5 '25
Placing concrete in water. J. P. McMakin. Eng & Contr (R & S) 63:487-8 Mr 4 '25; Abstract. Eng N 93:434 S 11 '24
Planning and construction of New York Central lines' new Hudson river bridge. H. T. Welty. il diags plans Eng N 94:467-9 Mr 19 '25
Removing bridge pier by blasting. Eng & Contr (G C) 64:171-2 Jl 15 '25
Reprise en sous-œuvre de la pile médiane d'un pont-rails sur le Rhin, à Bâle. diags Génie Civil 86:317 Mr 28 '25
Rust-jointing Delaware River bridge approach column bases. P. M. Sax, jr. Eng N 95:275-6 Ag 13 '25
Safeguarding long highway bridge from fire and other damage. il diags Eng N 94:722-3 Ap 30 '25
Simple and efficient grouting outfit. R. W. Cropper. il Eng N 93:149-50 Jl 24 '24
Sinking pier caissons for four Missouri river bridges. L. J. Sverdrup. il charts Eng N 93:628-30 O 16 '24
Sinking pneumatic and open caisson foundations for Philadelphia-Camden bridge. C: Carswell. il diags Eng N 94:920-6 Je 4 '25
Some faults in foundation planning. J. L. Harrington. Eng N 95:187 Jl 30 '25
Stone bridge piers 80 years old found in poor condition. il Eng N 95:716 O 29 '25
Suspension bridge pier foundation built by unusual method. il Eng N 93:51 Jl 10 '24
Tamping, dragging and rolling consolidates new fill. G: G. Bryson. il plan Ry Age 78: 557-60 Mr 7 '25; Same. Eng & Contr (G C) 63:823-7 Ap 17 '25
Timber cribs floated to place for bridge piers at Portland, Ore. il diag plan Eng N 95: 584-5 O 8 '25
Unusual problems in design and construction of large bridges. R. Modjeski. il J Fr Inst 199:597-617 My '25

See also Bridges—Abutments; Bridges, Suspension—Anchorage; Caissons; Cofferdams; Piles and pile driving

Load

Loading on old highway bridge reduced by narrowing roadway. il Eng N 93:699 O 30 '24
Loads on highway bridges. diags Engineering 120:172 Ag 7 '25
Outstanding problems in highway bridge design. E. F. Kelley. il Eng & Contr (R & S) 61:296-302 F 6 '24; Same. Can Eng 46:374-6 Mr 25 '24; Same. Good Roads 66:106-8 Ap '24; Same. Munic Eng 67:128-33 Mr '24
Proposed loading for highway bridges. H. D. Hussey. diag Am Soc C E Pro 49:1031-7 Ag '23; Same. Eng & Contr (Bldgs) 60:363-7 Ag 22 '23; Discussion. Am Soc C E Pro 49:1901-13; 50:291-5 N '23, Mr '24
Strengthening old bridges. L: E. Moore. diags Boston Soc C E J 9:223-33 N '22; Same. Eng & Contr (Bldgs) 59:225-9 Ja 24 '23; Same. Can Eng 45:569-71 D 11 '23; Discussion. B. W. Guppy. Boston Soc C E J 9:233-6 N '22; Same. Eng & Contr (Bldgs) 59:209-10 Ja 24 '23

Maintenance and repair

Bridge renewal under traffic. il Ry R 73:726-7 N 17 '23
Corroded structure repaired by welding; successful work on a Pittsburgh bridge. diags Eng & Contr (Bldgs) 62:899 O 22 '24
Example of metallic-arc welding in bridge repair. il diags Gen Elec R 27:555 Ag '24
Highway bridge maintenance. H. P. Henning. il Eng & Contr (R & S) 63:274-5 F 4 '25
Règles scientifiques pour le reinforcement des constructions en maçonnerie. C: Rabut. Génie Civil 85:379 O 25 '24
Reinforcing a cast-iron bridge in France. diags Eng N 94:603 Ap 9 '25
Repairing a skewed and displaced bridge roller bearing. C: F. Draper. il diag Eng N 92:810 My 8 '24
Salvaging old stone bridge with cement gun. W. D. McClusky, jr. Eng & Contr (Bldgs) 61:703 Mr 26 '24
State highway bridge maintenance in North Carolina. Eng & Contr (R & S) 62:15 Jl 2 '24
Strengthening old bridges. L: E. Moore. diags Boston Soc C E J 9:223-33 N '22; Same. Eng & Contr (Bldgs) 59:225-9 Ja 24 '23; Same. Can Eng 45:569-71 D 11 '23; Abstract. Can Eng 44:512 My 22 '23; Discussion. B. W. Guppy. Boston Soc C E J 9:233-6 N '22; Same. Eng & Contr (Bldgs) 59:209-10 Ja 24 '23
Supporting a weak bridge for large overload. il Eng & Contr (Bldgs) 61:213 Ja 23 '24
Unique paving construction on a Boston bridge. H. M. Steward. il diag Eng & Contr (Ry) 63:139-41 Ja 21 '25

See also Bridges—Reconstruction; Bridges, Concrete—Maintenance and repair; Bridges, Iron and steel—Maintenance and repair

Protection

Protecting highway bridges from colliding vehicles. E. F. Kelley. il Eng N 91:892-3 N 29 '23

See also Bridge painting; Bridges—Fire stops; Bridges, Iron and steel—Protection

Reconstruction

Bridge-raising program on the Allegheny river in Allegheny county. V. R. Covell. Eng Soc W Pa 41:81-97; Discussion. 98-104 Ap '25
Bridge reconstruction work of the Ministry of transport. il diags Engineering 119:250-3, 262, 377-9, 658-60, 755-7, 768; 120:249-51, pl 48 F 27, Mr 27, My 29, Je 19, Ag 28 '25
Cast iron bridge reconstructed in ferro-concrete. F. Johnstone-Taylor. diag Concrete 26:168 My '25

BRIDGES—Reconstruction—*Continued*
L'élargissement du pont Doumer sur le fleuve Rouge, à Hanoï (Tonkin). C: Dantin. il diags Génie Civil 86:397-9, pl 4 Ap 25 '25
Missouri river bridge rebuilt for heavier loading. Eng N 94:144 Ja 22 '25
Old foundations used in replacing steel by concrete span. F. W. Epps. il diags Eng N 94:234-5 F 5 '25
Old steel arch utilized in new reinforced concrete structure. C: F. Bornefeld. il diags Concrete 23:102-6 S '23; Same. Eng & Contr (Bldgs) 61:447-54 F 27 '24
Rapid bridge renewal on N.Y.C.R.R. Eng & Contr (G C) 63:1342-5 Je 17 '25
Rapid rebuilding of steel viaduct in a busy Chicago street. Eng N 92:621 Ap 10 '24
Rebuilding the first Budapest suspension bridge. J. Beke. il diags plan Eng N 92: 1096-9 Je 26 '24
Reconstruction of the C. & N.W. Ry. bridge over the Missouri river near Blair, Neb. O. F. Dalstrom. il diags map W Soc E J 30: 49, 50-69 F '25; Same. Ry R 76:190-7 Ja 24 '25; Abstract. Ry Age 77:931-4 N 22 '24
Reconstruction of White River bridge, De Valls Bluff, Ark. for C.R.I. & P. Ry. A. S. Armstrong. il diag W Soc E J 30:352-9 Ag '25; Same abr. Ry Age 78:875-8 Ap 4 '25
Replacing a bridge in four hours. il Eng & Contr (Ry) 61:1371-2 Je 18 '24
Replacing railway truss span with two girder spans; the Bluff Creek bridge. il diags Eng N 93:870-1 N 27 '24
Restoring a steel bridge after landslide movement. E. K. Triol. il Eng N 94:112-13 Ja 15 '25
Strengthening and re-decking old bridge for heavy traffic. L: E. Moore. il diag Eng N 94:692-5 Ap 23 '25
Waterloo bridge. J. J. Robson. Engineering 117:584-5, 766 My 2, Je 13 '24
Wrecked bridge span raised bodily from bay bottom. il Eng N 93:307-8 Ag 21 '24; Eng & Contr (Bldgs) 62:669-70 S 24 '24

See also Bridges—Maintenance and repair; Bridges—Widening

Smoke chambers and ducts

Fans to avoid smoke nuisance in Chicago Union station. diags plan Eng N 92:929-31 My 29 '24

Specifications

See also Bridges, Iron and steel—Specifications

Stresses

Accurate recording guage; Fereday-Palmer stress recorder employed in determining actual stresses in bridge members. Can Eng 45:414 O 16 '23; Same. Eng & Contr (Bldgs) 61:1424-5 Je 25 '24
Automatic stress recorder. R. S. Whipple. il diag Can Eng 48:116-17 Ja 6 '25; Same. Eng & Contr (Bldgs) 63:205-7 Ja 28 '25
Impact tests on highway bridges. il Pub Roads 5:10-13 S '24; Eng N 93:621-2 O 16 '24; Concrete 26:31 Ja '25
Interaction in bridgework of the deck system on the main girders and the consequent modification of stresses therein. D. H: Remfry. Engineering 117:380-1 Mr 21 '24
Preliminary impact studies—Skunk river bridge on the Lincoln highway near Ames, Iowa. A. H. Fuller. (Eng. exp. sta. bul. 63) 31p Iowa state college of agric. and mech. arts, Ames '22
Secondary stresses in bridges. C. V. von Abo. diags Am Soc C E Pro 50:969-1117. pl 6-7 [bibliog. p. 1115-17] S '24; Discussion. 50: 1600; 51:130-9, 289-301, 406-21, 644-53, 1114-17, 1456-74 D '24-Ap, Ag-S '25
Secondary stresses in steel riveted bridges. O. H. Ammann. diags Eng N 93:666-8 O 23 '24
Steel bridge stress recorders. F. Johnstone-Taylor. il diag Can Eng 47:649-50 D 30 '24
Stress distribution tests of concrete continuous girder bridge. Eng N 92:1065 Je 19 '24

See also Bridges—Load

Testing

Metrocline; a new instrument for testing bridges. il diags Engineering 117:237 F 22 '24

See also Bridges, Concrete—Testing; Bridges, Iron and steel—Testing

Tolls

Controversy over tolls delays Delaware river bridge work. Eng N 94:1074 Je 25 '25
Safeguarding long highway bridge from fire and other damage. il diags Eng N 94:722-3 Ap 30 '25
Some engineering aspects of a toll bridge project; Bear Mountain bridge. H. H. Sherwin. maps Eng N 94:778-9 My 7 '25
Toll bridge possibilities. Eng N 93:816-17 N 20 '24
Tolls or taxes. Eng N 95:167 Jl 30 '25
Traffic over state toll bridges in Connecticut. Eng & Contr (R & S) 60:1168 D 5 '23

Weight

Steel bridge weights. W. H. Thorpe. diags Engineering 120:534-8, pl 32 O 30 '25

Widening

L'enlargissement du pont-route sur le Rhin, à Düsseldorf. diags Génie Civil 87:21 Jl 4 '25
Widening the Missouri river highway bridge at Omaha. il diags Eng N 94:1006-10 Je 18 '25

Width

Ohio requires wider road bridges on 1924 work. W. H. Rabe. Eng N 93:56 Jl 10 '24

Wrecking

Gas cuts bridge into scrap. O. E. Dunlap. il plan Iron Age 115:1637 Je 4 '25

BRIDGES, Arched
Accepted design for Sydney Harbor bridge, Australia. il Sci Am 130:391 Je '24
Adjustable steel centering for concrete arch bridges. diag Concrete 24:217 My '24; Same. Eng & Contr (Bldgs) 61:1402 Je 25 '24
Arlington memorial bridge, District of Columbia; views and plan. Am Inst Arch J 12:65-71 F '24
Big Four cutoff involves monumental bridge; relocation at Sidney, Ohio. il map Ry Age 77:99-103 Jl 19 '24; Same. Eng & Contr (Ry) 62:847-54 O 15 '24
Bridge architecture. il diag plan Am Arch 124:545-54 D 19 '23
Building a concrete arch around an old iron bridge at Pulaski, New York. E. H. Harder. il diags Eng N 92:320-3 F 21 '24
Concrete arch bridge of unusual form and details. W. H. Rabe. diags Eng N 95: 750-1 N 5 '25
Concrete bridge with longest arch completed in France. il diags Eng N 92:476-9 Mr 20 '24; Discussion. A. Escher. 92:737 Ap 24 '24
Construction methods and plant for Conneaut viaduct. il diag Eng N 92:1046-9 Je 19 '24
Construction of Lorne bridge, Brantford, Ont. F. P. Adams. il diags plan Can Eng 47:493-7 N 11 '24
Design and construction of the Hill-to-Hill bridge, Bethlehem, Pa. F. W. Skinner. il diag Munic & Co Eng 66:286-92 Je '24
Economical design for arch centres. A. E. Wynn. il diags Engineering 118:257-9, pl 26 Ag 22 '24; Same. Eng & Contr (Bldgs) 62: 1161-6 N 26 '24; Same abr. Can Eng 48:341-3 Mr 24 '25
Efforts du vent sur les ponts en arc. E. Baticle. Génie Civil 85:218 S 6 '24
Governor's bridge at Rosedale, Toronto. F. G. Engholm. il diags Can Eng 46:389-92 Ap 1 '24
Humber river highway bridge, Toronto. A. B. Crealock. il diags plans Can Eng 47:431-7 O 21 '24
Long span concrete arch design in France. C: S. Whitney. diags Eng N 93:463-6 S 18 '24
Longest concrete bridge span includes deck suspended from arch ribs; Seine bridge at Saint-Pierre-du-Vauvray. H: J. Harms. il diags Concrete 24:138-40 Ap '24

BRIDGES, Arched—*Continued*
Longest reinforced concrete bridge of its type in the world; Alexander bridge. il Sci Am 130:177 Mr '24
Measured changes in shape of multi-arch bridge. P. L. Brockway. il diag Eng N 93: 304-6 Ag 21 '24
Method of designing partially fixed arch bridges. A. G. Hayden. diag Eng N 93:150-1 Jl 24 '24
Michigan Central R.R. completes Niagara arch. il diags plan Ry R 76:448-58 Mr 7 '25
New bridge over the Niagara. il Engineer 139:490, 492 My 1 '25
New bridge over the Tweed. diags Engineer 138:665 D 12 '24
New M.C.R. bridge over Niagara river. il Can Eng 48:101-3 Ja 6 '25
New Niagara Gorge arch nearing completion. il diags Ry Age 77:830-6 N 8 '24; Eng N 93:716-18 O 30 '24
Le nouveau pont en béton armé, sur la Seine, à Saint-Pierre-du-Vauvray (Eure). il diags Génie Civil 83:417-21 N 3 '23
Les nouveaux ponts de Fribourg (Suisse). C: Dantin. il map Génie Civil 84:317-19, pl 4 Ap 5 '24
Novel abutment effects economy in concrete bridge. A. G. Hayden. il plan Eng N 93:26-7 Jl 3 '24
Pipe lines on bridges. P. L. Brockway. il diags Pub Works 55:239-41 Ag '24; Same. Eng & Contr (Bldgs) 64:217-19 Jl 22 '25
Progress report of the special committee on concrete and reinforced concrete arches. Am Soc C E Pro 51:[Soc aff]129-34 Mr '25
Proposed new Harvard bridge, Boston, Massachusetts. Am Inst Arch J 13:206-10 Je '25
Le renforcement au moyen de béton du pont métallique de Pulaski (États-Unis). P. Caufourier. il Génie Civil 85:175-7 Ag 23 '24
Repairing a failed concrete arch at Asheville. J: B. Hutchings, jr. il Eng N 95: 430-1 S 10 '25
Rib-arch concrete highway bridge over Rock river, Ill. W. S. Todd. il diag Eng N 94:643-4 Ap 16 '25
St Clair avenue bridge, vale of Avoca. G. Alison and N. G. Stewart. il diag map Can Eng 48:141-4 Ja 20 '25
Six-span concrete arch highway bridge at Danville. H. H. Edwards. il Eng N 92: 896-8 My 22 '24
Six studies of bridge arches. B. J. Lubschez. Am Inst Arch J 11:425-30 N '23
Steel to replace stone; High Bridge, New York city. il Sci Am 132:181 Mr '25
Timber arch bridges in Australia. il Eng N 95:637 O 15 '25
Two reinforced-concrete bridges in France. W. L. Scott. il diags Eng N 91:916-18 D 6 '23
Unusual spandrel-braced arch bridge built at Portland. O. Laurgaard. il diags Eng N 93: 328-30 Ag 28 '24
Le viaduc en béton armé de Plougastel sur l'estuaire de l'Elorn, près de Brest. il diags Génie Civil 84:221-2 Mr 8 '24
Washington memorial bridge at Wilmington. il Sci Am 130:319 My '24
Washington memorial bridge, Wilmington, Delaware. V. W. Torbert. il Arch Forum 39:295-8, pl 102-3 D '23
Western Gateway bridge over the Mohawk river at Schenectady, N.Y. il diags Concrete 24:248-50 Je '24; Same. Eng & Contr (Bldgs) 62:176-7 Jl 23 '24

BRIDGES, Bascule
American bridge type bascule bridge. A. Reichmann. il diags W Soc E J 29:177-81 Ap '24
Bascule bridge for China at Tientsin. Eng N 93:923 D 4 '24
Bascule bridge patent suit heard in Chicago. Eng N 93:1009 D 18 '24
Bridge over the Second Narrows, B.C. P. Ward. il diag Can Eng 48:353-4 Mr 31 '25
Completion of Johnson street bridge. F. H. Allwood. il Can Eng 46:633-5 Je 24 '24
Counterweight rope of bascule bridge breaks. Eng N 93:115 Jl 17 '24
Design and construction of highway lift bridge over Mystic river at Mystic, Conn. W: G. Grove. Munic Eng 65:262-4 D '23
An English rolling bascule bridge over the river Wensum at Norwich, England. il diags Eng & Contr (Bldgs) 61:1183-7 My 28 '24
Florida East Coast railway completes bridge. il Ry R 77:269-72 Ag 22 '25
Lackawanna will construct lift bridge over Buffalo river. diag map Ry R 76:813-15 My 2 '25
New Brown bascule bridge. T: E. Brown, jr. il diags W Soc E J 29:195-208 Ap '24
Rall bascule bridge. E: Haupt. il W Soc E J 29:182-6 Ap '24
Rim bascule bridge at Inchinnan; electrical operation. il Electrician 92:542 My 2 '24
Segmental girder construction as applied to the Scherzer rolling lift bridge. C. P. Hazelet. il diags W Soc E J 29:187-94 Ap '24
Strauss bascule bridge over the Bann river, Ireland. E. S. Needham. il plan Engineering 118:758-9, pl 78-80 D 5 '24
Trolley arrangement on bascule bridge. C. L. Greer. diags Elec Ry J 65:139-40 Ja 24 '25

BRIDGES, Cantilever
Cantilever highway bridge across Carquinez Strait. C. Derleth, jr. diags map plan Eng N 95:504-7 S 24 '25
Cantilevering a heavy bridge span in northern Quebec. J. P. Chapleau and C. M. Goodrich. il diag Eng N 93:94-5 Jl 17 '24
Long spans of Hudson river bridge erected by progressive cantilever method. H. T. Welty. il diags Eng N 94:561-7 Ap 2 '25
New cantilever bridge designed with architects' co-operation. N. F. Brown. il Eng N 95:107 Jl 16 '25
Sliding river banks dictate cantilever bridge. Eng N 95:294 Ag 20 '25
Small concrete cantilever bridge at Sambhar, India. S. A. Bunting. il diag Eng & Contr (Bldgs) 63:616-18 Mr 25 '25

BRIDGES, Concrete
Adjustable steel centering for concrete arch bridge. diag Eng & Contr (Bldgs) 61:1402 Je 25 '24; Same. Concrete 24:217 My '24
Analysis of the stresses in the ring of a concrete skew arch. J. C: Rathbun. il diags Am Soc C E Pro 50:133-74 F '24
Big Four cutoff involves monumental bridge; relocation at Sidney, Ohio. il map Ry Age 77:99-103 Jl 19 '24; Same. Eng & Contr (Ry) 62:847-54 O 15 '24
Bridge building on an Indiana state highway. il diags Eng N 94:804-6 My 14 '25
Bridge erected in new manner. il Concrete 27:42-3 O '25
British design for 180-ft. span concrete bridge. F. Johnstone-Taylor. diag Concrete 25:186-7 N '24
Building a concrete arch around an old iron bridge at Pulaski, New York. E. H. Harder. il diags Eng N 92:320-3 F 21 '24
Calcul des hourdis des tabliers d'ouvrages d'art en béton armé. F. Chaudy. diags Génie Civil 86:531-3 My 30 '25
California begins construction of Douglas memorial bridge. H. D. Miller. il Eng N 93:506-7 S 25 '24
California road bridge concrete all tested in field. H. D. Miller. Eng N 95:182 Jl 30 '25
Cantilever bridge of concrete. il Concrete 26: 28 Ja '25
Cast iron bridge reconstructed in ferro-concrete. F. Johnstone-Taylor. diag Concrete 26:168 My '25
Coastal highway crossing of the Savannah river delta. S. B. Slack. il diags plan Eng N 95:590-3 O 8 '25
Concrete arch bridge of unusual form and details. W. H. Rabe. diags Eng N 95: 750-1 N 5 '25
Concrete bridge with longest arch completed in France. il diags Eng N 92:476-9 Mr 20 '24; Discussion. A. Escher. 92:737 Ap 24 '24
Concrete bridges increasing in Britain. Concrete 26:27 Ja '25
Concrete highway bridge at Freeport, Ont. Can Eng 49:246 Ag 25 '25

BRIDGES, Concrete—*Continued*
Concrete lift span of the Alamitos Bay bridge on the Coast Boulevard, Los Angeles county, Calif. il Pub Works 56:91-2 Mr '25
Concrete mixtures under field conditions. T. P. Watson. il Am Concrete Inst Pro 21:31-43 '25; Same cond. Ry R 76:845-50 My 9 '25; Same cond. Eng & Contr (G C) 64:419-25 Ag 19 '25; Discussion. Am Concrete Inst Pro 21:44-9 '25
Concrete pile trestle highway bridges in Texas. G. G. Wickline. Eng & Contr (R & S) 61:1224-6 Je 4 '24
Construction features of concrete bridge at Binghamton, N.Y. il Eng N 95:264-5 Ag 13 '25
Construction methods and plant for Conneaut viaduct. il diag Eng N 92:1046-9 Je 19 '24
Construction of Ashley River bridge. J. L. Parker. Manuf Rec 85:90 Ap 24 '24
Construction of Haws bridge. il Can Eng 47: 342 S 16 '24
Construction of Lorne bridge, Brantford, Ont. F. P. Adams. il diags plan Can Eng 47: 493-7 N 11 '24
Construction of the Neponset bridge. J. S. Crandall. il diags Boston Soc C E J 12:232-43 My '25
Continuous-girder bridges of concrete. J. F. Seiler. il diags Eng N 95:722-5 O 29 '25
Continuous three-span concrete railway bridge. il diag Eng N 94:516-17 Mr 26 '25
Contract for large concrete bridge connecting Fort Snelling and Mendota at $7.50 per square foot of deck. Eng & Contr (Bldgs) 62:708 S 24 '24
Les déformations du bèton armé soumis à l'extension. H: Lossier. diags Génie Civil 84:445-7 My 10 '24
Design and construction of the Hill-to-Hill bridge, Bethlehem, Pa. F. W. Skinner. il diag Munic & Co Eng 66:286-92 Je '24
Detroit Belle Isle bridge a reinforced concrete cantilever structure. il diags Concrete 23:213-16 D '23
Development of reinforced concrete bridge design. A. E. Lindau. Ry R 74:613-17 Mr 29 '24
Economical design for arch centres. A. E. Wynn. il diags Engineering 118:257-9, pl 26 Ag 22 '24; Same. Eng & Contr (Bldgs) 62: 1161-6 N 26 '24; Same abr. Can Eng 48:341-3 Mr 24 '25
Expansion joint in viaduct floor carried down into column. il diag plans Eng N 94:285 F 12 '25
Field control of concrete on the Delaware river bridge. A. W. Munsell. il diag Am Concrete Inst Pro 21:50-66; Discussion. 67 '25
France plans to build 672-ft. span reinforced-concrete bridge. diags Eng N 92:860-1 My 15 '24
Gandy viaduct across Tampa Bay, Florida. il Engineering 119:729-30, pl 47 Je 12 '25; Manuf Rec 86:76-7 N 13 '24; Eng & Contr (R & S) 64:7-8 Jl 1 '25
Governor's bridge at Rosedale, Toronto. F. G. Engholm. il diags Can Eng 46:389-92 Ap 1 '24
Highway bridge over Van Duzen river, California. il Pub Works 56:292 Ag '25
Hill to Hill bridge, Bethlehem, Pa. il plans Ry R 75:77-84 Jl 19 '24
How to pour concrete bridges with special reference to construction joints. A. R. Carter. Munic & Co Eng 66:229-31 My '24
Jackson street subway, Camden terminal. il diags plan Ry R 75:279-81 Ag 23 '24
Long concrete bridge completed at Tampa Bay, Florida. E. E. Garrison. il Concrete 27:35-9 Ag '25
Long girder spans for reinforced concrete bridge at Becks Run, Pa. diags Ry R 75: 202-5 Ag 9 '24
Long span arch built over old bridge at Minneapolis. il Concrete 24:207 My '24
Long span concrete arch design in France. C: S. Whitney. diags Eng N 93:463-6 S 18 '24
Long span girder bridge over the Enz. W. Stortx. diags Concrete 27:23 Jl '25
Longest concrete bridge span includes deck suspended from arch ribs; Seine bridge at Saint-Pierre-du-Vauvray. H: J. Harms. il diags Concrete 24:138-40 Ap '24
Longest reinforced concrete bridge of its type in the world; Alexander bridge. il Sci Am 130:177 Mr '24
Measured changes in shape of multi-arch bridge. P. L. Brockway. il diag Eng N 93: 304-6 Ag 21 '24
Montmorency Falls bridge awards. il Can Eng 48:607-8 Je 23 '25
Mountain pass highway bridge built on sharp curve; Pacheco creek, California. H. D. Miller. il diags Eng N 94:278-9 F 12 '25; Same. Concrete 27:9-10 Jl '25
Notable structure built by new methods; the Cleveland, Cincinnati, Chicago & St Louis Ry. constructs bridge of concrete of predetermined strength. il plans Ry R 73:711-19 N 17 '23
Notes on placement of construction joints in concrete bridges. Eng N 93:799-800 N 13 '24
Le nouveau pont en béton armé, sur la Seine, à Saint-Pierre-du-Vauvray (Eure). il diags Génie Civil 83:417-21 N 3 '23
Les nouveaux ponts de Fribourg (Suisse). C: Dantin. il map Génie Civil 84:317-19, pl 4 Ap 5 '24
Old and new methods of constructing concrete bridges. J. B. Hunley. Am Concrete Inst Pro 20:259-95 '24; Same. Eng & Contr (Bldgs) 61:681-90, 871-9 Mr 26, Ap 23 '24
Old steel arch utilized in new reinforced concrete structure. C: F. Bornefeld. il diags Concrete 23:102-6 S '23; Same. Eng & Contr (Bldgs) 61:447-54 F 27 '24
Pipe lines on bridges. P. L. Brockway. il diags Pub Works 55:239-41 Ag '24; Same. Eng & Contr (Bldgs) 64:217-19 Jl 22 '25
Le pont en béton armé sur l'Oise, à Persan-Beaumont (Oise). C. Dantin. il diags Génie Civil 86:549-52, pl 6 Je 6 '25
Le pont Pasteur, en béton armé, sur le Rhône, à Lyon. il diags plans Génie Civil 84:53-7, pl 2 Ja 19 '24
Pont-rails en arc et en béton armé sur la Sambre, près de Charleroi (Belgique). il diags Génie Civil 83:514-17 N 24 '23
Precast concrete units used for English footbridge. il Eng N 91:1063 D 27 '23
Pre-cast ferro-concrete footbridge. W. H. Shortt. il diags Eng & Contr (Ry) 61:1103-5 My 21 '24
Predetermining concrete mixtures on two large bridges. Eng N 94:184 Ja 29 '25
Predetermining concrete strength on park bridges. W. F. Welsch. Eng N 95:630-1 O 15 '25
Proposed East York-Leaside bridge, Toronto. F. Barber. diags map Can Eng 49:473-6, 485 O 20 '25
Reinforced concrete bridge construction involves new features. il diags Concrete 25: 55-8 Ag '24
Reinforced-concrete bridges. A. E. Lindau. il Am Concrete Inst Pro 20:122-34 '24; Same. Concrete 24:199-202 My '24
Reinforced concrete bridges. W: L. Scott and C. W. J. Spicer. 207p C. Lockwood & son, London '25
Reinforced concrete bridges, Manitoba. il diags plans Can Eng 46:435-7 Ap 15 '24
Reinforced concrete overbridge at Wembley Hill station. il diags Engineering 116:602-3 N 9 '23
Le renforcement au moyen de béton du pont métallique de Pulaski (États-Unis). P. Caufourier. il Génie Civil 85:175-7 Ag 23 '24
Rib-arch concrete highway bridge over Rock river, Ill. W. S. Todd. il diag Eng N 94:643-4 Ap 16 '25
St Clair avenue bridge, vale of Avoca. G. Alison and N. G. Stewart. il diag map Can Eng 48:141-4 Ja 20 '25
Scotch concrete arch bridge built as box girder. W. L. Scott. il diags Eng N 95: 536-9 O 1 '25
Six-span concrete arch highway bridge at Danville. H. H. Edwards. il Eng N 92:896-8 My 22 '24

BRIDGES, Concrete—*Continued*
Small concrete cantilever bridge at Sambhar, India. S. A. Bunting. il diag Eng & Contr (Bldgs) 63:616-18 Mr 25 '25
Temporary hinges in concrete arch ribs. J. F. Brett. Eng N 95:766 N 5 '25
Trough-shaped concrete bridge resists flotation. C. A. Bock. il diags map Eng N 95: 416-19 S 10 '25
Two parkway bridges planned by engineer and architect; Scarsdale and Valhalla. A. G. Hayden. il diags plans Eng N 95:16-19 Jl 2 '25
Two reinforced-concrete bridges in France. W. L. Scott. il diags Eng N 91:916-18 D 6 '23
Type of bridge being erected in Ireland. il Eng N 95:184 Jl 30 '25
Types officiels espagnols de ponts en béton armé pour routes et chemins vicinaux. J. E. Ribera. il diags Génie Civil 84:39-41 Ja 12 '24
Unusual spandrel-braced arch bridge built at Portland. O. Laurgaard. il diags Eng N 93:328-30 Ag 28 '24
Le viaduc en béton armé de Plougastel sur l'estuaire de l'Elorn, près de Brest. il diags Génie Civil 84:221-2 Mr 8 '24
Viaduct is built of reinforced concrete and encased steel; Roosevelt Road viaduct built in two parallel sections. il diags Eng N 95: 297-9 Ag 20 '25
Waterproofing a reinforced-concrete highway bridge. il Eng N 95:191 Jl 30 '25
Western Gateway bridge over the Mohawk river at Schenectady, N.Y. il diags Concrete 24:248-50 Je '24; Same. Eng & Contr (Bldgs) 62:176-7 Jl 23 '24
Wide use of concrete in conservancy project, Pueblo, Colorado. E. C. McCain. il diags Concrete 27:18-21 Ag '25
Work on Rigolets bridge is progressing rapidly. W. H. Courtenay. il diags Ry Age 76:777-80 Mr 22 '24

See also Trestles, Concrete

Cost

Detailed estimate of cost of proposed East York-Leaside high-level bridge. Can Eng 49:476+ O 20 '25

Maintenance and repair

Closing cracks in a concrete bridge. il Concrete 26:215-16 Je '25
Concrete bridge, damaged by flood, raised and foundation restored. L. K. White. il Eng N 92:162-3 Ja 24 '24
Locomotive smoke destroys concrete. Pub Works 56:99 Mr '25
Old viaduct in France renovated by the cement gun. M. Julien. il Concrete 25:199-200 N '24
Repairing a failed concrete arch at Asheville. J. B. Hutchings, jr. il Eng N 95: 430-1 S 10 '25
Saving a rotting concrete bridge; cement injected under steam pressure. H. P. Brown. il Sci Am 131:178 S '24

Protection

Waterproofing a highway bridge; methods and costs of air brush work. il Eng & Contr (R & S) 63:1193-6 Je 3 '25

Testing

Bronx parkway bridges tested by heavy loads. A. G. Hayden. il diags Eng N 91:934-6 D 6 '23
Stress distribution tests of concrete continuous girder bridge. Eng N 92:1065 Je 19 '24

BRIDGES, Electric railroad
Continuous three-span concrete railway bridge at Cincinnati. il diag Eng N 94:516-17 Mr 26 '25
Wooden trestles eliminated on Lake Shore electric. A. V. Brown. il Elec Ry J 66:93-4 Jl 18 '25

BRIDGES, Foot
Copper covered ferry bridge. il Sheet Metal Worker 16:541+ Ag 28 '25
Double-deck footbridge connects Chicago office buildings. il Eng N 94:436 Mr 12 '25
Ladder bridge for Mount Everest expedition. diags Engineering 118:304+ Ag 29 '24
Suspension foot bridge made of woven wire fence. il Eng & Contr (R & S) 62:6 Jl 2 '24

BRIDGES, Iron and steel
American metal bridges fifty years ago. C. Gayler. il Eng N 95:385-6 S 3 '25
B. & O. replaces bridges of historic interest. P. G: Lang, jr. il diags Ry Age 77:145-8 Jl 26 '24
Buffalo-Fort Erie bridge. diag plan Can Eng 48:479-80 My 12 '25
Castleton bridge is monumental structure. H. T. Welty. il diags Ry R 77:583-8 O 17 '25
Erecting a bridge in Palestine by longitudinal rolling. P. W. Etkes. il diag Eng N 93:16-17 Jl 3 '24
Erecting a new road bridge in Ceylon. il diag Engineer 140:56-7, 64 Jl 17 '25; Same. Eng & Contr (Bldgs) 64:485-6 Ag 26 '25
Erecting the highest state highway bridge in Colorado over the Lake Fork of the Garrison river at Sapinero. il Eng & Contr (R & S) 61:1209-11 Je 4 '24
Fiftieth anniversary of the Eads bridge. C: E. Smith. il diags Ry R 75:647-54 N 1 '24; Same cond. Ry Age 77:783-6 N 1 '24; Same cond. Eng & Contr (Bldgs) 63:191-8 Ja 28 '25
Long spans of Hudson river bridge erected by progressive cantilever method. H. T. Welty. il diags Eng N 94:561-7 Ap 2 '25
New M.C.R. bridge over Niagara river. il Can Eng 48:101-3 Ja 6 '25
Planning and construction of New York Central lines' new Hudson river bridge. H. T. Welty. il diags plans Eng N 94:466-74 Mr 19 '25; Abstract. Génie Civil 87:168-70 Ag 22 '25
Rapid rebuilding of steel viaduct in a busy Chicago street. Eng N 92:621 Ap 10 '24
Reconstruction of the C. & N.W. Ry. bridge over the Missouri river near Blair, Neb. O. F. Dalstrom. il diags map W Soc E J 30:49-69 F '25; Same. Ry R 76:190-7 Ja 24 '25; Abstract. Ry Age 77:931-4 N 22 '24
Reinforcing a cast-iron bridge in France. diags Eng N 94:603 Ap 9 '25
Remarkably heavy plate girders in skew railroad bridge. il diags Eng N 93:710-11 O 30 '24
Replacing railway truss span with two girder spans; the Bluff Creek bridge. il diags Eng N 93:870-1 N 27 '24
Restoring a steel bridge after landslide movement. E. K. Triol. il Eng N 94:112-13 Ja 15 '25
Skew bridge for fly-over junction at Chicago; I.C.R.R. il diags Eng N 93:748-50 N 6 '24
Spadina avenue bridge, Toronto. diag Can Eng 49:442 O 6 '25
Special creeper traveler used in erecting bridge towers. C: Carswell. il Eng N 92: 165-6 Ja 24 '24
Steel bridge weights. W. H. Thorpe. diags Engineering 120:534-8, pl 32 O 30 '25
Steel viaduct built under traffic replaces old timber spans. il Eng N 93:63 Jl 10 '24
Story of steel. il Sci Am 131:324-5 N '24
Structural engineers' handbook. M. S. Ketchum. 3d ed., enl. 1065p McGraw-Hill '24
Theorie und berechnung der eisernen brücken. F: Bleich. 581p J. Springer, Berlin '24
Through-truss spans converted to deck girder viaduct. il diags Eng N 92:150-2 Ja 24 '24
Viaduct is built of reinforced concrete and encased steel; Roosevelt Road viaduct built in two parallel sections. il diags Eng N 95: 297-9 Ag 20 '25
Widening the Missouri river highway bridge at Omaha. il diags Eng N 94:1006-10 Je 18 '25
Wrecked bridge span raised bodily from bay bottom. il Eng N 93:307-8 Ag 21 '24; Eng & Contr (Bldgs) 62:669-70 S 24 '24

Maintenance and repair

Emergency repairs to damaged highway bridge. R. H. Helick. il diag Eng N 95: 624-5 O 15 '25

BRIDGES, Iron and steel—Maintenance and repair—*Continued*
Repair of La Voulte cast-iron railway viaduct. il diags Engineering 119:159-61, pl 8-10 F 6 '25
Strengthening cast iron bridge with concrete. diags Concrete 26:207 Je '25; Same. Eng & Contr (Bldgs) 64:187-8 Jl 22 '25

Protection

L'entretien des ponts métalliques; franchissant des voies ferrées à grande fréquentation. H. A. de Conty. diags Génie Civil 86: 207-11 F 28 '25
Gunite protection for steel structures. P: Gillespie and P. J. Culliton. il Can Eng 47: 451-4, 473-6 O 28-N 4 '24; Conclusions. Concrete 25:231 D '24
Règles scientifiques à suivre pour consolider par bétonnage les constructions métalliques. C: Rabut. Génie Civil 84:577-8 Je 14 '24

Specifications

A. R. E. A. reports on steel bridge specifications. Ry Age 76:235-6 Ja 19 '24
British standard specification for girder bridges. Engineer 140:4-6 Jl 3 '25; Same. Can Eng 49:331-4 S 22 '25
Final report on specifications for design and construction of steel highway bridge superstructure. Am Soc C E Pro 50:265-90 Mr '24
Standard specifications for steel highway bridges. U S Agric Bul 1259:1-48 '24
Standard specifications for structural steel for bridges. Am Soc C E Pro 50:1240-5 O '24
Tentative specifications for steel highway bridge superstructure; discussion. Am Soc C E Pro 49:1607, 2072-81; 50:329-42 S, D '23, Mr '24

Testing

Secondary stresses in steel riveted bridges. O. H. Ammann. diags Eng N 93:666-8 O 23 '24

BRIDGES, Lift
Concrete lift span of the Alamitos Bay bridge on the Coast Boulevard, Los Angeles county, Calif. il Pub Works 56:91-2 Mr '25
Continuous-traffic lift bridge. diag Sci Am 130: 101 F '24
Vertical lift bridge. J. A. L. Waddell. il plans W Soc E J 29:209-16 My '24

See also Bridges, Bascule

BRIDGES, Movable
Symposium on movable bridges. W Soc E J 29:[current news] 29-30 F '24

See also Bridges, Bascule; Bridges, Lift

BRIDGES, Pontoon. See Pontoon bridges

BRIDGES, Railroad
B. & O. replaces bridges of historic interest. P. G: Lang, jr. il diags Ry Age 77:145-8 Jl 26 '24
Bridge alterations at Clifton Forge, Chesapeake & Ohio Ry. diags Eng N 93:72-3 Jl 10 '24
Castleton bridge is monumental structure. H. T. Welty. il diags Ry R 77:583-8 O 17 '25
Castleton cut-off of the New York Central opened to traffic. Ry R 75:890-2 N 29 '24; Eng N 93:885 N 27 '24; Ry Age 77:993-4 N 29 '24; Sci Am 132:23 Ja '25
Castleton cut-off to open Nov. 20th; New York Central's Hudson river bridge memorial to late president A. H. Smith. il diag Ry R 75:797-9 N 15 '24
Detour trestle designed for use over again. P. G. Lang, jr. il Eng & Contr (Ry) 62: 659-61 S 17 '24
Erecting seven simple spans without falsework. il diag plan Ry Age 77:630-2 O 11 '24
Fiftieth anniversary of the Eads bridge. C: E. Smith. il diags Ry R 75:647-54 N 1 '24; Same cond. Ry Age 77:783-6 N 1 '24; Same cond. Eng & Contr (Bldgs) 63:191-8 Ja 28 '25
Florida East Coast railway completes bridge. il Ry R 77:269-72 Ag 22 '25
Greatest railroad development of the century; the $25,000,000 A. H. Smith memorial bridge and Castleton cut-off. W. H. Main. il map Forbes 15:290-2 D 1 '24
Guillemard railway bridge over the Kelantan river. il Engineer 139:594-5 My 29 '25
Important addition to the nation's freight facilities; Castleton cut-off of the New York Central. il map Eng & Contr (Ry) 62:1303-5 D 17 '24
Improvements on the Pennsylvania R.R. Ry R 75:139 Jl 26 '24
Lackawanna will construct lift bridge over Buffalo river. diag map Ry R 76:813-15 My 2 '25
Long girder spans for reinforced concrete bridge. diags Ry R 75:202-5 Ag 9 '24
Long spans of Hudson river bridge erected by progressive cantilever method. H. T. Welty. il diags Eng N 94:561-7 Ap 2 '25
L. & N. to build another bridge on Gulf Coast over Chef Menteur pass. Ry Age 77: 59-60 Jl 12 '24
Michigan Central Niagara bridge abutments completed. il Eng N 92:398-9 Mr 6 '24
Michigan Central R.R. completes Niagara arch. il diags plan Ry R 76:448-58 Mr 7 '25
Missouri river bridge rebuilt for heavier loading. Eng N 94:144 Ja 22 '25
Moving an English railway plate girder on special track and cars. il Eng & Contr (Ry) 61:837-9 Ap 16 '24
New bridge over the Niagara. il Engineer 139:490, 492 My 1 '25
New data on railway bridge and building work. Eng N 93:825-6 N 20 '24
New M.C.R. bridge over Niagara river. il Can Eng 48:101-3 Ja 6 '25
New viaduct at Annaghkilly—G. N. railway (Ireland). il Engineer 139:139 Ja 30 '25
New York Central R. R. completes Castleton cut-off. il diag maps Ry R 75:1015-24 D 27 '24
New York Central R.R. erects remarkably heavy bridge on new connecting line. H. T. Welty. il plans Ry R 75:988-90 D 20 '24
Notable structure built by new methods; the Cleveland, Cincinnati, Chicago & St Louis Ry. constructs bridge of concrete of predetermined strength. il plans Ry R 73:711-19 N 17 '23
Old and new methods of constructing concrete bridges. J. B. Hunley. Am Concrete Inst Pro 20:259-95 '24; Same. Eng & Contr (Bldgs) 61:681-90, 871-9 Mr 26, Ap 23 '24
Planning and construction of New York Central lines' new Hudson river bridge. H. T. Welty. il diags plans Eng N 94:466-74 Mr 19 '25; Abstract. Génie Civil 87:168-70 Ag 22 '25
Pont-rails en arc et en béton armé sur la Sambre, près de Charleroi (Belgique). il diags Génie Civil 83:514-17 N 24 '23
Railway trestle practice in Queensland. il Eng N 84:1065 Je 25 '25
Rapid bridge renewal on N.Y.C.R.R. Eng & Contr (G C) 63:1342-5 Je 17 '25
Reconstruction of the C. & N.W. Ry. bridge over the Missouri river near Blair, Neb. O. F. Dalstrom. il diags map W Soc E J 30:49-69 F '25; Same. Ry R 76:190-7 Ja 24 '25; Abstract. Ry Age 77:931-4 N 22 '24
Reconstruction of White river bridge, De Valls Bluff, Ark. for C.R.I. & P. Ry. A. S. Armstrong. il diag W Soc E J 30:352-9 Ag '25; Same abr. Ry Age 78:875-8 Ap 4 '25
Repair of La Voulte cast-iron railway viaduct. il diags Engineering 119:159-61, pl 8-10 F 6 '25
Report of A.R.E.A. committee on wooden bridges and trestles. Ry R 76:566 Mr 21 '25; Eng N 94:485-6 Mr 19 '25
Skew bridge for fly-over junction at Chicago: I.C.R.R. il diags Eng N 93:748-50 N 6 '24
Stress problems in railway bridges. Can Eng 46:130 Ja 8 '24
Useful strength of new, old and treated timber; appendix to report of A.R.E.A. committee. Ry R 76:611-13 Mr 28 '25

BRIDGES, Railroad—*Continued*
Waterproofing of railroad bridges. G. A. Haggander. diags W Soc E J 30:260-74 Je '25; Same cond. Ry R 76:156-7, 161-4 Ja 17 '25; Abstract. Ry Age 78:239-40 Ja 17 '25
Where bridges are built in the dead of winter. il Sci Am 129:403 D '23
Wide use of concrete in conservancy project, Pueblo, Colorado. E. C. McCain. il diags Concrete 27:18-21 Ag '25
Work on Rigolets bridge is progressing rapidly. W. H. Courtenay. il diags Ry Age 76:777-80 Mr 22 '24
See also Railroads—Bridge foremen; Railroads—Track elevation

Cost
Economics of bridge filling. J. C. Wrenshall and others. Eng & Contr (Ry) 61:635-6 Mr 19 '24

BRIDGES, Steel. See Bridges, Iron and steel

BRIDGES, Suspension
Account of an examination of the Menai suspension bridge. H: T. Tudsbery and A. R. Gibbs. Engineer 136:78 Jl 20 '23; Same. Eng & Contr (Bldgs) 60:1113-15 N 28 '23; Same. Engineering 117:23-4 Ja 4 '24
Action du vent sur un tablier de pont suspendu en tenant compte de l'action de rappel des câbles porteurs. E. Pigeaud. Génie Civil 87:82-5 Jl 25 '25
Bear Mountain suspension bridge over Hudson river. H. C. Baird. il diags Eng N 93: 914-18 D 4 '24
Billet to bridge; the Philadelphia-Camden bridge approaches completion. F. J. Crolius. il Blast F & Steel Pl 13:310-13 Ag '25
Construction progress on Bear Mountain bridge. il Eng N 93:672-3 O 23 '24
Delaware river bridge. J. B. Walker. il diag Sci Am 133:102-3 Ag '25
Delaware river bridge between Philadelphia and Camden. R. Modjeski. il diags plans W Soc E J 28:229-48 Je '23; Same abr. Can Eng 46:203-10 F 5 '24
Delaware river bridge world's largest suspension bridge. W. Voigtlander. il diags Stevens Ind 42:110-12 O 15 '25
Design of the Florianopolis suspension bridge. D. B. Steinman. il diags Eng N 93:778-82 N 13 '24; Discussion. 93:883 N 27 '24
Étude sur les câbles et spécialement sur les câbles de ponts suspendus. G. Pigeaud. Génie Civil 84:345-51, 374-8, 399-402, 421-3 Ap 12-My 3 '24
Fine wire to support great bridge being erected across the Delaware river to link Philadelphia and Camden, N.J. Iron Tr R 75:537 Ag 28 '24; Eng & Contr (Bldgs) 62: 460 Ag 27 '24
Machine for compacting bridge cables. C: Carswell. il Eng N 93:598-9 O 9 '24
Making cables for Delaware river bridge. W. Voigtlander. il Eng N 93:850-1 N 20 '24
Mid-Hudson bridge to be 1500-ft. suspension span. il diag Eng N 92:452 Mr 13 '24
New suspension bridge—South America's longest span. il Eng & Contr (Bldgs) 62: 438-40 Ag 27 '24
Pont cantilever suspendu rigide, sur le Trieux, à Lézardrieux (Côtes-du-Nord). G. L. Le Coco. il diags Génie Civil 87:1-8, pl 1 Jl 4 '25
Le pont suspendu de 497 mètres de portée de Bear Mountain, sur l'Hudson (New York, E.-U.). il diags Génie Civil 86:277-81 Mr 21 '25
Projet de pont suspendu de 1 036 mètres de portée, sur l'Hudson, à New-York. diags Génie Civil 86:440-1 My 2 '25
Rebuilding the first Budapest suspension bridge. J. Beke. il diags plan Eng N 92: 1096-9 Je 26 '24
Research and experimental tests in connection with the design of the bridge over the Delaware river between Philadelphia and Camden. C. E. Chase. il diags J Fr Inst 200:417-36 O '25
Rigid suspension bridge design with wire cables. D. B. Steinman. il diags Eng & Contr (Bldgs) 63:1377-86 Je 24 '25
Something new in bridge design; spanning the famous entrance to San Francisco harbor. il diag Sci Am 131:258+ O '24
Spanning the Hudson river at Bear Mountain. V. H. Vandiver and A. S. Taylor. il Good Roads 66:73-5 Mr '24
Special creeper traveler used in erecting bridge towers. C: Carswell. il Eng N 92:165-6 Ja 24 '24
Suspension foot bridge made of woven wire fence at Agness, Ore. il Eng & Contr (R & S) 62:6 Jl 2 '24
Three new Allegheny river bridges to be of unusual type. diags map Eng N 93:995-7 D 18 '24
Towers, cables and stiffening trusses of the bridge over the Delaware river between Philadelphia and Camden. L. S. Moisseiff. diags J Fr Inst 200:436-66 O '25
Towers of first suspension bridge over Hudson river completed. il Eng N 92:568-9 Ap 3 '24

Anchorages
Anchorages of the bridge over the Delaware river between Philadelphia and Camden. A. Dana and M. B. Case. il diags plans J Fr Inst 198:291-331 S '24
Unusual anchorage detail for Bear Mountain Hudson river suspension bridge. diags Eng & Contr (Bldgs) 61:661 Mr 26 '24

BRIDGES, Transfer. See Transfer bridges

BRIDGES, Wooden
Creosoted timber highway bridge over Mullica river. il diags Eng & Contr (R & S) 64:1001-3 N 4 '25
Creosoted timber in southern highway improvements. P. R. Hicks. il Manuf Rec 85: 79-80 Ja 10 '24
Timber arch bridges in Australia. il Eng N 95:637 O 15 '25
Treated timber bridges in Wyoming. J. F. Seiler. Eng & Contr (R & S) 64:312 Ag 5 '25

BRIGANTINE Beach, New Jersey
Real estate developments involve much construction work. Eng & Contr (G C) 64: 881-2 O 21 '25

BRIGHTNESS
Effect of brightness on the precision of visually controlled operations. P. W. Cobb and F. K. Moss. diag J Fr Inst 199:507-12 Ap '25; Abstract. Am Inst E E J 44:425 Ap '25
See also Glare

BRILLIANT Congo R. See Vital red

BRINDLEY, James, 1716-1772
Famous machinists of history. H. H. Manchester. por Am Mach 60:850 Je 5 '24

BRINELL hardness test
Beobachtungen bei der kugeldruckprobe nach Brinell. M. Moser. il Stahl & Eisen 45:343-4, pl 9 Mr 5 '25
Brinell hardness numbers. Foundry 53:314a, 362a Ap 15-My 1 '25
Comparison of methods for testing hardness. H. E. Degler. Am Mach 63:381-4 S 3 '25
Experiments on the Brinell-tensile relationship. A. L. Norbury and T. Samuel. Iron & Steel Inst J 109:479-89; Discussion. 490-1 no 1 '24
Die härteprüfung von gehärteten stählen. R. Mailänder. Stahl & Eisen 45:1769-73 O 22 '25
Improvements in the Brinell test on hardened steel, including a new method of producing hard steel balls. A. Hultgren. diags Iron & Steel Inst J 110:183-212, pl 10; Discussion. 213-18 no 2 '24
Inspects stock by Brinell test; hardened cone used instead of ball. il Iron Tr R 75:666-7 S 11 '24
Tentative methods of Brinell hardness testing of metallic materials. Am Soc T M Pro 24 pt 1:1099-1105 '24

BRINES. See Salts

BRIQUETS (fuel)
Die nebenerzeugnisse der tieftemperaturbehandlung von braunkohlen. C. Bömcke. Zeit Ver Deutsch Ing 69:567-72 Ap 25 '25

BRIQUETTING
Briquetting of brass turnings. F. L. Wolf. Metal Ind 21:188 My '23; Same. Brass W 19:268 Ag '23; Same. Foundry 51:913 N 15 '23
Briquetting of zinc ores. B. M. O'Harra. il diags Mo U Sch Mines & Met tech ser 7: 1-67 Ag '24
Compacting machine for sand-cement briquettes for testing. il diags Engineering 119:273-5 F 27 '25
Melts borings and turnings. J. A. Gardner. il diag Foundry 52:153-6 F 15 '24; Same. Iron Tr R 74:727-30 Mr 13 '24
New method of preparing briquetted mineral grains for microscopic study. R. E. Head. Eng & Min J 119:889-90 My 30 '25
Untersuchungen von gattierungen mit gussbriketts, verrosteten und unverrosteten stahlbriketts. O. Lechner. diag Stahl & Eisen 45:1802-9, pl 12-13 O 29 '25
Using briquetted chips as furnace scrap. il diags Iron Age 114:1537-8 D 11 '24

BRIQUETTING (fuel)
Alberta experiments in making briquets from coal dust hitherto wasted. E. Stansfield. Coal Age 26:544 O 16 '24
Installation de dépoussiérage de fabriques de briquettes; abstract. Ketzner. diags Chimie & Ind 13:572-3 Ap '25
Mastracoal briquetting process. il diags Engineering 119:536-9 My 1 '25
Eine neue presstorffabrik. A. Hausding. diags Zeit Ver Deutsch Ing 69:784-7 Je 6 '25
Plant in Newark makes briquets by Trent process. F. H. Kneeland. il Coal Age 26:715-16 N 20 '24
Production and briquetting of carbonized lignite. E. J. Babcock and W. W. Odell. il diags U S Bur Mines Bul 221:1-79, pl 1-8 '23
Die rheinische braunkohle; neue dampfwirtschaft in brikettfabriken. Grunewald. il diags Zeit Ver Deutsch Ing 69:1005-12 Ag 1 '25
Smokeless fuel. Soc Chem Ind J (Chem & Ind) 43:874 Ag 29 '24
Toledo plant makes Trent amalgam better known. E. W. Davidson. flow sheet il diag Coal Age 27:139-42 Ja 22 '25

BRISBANE, Queensland

Rapid transit
Brisbane system to be rehabilitated. diag plan Elec Ry J 64:312 Ag 30 '24

BRISTOL, England

Water supply
Bristol waterworks; Cheddar supply. A. M. Paterson. map Engineering 119:449-50 Ap 10 '25

BRISTOL trust company, Bristol, Conn.
Bristol trust company remodels its banking home. il Bankers M 111:667-72 O '25

BRITISH association for the advancement of science
Across Canada with the British association. Can Chem & Met 8:244-5 O '24
Meeting, 92d, Toronto, Aug. 6-13. Engineering 118:265-7, 284-7, 320-3, 367-8, 409-11, 448-9, 480, 506-7, 539-41 Ag 22-O 17 '24; Am Mach 61:366c Ag 28 '24; Eng & Min J 118: 314 Ag 23 '24; Elec R (Lond) 95:423-5 S 19 '24; Engineer 138:268-9 S 5 '24
Meeting, 93d, Southampton, Aug. 26-Sept. 2. Engineering 120:235, 265-6, 282-7, 316-20, 345-8, 375-8, 407-9, 437-8, 469-73 Ag 21-O 16 '25; Engineer 140:218-19, 221-2, 235-7, 270-1, 286-7, 324-5 Ag 28-S 25 '25; Elec R (Lond) 97:332-3, 391-3, 431-4, 471-3 Ag 28-S 18 '25; Electrician 95:265-7 S 4 '25

BRITISH chemical and dyestuffs traders' association
Annual meeting, London, May 15. Chem Age (Lond) 10:534-5 My 24 '24

BRITISH COLUMBIA
See also Coal mines and mining—British Columbia; Copper mines and mining—British Columbia; Geology—British Columbia; Gold mines and mining—British Columbia; Mines and mineral resources—British Columbia; Mining industry and finance—British Columbia; Roads—British Columbia

BRITISH commercial gas association
Annual meeting, 13th, Liverpool, Sept. 29-Oct. 1. Gas J (Lond) 168:29-33, 91-100 O 1-8 '24

BRITISH dyestuffs corporation
Annual meeting, 5th, Manchester, April 8. Chem Age (Lond) 10:379-81 Ap 12 '24
British dyestuffs corporation under fire. Color Tr J 15:171-2 D '24

BRITISH electrical and allied manufacturers' association
Annual meeting, London, March 20. Elec R (Lond) 94:510-13 Mr 28 '24
Work of the B.E.A.M.A. during 1924. B: Longbottom. Elec R (Lond) 96:485-7 Mr 27 '25
Work of the B.E.A.M.A. during 1924; report of the Council. Elec R (Lond) 96:550-1 Ap 3 '25

BRITISH electrical development association
Annual general meeting, London, April 17. Elec R (Lond) 96:649 Ap 24 '25
Electricity in service at Wembley. J. W. Beauchamp. il Elec R (Lond) 94:839-42 My 23 '24
Work of the E.D.A. V. W. Dale. Elec R (Lond) 96:438 Mr 13 '25

BRITISH Empire exhibition
Agricultural engineering exhibits at the British Empire exhibition. Engineering 18:382-3 S 12 '24
British Empire displays industrial and engineering resources. il Iron Tr R 74:1109-11 Ap 24 '24
British Empire exhibition. Engineering 117: 81-2 Ja 18 '24; Elec R (Lond) 93:850-1 D 7 '23
British Empire exhibition. il diags Gas J (Lond) 166:311-34, 453-6, 525-9, 591-3, 898-9; 167:249, 323, 448-9, 937-8 Ap 30, My 14-28, Je 25, Jl 9-16, 30, S 24 '24
British Empire exhibition. J. B. C. Kershaw. il Sci Am 131:80-1, 168+, 254+ Ag-O '24; Same (pt 1). Brass W 20:267-9 Ag '24
British Empire exhibition at Wembley. il plan Soc Chem Ind J (Chem & Ind) 43: 415-30, 1023-9 Ap 25, O 17 '24
British Empire exhibition; engineering exhibits. il diags Engineer 137:430-8, 446, 466-73, 498-506, 528-36, 558-65, 588-95, 618-24, 646-52, 676-80, 704-11; 138:2-8, 14, 32-7, 64-8, 94-9, 122-7, 150-5, 176-9, 202-8, 212, 228-33, 254-8, 284-8, 312-16, 340-4, 370-4, 382, 398-402, 426-30, 454-8, 484-91 Ap 25-O 31 '24; Engineering 117:523-54, 595-601, 665-9, 672, 689-92, 694-8, pl 34-54; 118:6-8, 160-4, pl 3-5, 17 Ap 25, My 9, 23-30, Jl 4, Ag 1 '24
British Empire exhibition; notes on the automobile manufacturers' exhibits. il Automobile Eng 14:175-81 Je '24
British Empire exhibition; pumps and pumping machinery. il diags Engineering 118:216-20 Ag 15 '24
British Empire exposition. il Iron Age 114: 193-5 Jl 24 '24
Chemistry and gas at the British Empire exhibition. Engineering 117:646-7, 710-11 My 16, 30 '24
Colliery at the British Empire exhibition. diags Engineering 117:677-80, 726-9, 756-9, 793-5, 798, pl 65-7; 118:49-51, 158-60, 190-3, 224-7, 251-2, 338-42, 411-14, 528-30, pl 21-2 My 23, Je 6-20, Jl 11, Ag 1-22, S 5, 19, O 10 '24; Elec R (Lond) 94:1007-11, 1032-3 Je 20-27 '24
Commonwealth of Australia at the British Empire exhibition. il plan Engineering 117: 723-6, 736 Je 6 '24
Dominion of Canada at the British Empire exhibition. il plan Engineering 118:137-41 Jl 25 '24
Electric lighting at the British Empire exhibition. il diags Elec R (Lond) 94:686-7; 95: 532-4; 96:519 My 2, O 10 '24, Mr 27 '25; Electrician 92:628-9; 94:365 My 23 '24, Mr 27 '25
Electric lighting at the British Empire exhibition. H. T. Harrison. Illum Engr 17:131 Ag '24

BRITISH Empire exhibition—*Continued*
Electric vehicles at Wembley. il Elec R (Lond) 95:433-5, 459-60 S 19-26 '24
Electrical and engineering exhibits at Wembley. Elec R (Lond) 94:410, 478-9, 517-18, 527-8, 595-6, 632, 673, 701-2, 707-14, 753-7, 813-15, 843-7, 886-7, 937-40, 967-70, 1019-20, 1094-51; 95:39-41, 76-8, 103-7, 158-9, 182-5, 228-31, 256-7, 302-3, 337-9, 377, 390-1, 480-1, 555-6, 580-3, 633-5, 672-3 Mr 14-S 12, 26, O 10-31 '24; Electrician 93:152, 205-6 Ag 8, 22 '24
Electrical plant at Wembley; a preliminary survey of the electrical exhibits. il plans Electrician 92:390-6, 424-5 Mr 28-Ap 4 '24
Electricity in service at Wembley. J. W. Beauchamp. il Elec R (Lond) 94:839-42 My 23 '24
An Empire takes account of stock. il Chem & Met Eng 30:776-7 My 19 '24
Engineering and machine tools at the British Empire exhibition. I. W: Chubb. il Am Mach 61:135-9, 177-9 Jl 24-31 '24
L'exposition de l'Empire Britannique à Wembley, près de Londres (avril-octobre 1924). P. Calfas. il plan Génie Civil 84:537-42 Je 7 '24
Fire protection service at the British Empire exhibition. il diags Engineering 118: 153-6, 383-6, 426-8, 530-1 Ag 1, S 12-19, O 10 '24
G.E.C. at Wembley; an electrical exhibition in little. il Electrician 92:596-7 My 16 '24
Gas lighting at the British Empire exhibition. G. L. Jennings. Illum Engr 17:132-3; Discussion. 133 Ag '24
India and Burma at the British Empire exhibition. il Engineering 118:507-9, 536-9 O 10-17 '24
Machinery of the cotton mill at the British Empire exhibition. il Engineering 118:11-13, 89-91, 247-51, pl 6, 9-12, 23-4 Jl 4, 18, Ag 22 '24; Elec R (Lond) 95:220-1 Ag 8 '24; Electrician 93:176-7 Ag 15 '24; Engineer 138:202-8, 212 Ag 22 '24
Metallurgy at the British Empire exhibition. Engineering 117:604-5, 668-9, 730, 788-9; 118:99-100, 335-6, 438-41 My 9, 23, Je 6, 20, Jl 18, S 5, 26 '24
Navy at the British Empire exhibition. diags Engineering 117:675-6, 801-4; 118:185-9, 420-2, 458-60 My 23, Je 20, Ag 8, S 19-26 '24
The new Wembley. Gas J (Lond) 170:451-2 My 13 '25
New Zealand at the British Empire exhibition. il plan Engineering 118:287-90 Ag 29 '24
Nonferrous metals at the Wembley exhibition. H. Turner. il Brass W 20:299-301 S '24
Power plant exhibits at Wembley. J: B. C. Kershaw. il diags Power 60:82-6, 131-4, 168-70 Jl 15-29 '24
Power station of the British Empire exhibition. il diags Engineering 117:330-5, 362-4, 387-91, 424-8, 455-8, 490-1, pl 28 Mr 14-Ap 18 '24; Elec R (Lond) 94:703-6, 883-5 My 2, 30 '24; Electrician 92:386-8 Mr 28 '24; Power Pl Eng 28:606-10, 645-8 Je 1-15 '24; Engineer 137:250-3 Mr 7 '24
Radio at the British Empire exposition; the Marconi company exhibit at Wembley. il Wireless Age 11:61 Jl '24
Railway material at British Empire exhibition. il diags Engineering 117:535-41, 595-601, 665-8, 672, pl 40-2; 118:6-11, 160-4, 279-84, 475-9, pl 3-5, 17, 27, 51 Ap 25, My 9, 23, Jl 4, Ag 1, 29, O 3 '24; Engineer 138:490-1 O 31 '24
Reflections on the British Empire exhibition. Engineering 118:615-16 O 31 '24
Science at the British Empire exhibition. Engineering 117:580-2, 627-31, 692-4, 773-6; 118:128-9, 278-9 My 2, 16, 30, Je 13, Jl 25, Ag 29 '24
Some engineering features of the exhibition of 1925. il Elec R (Lond) 96:924-6 Je 12 '25
South Africa at the British Empire exhibition. il diags plan Engineering 118:172-4, 204-6 Ag 1-8 '24
Telephony and telegraphy at Wembley. il diags Electrician 93:229-30+ Ag 29 '24
Textile features at British Empire exhibition. J. A. Hunter. il Textile World 66:209-11 Jl 12 '24
Waterworks appliances. il diags Engineering 117:783-6, 814-16 Je 20-27 '24
Wembley—and the part it played towards the electric home. W. A. Gillott. Elec R (Lond) 95:804-6 N 28 '24
Workshop laboratory at the British Empire exhibition. Engineering 117:614-15 My 9 '24

Buildings
Architecture at the British Empire exhibition. H. J. Birnstingl. il plan Arch Forum 41:29-32, pl 9 Jl '24
British Empire exhibition buildings. il plan Engineering 117:225-8, 263-6, 291-3, pl 17-24 F 22-Mr 7 '24
Wembley—advertisement for the Empire and engineering. E. J. Mehren. il Eng N 93: 866-9 N 27 '24

BRITISH engineering standards association
Annual general meeting, 6th, London, Oct. 17. Engineer 138:460 O 24 '24

BRITISH Guiana

Industries and resources
Jungle traders along fading frontiers. W: LaVarre. il Ptr Ink M 8:21-2+ Mr '24

See also Diamond mines and mining—British Guiana; Mines and mineral resources—British Guiana

BRITISH industries fair
British industries fair, Birmingham, May 12-16. il Elec R (Lond) 94:856-7, 896-7 My 23-30 '24; Engineering 117:644-5 My 16 '24
British industries fair, Birmingham, 1925. il Elec R (Lond) 96:327-8, 395-6 F 27-Mr 6 '25; Engineer 139:222-3, 238-40 F 20-27 '25; Engineering 119:234-6, 254-6, 257 F 20-27 '25
British industries fair in London. Engineering 117:583-4 My 2 '24

BRITISH Italian banking corporation, limited
Expansion of business during past year; recovery of Italy. Economist 98:640-4 Mr 22 '24
General meeting, 9th, London, March 20. Economist 100:559-61 Mr 21 '25

BRITISH library of information
British library of information. A. Fletcher. Special Lib 16:185-7 Je '25

BRITISH non-ferrous metals research association
Work of the British nonferrous metals research association. Brass W 21:60-1 F '25

BRITISH South Africa (chartered) company
Chartered. Economist 101:300, 336 Ag 22-29 '25

BRITTANY
Breton churches. A. Embury, jr. il Arch Rec 58:65-85, 128-32 Jl-Ag '25

BROACHES
Graphical method for proportioning broach teeth. C. D. Scrom. diags plan Am Mach 60:334 F 28 '24
Interchangeable broaches for keyways. C: G. Pfeffer. diags Mach 31:549-52 Mr '25

BROACHING
Broaching operations in a press. W: Denton. il Am Mach 62:746 My 7 '25
Broaching rectangular slots in the lathe. W. C. Johnson. il diag Mach 31:42 S '24
Broaching wrench slots on friction power press. H. C. Ten Horn. diag Mach 31:620 Ap '25
Threads by broaching. il Iron Age 116:1117 O 22 '25

BROACHING machines
American broach and machine co. vertical broaching machine. il Iron Age 116:13 Jl 2 '25; Am Mach 63:252 Ag 6 '25
Lapointe hydraulic broaching machine, type 4-W. il Am Mach 63:521-2 S 24 '25; Automotive Ind 53:585 O 1 '25; Iron Age 116:964 O 8 '25; Mach 32:156-7 O '25

BROACHING machines—*Continued*
Myers automatic broaching machine. il Mach 30:817-18 Je '24; Am Mach 60:823-4 My 29 '24
Using two broaches in one machine. W: Denton. il Am Mach 62:785 My 14 '25

BROADCASTING, Radio. See Radio broadcasting

BROADCASTING stations, Radio. See Radio broadcasting stations

BROADSIDES (advertisements)
Laying out broadside illustrations for greater effect. M. Droke. Ptr Ink M 9:64+ D '24
Our most successful mailing piece. H. L. Ramsay. Sales Management 8:963+ Je 27 '25
Taking the Barnum out of broadsides. M. Droke. Ptr Ink M 9:56+ S '24

BROCK process. See Stereophotographic surveying

BROKERS
Higher stock market commissions. Bradstreet's 52:702 N 1 '24
Making of a stockbroker. E. Lefèvre. 341p Doran '25
Managing your brokerage account. W: W. Spaid. 64p Putnam '23
Scope of the wires. R: Spillane. maps Comm & Fin 14:702-3 Ap 15 '25
When stock traders turn careless. B. H. Ettelson. map Comm & Fin 14:709+ Ap 15 '25

Accounting
Stock-brokerage audit for surety bond purposes. J. S. Seidman. J Account 37:202-8 Mr '24

BROKERS' offices
Lorenzo E. Anderson building, St Louis, Mo.; views and plan. Am Arch 127:pl 11-12 Ja 14 '25

BROMATES
Use of bromate in volumetric analysis; the preparation and properties of normal and basic mercuric bromate. G. F: Smith. Am Chem Soc J 46:1577-83 Jl '24

BROMIDES
See Methoxybenzyl bromides; Silver bromide

BROMINATION
Bromination of acyl derivatives of phenylhydrazine; preparation of 2:4-dibromophenylhydrazine. J. E. Humphries and R. Evans. Chem Soc J 127:1676-7 Jl '25
Bromination of 4'-amino-1-phenyl-5-methylbenzthiazole and of 1:1-bisbenzthiazole. R. F. Hunter. Chem Soc J 127:1318-20 Je '25
Bromo-derivatives of *m*-hydroxybenzaldehyde. H. H: Hodgson and H. G. Beard. Chem Soc J 127:875-81 Ap '25
Bromo-derivatives of 1-methylglyoxaline, and the constitution of chloroxalmethylin. I. E. Balaban and F. L. Pyman. Chem Soc J 125: 1564-72 Ag '24
Compounds formed by the action of bromine upon benzaldehydephenylhydrazone. F: D. Chattaway and A. J: Walker. Chem Soc J 127:975-84 My '25
Para-cymene studies; the bromination of 2-amino-para-cymene and certain new azo dyes. A. S. Wheeler and H. M. Taylor. Am Chem Soc J 47:178-84 Ja '25
Studies on the directive influence of substituents in the benzene ring; the active agent in aqueous bromination. A. W. Francis. Am Chem Soc J 47:2340-8 S '25
Studies on the directive influence of substituents in the benzene ring; the partial bromination of derivatives of aniline. A. W. Francis. Am Chem Soc J 47:2588-96 O '25
Studies on the directive influence of substituents in the benzene ring; the relative rates of bromination of certain ortho, meta and para isomers. A. W. Francis, A. J. Hill and J: Johnston. Am Chem Soc J 47: 2211-32 Ag '25
Tautomerism of amidines; methylation of glyoxalines by diazomethane—bromination of 4(or 5)-phenylglyoxaline. W: G. Forsyth and F. L. Pyman. Chem Soc J 127:573-81 Mr '25

BROMINE
Action between bromine and malonic acid in aqueous solution. R. W. West. Chem Soc J 125:1277-82 Je '24
Action of bromine on sodium and silver azides. D. A. Spencer. Chem Soc J 127:216-24 Ja '25
Another idle ship goes to work; the steamship Ethyl to extract bromine from the sea. il Marine R 55:197 My '25
Ethyl gasoline corp. seeks bromine in sea. Oil Paint & Drug Rep 107:67 Mr 30 '25
Floating factory to recover bromine from sea water. il Chem & Met Eng 32:465 Ap '25
Interaction of bromine with acetic anhydride. K. J. P. Orton, H. B. Watson and J: E. Bayliss. diag Chem Soc J 123:3081-96 D '23
Note on the action of bromine on *n*-hexane. E. W. Blair, W. Ledbury and T. S. Wheeler. Soc Chem Ind J 43:289-90 S 5 '24
Reaction of bromine with aliphatic acids; catalytic effect of acyl halides. H. B. Watson. Chem Soc J 127:2067-82 S '25
Redetermination of the atomic weight of bromine; the inseparability of the isotopes by fractional crystallisation. P. L. Robinson and H: V. A. Briscoe. diags Chem Soc J 127:138-50 Ja '25
Ship fitted out to extract bromine from sea water for ethyl gas. il Automotive Ind 52: 792-3 Ap 30 '25
Studies of electrovalency; the catalytic activation of molecules and the reaction of ethylene and bromine. R. G: W. Norrish. diags Chem Soc J 123:3006-18 N '23
See also Bromination

BROMINE compounds
Bromine compounds of phenanthrene. H. Henstock. Chem Soc J 123:3097-9; 125:1296-9 D '23, Je '24

BROMOACETANILIDE
Nitration of *p*-bromoacetanilide. R. H. Griffith. Chem Soc J 125:940-1 Ap '24

BROMOCAMPHOR
New halogen derivatives of camphor; action of hydroxylamine on α- and á-chlorocamphor and bromocamphor; action of sodium methoxide and ethoxide on αβ-dibromocamphor—formation of esters of α-bromocampholenic acid. H: Burgess. Chem Soc J 125:2375-81 N '24

BROMOCAMPHOR-sulfonic acid
New halogen derivatives of camphor; β-bromocamphor-α-sulphonic acid. H. Burgess and T. M. Lowry. Chem Soc J 127:271-8 Ja '25

BROMOCRESOL green
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; bromocresol green. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:226-9 Ja '25

BROMODIMETHYLANILINE
Amine oxides derived from 4-bromodimethylaniline and from 3- or 4-nitrodimethylaniline. L. W. Jones and E. B. Hartshorn. Am Chem Soc J 46:1840-55 Ag '24

BROMOETHYLBUTYRYLCARBAMIDE. See Adaline

BROMOHYDROCINNAMIC acid
Studies on the Walden inversion; the influence of the solvent on the sign of the product in the conversion of β-hydroxy-β-phenylpropionic acids into β-bromo-β-phenylpropionic acids. G: Senter and A. M. Ward. Chem Soc J 125:2137-44 O '24

BROMOMALONAMIDE
Quantitative reduction by hydriodic acid of halogenated malonyl derivatives: the influence of substitution in the amide group on the reactivity of the halogen atom in bromomalonamide. R. W. West. Chem Soc J 127:748-53 Mr '25

BROMONAPHTHOLS
Bromo-alpha-naphthols and the orientation of certain classes of disubstituted naphthalene derivatives. R. C. Fuson. Am Chem Soc J 47:516-18 F '25

BROMONITROCOUMARINS
Bromonitrocoumarins and their reaction with alkalis. B. B. Dey and K. K. Row. Chem Soc J 123:3375-84 D '23

BROMONITROMETHANE
Reaction of bromonitromethane with aromatic compounds in the presence of aluminum chloride. M. L. Sherrill. Am Chem Soc J 46:2753-8 D '24

BROMOPHENYLPROPIONIC acid
Studies on the Walden inversion; the influence of the solvent on the sign of the product in the conversion of β-bromo-β-phenylpropionic acids into β-hydroxy-β-phenylpropionamides. G: Senter and A. M. Ward. Chem Soc J 127:1847-51 Ag '25

BROMOPHENYLTRIMETHYLAMMONIUM perhalides
p-bromophenyltrimethylammonium perhalides. T: H. Reade. Chem Soc J 125:148-56 Ja '24

BROMOPHOSPHONIC acid
Mechanism of the decomposition of beta-bromophosphonic acids in alkaline solution. J. B. Conant and E. L. Jackson. Am Chem Soc J 46:1003-18 Ap '24

BROMOXYLENES
Polarity effects in the isomeric ω-bromoxylenes and isomeric iodotoluenes. J: B. Shoesmith and R. H: Slater. Chem Soc J 125:2278-83 N '24

BRONX river parkway
Bronx parkway bridges tested by heavy loads. A. G. Hayden. il diags Eng N 91:934-6 D 6 '23
Employment of surplus war equipment in the construction of the Bronx river parkway. G. D. Clarke. il Sibley J 38:64-6+ Mr '24
Two parkway bridges planned by engineer and architect; Scarsdale and Valhalla. A. G. Hayden. il diags plans Eng N 95:16-19 Jl 2 '25

BRONZE
Brass, bronze, and copper products, 1923. Metal Ind 22:491-2 D '24
Bronze-steel welds. G: F. Comstock. il Iron Age 112:1381-2 N 22 '23
Bronze welding procedure for cast-iron pipe. Eng N 95:566 O 1 '25
Describes bell founding. W. Lambert and G. Hall. il Foundry 52:978-9 D 15 '24
Fine examples of bronze work. il Brass W 20:261-2 Ag '24
First use of metals; copper and bronze. T. A. Rickard. Eng & Min J 117:602-4 Ap 12 '24
Helical phosphor-bronze springs. Mach 30: 262a D '23
Mechanical bronzes. E. G. Jarvis. Brass W 20:81-3 Mr '24
New bronzes; abstract. Mech Eng 47:667-8 Ag '25
Physical properties of high-tin bronze. F. W. Rowe. il Engineering 118:430-2 S 19 '24
Welded cast iron with bronze. S. W. Miller. Am Mach 62:652 Ap 23 '25
Welding locomotive frames with bronze. J. H. Chancey. il Ry Mech Eng 99:235 Ap '25
Welding with Tobin bronze. I. H. Chancey. and W. C. Swift. Am Mach 63:380 S 3 '25
See also Aluminum bronze; Durex; Gun metal; Manganese bronze

Analysis

Rapid determination of phosphorus in bronze. W: E. Baulieu, jr. il Ind & Eng Chem 17: 908 S '25
Rapid determination of phosphorus in phosphor bronzes. L. Lindemann. Ind & Eng Chem 16:916 S '24; Discussion. 16:1282-3 D '24
Standard methods of chemical analysis of bronze bearing metal. Am Soc T M Standards 1923:40-53

BRONZE founding
Casting and melting troubles. W: J. Reardon. diags Metal Ind 23:182-3 My '25
Casting metals. W: J. Reardon. diags Metal Ind 22:7-8 Ja '24
Effect of casting temperature on the physical properties of a sand-cast zinc-bronze. F. W. Rowe. Engineering 117:384 Mr 21 '24
Foundry melts bronze in the cupola. Foundry 53:229-30 Mr 15 '25
Have difficulty making bronze castings. Foundry 53:526-7 Jl 1 '25
High pressure pump casting. W: J. Reardon. diags Metal Ind 22:103 Mr '24
Large bronze castings from the cupola. E. F. Creager. il Am Mach 62:474 Mr 19 '25
Note defects in cast bronze. R. L. Binney and N. I. Terbille. Foundry 52:596-8 Ag 1 '24
20-ton bronze propeller. il Marine R 54:47 F '24
Use of nickel in the brass foundry. W. M. Corse. Brass W 21:317-20 S '25

BRONZE tablets
Casting bronze tablets. J. G. Kasjens. Brass W 20:124 Ap '24

BRONZE tubes. See Tubes, Bronze

BRONZE welded joints. See Pipe joints

BRONZES
Art bronze work. J. F. Arnold. il Metal Ind 22:483-4 D '24
Artistic bronze cast in Italian foundry. C. H. Gale. il Foundry 52:156 F 15 '24
Cast bronze memorial figure. P. Dwyer. il Foundry 52:499-505 Jl 1 '24
Casting bronze statues. Engineer 137:473-4 My 2 '24
Making art bronze castings. W. W. Boone. il Foundry 53:735-6 S 15 '25
Restoration of ancient bronzes and other alloys. C. G. Fink and C: H. Eldridge. 53p Metropolitan museum of art, New York '25; Summary. Metal Ind 23:272-3 Jl '25
Restoring shabby age-worn art bronzes. Brass W 21:237 Jl '25

BRONZING
Bronzing driving boxes. Ry Mech Eng 99: 260 My '25
Bronzing liquids. Brass W 19:375 N '23
Hazard of flammable dust shown in a recent explosion of aluminum powder. D: J. Price and R. M. Baker. il diags plans Chem & Met Eng 29:878-82 N 12 '23

BROOKHAVEN, Mississippi
When boll weevil came to Brookhaven. E. Whitmore. Sales Management 7:1834-6 D '24

BROOKLINE, Massachusetts
Engineering in the small city. Eng N 95:259-60 Ag 13 '25

BROOKLYN, New York

Rapid transit

Brooklyn city income off. Elec Ry J 64:464 S 20 '24
Brooklyn city railroad company 71st annual report for year ended June 30 1925. Comm & Fin Chr 121:1454-5 S 19 '25; Elec Ry J 66:568 O 3 '25
Car riding increased 28 per cent; new Brooklyn cars increase schedule speed. il plan Elec Ry J 65:1003-7 Je 27 '25
Engineers report on Brooklyn Elevated. diags Elec Ry J 63:691-2 My 3 '24; Eng N 92:825 My 8 '24
Merchandising transportation in Brooklyn. J. T. Grady. il Aera 12:730-4 D '23
$3,986,059 net in Brooklyn. Elec Ry J 64:977 D 6 '24

BROOKLYN Edison company, Inc.
Annual report for year ended Dec. 31, 1924. Comm & Fin Chr 120:825 F 14 '25; Elec W 85:386 F 14 '25
Still larger power plant; steam-electric generating station of the Brooklyn Edison company. il Sci Am 131:17 Jl '24

BROOKLYN-MANHATTAN transit corporation
Brooklyn-Manhattan's good year. Bradstreet's 52:766 N 29 '24

BROOKLYN-Richmond tunnel. See New York (city)—Railroads

BROOMS

Advertising

Local broom producer makes his advertising debut. Ptr Ink 130:104 Mr 12 '25

Manufacture

Handling diverse products through many operations. M: W. Potts. il Ind Management 70:75-6 Ag '25

BROTHERHOOD of locomotive engineers

Brotherhood of locomotive engineers cooperative national bank and office building, Cleveland, Ohio. Arch & Bldg 57:77, pl 185-6 S '25

Five years' growth of brotherhood banks. C: Dillon. il Ry R 77:434-5 S 19 '25

BROTHERHOOD of railroad trainmen

Man in railroading. W. G. Lee. il Ry R 76: 644-6 Ap 4 '25

BROWN, Alexander Crum, 1838-1922

Sketch. por Chem Soc J 123:3422-31 D '23

BROWN, Charles Eugene Lancelot, 1863-1924

Appreciation. B. A. Behrend. por Elec W 83: 1198 Je 7 '24

BROWN, Horace Tabberer, 1848-1925

An appreciation. A. R. Ling. Soc Chem Ind J (Chem & Ind) 44:372-4 Ap 10 '25

BROWN, Robert, 1773-1858

Robert Brown and the discovery of the Brownian movement. L. C. Newell. por Ind & Eng Chem 15:1279-81 D '23

BROWN and Sharpe manufacturing company

Handling under difficulties. M: W. Potts. il Ind Management 70:67-72 Ag '25

BROWN

Brown and olive dyestuffs; tables. Soc Dyers & Col J 41:134-5 Ap '25

Browns for cotton printing. J. Steelman. Textile Col 47:235 Ap '25

BROWN prints

Effect of temperature and time of storage on the physical properties of undeveloped brown print paper. T. D. Jarrell and F. P. Veitch. Paper Tr J 80:56-7 My 14 '25; Abstract. W Soc E J 30:[current news]98 Je '25

BROWN rot

Chemical changes of groundwood during decay. M. W. Bray and T. M. Andrews. Ind & Eng Chem 16:137-9 F '24

BROWNIAN movements

Are quanta unidirectional? G. Breit. Phys R 22:313-19 O '23

Brownian movements of the same particles under different gas pressures. S. Landman. J Fr Inst 199:98 Ja '25

Robert Brown and the discovery of the Brownian movement. L. C. Newell. Ind & Eng Chem 15:1279-81 D '23

BRUCINE

Strychnine and brucine. G: R. Clemo, W: H: Perkin, jr. and R. Robinson. Chem Soc J 125:1751-1804 S '24

Strychnine and brucine; the position of the methoxyl groups in brucine. F. Lions, W: H: Perkin, jr. and R. Robinson. Chem Soc J 127:1158-69 My '25

BRUNLER boiler

Internal combustion boiler. O. Brunler. il diags Soc Chem Ind J (Chem & Ind) 44:187-90 F 20 '25; Same cond. Chem Age (Lond) 12: 150-1 F 14 '25; Abstracts. Engineer 139:184 F 13 '25; Gas J (Lond) 169:598 Mr 11 '25; Power 61:379-80 Mr 10 '25; Power Pl Eng 29:332-3 Mr 15 '25; Eng & Contr (W W) 63: 773-4 Ap 10 '25; Mech Eng 47:358-9 My '25; Chem & Met Eng 32:510 My '25; Discussion. Chem Age (Lond) 12:174-5 F 21 '25; Power 61:664, 1000 Ap 28, Je 23 '25

BRUNNER, Arnold W., 1857-1925

Appreciation. H. W. Corbett. por Arch Rec 57:460-2 My '25

Sketch. por Am Arch 127:167 F 25 '25

BRUNNER, Mond and company

Annual meeting, Liverpool, May 21. Chem Age (Lond) 12:528-9 My 30 '25

BRUNSWICK-Balke-Collender company

Two policies that have saved our business three times. B. E. Bensinger. System 48: 419-23+ O '25

BRUSHES

See also Fuller brush company, Hartford, Connecticut

Manufacture

Electric heat to the rescue. S. L. Lang. il Management & Adm 9:566-7 Je '25; Same. Elec W 86:318 Ag 15 '25

Melting pots and ovens in brush factory are heated electrically. il J Elec 54:368 My 15 '25

BRUSHES (electric machinery)

Brush angle and direction of commutator relation. W. C. Kalb. diags Power 60:973-5 D 16 '24; Discussion. 61:387 Mr 10 '25

Brush mounting as a factor of satisfactory operation. P. C. Jones. diags Am Inst E E J 42:1318-21 D '23; Discussion. 43:1206-8 D '24

Brushholder repair work. J: S. Dean. diags Elec J 22:140+, 197+ Mr-Ap '25

Bürstenspannung und stromdichte unter der kohle bei der kommutation. H. Lutz. Elektrotech Zeit 45:183-5 Mr 6 '24

Care and selection of brushholders and brushes. S. C. Hoey and R. W. Owens. Elec J 20:463-4 D '23

Contact resistance of brushes of commutators. Elec R (Lond) 96:286-7 F 20 '25

Cutting down old brushes for new use is true motor maintenance economy. R. L. Grimes. Coal Age 26:627 O 30 '24

Diseases and cures of dynamos and motors; chart showing various difficulties encountered and methods of overcoming them. W: Voss. Metal Ind 23:16-17 Ja '25

Effect of specific resistance and hardness on the choice of carbon brushes. L. J. Kerlin. il Ind Eng 82:255 My '24

General characteristics of brushes. Ind Eng 83:499 O '25

Operation of slip-ring brushes. E. B. Shand. il diags Elec J 20:449-51 D '23; Same. Power Pl Eng 28:186-8 F 1 '24

Preventing converter brushes from being raised. il Elec Ry J 65:858-9 My 30 '25

Proper brush holder spacing essential. Elec Ry J 64:397 S 13 '24

Relation between abrasiveness and hardness of carbon brushes. W. C. Kalb. Power 62: 293-4 Ag 25 '25

Sidewear of brushes in railway motors. F. W. McCloskey. il diags Elec J 22:491-3 O '25

Time-saving method for seating brushes. A. E. Schiffer. il Elec W 83:885 My 3 '24

Testing

Commercial methods of carbon resistance measurement. R. Wilmeth. il diags Elec J 21:309-15 Jl '24

BRUSHES, Industrial

Large uses of steel in small ways; brushes. il Iron Tr R 76:627 Mr 5 '25

What a rotary brush can do. H. S. McCauley. il Factory 33:414+ S '24

See also Air brushes; Paint brushes

BRUSSELS, University of

Competition for new buildings for University of Brussels under gift of Commission for relief in Belgium educational foundation. il Am Arch 124:571-3 D 19 '23

New buildings for the University of Brussels. M. Wilcox. il plan Arch Rec 55:108-12 Ja '24

BRYAN, William Jennings

Will of William Jennings Bryan provides for establishment of academy for boys under control of some unit of government or Evangelical church. Comm & Fin Chr 121: 943-4 Ag 22 '25

BUBBLES
Determination of surface tension from the maximum pressure in bubbles. S: Sugden. diag Chem Soc J 125:27-31 Ja '24

See also Air bubbles

BUCHERER'S experiment
New discussion of Bucherer's experiment. U. Doi. Philos Mag 6th ser 49:434-46, pl 6 F '25; Reply. A. H. Bucherer. 50:551-2 S '25

BUCKET elevators. See Hoisting machinery

BUCKETS
History of automatic closing buckets. il diags Eng N 95:120-2, 160-2 Jl 16-23 '25
Mechanical handling devices; the grab bucket. A. E. Marshall. il Ind & Eng Chem 16:5-9 Ja '24
Wanted—a better clamshell. P: Crowley. Concrete 27:45 N '25

See also Hoisting machinery

BUCKRAM
Sizing of linen fabrics and transparent batiste. A. Marshall. diag Am Dyestuff Rep 12:902-4 D 17 '23

BUDAPEST, Hungary

Bridges
Rebuilding the first Budapest suspension bridge. J. Beke. il diags plan Eng N 92: 1096-9 Je 26 '24

BUDGET
Budgets of western European countries. R. C. Miller. U S Bur For & Dom Com Trade Information Bul 222:1-31 '24

See also Finance; Purchasing, Government

Belgium
Belgian budget for 1925. Econ W n s 29:162-3 Ja 31 '25
Belgium's budget for 1924. Econ W n s 27:19 Ja 5 '24

Brazil
Budget situation in Brazil. Comm & Fin Chr 120:1546 Mr 28 '25

Far East
Budgets of Far Eastern countries. J. A. DeForce. U S Bur For & Dom Com Trade Information Bul 299:1-42 '24

France
French budget. Index p 12-13 O '24
French budget adopted by Chamber of deputies. Comm & Fin Chr 120:1281-2 Mr 14 '25; Excerpt. Econ W n s 29:415 Mr 21 '25
French budget for 1925. K. L. Austin. Annalist 24:389 O 20 '24
French budget for 1925 as viewed in France. Econ W n s 28:629-30 N 1 '24
French budget of 1925 as finally adopted. Econ W n s 30:235 Ag 15 '25
French 1926 budget. Index p 3-4 O '25

Germany
Germany's budget. Index p 12-13 Mr '24

Great Britain
Britain and her budget. H. Withers. Annalist 23:504 Ap 28 '24
British budget presented by Chancellor Churchill—reduction in income tax. Comm & Fin Chr 120:2219 My 2 '25
British budgets, 1924-25 and 1925-26. Nat City Bank p 75-6 My '25
British labor government budget duties imposed during war abolished. Comm & Fin Chr 118:2122-3 My 3 '24
Budget prospects and the coming session. Economist 98:3-4 Ja 5 '24
Economist budget supplement. Economist 98: supl-8 Ap 19 '24; 100:supl-12 Ap 11 '25
London banking opinion about the new British budget and the restoration of the gold standard. Econ W n s 29:773-5 My 30 '25
When labor plays politics. E: A. Bradford. Annalist 23:527-8 My 5 '24

Hungary
Projected Hungarian budget for 1925-1926. Econ W n s 30:307 Ag 29 '25

Ireland
Irish budget. Economist 100:799-800 Ap 25 '25

Italy
Italian budget. Index p 17-18 Ap '25

Japan
Final Japanese budget estimates for 1925-1926. Econ W n s 30:19 Jl 4 '25
Japanese supplementary budget. Comm & Fin Chr 119:144-5 Jl 12 '24
Japan's restoration budget. Comm & Fin Chr 118:144-5 Ja 12 '24

Latin America
Budgets of Latin American countries. G. B. Sherwell. U S Bur For & Dom Com Trade Information Bul 281:1-75 '24

Netherlands
Holland—the budget. Economist 101:579-80 O 10 '25

New York (state)
Proposed budget system for the state of New York. Comm & Fin Chr 120:747-8 F 14 '25

Philippine Islands
Analysis of the 1925 budget of the Philippine Islands. Econ W n s 28:558-9 O 18 '24

Russia
New soviet budget 3,560,000,000 rubles. Comm & Fin Chr 121:1746-7 O 10 '25
New soviet budget without inflation. J: K. Mills. Annalist 24:695 D 22 '24
Russian soviet budget for fiscal year 1925-1926. Comm & Fin Chr 121:659-60 Ag 8 '25; Same. Econ W n s 30:199 Ag 8 '25

United States
Accomplishments of budget system. H. M Lord. Comm & Fin Chr 120:1838-9 Ap 11 '25
All talk of lower taxes is idle if federal outgo keeps pace with federal income. H. M. Lord. Comm & Fin Chr 120:3269 Je 27 '25
Budget and national economy. J: T. Pratt. Am Ind 24:18-19+ D '23
Business in government at work. H. M. Lord. Nation's Business 12:12-13 Je 5 '24
Competency and economy in public expenditures. Ann Am Acad 113:31-56 My '24
Day with the tax-cutter. W: P. Helm, jr. il Nation's Business 13:29-31 Mr '25
Finances and budget estimates of the national government. J. S. McCoy. Econ W n s 29:53-5 Ja 10 '25
Message of President Coolidge to Congress on budget. Comm & Fin Chr 119:2599-2601 D 6 '24
Message of President Coolidge to Congress transmitting budget. Comm & Fin Chr 117: 2610-12 D 15 '23
Nation's business. H. M. Lord. Textile World 67:2529+ Ap 11 '25; Excerpts. Econ W n s 29:666-7 My 9 '25
Nation's business; co-ordination and economy make tax reduction possible. H. M. Lord. Credit M 26:12+ Je '24
New budget. Annalist 24:607 D 8 '24
President Coolidge on the administration of the national finances. Econ W n s 28:53-5 Jl 12 '24
President Coolidge seeks to cut annual budget $300,000,000. Comm & Fin Chr 120:2645 My 23 '25
Semi-annual meeting of business organization of government. Comm & Fin Chr 118:385 Ja 26 '24
Semi-annual meeting of business organization of government—President Coolidge on budget. Comm & Fin Chr 120:535-6 Ja 31 '25
Semi-annual meeting of business organization of government—President Coolidge on budget. Comm & Fin Chr 120:3267-9 Je 27 '25; Same. Econ W n s 30:17-19 Jl 4 '25

BUDGET—United States—*Continued*
Uncle Sam's budget program sets example for business. Ptr Ink 127:141-4 My 29 '24

Virginia

Virginia's budget efficiency. L. Hodges. Am Ind 24:20-3 D '23

Wisconsin

Wisconsin state budget. 367p Wisconsin State board of public affairs, Madison '25

BUDGET, Business
Applying the budget system to railroads. H: Bruere and A. Lazarus. Ind Management 68:35-46 Jl '24; Discussion. 68:161-3 S '24
Bell telephone system budget plans. C. A. Heiss. Management & Adm 10:133-6 S '25
Budget control of materials and supplies for public utilities. W: P. McArdle. Aera 13:439-51 O '24
Budget control system in successful operation. C: E. Wry. Textile World 67:330-2 F 7 '25
Budget control; what it does and how to do it. 30p Ernst & Ernst, New York '25
Budget in business. A. Lazarus. Ann Am Acad 113:56-63 My '24
Budget is the guide of the executive. Gas Age 54:429-30+ S 27 '24
Budget methods of metal product company. Iron Age 114:910-12 O 9 '24
Budget system as an aid to service-station management. J. E. Mills. charts Soc Auto Eng J 17:280-6 S '25
Budget system effective on the Kentucky traction and terminal company. Elec Ry J 63:70-1 Ja 12 '24
Budgetary control. Paper Tr J 78:53-6 My 15 '24
Budgetary control. W: Carswell. Paper Tr J 79:51-4+ Ag 14 '24
Budgetary control. F. L. Conrad. Am Gas Assn Accounting sec v 6:293-7 '24; Same abr. Am Gas J 121:982-4 O 14 '24
Budgetary control as an aid to personnel administration. H. B. Bergen. Am Management R 13:3-6 F '24
Budgetary control for business. J. O. McKinsey. 47p [bibliog. p. 39-47] Boston chamber of commerce, Boston '24
Budgetary control for the cloak and suit industry. T. I. Schneider. 150p Maxwell Keller pub. co., 1140 Bway., New York '24
Budgetary control in a paper mill. E. B. Gray. Paper Tr J 79:36+ N 6 '24
Budgetary control in cost accounting. C: R. Stevenson. Elec Ry J 66:701-2 O 17 '25
Budgetary control in retail store management. U S Bur For & Dom Com Trade Information Bul 266:1-13 '24
Budgeting a business to make it pay. G: E. Boynton. System 45:46-9+ Ja '24
Budgeting for the business that is different. J. H. MacDonald. Am Management R 14: 308-9 O '25
Budgeting for the newspaper. A. Lazarus. J Account 38:174-82 S '24
Budgeting—realistic method of business control. H: Bruere. Forbes 16:663-4+ Ag 15 '25
Budgeting repair and maintenance expenses. W. F. Woodbury. il Ind Eng 82:312-16+ Jl '24
Budgeting your factory may help you at the bank. J: J. Geddes. Factory 34:919+ Je '25
Budgets and business. T: J. Burke. Paper 35: 126 F 12 '25
Cash budget. G: E. McKana. Am Gas Assn Accounting sec v 5:428-35 '23; Same. Am Gas J 119:387-8 O 17 '23
Chance to help your retailers; Division of domestic commerce publishes Budgetary control. Ptr Ink 128:119-20 S 4 '24
Compilation of a budget. T: B. Fordham and E: H. Tingley. Management & Adm 7:57-62, 205-8, 291-4 Ja-Mr '24
Construction budget. H. C. Davidson. Am Gas Assn Accounting sec v 5:406-14 '23; Same. Am Gas J 119:384-6 O 17 '23
Co-ordination of sales, production, and finance. J. O. McKinsey. Univ J of Business 2:399-405 S '24
Cutting costs with budgets. C: R. Landrigan. System 47:621-3+ My '25
Development of industrial budgeting. H. Coonley. Ann Am Acad 119:64-79 My '25
Emphasizes budgeting as first important step in co-operative program. H: Bruère. Ry Age 76:1805-6 Je 28 '24
Essentials of budget making discussed at management week meetings. Iron Age 114: 1149-50 O 30 '24
Fixed capital accounting records in relation to the construction budget. J. T. Wycoff. Am Gas Assn Accounting sec v 6:308-19; Discussion. 319 '24
Forecast sales before budgeting; keynote for conference of American management association. Iron Age 116:1100-2 O 22 '25
Hood Rubber sales budgets. K. W. Stillman. Management & Adm 9:417-20 My '25
Industrial budget methods. J. H. Barber. chart Management & Adm 8:371-6, 479-86, 589-94; 9:15-20, 129-33 O '24-F '25
Is it ever safe to base appropriations on last year's billing? Sales Management 8:665-6 My 2 '25
Materials and supplies budget. G: E. McKana. Am Gas Assn Accounting sec v 5:423-7 '23; Same. Am Gas J 119:423-4 O 18 '23
Necessity for the preparation of budgets. J. T. Hutchins. Am Gas Assn Accounting sec v 6:291-2 '24; Same. Am Gas J 121:980-1 O 14 '24
Operating budget. E: Porter. Am Gas Assn Accounting sec v 5:415-22 '23; Same. Am Gas J 119:420-3 O 18 '23
Our budget is a guide, not a tyrant; experience of the Western clock company. Factory 34:53-5+ Ja '25
Plan for budgeting transportation expenses. J. E. Slater. Ry Age 77:795-8 N 1 '24
Postum tells how it uncovered hidden profits. C. M. Chester, jr. Ptr Ink M 11:19-20+ S '25
Practical results of budgeting. R. H. Allen. Management & Adm 9:527-30; 10:11-14 Je-Jl '25; Same (pt. 1). Paper Tr J 81:61-3+ O 15 '25
Preparation and control of a budget. J. R. Tobey. Paper Tr J 81:65-8+ O 1 '25
Report on practical operation of expense and cash budgets. Am Gas Assn Accounting sec v 6:298-307 '24
Revolt of the executive. B: A. Franklin. Factory 34:32 Ja '25
System for budgeting co-ordinated sales and production. E: H. Tingley. Management & Adm 10:67-70 Ag '25
Tighter control through budgets. Factory 34: 33-4 Ja '25
To budget. Am Management R 14:39-41 F '25
Use of budgets in reducing overhead. R. W. Darnell. Paper Tr J 79:60+ N 20 '24
Visualizing budgetary control. E: H. Tingley. Management & Adm 8:383-6 O '24; Same. without chart. Paper Tr J 79:57-9 N 20 '24
Warner & Swasey prove that a budget system will work and pay. W. L. Carver. Automotive Ind 50:1279-81 Je 12 '24
Why the budget? W. F. Vieh. J Account 40: 173-9 S '25; Same. Paper Tr J 81:57-9 S 17 '25

See also Purchasing

BUDGET, Household
Financing world's greatest business concern. E. A. Hungerford. Forbes 14:490-2 Jl 19 '24
New wealth, new standards of living and changed family budgets. C. Frederick. Ann Am Acad 115:74-82 S '24
Practical home budget worked out from experience. W: Gould. Gas Age 55:705-8 My 16 '25

BUDGET, Municipal
Municipal budgets. J. P. Goddard. J Account 38:430-4 D '24
Municipal budgets and budget making. A. E. Buck. 77p National municipal league, New York '25

BUDGET, State
Governor Smith pleads for budget plan. Bradstreet's 53:113 F 14 '25

BUENOS AIRES, Argentina
Hydro-electric power for Buenos Aires. map Engineer 137:233 F 29 '24

Banks
American trade outpost. il World's Markets 14:14-15+ Ja '24; Same cond. Dun's Int R 43:50-1 Mr '24

Industries and resources
Foreign securities in American markets—city of Buenos Aires. Annalist 23:214+ F 11 '24

Rapid transit
Bus traffic increases in Buenos Aires. Automotive Ind 49:1190 D 13 '23

BUFFALO, New York
How to make Buffalo buy. M. V. Reed. il Sales Management 6:717-18+ Mr '24

Bridges
Buffalo-Fort Erie bridge. diag plan Can Eng 48:479-80 My 12 '25

Railroads
Kensington-Delavan grade crossing elimination. il diags plans Ry R 75:383-9 S 13 '24

Rapid transit
Dynamiters plead guilty. Elec Ry J 63:79-80, 119-20, 153-4, 190 Ja 12-F 2 '24
Eight cents in Buffalo. Elec Ry J 65:383 Mr 7 '25
Four companies want Buffalo bus franchise. Bus Transportation 3:91 F '24
One-man car case in Buffalo. Elec Ry J 65: 35-6, 116 Ja 3, 17 '25
Service-at-cost suggested. Elec Ry J 65:667 Ap 25 '25

Streets
Traffic problems of the large city. G: C. Kelcey. il maps Sci Am 131:236-7+ O '24

Water supply
Buffalo's new filtration plant. G: C. Andrews. il plan Pub Works 55:271-4, 304-8 S-O '24
Plugging a high pressure tunnel; Buffalo filter plant. C. S. Rindsfoos. diag plan Eng N 94: 641-3 Ap 16 '25
Substructure plan and design; Buffalo filter plant. il diags plans Eng N 94:322-4, 358-62 F 19-26 '25

BUFFALO, Rochester & Pittsburgh railroad
Annual report, 39th, 1923. il map Ry Age 76: 561-4, 577-8 Mr 8 '24
Annual report, 40th, for year ending December 31, 1924. Ry Age 78:771-3 Mr 14 '25
Buffalo, Rochester and Pittsburgh consolidated 4½s, 1957. Moody's Inv Serv 17:155 My 7 '25
Delaware & Hudson to lease B. R. & P. map Ry Age 76:1161-3 My 9 '25; Ry R 76:872-3 My 9 '25

BUFFALOES
See Cattalo

BUFFER mixtures
Calculations on the neutralisation of mixtures of acids, and a universal buffer mixture. E. B. R. Prideaux and A. T: Ward. Chem Soc J 125:426-9 F '24

BUFFERS (railroad)
Simple wheel stops are effective. il Elec Ry J 63:306 F 23 '24

BUFFING. See Polishing

BUFFING wheels
Automatic buffing methods. C: O. Herb. il diags Mach 31:761-4, 871-3, 960-3; 32:15-16 Je-S '25
Bias centerless buffs. il Mach 31:493-4 F '25
Keeping buffing wheels in condition. H. C. Crawford. il Am Mach 62:248 F 5 '25
New buff on scientific principles on which remarkable savings are claimed. N. A. Grant. il Brass W 21:65 F '25
See also Polishing machines

Manufacture
Manufacture of buffing wheels. B. H. Divine. il Mach 29:881-5 Jl '23; Excerpt. Brass W 19: 385 N '23

BUHR mills. See Crushing machinery

BUICK motor company
We must improve it, is Bassett's motto. B. C. Forbes. Forbes 15:165-7+ N 1 '24

BUILDERS' arcades. See Sidewalk sheds

BUILDING
Acquiring a home. C. H. Blake, jr. 280p Doubleday '25
Allotment of space for the mechanical equipment of buildings. N. S. Thompson. Heat & Ven 21:41-4 Je '24
American construction council's review of conditions. Eng & Contr (Bldgs) 62:915-17 O 22 '24
Application du machinisme et des méthodes industrielles à la construction des habitations. C.-P. Petitjean. diags Soc Ing Civils Bul 78:181-95, pl 90 Ja '25
Architectural aids; professional and manufacturers' organizations. Am Arch 128:412 N 5 '25
Architectural building construction. W. R. Jaggard and F. E. Drury. v 2, Pt 1 Macmillan '22
Better building being urged by the American construction council. Bldg Age 46:107-8 N '24
Better houses at lower cost. A. C. Lescarboura. il Dun's Int R 43:49-53 Je '24
Building trades handbook. 4th ed. 414p International textbook co., Scranton, Pa. '24
Chain power transmission as a feature of efficient building design. L. Spillan. il Eng & Contr (Bldgs) 62:1387-9 D 24 '24
Cutting building costs by saving labor at the site. M. G. Farrell. il plan Bldg Age 46:146+ N; 134-6 D '24
Cutting costs in building workers' homes. G. L. Carden. il plan Iron Age 113:1084-5 Ap 10 '24
Engineer's ethical problems in structural design. D. C. Coyle. Eng N 94:236-7 F 5 '25
Erecting new 11-story building over old first story. W: A. Happ. il Bldg Age 47:114-15 Mr '25
Illinois tornado effects studied by engineers. il diag map Eng N 94:982-7 Je 11 '25
In the pathway of progress; old buildings destroyed for the new Delaware River bridge reveal many curiosities of early colonial builders. L. C. Murdoch. il Bldg Age 46:116-17 N '24
Little things that matter. E. Gunn. 82p Architectural press, London '23
Modern hotel construction methods. W. J. Thomas. diags plan Arch Forum 39:223-6 N '23
New competition and your building. W. F. Ballinger. Ind Management 67:140-4 Mr '24
Practical building construction. J. P. Allen. 6th ed., rev. 596p Van Nostrand '24
Questioning precedent saved thousands of dollars; Boston Chamber of commerce building. J. A. McKibben. plan System 48:214+ Ag '25
Report on effects of tornado of March 18, 1925. il diags map W Soc E J 30:373-94 S '25; Excerpt. Am Arch 128:373-4 O 20 '25; Discussion. W Soc E J 30:394-6 S '25
Scientific American home-owners' handbook. A. C. Lescarboura. 494p Scientific American pub. co., New York '24
Structural teachings of the Oppau explosion. E. G. Freidrich. il Eng N 92:66-7 Ja 10 '24
Tendencies in building design. Factory 34: 49-52+ Ja '25
Treating construction as a manufacturing problem. Eng & Contr (Bldgs) 63:1175-8 My 27 '25
Utilizing gas-torch welding in building construction. il Eng N 93:432-3 S 11 '24

BUILDING—*Continued*
Weather and construction, charts Eng & Contr (Bldgs) 62:1175-87 N 26 '24

See also Acoustics, Architectural; Arches; Architecture; Balconies; Bathrooms; Brick construction; Bricklaying; Bridges; Building accidents; Building contracts; Building fittings; Building gilds; Building inspection; Building laws and regulations; Building loans; Building materials; Building trades; Carpentry; Ceilings; Cellars; Chimneys; Church building; Columns; Concrete, Reinforced; Concrete construction; Concrete houses; Construction equipment; Cornices; Cribs, Concrete; Dampness in buildings; Doors; Doorways; Earthquakes and building; Engineering; Factories; Fireproof construction; Flashing; Floors; Foundation soils; Foundations; Framing (building); Girders; Grandstands; Grouting; Hangars; Heating; High buildings; Hot water supply; Hotels; Houseboats; Industrial buildings; Ironwork, Architectural; Joints; Loft buildings; Marine structures; Masonry; Mechanical equipment of buildings; Motor trucks in construction work; Moving of structures; Office buildings; Painting, Industrial; Painting, Structural; Panel work; Partitions; Piers; Piers (foundations); Piles and pile driving; Pisé; Plaster and plastering; Plumbing; Public works; Quantity system of estimating; Railroads—Buildings and structures; Retaining walls; Roofs; Sanitary engineering; Scaffolding; Sheet metal work, Architectural; Shingles; Shipbuilding; Shoring and underpinning; Sidewalk sheds; Skylights; Stairways; Standpipes; Steel construction; Steel houses; Strains and stresses; Strength of materials; Tenement houses; Theaters; Towers; Trusses; Ventilation; Walls; Warehouses; Waterproofing; Weatherstripping; Wind pressure; Windows; Winter construction; Wrecking; *also* American construction council

Accounting

Simple accounting for builders. M. G. Farrell. Bldg Age 46:88-9+ My '24

Cost

Aberthaw index of construction cost. Eng & Contr (Bldgs) 61:1197 My 28 '24
Analysis of cost of types of fireproof construction. A. F. Klein. diags W Soc E J 29:296-300 Jl '24; Same. Eng & Contr (Bldgs) 62:904-14 O 22 '24
Building conditions for manufacturing chemists. M. G. Farrell. Chem Age 32:75-7, 335-7 F, Ag '24
Building costs. Moody's Inv Serv 17:343 O 15 '25
Building costs and new methods. Economist 99:1002-4 D 20 '24
Cost of building doubles in last ten years. charts Brick & Clay Rec 64:575 Ap 15 '24; Same cond. Iron Age 113:1159 Ap 17 '24
Cost of four types in nine geographic sections compared with general construction cost. charts Eng N 95:82-3 Jl 9 '25
Data on cost of sheathing with gypsum lumber. il Eng N 95:237 Ag 6 '25
82 years of building costs. Eng & Contr (Bldgs) 60:1158 N 28 '23
English cottage type dwelling with outline specifications, details and cost. il plans Arch Forum 42:41-56 Ja '25
Factors of industrial housing; plans adopted for typical communities and cost data on 88 important projects. R. J. Waldo. il Management & Adm 10:251-4 N '25
Future of building costs. W. C. Clark. Am Arch 128:61-2 Jl 15 '25
Indexes of construction costs. Survey of Cur Business 50:26 O '25
Mr Wilson builds fireproof houses with new F. D. Lambie system. F. F. Wilson. il Concrete 24:58-60 F '24
Plumbing, heating, lighting and painting costs compared. Eng N 94:542 Mr 26 '25
St. Louis building costs and those for all U.S. compared. Eng N 95:163 Jl 23 '25
Volume and cost of building construction, 1914 to 1924. H. B. Byer. Monthly Labor R 21: 173-6 Jl '25
Who is responsible for high building costs? Eng & Contr (Bldgs) 60:1348 D 26 '23

See also Bridges—Cost; Building materials—Prices; Concrete construction—Cost

Estimates

Appraisers' and adjusters' handbook. W: Arthur. 616p U.P.C. book co. '24
Artistic stucco residence; with quantity survey. plans Bldg Age 45:46-9 N '23
Building estimator's reference book. F. R. Walker. 5th ed. 1597p Frank R. Walker co., Chicago '24
Estimating; a guide to systematic methods in taking off quantities and making up estimates of cost in building operations. E: Nichols. Rev. ed. 100p Am. tech. soc., Chicago '24
Estimating building costs and appraising buildings. F. E. Barnes. 810p McGraw-Hill '24
Estimating the labor of hanging doors. I. P. Hicks. Bldg Age 46:179-80 N '24
Estimating the structural steel of buildings. R. Fleming. Eng N 93:387-90 S 4 '24
For the narrow lot; house design with quantity survey. il plans Bldg Age 46:56-9 Jl '24
Larger allowances for fixtures needed in house specifications. Elec J 54:235 Ap 1 '25
Making a real estimate from plans. I. P. Hicks. diags plans Bldg Age 46:138-9+ D '24
Masonry estimating and details. I. P. Hicks. diags Bldg Age 47:164+ F '25
New England colonial home; with quantity survey. il diags plans Bldg Age 46:72-5 Mr '24
Preparing a carpenter's estimate. E: W. LaRue. Bldg Age 45:58 N '23
Quantities; a text-book in tabulated form for the use of architects, surveyors, and builders. B. Fletcher. 9th ed., rev. & enl. 462p B. T. Batsford, London '23
Short cuts in estimating. A. Korte. Bldg Age 47:88 Jl '25
Singer's guide and estimator for general contractors of building. W: S. Singer. 586p Singer-Ammerman co., St Louis, Mo. '24
Small and economical English type cottage; with quantity survey. il plans Bldg Age 46: 72-4 My '24
Small house along classic lines; with quantity survey. il diags plans Bldg Age 46:64-7 Je '24
Time required to prepare bids. Eng & Contr (Bldgs) 63:851 Ap 24 '25
What it takes to build the bungalow. diags Bldg Age 46:63-4 Ja '24
What will the job cost? M. G. Farrell. Bldg Age 45:60-2 D '23; 46:69-70+ Ja '24

See also Concrete construction—Estimates; Painting, Industrial—Estimates; Quantity system of estimating; Steel, Structural—Estimates

Exhibitions

See Building trades—Exhibitions

Finance

Builder who came back; A. H. Libman. M. L. Simmons. il Bldg Age 47:139-41 Je '25
Building and mortgage survey. R. D. Maxwell. Forbes 15:50 O 1 '24
Building cities with mortgage bonds. W: J. Moore. Bldg Age 46:83+ Je '24
Building conditions for manufacturing chemists; how to finance the building. M. G. Farrell. Chem Age 32:116-18 Mr '24
Building materials on the easy-payment plan. Bldg Age 46:84-6 Mr '24
Finance and the architect. E. H. Hewitt. Am Arch 125:227-8 Mr 12 '24
Important facts on construction bonds. Prof Eng 10:16-20 Ag '25
Important principles of architectural economics; preliminary investigation before planning a new building. J. M. Green, jr. Arch Forum 42:325-8; 43:30-2 My, Jl '25

BUILDING—Finance—*Continued*

Raising capital for that new factory building. M. G. Farrell. il Factory 32:36-9+ Ja '24

Real estate finance and the nation's welfare. Comm & Fin Chr 119:2226-9, 2344-7, 2458-62 N 15-29 '24

Second mortgages financed through material dealers. T. F. Laist. Eng & Contr (Bldgs) 61:1198-1200 My 28 '24

Second mortgages for homes. A. E. Cornell. Eng & Contr (Bldgs) 61:1179-82 My 28 '24

What the contractor's banker should know. J. F. Adams. chart Eng & Contr (Bldgs) 60: 1360-2 D 26 '23

See also Building and loan associations; Building loans; Federal farm land banks; Home ownership; Housing finance; Housing projects; Housing projects, Company

Heating aspects

Air leakage around window openings. C. C. Schrader. diag Am Soc Heat & V E J 30: 465-74 Je '24; Abstract. Heat & Ven 21:67-8 Jl '24

Air leakage around windows—how it is figured. Y. Adams. Sanitary & Heat Eng 103: 178-9, 218-20 Mr 20-Ap 3 '25

Air leakage through the openings in buildings. F. C. Houghten and C. C. Schrader. il diags Am Soc Heat & V E J 30:121-34 F '24; Same. Am Arch 125:161-9 F 13 '24; Same. Arch Forum 40:sup69-72 Mr '24; Same. Sanitary & Heat Eng 101:163-6, 206-9 Mr 7, Ap 4 '24; Abstracts. Heat & Ven 21:54-7 F '24; Am Inst Arch J 12:153+ Mr '24

Calculating radiation requirements of residences. diags Heat & Ven 22:66-71 Mr '25

Designing and planning for home heating economies. D. K. Boyd. Am Soc Heat & V E J 31:159-66; Discussion. 170-4 Mr '25

Fallacy of "air change" factors in figuring heating requirements. A. M. Lane. Heat & Ven 21:51-3 Je '24

Figuring heat losses and estimating radiation. diags Dom Eng 113:25-6+ O 24 '25

Further data on infiltration of air through building openings. C. C. Schrader. diags Am Soc Heat & V E J 31:1-4 Ja '25; Abstract. Heat & Ven 22:74-5 F '25

Getting acquainted with B.t.u.'s. diags Sheet Metal Worker 15:162-4+ Mr 28 '24; Same. Sanitary & Heat Eng 101:311-13+ My 16 '24

Group heating of buildings; giant conservatory enclosing half-mile district proposed for economical community heating. S. R. Lewis. diag plan Am Soc Heat & V E J 29:615-22 N '23; Same. Sanitary & Heat Eng 100: 314-7 N 30 '23; Excerpt. Am Arch 125:14 Ja 2 '24

Heat loss through wall constructions. A. Kolflaath. il diags Am Soc Heat & V E J 30:627-43, 661-8 S-O '24

Heat transmission through dwelling house walls; results of tests conducted by the Norwegian government. il diags Am Arch 126:299-306 S 24 '24; Abstract. Sanitary & Heat Eng 102:323-4 O 31 '24

High heating costs of poor building. diags Sheet Metal Worker 15:903-4+ D 19 '24

Home-study course in gravity steam and water heating. diags Heat & Ven 21:50-8 N; 48-53 D '24; 22:52-6+ Ja; 57-62 F; 54-8 Mr '25

House construction that reduces heating costs. J. D. Hoffman. diags Gas Age 53:461-6+ Ap 12 '24; Same cond. Heat & Ven 20: 43-8 S '23; Same cond. Sheet Metal Worker 14:684-6, 712-13 S 28-O 12 '23; Discussion. J. M. Robb. Heat & Ven 20:48-9 S '23

Insulation and heating possibilities in buildings. J. Govan. Eng & Contr (Bldgs) 62: 179-84, 449-57 Jl 23, Ag 27 '24; Excerpts. Heat & Ven 21:47-50 S '24

Insulation of dwellings and its conservation of heat. Am Arch 128:35-6 Jl 1 '25

New rules for figuring effect of wind on heat losses from buildings. A. C. Willard. diags Heat & Ven 21:57-9 Ag '24

Preliminary tests on the infiltration of air into buildings. F. H. Sibley. diag Am Soc Heat & V E J 30:311-16 Ap '24

Reducing heat waste at vital construction points. C: L. Hubbard. diags Bldg Age 47: 114+ N '25

Reducing heat waste through windows and doors. C: L. Hubbard. diags Bldg Age 47:128-9+ My '25

Relation of the builder to the heating system. C: L. Hubbard. Bldg Age 47:156+ Ap '25

Why some heaters don't heat. F. H. Phegley. diags Sheet Metal Worker 16:191-3, 231-2 Ap 24-My 8 '25

See also Insulation (heat)

Lighting aspects

See Daylight; Windows

Repair and reconstruction

Five-hundred-year-old roof; preserving Westminster Hall for posterity. il diag Sci Am 130:32 Ja '24

Methods used in shoring and removing heavily loaded columns; Exchange national bank of Tulsa. K. Johnson. il diags plan Am Arch 125:411-15 Ap 23 '24

Modernizing old buildings by use of stucco. S: Warren. il Am Arch 126:539-43 D 3 '24

Remodeling and overcoating with Portland cement stucco. S: Warren. il Concrete 26:198-200 Je '25

Structural surgery. il diags Am Arch 128:367-72 O 20 '25

Westminster Hall roof and the recently executed repairs. W: Harvey. il diags Am Arch 125:55-60 Ja 16 '24

See also Concrete buildings—Repair and reconstruction; St Paul's cathedral, London

Safety devices and measures

Contractors' associations' activities in accident reduction. R. A. MacMullan. Eng & Contr (Bldgs) 60:1151-2 N 28 '23

Cost of safeguarding workers on a 16-story building. Eng N 92:292 F 14 '24

General construction safety orders. 66p Cal. Industrial accident commission, Sacramento '23

How safety work can aid the construction industry. L. D. Woedtke. Nat Safety N 11: 25-6 Mr '25

Plan for accident prevention and save money. Bldg Age 47:125 F '25

Protecting the public on the construction job. E. C. Harding. il Nat Safety N 12:13-14 O '25

Safety check list for construction work. Nat Safety N 11:43 Mr '25

Safety in building construction. W. E. Welch. il Safety Eng 46:159-63, 217-22, 284-7; 47:26-31, 70-4 O '23-F '24

Safety in construction. E. M. Scofield. Eng & Contr (G C) 64:430-2 Ag 19 '25

Safety in construction—a moral and an economic necessity. W: F. Tubesing. Eng & Contr (Bldgs) 62:1379-80 D 24 '24

Safety measures on San Francisco job. C: W. Geiger. il Eng & Contr (Bldgs) 63:891 Ap 24 '25

Safety work reduces insurance rate. W. F. Creighton. Eng & Contr (G C) 64:914-15 O 21 '25

Sidewalk protection during building construction. il diags Am Arch 125:74-6 Ja 16 '24

Stimulating interest through safety code questionnaires. R. E. Paris. Nat Safety N 11:33-4 Ap '25

Successful safety work on the construction job. R. McKinley. Nat Safety N 12:15 Jl '25

See also Concrete construction—Safety devices and measures

Schedules

How a contractor schedules operations for a large office building. W. J. Lynch. W Soc E J 29:265-72 Je '24

Importance of winter building in the construction industry; erection of the Standard oil building, New York. il chart plan Am Arch 127:31-8 Ja 14 '25

BUILDING—*Continued*

Specifications

American specification institute; outline of tentative specifications. Published in bi-weekly numbers of American architect and the architectural review; Discontinued February, 1925

"Or equal." F. R. Still. Am Arch 127:sup 12+ My 6 '25

The "or equal" phrase—its advantages and its defects. Eng & Contr (Bldgs) 62:665 S 24 '24

Specification stock taking. H. R. Dowswell. Am Arch 127:sup12+ Je 17 '25

Specifications in detail. F. W. Macey. Am Arch 124:440-2 N 7 '23

Standard specifications of the New York building congress. Am Arch 128:sup12+ Ag 12 '25

See also Brick construction—Specifications

Bibliography

List of bulletins of American specification institute and Federal specification board. Am Arch 125:sup12+ Ja 2 '24

Standards

Architects promote building standards in Ohio. Arch Forum 40:44 Ja '24

New materials, processes and standardization. J: M. Gries. Arch & Bldg 56:21-4 Mr '24

New sizes of sash, door and millwork. Arch & Bldg 57:45 My '25

See also Buildings, Standard

Statistics

Analysis of building statistics for the United States. J. B. Hubbard. charts maps R Econ Statis 6:32-62 Ja '24

Building statistics. Published monthly in Bradstreet's

Population growth and the volume of building. W. I. King. Am Statis Assn J 19:9-13 Mr '24

Record building in 1923. Bradstreet's 52:45 Ja 19 '24

Trend of business movements. Published in monthly numbers of Survey of current business

See also Building trades—Statistics

Study and teaching

Courses in building at Los Angeles high school. Eng & Contr (Bldgs) 63:219 Ja 28 '25

Tables, calculations, etc.

Finding volume of wing abutments. C: L. Moore. diags Eng N 92:293-4 F 14 '24

See also Building—Estimates; Quantity system of estimating; Windows—Tables, calculations, etc.

Canada

Building conditions in Canada. Econ W n s 27:803 Je 7 '24

China

Chinese building. G: Cecil. Arch & Bldg 57: 18-19 F '25

Heating situation in China. H. L. Alt. Am Soc Heat & V E J 30:589-96 Ag '24

Japan

America will rebuild Japan. Concrete 23:180-1 N '23

Japan faces gigantic building program. il Am Soc Heat & V E J 29:595-6 O '23

Japan studies rebuilding plans. I. Takano. il Iron Tr R 73:1721-3 D 27 '23

Mississippi

$15,000,000 in building operations now under way reflect prosperity on Mississippi Gulf Coast. W. D. Robinson. il Manuf Rec 86: 79-82 S 18 '24

Southern states

Building activity continues throughout the South, with outlook indicating still greater advance. Manuf Rec 85:71-2 Je 19 '24

Over $270,000,000 in building permits South for six months. Manuf Rec 86:79-80 Jl 24 '24

Southern educational buildings a most active field. C. A. Carroll. Eng & Contr (Bldgs) 61:1188-90 My 28 '24

United States

Building; another view of the extent to which the war shortage has been made up. Index p 10-11 Mr '24

Building industry in 1923 and 1924. Fed Res Bul 10:859-62 N '24

Building outlook for 1924. W. I. King. Arch Rec 55:102-7 Ja '24

Building outlook for 1925. W. I. King. Arch Rec 57:87-92 Ja '25

Building permits in the principal cities of the United States in 1922. U S Bur Labor Statistics Bul 347:1-120 '23

Building permits in the principal cities of the United States in 1923. U S Bur Labor Statistics Bul 368:1-127 '25; Summary. Monthly Labor R 18:1318-35 Je '24

Building permits in principal cities of the United States in 1924. Monthly Labor R 20:1354-69 Je '25

Building permits in principal cities of the United States, January to June, 1924. Monthly Labor R 19:871-97 O '24

Building permits in principal cities of the United States, January to June, 1925. Monthly Labor R 21:822-48 O '25

Building prospects for 1925. T: S. Holden. Arch Rec 56:575-7+ D '24

Building shortage still claimed to exist. Comm & Fin Chr 119:2236 N 15 '24

Building still surging forward to a new high yearly record. Bradstreet's 53:657 O 10 '25

Construction news. Published in weekly numbers of Engineering news-record

Economics as relating to architecture; economic factors which underlie construction activity—prepared for the American architect by the American chamber of economics. Published in American architect

Forecast of 1925 building activity. Arch Forum 42:89-92 F '25; Same, with comments. Sanitary & Heat Eng 103:44-7, 76-9 Ja 23-F 6 '25; Same. Brick & Clay Rec 66:184-8 F 3 '25; Excerpts. Gas Age 55:137-9+ Ja 24 '25; Blast F & Steel Pl 13:87-8 F '25; Sheet Metal Worker 15:1037-9 Ja 30 '25; Eng & Contr (Bldgs) 63:393-8 F 25 '25; Heat & Ven 22:93-4 F '25; Elec W 85:637-8 Mr 21 '25

Housing still 35 per cent. short. charts Brick & Clay Rec 64:646-7 Ap 29 '24

Index numbers of building construction and of population in 130 identical cities, 1914 to 1924. Monthly Labor R 21:621-5 S '25

1924—another $5,000,000,000 building year. Arch Forum 40:7-10 Ja '24: Abstract. Brick & Clay Rec 64:174-5 F 5 '24

Present building shortage and probable 1924 construction. Bldg Age 45:35-7 N '23

Probable 1926 contruction. Bldg Age 47:110+ N '25

Record half year of 1925 in building. Bradstreet's 53:481-2 Jl 25 '25

There is still a building shortage; results of a country wide survey. Bldg Age 47:130-2 O '25; Same. Eng & Contr (Bldgs) 64: 964-7 O 28 '25; Same cond. Brick & Clay Rec 67:562 O 13 '25

See also Building trades—United States

BUILDING, Brick. See Brick construction

BUILDING, Cooperative

See also Apartment houses—Cooperative ownership

BUILDING, Mill construction

How we combined reinforced concrete and mill construction. K. D. Hamilton. il Factory 31:608-10+ N '23; Same cond. Concrete 23:225-7 D '23

Reconstruction of dye-house at a textile mill; combination concrete and mill type construction. il diags Eng N 94:524-6 Mr 26 '25

BUILDING accidents

Construction section accident statistics. Nat Safety N 10:42 Jl '24

BUILDING accidents—*Continued*
Construction section accident statistics; tabulation. Nat Safety N 12:39-41 Jl '25

See also Building failures

BUILDING and loan associations
Building and loan association growth. Comm M 6:11-15 F '25; Same. Econ W n s 29:185-7 F 7 '25
Building and loan associations. Index p 5-6 F '25
Building and loan associations on the Pennsylvania system. C. P. Brady. il Ry Age 75: 1153-4 D 22 '23
Building and loan competition. F. P. Bennett, jr. Am Bankers Assn J 18:222-3+ O '25; Same. Comm & Fin Chr 121:141-4 sec 2 O 17 '25
Building associations as thrift creators and home buyers. Manuf Rec 85:65 Ap 17 '24
Building loan associations and contractors. Bldg Age 46:83 S '24
Building societies. Economist 101:373, 408-9 S 5-12 '25
Elements of the modern building and loan associations. H. F. Clark and F. A. Chase. 540p Macmillan '25; Excerpts. Econ W n s 29:769 My 30 '25
Real estate finance and the nation's welfare. Comm & Fin Chr 119:2345-6 N 22 '24
Savings in building and loan associations. M. H. Schoenfeld. charts Ann Am Acad 121: sup25-37 S '25

Accounting

Accounting for building and loan associations. R. J. Bennett. 45p Bennett accountancy institute, Philadelphia '24
Building and loan association accounting. 54p Yeo & Lukens co., Philadelphia '23
Building and loan associations. R. J. Bennett. J Account 37:81-90 F '24
Building and loan associations. L. U. Crawford. J Account 40:15-22 Jl '25

Advertising

Window displays that caused 100 per cent increase in depositors; Franklin society for home-building and savings. Ptr Ink M 8:90+ Mr '24

BUILDING contracts
Control over public building contracts by public authorities. A. L. H. Street. Bldg Age 47:185-6 Ap '25
Defective performance of building contracts. A. L. H. Street. Bldg Age 46:122+ Ap '24
Joint conference on standard construction contracts approves two standard contract forms. Eng N 93:796-7 N 13 '24
Law as to architecture. C. H. Blake, jr. Am Arch 128:sup12+ Jl 1 '25
Materialman's obligations under a specific contract. A. L. H. Street. Bldg Age 47:138 Ja '25
Payment for extra work. C. B. Jackson. Can Eng 48:195 F 3 '25
Payment for extras on a cost plus job. A. L. H. Street. Bldg Age 46:92-3 S '24
Problems of the construction industry. R. C. Marshall, jr. Boston Soc C E J 12:276-80; Discussion. 290-9 Je '25
Propose uniform building contract. W Soc E J 30:[current news]22-3 F '25
Standard building contracts and arbitration. W. Stinson. Am Arch 127:127-9, 223-4 F 11, Mr 11 '25; Discussion. C. H. Blake, jr. 127: 224 Mr 11 '25
Standard contract form is approved by Joint conference on standard construction contracts. Eng N 94:332 F 19 '25
Validity of clause fixing in advance damages for delay in completing contract. A. L. H. Street. Bldg Age 47:176+ Mr '25
When is a contractor entitled to relief against mistake in bid? A. L. H. Street. Bldg Age 46:98-9 Je '24

See also Contractors; Contracts, Letting of; Heating contracts; Plumbing contracts

BUILDING equipment

Bibliography

Reference list of business literature. See biweekly numbers of American architect, monthly numbers of Architectural forum and Building age

BUILDING equipment industry
Architect makes or breaks sales in the building field. il Sales Management 8:462-4+ Mr 21 '25

BUILDING failures
Unbraced steel building frame collapses in Spokane. il Eng N 92:1066-7 Je 19 '24
Vibration and structural damage. E. Latham. il Engineering 117:163-4 F 8 '24
Wisconsin theater collapse due to faulty work. diags Eng N 92:723-4 Ap 24 '24

See also Brick construction—Failures; Bridge failures; Concrete construction—Failures; Hangars—Failures

BUILDING finance. See Building—Finance; Housing finance

BUILDING fittings
Selecting the hardware for a small house. Bldg Age 47:105 O '25
Use of radium in buildings. W: H. Dey. il Am Arch 126:151-4 Ag 13 '24

See also Ironwork, Architectural; Sheet metal work, Architectural; Woodwork

BUILDING gilds
Building guilds. Am Inst Arch J 11:499 D '23

BUILDING inspection
Cooperation of manufacturers and inspectors. Concrete 26:208 Je '25

See also Elevators—Inspection

BUILDING laws and regulations
Architects and engineers report on safe building. Eng N 92:615 Ap 10 '24
Bias in report on unit stress arouses criticism. Iron Tr R 77:132-3+ Jl 16 '25
Building code committee's recommendations for unit stresses question quality of steel and control of fabrication and erection. il Iron Tr R 77:65-8 Jl 9 '25
Building code limitations on floor areas in buildings. R. G. Kimbell. Am Arch 125:301-8 Mr 26 '24
Building codes and their relation to the concrete products industry. W: F. Lockhardt. Am Concrete Inst Pro 20:221-36 '24; Abstracts. Concrete 24:197 My '24; Eng & Contr (Bldgs) 62:213-14 Jl 23 '24
Building codes can make or break you. M. C. Cohn. Brick & Clay Rec 64:422-4 Mr 18 '24
Building exits code applicable to hospitals, sanitariums, and corrective institutions. Safety Eng 49:263-4+ Je '25
California housing handbook containing the state housing law of California. M. C. Cohn. 113p Marc C. Cohn, 512-514 Foxcroft bldg., San Francisco '23
Concrete in building codes. Concrete 25:230-1 D '24
Height limits for Chicago buildings. Eng N 91:837 N 22 '23
Law as to architecture. C. H. Blake, jr. Am Arch 125:15-16 Ja 2 '24 [continued monthly]
Law or laxity; classification of towns prohibiting wooden shingle roofs. C: E. Worthington. Safety Eng 47:35-9 Ja '24
Minimum live loads allowable for use in design of buildings. (Simplified practice recommendation) 38p U.S. Bur. of stand., Washington '24; Abstracts. Am Arch 128:38 Jl 1 '25; Eng N 95:214 Ag 6 '25
Municipal building inspection and steel fabrication. F. Burton. Eng & Contr (Bldgs) 63: 208-11 Ja 28 '25
1925 official Providence building and zoning ordinances relating to building inspection, elevator and fire protection, and restricting kind and size of buildings in districts. A. W. Harris, comp. 432p A. W. Harris, Providence, R.I. '25
Purpose of zoning ordinances and methods of administration. M. Knowles. Am Soc C E Pro 51:178-93 F '25

BUILDING laws and regulations—*Continued*
Recommended minimum requirements for masonry wall construction. Brick & Clay Rec 67:30-1, 179-80 Jl 7, Ag 4 '25
Reducing the cost of housing by eliminating unnecessary building law requirements. I. H. Woolson. Arch & Bldg 56:31-3 Ap '24; Same. Econ W n s 27:693-4 My 17 '24
Les restrictions à la liberté de batir en bordure des voies publiques. L. Petit. Génie Civil 84:568-71 Je 14 '24
Resumé of the building code situation as to concrete units. Eng & Contr (Bldgs) 63: 423-6 F 25 '25
Skill required in building. A. L. H. Street. Bldg Age 46:116+ Mr '24
Structural safety in building. Eng & Contr (Bldgs) 61:1407-9 Je 25 '24
Who bears the loss caused by freezing of water pipes, etc., on the job? A. L. H. Street. Bldg Age 46:211-12 N '24
Wooden shingle ordinances or wooden shingle fires—which? A. C. Carruthers. Safety Eng 46:288-91 D '23
Working stresses in framework of buildings; tentative proposals of Building code committee of the Department of commerce. Eng N 95:215-16 Ag 6 '25
Zoning for use. E. A. Fisher. Am Soc C E Pro 51:165-71 F '25

See also Building contracts; Building inspection; City planning—Zone system; Heating—Laws and regulations; High buildings; Mechanics' liens; Plumbing laws and regulations

BUILDING lines
Building line zoning. L. V. Sheridan and J. C. Hoffman. Am Soc C E Pro 51:214-17 F '25

BUILDING loans
Long term loans needed in home building. Bldg Age 46:71 Ja '24

See also Building and loan associations

BUILDING loans, Company
Company helps employees buy homes. Elec Ry J 62:1050 D 22 '23

BUILDING lots. See Building sites

BUILDING materials
Building blocks of excelsior molds and concrete core. il diag Eng N 95:449 S 10 '25
Canada's building materials. Can Eng 48:104 Ja 6 '25
Effect of atmospheric impurities on buildings. F. Baines. Gas J (Lond) 168:575-7 N 26 '24
Follies of 1950; satire on substitutes. G. L. Kaufman. Am Inst Arch J 13:343-5 S '25
Johnson's materials of construction, rewritten by M. O. Withey and James Aston. 6th ed. 865p Wiley '25
Materials and their application to engineering design. E. A. Allcut. 519p Lippincott '23
New materials, processes and standardization. J: M. Gries. Arch & Bldg 56:21-4 Mr '24
Structural engineering, fundamental properties of materials. G: F. Swain. 200p McGraw-Hill '24

See also Adobe; Asbestos; Asphalt blocks; Bricks; Building stone; Cement; Cinders; Concrete; Concrete, Reinforced; Concrete blocks; Concrete brick; Concrete slabs; Concrete stone; Concrete tile; Cork; Fire resisting materials; Glass; Gravel; Gunite; Gypsum; Gypsum, Reinforced; Hollow tile; Iron; Laths; Lime; Limestone; Lumber; Metal lath; Metal work, Architectural; Mortar; Pisé; Plaster and plastering; Plywood; Roofing; Shingles; Slate; Steel, Structural; Straw blocks; Strength of materials; Stucco; Terra cotta; Tile; Timber; Wall board; Wood

Advertising
Co-operative work that strikes out along new lines. A. Leslie. Ptr Ink 129:165-6+ D 11 '24
In time of prosperity, Barrett company is after future market. D. MacLean. il Ptr Ink 127:41-2+ My 15 '24
Mail campaign that cost $2,490 and produced $58,000. Ptr Ink 130:133-6 Ja 8 '25
When the idea is more important than the product; Johns-Manville campaign on trade marked houses. R. Cole. Ptr Ink 131:133-4+ Ap 2 '25

See also Advertising—Architects, Appeal to

Bibliography
Selected list of manufacturers' publications. Published in monthly numbers of Architectural forum

Catalogs
Pacific coast index; a catalog of building and engineering products manufactured on the Pacific coast. Pacific coast index, inc., San Francisco, Los Angeles '24

Prices
Fluctuations in the prices of engineering materials during 1924; chart. Engineer 139: 14 Ja 2 '25
Outlook for materials prices in 1925. Eng N 94:83 Ja 8 '25
Price cuts in building materials in New York. Comm & Fin Chr 119:517-18 Ag 2 '24
Price outlook for construction materials. Eng N 92:46-50 Ja 3 '24
Prices and labor rates during the past fifty years. Eng N 92:748-50+ Ap 24 '24; Chart. 92:686a Ap 17 '24
Prices of building materials in Denmark in 1923. Monthly Labor R 18:1023 My '24
Prices of construction materials during April, May and June of each year since 1913. Eng N 92:43 Ja 3 '24
Prices of the principal construction materials. Published in weekly numbers of Engineering news-record
Retail prices of building materials. Published in monthly numbers of Engineering and contracting (buildings)
Spring prices of materials 1913-1924. Eng N 94:82-3 Ja 8 '25
Trend of building costs. Eng & Contr (Bldgs) 61:1147-9 My 28 '24
Trend of material prices (wholesale). Published in monthly numbers of Building age
Trend of prices of building material, building wage rates, and rents, 1919 to 1924. Monthly Labor R 20:792-4 Ap '25

Temperature
Temperature of colored building materials. H: A. Gardner. Am Arch 127:96 Ja 28 '25

Testing
Current research in materials. Eng N 94:976 Je 11 '25
Étude expérimentale de la transmission de la chaleur par quelques matériaux de construction, faite à l'Université de Lausanne. Génie Civil 84:43-4 Ja 12 '24
Materials testing, theory and practice. I. H: Cowdrey and R. G. Adams. 129p Wiley '25
Measuring heat transmission in building structures and a heat transmission meter. P. Nicholls. il diags Am Soc Heat & V E J 30:35-70 Ja '24; Discussion. 30:264-7 Mr '24
Practical applications of the heat flow meter. P. Nicholls. Am Soc Heat & V E J 30: 439-51 Je '24
Transmission of heat through building materials. F. B: Rowley. Minn U Eng Exp Sta Bul 3:1-74 '23

BUILDING officials' conference
Annual meeting, 10th, Louisville, April 8-10. Eng N 92:732 Ap 24 '24

BUILDING sites
Controlling the subdivision of land into building lots. R. Whitten. Munic & Co Eng 68:319-22 Je '25
Helping the owner select the right home site. C. E. Schermerhorn. Bldg Age 47:88+ Ja '25
Improving an irregular lot. G: N. Ray. il plans Bldg Age 47:150 Mr '25
Novel division of lot to secure maximum frontage. il plans Bldg Age 45:58-9 D '23
Plotting out the tract to best advantage. plan Bldg Age 46:77 O '24

BUILDING sites—*Continued*
Selecting a house design that will fit the lot. H. M. Fisher. il Bldg Age 46:70-1 F '24

BUILDING stone
Building stones of Kentucky. C: H: Richardson. 355p Kentucky geol. survey, Frankfort '23
Cut stone trim. R. M. Singer. il Bldg Age 47: 118+ Ag '25
French building stones from Bresse and Dauphine. Arch & Bldg 56:48-9 My '24
French building stones from Poitou and Lorraine. V: Truant. Arch & Bldg 56:33-4 Ap '24
Some aspects of stone decay. J. J. Fox and T. W. Harrison. Soc Chem Ind J 44:145-9 Ap 3 '25
Stone decay and the preservation of buildings. A. P. Laurie. il Soc Chem Ind J 44:86-92 F 27 '25

See also Concrete stone; Granite; Limestone; Marble; Quarries and quarrying

Cleaning

Cleaning stone buildings. Eng & Contr (Bldgs) 60:1115-16 N 28 '23

BUILDING surveys
Building surveys. A. S. Malcomson. Bldg Age 46:100+ Je '24

BUILDING trades
Building the year round. Bldg Age 46:58 Ag '24
Custom-made house; its high cost the penalty of being an exception in a machine-made age. E. F. Lloyd. Annalist 23:241+ F 18 '24
Economics as relating to architecture; economic factors which underlie construction activity—prepared for the American architect by the American chamber of economics. Am Arch 124:585-6+; 125:37-40, 91-2 D 19 '23-Ja 16 '24
Family of builders, Duluth. P. Brockway. il plans Bldg Age 47:97-9 F '25
Grasping builder opportunity. B. C. Reber. il plan Bldg Age 47:122-3 S '25
If I were a builder. J. T. Beard. Bldg Age 47:106+ Mr '25
Let your clients sell for you! H. G. Hart. il plans Bldg Age 47:94-5 Ja '25
Place, the man, the result; how success came to a young builder. il plans Bldg Age 45: 40-4 N '23
Preventable causes of expense in housing. Monthly Labor R 18:388-91 F '24
Professor Bristol's table, showing the average time lost for all building trades in Cedar Rapids for the three-year period, 1920-1922. Sheet Metal Worker 15:606 Ag 29 '24
Quality and quantity of Buncombe. C: Eidlitz. Am Inst Arch J 12:134-5 Mr '24; Discussion. 12:135-7, 189-90 Mr-Ap '24
Story of Frank N. Goble, master builder. il plans Bldg Age 46:75-81 Ja '24
To reduce idleness in industries. Iron Age 114:203 Jl 24 '24
The "sub." Am Inst Arch J 11:441-3 N '23
Uneconomic practices in the building industry; preliminary report of the committee to the New York chapter, A.I.A. Am Arch 125: 559-60 Je 18 '24
Winning in the building game with bare hands. A. W. Roe. il plans Bldg Age 46: 98-100 N '24

See also Building gilds; Building loans; Contractors; Plumbing trade; Winter construction; *also* American construction council; Associated general contractors; Council on industrial relations for electrical construction industry; National erectors' association

Accounting

See Concrete construction—Accounting; Contractors—Accounting

Advertising

Interesting newcomers in home building. F. Faulhaber. Bldg Age 45:55-6 D '23
Local advertising will help get business. F. H. Williams. Bldg Age 46:85-6 S '24
Small advertisements as business getters. G: Wissman. Bldg Age 46:82+ O '24

See also Lumber trade—Advertising; Marble—Advertising

Directories

Thomas manual & classified directory of the building industry and allied trades of Greater New York, Long Island, Westchester county and northern New Jersey. Spring (1924) ed. 340p Thomas service corp., 2 W. 29th st., New York '24

Exhibitions

Erie builds model house. il plans Bldg Age 46:50-1 O '24
Own your home shows help the building industry. il Bldg Age 46:94-5+ My '24

Labor problems

Allowances for time lost by Australian building laborers. Monthly Labor R 20:609-10 Mr '25
American plan vindicated. Arch & Bldg 57: 73-4 Ag '25
Apprentice education in the building trades. Eng & Contr (Bldgs) 61:483 F 27 '24; Excerpt. Eng N 91:906 N 29 '23
Apprentice education in the construction industry. (Bul. no. 92) 45p U.S. Federal board for vocational education, Washington, D.C. '24
Apprentice system revived in building industries. Comm & Fin Chr 117:2277 N 24 '23
Apprenticeship in the building trades. Monthly Labor R 18:496-7 Mr '24
Apprenticeship in the building trades in Washington, D.C. M. Conyngton. Monthly Labor R 20:1-7 Ja '25
Apprenticeship in the building trades of Boston. W: S. Parker and others. Boston Soc C E J 10:381-43; Discussion. 403-10 N '23
Apprenticeship work of New York building congress. Monthly Labor R 21:180-1 Jl '25
Building labor situation reviewed. Manuf Rec 88:71-2 O 29 '25
Cooperative apprentice training in the building trades at Niagara Falls. W: J. Small. Univ of the State of New York Bul 797:1-22 '24
How can the spirit of craftsmanship be revived in the building industry? E. J. Mehren. Eng N 93:837-8 N 20 '24; Same. Sanitary & Heat Eng 103:35-7+, 113-14 Ja 23, F 20 '25; Same cond. Comm & Fin 13:2233-4 N 19 '24
Indiana court finds agreement not to exceed a maximum rate of pay legal. Eng N 95:233 Ag 6 '25
Irregularity of employment as a factor in high labour costs. W: S. Parker. Int Labour R 9:361-71 Mr '24
Labor outlook for 1925. Eng N 94:84-5 Ja 8 '25
Labor productivity and costs in certain building trades. E. Stewart. Monthly Labor R 19: 945-59 N '24; Abstract. Arch Forum 42:29-30 Ja '25
Progress in the movement for apprenticeship training. A. W. Dickson. Eng & Contr (Bldgs) 62:701-3 S 24 '24
Strike in German building trades. Monthly Labor R 21:862 O '25
Wage scales for skilled craftsmen in building trades hold firm. Comm & Fin Chr 119:517 Ag 2 '24
Wage scales in the building trades in effect January 15, 1924. Bldg Age 46:100-1 F '24
Wage scales in the building trades, November 1, 1923. Monthly Labor R 17:1332-6 D '23
Wage scales of employees in the building trades, January 1, 1925. Monthly Labor R 20:314-19 F '25
Why boys do not enter the building trades. Eng & Contr (Bldgs) 61:883-4 Ap 23 '24

See also National board for jurisdictional awards

BUILDING trades—*Continued*

Statistics

Architect and the business cycle. T: S. Holden. charts Arch Rec 54:383-7 O '23; Same. Eng & Contr (Bldgs) 61:903-7 Ap 23 '24

Building construction. Survey of Cur Business 30:97-100 F '24 [continued quarterly]

Building situation; a monthly review of costs and conditions; graphic chart. Arch Forum 42:27 Ja '25

Little let-up in building activities. Bradstreet's 53:450 Jl 11 '25

Summary of total construction in 1923 and 1924. Eng N 93:932 D 4 '24

Trend of business movements. Published in monthly numbers of Survey of current business

California

Houses that pluck built! F: H. Williams. il plan Bldg Age 47:102-3+ Mr '25

Restriction of marketing of building materials as affecting interstate commerce. Monthly Labor R 20:1346-8 Je '25

Canada

Association of Canadian building and construction industries 7th convention, Montreal, Jan. 28-30. Can Eng 48:188-90, 216 F 3-10 '25

Review of building construction, 1923. J. M. Pigott. Can Eng 46:238-9 F 12 '24

Review of construction industry, 1924. J. M. Pigott. Can Eng 48:199-200 F 3 '25

Chicago, Illinois

Fight for fair play in Chicago. T. E. Donnelley. Nation's Business 13:48 F '25

France

Census of French building construction. Eng N 93:990 D 18 '24

Great Britain

Achievements of the building industry. Economist 100:386-7 F 28 '25

Builders' history. R. W: Postgate. 487p Labour pub. co., London '23

Wages in the building industry. Economist 99: 562 O 11 '24

Hawaiian Islands

Selling Yankee home ideas to the oriental. W: B. Stoddard. il Bldg Age 46:78-9+ S '24

New York (city)

Decline in New York city building operations brings state building below first quarter of 1924—majority of cities gain. Comm & Fin Chr 120:2352-3 My 9 '25

Successful attempt to co-operate; how the building industry of New York is solving its problems. S. F. Voorhees. Am Mach 61:561-2 O 9 '24

Two-year agreement granting fifty-cent daily wage increase to be signed in New York building trades. Comm & Fin Chr 117:2831 D 29 '23

New York (state)

April gains in building plans in New York state. Comm & Fin Chr 120:2875 Je 6 '25

Building plans in New York state move upward in 1924—residential work recedes in New York city, but gains outside. Comm & Fin Chr 120:639-40 F 7 '25

N.Y. state industrial commission reports building plans in May 30% below April. Comm & Fin Chr 121:23 Jl 4 '25

United States

Analysis of building statistics for the United States. J. B. Hubbard. charts maps R Econ Statis 6:32-62 Ja '24

Analyzing the last three years of building activity. C. S. Taylor. charts Arch Forum 39: 307-14 D '23

Annual review of contracts statistics. Eng N 92:44 Ja 3 '24

Another surge forward in building. Bradstreet's 53:529-30 Ag 15 '25

Building and real estate. Moody's Inv Serv 17:230-1 Jl 9 '25

Building construction. Comm & Fin Chr 118: 1201-2 Mr 15 '24 [continued monthly]

Building construction in 1923 extraordinary. Comm & Fin Chr 118:18-19 Ja 5 '24

Building for November and eleven months. Bradstreet's 52:797 D 13 '24

Building for three months. Bradstreet's 53: 273 Ap 25 '25

Building in 1923—and after. N. F. Hoggson. Annalist 23:12+ Ja 7 '24

Building in 1925 nearly on a normal basis. T: S. Holden. Annalist 25:191 F 2 '25

Building industry moving to normal. N. Sargent. Am Ind 24:38+ D '23

Building operations. Dun's R 32:8 F 16; 8-10+ Ap 12; 8-9+ Ag 9; 8-9+ D 6 '24; 33:10 Ja 17; 10-11+ My 9; 10-11+ S 5 '25

Building prospect for 1924. T: S. Holden. Arch Rec 54:584-6 D '23

Building sags from March peak. Bradstreet's 52:302, 317 My 10-17 '24

Building situation. chart Arch Forum 40:sup 57-8 Ja '24

Building still ahead of last year. Bradstreet's 52:445-6, 461 Jl 12-19 '24

Building totals for December and November, 1924, for December, 1923, and for calendar years 1924 and 1923. Bradstreet's 53:49-50 Ja 17 '25

Building volume to exceed that of 1924. J. B. Stewart. Annalist 25:35 Ja 5 '25

Business side of construction. Published in weekly numbers of Engineering news-record

Commercial building in 1923 was 4 per cent above 1922 volume. Eng N 92:260 F 7 '24

Construction barometer. See weekly numbers of Engineering news-record and monthly numbers of Building age and Engineering and contracting (buildings)

Construction has not been asleep. T. S. Morgan. Nation's Business 13:56 Ap '25

Construction outlook for 1924. I. L. Smith. Eng & Contr (Bldgs) 60:1339-44 D 26 '23

Construction's great growth. Am Ind 24:22 F '24

Controlling economic factor in current building. H. Croly. Arch Rec 56:185-6 Ag '24

Economics as relating to architecture; economic factors which underlie construction activity—prepared for the American architect by the American chamber of economics, incorporated. Published in American architect

Engineering news-record statistics of cost and volume. Eng N 94:79-85 Ja 8 '25

Forecast of building construction. M. C. Tuttle. Eng & Contr (Bldgs) 62:1363-5 D 24 '24

Hoover committee reports on seasonal construction. Eng N 93:144-5 Jl 24 '24

How 1923 contracts were distributed. map Eng N 92:345 F 21 '24

Industrial building increases. R. T. Mason. il Iron Tr R 74:37-9+ Ja 3 '24

Jurisdictional menace today. C: B. King. Am Ind 25:41-5 Jl '25

Midsummer building totals large. Bradstreet's 52:526 Ag 16 '24

1923 record of new building construction. Comm & Fin Chr 118:254-5, 477-82 Ja 19, F 2 '24

1924 building situation. Eng & Contr (Bldgs) 60:1161-2 N 28 '23

1924 industrial building drops. R. T. Mason. il Iron Tr R 76:70-2 Ja 1 '25

1924 record of new building construction. Comm & Fin Chr 120:377-83 Ja 24 '25

Outlook for building and construction. Comm M 7:3-13 N '25

Outlook for 1925. E. J. Brunner. Eng & Contr (Bldgs) 63:183-90 Ja 28 '25

Review of building activity during 1924. Arch Forum 42:23-6 Ja '25

S. W. Straus & co.'s building survey. Eng & Contr (Bldgs) 64:971-2 O 28 '25

BUILDING trades—United States—*Continued*
Seasonal operation in the construction industries, the facts and remedies; report and recommendations of a committee of the President's conference on unemployment. 213p McGraw-Hill '24
Situation in the United States building industry. Can Eng 46:628 Je 17 '24
Speculative building peaks in cities. T: S. Holden. Annalist 23:367+ Mr 24 '24
Straus reports biggest four months and strong upward trend. Eng & Contr (Bldgs) 63:1179-80 My 27 '25
Trend of prices of building material, building wage rates and cost of living, 1913-1923. Monthly Labor R 18:81-2 Ja '24
Turn in building trade. Bradstreet's 52:589 S 13 '24
Twelve billion dollar building market. C. S. Taylor. charts Am Bankers Assn J 16:429-31 Ja '24
Twelve year analysis of construction volume. charts Eng N 93:610-11 O 9 '24
Volume of construction in recent years. Eng & Contr (Bldgs) 62:1169-74 N 26 '24
Weather and construction. charts Eng & Contr (Bldgs) 62:1175-87 N 26 '24
Weather and outdoor construction. Eng & Contr (G C) 63:802 Ap 17 '25
Wonderful year in building. Bradstreet's 52: 29-30 Ja 12 '24

BUILDING zones. See City planning—Zone system

BUILDINGS
See also Architecture; Armories; Bank buildings; Building; Building failures; Capitol buildings; College architecture; Community centers; Concrete buildings; Courthouses; Department stores; Exhibition buildings; Exits; Factories; Farm buildings; Foundries; Gymnasiums; High buildings; Historic houses; Hotels; Industrial buildings; Machine shops; Market buildings; Mechanical equipment of buildings; Mercantile buildings; Mine buildings; Municipal buildings; Office buildings; Public buildings; Railroads—Buildings and structures; Schoolhouses; Store buildings; Storehouses; Theaters; Warehouses

Cleaning
See also Building stone—Cleaning

Preservation
Stone decay and preservation of buildings. A. P. Laurie. il Soc Chem Ind J 44:86-92 F 27 '25
See also Pittsburgh, Pennsylvania—County jail

Refacing
Refacing old buildings. il Am Arch 127:347-8 Ap 8 '25
See also Stucco

BUILDINGS, Office. See Office buildings

BUILDINGS, Remodeled
Builders' magic; old church becomes a house. il plans Bldg Age 47:96-7 Ja '25

BUILDINGS, Small
Small buildings. Published in monthly numbers of Architectural forum

BUILDINGS, Standard
Using simplification to increase our sales. J. Kahn. il System 47:151-6+ F '25

BULBS
Bulb embargo won't harm advertising. Ptr Ink 132:95-6 Ag 27 '25

BULGARIA
See also Labor and laboring classes—Bulgaria; Labor laws and legislation—Bulgaria

Commerce
Doing business in the Balkans. S. Crowther. il System 45:786-9+ Je '24

BULK stations, Oil. See Oil bulk stations

BULKHEADS
Box bulkhead used in repair of valves in canal lock. F. Y. Parker. il Eng N 94: 531 Mr 26 '25
Bulkheads at the mouth of the Mississippi. il Eng & Contr (Ry) 61:637-9 Mr 19 '24
Concrete sheetpile levee wall at New Orleans. W. M. Peters. il diags Eng N 93: 257-8 Ag 14 '24
Reducing the cost of concrete bulkheads. T. Aston. il diags Concrete 25:28-30 Jl '24
Steel sheetpiling in salt water at Havana, Cuba. il diags Eng N 92:1086-8 Je 26 '24

BULKHEADS (naval architecture)
Safety factors in lake ships. A. Lindblad. diags Marine R 54:58-62 F '24
Subdivision of passenger ships. J. F. King. Engineering 117:157-9 F 1 '24

BULKY products. See Products, Bulky

BULLDOZERS. See Forging machinery

BULLEN, Henry Lewis, 1857-
Bon voyage to Henry Lewis Bullen. H: L: Johnson. por Inland Ptr 72:641-2 Ja '24

BULLETIN boards
How can I get my plant bulletins read? il Factory 31:762-3+ D '23

BULLETIN boards, Salesmen's
Is your sales bulletin board a joke or a help? Ptr Ink 133:174+ O 22 '25

BULLETINS
See also Safety bulletins

BUMP, Milan R., 1881-1925
Sketch. por Elec W 85:989-90 My 9 '25; N E L A Bul 12:374 Je '25

BUMPERS, Automobile. See Automobiles—Bumpers

BUMPING posts
Anchoring bumping posts in a new way. il Ry Age 78:330 Ja 31 '25; Same. Elec Ry J 65:232 F 7 '25
Bumping posts likely to stand. il Ry R 76: 979 My 30 '25
Lawrence bumping post. il Ry R 76:627 Mr 28 '25

BUMPING posts, Concrete
Concrete bumping blocks on station tracks, Camden terminal, present pleasing appearance. il diags Ry R 75:283-4 Ag 23 '24

BUNDLING machines, Scrap metal
Baling copper scrap makes sale easier. il Elec Ry J 65:772 My 16 '25
Electric scrap baling. il Blast F & Steel Pl 12:450 O '24
Horizontal press for baling ordinary steel scrap. il Iron Age 114:1669 D 25 '24; Am Mach 62:867 My 28 '25
Scrap bundling machine adapted for steel or brass in long or short strips or coils. il Iron Age 112:1393-4 N 22 '23
Tempus no. 4 hydraulic scrap metal bundling machine. il Iron Age 114:438 Ag 21 '24

BUNGALOW-garage
Bungarage. F. T. Phillips. il diags plan Bldg Age 46:92-3 Ap '24

BUNGALOWS
American bungalow homes. il plans Bldg Age 46:71-101+ Ap '24
Attractive economical bungalows; with quantity survey. il diags Bldg Age 47:118-20 Ja '25
Bungalow courts of San Diego. il plans Bldg Age 47:104-5 N '25
Bungalow home. E. A. Young. il plan Bldg Age 46:50-1 Ag '24
Bungalow homes. il plans Bldg Age 46:68 Ja; 74 Jl; 72-3 S; 91 N '24; 47:116-17 Mr; 122-3 Je; 130 S '25
Bungalow of sedate charm; blue print supplement and quality survey. il Bldg Age 47:130-6 F '25
Bungalows, camp and mountain houses. W: P. Comstock, comp. 3d ed., rev. & enl. 160p William T. Comstock co., New York '24
Craftsman bungalows in Northbrae, Berkeley, Cal. il plans Arch & Bldg 57:Dwelling House ser 11 Je '25

BUNGALOWS—*Continued*
Curved roofs feature these two bungalows. il plans Bldg Age 45:70 D '23
Design of a picturesque stone bungalow. Arch & Bldg 56:Dwelling house ser 21 O '24
Dignity and charm unite in this colonial design. il plans Bldg Age 47:130-1 Ap '25
Economy bungalow; with quantity survey diags plan Bldg Age 46:62-4 Ja '24
Flavor of rustic England in this bungalow. il plan Bldg Age 47:104-5 F '25
Profit in bungalow courts. R. Hawkins and H. Hawkins. il plans Bldg Age 46:92-4 N '24
Spanish bungalow; with blue prints. il Bldg Age 47:110-15 Ja '25
Unusual building development by clever planning in Los Angeles. R. M. Singer. il plans Bldg Age 47:94-6 F '25

BUNSEN burner
Bunsen burners. E. F. Craggs. Gas J (Lond) sup 3:241-3 D 31 '24
Origin of the Bunsen burner. L. M. Dennis. Ind & Eng Chem 17:651 Je '25

BUNSEN flame
Ionization of caesium vapor and the mobility of electrons in the Bunsen flame. B. T. Barnes. diags Phys R 23:178-88 F '24

BUNTE, Hans, 1848-1925
Sketch. por Gas J (Lond) 172:92 O 14 '25

BUNYAN, John, 1628-1688
Famous machinists of history. H. H. Manchester. por Am Mach 60:758 My 22 '24

BUOYS
Modern gas and bell buoy built by lighthouse service. il diags Eng N 93:783-4 N 13 '24; Sci Am 132:115 F '25

BURBANK, Luther
Interview, by B. C. Bean. por System 46:156-7 Ag '24

BUREAU for the safe transportation of explosives and other dangerous articles
Bureau of explosives and its work. B. W. Dunn. Nat Safety N 8:12 N '23
Co-operatively developing regulations for the safe transportation of petroleum products by railroad. B. W. Dunn. Am Pet Inst Bul 4:150-3 D 31 '23
Work of the Bureau of explosives. Chem Age 23:113-14 Mr '24

BUREAU of explosives. See Bureau for the safe transportation of explosives and other dangerous articles

BUREAU of personal accident and health underwriters
Bureau of personal accident and health underwriters. J: E. Ahern. Spectator 113: 63-4 sec 2 Jl 17 '24

BUREAU of safety. See Interstate commerce commission—Bureau of safety

BURETS
Automatic buret and flask for standard alkali solutions. H. R. McMillin. diag Ind & Eng Chem 17:592 Je '25
Buret for micro gas analysis. J. A. Christiansen. diag Chem Soc J 47:109-12 Ja '25
New correction tube for gas burets. F. C. Vilbrandt. diag Ind & Eng Chem 16:936 S '24

BURGESS laboratories
Chemical research and commercial rivalry. Chem Age 31:508-9 N '23

BURGLAR alarms
Automatic electric burglar alarm. diag Elec R (Lond) 96:917 Je 5 '25
Die elektresor-kassensicherung E/III. W. Blut. il diags Elektrotech Zeit 46:150-7 Ja 29 '25
Holz und andere halbleiter als praktisch brauchbare stromleiter. W. Blut. diag Elektrotech Zeit 46:842-3 Je 4 '25
Super-alarms in our super-banks. E: H. Smith. il Burroughs Clearing House 8:23-5 F '24

BURGLARY
Bank burglar at close range. H. McLellan. il Burroughs Clearing House 9:19-21+ My '25
Giving them "life" for stick-up. T: J. Malone. il Burroughs Clearing House 9:21-3+ Je '25
Latest developments in bank burglary. E: H. Smith. il Sci Am 131:393-5 D '24
Outwitting the safe-breaker. H. R. Simonds. il Iron Tr R 74:415-19 F 7 '24
Romance of the lock; its development, and the means employed to beat it, from the earliest days. E: H. Smith. il Sci Am 130: 78-9+ F '24
Vigilante guard of Iowa's banks. E: H. Smith. Burroughs Clearing House 8:19-20+ Ag '24

BURGLARY insurance. See Insurance, Burglary

BURKE, Thomas
Why they cheered—"He built Seattle." por Nation's Business 13:30 S '25

BURLINGTON, Vermont
Water supply
Burlington waterworks notes. Pub Works 56:169 My '25

BURMA
See also Electric industries—Burma

BURMAH oil company
Annual general meeting, 22d. Economist 98: 1221-4 Je 14 '24
Annual general meeting, 23d. Economist 100: 1196-9 Je 13 '25
Burmah oil company. J: Gillespie. Inst Pet Tech J 10:651-3 S '24

BURNERS, Gas. See Gas burners

BURNERS, Oil. See Oil burners

BURNHAM chemical company
Easy money from borax and potash; a criticism of the promotion methods of the Burnham chemical co. Chem & Met Eng 31:295-7 Ag 25 '24

BURNISHING. See Polishing

BURNS and scalds
Butesin picrate—a new treatment for burns. F. K. Thayer. Blast F & Steel Pl 12:463 O '24; Same. Brass W 21:44 F '25
Treating the caustic burn. G. L. Coan. Nat Safety N 11:22 F '25
Treatment of burns. J. J. Wymer. il Elec Ry J 65:581-2 Ap 11 '25

BURRELL methane indicator
Critical study of the Burrell indicator for combustible gases in air. L. H. Milligan. il diags U S Bur Mines Tech Pa 357:1-40 '25
Detection of small quantities of petroleum vapor with the Burrell methane indicator. G. W. Jones and W. P. Yant. diags U S Bur Mines Tech Pa 352:1-19, pl 1 '24

BURROWS, Alfred Granville, 1878-
Geologists of note. G. C. Bateman. por Eng & Min J 120:484 S 26 '25

BUS lighting. See Motor buses—Lighting

BUSBARS
Arrangement of primary and secondary buses for transformer bank. R. S. Huntington. il Ind Eng 82:546-7 N '24
Bus structures of pipe framing combine operating flexibility and mechanical stability. il Elec W 86:786 O 17 '25
Bus tunnel for heavy substation leads. E. A. Crellin. il diags Elec W 85:409-10 F 21 '25
Magneto-mechanical loads on bus supports. L. N. Robinson. diags Am Inst E E J 42: 1063-7 O '23; Discussion. 43:361-4 Ap '24
Mechanical stresses in busbar supports during short circuits. O. R. Schurig and M. F. Sayre. Am Inst E E J 44:365-72 [bibliog. p. 372] Ap '25
Method of straightening and cleaning busbars. S. H. Samuels. Ind Eng 83:401 Ag '25
Omitting generator bus effects saving. R. W. Shoemaker. diag Elec W 82:1073 N 24 '23

BUSES, Electric. See Electric buses

BUSES, Motor. See Motor buses

BUSH House, London
Detail of Aldwych front of Bush House, London. Am Arch 128:pl 243 S 9 '25
Yankee building in heart of London. P. Perlman. il Am Ind 26:30-2 Ag '25

BUSHINGS

Advantages of the floating bushing. Ry Mech Eng 99:200, 259-60, 405-6 Ap-My, Jl '25

Bush worn mine-car wheels with brass. il Coal Age 27:515-16 Ap 2 '25

Close work on a cast iron bushing. D. T. Hamilton. il Am Mach 60:915-17 Je 19 '24

Drill bushings, slip type; reference-book sheet. Am Mach 63:69 Jl 9 '25

How the American locomotive company machines cylinders and bushings. L. C. Morrow. il Am Mach 61:675-9 O 30 '24

Joints in silent chain; renewable split bushings. il Iron Age 114:630 S 11 '24

Selecting wheel for grinding holes in bushings. C. Wheeler. diags Mach 31:887 Jl '25

Why not bushings? W. E. Irish. il Ind Management 67:200-3 Ap '24

Testing

Pendulum bearing tester. L. C. Price. Sibley J 39:239-41 Ja '25

BUSHINGS, Insulating

Condenser type bushings; their design and calculation. K. Humburg. il diags Electrician 93:198-9+ Ag 22 '24

High-voltage switches, bushings, lightning arresters; experiences of the Southern California Edison co. H. Michener. Am Inst E E J 42:1251-4 D '23; Discussion. 43:361-4 Ap '24

Mammoth roof bushing for 165,000-volt circuit. il Elec W 82:1004 N 17 '23

BUSINESS

The A B C's of business. H: S. McKee. 135p Macmillan '25

Analytical ratio study of an industry using the milling industry on the Pacific coast and in the middle western states as an example. R. N. Mathisen. Univ of Southern California, Los Angeles, Sch of Comm and Business Adm Bul 3:1-64 [bibliog. p. 6] '25

Banking and business. H: P. Willis and G: W. Edwards. rev. and enl. ed. 565p Harper '25

Brains in business. F. A. Nagley. 317p A. C. McClurg & co., Chicago '24

Business—a profession. L: D. Brandeis. 374p Small, Maynard & co., Boston '25

Business and higher learning. J. H. Penniman. Nation's Business 13:56+ N '25

Business economics; report of proceedings, ninth national convention, New York city, October 18-20, 1922. 354p Society of industrial engineers, Chicago '23

Business fundamentals. A. T. Simonds. 221p Ronald press '23

Business guide, an outline of business. J. L. Nichols. 89th ed. 544p J. L. Nichols & co., Naperville, Ill. '24

Business innocent abroad; British business methods. H. Schott. il Nation's Business 13:35-7 Mr '25

Business is business. M. T. Thorpe. Brick & Clay Rec 65:896-901 D 23 '24

Business news of 350 years ago. il Nation's Business 13:38-9 S '25

Case for business. R: F. Grant. Nation's Business 13:18-20 Ja '25

Comparison of an individual concern with the Harvard index of general business. 24p Harvard economic service, Cambridge, Mass. '24

Difference between the data hound and the data expert. J. H. Collins. Ptr Ink 127: 3-4+ Je 5 '24

Don't block the way to better distribution. E: A. Filene. Ptr Ink M 9:19-20+ D '24

Fifteen commandments of business. E. B. Parker. Nation's Business 12:16-18 Je 5 '24

Flexibility of American business. A. P. Dennis. Nation's Business 12:27-9 D '24

Genius of American business. J. H. Barnes. 154p Doubleday '24

Influence of American business on national life. A. P. Usher. Harvard Business R 2:257-67 Ap '24

Introduction to business. H. H. Maynard and W. C. Weidler. 616p Ronald press '25

Junior training for modern business. J: G: Kirk and M. A. Waesche. 376p John C. Winston co., Philadelphia '25

Lessons in business. E: T: Roe. 512p John A. Hertel co., Chicago '24

Literature of business. A. G. Saunders and H. Le S. Creek. Rev. ed. 554p Harper '23

Making business advancement sure. W: M. Jackson. 140p Stokes '24

Mobility of American business. A. P. Dennis. Nation's Business 12:32-4 N '24

Money grubbing—for culture. A. D. Welton. Nation's Business 13:50+ My '25

New business-law and banking. E: T: Roe and E. G. Loomis. 768p John A. Hertel co., Chicago '24

News of organized business. Published in monthly numbers of Nation's business

Organized business knowledge. J. F. Johnson. 204p B. C. Forbes pub. co., New York '23

Place of human sciences in modern organized business. E. B. Twitmyer. Ann Am Acad 115: 47-51 S '24

Principles of business economics. J. Stephenson. 496p Pitman '24

Problems in business economics. H. B. Vanderblue. 631p Shaw '24

Psychology in business. C. H. Crennan and F. A. Kingsbury, eds. 232p Am. acad. of pol. and soc. sci. '23

Psychology in business relations. A. J. Snow. 562p Shaw '25

Railroads as factors in business. C. H. Markham. Ry Age 77:601-4 O 4 '24

Romance of American business. A. P. Dennis. Nation's Business 12:25-8 O '24

Selling distribution and its new economics. H. W. Hess. Ann Am Acad 115:1-7 S '24

Taking the guesswork out of business. W: R. Basset. 179p B. C. Forbes pub. co., 120 5th av., New York '24

Treatise on commercial practices with special reference to their application in the practice of pharmacy. S. S. Smith. 214p Frank H. Evory & co., Albany '24

Vindication of private enterprise in business. E. Benn. Chem Age (Lond) 13:326-7 S 26 '25

Vitality of American business. A. P. Dennis. Nation's Business 12:13-16 S '24

The way out; a forecast of coming changes in American business and industry. E: A. Filene. 306p Doubleday '24

We should know more about our business. I. S. Paull. Textile World 65:770-1 F 2 '24

What governs the ups and downs of business? R: F. Grant. System 47:43+ Ja '25

See also Accounting; Advertising; Applications for position; Auditing; Billing; Bookkeeping; Budget, Business; Business conditions; Business education; Business failures; Business management; Catalogs; Chamber of commerce of the U.S.; Chambers of commerce; Christmas business; Collecting of accounts; Commerce; Commercial correspondence; Commercial law; Commission merchants; Competition; Corporate names; Corporations; Cost accounting; Credit; Delivery of goods; Department stores; Discount; Efficiency, Industrial; Employment management; Exclusive agencies; Executives; Export trade; Files and filing (documents); Finance; Financial statements; Good will (in business); Government regulation of industry; House organs; Ideas in business; Industrial management; Instalment plan; Insurance; Inventories; Jobbers; Location in business; Mail order business; Mailing lists; Manufactures; Market surveys; Marketing; Mercantile agencies; Merchandizing; Money; Notions (merchandize); Occupations; Office appliances; Office management; Organization in industry; Panics; Partnership; Profit; Promoters; Purchasing; Railroads—Office management; Real estate business; Records; Retail trade; Risk; Sales letters; Salesmanship; Salesmen; Seasonal industries; Secretaries, Private; Service (in industry); Shipment of goods; Show windows; Slogans; Success; Trade marks; Trust companies; Turnover; Valuation; Warehouses; Wealth

BUSINESS—*Continued*

Bibliography

A. L. A. reading course on business. 11p American library association, Chicago '22

Annalist business bookself. Brief reviews of important books are published from time to time in the Annalist

Bibliography of books on business economics. R. L. Smitley. 185p Dixie business book shop, inc., 140 Greenwich St., New York '25

Business library; 100 books for executives, suggested by John Cotton Dana. Credit M 26:45 O '24

Business library; revised list of 100 books for executives. J: C. Dana. Credit M 27:30-1 Ja '25

Current business books. Lib J 49:356-60 Ap 15 '25

Few of the outstanding books on business economics. R. L. Smitley. Special Lib 15: 200-2 O '24

How the government aids progressive printers and advertisers. U. V. Wilcox. Ptd Salesmanship 45:549-54 Ag '25

Outstanding business books of 1923. H. P. Preston. Annalist 23:47+ Ja 7 '24

Outstanding business books of 1924. H. P. Preston. Annalist 25:43 Ja 5 '25

Outstanding current business books. E. Cleland. Lib J 49:271-8 Mr 15 '24

Reading lists for students of commerce and business administration. 32p Univ. of Chicago, School of commerce and administration, Chicago '24; Same abr. Univ J of Business 2:216-47 Mr '24

Recent business and financial literature. A. B. Claflin. Special Lib 14:125-6 O '23

Reference sources for business use. E. Cleland. Lib J 49:339-46 Ap 15 '25

Some recent business books. M. A. James. Special Lib 14:148-9 N '23

What to read on business. 45p Univ. of Nebraska, College of Business Administration, Lincoln '25

World of business print. E. Cleland. Special Lib 16:62-3, 92-3, 166-8 F-Mr, My '25

See also Advertising—Bibliography; Business libraries

Classification

Decimal classification (extracts). M. Dewey. 56p Forest press, Lake Placid club, New York '24

Dictionaries

Business dictionaries and glossaries. Special Lib 14:1-8, 167-70; 16:17-20 Ja, D '23, Ja '25

History

Sources of modern business principles and practice; Savary's Le parfait négociant. A. P. Usher. Harvard Business R 3:275-86 Ap '25

Periodicals

See Business periodicals

BUSINESS activity. See Business conditions

BUSINESS budgets. See Budget, Business

BUSINESS cards

Making business cards better business builders. F. H. Williams. Spectator 115:33-4 Jl 16 '25

Some examples of business cards. Inland Ptr 73:592a-d Jl '24

BUSINESS charts

Application of charts in industry. D: B. Porter. charts Management & Adm 7:65-72, 329-36 Ja, Mr '24

Charting the business seas. C. Snyder. Am Ind 25:13-16 Ag '24

Charts as management tools. A. R. Burnet. charts Management & Adm 9:55-8 Ja '25

Charts for report purposes. H. N. Stronck. Management & Adm 7:705-9 Je '24

Charts that help a small plant grow. H. W. Case. il Factory 35:382-4+ S '25

Control chart for the chief executive. W. Clark. Iron Age 115:829-31 Mr 19 '25; Same. Taylor Soc Bul 10:105-10 Ap '25

Executive control of future results. W. Clark. charts Management & Adm 7:179-82 F '24

Figures don't lie—but charts may. Sales Management 8:823-4+ My 30 '25

Graphic analysis for executives. W. A. Savage. 144p Codex book co., New York '24

Graphic statement of condition. Burroughs Clearing House 8:12-13 F '24

How the Walworth company looks ahead. J. H. Barber. Management & Adm 6:725-31 D '23

Our statistical charts. S. Bryon. Paper Tr J 80:59-62 Ja 29 '25

Road maps of industry. L. P. Ayres. Management & Adm 9:9-10 Ja '25

Semi-logarithmic chart. A. C. Haskell. Ind Management 66:300-1 N '23

Show your business in pictures. G. W. Greenwood. Brick & Clay Rec 65:834-5+ D 9 '24

See also Gantt charts

BUSINESS conditions

American business grows steadier. C. Snyder. charts Nation's Business 12:42-4 N '24

American business situation at the beginning of the new year. J. S. Alexander. Econ W n s 29:77-9 Ja 17 '25

Analysis of present conditions—comparison with fifty years ago. M. A. Traylor. Comm & Fin Chr 118:3039-42 Je 21 '24

Annalist index of business activity; a new graph. Annalist 25:253-4 F 16 '25

April business readjustment gradual. L: H. Haney. Iron Age 115:1204-6+ Ap 23 '25

April decline in business activity was emphatic. Annalist 25:645 My 11 '25

Bank clearings in 1923 and the course of trade and speculation. Comm & Fin Chr 118:352-9 Ja 26 '24

Bank debits vs. clearing as index of general business conditions. G: B. Roberts. Eng N 94:710-11 Ap 23 '25

Bankers anticipate a prosperous year. Annalist 25:5-6+ Ja 5 '25

Bankers at A.B.A. convention look for greater business activity. Comm & Fin Chr 121: 1620-1 O 3 '25

Bankers discuss business outlook. Bankers M 109:781+ O 31 '24

Basic economic factors affecting the present business readjustment in the United States. W. F. Gephart. Econ W n s 28:40-3 Jl 12 '24

Beginning of a new prosperity. W. W. Head. Am Bankers Assn J 17:195-8 O '24

Better business ahead. L. W. Alwyn-Schmidt. Am Gas J 120:140+ F 16 '24

Better days are approaching. M. Heir. Inland Ptr 73:917-20 S '24

Business activity at high point since postwar boom. Annalist 25:381 Mr 16 '25

Business barometer. See weekly numbers of American machinist, Annalist, Bradstreet's, Commerce and finance, Commercial and financial chronicle, Iron age and Iron trade review and monthly numbers of Federal reserve bulletin, Management and administration, National city bank of New York and Nation's business

Business conditions and currency control. W: T. Foster and W. Catchings. charts Harvard Business R 2:268-81 Ap '24

Business cycle resumes upward swing. L: H. Haney. Iron Age 116:552+ Ag 27 '25

Business elements on a sound basis as 1925 begins. J: W. Hill. Iron Tr R 76:48 Ja 1 '25

Business in Europe improved. H. C. Estep. map Iron Tr R 74:1230-1 My 8 '24

Business in Europe maintained. V. Delport. map Iron Tr R 76:1064-6 Ap 23 '25

Business outlook. Ind Management 69:379-82 Je '25

Business outlook as the world enters into a renaissance. J: Moody. Am Bankers Assn J 17:493-4 F '25

Business outlook for 1924. J: Moody. Burroughs Clearing House 8:5-7 Ja '24

Business outlook for 1924. J: Moody. Comm & Fin Chr 117:2269 N 24 '23

Business outlook is favorable. L. W. Allwyn-Schmidt. Am Gas J 120:238-9 Mr 15 '24

BUSINESS conditions—*Continued*
Business year, 1923. Bradstreet's 52:1-4 Ja 5 '24
Business year, 1924. Bradstreet's 53:17-21 Ja 10 '25
Car loadings a defective business index. C: W. Foss. Annalist 25:95 Ja 12 '25
Chain store sales not a reliable index of business. W. I. King. Annalist 25:771 Je 8 '25
Condition of business. Am Bankers Assn J 18:158+ S '25
Conflicting tendencies in industry and trade. Comm & Fin Chr 118:2114 My 3 '24
Department of commerce report on business indicators for March. Comm & Fin Chr 120: 2088 Ap 25 '25 [continued monthly]
Diseases of business. E. H. Gary. Comm & Fin Chr 120:2642-3 My 23 '25
Does the automobile hurt your business? A. H. Temple. Comm & Fin 13:1397-8 Jl 23 '24
Does the automobile-owning public eat macaroni? W. B. Edwards. Ptr Ink 126:91-2+ F 7 '24
Economic factors which underlie construction activity. Am Arch 124:456-8 N 21 '23
Economic prospects of 1924. H. Hoover. Am Mach 60:36e-f Ja 3 '24
Electrical energy consumption as a barometer of business trend. T. Dwight. Annalist 23: 263-5+ F 25 '24
Federal Reserve's view of 1923 business. Bradstreet's 52:22 Ja 5 '24
Finds business is optimistic. H. A. May. Am Ind 24:33 Ap '24
General business conditions. Nat City Bank p 190-2 D '24; Same. Econ W n s 28:802-3 D 6 '24
General business conditions. C: Cason. Textile World 65:2495+ Ap 12 '24
Guaranty trust co. of New York sees halt in business progress. Comm & Fin Chr 120:1026 F 28 '25
How bankers view prospects for 1925. Bankers M 110:137-9 Ja '25
How fares prosperity, if wages fall? C. M. Wright. Ptr Ink 126:169+ Ja 17 '24
Look ahead from the mid-year point. F. Greene. maps Nation's Business 12:22-3 Jl '24
Map of the nation's business. F. Greene. Published in monthly numbers of Nation's business
Market of changing moods. L. W. Alwyn-Schmidt. Heat & Ven 21:83-4 Je '24
Monthly analysis of business conditions. Published monthly in Moody's investors service
New index of business activity. C. Snyder. charts Am Statis Assn J 19:36-41 Mr '24
1923 and 1924. C. A. Austin. Comm & Fin 13: 57-8 Ja 9 '24
1923 conservatism lays firm trade basis for 1924. J: W. Hill. Iron Tr R 74:54 Ja 3 '24
1923-1924—a review and forecast. Moody's Inv Serv 16:1-7 Ja 3 '24
1924-1925—a review and forecast. Moody's Inv Serv 17:9-15 Ja 8 '25
1925 advertising opportunity as a banker sees it. W. F. Gephart. Ptr Ink M 10:52 Mr '25
1925 promises to be a year of moderation and readjustment. Annalist 25:51 Ja 5 '25
Opinions of readers on outlook for 1924. Brass W 20:9-14 Ja '24
Outlook for 1925. Nat City Bank p 2-4 Ja '25
Past year and the coming one for business in the United States. Econ W n s 27:44-6 Ja 12 '24; Same. Nat City Bank p 1-4 Ja '24; Same. Gas Age 53:9-11 Ja 5 '24
Prosperity depends on sound industrial relations. S. A. Lewisohn. Ptr Ink 126:3-4+ Ja 17 '24
Recent business revival in the United States and its possibilities. W. F. Gephart. Econ W n s 29:292-4 F 28 '25
Recent evidences of business improvement in the United States. Econ W n s 28:729-31 N 22 '24; Same. Fed Res Bul 10:831-4 N '24
Review, by principal industries, of the more important statistics. See monthly numbers of Survey of current business
Review of business conditions for the year ended June 30, 1924. H. Hoover. Bus Transportation 3:593 D '24
Review of the first quarter of the year. charts R Econ Statis 6:63-72 Ap '24 [continued quarterly]
Review of the year 1923. charts R Econ Statis 6:1-15 Ja '24
Review of the year 1924. charts R Econ Statis 7:1-18 Ja '25
Significant business indices. Am Mach 60:25 Ja 3 '24
Stable and sound business conditions forecast in survey by National industrial conference board, inc. Comm & Fin Chr 120: 1677 Ap 4 '25
State of trade—commercial epitome. Published in weekly numbers of Commercial and financial chronicle
Survey of current banking and business developments. See monthly numbers of Bankers magazine
Survey of industry made by the National association of manufacturers shows bright outlook. Am Ind 25:5-10 My '25
Survey of 1923. J. B. Forgan. Comm & Fin Chr 118:19 Ja 5 '24
Swing of the industrial pendulum. A. S. Dewing. Bankers M 109:289-90 Ag '24
Trade leaders on business conditions. Oil Paint & Drug Rep 107:10+ Mr 26 '25
Trend of business and the underlying trend. A. W. Shaw. chart Am Ind 25:23+ O '24
Turnover of deposits a measure of business activity. C. Snyder. charts Am Bankers Assn J 16:471-3+ F '24
Twenty significant business developments. B. C. Forbes. Forbes 15:605 F 15 '25
Unbalanced condition of industry. A. T. Simonds. Iron Age 113:29 Ja 3 '24
Use of bank debits as a business index. R. A. Warren. Annalist 26:373 S 25 '25
Weekly review of financial conditions. See weekly numbers of Moody's investors service
What is the matter with business? Nothing! J. Dalton. Automotive Ind 49:929-31 N 8 '23
What 1925 has in store. L. H. Haney. Iron Age 115:31-4 Ja 1 '25
What some of the leaders say about business. Comm & Fin 13:902, 1558, 2150 My 7, Ag 20, N 5 '24
What's ahead for business in 1924? E. H. Gary. il Am Ind 24:17-20 Ja '24; Same. System 45:19-22+ Ja '24
Why I see great prosperity ahead. E. H. Gary. System 47:25-9 Ja '25
World in 1923. Nat City Bank p 6-15 Ja '24; Same abr. Econ W n s 27:78-83 Ja 19 '24
Year's economic progress. Ry R 75:849-50 N 22 '24

See also Business cycles; Business depression; Business failures; Business forecasting; Europe—Economic conditions; Index numbers (economics); Inflation (finance); Production; Summer business; Unemployment; United States—Economic conditions

BUSINESS conferences
Conferences—bunk sessions or profit breeders? J. J. Witherspoon. Ptr Ink M 11:21-2+ O '25
The G. M. vetoes conferences. A. V. Levering. il System 47:184-7+ F '25
How Pepsodent gets peace and harmony in its family. R. E. Spline. Ptr Ink 131:17-20 Ap 9 '25
King Arthur started something. D. M. Jones. Ptr Ink 127:53+ Je 26 '24
Out to lunch. J. H. Collins. Ptr Ink 127:3-4+ My 8 '24
Taking the annual conference out under the trees. il Ptr Ink M 10:104+ Ja '25
Tell him I'm in conference. il System 46:436-8 O '24

See also Sales conventions

BUSINESS correspondence. See Commercial correspondence; Sales letters

BUSINESS cycles
Analysis of bank statistics for the United States. A. A. Young. charts R Econ Statis 7:19-37, 86-104 Ja-Ap '25

BUSINESS cycles—*Continued*
Business at the cross-roads; how to choose between an inflationary boom and the more profitable safety of moderation. F: C. Mills. Annalist 25:93 Ja 12 '25
Business barometers and the business cycle. G. G. Munn. Bankers M 110:711-13+ Ap '25
Business cycle. L. D. Burlingame. diags Am Mach 62:371-2 Mr 5 '25
Business cycle and the cotton industry. L: Bader. Textile World 68:2615-17 O 31 '25
Business cycles in cause and effect. L. Ayres. Oil Paint & Drug Rep 108:29+ N 5 '25
Coal mining and the business cycle. W: L. Crum and H. B. Vanderblue. charts Harvard Business R 4:71-7 O '25
Critique of the so-called business cycle. H. G. Schnackel. Rubber Age 16:151-2 D 10 '24
Cycle of business fluctuations. H. Bilgram. Am Ind 25:9-10 Je '25
Do we harp too much on the business cycle? System 45:464-6+ Ap '24
Economic cycle, its application to buying, selling, production, investments. F. Y. Presley. 32p Harvard univ. Committee on economic research, Cambridge, Mass. '25
Economics of business cycles. A. B. Adams. 263p McGraw-Hill '25
Effects of the trade cycle in New Zealand. A. H. Tocker. Econ J 34:128-34 Mr '24
Factors conditioning marketing management. L. S. Lyons and N. W. Barnes. chart Univ J of Business 3:335-40 S '25
Finding your industry's cycle. J. H. Barber. Management & Adm 8:479-86 N '24
Forecasting the underlying cycles. J. H. Barber. Management & Adm 8:589-94; 9: 15-20 D '24-Ja '25
Interpretation of the index of general business conditions. W. L. Crum. R Econ Statis 7:sup217-35 S '25
Interpreting the weather signs of business. O. D. Young. il System 46:263-7+ S '24
Inventory valuation and the business cycle; normal stock method. H. T. Warshow. charts Harvard Business R 3:27-34 O '24
Is the business cycle running true to form? W. I. King. Annalist 23:659-60 Je 9 '24
Management problems in machine building industries. E. F. Du Brul. Am Mach 60: 717-21 My 15 '24
Manufacturing operations and the business cycle. W: L. Crum and H. B. Vanderblue. Harvard Business R 3:171-84 Ja '25
New barometer of industry. C. Snyder. Management & Adm 6:763-6 D '23
New measures of the business cycle. C. Snyder. charts Harvard Business R 3:1-7 O '24
Our position in the trade cycle. Moody's Inv Serv 17:97-104 Mr 19 '25
Our present position in the business cycle. Moody's Inv Serv 16:153-6 Ap 10 '24
Our unstable dollar and the so-called business cycle. I. Fisher. charts Am Statis Assn J 20:179-202 Je '25
Pre-war business cycle, 1907 to 1914. W: C: Schluter. 189p Longmans '23
Problems in business economics. H. B. Vanderblue. 631p Shaw '24
Railroad traffic and the business cycle. H. B. Vanderblue. il charts Ry Age 76:783-6, 885-8, 987-90 Mr 22, Ap 5, 19 '24
Relation of a commercial bank to the business cycle. W: L. Crum and H. B. Vanderblue. charts Harvard Business R 3:297-311 Ap '25
Relation of a public utility to the business cycle. H. B. Vanderblue and W: L. Crum. Harvard Business R 2:409-20; 3:8-19 Jl, O '24
Reports and recommendations of a committee of the President's conference on unemployment. Review by W. E. Hotchkiss. Taylor Soc Bul 9:86-9 Ap '24
Smoothing out the ups and downs of business; a review of business cycles and unemployment. R. C. Epstein. System 44:727-30+ D '23
Social consequences of business cycles. M. B. Hexter. 206p Houghton '25
State and municipal borrowing in relation to the business cycle. B: M. Anderson. Chase Econ Bul 5:1-18 Je 10 '25; Excerpts. Comm & Fin Chr 120:3141 Je 20 '25; Econ W n s 29:845-6 Je 13 '25; Abstract. Eng & Contr (R & S) 64:327-8 Ag 5 '25
Taming the vicious cycle. Ptr Ink 132:48 Jl 30 '25
Two views of the business cycle. C. P. Fuller. Bankers M 110:27-8 Ja '25

BUSINESS depression
Business as usual. D. Gridley. Ptr Ink 128: 33-4+ Jl 24 '24
Do presidential elections bring depression? R. Vance. Forbes 13:506-7 F 2 '24
Mental hazards that stand in the way of sales. C. B. Larrabee. Ptr Ink M 9:17-18+ Jl '24
Preparing the public for coming business readjustments. G: Woodruff. Am Bankers Assn J 17:243-4 O '24; Same cond. Comm & Fin Chr 119:118-19 sec 2 O 18 '24
Why fear the presidential year? M. L. Davey. Nation's Business 11:46+ D '23; Discussion. 12:50 Ja '24

See also Business cycles; Business failures; Panics

BUSINESS education
Business advancing as a profession. D. W. Malott. Iron Tr R 74:1564-5 Je 12 '24
Business and education. R. E. Heilman. Comm & Fin Chr 119:134-6 sec 2 O 18 '24
Business education and the ideal of practicality. C. O. Weber. Univ J of Business 3:203-6 Mr '25
College entrance credits in commercial subjects. G. L. Swiggett. 22p U.S. Bur. of educ., Washington '23
Commercial education—school opportunities and business needs. G. L. Swiggett. 10p U.S. Bur. of educ., Washington '23
Coordination of business preparation and placement; report of the third commercial education conference. G. L. Swiggett. 16p Dept. of the interior, Bur. of education, Washington, D.C. '24
Cornerstone of credit. W: M. Lewis. Credit M 27:7+ Jl '25
Elementary training for business. F: A. Wilkes, G: M. York and C. J. Terrill. 353p Ronald press '24
Junior business training. F: G. Nichols. 233p Am. book co., New York '23
Learning business in business. A. F. West. Am Ind 25:11-12 Mr '25
Modern distribution demands on education. F. R. Crawl. Ann Am Acad 115:205-11 S '24
Objectives in commercial engineering. G. L. Swiggett. U S Bur Educ Bul 16:1-66 '24
Professional business education. C. P. Biddle. Am Ind 24:19-20 My '24
Some observations on secondary commercial education. A. W. Welch. 208p Gregg '24
Teaching business subjects in the secondary school. C. T. Jones, ed. 307p Ronald press '24
Teaching business to professional men. Ptr Ink 131:178+ My 7 '25
Training for business. M. T. Copeland. Credit M 26:19+ Ja '24

See also Accounting—Study and teaching; Bookkeeping; Commercial law—Study and teaching; English language—Business English; Salesmen—Training; Secretaries, Private; Typewriting; *also* Harvard university —Graduate school of business

BUSINESS English. See English language—Business English

BUSINESS ethics
Almost 300 ratify code of ethics. Nation's Business 12:66+ S '24
Applying the Golden rule to business; code of ethics adopted by the California sanitation development league of San Francisco. Dom Eng 107:24 Je 28 '24
Be square. W: M. Forbush. 154p Scribner '24
Business management and the professions. H: S. Dennison. Ann Am Acad 119:143-7 My '25

BUSINESS ethics—*Continued*
Business must be its own doctor. Automotive Ind 50:1060-2 My 15 '24
Business principles enunciated by U.S. Chamber of commerce. Eng N 92:902-3 My 22 '24; Excerpts. Elec Ry J 63:679 Ap 26 '24; Concrete 25:41 Ag '24; Sheet Metal Worker 15:564+ Ag 15 '24; Sanitary & Heat Eng 102: 363 N 28 '24
Chinese business based on honor. T. K. Lowe. il Nation's Business 13:40+ Ag '25
Church looks at business. J: L. Cole. Nation's Business 12:58+ O '24
Code of ethics for bankers. W. R. Morehouse. Am Bankers Assn J 18:331-2 N '25
Code of ethics of the Chemical equipment association. Chem Age 31:481-2 N '23; Same. Chem & Met Eng 29:986-7 N 26 '23
Code of ethics of the Electric power club. 8p Electric power club, Cleveland '24
Code of ethics that meets daily problems of business. R. Crothers. Ptr Ink 128:155-6+ Jl 10 '24
Codes of ethics. E. L. Heermance. 525p Free press ptg. co., Burlington, Vt. '24
Development of business practices. J: Van der Vries. Brick & Clay Rec 65:906-9 D 23 '24
Good code of ethics. Sanitary & Heat Eng 103:258 Ap 17 '25
Guide for applying the code of ethics to machine tool industry. Iron Age 115:1358-9 My 7 '25; Same. Mach 31:822-3 Je '25
How many secrets should a salesman divulge about his last place? W. H. Heath. Ptr Ink 128:41-2+ Ag 7 '24
Offer of too much service may prove a boomerang. J. R. Sprague. Ptr Ink 128:110+ Ag 21 '24
Page from the book of etiquette for salesmen. B. J. Williams. Ptr Ink 129:73 D 11 '24
Principles of business conduct. H. Hoover. Comm & Fin Chr 118:2389-91 My 17 '24; Same. Nation's Business 12:7-9 Je 5 '24; Same. Paper Tr J 79:57-60 Ag 7 '24; Same cond. Iron Tr R 74:1316-17 My 15 '24; Excerpts. Am Mach 60:741-2 My 15 '24
Principles of business conduct in the face brick industry. R. D. T. Hollowell. Brick & Clay Rec 65:524-8 O 14 '24
Real estate code of ethics. H. U. Nelson. J Land & Pub Util Econ 1:270-5 Jl '25
Report of business conduct committee on stolen bonds. I B A of A 13:50-6 S 30 '24
Successful attempt to co-operate; how the building industry of New York is solving its problems. S. F. Voorhees. Am Mach 61:561-2 O 9 '24
Telling the truth in business. R. S. Kellogg. Paper 34:181 My 22 '24

See also Advertising ethics; Banking ethics; Bribery, Commercial; Competition, Unfair; Discount, Trade; Newspaper ethics; Substitution (marketing problem); Trade secrets

BUSINESS failures
Analysis of January failures. Dun's R 32:8-9 F 9 '24
Bankruptcy proceedings in federal courts, 1912 to 1923. Survey of Cur Business 30:22 F '24
Business failures by geographical distribution, 1916-1923. Survey of Cur Business 29:18 Ja '24
Business failures by principal classes of establishments since 1914; chart. Survey of Cur Business 34:25 Je '24
Business failures classified. Dun's R 32:7+ Ap 12 '24
Business failures in 1923; editorial. Comm & Fin Chr 118:129-31 Ja 12 '24
Business failures in 1924. Bradstreet's 53: 24-6 Ja 10 '25
Business failures in 1924; editorial. Comm & Fin Chr 120:502-4+ Ja 31 '25
Business failures, 1921-1924. Survey of Cur Business 34:54-5 Je '24
Business failures—manufacturing establishments: 1913-1923. Survey of Cur Business 32:57-8 My '24
Business failures, United States and Canada. See weekly numbers of Annalist, Bradstreet's and Dun's review
Business failures, United States, Canada and Newfoundland, for six months of 1925 and 1924, with assets and liabilities. Bradstreet's 53:433 Jl 4 '25
Commercial failures, 1919-1924.. Annalist 25: 39 Ja 5 '25
Commercial failures and bank suspensions in 1924. Fed Res Bul 11:91-4 F '25
Commercial failures in the United States in December and during 1923. Econ W n s 27:14 Ja 5 '24
Commercial failures in the United States in December and during 1924. Econ W n s 29:85 Ja 17 '25
Dun's report of failures in 1923. Comm & Fin Chr 118:21-2 Ja 5 '24
Failures and liabilities continue to ebb. Bradstreet's 53:641-2 O 3 '25
Failures and their causes. Bradstreet's 53:81 Ja 31 '25
Failures by branches of business—second quarter, 1924; tabulation. Dun's R 32:9 Jl 12 '24
Failures (Dun's & Bradstreet's). Published in weekly numbers of Annalist
Failures for October and ten months. Bradstreet's 52:719 N 8 '24
Failures of 1923 and their causes. Bradstreet's 52:61 Ja 26 '24
Fewer failures and lessened liabilities in 1923. Bradstreet's 52:7-8 Ja 5 '24
Insolvencies for this year. Dun's R 33:8-9 Jl 11 '25
Irregular failure showings. Bradstreet's 52:637-8 O 4 '24
Lessons that business failures teach. J. H. Tregoe. System 46:141-3+ Ag '24
Mercantile failures in September and the nine months; editorial. Comm & Fin Chr 121: 1729-30 O 10 '25
Monthly and quarterly failure record. Dun's R 33:8 O 10 '25
Number of business failures by geographical distribution since 1916; chart. Survey of Cur Business 34:23 Je '24
Some reasons why retailers fail. Ptr Ink 129:181-2+ D 11 '24
Year's insolvency record. Dun's R 32:7-10+ Ja 12 '24
Year's insolvency record. Dun's R 33:6-10 Ja 10 '25

See also Bank failures; Bankruptcy; Business depression

BUSINESS forecasting
Barometers. M. H. Wilson. Special Lib 16: 77-8 Mr '25
Becoming your own prophet. Comm & Fin 13: 1848-9 S 24 '24
Business barometers and the business cycle. G. G. Munn. Bankers M 110:711-13+ Ap '25
Business barometers used in the management of business and investment of money. R. W. Babson. 16th ed. 442p Babson Park co., Wellesley Hills, Mass. '23
Business forecasting. J. M. Gillman. 24p Univ. of Pittsburgh, School of business administration, Pittsburgh '25
Business forecasting. E. O. Merchant. Paper Tr J 80:49-52; Discussion. 52-4 Je 18 '25
Business forecasting and its relation to modern selling. R. W. Babson. Ann Am Acad 115:142-60 S '24
Charting the business seas. C. Snyder. diags Am Ind 25:13-16 Ag '24
Checking up on business forecasts. L. Alexander. chart Am Bankers Assn J 18:165-8 S '25
Determining profits in advance. G. C. Harrison. Management & Adm 8:605-10 D '24
Duration of prosperity. Moody's Inv Serv 17:91 Mr 12 '25
Executive airplane. H. Coonley. Management & Adm 7:153-4 F '24
Forecast of coming business conditions. Ind Management 70:25-32 Jl '25
Forecasting business conditions. E. B. Gowin. 50p Putnam '23

BUSINESS forecasting—*Continued*
Forecasting demand for industrial equipment. E. F. DuBrul. Mech Eng 46:539-42 S '24; Same. Iron Tr R 75:731-4 S 18 '24
Forecasting security prices. Am Statis Assn J 20:244-9 Je '25
Forecasting the curve of sales. H. R. Simonds. Iron Tr R 74:1043-5 Ap 17 '24
Forecasting trends of business. T: J. Keenan. Paper 34:1003-4 S 18 '24
Foreign trade and shipbuilding. R. Y. Sanders. Roy Statis Soc J 87:220-40; Discussion. 240-55 Mr '24
How American radiator forecasts future sales and advertising. W. Bates. Ptr Ink M 9:17-18+ O '24
How far can we rely on the business indicators? F. Parker. Comm & Fin 14:292 F 11 '25
How shall we plan for 1924? System 45:159-63+ F '24
How shall we plan for 1925? System 47:156-9+ F '25
How the Walworth company looks ahead. J. H. Barber. Administration 5:523-36, 659-68 My-Je '23; [cont. as] Management & Adm 6:29-32, 191-6, 313-18, 453-7, 581-4, 725-31 Jl-D '23
Human equation in business activities and forecasts. A. W. Douglas. Management & Adm 7:224-6 F '24
Increasing sales with crop reports and forecasts. Ptr Ink 126:33-4+ Ja 31 '24
Industrial budget methods. J. H. Barber. chart Management & Adm 8:371-6, 479-86, 589-94; 9:15-20, 129-33 O '24-F '25
Interview with Luther Burbank. B. C. Bean. System 46:156-7 Ag '24
Leaders forecast 1924 outlook. Forbes 13:454+ Ja 19 '24
Let us cast up our balance sheet. C. C. Martin. il Burroughs Clearing House 8:5-7+ Ag '24
Lookout in the foretop. T. H. Price. See weekly numbers of Commerce and finance
Monthly forecast of the industrial market. L. W. Alwyn-Schmidt. Color Tr J 13:193-5 D '23
Most reliable yardstick of business; amount of debits to individual accounts. G. A. Hope. Am Bankers Assn J 17:147-8 S '24
1924-1925—a review and forecast. Moody's Inv Serv 17:9-15 Ja 8 '25
1925 in 100 one-minute interviews. Forbes 15:535-8+ F 1 '25
Planning future business from sales trends of the past. A. V. Comings. Automotive Ind 52:937-40 My 28 '25
Plucking figures out of the air for Uncle Sam. R. A. Lewis, jr. Am Bankers Assn J 16:562-4 Mr '24
Practical results of budgeting. R. H. Allen. Management & Adm 9:528-30 Je '25; Same. Paper Tr J 81:62-3+ O 15 '25
Predetermination of profits. C. F. Yourman. Am Management R 14:244-6 Ag '25
Problem of business forecasting. W. M. Persons, W: T. Foster and A. J. Hettinger, jr., eds. 317p Houghton '24
Sales forecasting helps eliminate peaks and valleys. F. H. Dickison. Ptr Ink 131:113-14+ My 28 '25
Sense and science in looking ahead. T. H. Price. Comm & Fin 13:1943-4 O 8 '24
Statistical interpretation. J: Moody. Special Lib 16:75-7 Mr '25
Stock market as a business barometer. A. H. Temple. Comm & Fin 14:2157-8 N 4 '25
Walworth's method of regulating its sales to coming demand. W. C. Mattox. Ptr Ink 126: 3-4+ F 14 '24
What I discovered about forecasting sales. Comm & Fin 13:249-51 Ja 30 '24
What's ahead this year? T. H. Price. Comm & Fin 13:252-3 Ja 30 '24
Why steel scrap prices act as a forecaster. C. P. Fuller. Annalist 26:211-12 Ag 21 '25
Working value of the economic forecast. P. Mathewson. Management & Adm 8:181-3 Ag '24

See also Budget, Business; Production and sales, Coordination of

BUSINESS friendships
Business and friendship. R: W. Saunders. Bankers M 110:817-18 My '25
Do business friendships pay? J: Chapman. System 45:765-7+ Je '24

BUSINESS information
Government activity in Washington affecting the business man. W. M. Kiplinger. Chem Age 32:305 Jl '24
Public library and the business man. J: A. Lowe. Special Lib 14:143-6 N '23
What the public library should do for the business man. A. E. Bostwick. Special Lib 15:51 Mr '24

See also Business research; Business statistics; Information service

BUSINESS insurance. See Insurance, Business

BUSINESS letters. See Commercial correspondence; Sales letters

BUSINESS libraries
Administration of business libraries; review of a thesis by L. L. Briggs. Special Lib 16: 14-15 Ja '25
Business branch of the Providence public library. C. E. Sherman. il Lib J 49:840-1 O 1 '24
Business library as a phase of group service. A. E. Bostwick. Special Lib 15:187-91 O '24
Business library classification. R. Alexander. Special Lib 15:27-8 F '24
Commercial libraries. C: Nowell. Engineer 139:50-1 Ja 9 '25
Company library that pulls whole organization together. G: W. Gray. il Ptr Ink M 9:65-6+ S '24
Development of a business library; H. M. Byllesby & company, 1909-1925. il Pub Lib 30:193-4 Ap '25
Does a business librarian need special training? R. Haylett. Wis Lib Bul 20:102-4 My '24
Employer selects a business librarian. L. B. Krause. Special Lib 15:75-7 Ap '24
Getting value out of a business library. E. Gilbert. Office Economist (Art metal construction co., Jamestown, N.Y.) 6:3-4+ Ap '24
How retail libraries help business. E. Gilbert. Office Economist (Art metal construction co., Jamestown, N.Y.) 6:5-6+ Je '24
How the special library serves industrial concerns. Special Lib 16:271-6 O '25
Industries served by trade libraries. E. Gilbert. Office Economist (Art metal construction co., Jamestown, N.Y.) 6:5-6+ Jl '24
Market analysis and the special library. P. White. Special Lib 16:85-6 Mr '25
Notable series relating to special libraries in Office economist. Special Lib 16:12-13 Ja '25
Training an idea scout. Ptr Ink 132:41-2 Jl 23 '25
Uses of the business library. G: W. Gray. il Ptr Ink M 8:41-2+ Je '24
Value of organized information and research to the great public utility. E: Dana. Special Lib 16:258-9 O '25
Value of our library; Retail credit company. G: A. Bland. Special Lib 16:111 Ap '25
Value of the company library. A. C. Mitchell. N E L A Bul 12:244-5 Ap '25

See also Advertising agencies—Libraries; Department stores—Libraries; Engineering libraries; Financial libraries; Insurance libraries; Libraries, Special; Library service; Periodicals; Technical libraries; *also* Federal reserve bank of New York—Library; National business and financial library

BUSINESS location. See Factories—Location; Location in business; Stores (retail trade) —Location

BUSINESS managememt
Analysis of a risk. T: M. Simpson. Comm & Fin 14:2091-2 O 28 '25
Audit of process. F. A. Schmidt. il Taylor Soc Bul 10:210-19 O '25
Blame the banker, not the salesman. H. R. Wellman. Nation's Business 13:24-6 N '25
Business administration. J. O. McKinsey. 318p South-western pub. co., Cincinnati '24

BUSINESS management—*Continued*

Business management and the professions. H: S. Dennison. Ann Am Acad 119:143-7 My '25

Business organization and management. H: P. Dutton. 545p [bibliog. p. 535-8] Shaw '25

Business organization from a new viewpoint. E: B. Hyde. Ind Management 68:273-80 N '24

Buyers' whims and salesmen's ideas that wreck a business. R. W. Johnson. Sales Management 9:517+ O 17 '25

Contribution of the Association of national advertisers to better present business practices. J: Sullivan. Ann Am Acad 115:116-23 S '24

Costly economies. R. S. Durstine. System 48: 402-3 O '25

Details are highly important factors in modern business. H. Tipper. Automotive Ind 50:724-5 Mr 27 '24

Devoe & Raynolds business taken over by young salesmen. Sales Management 7:1347-8 Ag '24

Different forms of business organization. Bankers M 110:723-5 Ap '25

Dix transfer. T. Hultgren. Univ J of Business 2:406-13 S '24

Engineering the element of surprise out of business. H. C. Parmelee. Chem & Met Eng 32:621-2 Jl '25

F. W. Woolworth said: "Don't be content with one opinion." H. T. Parson. il System 45:632-3 My '24

Financing the young manufacturing business. E. M. Sims. Factory 34:584-5+ Ap '25

Find the hidden weakness in your business. A. H. Deute. Ptr Ink 132:113+ S 3 '25

Five elements in making a profit. B. A. Franklin. Paper Tr J 81:55-8 Jl 9 '25

Four plans that plugged-up daily leaks. G. J. Whipple. il System 45:52-4 Ja '24

Frenzied race to easy street. M. Droke. Forbes 13:569-70 F 16 '24

Functionalizing a business organization. W. Robinson. charts Harvard Business R 3:321-38 Ap '25

Fundamentals of business organization. W. Robinson. 230p McGraw-Hill '25

Getting buyers to work harder; why salesmen waste time. Ptr Ink 132:3-4+ S 10 '25

Good business methods. C. Young. Sheet Metal Worker 15:160-1+, 202-4+ Mr 28-Ap 11 '24

Handling the finances of a business. F: K. Rupprecht. il System 44:723-7+ D '23

How a country-town failure became national success; Bradley knitting company. R. P. Crawford. Forbes 13:623-4+ Mr 1 '24

How Commonwealth steel simplifies problems of management. C. H. Howard. il Ptr Ink M 11:35-6+ Ag '25

How does a business grow? D. Gridley. Ptr Ink 129:161-2+ N 27 '24

How Gates built a three million dollar business in thirty years. C: C. Gates. il Sales Management 7:1345-6+ Ag '24

How Sunbeam chemical company staged a comeback. E. Whitmore. Sales Management 8:943-4 Je 27 '25

How this man doubles his business every two years; A. H. Landwehr, business genius of Holland furnace co. N. M. Clark. il Forbes 16:439-42+ Jl 1 '25

How to keep a business growing. H: Ford. System 45:611-14+ My '24

How we cut overhead 80%. J: N. Willys. il System 48:263-8+ S '25

I find out how to cut expenses. T. L. Hoffman. il System 47:297-302+ Mr '25

I start in business with something more than money. S: Crowther. il System 47:729-34 Je '25

I stress methods—results naturally follow. B. A. Franklin. Factory 31:741-4+ D '23

Idea that added thousands to profits in 24 months; ironing out the peaks and valleys. W: C. Procter. il System 47:597-601+ My '25

Importance of accounting to management. A. R. Erskine. J Account 38:107-11 Ag '24; Same. Paper Tr J 79:51-2 O 2 '24

Increasing human efficiency in business. W. D. Scott. New & enl. ed. 364p Macmillan '23

John H. Patterson, pioneer in industrial welfare. S: Crowther. 364p Doubleday '23

Let us face the facts. W: A. Rockenfield. Mach 31:611-13 Ap '25

Make every good idea count, said Jacob L. Loose. B. L. Hupp. System 48:52-3 Jl '25

Management ability helps with your banker, too. W. I. Bullard. Factory 33:505-6+ O '24

Management function in business. J. G. Steele. Paper Tr J 80:53-6 Ap 30 '25

Management is life of business. C. B. Williams. Iron Tr R 75:1434-7 N 27 '24

Most important thing I ever learned about management. A. P. Sloan, jr. System 46: 137-41+ Ag '24

My test of good management. M. M. Converse. il System 45:640-1 My '24

My three essentials of management. J. Fleischmann. il System 46:25-8+ Jl '24

132 years without losing a customer; Lukens steel company. C: L. Huston. il System 47: 461-6+, 611-15+, 757-61+ Ap-Je '25

Operating ratios and costs as guides to management. U. F. von Rosen. Paper Tr J 80: 56-8 My 21 '25

Organization and methods of the Thayer manufacturing company. J. L. Palmer. Univ J of Business 3:274-304 Je '25

Organizing a business to give advertising a chance. D. M. Hubbard. Ptr Ink 132:3-4+ S 24 '25

Our directors really direct. J. M. Fly. System 48:560-2 N '25

Our financing takes care of itself; Newark electrical supply company. O. F. Rost. il System 47:161-3+ F '25

Planning for the business you are going to have. M. S. Florsheim. il System 45:30-3+ Ja '24

Play the game square—Philip D. Armour. P. J. O'Keeffe. System 45:334-5 Mr '24

Policies that have made good for over half a century; Enterprize manufacturing company. W: S. Dutton. Forbes 14:91-3 Ap 26 '24

Policy and policy-making. O. Sheldon. Harvard Business R 4:1-6 O '25

Policy that guided 118 years of steady growth. S. M. Colgate. il System 46:717-20+ D '24

Receiver's views on the second generation in business. J: P. Wilder. il Sales Management 8:301-2 F 21 '25

Responsibility of management to be courteous. A. Bradbury. Ptr Ink 126:53-4+ F 7 '24

Richest man in Canada, John R. Booth is timber chief at 98. C: L. Shaw. Forbes 14:721-2+ S 15 '24

Sales doubled when modern ideas took the place of old; Edward N. Riddle company. A. Belden. Ptr Ink 126:41-2+ Ja 17 '24

Saunders Norvell laughs at the "my business is different" idea. Sales Management 8: 468-9 Mr 21 '25

Some of the manufacturer's wastes. I. S. Paull. Nation's Business 13:70+ My '25

Stability of a business depends largely on the nature of its operating organization. J. P. Jordan. Annalist 25:50 Ja 5 '25

Stop signals in business. E. P. Hermann. Forbes 14:609-10 Ag 15 '24

Supplying financial and cost information; what should be given to department heads? G. M. Pelton. Management & Adm 7:169-72 F '24

Taking the guesswork out of business. W: R. Basset. Forbes 13:766-7+; 14:31-3; 15:27-8 Mr 29, Ap 12, O 1 '24

Technique of executive control. E. H. Schell. 130p McGraw-Hill '24

Then there's the case for management. R: F. Grant. il Nation's Business 13:42+ Mr '25

"To be successful, a man must be a profit-maker"—Firestone. B. J. Duncan. il Forbes 15:15-18+ O 1 '24

Unity in management policy. W. E. Hotchkiss. Management & Adm 8:17-18, 173-5 Jl-Ag '24; Same (pt. 2). Paper Tr J 79:55-6 S 11 '24

BUSINESS management—*Continued*
Waste elimination through executive control. W. P. Lukens. Management & Adm 9:63-6 Ja '25
What 55 years in business taught me about managing. S: Crowther. System 42:533-7+; 43:318-22+, 454-8+, 758-62+; 44:36-40+, 162-6+, 287-92+, 445-9+, 745-50+ N '22, Mr-Ap, Je-O, D '23
What the business man can learn from the banker. il System 46:42-5+ Jl '24
What's the connection between a clean desk and good management? E. Wolff. Ptr Ink 126:17-19 F 21 '24
Why Ford's second five millions were easier. Ptr Ink 130:157-8+ Mr 26 '25
Why I prefer the large organization. Sales Management 7:1589+ O '24
Why I prefer the small organization. Sales Management 7:1588+ O '24
Working plans to realize profits. G. C. Harrison. charts Management & Adm 8:361-6, 491-5, 605-10; 9:41-5, 164-8, 249-52, 461-4 O '24-Mr, My '25

See also Accounting departments; Advertising departments; Advertising managers; Branch management; Budget, Business; Business forecasting; Collecting of accounts; Committees (in management); Complaints; Courtesy; Credit departments; Employment management; Executives; Factory management; Files and filing (documents); Good will (in business); Industrial management; Insurance, Business; Inventories; Location in business; Office management; Orders; Organization in industry; Overhead expense; Production and sales, Coordination of; Sales management; Sales promotion departments; Side lines: Statistical departments; Turnover; Visitors

BUSINESS men
Britain uses her business brains; almost every line of industry represented in Parliament. P. W. Wilson. Nation's Business 12:16-17 N '24
Business man's responsibility. J: Ihlder. Nation's Business 13:52+ N '25
Business, not political talent, needed in government. E. Wadsworth. Forbes 13:445-6 Ja 19 '24
How busy business men can keep fit. E. L. Fisk. Forbes 16:805-6, 877-8; 17:12, 25 S 15-N 1 '25
Into business by way of the law. H: Wollman. Nation's Business 12:18-20 N '24
King of loafers; American business man. W: Feather. Comm & Fin 13:2115-17 O 29 '24
Why business men should help govern nation. L: A. Coolidge. Forbes 13:635-6 Mr 1 '24

See also Executives; *also* names of business men, e.g. Flint, Charles R.; Patterson, John Henry; Wanamaker, John

BUSINESS names. See Corporate names; Trade names

BUSINESS papers. See Trade journals

BUSINESS periodicals

Bibliography

Selected list of business magazines. E. Cleland. Lib J 49:731-4 S 1 '24

BUSINESS publishers international corporation
Business publishers to cover overseas trade fields. Chem & Met Eng 32:714 Ag '25

BUSINESS records
Getting the most out of business records. M. L. Carey. Paper Tr J 78:61-2+ F 7 '24

BUSINESS reports
These ideas help get an O.K. on business reports. R. C. Hay. Ptr Ink 131:77-8+ Ap 23 '25

BUSINESS research
Brown organizes business service. Special Lib 16:11 Ja '25
Bureaux for economic and business research in American universities. Z. C. Dickinson. Econ J 35:398-415 S '25
Commercial research today. J. G: Frederick. Special Lib 16:82-3 Mr '25
Finding facts between the lines of trade investigations. M. W. Sohn. Ptr Ink 127:73-4 My 15 '24
How to get effective commercial research. Ptr Ink 125:134+ N 22 '23
Line between sales promotion and sales research. Ptr Ink 127:17-19 Je 26 '24
Navigating the business ship. A. R. Burnet. Bankers M 109:567-73 O '24
Only real basis for successful sales promotion is research. J. True. Ptr Ink 128:33-4+ Jl 31 '24
Quantitative analysis plan as applied to marketing. Ptr Ink 130:85-6+ Ja 8 '25
Researching the researcher. H. R. Wellman. il Nation's Business 13:23-5 My '25; Abstract. Special Lib 16:233 Jl '25
Some principles of commodity research. F: L. Hoffman. Econ W n s 30:580-2 O 24 '25
Summaries of business research. See quarterly numbers of Harvard business review
Uncle Sam knows a thing or two about conducting surveys. Ptr Ink 131:125-6+ Je 4 '25

See also Drug trade—Research; Market surveys; Questionnaires

BUSINESS risks. See Risk

BUSINESS show. See Office appliances—Exhibitions

BUSINESS stationery
Who uses your letterheads? F. Russell. Ptr Ink 128:109-10+ S 11 '24

See also Commercial correspondence

BUSINESS statistics
Business economics and statistics. C: A. R. Wardwell. 47p La Fayette institute, inc., Phila. '24
Comparison of an individual concern with the Harvard index of general business. 24p Harvard economic service, Cambridge, Mass. '24
Elements of business statistics. R. Riegel. 549p Appleton '24
Graphic statistics in management. W: H: Smith. 360p McGraw-Hill '24
How to handle facts. C. P. Fuller. Forbes 16: 536+ Jl 15 '25
Increasing sales with the aid of the Census bureau. J. True. Ptr Ink M 8:60+ My '24
Interpreting the weather signs of business. O. D. Young. il System 46:263-7+ S '24
Manufacturing operations and the business cycle. W: L. Crum and H. B. Vanderblue. Harvard Business R 3:171-84 Ja '25
Preparing a federal reserve review of credit and business. W. R. Burgess. Am Bankers Assn J 17:33-4 Jl '24
Statistics and the business man. J: Whyte. Credit M 26:12+ Mr '24
Statistics as applied in business. B: F. Young. 639p Ronald press '25
Statistics don't always mean what they say. Ptr Ink 131:169+ My 14 '25
Ten years' experience in business statistics. H. P. Willis. Am Statis Assn J 19:206-17 Je '24
Three years' progress in current business statistics. M. B. Lane. Am Statis Assn J 19:508-15 D '24
Uncle Sam as a business doctor. S. Anderson. Ptr Ink 130:17-20 Ja 15 '25
Uses of trade group information. A. R. Burnet. charts Rubber Age 16:15-18 O 10 '24
What are the yardsticks of business? W. L. Glenzing. Ptr Ink M 10:30+ Ja '25
When the salesman says, "Conditions in my territory are rotten"; Carnation Milk plan for getting facts. M. J. Norton. Sales Management 7:1740 N '24
Why analyze the statistics of your gas company? Gas Age 55:49-50 Ja 10 '25
Why statistics? F. W. Parsons. Gas Age 54: 643-4+ N 1 '24

See also Business charts; Business research; Statistical departments

BUSINESS trusts
Common law trust in New York. T: B. Paton, jr. Am Bankers Assn J 16:798 Je '24

BUSINESS visitors. See Visitors

BUSINESS women
Here she comes—the railroad woman. A: R. Kellar. Ry R 77:513-14 O 3 '25
She found a fortune in a business the experts overlooked; Donnelly garment company. E. Whitmore. il Sales Management 6:809-10+ Ap '24
To women of the business world. E. Johnson. 255p Lippincott '23
When salesmen sell to women. W. R. Heath. Ptr Ink 130:89-90+ Mr 5 '25

BUSWELL, Leslie
Stillington, estate of Leslie Buswell, esq., Gloucester, Mass. H. Stark. il Arch Forum 42:307-12, pl 53-5 My '25

BUTANE
Adsorption of butane by silica gel. W. A. Patrick and J. S. Long. J Phys Chem 29: 336-43 Mr '25

BUTANOL. See Butyl alcohol

BUTENE
Addition of nitrogen trichloride to unsaturated hydrocarbons. G. H. Coleman and H. P. Howells. Am Chem Soc J 45:3084-9 D '23

BUTESIN picrate
Butesin picrate—a new treatment for burns. F. K. Thayer. Blast F & Steel Pl 12:463 O '24; Same. Brass W 21:44 F '25

BUTT welding, Electric. See Electric welding

BUTTE clerks' union
Retail clerks—Butte, Mont. Monthly Labor R 18:814-17 Ap '24

BUTTER
Butter and cheese markets in the West Indies. M. A. Wulfert. U S Bur For & Dom Com Trade Information Bul 369:1-15 '25
Chemistry of some butter defects. A. L. Gibson. Can Chem & Met 8:162-4 Jl '24
Economics of creamery butter consumption. E. Stewart. Monthly Labor R 21:1-6 Jl '25
Uncle Sam again gives advertising his approval; results of a survey covering the advertising of branded butter in Washington. Ptr Ink 133:81-2+ N 5 '25
World trade in butter and cheese. M. A. Wulfert. Econ W n s 30:7-9 Jl 4 '25
The year we switched our men from salary to commission—our business increased 66%. G. A. Sumner. System 48:550+ N '25

Analysis
Analysis of two old samples of butter. Can Chem & Met 9:36 F '25

BUTTER fat
Some factors concerned in the autoxidation of fats; with especial reference to butter fat. G: R. Greenbank and G: E. Holm. Ind & Eng Chem 16:598-601 Je '24
Spontaneous decomposition of butter fat. C. A. Browne. Ind & Eng Chem 17:44-7 Ja '25
Vitamin potency of cod-liver oils. A. D. Holmes. Ind & Eng Chem 17:75-8 Ja '25

Analysis
Determination of adulterants in butter fat. G: Spitzer and W. F. Epple. Ind & Eng Chem 16:828-31 Ag '24

BUTTONS
Button industry. W. U. Jones. 113p Pitman '24

Manufacture
Insignificant button. W. W. Starke. Sibley J 39:245-6 Ja '25

BUTYL alcohol
Butanol—its use in industry. C. L. Gabriel. Chemicals 23:9 My 25 '25
Separation and determination of the alkali metals using perchloric acid; normal butyl alcohol and ethyl acetate as mixed solvents in the separation and determination of potassium, sodium and lithium. G. F: Smith and J: F. Ross. Am Chem Soc J 47:1020-6 Ap '25
Tertiary-butyl alcohol. R. R. Read and F: Prisley. Am Chem Soc J 46:1512-15 Je '24

Analysis
Analysis of commercial butyl alcohol. C. H. Spiers. Soc Chem Ind J 43:251-2 Jl 25 '24

BUTYLMAGNESIUM bromide
Study of the optimum condition for the preparation of normal valeric acid from butylmagnesium bromide and carbon dioxide. H: Gilman and H. H. Parker. Am Chem Soc J 46:2816-22 D '24

BUTYRALDEHYDE
Condensation of normal butyraldehyde with methylethyl ketone. S. G. Powell. Am Chem Soc J 46:2514-17 N '24

BUTYRIC acid
Determination of acetic and butyric acids. E. Fyleman. Soc Chem Ind J 43:142-3 My 9 '24
Monomolecular films between liquids; butyric acid between water and hexane, and acetic acid between water and benzene. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:1610-13 Je '25

BUTYRIN
Properties of butyrin. L. S. Weatherby, L. McIlvaine and D: Matlin. Am Chem Soc J 47:2249-52 Ag '25

BUYING. See Purchasing

BUYING habits
Advertising that has taught consumers better buying habits; furniture industry. L. S. Arthur. Ptr Ink M 7:23-4+ D '23
Breaking down sales resistance in industrial selling; a survey of the buying habits of industry. M. Muir. Ann Am Acad 115:83-94 S '24
Buying sprees that stimulate business. Ptr Ink 128:95-6 S 11 '24
Heeding the consumer's whims. C. B. Sherman. Am Bankers Assn J 18:364+ N '25
More about who buys most goods by mail. Ptr Ink 128:69-70+ Jl 24 '24
What is behind the ebb and flow of business? A. Stote. Ptr Ink M 11:84+ O '25

See also Fashion; Saving

BUYING motives
Buying motives for industrial goods. M. T. Copeland. Harvard Business R 2:303-18 Ap '24
Consumers' buying motives. M. T. Copeland. Harvard Business R 2:139-53 Ja '24

BY-PASS roads. See Roads—By-pass roads

BYLLESBY, H. M., & company
Development of a business library. il Pub Lib 30:193-4 Ap '25
New Byllesby holdings. map Elec W 84:339-40 Ag 16 '24

BYLLESBY, Henry Marison, 1859-1924
Sketch. por Elec W 83:975 My 10 '24; Eng N 92:825 My 8 '24; Mech Eng 46:370 Je '24; Power Pl Eng 28:576-7 My 15 '24; Pub Serv Management 36:182 Je '24; Am Soc C E Pro 50:1137-9 S '24

BYLLESBY engineering and management corporation
Facts on public utility advertising budgets; abstracts. W. H. Hodge. Ptr Ink 130:69-70+ Mr 19 '25; Gas Age 55:466+ Mr 28 '25

BY-PRODUCT coke plants. See Coke plants, By-product

BY-PRODUCTS. See Waste products; *also* subdivision By-products under special subjects, e.g. Gas manufacture—By-products; Paper making—By-products

C

CABARETS
Beaux-arts institute of design; student work. il Am Arch 125:127-32 Ja 30 '24

CABINET work
Analysis of the cabinetmaker's trade. L. G. Stier. 84p Univ. of California, Berkeley '23
Economy of preheating wood electrically. J. L. Faden. il Elec W 85:669 Mr 28 '25; Same. Ind Eng 83:199 Ap '25

CABINET work—*Continued*
Outline of tentative specifications for cabinet work. Am Arch 126:sup12+ O 22 '24
Practical cabinetmaking. H: G. Phillips. 208p Dutton '24

CABLE companies. See Telegraph, Submarine

CABLE joints. See Electric cables—Joints

CABLE laying and supply ships
Build rare but useful vessel for sea work. il diags plan Marine R 54:143-7 Ap '24
Cable-laying and repairing steamer Edouard Suenson. diags Engineering 118:196-7, 262, 269-70, pl 18 Ag 8, 22 '24

CABLE railroads
Replacing cable on the Mount Lowe incline. il Elec Ry J 64:914 N 29 '24

CABLES
Chart for determining the strength of used elevator cables. C. W. Willetts. chart Power 58:762-4 N 13 '23
Étude sur les câbles et spécialement sur les câbles de ponts suspendus. G. Pigeaud. Génie Civil 84:345-51, 374-8, 399-402, 421-3 Ap 12-My 3 '24
Loading of elevator cables and bearings. C: A. Armstrong. diags Power 61:371-3 Mr 10 '25; Discussion. H. B. Cook. 61:504-5 Mr 31 '25
Methods of securing elevator cables in clamps or sockets. W. Hilleary. il Power 59:458-9 Mr 18 '24
Renewing the control cable on a hydraulic elevator. S. G. Rogers. diag Power 61:426 Mr 17 '25

See also Bridges, Suspension; Cableways; Chains; Electric cables; Rope; Telephone cables; Wire; Wire rope

Manufacture

Machine for compacting bridge cables. C: Carswell. il Eng N 93:598-9 O 9 '24
Making cables for Delaware river bridge. W. Voigtlander. il Eng N 93:850-1 N 20 '24

CABLES, Electric. See Electric cables

CABLES, Submarine
Cable-laying under difficulties. il Elec R (Lond) 94:172 F 1 '24
Installing cable across Hudson river. F. A. Westbrook. il Elec W 84:355-7 Ag 23 '24
Loaded submarine telegraph cable. O. E. Buckley. il Am Inst E E J 44:821-9 Ag '25; Discussion. 44:1248-9 N '25
Morwell power scheme, Australia; Siemens E.H.P. cable system. il Elec R (Lond) 94: 44 Ja 11 '24
New Anglo-Dutch telephone cable. il Electrician 93:256-7 S 5 '24; Elec R (Lond) 95:384-5 S 12 '24
Oceanic cable transmission studied in a laboratory. Elec W 85:1255 Je 13 '25; Discussion. L. E. Dunham. 86:269 Ag 8 '25
Protecting cover for shallow-water cables. il Sci Am 130:333-4 My '24
Submarine conduit line. G. H. McKelway. Elec W 86:752-3 O 10 '25

See also Cable laying and supply ships; Telegraph, Submarine

CABLEWAYS
Aerial rope transport. T. E. Dodds. bibliog il diags Cassier's Ind Management 12:58-66 Ja '25
Aerial ropeway operation; electrical features. H. E. Hudson. il diags Electrician 93:718-19 D 26 '24
Aerial ropeways. J. J. White. Cassier's Ind Management 11:193-5 Ap 3 '24
Aerial tram takes rock over steep hill to dump. F. H. Kneeland. il Coal Age 27:249-50 F 12 '25
Aërial tramway removes ashes from Windsor power station. T. Thorsten. il diags Power 61:364-7 Mr 10 '25
Aerial tramway solves rock disposal problem. A. F. Brosky. il diags Coal Age 26:363-6 S 11 '24
Artex portable ropeway. il Cassier's Ind Management 11:325-6 Je '24
Automatic disposal of boiler-house ash; Blackburn Meadows, Sheffield, aerial ropeway. il Elec R (Lond) 97:354-6 Ag 28 '25
Cable ferry car of safe design for river crossing. il diags Eng N 94:903 My 28 '25
Cableways handle excavation and fill on Wisconsin dam. il map Eng N 93:301-2 Ag 21 '24
Caracoles tin co.'s aerial tramway. Eng & Min J 120:218 Ag 8 '25; Same. Eng & Contr (G C) 64:449-50 Ag 19 '25
Einzelheiten der elektrohängebahnen. P. Stephan. diags Zeit Ver Deutsch Ing 68: 606-9 Je 7 '24
Exhibition passenger conveyors. diags Cassier's Ind Management 11:165-6 Mr 20 '24
Handling materials by cable conveyor. M: W. Potts. il diags plans Ind Management 68: 170-7 S '24
Highest aerial tramway. J Fr Inst 200:333-4 S '25
Overhead-cableway method of logging. S. Miller. il diags Mech Eng 47:527-34 Jl '25
Les porteurs aériens à câbles; calcul des sections des câbles porteurs et tracteurs. F. Cretin and J. Seigle. Génie Civil 83:510-14, 534-6 N 24-D 1 '23
Ropeway connecting colliery with locomotive coaling station. Ind Management (Lond) 10: 255 N 1 '23
Ropeway for coaling a London hotel. G: F: Zimmer. il plan Cassier's Ind Management 11:243-5+ My 1 '24
Ropeway for explosives. il (supp) diags plans Engineer 138:102-4 Jl 25 '24
Ropeways and suspension railways. H. Blyth. il Chem Age (Lond) 13:214-16 Ag 29 '25
Steep ropeways in South Wales. il (supp) diags Engineer 139:514-16, 518 My 8 '25
Superior company developing plant. P. Gooding. il diag plans Concrete (cement mill sec) 26:1-4 Ja '25
Le traînage par câbles dans les mines. Génie Civil 87:359 O 24 '25
Transporteurs à cables; section minimum des câbles porteurs; règlement italien sur les funiculaires à voyageurs. F. Crestin. Génie Civil 87:225-7 S 12 '25
Up-to-date jig-back ropeways. G: F: Zimmer. il diags Cassier's Ind Management 11:475-8 N '24
Wasting strip pit spoil by means of a cableway. F. A. Kneeland. il Coal Age 27:3-5 Ja 1 '25

See also Cable railroads; Conveying machinery

Specifications

Outline of tentative specifications for endless cable railway system. Am Arch 127:sup22 F 11 '25

CABOOSE cars. See Cars, Caboose

CACAO
Distribution of theobromine during the fermentation of cacao. A. W. Knapp and R. V. Wadsworth. Soc Chem Ind J 43:124-6 Ap 25 '24
Fermentation of cacao. A. W. Knapp. Soc Chem Ind J (Chem & Ind) 43:402-4, 431-4 Ap 18-25 '24
Non-volatile acids of cacao seed pulp and cacao sweatings. F: Hardy. Soc Chem Ind J 44:305-6 Je 19 '25
Observations on the higher fatty acids. G. T. Morgan and A. R. Bowen. Soc Chem Ind J 43:346-8 D 5 '24

CACODYL
Some cacodyl derivatives. F. A. Lee, C. Thing and W: M. Dehn. Am Chem Soc J 45:2996-8 D '23

CADDO central oil and refining corporation
Annual report for the year 1923. Comm & Fin Chr 118:1428 Mr 22 '24
Annual report, year ended Dec. 31, 1924. Comm & Fin Chr 120:2677-8 My 23 '25

CADILLAC motor car company
Foundries. Foundry 53:593-7, 690-3, 721-4+ Ag 1, S 1-15 '25
President of Cadillac shows how to handle complaints. Ptr Ink 130:133-4+ F 26 '25

CADINENE
Chemistry of cadinene. G: G. Henderson and A. Robertson. Chem Soc J 125:1992-6 O '24

CADMIUM
Activities of zinc, cadmium, tin, lead and bismuth in their binary liquid mixtures. N. W. Taylor. diags Am Chem Soc J 45:2865-90 D '23
Cadmium in the electrical industry. N. F. Budgen. Electrician 94:271+ Mr 6 '25
Cadmium: its metallurgy, properties and uses. N. F: Budgen. 239p C. Griffin and co., ltd., London '24
Cadmium sulphide and the estimation of cadmium. A. C: Egerton and F. V: Raleigh. Chem Soc J 123:3019-24 N '23
Determination of cadmium in spelter and zinc ores. C. E. Barrs. Soc Chem Ind J 43:77-8 Mr 28 '24
Isotopes of cadmium, tellurium and bismuth. F. W. Aston. Soc Chem Ind J (Chem & Ind) 43:1195-6 N 28 '24
Marketing of cadmium. F. E. Wormser. Eng & Min J 118:611-12 O 18 '24
Production and commercial uses of cadmium. N. F. Budgen. Chem Age (Lond) 12:sup 17-19 Mr 7 '25
Vapour pressure of cadmium and its alloys with zinc. A. C: Egerton and F. V: Raleigh. Chem Soc J 123:3024-32 N '23

CADMIUM alloys
Cadmium amalgams: properties, preparation and uses. N. F. Budgen. diag Chem Age (Lond) 11:sup42-3 D 6 '24
Mechanical properties of aluminium-zinc alloys containing cadmium. N. F. Budgen. diags Soc Chem Ind J 43:273-6 Ag 15 '24
Solders containing cadmium; their properties, preparation and uses. N. F. Budgen. Metal Ind 23:104-6 Mr '25
Ternary alloy system aluminium-cadmium-zinc. N. F: Budgen. il diags Chem Soc J 125: 1642-60 Ag '24
Vapour pressure of cadmium and its alloys with zinc. A. C: Egerton and F. V: Raleigh. Chem Soc J 123:3024-32 N '23

CADMIUM chloride
Equilibrium in the systems: zinc chloride-pyridine; and cadmium chloride-pyridine. R. B. Mason and J. H. Mathews. J Phys Chem 29:1178-83 S '25
Third law of thermodynamics and calculation of entropies. T. J. Webb. J Phys Chem 29: 816-33 Jl '25

CADMIUM iodide
Third law of thermodynamics and calculation of entropies. T. J. Webb. J Phys Chem 29:816-33 Jl '25

CADMIUM sulfide
Cadmium sulphide and the estimation of cadmium. A. C: Egerton and F. V: Raleigh. Chem Soc J 123:3019-24 N '23

CAESIUM. See Cesium

CAFETERIAS. See Lunchrooms and cafeterias, Employees'

CAHOKIA electric station. See Electric plants (central stations)—St Louis, Missouri

CAILLAUX, Joseph
Caillaux: a Daniel come to judgment. Comm & Fin 14:761-2 Ap 22 '25

CAIRO, Egypt
Architecture
Spanish and Cairene houses. M. Stapley. il Arch Rec 58:165-79 Ag '25

CAIRO, Illinois
Engineering in the small city. Eng N 94:1066-8 Je 25 '25

CAISSON disease
Helium air for submarine divers. il Sci Am 133:52 Jl '25
Helium-oxygen mixture as a mitigation of caisson disease. R. R. Sayers, W. P. Yant and J. H. Hildebrand. J Fr Inst 199:560-1 Ap '25
Helium-oxygen mixtures for compressed air work. R. R. Sayers and W. P. Yant. Eng N 95:586 O 8 '25
Safety in building construction; caisson excavation under air pressure for building foundations. W. E. Welch. il Safety Eng 47:26-31 Ja '24

CAISSONS
Anchorages of the bridge over the Delaware river between Philadelphia and Camden. M. B. Case. il J Fr Inst 198:313-31 S '24
China Basin terminal; pre-cast concrete caissons connected by curved curtain walls from combined sea wall and wharf. C: W. Geiger. il Pub Works 55:26-8 Ja '24
Concrete for foundations and water-front work. M. M. Upson. il Am Concrete Inst Pro 20:135-44 '24
Constructing reinforced concrete foundations of Delaware river anchorages. C: Carswell. il diags plans Concrete 24:103-10 Mr '24
Dry dock at Congella, Durban. il diags map Engineering 119:438-42, 452, pl 29 Ap 10 '25
Foundations for bridges in Pueblo flood control project. il diags map Eng N 93:903-5 D 4 '24
Large pier caissons built, launched on their sides. il Eng N 93:441 S 11 '24
Pneumatic caissons in dam construction. Eng & Contr (W W) 62:1291-2 D 10 '24
Sinking caisson for Ohio river dam. Eng & Contr (W W) 63:750 Ap 10 '25
Sinking pier caissons for four Missouri river bridges. L. J. Sverdrup. il charts Eng N 93: 628-30 O 16 '24
Sinking pneumatic and open caisson foundations for Philadelphia-Camden bridge. C: Carswell. il diags Eng N 94:920-6 Je 4 '25
Slim pneumatic caissons penetrate stone-filled crib. C. S. Rindsfoos. diag Eng N 92:936 My 29 '24
Small open caissons used in water-bearing material. il plan Eng N 93:826-7 N 20 '24
Unusual construction on the dry dock at Havre. diags plans Eng & Contr (Ry) 62: 1337-42 D 17 '24

See also Bridges—Foundations and piers; Foundations

CAKE
Manufacture
Cost system that helps the production executive; Strietmann biscuit company. O. C. F. Lippert. il Factory 34:278-80+ F '25

CALAMINTHA umbrosa, Benth.
Travancore essential oils; oil from the leaves of *calamintha umbrosa,* Benth. K. L. Moudgill. Soc Chem Ind J 43:163-4 My 23 '24

CALCINED phosphate. See Phosphates

CALCITE
Density of rock salt and calcite. O. K. DeFoe and A. H. Compton. Phys R 25:618-20 My '25
Determination of the angle between the cleavage faces of calcite by use of X-rays. H: N: Beets. Phys R 25:621-4 My '25
Grating space of calcite and rock salt. A. H. Compton, H. N. Beets and O. K. DeFoe. bibliog Phys R 25:625-9 My '25
Index of refraction of calcite for X-rays. C. C. Hatley. diags Phys R 24:486-94 N '24
Luminescence in the Ingleside calcites affected by acids. W: P. Headden. Am J Sci 5th ser 8:509-17 D '24
Study of crystal structure and its applications. W. P. Davey. Gen Elec R 28:346-8 My '25
Thermodynamic properties of calcite and aragonite. H. L. J. Bäckström. diag Am Chem Soc J 47:2432-42 O '25

CALCIUM
Calcium and tuberculosis; a thesis in hygiene comprehending the influence of an inspired dust on a specific infection of the lungs. M. S. Iszard. J Ind Hygiene 7:505-30 [bibliog p. 529-30] N '25
Does nicotine combine with calcium ions? R. M. Chapin. Am Chem Soc J 47:892-4 Mr '25
Electrolytic potential of calcium. M. Tamele. diag J Phys Chem 28:502-5 My '24

CALCIUM—*Continued*
Hydrogenation of ethylene in the presence of metallic calcium. R. N. Pease and L. Stewart. Am Chem Soc J 47:2763-6 N '25
Marketing metallic calcium. C: Hardy. Eng & Min J 118:56 Jl 12 '24

CALCIUM acetate
Chemical and material markets in 1923. Chem & Met Eng 30:114 Ja 21 '24
Decline in surplus stocks of acetate of lime, 1924. Chem & Met Eng 32:136 Ja 19 '25
Distillation of acetate of lime. E. G. R. Ardagh and others. diag Ind & Eng Chem 16: 1133-9 N '24

CALCIUM alloys
Production of copper-calcium alloys. F: O. Bensel. Metal Ind 23:143 Ap '25

CALCIUM aluminum chloride
Reactions in phosgene solution; formation of chloraluminates. A. F. O. Germann and K. Gagos. diags J Phys Chem 28:965-72 S '24

CALCIUM arsenate
Arsenic, calcium arsenate and the boll-weevil. diags Chem Age 31:547-8 D '23
Basic arsenate of calcium. H. V. Tartar, L. Wood and E. Hiner. Am Chem Soc J 46:809-14 Ap '24
Calcium arsenate made with chlorine as the oxidizing agent. M. N. Dvornikoff and P. N. Dvornikoff. Chem & Met Eng 29:1058-9 D 10 '23
Calcium arsenate situation discussed by producers, makers and U.S. officials. Oil Paint & Drug Rep 104:19+ D 10 '23
Consumption of calcium arsenate doubled last season. Chem & Met Eng 29:1114-15 D 17 '23
Determination of free calcium hydroxide in commercial calcium arsenate. C. M. Smith and S. B. Hendricks. Ind & Eng Chem 16: 950-1 S '24
Electrolytic calcium arsenate. S. J. Lloyd and A. M. Kennedy. plan Chem & Met Eng 32:624-6 Jl '25
Influence of mercury and other impurities on the rate of oxidation of white arsenic by nitric acid. C. M. Smith and G. E. Miller. Ind & Eng Chem 16:1168-71 N '24
Lamb process of making calcium arsenate. Eng & Min J 118:338 Ag 30 '24
Large deposits of calcite in the South. Min Cong J 10:484 O '24
Large surplus production of calcium arsenate, 1924. Chem & Met Eng 32:132-3 Ja 19 '25
Making calcium arsenate commercially. J. K. Haywood and C. M. Smith. Chem & Met Eng 29:1014 D 3 '23
Method for producing calcium arsenate. Chem Age 32:101-2 F '24
Move for cheaper production of calcium arsenate. Manuf Rec 85:75 Ja 31 '24
Phases of the arsenic, calcium arsenate and cotton situation. Can Chem & Met 8:221-2 S '24
Prospects for cheapening calcium arsenate for boll weevil poison. C. A. Whittle. Manuf Rec 85:91 Mr 27 '24
Recommended specification for quicklime and hydrated lime for use in the manufacture of calcium arsenate. U S Bur Stand Circ 203: 1-4 '25
Revolutionary calcium arsenate process denied by government official. Chem & Met Eng 30: 444 Mr 17 '24
Sales of calcium arsenate increase 75 per cent. Chem & Met Eng 30:448 Mr 17 '24
Some observations on insecticide manufacture. R. N. Chipman. Chem Age 32:487-8 D '24; Same abr. Soc Chem Ind J (Chem & Ind) 44:421-2 Ap 24 '25
Stabilizing calcium arsenate by loans through Federal reserve banks. C. A. Whittle. Manuf Rec 87:72 Ja 22 '25
To relieve the calcium arsenate industry. C. A. Whittle. Manuf Rec 86:81 N 13 '24
Trade abuses hamper the insecticide industry. F. Hemingway. Chem & Met Eng 30:89 Ja 21 '24

CALCIUM borate. See Colemanite

CALCIUM carbide
Copper smelting with calcium carbide. Chem Age (Lond) 11:sup35 N 1 '24
Mechanism and thermochemistry of the reaction between calcium carbide and nitrogen. H. J. Krase and J. Y. Yee. Am Chem Soc J 46:1358-66 Je '24
Method for the determination of calcium carbide. J. Y. Yee and H. J. Krase. diag Am Chem Soc J 46:1389-93 Je '24
Review of calcium carbide problems. C. Coulson-Smith. Chem Age (Lond) 12:272-3 Mr 21 '25
Utilizing carbide residue. J. J. Murphy. Chem & Met Eng 32:800 O '25

CALCIUM carbonate
Calcium carbonate hexahydrate. J: E. Mackenzie. Chem Soc J 123:2409-17 O '23
Heat of dissociation of calcium carbonate and the entropy of carbon dioxide. H. L. J. Bäckström. Am Chem Soc J 47:2443-9 O '25
Hydrates of calcium carbonate. J: Hume. Chem Soc J 127:1036-9 My '25
Vaterite and μ-calcium carbonate. R. E. Gibson, R. W. G. Wyckoff and H. E. Merwin. il Am J Sci 5th ser 10:325-33 O '25
Volumetric estimation of total carbonic acid in dilute solutions of calcium hydrogen carbonate or in hard tap-waters. E: M. Crowther and W. S. Martin. Chem Soc J 125: 1937-9 S '24

See also Aragonite; Calcite; Dolomite; Limestone

CALCIUM chloride
Accelerators for concrete; lowering the freezing point in cold weather work. Concrete 24:33-4 Ja '24
Action of calcium chloride brines on galvanized coatings. A. C. White. il Ind & Eng Chem 17:503-5 My '25; Abstract. Refrig Eng 12:10-11 Jl '25
Activity coefficients and transference numbers of the alkaline earth chlorides. W. W. Lucasse. diags Am Chem Soc J 47:743-54 Mr '25
Calcium chloride as an admixture in concrete. D. A. Abrams. Am Soc T M Pro 24 pt 2: 781-834 [bibliog. p. 830-4] '24; Abstract. Concrete 26:99-101 Mr '25; Excerpt (Conclusions). Eng N 93:66-7 Jl 10 '24; Same. Am Arch 127:521 Je 3 '25; Discussion. Am Soc T M Pro 24 pt 2:835-40 '24
Calcium-chloride breathers for transformers. diag Engineering 118:802 D 12 '24
Calcium chloride for binding coal dust. Coal Age 27:550 Ap 9 '25
Calcium chloride road treatment. Can Eng 46: 353 Mr 18 '24
Chemical treatment of refrigeration brines to prevent corrosion. E. P. Poste. Ind & Eng Chem 17:131-3 F '25
Curing concrete with calcium chloride. C. L. McKesson. Pub Roads 6:23 Mr '25; Same. Concrete 27:28 Jl '25
Cutting down curing period for concrete roads. H. F. Clemmer. il Eng & Contr (R & S) 61: 283-90 F 6 '24; Same. Concrete 24:148-51 Ap '24; Same abr. Eng N 92:577-80 Ap 3 '24; Same cond. Can Eng 46:455-7 Ap 22 '24; Abstract. Pub Works 55:125-6 Ap '24
Dust laying on surfaced roads in California thru use of hygroscopic salts. H. S. Comly. Eng N 94:398-400 Mr 5 '25; Same cond. Pub Works 56:84-5 Mr '25
Effect of calcium chloride on acid-sugar-pectin gels. E. G. Halliday and G. R. Bailey. Ind & Eng Chem 16:595-7 Je '24
Elimination of dust on gravel roads. B. C. Tiney. Can Eng 48:211-12 F 10 '25; Same. Munic & Co Eng 68:32-5 Ja '25; Same. Eng & Contr (R & S) 63:249-53 F 4 '25
Handling salt solutions. Chem & Met Eng 31:68-9 Jl 14 '24
Investigation in the use of calcium chloride as a curing agent and accelerator of concrete. H. F. Clemmer and F. Burggraf. il Am Soc T M Pro 23 pt 2:296-314; Discussion. 315-28 '23
Non-caking calcium chloride, patent. Chem & Met Eng 32:390 Mr '25
Use of calcium chloride in concrete construction. Chem Rec Age 23:8 My 11 '25

CALCIUM citrate
Italian monopoly unsuccessful in marketing citrate of lime. Chem & Met Eng 29:988 N 26 '23

CALCIUM cyanamide
Chemical changes occurring in calcium cyanamide acid phosphate mixtures. K. D. Jacob and J. M. Braham. bibliog Ind & Eng Chem 17:64-8 Ja '25
La cyanamide calcique granulée. P. Dutoit. Chimie & Ind 11:223-8 F '24
Decomposition of calcium cyanamide on storage. K. D. Jacob, H. J. Krase, and J. M. Braham. bibliog Ind & Eng Chem 16:684-8 Jl '24
Preparation of guanidinium salts from calcium cyanamide. J. S. Blair and J. M. Braham. diags Ind & Eng Chem 16:848-52 Ag '24
L'utilisation du courant électrique dans les industries du carbure de calcium et de la cyanamide. Génie Civil 87:314-15 O 10 '25

CALCIUM fluoride. See Fluorspar

CALCIUM hydride
Band of unusual structure probably due to a highly unstable calcium hydride molecule. R. S. Mulliken. il Phys R 25:509-22 Ap '25

CALCIUM hydroxide
Determination of free calcium hydroxide in commercial calcium arsenate. C. M. Smith and S. B. Hendricks. Ind & Eng Chem 16: 950-1 S '24
Effect of long contact of calfskin with saturated limewater. J. A. Wilson and G. Daub. il Ind & Eng Chem 16:602-3 Je '24
Physico-chemical studies on proteins; alkali binding—a comparison of the electrometric titration of proteins and of phosphoric acid with sodium and calcium hydroxides. W. F. Hoffman and R. A. Gortner. J Phys Chem 29:769-81 Jl '25

CALCIUM hypochlorite
Bleaching of trade sulphate pulps and cotton with calcium hypochlorite solutions. A. Forster and S. A. Pearman. Soc Chem Ind J 44:233-41 My 15 '25
Calcium hypochlorite. T: H. Norton. Chemicals 24:9 N 9 '25
Interference of ammonia with the hypochlorite reaction for aniline. E. S. West. Ind & Eng Chem 16:1270-1 D '24
Lime hypochlorite lowers psychoda flies at sewage-works. M. M. Cohn. il Eng N 94: 684-5 Ap 23 '25
New methods of producing hypochlorites. diag Chem & Met Eng 30:240-1 F 11 '24
See also Bleaching powder

CALCIUM magnesium silicate. See Diopside

CALCIUM nitrate
Crystallization of heavy liquors. N. Titlestad. diag Chem & Met Eng 30:674 Ap 28 '24

CALCIUM phosgeno-aluminate
Calcium phosgeno-aluminate: a physico-chemical study. A. F. O. Germann and C. R. Timpany. J Phys Chem 29:1423-31 N '25

CALCIUM phosphate
Accumulateur en béton armé pour le stockage et le chargement du phosphate de chaux, à Kourigha (Maroc). F. Willm. il diags map Génie Civil 86:77-80 Ja 24 '25

CALCIUM polysulfide process. See Paper making —Calcium polysulfide process

CALCIUM sulfate
Calcium sulfate as a paper filler. Chemicals 24:17 S 28 '25
Calcium sulphate cement. C. L. Haddon and M. A. W. Brown. bibliog Soc Chem Ind J 43:11-16 Ja 18 '24
Calcium-sulphate retarders for Portland cement. E. E. Berger. U S Bur Mines Rep of Invest 2705:1-20 [bibliog. p. 20] S '25
Effect of calcium sulfate on the growth and fermentation of yeast. O. W. Richards. Am Chem Soc J 47:1671-6 Je '25
Influence of calcium sulphate on the promotion of stone decay. A. P. Laurie. Gas J (Lond) 168:514 N 19 '24
Oxidation of ceramic wares during firing; the behavior of calcium compounds in clays. F: G. Jackson. Am Cer Soc J 7:427-9 Je '24
Stone decay and the preservation of buildings. A. P. Laurie. il Soc Chem Ind J 44:86-92 F 27 '25
System of boiler water treatment based on chemical equilibrium. R. E. Hall. diag Ind & Eng Chem 17:283-90 Mr '25
Turning calcium sulphate waste into valuable products; fireproof tile and stucco. G. L. Montgomery. il Chem & Met Eng 32: 547-51 Je '25
See also Anhydrite; Gypsum; Plaster of Paris

CALCIUM sulfide
Die einwirkung des sulfidgehaltes auf die eigenschaften von hochofenschlacken und hüttenzementen. R: Grün. Stahl & Eisen 45:344-6, pl 10 Mr 5 '25
Manufacture of calcium sulphide; patent. Chem Age 32:243 My '24

CALCIUM thiocyanate
Mercerizing cotton with aid of calcium thiocyanate. E. A. Fourneaux. Color Tr J 14:129-30 Ap '24

CALCULATING
See Charts (calculating); Estimates; Ready reckoners; *also* subdivision Tables, calculations, etc. under special subjects, e.g. Electric engineering—Tables, calculations, etc.; Steam—Tables, calculations, etc.

CALCULATING machines
Elliott-Fisher machine operation. 2v Elliott-Fisher co., New York '23
Monroe 12-place automatic machine. il Eng & Contr (Equip R) 63:945 Ap 29 '25
See also Bookkeeping machines; Counting machines and devices; Integrators; Payroll machines; Slide rule; Tabulating machines

Manufacture
Every machine piece given hardness test. L. S. Love. il Iron Age 113:854-6 Mr 20 '24

CALCULUS
Analytic geometry and calculus. B. H. Crenshaw and C. D. Killebrew. 222p Blakiston '25
Calculus for engineers. E. S. Andrews and H. B. Heywood. 2d ed. rev. 280p Van Nostrand '24
Calculus of observations. E. T. Whittaker and G. Robinson. 395p Van Nostrand '24
Calculus of variations. G. A. Bliss. 189p [bibliog. p. 180-1] Open court pub. co., Chicago '25
Commonsense of the calculus. G. W. Brewster. 62p Oxford '23
Differential and integral calculus. A. Cohen. 566p Heath '25
Differential and integral calculus. C. E. Love. rev. ed. 367p Macmillan '25
Elementary calculus. M. B. Porter. 304p Century co. '25
Essentials of applied calculus. R. G. Thomas. Rev. ed. 408p Van Nostrand '24
Introduction to the calculus. W: R. Longley and W. A. Wilson. 452p Ginn '24
Practical calculus for home study. C. I. Palmer. 443p McGraw-Hill '24
Value of calculus to the engineer. R. Fleming. Can Eng 46:587-8 Je 3 '24
Vorlesungen über differenzenrechnung. N. E. Nørlund. 551p J. Springer, Berlin '24
See also Harmonic analysis

CALCUTTA, India
See also Electric plants (central stations) —Calcutta, India

Harbor
Extension of the port of Calcutta. il diags map Engineering 117:37-40, pl 2 Ja 11 '24

CALDECOTT, William Arthur, 1869-
Metallurgists of note. por Eng & Min J 119: 44 Ja 10 '25

CALENDAR
All months should be of equal length. Eng & Contr (W W) 61:72-3 Ja 9 '24
Amazingly accurate calendar system of the Maya Indians. J. C. Bardin. diags Sci Am 133:312-13 N '25
Calendar simplification. S. C. McLeod. Management & Adm 6:773-4 D '23
More about calendar simplification. Eng & Contr (Bldgs) 62:886-8 O 22 '24
Suggestions regarding metric measures and a new calendar. J. E. A. Moore. Eng & Contr (Bldgs) 62:1147 N 26 '24
Why not a common-sense calendar? E: Prizer. Nation's Business 12:25-6 Je 5 '24

CALENDARS
Getting more out of the calendar. J: T. Bartlett. Ptd Salesmanship 45:239-42 My '25
Making calendars pay. Sheet Metal Worker 15:860+ D 5 '24

CALENDERS
Aiding the finisher in the textile industry; heating of calenders by gas instead of steam. J: T. Travis. il Gas Age 54:271-2 Ag 23 '24; Same. Am Dyestuff Rep 13:628-9+ S 22 '24
Hardness of paper rolls in calenders. Paper 34:563-4 Jl 17 '24
Schreiner calendering. A. C. Freeman, jr. Textile World 65:3629+ My 31 '24

CALFSKIN
Applied research pays dividends in leather manufacture. A. G. Wikoff. il Chem & Met Eng 30:896-901 Je 9 '24
Effect of long contact of calfskin with saturated limewater. J. A. Wilson and G. Daub. il Ind & Eng Chem 16:602-3 Je '24
Variation of strength and stretch over the area of calf leather. J: A. Wilson. Ind & Eng Chem 17:829-30 Ag '25

CALICO printing
Alizarin red discharge on vat indigo; abstracts. R. Haller. Soc Dyers & Col J 40:60 F '24; Am Dyestuff Rep 13:738-9 N 3 '24
Browns for cotton printing. J. Steelman. Textile Col 47:235 Ap '25
Calico printing progress. Color Tr J 14:131-3 Ap '24
Composition of some rapid fast printing colours (Griesheim-Elektron). F. M. Rowe, F. R. Stafford and S. G. Corbishley. Soc Dyers & Col J 40:228-30; Discussion. 230-1 Jl '24
Corrosion of copper printing rollers by alkaline printing colours. K. Reinking. Soc Dyers & Col J 40:22 Ja '24
Fabric printing; special points in converting equipment to the electric drive. B. C. Johnson. il Electrician 92:258-9 F 29 '24
Historical survey of dyeing and calico printing. J. R. Hannay. Soc Dyers & Col J 40: 317-23 O '24
Hydron colors for calico printing. Textile Col 47:224-5 Ap '25
Metamorphosis of a cotton rope and how it led to a new method of calico printing. W. Warr. diag Soc Dyers & Col J 39:361-2 D '23; Same. Textile World 65:493+ Ja 26 '24
Printing of cotton fabrics and related processes. A. E. Hirst. Am Dyestuff Rep 14: 151-4; Discussion. 154-5 Mr 9 '25
Printing textile fabrics with trail effects; patent. diag Color Tr J 14:69 F '24
Soluble tetrabromoindigo (indigosol O4B) and its application. C: E. Mullin. Textile Col 47: 88-9 F '25
Some points on singeing cotton fabrics. W. J. Chester. Textile Col 47:34 Ja '25
Surveys of recent progress in the dyeing, printing and allied industries. J. R. Hannay. Soc Dyers & Col J 41:216-18 Je '25
Use of katanol in cotton goods printing. R: Fischer. Am Dyestuff Rep 13:423-7 Je 30 '24
Variable-speed drives for calico printing machines. il Elec R (Lond) 94:221-3 F 8 '24
See also Chintz

CALIFORNIA
See also Architecture—California; Architecture, Domestic—California; Death Valley, California; Electric plants (central stations)—California; Electric railroads—California; Electricity supply—California; Engineering—California; Forests and forestry—California; Geology—California; Hydroelectric plants—California; Irrigation—California; Motor bus lines—California; Oil shales—California; Roads—California; Taxation—California; Water power—California; Water supply—California

Altitudes
Spirit leveling in California, 1896-1923. C. H. Birdseye. il maps U S Geol S Bul 766: 1-748, pl 1-2 '25

Capitol
Problem of the pediment. M. Price. il Arch Forum 43:1-6 Jl '25

Economic conditions
Boom in California. Economist 98:287-9 F 16 '24
Facts vs. fiction about business in Southern California. J. F. Sartori. Bankers M 110: 124-8 Ja '25

Industries and resources
See also Clay industries—California; Copper mines and mining—California; Cotton—California; Electric utilities—California; Gasoline industry—California; Gold mines and mining—California; Mineral industries—California; Mines and mineral resources—California; Mining industry and finance—California; Petroleum—California; Petroleum industry and trade—California; Silver mines and mining—California; Steel industry and trade—Pacific coast; Tin mines and mining—California

Maps
Largest map in the world; a monster model, in relief, of the entire state of California. H. H. Dunn. il Sci Am 130:394 Je '24

CALIFORNIA, Lower
Mexican West Coast and Lower California. P. L. Bell and H. B. Mackenzie. il map U S Bur For & Dom Com 220:1-340 '23

CALIFORNIA debris commission
Shall the federal government finance construction of debris dams? H. A. Finch. Eng & Min J 119:805-6 My 16 '25

CALIFORNIA fruit growers exchange
What advertising did for Sunkist in 1923. Ptr Ink 125:49-50 D 13 '23
Why Sunkist missionaries will call on 40,000 retailers. P. S. Armstrong. Ptr Ink 127: 161-2 Je 12 '24

CALIFORNIA motor carriers' association
Annual meeting, San Francisco, Dec. 8-9. Bus Transportation 4:43-4 Ja '25

CALIFORNIA Oregon power company
Annual report for 1923. Comm & Fin Chr 118: 1155-7 Mr 8 '24
Annual report for the year 1924. Comm & Fin Chr 120:1479-81 Mr 21 '25
Interesting record of utility financing. J: D. McKee. Elec W 84:288-9 Ag 9 '24

CALIFORNIA palace. See Art galleries and museums

CALIFORNIA Rand silver, inc.
Metallurgical history of the California Rand. M. N. Colman. flow sheets il Eng & Min J 118:175-81 Ag 2 '24
Report for 1923. Eng & Min J 117:230 F 2 '24

CALIPERS
Driving box calipers for use in limited spaces. L. V. Mallory. diags Ry Mech Eng 99:724 N '25
Gear tooth calipers. H. Bentley. diags Cassier's Ind Management 12:207-8 Mr '25
See also Micrometers

CALKING
See also Oakum

CALKINS, Earnest Elmo
Louder please! excerpts. Sales Management 7:1895+ D '24

CALL loans. See Loans, Bank

CALOMEL. See Mercury chlorides

CALORIFIC value. See Combustion, Heat of

CALORIMETERS and calorimetry
Block calorimeter. Gas J (Lond) 165:31 Ja 2 '24
Box method for determining heat transmission. A. J. Wood. il diags Refrig Eng 10: 172-9 N '23
Bureau of standards reports steady progress with steam research. diags Power 60:766-7 N 11 '24
Calorific values by flow calorimeters. G: W. Burke. Gas Age 55:801-2 Je 6 '25
Calorimeter for heats of mixing at elevated temperatures. B. H. Carroll and J. H. Mathews. diags Am Chem Soc J 46:30-6 Ja '24
Calorimeter for measuring specific heats and heats of vaporization of liquids; the specific heat and heat of vaporization of liquid ethyl ether at 0° and 12°. F: G. Keyes and J. A. Beattie. diags Am Chem Soc J 46:1753-60 Ag '24
Calorimeter for steam investigations developed by Bureau of standards. P. W. Swain. il diags Power 60:246-8 Ag 12 '24
Calorimetric apparatus for the measurement of reaction heats at high temperatures particularly for the heat of carbonization of coal. J. D. Davis. diags Ind & Eng Chem 16:726-30 Jl '24
Calorimetric method of surveying the behavior of steam. N. S. Osborne. Mech Eng 46:88-90+ F '24
Calorimetry in medicine. W: S. McCann. 98p Williams & Wilkins co., Baltimore '24
Catechism of central station gas engineering in the United States. Am Gas J 122:275-6 Mr 28 '25
Corrosion of monel metal calorimeter bombs. J. C. Geniesse and E. J. Soop. Ind & Eng Chem 17:1197-9 N '25
Developments in gas calorimetry. C. V. Boys. il Gas J (Lond) 170:933-6 Je 17 '25; Abstract. Engineering 119:758-9 Je 19 '25; Discussion. Gas J (Lond) 170:936-8 Je 17 '25
Direct measurement of the heat content of superheated steam. N. S. Osborne. Mech Eng 46:808-9 pt 2 N '24
Dutch calorimeter designed by J. Dorgelo of Delft, Holland. diag Gas J (Lond) 171:51-2 Jl 1 '25; Gas Age 56:175, 176 Ag 8 '25
Importance of the accuracy of instruments. R. L. Rundorff. Gas Age 55:765-6+ My 30 '25
Improved differential method for the exact determination of specific heats of aqueous solutions; including results for various salts and organic acids. T. W. Richards and F. T. Gucker, jr. diags Am Chem Soc J 47: 1876-93 Jl '25
Improved method of determining the heat transfer through wall, floor, and roof sections. R. F. Norris, H. H. Germond, and C. M. Tuttle. diag Am Soc Heat & V E J 30: 109-14 F '24
Improvements in the working arrangements of the Boys calorimeter. H. C. Higgs. il Gas J (Lond) 171:664-5 S 16 '25
Jet calorimeter. W. Payman. diag Gas J (Lond) 168:645 D 3 '24
Measurement of the heat absorbed and evolved by clays during firing and cooling. L: Navias. il diag Am Cer Soc J 6:1268-98 D '23
Measuring heat transmission in building structures and a heat transmission meter. P. Nicholls. il diags Am Soc Heat & V E J 30: 35-70 Ja '24; Abstract. Ind & Eng Chem 16:490-3 My '24; Discussion. Am Soc Heat & V E J 30:264-7 Mr '24
New automatic pressure and temperature corrector for gas volumes. C. H. Beasley. diags Soc Chem Ind J 42:457-9 N 30 '23
Practical applications of the heat flow meter. P. Nicholls. Am Soc Heat & V E J 30: 439-51 Je '24
Recording calorimeter of French design. il diag Gas J (Lond) 165;697 Mr 19 '24
Regulating flow of gas to calorimeters. diag Am Gas J 122:73-4 Ja 24 '25
Report on progress in steam research at the Bureau of standards. N. S. Osborne and H. F. Stimson. diag Mech Eng 47:106-7 F '25
Simple gas calorimeter. H. Nielsen. il diags Gas J (Lond) 171:107-9 Jl 8 '25; Excerpt. Am Gas J 123:181 Ag 29 '25
Specific heat of superheated ammonia vapor. N. S. Osborne and others. il diag U S Bur Stand Sci Pa 501:65-110 '25; Same. Refrig Eng 10:145-68 N '23
Specific heats of certain organic liquids at elevated temperatures. J: W. Williams and F. Daniels. diags Am Chem Soc J 46:903-17 Ap '24
Spontaneous combustion of coal; characteristics shown by an adiabatic calorimeter. J. D. Davis and J. F. Byrne. Ind & Eng Chem 17:125-30 F '25
Steam research. I. V. Robinson. diags Power 62:134-6 Jl 28 '25
Throttling calorimeter. diags Power 60:149 Jl 22 '24
Throttling calorimeter. T: M. Gunn. diag Power 58:1023-4 D 25 '23; Discussion. 59:182-3, 223-4, 420-1, 458, 497-8 Ja 29-F 5, Mr 11-25 '24
Throttling calorimeter vs. the barrel method. L. G. Jones. Power 61:370 Mr 10 '25

See also Cooling; Oxy-calorimeter

CALORIMETRIC titration. See Volumetric analysis

CALORIZING
Calorizing better than sherardizing? A. V. Farr. Brass W 20:242 Jl '24
Use of aluminum to prevent steel corrosion. A. V. Farr. Chem & Met Eng 29:1188-9 D 31 '23

CALUMET baking powder company
Why our first sales methods remain unchanged after 35 years. W. Wright. Sales Management 8:365+ Mr 7 '25

CALUMET CITY, Illinois

Water supply
Reinforced concrete reservoir and pipe tunnel at Calumet City. E. A. Clark. Munic & Co Eng 63:145-8 Mr '25; Same. il Eng & Contr (W W) 63:1041-6 My 13 '25; Same cond. Pub Works 56:122-5 Ap '25; Same cond. Eng N 95:540-2 O 1 '25; Excerpts. Sanitary & Heat Eng 104:180-1 S 18 '25

CAMBRIDGE, Massachusetts

Water supply
Rapid sand filtration at Cambridge, Mass. G: A. Johnson. il diags N E Water Works Assn J 37:339-49, pl 1-5 D '23; Same. Can Eng 46: 339-41 Mr 18 '24; Discussion. N E Water Works Assn J 37:349-68 D '23

CAMBRIDGE, Pennsylvania

Rapid transit
Getting relief from unfair paving obligations. Aera 13:2042-6 Jl '25

CAMBRIDGE university, England

Engineering school
Engineering education at Cambridge university. il (supp) plan Engineer 138:462-4 O 24 '24; Abstract. Eng N 93:947 D 11 '24

CAMDEN, New Jersey

Railroads
Jackson street subway, Camden terminal. il diags plan Ry R 75:279-81 Ag 23 '24
New ferry terminal includes advanced designs; Reading installation at Camden, N.J. F. Jasperson. il plan Ry Age 76:1249-52 My 24 '24
Reading company opens new terminal at Camden, N.J. il diags plan Ry R 74:871-6 My 17 '24; Same. Eng & Contr (Ry) 61:1332-8 Je 18 '24
Work progresses on Camden terminal of P. & R. il Eng N 91:1074 D 27 '23

CAMEL'S hair
Combing camel hair and cashmere. diag Textile World 65:1735+ Mr 8 '24

CAMERAS
Camera for studying projectiles in flight. H. L. Curtis, W. H. Wadleigh and A. H. Sellman. il U S Bur Stand Tech Pa 255:189-202 '24
Equipment used for aerial surveying. E. Robinson. il Mech Eng 47:170-4 Mr '25

See also Lenses, Photographic; Photography; Photostat

CAMELLAIRD-FULLAGAR engine
Le bateau à moteurs Diesel et à propulsion électrique, La Playa. il diags Génie Civil 83:581-5, pl 6 D 15 '23
British yard builds largest marine Diesel engine; six cylinder Camellaird-Fullagar opposed piston engine. il diag Marine Eng 29: 238-40+ Ap '24
Fruit carrying motorship La Playa; fitted with Camellaird-Fullagar engines. il diags plans Marine Eng 29:20-4 Ja '24
Palmers' Camellaird-Fullagar oil engine. diags Engineering 118:145 Jl 25 '24

Testing
Palmer-Camellaird-Fullagar oil engine. Engineering 117:409 Mr 28 '24; Same. Power 59: 966 Je 10 '24

CAMP, Walter Mason, 1867-1925
Sketch. por Ry R 77:197-8 Ag 8 '25

CAMPAIGN funds
Where the campaign money goes. Comm & Fin 13:1688 S 10 '24

CAMPBELL, Edward DeMille, 1863-1925
Sketch. A. H. White. por Ind & Eng Chem 17:1204 N '25

CAMPBELL, Wilfred, 1884-1924
Sketch. por Power 60:117 Jl 15 '24; Gen Elec R 27:564 Ag '24; Mech Eng 46:504 Ag '24

CAMPHANE
Studies in the camphane series. M. O. Forster and P. P. Shukla. Chem Soc J 127: 1855-60 Ag '25

CAMPHOLYTIC acid
Structure of α-campholytic acid; a correction. J. P. C: Chandrasena, C. K. Ingold and J. F. Thorpe. Chem Soc J 127:1677-8 Jl '25

CAMPHOR
Lævo-camphor-10-sulphonic acid from synthetic camphor. H. Burgess and C: S. Gibson. Soc Chem Ind J 44:496-8 O 23 '25
New halogen derivatives of camphor; action of hydroxylamine on α- and α'-chlorocamphor and bromocamphor; action of sodium methoxide and ethoxide on αβ-dibromocamphor—formation of esters of α-bromocampholenic acid. H: Burgess. Chem Soc J 125:2375-81 N '24
New halogen derivatives of camphor: β-bromocamphor-α-sulphonic acid; the constitution of the Reychler series of camphorsulphonic acids—experiments on chlorosulphoxides. H: Burgess and T: M. Lowry. Chem Soc J 127:271-83 Ja '25
Nitrocellulose and camphor. J. B. Nichols. J Phys Chem 28:769-71 Jl '24
Production of synthetic camphor gains in France. Chem & Met Eng 32:718 Ag '25; Same. Chem Age (Lond) 13:279 S 12 '25
Rotatory dispersive power of organic compounds; β- and π-sulphonic derivatives of camphor. E. M: Richards and T: M. Lowry. Chem Soc J 127:1503-14 Jl '25
Rotatory dispersive power of organic compounds; borneol, camphor, and camphorquinone—the origin of complex and anomalous rotatory dispersion. T: M. Lowry and J: O. Cutter. Chem Soc J 127:604-15 Mr '25
Rotatory dispersive power of organic compounds; halogen-derivatives of camphor; abstract with discussion. T. M. Lowry, J. O. Cutter and H. Burgess. Soc Chem Ind J (Chem & Ind) 44:507-8 My 15 '25
Rotatory dispersive power of organic compounds; halogen derivatives of camphor: optical superposition in the camphor series. J: O. Cutter, H: Burgess and T: M. Lowry. Chem Soc J 127:1260-74 Je '25
Studies of valency; absorption spectra of camphor, benzylidenecamphor, and camphorquinone—optical evidence of two types of conjugation. T: M. Lowry and H. S. French. Chem Soc J 125:1921-7 S '24

See also Balbiano's acid

CAMPHORBENZYLIMIDE
Studies on the dependence of optical rotatory power on chemical constitution; rotatory dispersions of *d*-camphorimide, *d*-camphorbenzylimide, benzyl-*d*-camphoramic acid, and their derivatives. B. K. Singh and A. C. Biswas. Chem Soc J 125:1895-8 S '24

CAMPHORIC anhydride
Carboxycamphoranilic acids. M. Singh and R. Singh. Chem Soc J 127:1966-8 S '25

CAMPHORIMIDE
Studies on the dependence of optical rotatory power on chemical constitution; rotatory dispersions of *d*-camphorimide, *d*-camphorbenzylimide, benzyl-*d*-camphoramic acid, and their derivatives. B. K. Singh and A. C. Biswas. Chem Soc J 125:1895-8 S '24

CAMPHORONIC acid
Derivatives of camphoronic acid. W. F. Goebel and W: A. Noyes. Am Chem Soc J 45: 3064-70 D '23

CAMPHORQUINONE
Formation of *d*-2:2:4-trimethyl*cyclo*hexan-3-one-1-carboxylic acid from *d*-camphorquinone. C: S. Gibson and J: L. Simonsen. Chem Soc J 127:1294-1303 Je '25
Rotatory dispersive power of organic compounds; borneol, camphor, and camphorquinone—the origin of complex and anomalous rotatory dispersion. T: M. Lowry and J: O. Cutter. Chem Soc J 127:604-15 Mr '25
Rotatory dispersive power of organic compounds; the significance of simple rotatory dispersion—rotatory dispersion of camphorquinone and sucrose. T: M. Lowry and E. M: Richards. Chem Soc J 125:2511-24 D '24
Studies of valency; absorption spectra of camphor, benzylidenecamphor, and camphorquinone—optical evidence of two types of conjugation. T: M. Lowry and H. S. French. Chem Soc J 125:1921-7 S '24

CAMPHORYLCARBAMATES
Camphorylcarbamates and their physiological action. H. E. Fierz-David and W. Müller. Chem Soc J 125:26-7 Ja '24

CAMPING
Outfits, supplies, etc.
Call of the great outdoors—and the answer by the ingenious inventors. il Sci Am 131: 18-19 Jl '24

CAMPS
Training of aircraft apprentices at Halton camp. Engineer 137:119-20, 139-41, 148, 167-70 F 1-15 '24

CAMPS, Company. See Vacation camps

CAMPS, Military
Army camps making better citizens. R. L. Bullard. il Am Ind 24:9-12 Jl '24
Cantonment case decided; decision of U.S. District court of Kansas in case of United States against George A. Fuller co. Eng & Contr (G C) 64:136-9 Jl 15 '25
Dismiss war-camp construction indictment. Eng N 92:253-4 F 7 '24
Training brains for national safety; citizens' military training camps. G. E. Tripp. il Am Ind 25:17-19 My '25
Vindication at last. Eng N 94:219 F 5 '25

CAMPS, Mining. See Mining camps

CAMPS, Tourists'
Camping sites in public parks and forests. L. F. Kneipp. Ann Am Acad 116:62-6 N '24
Municipal tourist camps. Can Eng 49:265-6 S 1 '25

CAMPS, Tourists'—*Continued*
Standardization of auto tourist camps. H. N. Burhans. Munic & Co Eng 67:82-4 Ag '24

Equipment

Gas invades the wilds; tourists' camp at Marinette, Wis. il Gas Age 54:304 Ag 30 '24

CAMPS, Vacation. See Vacation camps

CAMS
Adjustable cams. E. E. Lakso. diags Mach 31: 133 O '24
Cam design. J. Park. diags Automobile Eng 15:110-13 Ap '25
Cam profiles and fuel injection on Diesel engines. F. Johnstone-Taylor. diag Marine Eng 29:665-6 N '24
Chart for use in designing and milling cams. H. W. Cable. Mach 31:852-4 Jl '25
Churchill cam grinding machine. il Automobile Eng 15:340 O '25
Designing cams for automatic screw machines. I. Svidlo. diag Am Mach 59:812-13 N 29 '23
Designing of cams is much simplified by graphical method. W. D. Appel. diags Automotive Ind 52:544-6 Mr 19 '25; Discussion. 52:948 My 28 '25
Developing ellipse for a pulley-shaft guiding cam. H. Brook. diags Mach 30:453 F '24
Development of special cams. C: F. Smith. diags Am Mach 61:627 O 16 '24
Grinding heart-shaped cams. C. L. Hall. diag Am Mach 63:399 S 3 '25
Heat treatment of steel cams. J. K. Wood. Am Mach 62:47-9 Ja 8 '25
Ingenious device for making a peculiar cam. E. Sheldon. il Am Mach 59:773-5 N 22 '23
Machine for cutting face cams. F. C. Hudson. il Am Mach 63:481 S 17 '25
Machining a large cam drum. H. A. Loudon. il diags Mach 31:979-82 Ag '25
Plate cam blanking die. H: Simon. diags Mach 31:727-9 My '25
Radial and rotary engine cams. P. Cormack. diags Automobile Eng 15:322 O '25
Some fixtures used in machining sewing-machine cams. F. O. Hickling. diags Am Mach 61:779-80, 817-18 N 13-20 '24

CANADA
Building an empire with advertising. E. W. Beatty. Ptr Ink 128:61-2+ Jl 17 '24
Canada spending half-million dollars to attract new citizens. B. R. Brooker. Ptr Ink 126:33-4+ Ja 24 '24
Inter-relationships between Canada and Australia within the British Empire. D. Macknnon. Econ W n s 27:906-7 Je 28 '24
Northern islands of Canada. F. D. Henderson. Can Eng 48:568 Je 9 '25
Two neighboring nations. W. G. Nash. Comm & Fin Chr 119:163-4 Jl 12 '24

See also Advertising—Canada; Aeronautics, Commercial—Canada; Automobile touring—Canada; Bonds, Government—Canada; Canals—Canada; Coal trade—Canada; Electric plants (central stations)—Canada; Electric railroads—Canada; Forests and forestry—Canada; Geology—Canada; Hydro-electric plants—Canada; Insurance, Life—Canada; Irrigation—Canada; Labor laws and legislation—Canada; Land tenure—Canada; Railroads—Canada; Railroads and state—Canada; Roads—Canada; Street railroads—Canada; Taxation—Canada; Welland ship canal

Boundaries

Treaty adjusts boundaries. Can Eng 49:321 S 15 '25

Commerce

Are sales managers blind to Canadian sales opportunities? R. W. Johnson. il Sales Management 6:1182-4+ pt 2 Je '24
Canada's imports. W. L. Edmonds. Iron Age 114:77 Jl 10 '24
Canada's trade on the Pacific. E. L. Chicanot. il World's Markets 14:5-7 Ja '24; Same. Dun's Int R 43:52-4 Mr '24
Canadian foreign trade in 1924-25. Comm M 7:14-15 Ag '25
Canadian imports and exports. Elec R (Lond) 93:675 N 2 '23
Canadian trade. Bradstreet's 53:29 Ja 10 '25
Foreign commerce of Canada in the fiscal year ended March 31, 1925. Econ W n s 29:735 My 23 '25
Two neighboring nations. Bradstreet's 52: 422-3 Je 28 '24

See also Electric industries—Canada; Retail trade—Canada; Shipping—Canada; Tariff—Canada

Commercial policy

Our relations with Canada. Nat City Bank p 7-8 Je '25
Unwisdom of governmental interference with normal relations between the United States and Canada. Econ W n s 29:658-9 My 9 '25

Economic conditions

Canada in 1923 and 1924. W: L. Edmonds. Annalist 23:11+ Ja 7 '24
Canada—on the brink? or at the dawn? A. C. Laut. il Forbes 16:91-3+ My 1 '25
Canada—retrospect and prospect. W. G. Cates. Comm & Fin 13:66 Ja 9 '24
Canada's national economy as effected by proximity to the United States. Econ W n s 30:405-6 S 19 '25
Canadian business—retrospect and prospect. W. G. Cates. Comm & Fin 14:72 Ja 14 '25
Canadian finance, trade and industry, 1921-1924. Survey of Cur Business 30:212-14 F '24 [continued quarterly]
Economic conditions in Canada. J. W. Tyson. Bankers M 111:116-19 Jl '25
Economy and caution bring Canada prosperity. W: L: Edmonds. Annalist 25:9 Ja 5 '25
Problems of Canada. Economist 99:950-2, 1006-7, 1051-3; 100:50-2, 89-90 D 13-27 '24, Ja 10-17 '25
What can the matter be? J. Ewing. Can Eng 45:470-2 N 6 '23

See also Banks and banking—Canada; Debts, Public—Canada; Finance—Canada; Immigration and emigration—Canada; Labor and laboring classes—Canada; Money—Canada; Strikes and lockouts—Canada; Unemployment—Canada; Wages—Canada

Foreign relations

Problems of Canada; American influences and the British connection. Economist 100:131-2 Ja 24 '25

Geological survey

Work of Geological survey of great value in development of mineral resources. Can Chem & Met 8:191-2 Ag '24

Industries and resources

Canada is British Empire's manufacturing center. E. L. Chicanot. il Forbes 14:154-5+ My 10 '24
Canada's natural resources as an assurance of her economic future. W. L. Edmonds. Econ W n s 30:151-3 Ag 1 '25
Canadian industry. Bradstreet's 52:478 Jl 26 '24
Chemical and allied industries reviewed. Can Chem & Met 8:111-16 My '24
Dominion of Canada at the British Empire exhibition. il plan Engineering 118:137-41 Jl 25 '24
Money value of Canada's production in 1923. Econ W n s 30:511-12 O 10 '25
Problems of industrial research in Canada. H. Freeman. Can Chem & Met 8:237-8 O '24
Yankee cash in Canadian industries. T: A. Kean. il Am Ind 24:27-9 D '23

See also Agriculture—Canada; Automobile industry and trade—Canada; Building trades—Canada; Chemical industries—Canada; Coal supply—Canada; Coal trade—Canada; Electricity supply—Canada; Gas, Natural—Canada; Gold mines and mining—Canada; Iron industry and trade—Canada; Iron ores—Canada; Mineral industries—Canada; Mines and mineral resources—Can-

CANADA—Industries and resources—*Continued*
ada; Paper industry and trade—Canada; Petroleum—Canada; Petroleum industry and trade—Canada; Rubber industry and trade—Canada; Steel industry and trade—Canada; Textile industry—Canada; Water power—Canada; Wool trade—Canada; *also* Canadian pulp and paper association

CANADIAN association of master painters and decorators
Annual convention, 21st, Chatham, Ontario, July 7-9. Oil Paint & Drug Rep 108:75 Jl 13 '25

CANADIAN association of official analysts
Interesting development arising through the formation of the Canadian association of official analysts. Can Chem & Met 7:283-5 N '23

CANADIAN association of stationary engineers
Annual convention, 36th, Windsor, Ont., June 23-25. Power 62:37 Jl 7 '25

CANADIAN building and construction industries, Association of. See Association of Canadian building and construction industries

CANADIAN co-operative wool growers
Facts and figures on a Canadian co-operative marketing plan. Ptr Ink 132:150 Jl 30 '25

CANADIAN electric railway association
Annual convention, Ottawa, June 11-13. Elec Ry J 63:979-83 Je 21 '24
Joint convention with the Canadian electrical association, Montreal, June 10-12. Elec Ry J 65:979-84 Je 20 '25

CANADIAN electrical association
Annual convention, Ottawa, June 11-13. Elec Ry J 63:979-83 Je 21 '24

CANADIAN gas association
Annual convention, 16th, Ottawa, August 23. Gas Age 52:245-6 S 1 '23; Gas J (Lond) 164: 454-5 N 14 '23
Annual convention, 17th, Toronto Island, August 28. Am Gas J 121:829-32 S 6 '24; Gas Age 54:313-15+ S 6 '24
Annual convention, 18th, Quebec City, July 15-16. Gas J (Lond) 171:391-2, 436-7 Ag 12-19 '25

CANADIAN good roads association
Annual meeting, 11th, St Andrews-by-the-Sea, June 24. il Can Eng 47:101-12 Jl 1 '24
Annual convention, 12th, Quebec, Sept. 22-24. Can Eng 49:345-58, 411-12 S 29 '25
Interprovincial good roads conference, Toronto, November 25-27. Can Eng 47:561-2 D 2 '24

CANADIAN institute of chemistry
Annual convention, 7th, Kingston, May 27-30. Can Chem & Met 8:132-9 Je '24
Annual meeting, 8th, Guelph, Ont., June 3-5. Can Chem & Met 9:157-63 Jl '25

CANADIAN institute of mining and metallurgy
Annual general meeting, 26th, Toronto, March 5-8. Eng & Min J 117:462-3 Mr 15 '24; Can Chem & Met 8:87-8 Ap '24
Annual meeting, 27th, Ottawa, Mar. 4-6. Can Chem & Met 9:81-8 Ap '25
Annual meeting, 27th, Ottawa, Mar. 4-6. G: C. Bateman. Eng & Min J 119:463-4 Mr 14 '25
British Columbia division meeting, Vancouver, Feb. 18-20. Eng & Min J 119:422 Mr 7 '25

CANADIAN national clay products association
Annual convention, 23d, Toronto. Can Eng 48: 174 Ja 27 '25

CANADIAN national exhibition
46th Canadian national exhibition. il Can Eng 47:276a-b, 293-6 Ag 26-S 2 '24
Canadian national exhibition, Toronto. Can Eng 49:268-70+, 291 S 1-8 '25

CANADIAN National railways
Annual report for the year ended Dec. 31, 1924. Comm & Fin Chr 121:191-2 Jl 11 '25
B. & O. plan to be applied on the Canadian National. Ry Age 77:994-5 N 29 '24
Canadian National railway securities. Moody's Inv Serv 16:47 Ja 31 '24
C.P.R.-C.N.R. merger talk gathers momentum. Ry Age 78:1089-90 My 2 '25
Canadian railway minister's report on C.N.R. Ry Age 76:1363-4 Je 7 '24
Heated controversy over C.N.R. debt. Ry Age 78:1163 My 9 '25
Proposes merger of C.P.R. and C.N.R. W. F. Maclean. Ry Age 78:898-9 Ap 4 '25
Railways minister opposes C.P.R.-C.N.R. merger. G: P. Graham. Ry Age 78:1218 My 16 '25

CANADIAN Pacific railway
Annual report for the year 1923. Comm & Fin Chr 118:1516, 1556-8 Mr 29 '24; Same abr. Ry Age 76:865-6 Mr 29 '24
Annual report, 44th, year ended December 31, 1924. Ry Age 78:859-61 Mr 28 '25; Same. Comm & Fin Chr 120:1606-8 Mr 28 '25
Canada's great highway: from the first stake to the last spike. J. H: E: Secretan. 252p John Lane, London '24
Canadian Pacific immigration and development policies. E. W. Beatty. il Ry R 75: 739-41 N 8 '24
Canadian Pacific 1924 operations. map Ry Age 78:833-5 Mr 28 '25
C.P.R. strength shown in 1923 earnings. map Ry Age 76:847-9 Mr 29 '24
C. P. R.-C. N. R. merger talk gathers momentum. Ry Age 78:1089-90 My 2 '25
Canadian Pacific troubles nearing an end. P. Gourrich. Annalist 25:125+ Ja 19 '25
Proposes merger of C.P.R. and C.N.R. W. F. Maclean. Ry Age 78:898-9 Ap 4 '25
Railways minister opposes C.P.R.-C.N.R. merger. G: P. Graham. Ry Age 78:1218 My 16 '25

CANADIAN pulp and paper association
Annual meeting, Jan. 28-30. Paper 35:27-30 F 12 '25

CANADIAN river, Texas
Geology and the location of dams on the Canadian river, Texas. L. T. Patton. Econ Geol 20:464-9 Ag '25

CANAL boats
Experiments with electrically operated barges in England. Elec W 83:177 Ja 26 '24
New type of canal boat minimizes wave action on unprotected banks. il Eng N 93: 337 Ag 28 '24
Water-jet propulsion. il Sci Am 130:249 Ap '24

CANAL companies
Canal companies' results. Economist 99:412-13 S 13 '24
Canal companies' results. Economist 101:449-50 S 19 '25

CANAL rays
L'analyse qualitative élémentaire par les rayons positifs. C. Matignon. diags Chimie & Ind 11:847-56 My '24
Mass-spectra of chemical elements; accelerated anode rays. F. W. Aston. diag Philos Mag 6th ser 47:385-400 F '24; Abstract. J Fr Inst 198:135-7 Jl '24

CANALS
L'alimentation mécanique des biefs supérieurs du versant sud du canal du Rhône au Rhin. C: Dantin. il diags map Génie Civil 86:158-63 F 14 '25
Calculation of hydraulic notch for channel control. H. B. Muckleston. Eng N 93:232-3 Ag 7 '24; Discussion. 93:641, 760 O 16, N 6 '24
Equation of long waves in canals of varying sections. N. Sen. Philos Mag 6th ser 48: 65-78 Jl '24
Permissible canal velocities. S. Fortier and F. C. Scobey. Am Soc C E Pro 51:1397-1413 S '25
Use explosives to shoot bank in canal work. Eng & Contr (G C) 63:1341 Je 17 '25

See also Irrigation canals; Locks (hydraulic engineering); Sand traps; Waterways; *also* names of canals, e.g. Cape Cod canal; Chesapeake and Delaware canal; Chicago drainage canal; Illinois waterway; Main Sierra canal; Morris canal, New Jersey; New York state barge canal; Panama canal; Rhône-Rhine canal; Suez canal; Welland ship canal

CANALS—*Continued*

California

Report favors proposed ship canal for Sacramento. Eng N 94:683 Ap 23 '25

Canada

Canadian canal statistics for 1924. Ry R 76: 837 My 2 '25

Canal system of Canada. Engineer 137:486-7 My 2 '24; Same. Can Eng 47:354 S 23 '24

See also Queenston-Chippawa canal; Rideau canal

Great Britain

Waterway to potteries district. Chem Age (Lond) 12:sup11 My 16 '25

See also Canal companies

North Carolina

Cutting a canal from the Atlantic to Carolina Sounds. B. L. Gray. Manuf Rec 86:73-4 N 13 '24

Spain

El canal de Castilla. E. Fungairino. map Engineer 140:340 O 2 '25

Sweden

Les portes à secteurs de l'écluse maritime du canal de Södertälje (Suède). il diags map plans Génie Civil 83:643-6 D 29 '23

Texas

Deep canal has curious effect on salt content of shallow lake; salt water found to travel more quickly in canal than in open lake. map Eng N 93:10-11 Jl 3 '24

United States

Lake Erie-Ohio river canal reported on unfavorably. Eng N 94:646-7 Ap 16 '25

Washington (state)

Control of sea water flowing into the Lake Washington ship canal. E. V: Smith and T: G. Thompson. il diag map Ind & Eng Chem 17:1084-7 O '25

CANARIES

Raising canaries for gas tests. F. H. Kneeland. Coal Age 28:432 S 24 '25

CANARIUM strictum Roxb. See Black dammar

CANCELLATION of orders

Cancellation evil exacts heavy toll from industry. E. L. Shaner. il Iron Tr R 76:559-61 F 26 '25

Cancelations; the American sugar refining company. Harvard Business R 2:496-502 Jl '24

Cancelations; the Harrison steel corporation. Harvard Business R 2:238-40 Ja '24

Cancelations; the Randolph shoe and leather company. Harvard Business R 2:367-70 Ap '24

Does it pay to sue good customers over cancelled orders? Sales Management 8:701-2 My 2 '25

Let the seller beware! W: Haynes. Nation's Business 12:16-17 Mr '24

Selling the non-cancellation idea to salesmen. E. Wolff. Ptr Ink M 8:33-4 Mr '24

When a buyer cancels because the market drops suddenly; recent legal decisions. Sales Management 8:829 My 30 '25

See also Returned goods

CANCER

Anatomical distribution of the occupational cancers. E. L. Kennaway. J Ind Hygiene 7:69-93 [bibliog. p. 92-3] F '25

Barnard ultra-microscope and photo-micrographs of the cancer germ; photographs. Sci Am 133:228-9 O '25

Cancer as a greater menace to life than tuberculosis. Econ W n s 28:707-8 N 15 '24

Cancer becomes a health objective in St Louis. M. A. Ittner. il Nation's Health 6: 760-2 N '24

Cancer heredity. A. Hunter. Spectator 115:7 Jl 2 '25

Cancer mortality rate for 1923. F: L. Hoffman. Spectator 112:3-4+ Je 12 '24; Same. Econ W n s 27:887-9 Je 21 '24

Le cancer par le goudron en France. P. Courmont. bibliog Chimie & Ind 12:379-80 Ag '24

Cancer-producing tars and tar-fractions. E. L. Kennaway. J Ind Hygiene 5:462-86; Bibliography. 486-8 Ap '24

Curing cancer with ultra radio frequencies. G: Lakhovsky. il Radio N 6:1382-3 F '25

Experimental inquiry into the causes of cancer; abstract. A. Leitch. J Ind Hygiene 5: sup209-11 Mr '24

Increase of cancer mortality at older ages. Econ W n s 28:133-4 Jl 26 '24

Our appalling cancer record for 1924. F: L. Hoffman. Spectator 114:3+ My 14 '25

Probability of dying of cancer. Econ W n s 27:97-8 Ja 19 '24

United States cancer death rate for 1922. F: L. Hoffman. Spectator 112:33-4 F 7 '24; Same. Econ W n s 27:312-13 Mr 1 '24

CANDELILLA wax

Wax from weeds. F. Le R. Thurmond. il Chem & Met Eng 31:782 N 17 '24

CANDLES

Manufacture of candles. Chem Age (Lond) 10: 190 F 23 '24

CANDY

See also Confectionery

Manufacture

Application of chemistry to confectionery. Chem Age (Lond) 12:426 My 2 '25

From cocoa and sugar to bon bons; candy in the making. il Sci Am 131:105 Ag '24

Making Beechnut fruit tablets. R. G. Van Gundy. il Gas Age 54:831-2 D 13 '24

CANDY factories

We make our own weather; Whitman candy factory. W: S. Doughten. il Factory 35: 418+ S '25

CANDY stores. See Schrafft stores

CANDY trade

American idea builds mail-order business in Argentina. Ptr Ink 126:153-4 F 28 '24

Combing for the last order; selling system that seeks universal distribution for Park & Tilford candies. G. Stewart. Ptr Ink M 11:19-20+ Jl '25

Find the master selling appeal and then stick to it; Robert A. Johnston company. H. Chandler. Ptr Ink M 11:39-40+ Jl '25

Ford idea in the candy business. Ptr Ink 129:137-8 N 27 '24

Foreign markets for confectionery; Europe, Canada, The Near East, and Africa. U S Bur For & Dom Com Trade Information Bul 328:1-25 '25

Foreign markets for confectionery; Far East. U S Bur For & Dom Com Trade Information Bul 317:1-15 '25

Foreign markets for confectionery; Latin America. U S Bur For & Dom Com Trade Information Bul 307:1-24 '25

He sells billions of penny candies; Henry Heide. G: Cary. il Nation's Business 12:40+ F '24

How some successful advertisers got their start. Ptr Ink 125:53-4+ N 15 '23

Package design as starting point for sales volume. F. E. Lowenstein. il Ptr Ink M 10:24+ Je '25

What the trade neglected, this manufacturer made a leader; merchandising Honey Scotch candy. J. N. Collins. Ptr Ink 131:113-14+ My 21 '25

Why we stopped making and selling a line of candies. G: H. Williamson. Sales Management 7:1451-2+ S '24

See also Whitman's, Philadelphia

Advertising

Advertising plan that revolves around a sampling campaign. il Sales Management 8:599+ Ap 18 '25

Big business with an undeveloped market. Ptr Ink 128:149+ S 4 '24

CANDY trade—Advertising—*Continued*
Oh Henry! plan for opening up a new territory. J: Glossinger. Sales Management 8: 42+ Ja 10 '25
Schrafft's strikes the unselfish note. Ptr Ink 132:73-4 Jl 16 '25
Seasonal advertiser can advertise throughout the year. M. Hastings, jr. Ptr Ink M 9:33+ Ag '24
Small advertiser relates his first year's experience. C. C. Chase. Ptr Ink 131:3-4+ Ap 2 '25
Steady advertising and selling breaks summer slump for Whitman. R. W. Johnson. Sales Management 7:1583-4 O '24
We increased our advertising when orders slackened. J: G. Glossinger. Ptr Ink 128:61-2 Ag 14 '24

CANNED food
Amazing variety of canned food. C. Bird. il Am Exporter 94:41-3 My '24
Apparatus for the accurate volumetric determination of tin in canned foods. E. J. B. Willey. diag Soc Chem Ind J 43:70-2 Mr 28 '24
Canning industry. Comm M 7:14-15 Je '25; Same. Econ W n s 30:46-7 Jl 11 '25
Chemical study of canned salmon. O. E. Shostrom, R. W. Clough and E. D. Clark. Ind & Eng Chem 16:283-9; Bibliography. 289 Mr '24
Domestic exports of canned and dried foods. Comm & Fin Chr 119:2477 N 29 '24 [continued monthly]
Economic importance of the American canning industry. Econ W n s 28:15 Jl 5 '24
Exports of canned and dried foods large beyond precedent. Comm & Fin Chr 119:396 Jl 26 '24
Food products fight contamination. il Chem & Met Eng 31:56-8 Jl 14 '24
Guarding the world's food supply. il Iron Age 116:331-4 Ag 6 '25
Health aspects of canned foods. C. R. Fellers. Nation's Health 6:227-9 Ap '24
Libby sells in Rome as it does at home. E. G. McDougall. Ptr Ink 129:33-4+ N 20 '24
Markets for canned foods in the western hemisphere. B. R. Hart. U S Bur For & Dom Com misc ser 128:1-222 '24
Story of canned foods. J. H. Collins. 251p Dutton '24
Twenty years of trying to find the best way to market. A. C. Braden. Ptr Ink 130:119-20+ Mr 26 '25
Vitamin C in canned foods. W. H. Eddy and E: F. Kohman. Ind & Eng Chem 16:52-3 Ja '24
Vitamins in canned foods; canned spinach. W. H. Eddy, E. F. Kohman and V. Carlsson. Ind & Eng Chem 17:69-74 Ja '25
Vitamins in canned foods; the vitamin C destructive factor in apples. E. F. Kohman, W. H. Eddy and V. Carlsson. charts Ind & Eng Chem 16:1261-3 D '24
See also Canning and preserving; Salmon

CANNED salmon. See Salmon

CANNERIES
Mechanical features of salmon canning. M. L. Dodge. Mech Eng 47:612-13 Ag '25

Employees
Skin disease among employees in fruit-packing plants. H. B. Myers and C. H. Thienes. Monthly Labor R 21:403-4 Ag '25

Power
Canning company makes power economically. R. W. Richardson. il diag plan Power Pl Eng 29:907-10 S 1 '25

CANNING and preserving
Canning of foods, and some tested recipes. H: M. Loomis. 106p National canners assn., Washington '25
Commercial fruit and vegetable products. W. V. Cruess. 515p McGraw-Hill '24
Complete course in canning. 5th ed., rev. & enl. 384p Press of the Canning trade, Baltimore '24
Corrosion of the tin container by canned food. H. W. Powell and E. W. McHenry. Can Chem & Met 8:185-6 Ag '24
$15 per day from drip and overflow; reclaiming lost sirup in green-fruit canneries. il Chem & Met Eng 31:781 N 17 '24
Nature of corrosion in canned fruits. E: F. Kohman and N. H. Sanborn. Ind & Eng Chem 16:290-5 Mr '24
Office and factory manual for fruit and vegetable canners. C. Knox. 719p C. Knox, San Francisco, Calif. '24
Scientific control in the canning industry. J. S. Horn. Chem Age 32:291-4 Jl '24
Scientific methods applied to the fruit preserving industry. B. McNeil. Sibley J 39: 272+ F '25
Sterilisation par la chaleur d'un milieu de culture contenu dans un récipient hermétiquement clos. E. Lasausse. Chimie & Ind 11:635-41 Ap '24
Survey of canning industry; Maryland and Delaware canners finding it difficult to contract for more acreage. Dun's R 32:7 Jl 19 '24
Technology of canning. O. Jones. Soc Chem Ind J 43:139-42 My 9 '24
Thermal process time for canned food. C: O. Ball. bibliog chart diag Nat Research Council Bul v 7, pt 1:1-76 O '23
Vacuum equipment for food processing. G: F. Kroha. il diag Chem & Met Eng 30: 320-1 F 25 '24
Waste reclamation in a food products industry. il Management & Adm 7:422 Ap '24
See also Canned food; Food preservatives; Jelly

CANS
See also Refuse receptacles; Tin cans

Manufacture
Controlling the flow of package products by materials handling equipment; assured savings in the B. T. Babbitt plant. J. Mendleson. il plans Management & Adm 7:545-50 My '24
Maywood plant of the American can company. il Blast F & Steel Pl 13:252-3 Je '25

CANTALOUPES
Handling cantaloupes. il Ry Age 79:723 O 17 '25

CANTILEVER bridges. See Bridges, Cantilever

CANVAS
See also Duck (textile)

CANVAS shoes. See Shoes, Canvas

CANVASSERS
Taxation
Real silk mills wins in court on canvasser issue. Ptr Ink 131:10+ Je 4 '25

CANVASSING
Bell ringers of business. T. K. Kelly. Comm & Fin 13:1941-2 O 8 '24
Bell-ringing at its peak. Comm & Fin 14: 1266 Jl 1 '25
Caveat vendor! P. Waxman. Ptr Ink 127:25-6+ My 15 '24
Dealer distribution or direct selling? Ptr Ink 128:165-6 Jl 24 '24
Developing the cold turkey canvass. J. W. Speare. Ptr Ink 129:53-4+ N 13 '24
Direct selling has come to stay. W. Curtis. Nation's Business 13:25-7 Ag '25
Encouraging retailers to sell away from their door-steps. R. Branner. il Ptr Ink M 9: 50+ N '24
Home town campaign provides data for waking up dealers. Sales Management 7: 1713-14+ N '24
House-to-house bugaboo! H. R. Wellman. Nation's Business 13:19-21 Jl '25
How to be invited in when selling house to house. Gas Age 54:302+ Ag 30 '24
How Victor is forcing sales in cities and trade centres. A. W. Hilton. Ptr Ink 130:17-20 Mr 19 '25
How we control and direct hundreds of house-to-house salesmen. O. R. Hogue. il Sales Management 7:1213-15+ Jl '24
How we make each selling hour count. T. O. Potter. System 47:491-2+ Ap '25

CANVASSING—*Continued*

How Welsbach helps gas companies maintain sales. M. MacDonald. Ptr Ink 124:25-8 Ag 9 '23; Same. Am Gas J 119:595-6 D 1 '23

Jewel tea begins advertising to back up sales force. O. B. Westphal. Sales Management 8:225-6 F 7 '25

Listing real prospects; taking a sanitary and heating census in cooperation with Public health department. Dom Eng 107:17-19 Je 14 '24

New birth for an old-time way of selling to farmers; selling Fuller brushes. A. E. Haase. Ptr Ink M 10:49+ F '25

Reaching the consumer through direct personal selling. Harvard Business R 4:94-106 O '25

Rising tide of direct selling. D. M. Hubbard. Ptr Ink 132:57-8+ S 3 '25

Round two in fight against house-to-house salesmen. Ptr Ink 131:73-4+ My 7 '25

Sales agents no longer free lances. Ptr Ink 129:106 D 4 '24

Some plain facts about retail merchants and the growth of house-to-house selling. E. Whitmore. Sales Management 8:407+ Mr 7 '25

Twenty years of trying to find the best way to market. A. C. Braden. Ptr Ink 130:119-20+ Mr 26 '25

Walker found a solution to the old trade-in bugaboo. D. G. Baird. il Sales Management 9:359-60+ S 19 '25

What a manufacturer learned from house-to-house selling. A. E. Mihell. Ptr Ink 128:129-30+ S 25 '24

What to do when the market is not spontaneous. G. A. Nichols. Ptr Ink 127:3-4+ Je 19 '24

When installation stands in the way of sales. Ptr Ink 129:99-100 O 16 '24

Why door-bell pushers sell circles around the retailer. Ptr Ink 129:157+ D 4 '24

See also Peddlers and peddling; *also* Calumet baking powder company

CAPE Cod canal

Government purchase of Cape Cod canal urged by New York Chamber of commerce. Comm & Fin Chr 118:757-8 F 16 '24

CAPILLARITY

Capillarité; phénomènes superficiels. H. P. M. Bouasse. 437p Delagrave, Paris '24

Capillary theory of adsorption from solution. W. A. Patrick. Am Inst Chem Eng Trans v 15 pt 1:283-92; Discussion. 292-4 '23

Investigation of the angle of contact between paraffin wax and water. R. Ablett. diags Philos Mag 6th ser 46:244-56 Ag '23; Discussion. A. Ferguson. 47:91-3 Ja '24

Some experiments on capillarity and oil migration. W: L. Russell. bibliog Econ Geol 19:35-61 Ja '24

Studies in the adsorption from solution from the standpoint of capillarity. W. A. Patrick, D. C. Jones and N. F. Eberman. J Phys Chem 29:1-10, 220-8 Ja-F '25

See also Brownian movements; Surface tension

CAPILLARY tubes

Accurate calibration of capillary tubes. K. J. Isaac and I. Masson. diag J Phys Chem 28:166-9 F '24

Capillary rise of water in tubes of various metals. E. K. Carver and F. Hovorka. diags Am Chem Soc J 47:1325-8 My '25

Determination of surface tension from the rise in capillary tubes. S: Sugden. Am Chem Soc J 47:60-4 Ja '25

Fractionation of petroleum during capillary migration. C: W. Cook. diag Econ Geol 20: 639-41 N '25

Rapid corrosion of metals by acids within capillaries. L. McCulloch. Am Chem Soc J 47:1940-2 Jl '25

CAPITAL

Capital requirements for manufacturing. W. A. Layman. Iron Age 114:210-12 Jl 24 '24; Same cond. Elec W 84:41-3 Jl 5 '24

Case for the investor. R: F. Grant. il Nation's Business 13:38-41 F '25

Future of money and capital. Moody's Inv Serv 17:235, 237-40 Jl 16 '25

Future supply of capital. H. Withers. Comm & Fin 13:2235 N 19 '24

How not to create capital. Economist 100:187-8 Ja 31 '25

Individual and social interests in relation to saving. C. F. Bickerdike. Econ J 34:408-22 S '24

Labor banks on over-capitalization. Bankers M 110:54 Ja '25

New capital flotations in December and the twelve months of the calendar year. Comm & Fin Chr 118:360-5 Ja 26 '24

New capital flotations; summary of corporate, foreign government, farm loan and municipal financing. Comm & Fin Chr 117:2263-7 N 24 '23 [continued monthly]

New capital issues in 1924. Economist 100: 7-9 Ja 3 '25

Principles which should govern the determination of capital and the amounts available for distribution of dividends in the case of corporations, with special reference to the system of capital stocks without a par value. S. Gundelfinger. J Account 37:321-48, 420-31; 38:31-41 My-Jl '24

Public capital issues in 1924. Nat City Bank p 4-7 Ja '25

Quarter's new capital. Economist 99:523-4 O 4 '24

Saving and the monetary system. C. F. Bickerdike. Econ J 35:366-78 S '25

Source of all capital—saving. G: E. Roberts. Nation's Business 12:27-8 Ag '24; Same. Paper Tr J 79:53-4 O 2 '24

Why I always ask; what will it do to our capital ratio? W. A. Layman. System 48: 153-8 Ag '25

See also Banks and banking; Corporations—Finance; Dividends; Economics; Industry; Interest; Investments; Labor and laboring classes; Profit; Trusts, Industrial; Wealth

Taxation

Appellate division of New York Supreme court upholds constitutionality of moneyed capital tax law. Comm & Fin Chr 121:280 Jl 18 '25

Capital levy; the case of the tradesman. E. J. P. Benn. Chem Age (Lond) 9:576-7 N 24 '23; Same abr. Electrician 91:578-9 N 23 '23

Interpretation by E. S. Seidman of Court decision upholding constitutionality of moneyed capital tax law of New York. Comm & Fin Chr 119:407 Jl 26 '24

New York Supreme court upholds constitutionality of moneyed capital tax law—text of decision. Comm & Fin Chr 119:271-4 Jl 19 '24

Our tax problem in the light of experiences abroad. M. Parsons. Annalist 23:345+ Mr 17 '24

Statement by Prime Minister Ramsay Macdonald of British policy regarding inflation and the capital levy. Comm & Fin Chr 118: 1084-6 Mr 8 '24

CAPITAL punishment

Capital punishment. L. T. Beman, comp. 366p [bibliog. p. xxxi-lxviii] H. W. Wilson co. '25

CAPITAL university, Bexley, Ohio

Divinity group, Capital university, Bexley, Ohio; views and plans. Am Arch 126:pl 41-3 Jl 30 '24

CAPITALISM

Capitalism's relation to human wants. E: A. Bradford. Annalist 22:821-2+ D 24 '23

Confessions of a capitalist, by E. Benn. Review, by H. Cox. Electrician 95:417 O 9 '25

Legal foundations of capitalism. J: R. Commons. 394p Macmillan '24

CAPITALIZATION

Are capitals a blessing or a nuisance? E: N. Teall. Inland Ptr 74:388-9 D '24

CAPITOL buildings
Greek revival capitol at Columbus, Ohio. T: E. O'Donnell. il plan Arch Forum 42:5-8 Ja '25
Heavy foundations on sand rock, Nebraska capitol. R. H. Chambers. il diag plan Eng N 94:107-9 Ja 15 '25
Missouri's new $5,200,000 state capitol. il Manuf Rec 85:92 O 2 '24

See also United States—Capitol

CAPPER, Arthur
Portrait. Bankers M 108:22 Ja '24

CAPRIC acid
Bauer oil, the high-boiling residue from molasses fusel oil; a source of capric acid. C. S. Marvel and F. D. Hager. Am Chem Soc J 46:726-31 Mr '24
Separation of octoic and decoic acids from cocoanut oil. E. E. Walker. Chem Soc J 123:2837-9 N '23
Synthesis of some possible precursors of lysine. C. S. Marvel and others. Am Chem Soc J 46:2838-42 D '24

CAPRYLIC acid
Separation of octoic and decoic acids from cocoanut oil. E. E. Walker. Chem Soc J 123:2837-9 N '23

CAR. See Cars

CAR axles
Interesting wheel and axle shop of Newport News shipbuilding & dry dock co. il diags plan Ry R 75:976-87 D 20 '24
Die mechanische schmierung der eisenbahnachsen. W. Friedrich. il diags Zeit Ver Deutsch Ing 68:877-9 Ag 23 '24
Reclaiming worn steel car axles. Iron Age 116:71 Jl 9 '25
Various sizes of car axles selected for standards by the American electric railway association. J: S. Dean. il Elec J 22:235+ My '25

Testing

Finding cracks in axles and pinions by electro-magnetic method. il Aera 14:779-80 N '25

CAR cleaning
British car cleaning methods. R. S. Pilcher. Aera 14:770-3 N '25
Car cleaning systematized at New Bedford. il Elec Ry J 66:135 Jl 25 '25
Keeping cars clean in the Twin Cities. Elec Ry J 64:731-2 O 25 '24
Maintenance and care of paint and varnish at terminals. Ry R 75:500-1 O 4 '24; Same. Ry Mech Eng 98:628-9 O '24
Reducing cost of car cleaning. Elec Ry J 66: 24-5 Jl 4 '25

CAR couplings
A. R. A. report on couplers and draft gears. Ry Age 78:1585 Je 20 '25; Ry R 76:1180 Je 20 '25; Ry Mech Eng 99:441-2 Jl '25
Articulated trains and self-propelled cars; A.E.R.A. heavy electric traction report. diag Ry Age 77:642-3 O 11 '24
Automatic couplings and the safety of railway workers. 62p 20c International labour office, Geneva '24; Abstract. Ry Age 77:517-18 S 20 '24
Coupling modification reduces accident hazard. il Elec Ry J 64:969 D 6 '24
Japanese railways adopt automatic couplers. Ry Age 79:816-17 O 31 '25
Relation of key connection to coupler action. C. R. Harding. diags Ry Mech Eng 98:475-6 Ag '24
Smooth starting for steam trains. il Sci Am 129:416 D '23

See also Mine cars—Couplings

CAR doors
By-pass for door engines. il diag Elec Ry J 65:900 Je 6 '25
Cast alpax railway-coach door. il diags Engineering 120:353-4 S 18 '25
Globe trackless door hanger. il Ry Age 76: 1613 Je 16 '24
Improved door arrangements in remodeled cars. il Elec Ry J 63:903 Je 7 '24
Manufacturing eyebolts for hopper car doors. F. E. Deissler. diags Ry Mech Eng 99:510 Ag '25
New door arrangement on the Berlin elevated. diag Elec Ry J 65:310 F 21 '25
Nouvelle serrure, système Birlé, pour la fermeture des portières des voitures des chemins de fer. diags Génie Civil 86:315-16 Mr 28 '25

See also Grain doors

Control

Automatic doors relieve Jim Crow problem. R: Meriwether. il Elec Ry J 65:227 F 7 '25
Automatic rear exit doors on Toronto rebuilt cars. diag Elec Ry J 64:799 N 8 '24
Electric treadle-controlled doors. il Elec Ry J 64:970 D 6 '24
Features of Toronto treadle cars. W. R. McRae. Elec Ry J 65:983-4 Je 20 '25
How treadle works on Toronto one-man cars. il Elec Ry J 64:1036 D 20 '24
Improved door operator. il Elec Ry J 64: 1008 D 13 '24
Multiple-unit door control on the Interborough subway trains. il diags Elec Ry J 66: 433-9 S 19 '25
New Chicago multiple-unit cars have automatic exit doors. il diags Elec Ry J 64: 837-41 N 15 '24
Operating rear door from any point in car. il diag Elec Ry J 65:1020 Je 27 '25
Proper leverage makes door operation easy. il diags Elec Ry J 63:942 Je 14 '24
Push-button switches for door control. il Elec Ry J 64:1040-1 D 20 '24
Refrigerator car door operating device. il Ry Age 78:1472-3 Je 13 '25

CAR dumpers. See Dumping appliances

CAR fenders
Car fender made of pieces of steel pipe. il diag Elec Ry J 63:341 Mr 1 '24
Dipping tank speeds up fender painting. il Elec Ry J 65:822-3 My 23 '25
Less accidents without fenders in Baltimore. Elec Ry J 65:34 Ja 3 '25

CAR ferries. See Train ferries

CAR heating
Developments in thermostatic control. L. P. Hynes. il Elec Ry J 64:930 N 29 '24
Economies effected by insulating train steam pipes. W: N. Allman. Ry Mech Eng 99: 160-1 Mr '25
Getting best results with heater control equipment. L. P. Hynes. diags Elec Ry J 63:97-100 Ja 19 '24
Inclosed coil heater. il Elec Ry J 64:737 O 25 '24
Kugelgelenk mit kardanaufhängung und neue biegsame metallschläuche für zugbeheitzung. diags Zeit Ver Deutsch Ing 68:950 S 13 '24
Peak load reducer. il Elec Ry J 66:836-7 N 7 '25
Possibility of utilizing grid losses for heating. D. D. Ewing. Elec Ry J 63:181-2 F 2 '24
Le réglage thermostatique de la température sur les voitures chauffées électriquement. diags Génie Civil 85:72-3 Jl 19 '24
Supplying coal for car heaters. P. V. C. See. il Elec Ry J 63:414 Mr 15 '24
Ventilation and heating of railway passenger cars. K. F. Nystrom. diags Ry R 74:328-33+ F 23 '24; Same cond. Ry Mech Eng 98: 227-30 Ap '24; Abstract. Ry Age 76:422-3 F 16 '24

See also Sleeping cars—Heating and ventilation

CAR houses
Carhouse for 100 cars at Louisville. F. H. Miller. il diags plan Elec Ry J 63:403-6 Mr 15 '24
Carhouse rails supported on cast-iron standards. diags Elec Ry J 63:454 Mr 22 '24; Same. Eng & Contr (Ry) 61:1372 Je 18 '24
Combined shop and carhouse for small property. il diag plan Elec Ry J 63:207-9 F 9 '24
Features of a modern carhouse door. il Eng & Contr (Ry) 62:427 Ag 20 '24

CAR houses—*Continued*
Fort Wayne builds modern carhouse. il diag plan Elec Ry J 64:191-4 Ag 9 '24
New regulations for wiring and car house construction; text. G. C. Hecker. Aera 13: 2025-36 Jl '25
Roncesvalles car house. il Can Eng 47:364 S 23 '24

CAR inspection
Car inspector's handbook. E. W. Hartough. 284p Simmons-Boardman pub. co., New York '24
Charging pull-ins against the inspector. Elec Ry J 63:975-6 Je 21 '24
Educating car inspectors on the C. & E.I. R. E. May. Ry Mech Eng 99:711-12 N '25
Improving car department service; abstracts. L. K. Sillcox. Ry Mech Eng 99:24-9 Ja '25; Ry R 76:78-86 Ja 3 '25
Inspecting cars on watt-hour basis. Elec Ry J 65:95-9 Ja 17 '25
Inspection and maintenance of freight cars. E. Erikson. il Ry Mech Eng 98:98-100 F '24
Inspection with watt-hour meters. O. A. Norene. Elec Ry J 62:828 N 10 '23
Intelligent oilers will prevent hot boxes. O. Skegsberg. Ry Mech Eng 98:538-9 S '24
Interborough inspection shop methods. il map Elec Ry J 64:238-42, 305-8 Ag 16, 30 '24
Maintenance the key to hot box prevention. M. S. Roberts. Ry Mech Eng 98:474-5 Ag '24
Specialized inspection reduces pull-ins on Kansas City railways. Elec Ry J 65:329-32 F 28 '25
Systematic inspection reduces pull-ins. Elec Ry J 62:1003 D 15 '23
Training the supervisory force. W. W. Holden. Elec Ry J 63:697-8 My 3 '24

CAR interchange. See Freight cars—Interchange

CAR lighting
Adjustable headlight mounting. il Elec Ry J 65:71-2 Ja 10 '25
Car lighting by electricity. C: W. T. Stuart. 356p Simmons-Boardman pub. co., Cleveland, O. '23
Elektrische zugbeleuchtung nach dem system BBC. il diag Elektrotech Zeit (special no.) 45:33-4 Ag 28 '24
Improved car-lighting system uses 20 lamps in series. il Elec Ry J 66:275-6 Ag 22 '25
Light, not lamps, determines economy of car lighting. E. E. Dorting. il Elec Ry J 64:80-2 Jl 19 '24
Lighting of trains, tramcars, and omnibuses. Elec R (Lond) 94:437 Mr 14 '24
Neues über beleuchtung von strassenbahnwagen. diags Elektrotech Zeit 45:1386 D 11 '24
Railway car lighting. G: E. Hulse. Illum Eng Soc 18:748-62 O '23
Report of A. R. A. committee on locomotive and car lighting. diags Ry Age 76:1558-60 Je 14 '24
Some notes on traction lighting by electricity. J. F. Caine and E. A. Marx, jr. diags Illum Engr 17:19-25; Discussion. 25-8 Ja '24
Variable-speed dynamos of the third-brush type for train lighting. C. Coppock. diags Elec R (Lond) 96:567-9 Ap 10 '25
White as an aid in car lighting. Ry R 76:778 Ap 25 '25

CAR load. See Freight car service—Car load

CAR loading statistics. See Railroads—Freight

CAR painting
Adjustable scaffold for car painting. il Elec Ry J 66:331 Ag 29 '25
Adjustable staging saves time in paint shops. il Elec Ry J 66:63 Jl 11 '25
Car painting costs pulled down to less than those of 1913. H. T. Hurlock. il Aera 13: 1985-92 Jl '25; Same. Elec Ry J 65:967-70 Je 20 '25
Economy in painting railway equipment. J. W. Gibbons. il Ry Mech Eng 98:625-6 O '24
Economy in painting steel passenger cars. G. H. Hammond. il Ry Mech Eng 98:672-4 N '24
Improved window guard for spray painting. J. H. Lucas. il Elec Ry J 65:612-13 Ap 18 '25
Is testing paint stock a useless innovation? W. O. Quest. Ry Mech Eng 99:693-5 N '25
New Englanders discuss car painting. Elec Ry J 65:896 Je 6 '25
Oils and pigments used in car painting. H. G. Noble. Elec Ry J 65:939-40 Je 13 '25
Painting of railway equipment. B. E. Miller. (Railwaymen's hand-book ser.) Simmons-Boardman pub. co., New York '24
Possibilities of mechanical painting. J. W. Gibbons. il Ry Mech Eng 98:360-2 Je '24
Preparation of iron and steel surfaces for paint. il Ry R 75:166-73 Ag 2 '24
Railway and marine varnishes. E. Perry. Oil Paint & Drug Rep 106:20 Jl 21 '24
Report of the A.R.A. mechanical division committee on tests. Ry Mech Eng 98:627-8; 99:695-7 O '24, N '25
Report on standards—car and locomotive. Ry Mech Eng 98:627 O '24
Riding increased by changing car color. il Elec Ry J 66:786 O 31 '25
Simplified color scheme aids spray painting. il Elec Ry J 64:929 N 29 '24
Some precautions needed for good spray painting. D. O'Brien. Elec Ry J 63:151-2 Ja 26 '24
Standards for painting cars and locomotives. Ry Mech Eng 98:272-4 My '24
See also American railway association—Equipment painting section

CAR retarders. See Brakes, Track

CAR roofs
Boston & Albany acquires light suburban cars. il plan Ry Age 78:935-6 Ap 11 '25; Same. Ry Mech Eng 99:277-9 My '25
Central of Georgia reclaims metal car roofs. W. H. Harrison. il diags Ry Mech Eng 98: 329-32 Je '24
Machine for cutting mule hide. W. W. Warner. il diags Ry Mech Eng 98:284-5 My '24

CAR seats
Distinctive car seating equipment by the Heywood-Wakefield company. il Ry Age 76: 1608 Je 16 '24
New seating arrangement to increase capacity. il diags Elec Ry J 63:654-5 Ap 26 '24
Rattan used extensively for car seats. B. Berry. Elec Ry J 63:163 Ja 26 '24
Renovating interior trimmings of passenger cars. il plan Ry Mech Eng 99:30-3 Ja '25
Washable seat covers prove popular on interurban line. Elec Ry J 62:1093 D 29 '23

CAR shops
History and development of passenger car building. G: A. Richardson. il plan Ry R 74: 1133-41 Je 14 '24
Improvements in the Johnstown car shops. G: A. Richardson. il Ry R 74:1040-5 Je 7 '24
Interesting wheel and axle shop of Newport News shipbuilding & dry dock co. il diags plan Ry R 75:976-87 D 20 '24
Maintaining freight cars under a cost plus plan. E. Nilsson. il plan Ry R 76:1051-5 Je 13 '25
More improvements in Bethlehem's Cambria shops. G: A. Richardson. il Ry R 76:1026-8, 1150-6 Je 6, 20 '25
Repair shops keep busy. Elec Ry J 65:258 F 14 '25
See also Railroads—Shops

CAR springs
Convenient spring puller. E. A. Miller. diag Ry Mech Eng 98:366 Je '24
Development in the design of automotive and railway leaf springs. J. K. Wood. diags Am Mach 62:923-8 Je 11 '25
Die for making journal box cover springs. il Elec Ry J 64:734 O 25 '24
Harvey friction bolster cushion of novel design. il Ry R 75:805 N 15 '24; Ry Age 77:992 N 29 '24; Ry Mech Eng 99:304-5 My '25
Machine for clamping elliptic car springs. il Ry Mech Eng 98:748 D '24
Maintaining car springs in Twin Cities. il diags Elec Ry J 65:325-7 F 28 '25

CAR springs—*Continued*
Release springs connected in body brake rigging. diag Elec Ry J 63:473-4 Mr 22 '24

CAR trucks
Boyden six-wheel co-ordinating truck. il diag plan Ry Mech Eng 98:602-4 O '24; Same. Ry Age 77:487-9 S 20 '24; Ry R 75:597-9 O 18 '24
Cross sectional areas uniformly stressed in improved truck side frame. J. D. Hagans. il diags Ry R 76:973-9 My 30 '25
General principles and designs of electric railway trucks. W. S. Adams. Aera 13:1153-60 F '25; Same cond. Elec Ry J 65:925-8 Je 13 '25
Increased spring capacity freight car truck. G: S. Chiles. il diags Ry R 74:1051-7 Je 7 '24
Link support for truck live lever. il diag Elec Ry J 63:746-7 My 10 '24
Manganese steel used for pedestal jaw plates. diags Elec Ry J 66:447 S 19 '25
Recent developments of the Dalman-Chiles truck. il diags Ry Age 78:1476-7 Je 13 '25
Truck side frame of channel-oval section. il diags Ry Age 78:1482-3 Je 13 '25
Turntables used for truck removal. il Elec Ry J 66:172 Ag 1 '25
25,300-lb. single-truck car seats 46. il diags Elec Ry J 65:877-9 Je 6 '25
Universal truck column anchor. il Ry Age 77:997 N 29 '24; Ry Mech Eng 99:60-1 Ja '25
L'utilisation des trucks-transporteurs sur les chemins de fer à voie étroite. L. Petit. il diag Génie Civil 86:259-62, 284-6 Mr 14-21 '25
Washburn side frame for arch bar trucks. il diags Ry Age 76:937-9 Ap 12 '24; Same. Ry Mech Eng 98:307-8 My '24

See also Cars, Articulated

Repair

Car truck and draft gear maintenance. E. W. Hartough. 228p Simmons-Boardman '25
New devices cut maintenance cost of arch bar trucks. il Ry R 75:806 N 15 '24
Repairing motor trucks for subway and elevated railways. F. H. Colvin. il Am Mach 61:843-5 N 27 '24
Truck overhauling made a continuous performance. il diags Elec Ry J 65:959-66 Je 20 '25

CAR ventilation
Ventilation and heating of passenger cars. K. F. Nystrom. il charts diags Ry Mech Eng 98:155-60 Mr '24; Same abr. Ry R 74:293-8 F 16 '24; Abstract. Ry Age 76:421-2 F 16 '24

CAR wheels
Cast iron; its constituents and relationship. Ry R 76:949-50 My 23 '25
Character of wheel and rail contact. J: P. Kelly. diags Ry Mech Eng 99:448-52 Jl '25
Cushion wheels tested to reduce noise. J: A. Dewhurst. diags Elec Ry J 64:1030 D 20 '24
Design of patterns for chilled castings. D. A. Hampson. Foundry 53:664-5 Ag 15 '25
Elektrisches anwärmen von radreifen. A. E. Müller. il Elektrotech Zeit 46:1046-7 Jl 9 '25
Gaging wrought steel wheels for car and tender. A. Knapp. diags Ry Mech Eng 98:164-7 Mr '24; Discussion. 98:224-7 Ap '24
Mounting car wheels. W. F. Tidswell. Ry R 74:617 Mr 29 '24
Mounting locomotive, tender and car wheels. diags Am Mach 60:768 My 22 '24
Mounting steel car wheels. W. F. Tidswell. Ry Mech Eng 98:92-3 F '24
New standard gage for steel wheels. diag Ry Mech Eng 97:819 D '23; Ry R 73:842 D 8 '23
New use for the A.R.A. steel wheel gage. A. B. Crandall. diags Ry Mech Eng 98:420-1 Jl '24
Report of A.R.A. committee on wheels. diags Ry R 74:1211-13 Je 21 '24
Report of A.R.A. committee on wheels. Ry Age 78:1590-3 Je 20 '25; Ry R 77:24-6 Jl 4 '25; Ry Mech Eng 99:445-7 Jl '25
Research inaugurated by car wheel makers. il Iron Age 113:1798-9 Je 19 '24
Results of cushion wheel tests. Elec Ry J 66:133 Jl 25 '25
Unusual story of the chilled iron wheel. F. K. Vial. Ry R 76:1066-9 Je 13 '25
Valuable facts to know about rolled steel wheels. G: A. Richardson. il diags Ry R 76:1070-4 Je 13 '25
Wheel car for changing wheels on the line. W. W. Warner. il Ry Mech Eng 98:94-5 F '24
Wheel service compared; mileage and cost per thousand car-miles. Elec Ry J 65:759-60 My 16 '25

See also Car axles

Manufacture

Betts car wheel boring machine. il Am Mach 60:33 Ja 3 '24; Iron Age 113:147 Ja 10 '24; Mach 30:399 Ja '24
Betts car-wheel boring machine equipped with double hoist. il Am Mach 60:822 My 29 '24; Mach 30:821 Je '24; Ry Mech Eng 98:385-6 Je '24
Car wheel foundry with parallel motions. il plan Iron Age 114:67-70 Jl 10 '24
Duplex topping, bossing and boring machine. Engineering 119:665-6, 672, pl 45 My 29 '25
Interesting wheel and axle shop of Newport News shipbuilding & dry dock co. il diags plan Ry R 75:976-87 D 20 '24
Make wheels and brakeshoes. P. Dwyer. il diag Foundry 52:707-12+ S 15 '24
Niles-Bement-Pond heavy carwheel lathe. il Iron Age 115:1638 Je 4 '25; Ry Mech Eng 99:376-7 Je '25
Soda ash as desulphurizer in foundry. Iron Age 115:473-4 F 12 '25
Twin cupolas melt wheel iron. P. Dwyer. il diags plan Foundry 52:287-93+ Ap 15 '24

Repair

Believes wheel welding can be done. F. J. Foote. Elec Ry J 63:972-3 Je 21 '24
Double-head welder cuts wheel maintenance in Detroit. A. C. Colby. il Elec Ry J 65:463-4 Mr 21 '25; Same. Am Mach 62:625-6 Ap 16 '25
Grinding cast iron wheels. W. M. Allison. Ry Mech Eng 99:710 N '25; Same. Ry R 77:494 S 27 '25
Machine for re-trueing railway carriage wheel tires. il diags Engineer 139:414-15 Ap 10 '25
Maintenance of electric railway car wheels. Elec J 21:81-2 F '24
Wheel maintenance practice in Denver. il Elec Ry J 65:327-8 F 28 '25

Storage

Carefully arranged wheel storage saves time. il Elec Ry J 63:111 Ja 19 '24

CAR windows
Steel vestibule window posts allow broader outlook. il Elec Ry J 65:332 F 28 '25

CARBAMIDE. See Urea

CARBAMYL chlorides
Decomposition of substituted carbamyl chlorides by hydroxy-compounds. T. W. Price. Chem Soc J 125:115-29 Ja '24

CARBAZOLE
Dyes derived from carbazole and thiodiphenylamine. S. Dutt. Chem Soc J 125:802-7 Ap '24; Abstract. Soc Dyers & Col J 40:264-5 Ag '24
Formation of 3-halogenocarbazoles from carbazole-3-diazonium halides. S. H. Tucker. Chem Soc J 125:1144-8 My '24
Improvements in manufacturing carbazol compounds. Textile World 68:507 Jl 25 '25
1:2:3:4:5:6:7:8-octahydrocarbazole and its derivatives. W: H: Perkin, jr. and S. G. P. Plant. Chem Soc J 125:1503-13 Jl '24
Oxidation of carbazole by silver oxide. G. E. K. Branch and W. W. Hall. Am Chem Soc J 46:438-45 F '24
Sulfur dyes from carbazole derivatives. E. Cagliostro. Color Tr J 14:117-18 Ap '24
Vinyl derivatives especially of carbazole and tetrahydrocarbazole and their behaviour with acids. G: R. Clemo and W: H: Perkin, jr. Chem Soc J 125:1804-14 S '24

See also Tetrahydrocarbazole

CARBETHOXY-ethylmalonate
Action of hydroxylamine and of hydrazine on the aryl monothio amides of carbethoxy-ethylmalonate. D: E. Worrall. Am Chem Soc J 45:3092-5 D '23

CARBINOLS
Tautomerism of ortho-hydroxy-triaryl carbinols which contain naphthyl groups. M. Gomberg and W. J. McGill. Am Chem Soc J 47:2392-2405 S '25

CARBOCOAL
Formula weights of low-temperature phenols. J. J. Morgan and M. H. Meighan. bibliog Ind & Eng Chem 17:854-6 Ag '25

CARBOCYANINES
Cyanine dyes; a new method of formation of the carbocyanines; the constitution of the thio*iso*cyanines and of kryptocyanine. W: H. Mills and W. T. K. Braunholtz. Chem Soc J 123:2804-13 N '23
Cyanine dyes; synthesis of a 2:4′-carbocyanine—constitution of the dicyanines. W: H. Mills and R. C. Odams. Chem Soc J 125: 1913-21 S '24
Reduction of the carbocyanines. F. M. Hamer. Chem Soc J 127:211-14 Ja '25

CARBOHYDRATES
Carbohydrate production and growth in plants under artificial light. R. B. Harvey. il Illum Eng Soc 19:311-17; Discussion. 326-35 Ap '24
Carbohydrates and the glucosides. E: F. Armstrong. 4th ed. 293p Longmans '24
Effects of the method of desiccation on the carbohydrates of plant tissue. K. P. Link. Am Chem Soc J 47:470-6 F '25
Induced oxidation of carbohydrates. C. C. Palit and N. R. Dhar. J Phys Chem 29: 799-807 Jl '25
Mechanism of the oxidation of typical carbohydrates with hydrogen peroxide and hypochlorous acid. J. Craik. Soc Chem Ind J 43:171-7 Je 6 '24
Oxidation of carbohydrates with air. H. A. Spoehr. Am Chem Soc J 46:1494-1502 Je '24
Studies on reactions relating to carbohydrates and polysaccharides; the electrolytic reduction of carbonyl derivatives. H. Hibbert and R. R. Read. diags Am Chem Soc J 46:983-99 Ap '24
Studies on the reactions relating to carbohydrates and polysaccharides; synthesis of 2,3-dimethyl-cyclopentene aldehyde. R. R. Read and H. Hibbert. Am Chem Soc J 46: 1281-3 My '24
Studies on the reactions relating to carbohydrates and polysaccharides; the oxidation of cellulose. H. Hibbert and J: L. Parsons. Soc Chem Ind J 44:473-85 [bibliog. p. 485] O 9 '25
Les théories modernes sur la constitution chimique des combustibles solides. E. Audibert and A. Raineau. Chimie & Ind 11:229-47, 434-48 F-Mr '24

See also Cellulose; Dextrose; Galactose; Glucosides; Polysaccharides; Starch; Sugars

CARBOLIC acid. See Phenol

CARBOLINE
5-Carboline and some derivatives. R. Robinson and S. Thornley. diag Chem Soc J 125: 2169-76 O '24
Harmine and harmaline; a synthesis of *apo*harmine and of certain carboline and copyrine derivatives. W. Lawson, W: H: Perkin, jr. and R. Robinson. Chem Soc J 125: 626-57 Mr '24

CARBON
Atomic weights of carbon and silver. G: Dean. Chem Soc J 125:2656-72 D '24
Attempts to prepare a fluocarbonate and their bearing upon the coördination number of carbon. J. H. Hildebrand, H. B. Merrill and J. Simons. Am Chem Soc J 46:2225-6 O '24
Behavior of sulphur and amorphous carbon at high temperatures. J. P. Wibaut and G. La Bastide. Am Cer Soc J 8 (Cer A 4): 116-17 Ap '25
Carbon at Porcupine. E. Y. Dougherty. Eng & Min J 119:214 Ja 31 '25
Carbon atom in crystalline structure. W: H: Bragg. J Fr Inst 198:615-25 N '24
Carbonaceous matter and metallic ores. Eng & Min J 118:202-3, 982-3 Ag 9, D 20 '24
Catalytic activity of carbons from aromatic hydrocarbons and some derivatives. W. Farmer and J. B. Firth. J Phys Chem 28: 1136-46 N '24
Combustion of carbon. H. F. Smith and others. il Ind & Eng Chem 17:694-5, 804-5, 930-1 Jl-S '25
Darco, a boneblack, is a new product of lignite. H. C. Marshall. Coal Age 26:334 S 4 '24
Decolorizing carbon from oil shale; patent. Chem Age 32:99 F '24
Diffusion of carbon thru tungsten and tungsten carbide. M. R. Andrews and S. Dushman. J Phys Chem 29:462-72 Ap '25
Industrial role of carbon. C: L. Mantell. Chemicals 24:7-10 O 26 '25
Manufacture and application of decolorizing carbons. Chem & Met Eng 30:441+ Mr 17 '24
Reduction of zinc oxide by carbon. G. A. Zeller and B. M. O'Harra. il diag Mo U Sch Mines & Met tech ser 8:1-32 N '24
Series spectra of two-valence-electron atoms of boron (Bii) and carbon (Ciii). I. S. Bowen and R. A. Millikan. Phys R 26:310-18 S '25
Soft X-rays from carbon. P. I. Lukirsky. diag Philos Mag 6th ser 47:466-70 F '24
Sorption of iodine by carbons prepared from paraffin hydrocarbons, carbon dioxide, aromatic hydrocarbons and derivatives, and from the products of oxidation of wood charcoal with fuming nitric acid. J. B. Firth, W. Farmer and J: Higson. Chem Soc J 125:488-92 Mr '24
Sorption of toluene and acetic acid and their mixtures by carbon. A. M. Bakr and J. W. McBain. Am Chem Soc J 46:2718-25 D '24
Study of the density of carbon. H. C. Howard and G. A. Hulett. diags J Phys Chem 28:1082-95 O '24
Temperkohle und eisengraphit als chemisch gleichartige kohlenstofformen. A. Lissner and R. Horny. Stahl & Eisen 45:1297-1301 Jl 30 '25
Testing decolorizing carbons. J: E. Teeple and P. Mahler. Ind & Eng Chem 16:498-500 My '24
Variation in the resistance of carbon and graphite with temperature. B. Noyes, jr. diag Phys R 24:190-9 Ag '24

See also Bone black; Carbon black; Charcoal; Coal; Coke; Diamonds; Graphite

Analysis

Determination of carbon in aluminum. R. Hahn. Metal Ind 22:318-19 Ag '24
Dosage du carbone dans les substances organiques et les combustibles par oxydation sulfochromique. D. Florentin. Chimie & Ind 11:875-9 My '24
Perfection of chromic acid method for determining organic carbon. J: W. White and F. J. Holben. diag Ind & Eng Chem 17:83-5 Ja '25
Rapid method of determining carbon in organic compounds. H. D. Wilde, jr. and H. L. Lochte. diag Am Chem Soc J 47:440-6 F '25
Sur l'application de la méthode d'oxydation au bichromate d'argent à la détermination du carbone dans les terres. L: J. Simon. Chimie & Ind 11:879-80 My '24
Volumetric determination of small quantities of carbon in tungsten by combustion. W. J. King. diags Am Chem Soc J 47:615-21 Mr '25

CARBON, Activated
Abatement of industrial stenches by means of activated carbon. A. B. Ray and N. K. Chaney. il plan Am Inst Chem Eng Trans v 15 pt 1:347-53 '23; Same. Chem & Met Eng 28:1114-16 Je 25 '23; Discussion. Am Inst Chem Eng Trans v 15 pt 1:353-60 '23
Absorbent and decolorising carbons. E. R. Sutcliffe. Soc Chem Ind J (Chem & Ind) 43: 635-6 Je 20 '24

CARBON, Activated—*Continued*
Activated carbon. W. Mecklenburg. Chem Age 32:503-5 D '24
Activated carbon and silica gel. E. Urbain. Gas J (Lond) 167:449-51 Jl 30 '24
Activated carbon for recovering benzene from gas. M. Steding. diags Am Gas J 121:611-12+ Jl 5 '24
Activated carbon installation. V. F. Gloag. Chem Age (Lond) 10:260-1; Discussion. 263-4 Mr 15 '24
Activated carbon—its evaluation, manufacture and uses. F: Bonnet, jr. Am Inst Chem Eng Trans v 15 pt 1:295-308 '23
Activated carbon v. silica gel. N. K. Chaney. Soc Chem Ind J (Chem & Ind) 42:1141-2 N 23 '23
Activated char for gold adsorption. R. H. McKee and P. M. Horton. Chem & Met Eng 32:164-7 Ja 26 '25
Activated charcoal. F. G. P. Remfry. Inst Pet Tech J 10:619 S '24
Activated graphite as a sorbent of oxygen. D. H. Bangham and J: Stafford. Chem Soc J 127:1085-94 My '25
Adsorbent carbons for many industries. R. H. McKee and P. M. Horton. bibliog Chem & Met Eng 32:13-16 Ja 5 '25
Adsorption by activated sugar charcoal; adsorbability by hydrogen and hydroxyl ions. E. J. Miller. Am Chem Soc J 47:1270-80 My '25
Adsorption of metals by charcoal. Chem & Met Eng 32:451-2 Ap '25
Adsorptive carbon and process of making same; patent. Chem & Met Eng 31:592 O 13 '24
New class of activated carbons; alkaline impregnated chars, peculiarly adapted for metal adsorption. R. H. McKee and P. M. Horton. Chem & Met Eng 32:56-9 Ja 12 '25
Properties of activated carbon which determine its industrial applications. N. K. Chaney, A. B. Ray and A. St John. bibliog Ind & Eng Chem 15:1244-55 D '23; Same. Am Inst Chem Eng Trans v 15 pt 1:309-46 '23
Reactivation of decolorising carbon. Chem Age (Lond) 10:289 Mr 22 '24
Reports on the progress of naphthology during 1924; special products. F. G. P. Remfry. bibliog Inst Pet Tech J 11:343-4 Ag '25
Second report of the joint benzole research committee. Gas J (Lond) 170:654-5 Je 3 '25
Taking the stenches out of [illegible]. J. H. Collins. il plan Sci Am 130:378-9+ Je '24

CARBON bisulphide. See Carbon disulfide

CARBON black
Air-floated carbon black now produced. Rubber Age 14:251 Ja 10 '24
Carbon black. diags Chem & Met Eng 30:719 My 5 '24
Carbon black. F. G. P. Remfry. Inst Pet Tech J 10:618-19 S '24
Carbon black output in 1924 increased 100 per cent. Chem & Met Eng 32:140 Ja 19 '25
Carbon black situation. H. L. Blachford. Can Chem & Met 9:125-6 My '25; Same abr. Chemicals 24:22 Jl 6 '25
Cooling the flame before it reaches the collecting plate. diag Chem & Met Eng 31:709 N 3 '24
Distribution of carbon black in rubber stocks. E. B. Spear and R. L. Moore. il Ind & Eng Chem 17:936-8 S '25
Electrical manufacture of carbon black. J. J: Jakosky. U S Bur Mines Tech Pa 351: 1-42 '24; Abstracts. J Fr Inst 199:422-4 Mr '25; Chemicals (Dyestuffs sec) 16:180 My 25 '25; Manuf Rec 87:75 Ja 22 '25; Nat Pet N 17:47+ F 18 '25; Pet Age 15:34 F 15 '25; Rubber Age 16:253 Ja 25 '25
Manufacture of carbon black in Canada. R. T. Elworthy. Inst Pet Tech J 10:356-7 Je '24; Same. Chem Age (Lond) 10:439 Ap 26 '24
Proposed specifications for lampblack. Am Soc T M Pro 24 pt 1:481-2 '24
Sulfur black versus carbon black. L. Mann. Paper 33:10 Mr 20 '24
Thermatomic carbon. A. A. Somerville and E. B. Spear. India Rubber W 70:728-9 Ag '24
See also Bone black

CARBON brushes. See Brushes (electric machinery)

CARBON compounds
Carbon compounds, a textbook of organic chemistry. C: W. Porter. 494p Ginn '24
Chemische konstitution und pharmakologische wirkung, ihre beziehungen zu einander bei den kohlenstoffverbindungen. A. Oswald. 892p Gebrüder Bornstraeger, Berlin '24
Classification of carbon compounds and their correlation with the compounds of other elements. R. J. Williams. 18p University of Oregon, Eugene '23
Electron displacement in carbon compounds; electron displacement versus alternate polarity in aliphatic compounds. H. J. Lucas and A. Y. Jameson. Am Chem Soc J 46: 2475-82 N '24
Electron displacement in carbon compounds; hydrogen bromide and 2-pentene. H. J. Lucas and H. W. Moyse. Am Chem Soc J 47: 1459-61 My '25
Electron displacement in carbon compounds; polarity differences in carbon-hydrogen unions. H. J. Lucas, T: P. Simpson and J. M. Carter. Am Chem Soc J 47:1462-9 My '25
See also Carbohydrates; Carbonates; Chemistry, Organic; Hydrocarbons

CARBON dioxide
Action of ultraviolet light upon carbon dioxide and water. C. W. Porter and H. C. Ramsperger. Am Chem Soc J 47:79-82 Ja '25
Adsorption of carbon dioxide and ammonia from gas bubbles. P. G. Ledig. il diags Ind & Eng Chem 16:1231-3 D '24
Aerology for amateurs and others. E. V. Hill. il diag Heat & Ven 20:52-5 D '23
Boiler-house efficiency. J. T. Beard, 2d. il Power 56:168-70 Ja 29 '24
Bringing the carboniferous period into the greenhouse. E. Bade. il diags Sci Am 131: 246 O '24
Carbon dioxide as an index of the critical oxidation temperature for coal in storage. S. W. Parr and C. C. Coons. il diag Ind & Eng Chem 17:118-20 F '25
CO_2 with coal, oil and gas. Power 60:30 Jl 1 '24
Chemical action of gaseous ions produced by alpha particles; reactions of the oxides of carbon. S. C. Lind and D. C. Bardwell. diags Am Chem Soc J 47:2675-97 N '25
Determination of the dielectric constants of five gases by a high frequency method. E. C. Fritts. il diags Phys R 23:345-56 Mr '24
Effect of nitrogen and carbon dioxide dilutions on explosion limits of acetone and methanol and their mixtures. H. Crouch and E. K. Carver. diag Ind & Eng Chem 17:641-2 Je '25
Effect of water and of carbon dioxide on the catalytic oxidation of carbon monoxide and hydrogen by oxygen. A. B. Lamb and W. E. Vail. diags Am Chem Soc J 47:123-42 Ja '25
Emission and absorption bands by carbon dioxide in the infrared. J. W. Ellis. Phys R 26:469-74 O '25
Equilibrium of carbon dioxide with carbon monoxide and oxygen in the corona discharge. G. L. Wendt and M. Farnsworth. diag Am Chem Soc J 47:2494-2500 O '25
Evidence of association in carbon dioxide from the Joule-Thomson effect. F: G. Keyes. Am Chem Soc J 46:1584-92 Jl '24
Experimental study of the Joule-Thomson effect in carbon dioxide. E. S. Burnett. diag Phys R 22:590-616 D '23
Heat of dissociation of calcium carbonate and the entropy of carbon dioxide. H. L. J. Bäckström. Am Chem Soc J 47:2443-9 O '25

CARBON dioxide—*Continued*
Heat of sublimation of carbon dioxide. J: W. Andrews. diags Am Chem Soc J 47:1597-1602 Je '25
Improved apparatus for estimating carbon dioxide. W. W. Reed. diag Soc Chem Ind J (Chem & Ind) 44:422 Ap 24 '25
Interaction of carbon dioxide and hydrogen on the surface of tungsten. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 127: 1546-52 Jl '25
Interaction of hydrogen and carbon dioxide on the surface of platinum. C: R. Prichard and C. N. Hinshelwood. diag Chem Soc J 127:806-11 Ap '25
Investigations in photosynthesis; an electrometric method of determining carbon dioxide. H. A. Spoehr and J. M. McGee. diag Ind & Eng Chem 16:128-30 F '24
Die kohlensäure des ackerbodens: die grüne kohle. Reinau. charts diag Zeit Ver Deutsch Ing 69:717-22 My 23 '25
Liberation of carbon dioxide, ammonia and amino nitrogen from casein by acid hydrolysis. M. S. Dunn. Am Chem Soc J 47:2564-8 O '25
Nature of the ions in air and in carbon dioxide. H: A. Erikson. diag Phys R 24:502-9 N '24
Per cent CO_2 obtained from boiler meter charts. C: E. Colborn. chart Power Pl Eng 28:195 F 1 '24
Preparation and analysis of constant mixtures of air and carbon dioxide. J: Johnston and A. C. Walker. diags Am Chem Soc J 47:1807-17 Jl '25
Putting pep in carbon dioxide. il Chem & Met Eng 32:192-4 F 2 '25
Rate of absorption and equilibrium of carbon dioxide in alkaline solutions. R. V. Williamson and J. H. Mathews. diag Ind & Eng Chem 16:1157-61 N '24
Recommended specification for quicklime and hydrated lime for use in the absorption of carbon dioxide. U S Bur Stand Circ 189:1-5 '24
Role of carbon dioxide in corrosion of iron. T. Fujihara. Chem & Met Eng 32:810-11 O '25
Scattering of light in mixtures of air and carbon dioxide. D. Banerji. Phys R 26:495-9 O '25
Sorption of ammonia and carbon dioxide by glass. D. H. Bangham and F. P. Burt. J Phys Chem 29:113-29 F '25
Study of adsorption phenomena in the vicinity of the critical temperature. W. A. Patrick, W. C. Preston and A. E. Owens. J Phys Chem 29:421-34 Ap '25
Study of the optimum condition for the preparation of normal valeric acid from butylmagnesium bromide and carbon dioxide. H: Gilman and H. H. Parker. Am Chem Soc J 46:2816-22 D '24
Technic for measuring the hydrogen ion concentration of distilled water and unbuffered solutions not in equilibrium with carbon dioxide of the air. L. E. Dawson. J Phys Chem 29:551-6 My '25
Volumetric estimation of total carbonic acid in dilute solutions of calcium hydrogen carbonate or in hard tap-waters. E: M. Crowther and W. S. Martin. Chem Soc J 125: 1937-9 S '24
Why high CO_2 lowers flue temperature. diags Power 62:343-4 S 1 '25
Windage losses in air, hydrogen, and carbon dioxide. C. W. Rice. il diag Gen Elec R 28:336-41 My '25

Industrial applications

Applying liquid carbon dioxide to extinguish oil fires. W. H. Freygang. il Stevens Ind 41:65-7+ My '24
Carbon dioxide treatment of foods. S: C. Prescott. Nation's Health 6:sup22-3 Jl '24
Chemical engineering and brewing. il Chem Age (Lond) 12:105 Ja 31 '25
Drowning a mine fire in carbon dioxide. C: H. Strange. il diag plan Coal Age 28:453-8 O 1 '25
Extinction of fires in generators by means of carbon dioxide. C: L. Jones. il diag Gen Elec R 27:650-7 O '24
Fire extinguisher using dry CO_2 gas. C. L. Jones. diag Elec W 83:1138 My 31 '24
Germicidal effect of carbonic gas in beverages. J. R. Donald, C. L. Jones and A. R. MacLean. Can Chem & Met 8:165-8 Jl '24
Operation of carbon dioxide refrigerating plants. G. Grow. Power 60:646-7 O 21 '24
Oxidation of zinc vapor by carbon dioxide. B. M. O'Harra. diags U S Bur Mines Tech Pa 336:1-22 '24
Removal of scale with carbon dioxide. C: L. Jones. Power 60:578-9 O 7 '24

CARBON dioxide compressors
Carbon dioxide compressor. H. J. Macintire. diags Refrig W 59:16-18 Je '24
Ten-ton refrigerating CO_2 compressor. il Engineering 116:738 D 14 '23

CARBON dioxide recorders
Apex pneumatic CO_2 indicator. il Eng & Min J 118:1035 D 27 '24; Paper 35:317 D 11 '24; Blast F & Steel Pl 13:48 Ja '25; Power Pl Eng 29:116 Ja 1 '25; Engineering 119:212 F 13 '25
Big little things in power plant practice. R. B. Williams. Gas Age 55:861-2 Je 20 '25
Brown electrical CO_2 meter. diags Power 58: 853-4 N 27 '23; Power Pl Eng 27:1158 N 15 '23; Management & Adm 7:102 Ja '24
CO_2 recorders cut fuel bill 15.5 per cent. C. L. Beegle. Gas Age 56:459 O 3 '25
Combustion control based on CO_2 in gas. G: E. Gaster. diags Power Pl Eng 28:768-9 Jl 15 '24; Discussion. 28:870, 1018 Ag 15, O 1 '24
Defender CO_2 recorder registers once every three minutes. il Power Pl Eng 28:509-10 My 1 '24; Power 59:839-40 My 20 '24
Electrically heated platinum tubes used in CO_2 recorder. diag Power Pl Eng 28:729-30 Jl 1 '24
Handling an Orsat. diags Power 59:738 My 6 '24
Making the refinery show a profit by reducing operating costs; testing flue gases; atomizing with gas. P. Truesdell. il Nat Pet N 15: 35+ D 12 '23
Modification of Orsat apparatus. G. A. DeGraaf. il Power 61:485 Mr 31 '25; Discussion. H. D. Fisher. 61:799-800 My 19 '25
New measuring device for the recording of CO_2 and CO based on physical properties. R. Duenckel. Blast F & Steel Pl 12:422+ S '24
Obtaining better service from the CO_2 recorder. A. P. Nutter. Power Pl Eng 29: 585-6 Je 1 '25
Power plant management. R. June. il diags Blast F & Steel Pl 11:610-13, 652+ N-D '23
Principles of CO_2 instruments. diags Power 61:587-8 Ap 14 '25
S & H electrical CO_2 meter. diags Gas Age 52:587-8 N 10 '23

Testing

Test of CO_2 recorders. J. F. Barkley. U S Bur Mines Rep of Invest 2668:1-2 Mr '25 (typew); Same. Gas Age 55:769-70 My 30 '25; Same. Power Pl Eng 29:533-4 My 15 '25

CARBON disulfide
Carbon bisulphide in coal gas. G. Griffiths. Gas J (Lond) 169:611-13 Mr 11 '25
Carbon bisulphide still explosion. Chem Age (Lond) 10:617 Je 14 '24
Carbon tetrachloride or carbon bisulphide. E. R. Hayhurst. Oil Paint & Drug Rep 108: xiii-xiv pt 2 O 5 '25; Same. Rubber Age 18: 88-91+ N 10 '25
Chemical poisoning in the rayon industry. Chemicals (Dyestuffs sec) 17:21 Jl 20 '25
Decolorization of carbon disulphide solutions of iodine by red phosphorus. R. N. Traxler and F. E. E. Germann. J Phys Chem 29: 1119-24 S '25
Ignition of carbon disulphide vapour and its phosphorescent flame; abstract. H. B. Dixon. Gas J (Lond) 171:224 Jl 22 '25
Nonstratifying carbon disulfide emulsion. W. E. Fleming. Ind & Eng Chem 17:1087 O '25

CARBON disulfide—*Continued*
Reaction between benzal-aniline and carbon disulfide at high temperature and pressure. L. A. Bigelow. Am Chem Soc J 47:193-8 Ja '25
Removal of carbon disulphide by a nickel catalyst. E. V. Evans and H. Stanier. Soc Chem Ind J (Chem & Ind) 43:379 Ap 11 '24

CARBON monoxide
Absorption of oxygen and liberation of carbon monoxide by alkaline pyrogallol solutions. T: J. Drakeley and H. Nicol. Soc Chem Ind J 44:457-62 S 25 '25
Air required to dilute automobile exhaust gases to safe proportions in air breathed. Heat & Ven 20:78 D '23
Baltimore investigates hazards of manufactured gas. il Nation's Health 7:418-19 Je '25
Carbon monoxide fatalities from natural-gas heaters investigated by the Bureau of mines in the Pittsburgh district during the past year. G. W. Jones and W. P. Yant. U S Bur Mines Rep of Invest 2572:1-4 '24
Carbon monoxide from domestic gas heating appliances. N. C. Dysart, E. R. Hayhurst and F. Berry. il Nation's Health 6:231-3+ Ap '24
Carbon monoxide hazard in public garages. E. Ciampolini. bibliog J Ind Hygiene 6:102-9 Jl '24
Carbon monoxide hazards from house heaters burning natural gas. G. W. Jones, L. B. Berger and W. F. Holbrook. il diags U S Bur Mines Tech Pa 337:1-31 '23
Carbon monoxide in gas heaters due to incomplete combustion. Eng N 92:987 Je 5 '24
Carbon monoxide in motor car exhaust gases. Engineer 137:282 Mr 14 '24
Carbon monoxide in public gas supplies. W. J. A. Butterfield. Gas J (Lond) 167:510-13, 587-9, 637-8 Ag 6-20 '24; Conclusions. Nation's Health 6:706-7 O '24
Carbon-monoxide literature. R. R. Sayers. U S Public Health Bul 150:1-54 [bibliog. p. 44-52] '25
Carbon monoxide poisoning. Blast F & Steel Pl 12:307 Je '24
Carbon monoxide poisoning and lower B.t.u. gas. F. W. Parsons. Gas Age 53:835-6 Je 14 '24
Carbon monoxide poisoning in homes and industries. R. R. Sayers. U S Bur Mines Rep of Invest 2593:1-8 Ap '24 (typew); Excerpts. Nat Safety N 10:32 S '24
Carbon monoxide poisoning in private garages. W. P. Yant, W. A. Jacobs and L. B. Berger. Ind & Eng Chem 16:1047-9 O '24
Carbon monoxide poisoning leading cause of death. Safety Eng 50:99-100 Ag '25
Carbon monoxide; present practice in the prevention of industrial poisoning. Nat Safety N 12:51 Jl '25
Carbon monoxide self-rescuer. A. C. Fieldner, S. H. Katz and D. A. Reynolds. il diags U S Bur Mines Rep of Invest 2591:1-10 Ap '24 (typew)
Carbon monoxide test. Am Mach 60:607 Ap 24 '24
Carbon monoxide under traffic in Liberty tunnels. A. C. Fieldner, W. P. Yant and L. L. Satler, jr. diags plans Eng N 93:1022-4 D 25 '24
Catalytic combination of ethylene and hydrogen in the presence of metallic copper; carbon monoxide as a catalyst poison. R. N. Pease and L. Stewart. Am Chem Soc J 47: 1235-40 My '25
Chemical action of gaseous ions produced by alpha particles; reactions of the oxides of carbon. S. C. Lind and D. C. Bardwell. diags Am Chem Soc J 47:2675-97 N '25
Combustion of carbon-monoxide mixtures. J. H. Crowe and A. H. Newey. Philos Mag 6th ser 49:1112-31 Je '25
Le contrôle de la teneur du gaz de ville en oxyde de carbone. A. Grebel. diag Chimie & Ind 11:256-9 F '24; Excerpt. Am Gas J 120:384-6+ Ap 26 '24
Dangers from carbon monoxide given off by heaters burning natural gas. G. W. Jones and W. P. Yant. diags Am Soc Heat & V E J 29:669-81 D '23
Decomposition of carbon monoxide in the corona due to alternating electric fields. M. Crespi and R. W. Lunt. Chem Soc J 127: 2052-7 S '25
Effect of water and of carbon dioxide on the catalytic oxidation of carbon monoxide and hydrogen by oxygen. A. B. Lamb and W. E. Vail. diags Am Chem Soc J 47:123-42 Ja '25
Equilibrium of carbon dioxide with carbon monoxide and oxygen in the corona discharge. G. L. Wendt and M. Farnsworth. diag Am Chem Soc J 47:2494-2500 O '25
Experience of American life insurance companies with deaths from carbon-monoxide gas poisoning. Econ W n s 29:783 My 30 '25
Explosion of ammonia with carbon monoxide and oxygen. J: W: Beeson and J. R. Partington. diag Chem Soc J 127:1146-50 My '25
Gas hazards in street manholes. S. H. Katz, E. G. Meiter and J. J. Bloomfield. U S Bur Mines Rep of Invest 2710:5-8 O '25 (typew)
Gaseous combustion at high pressures. W: A. Bone, D. M. Newitt and D. T. A. Townend. Gas J (Lond) 166:600-3, 747-50, 848-50 My 28, Je 11-18 '24
Hazard of carbon monoxide to the public and to industry. S. H. Katz. il Ind & Eng Chem 17:555-7 Je '25
Heats of oxidation of carbon monoxide and of hydrogen by manganese dioxide at 0° C. J. C. W. Frazer and C. E. Greider. diag J Phys Chem 29:1099-1104 S '25
L'indice de toxicité et l'utilisation de l'essence dans les automobiles. Kohn-Abrest. Génie Civil 86:20, 194 Ja 3, F 21 '25
Interesting case of carbon monoxide poisoning. F: W. Fabian. Heat & Ven 21:57 My '24
Liquid fuels from water gas. F. Fischer. Ind & Eng Chem 17:574-6 Je '25
Manganese dioxide in the catalytic oxidation of carbon monoxide. W. A. Whitesell and J. C. W. Frazer. Am Chem Soc J 45:2841-51 D '23
Methane by catalysis from CO in blue water gas. R. T. Haslam and H. O. Forrest. bibliog Gas Age 52:615-18+ N 17 '23
Method of testing gas appliances to determine their safety from producing carbon monoxide. E. R. Weaver, J. H. Eiseman and G. B. Shawn. Gas Age 56:241-2+, 281-2+, 319-22+ Ag 22-S 5 '25
New device for detecting carbon monoxide; hoolamite. il Am Gas J 123:31 Jl 11 '25
Percentage of carbon monoxide in mixtures of coal gas and water gas. F. E. Mills. Gas J (Lond) 172:26 O 7 '25
Promoting action of palladium on copper; the adsorption of hydrogen and carbon monoxide. W: W. Hurst and E. K. Rideal. diag Chem Soc J 125:694-705 Mr '24
Reaction between carbon monoxide and iodic acid in aqueous sulfuric acid. A. B. Lamb, A. W. Phillips and R. K. Carleton. Am Chem Soc J 46:2017-26 S '24
Recommendations for controlling health hazards in garages and automobile repair shops. G. M. Burnham. J Ind Hygiene 7: 254-60 [bibliog. p. 260] Je '25
Resuscitation from gas poisoning. F. L. Rector. Safety Eng 46:255-8 N '23
Le rôle de l'oxyde de carbone dans l'éclairage par incandescence. Chappuis. diags Génie Civil 85:93-5 Jl 26 '24; Abstract. Gas J (Lond) 167:938-9 S 24 '24
Rules for first aid and resuscitation in gas asphyxiation by the prone pressure and oxygen + carbon dioxide methods. Am Gas Assn General Sessions sec v 5:73-108 '23
Safety of gas fires in regard to carbon monoxide. L. Hill and T. C. Angus. Gas J (Lond) 170:110 Ap 8 '25
Specific heats of carbon monoxide and hydrocyanic acid vapour. J. R. Partington and M. F. Carroll. diag Philos Mag 6th ser 49: 665-80 Ap '25

CARBON monoxide—*Continued*

Sur l'emploi du réactif iodicosulfurique pour la protection contre l'oxyde de carbone et autres gaz toxiques. Guillemard and A. Lührmann. diags Chimie & Ind 14:29-32 Jl '25

Synthesis of methane and the removal of carbon monoxide from water gas and coal gas; Gas investigation committee report. Gas J (Lond) 167:126-9 Jl 2 '24

Tests of a commercial solution used to reduce the hazard of CO poisoning in garages. A. C. Fieldner and W. P. Yant. U S Bur Mines Rep of Invest 2594:1-4 Ap '24 (typew)

Tests of carbon monoxide hazards from tobacco smoke give negative results. G. W. Jones, W. P. Yant and L. B. Berger. Heat & Ven 20:55 D '23

Ventilating public passageways. Pub Works 55:337-8 N '24

Analysis

Pyrotannic acid method for the quantitative determination of carbon monoxide in blood and in air. R. R. Sayers and W. P. Yant. U S Bur Mines Tech Pa 373:1-18, pl 1-2 '25; Excerpts. Safety Eng 50:199-200 O '25; J Fr Inst 200:398-9 S '25

Rapid method for determination of carbon monoxide in hydrogen. A. T. Larson and C. W. Whittaker. diag Ind & Eng Chem 17: 317 Mr '25

CARBON monoxide recorders

Carbon-monoxide indicating apparatus. il Engineering 119:53 Ja 9 '25

Carbon monoxide meter. diags Mech Eng 45: 711-12 D '23

Continuous CO recorder in the Liberty Tunnels. A. C. Fieldner, S. H. Katz and E. G. Meiter. il diag Eng N 95:423-4 S 10 '25

New measuring device for the recording of CO_2 and CO based on physical properties. R. Duenckel. Blast F & Steel Pl 12:422+ S '24

Uehling instrument recording CO or other combustible content of gases. diag Chem & Met Eng 29:1106 D 17 '23; Gas Age 52:755 D 15 '23; Engineering 117:77 Ja 18 '24; Management & Adm 7:103 Ja '24; Power 59:55 Ja 8 '24

CARBON paper

Testing

Apparatus for the removal of impregnating and coating materials from processed papers. F. T. Carson. il diag Tech Assn Pa ser 8:103-4 '25; Same. Paper 35:39-40 F 12 '25; Same. Paper Tr J 80:53-4 Mr 19 '25

CARBON tetrachloride

Carbon tetrachloride as a cure for hookworm disease. Monthly Labor R 19:1342 D '24

Carbon tetrachloride or carbon bisulphide. E. R. Hayhurst. Oil Paint & Drug Rep 108: xiii-xiv pt 2 O 5 '25; Same. Rubber Age 18:88-91+ N 10 '25

Condensation of carbon tetrachloride and phenol:aurin. M. Gomberg and H. R. Snow. Am Chem Soc J 47:198-211 Ja '25

Corrosion of certain metals by carbon tetrachloride. F. H. Rhodes and J. T. Carty. il diag Ind & Eng Chem 17:909-11 S '25

Irregularities in the specific heats of certain organic liquids. J: W. Williams and F. Daniels. Am Chem Soc J 46:1569-77 Jl '24

Survey of products that afford industrial outlets for chlorine. P. S. Brallier. Chem & Met Eng 30:509-10 Mr 31 '24

Ten dollars, plus portable extinguisher protects agitator from fire. P. Truesdell. Nat Pet N 17:94+ Ap 29 '25

United States government master specification for fire-extinguishing liquid (carbon tetrachloride base). 2d ed. U S Bur Stand Circ 134:1-6 '24

CARBONADOS

Drill diamonds, carbons or carbonados; their occurrence in Brazil. F. L. Garrison. il map Eng & Min J 118:491-5 S 27 '24

CARBONATES

Carbonates of ethylene glycol and related compounds. C: F: Allpress and W: Maw. Chem Soc J 125:2259-64 N '24

Substituted carbonates derived from *p*-cresol. R. H. Griffith. Chem Soc J 125:2625-8 D '24

Sugar carbonates and their derivatives. C: F: Allpress and W. N. Haworth. Chem Soc J 125:1223-33 Je '24

See also Calcite; Calcium carbonate; Potassium carbonate; Sodium carbonate

Analysis

Microchemical method for the analysis of carbonates. M. Dominikiewicz. Chem Soc J 124 pt 2:876-8 D '23

CARBONIC acid. See Carbon dioxide

CARBONIZATION

Influence of catalysts on carbonisation. R. Lessing and M. A. L. Banks. Chem Soc J 125:2344-55 N '24

CARBONS

Carbon articles for the electrical industry. Chem Age 32:394 S '24

Sur le traitement des houilles par la naphtaline. M. Oswald and R. Pinta. diag Chimie & Ind 12:415-22 S '24

CARBONYL chloride. See Phosgene

CARBONYL compounds

Studies on reactions relating to carbohydrates and polysaccharides; the electrolytic reduction of carbonyl derivatives. H. Hibbert and R. R. Read. diags Am Chem Soc J 46:983-99 Ap '24

CARBORUNDUM

Artificial pulpstones. W. W. Greenwood. il Tech Assn Pa ser 8:37-40 '25; Same. Paper Tr J 80:169+ F 5 '25; Same. Paper 35:78+ F 12 '25

Thermal conductivity of carborundum refractories. M. L. Hartmann and O. B. Westmont. il diags Am Cer Soc J 8:259-86 My '25; Same cond. Am Electrochem Soc Trans v 46 (preprint 21):287-311 O '24; Abstract. Foundry 53:219-20 Mr 15 '25; Same. Iron Tr R 76:822 Mr 26 '25; Discussion. Am Cer Soc J 8:286-95 My '25

Manufacture

Making vitrified abrasive wheels. flow sheet il Chem & Met Eng 31:531-3 O 6 '24

Manufacturing of artificial abrasive. flow sheet il Chem & Met Eng 31:501-3 S 29 '24

CARBORUNDUM company

This plan gets carborundum salesmen to push entire line. W. Bates. Ptr Ink 132:10+ Jl 23 '25

CARBOXYCAMPHORANILIC acids

Carboxycamphoranilic acids. M. Singh and R. Singh. Chem Soc J 127:1966-8 S '25

CARBOXYLIC acids

Constitutional studies in the monocarboxylic acids derived from sugars; the methylation of tetramethyl gluconic acid. J: Pryde. Chem Soc J 125:520-2 Mr '24

Electric moments of the molecules of monocarboxylic acids and their esters. C: P. Smyth. Am Chem Soc J 47:1894-1900 Jl '25

CARBOYS

New method for emptying carboys. J. A. Watson. Soc Chem Ind J (Chem & Ind) 43:481 My 9 '24

Safe transportation of acid in carboys and drums. M. F. Crass. Chem Age 31:497-8 N '23

CARBURETERS

Beach carbureter is constant vacuum type. diag Automotive Ind 50:671 Mr 20 '24

Best location for carbureter intake. A. H. Hoffman. il Soc Auto Eng J 16:501-2 My '25; Discussion. 17:172-4 Ag '25

Car carburetion requirements. C. S. Kegerreis and O. Chenoweth. 20p Purdue U Eng Exp Sta Bul 17:1-20 '24

Carburateur à paraffine, système Commer. diags Génie Civil 84:138 F 9 '24

Carburateur Cozette. G. Delanghe. diags Génie Civil 85:394-5 N 1 '24

Carburation. D. Finlayson. Automobile Eng 15:115-23 Ap '25; Abstract. Automotive Ind 52:626-8 Ap 2 '25

CARBURETERS—*Continued*
Carburation in theory and practice. R. W. A. Brewer. 3d ed., rev. & enl. 298p C. Lockwood & son, London '24
Carbureter combines advantages of air valve and plain tube types. diag Automotive Ind 53:409-10 S 10 '25
Carbureting system has vaporizing devices. il Bus Transportation 3:34 Ja '24
Carburettor design. Engineering 119:325-6 Mr 13 '25
Carburettor handbook. E. W. Knott. 403p Pitman '25
Comparison of ideal and commercial carbureter characteristics. C. S. Kegerreis. il charts Soc Auto Eng J 14:286-301 Mr '24; Discussion. 14:609-12 Je '24
Effect of speed on mixture requirements and other carburetion requirements. C. S. Kegerreis and G. A. Young. 32p Purdue univ., Lafayette, Ind. '23
Explains theory governing carbureter with intake throttle. P. S. Tice. Automotive Ind 49:1099-1101 N 29 '23
Float adjustment improved on new bus carburetor. il Bus Transportation 3:526-7 N '24
Hunter carburetor; abstract. diag Mech Eng 47:354 My '25
Juhasz carbureter of a new type has four spray nozzles. il diags Automotive Ind 52: 1033-4 Je 11 '25
New device enriches charge for high speed and heavy pull, and leans it otherwise. W. L. Carver. Automotive Ind 51:1049-50 D 18 '24
New principle embodied in Baechler heavy fuel unit. diags Automotive Ind 50:757-8 Ap 3 '24
Poorly designed carbureters held cause of appalling fuel waste. Automotive Ind 53:791-2 N 5 '25
Saving gasoline and increasing mileage by proper carburetor adjustment. G. W. Jones and A. A. Straub. U S Bur Mines Rep of Invest 2616:1-9 Je '24 (typew)
Self-contained kerosene carburetor. Sci Am 129:418 D '23
Stewart-Warner carbureter has special control features. il diags Automotive Ind 53: 24-6 Jl 2 '25
Tests show fuel supply requirements for acceleration. P. S. Tice. il Automotive Ind 53:53-9 Jl 9 '25
U F Zenith bus carburetor for heavy work. il Bus Transportation 3:82 F '24

CARCASSONNE, France
Towered cities. G. G. King. il Am Inst Arch J 12:103-9 Mr '24

CARD clothing. See Carding machines

CARD system in business
Posting ledger desk. il Management & Adm 8: 427 O '24
See also Records, Visible

CARDAMOM oil
Travancore essential oils; oil from the seeds of elattaria cardamomum (cardamoms). K. L. Moudgill. Soc Chem Ind J 43:137-8 My 2 '24

CARDBOARD. See Paper board

CARDING machines
Card grinding and resetting. J. D. Pell. Textile World 67:3865+ Je 13 '25
Large uses of steel in small ways; card clothing. Iron Tr R 74:990-1 Ap 10 '24
See also Cotton carding

Stripping
Vacuum card stripping. S. M. Green. Textile World 67:2993+ My 2 '25

CARELS works, Ghent
Visit to the Carels works at Ghent. G. L. Carden. il Power 59:861-2 My 27 '24

CARGO. See Ships—Cargo

CARICATURES and cartoons
J. N. Ding who puts a smile in economics. H: Schott. il Nation's Business 13:37-8 My '25

CARNEGIE, Andrew
Andrew Carnegie said—; high spots in the ironmaster's management methods. C: R. Flint. por System 44:752-3 D '23

CARNEGIE (yacht)
Surveying the oceans with the non-magnetic yacht Carnegie. J. P. Ault. il Sci Am 133: 46-7 Jl '25

CARNEGIE institute of technology, Pittsburgh
Outline of instruction in sanitation heating and ventilation. C. B. Connelly. il Sanitary & Heat Eng 102:122-3+ Ag 22 '24

Bureau of metallurgical research
Bureau of metallurgy is established. Iron Tr R 75:222 Jl 24 '24

Theodore Ahrens professorship
Theodore Ahrens endows professorship at Carnegie. Dom Eng 113:25-6 O 31 '25

CARNEGIE institute of Washington

Geophysical laboratory
Science and industry in America. W. Rosenhain. il Engineer 136:494-6 N 9 '23

CARNEGIEITE
Crystalline modifications of $NaAlSiO_4$. N. L. Bowen and J. W. Greig. il diags Am J Sci 5th ser 10:204-12 S '25

CARNOT, Nicolas Leonard Sadi, 1796-1832
Appreciation of Carnot and his work. C. H. Peabody. Marine Eng 30:68+ F '25
Carnot centenary commemoration; papers of M. I. Pupin and W: L. Emmet. por Mech Eng 47:37-40 Ja '25
Founder of modern thermodynamics. Mech Eng 46:721-2 N '24
Sketch. E. C. Smith. Power 60:137-8 Jl 22 '24
See also Carnot's principle

CARNOTITE
Carnotite and tyuyamunite and their ores in Colorado and Utah. W. F. Hillebrand. Am J Sci 5th ser 8:201-16 S '24
Carnotite discovered near Aguila, Ariz. D. F. Hewett. Eng & Min J 120:19 Jl 4 '25
Diamond drilling for carnotite in Colorado. G: Kunkle. Eng & Min J 119:763-4 My 9 '25
Ionium; recovery of ionium from carnotite—adsorption of ionium-thorium by barium sulfate—ionium-thorium ratio in carnotite. G. D. Kammer and A. Silverman. Am Chem Soc J 47:2514-22 O '25
Modified method for the determination of uranium in carnotite. P. H. M.-P. Brinton and R. B. Ellestad. Ind & Eng Chem 16: 1191-2 N '24
Relation between uranium and radium; the period of ionium and the ionium-thorium ratio in Colorado carnotite and Joachimsthal pitchblende. F: Soddy and A. F. R. Hitchins. Philos Mag 6th ser 47:1148-58 Je '24
See also Radium

CARNOT'S principle
Carnot and Rankine cycles. Engineer 138: 699-700 D 19 '24
Carnot's influence upon engineering. W: L. Emmet. Mech Eng 47:39-40 Ja '25
Carnot's principle. M. I. Pupin. Mech Eng 47:38-9 Ja '25; Same. Power 60:1034-5 D 23 '24
Physico-chemical evolution. C: E. Guye. 172p Dutton
Proof of the corollary of Carnot's theorem. A. E. Ruark. Philos Mag 6th ser 49:584-5 Mr '25

CARO, Heinrich
Reminiscences of Dr Caro. E. F. Ehrhardt. Soc Chem Ind J (Chem & Ind) 43:561-5 My 30 '24; Abstract. Chem Age (Lond) 10:138 F 9 '24

CAROÁ
Caroá fiber as a papermaking material. M. B. Shaw and R. R. Rumsey. il Tech Assn Pa ser 8:107-9 '25; Same. Paper Tr J 80: 47-9 Ja 8 '25

CAROLINA, Clinchfield & Ohio railroad
Annual report, 14th, year ended Dec. 31, 1924. Comm & Fin Chr 120:3058-9 Je 13 '25
Carolina, Clinchfield & Ohio lease approved. Ry Age 76:1766-8 Je 21 '24; Excerpt. Ry R 74:1229-30 Je 21 '24
Carolina, Clinchfield & Ohio railroad bonds. Moody's Inv Serv 16:351 S 18 '24
Conditions for Clinchfield lease suggested. Ry Age 76:418 F 16 '24
Leased line stock. Moody's Inv Serv 16:423 N 20 '24

CARON process. See Silver metallurgy

CARP
Carp in sewage purification. Sci Am 131:25 Jl '24

CARPENTER, Charles
Dr Carpenter and the Birmingham medal. por Gas J (Lond) 170:857-8 Je 17 '25

CARPENTERS
Carpenters; labor agreement in Chicago. Monthly Labor R 20:103-5 Ja '25

CARPENTER'S company
Carpenter's company organized in Philadelphia in 1724. C. A. Ziegler. il Am Arch 126: 313-18 O 8 '24

CARPENTERS' shops

Lighting

Lighting of the carpenter's shop. Illum Engr 17:108 Je '24

CARPENTERS' square
Steel square and its uses. 255p Shrewesbury pub. co., 5311 West Lake st., Chicago '25
Steel square applied to roof construction. J. T. Draper. 63p Van Nostrand '23
Steel square pocket book. D. L. Stoddard. 3d ed., rev. & enl. 172p U. P. C. book co. '25
Using small squares on large braces. E. Davis. diag Bldg Age 47:138+ F '25

CARPENTRY
Analysis of the house carpenter's trade. L. G. Stier. 32p Univ. of California, Berkeley '23
Carpenter work, stair work, mill work for the beginner. G: W. Raynor. 66p G: W. Raynor, Philadelphia '24
Carpentry and joinery. W: S. Lowndes. various paging McKay '25
Essais de résistance sur quelques types d'assemblage pour charpentes en bois. F. Cretin. il diags Génie Civil 86:9-12, 35-8 Ja 3-10 '25
Exemples de charpentes modernes en bois. F. Cretin. il diags Génie Civil 84:256-60 Mr 15 '24
Jobbing work for the carpenter, builder and handy man. E: H. Crussell. 2d ed. 273p U.P.C. book co. '23
Popular mechanics carpenter's handbook. 104p Popular mechanics press, Chicago '25
Practical carpentry. 253p Shrewesbury pub. co., 5311 West Lake st., Chicago '25

See also Building; Cars—Manufacture; Doors; Floors; Framing (building); Roofs; Shingling; Stairways; Wall board; Woodwork; Woodworking machinery

Specifications

Outline of tentative specifications for structural carpentry. Am Arch 125:369-70 Ap 9 '24

CARPET factories
Carpet manufacture; electric drive replaces steam. il Electrician 92:256-7 F 29 '24
Electric drive in carpet mills. il Elec R (Lond) 97:20-2 Jl 3 '25

Safety devices and measures

Whittall carpet mill has five clear months. Nat Safety N 12:40 Ag '25

CARPETS
Carpet industry. Economist 98:286-7 F 16 '24
Carpet manufacturing developments. H. E. Wadely. il Textile World 67:1373-4 F 21 '25
Carpet outlook is strong. Textile World 67: 955 F 7 '25
Carpets and rugs. R. Beaumont. 426p Van Nostrand '24
Collection of antique carpets. 57p B. Altman & co., New York '23
Dyeing yarn for carpets. A. K. Robertson. Textile Col 46:706-9, 774-7+; 47:99+ N-D '24, F '25
Manufacture of wool carpets and rugs in the United States in 1923. Econ W n s 27:627 My 3 '24
Successful year in carpets. Textile World 65: 887 F 2 '24
Tapestry yarn printing. L: J. Matos. Am Dyestuff Rep 12:735-8 O 8 '23; Excerpts. Textile World 65:2529+ Ap 12 '24
Textile institute discussion. Textile Inst J 15:P130-1 My '24
Wool floor covering industry in the United States. Comm M 6:22-30 Jl '24

See also Linoleum; Rugs

CARRIAGE and wagon making
Wheelwright's shop. G: Sturt. 236p Macmillan '23

CARRIER current telegraph. See Telegraph, Carrier current

CARRIER current telephone. See Telephone, Carrier current

CARRIER slides. See Feed mechanism

CARRIERS

See Canals; Communication and traffic; Demurrage; Electric railroads; Express service; Freight car service; Jitney buses; Motor bus lines; Postal service; Public utilities; Railroad law; Railroads; Shipping; Steamboat lines; Street railroads; Transportation

CARS
Bogie for L.M.S. railway car at the British Empire exhibition. il diags Engineering 118: 160-3, pl 17 Ag 1 '24
Car built for King of Egypt. il diags Engineering 118:475-8, pl 51 O 3 '24
Chicago & Alton re-equips limited train. il diags plans Ry Mech Eng 98:669-72 N '24
Cuban tours de luxe are planned; new palm-decorated all-Pullman cars. il plans Ry Age 78:217-19 Ja 17 '25; Ry R 76:311-12 F 14 '25
Development in Pullman business; conversion of Pullman sleeping cars into coaches. il Ry R 77:598 O 17 '25
Development of railroad car equipment. E. Nilsson. il Ry R 77:480-4 S 26 '25
Industrial transportation over definite lines of travel. M: W. Potts. il Ind Management 68:50-7 Jl '24
New equipment for Oriental limited trains. il plans Ry Age 76:1303-5 My 31 '24
New Haven remodeled cars largely increase seating capacity. Ry R 74:775-6 Ap 26 '24
New seating arrangement to increase capacity of multiple-unit coaches of New Haven railroad. il plan Elec Ry J 63:654-5 Ap 26 '24
Railroad passenger car up-to-date; abstracts. C. E. Barba. Ry Age 76:1101-2 My 3 '24; Ry Mech Eng 98:479-81 Ag '24
Report on the preservation of car lumber. Ry Age 78:366-7 F 7 '25
Representative examples of passenger train cars built in 1923. il Ry R 74:45-8 Ja 5 '24
Representative examples of passenger train cars built in 1924. il Ry R 76:63-71 Ja 3 '25
Short cut methods for carmen. H. K. Christie. 188p Simmons-Boardman pub. co., New York '24

See also Air brakes; Automobiles; Baggage and express cars; Brakes; Car axles; Car couplings; Car doors; Car heating; Car houses; Car inspection; Car lighting; Car painting; Car roofs; Car seats; Car springs; Car trucks; Car ventilation; Car wheels; Cars, Caboose; Cars, Electric railroad; Cars, Section; Cars, Superintendent's; Cars, Subway; Coal cars; Dining cars; Draft gears; Dump cars; Dynamometer cars; Electric railroads—Rolling stock; Electric vehicles; Freight car service; Freight cars; Grain cars; Mine cars; Motor cars (rail-

CARS—*Continued*
road); Observation cars; Postal cars; Railroads—Rolling stock; Refrigerator cars; Sleeping cars; Stock cars; Street cars; Tank cars

Bearings

Analysis of causes and remedy for hot boxes. M. L. Harger. Ry Mech Eng 99:157-9 Mr '25

Anti-friction bearing applications for heavy duty; abstracts. J. B. Dahlerus. diags Engineering 119:208-10, 239-40 F 13-20 '25; Engineer 139:197-8 F 13 '25; Elec R (Lond) 96: 592-3 Ap 10 '25; Discussion. Engineering 119:184-6, 260, 267-9 F 13, 27 '25; Engineer 139:180, 237 F 13, 27 '25

Axle-boxes and lubrication; report to the International railway congress. Engineer 139: 647-8 Je 12 '25; Engineering 119:807-8; 120: 7 Je 26-Jl 3 '25; Ry R 77:352-3 S 5 '25

Casting railroad bearings. G. H. Clamer. il chart Foundry 53:791-4, 829-32, 886-90 O 1-N 1 '25

Hot boxes. C. E. Peiffers. Ry R 75:1005 D 20 '24

How to prevent hot boxes. J. J. Melley. Ry R 77:570 O 10 '25

How to stop hot box epidemics. A. M. Orr. Ry Mech Eng 99:499-501 Ag '25

Intelligent oilers will prevent hot boxes. O. Skegsberg. Ry Mech Eng 98:538-9 S '24

Journal boxes with anti-friction bearings. O. R. Wikander. diags Ry Mech Eng 98:33-5 Ja '24

Journal lubricating system. il diag Ry Age 76:1783 Je 21 '24; Same. Ry Mech Eng 98: 505-6 Ag '24

Lubrication. M. J. O'Connor. Ry Mech Eng 97:824-5; Discussion. 825-6 D '23

Maintenance the key to hot box prevention. M. S. Roberts. Ry Mech Eng 98:474-5 Ag '24

N.K.A. disk bearings for railway car journals. il diags Ry Age 78:801-2 Mr 21 '25; Ry Mech Eng 99:182-3 Mr '25

Normung von achsbuchsen mit rollenlagern von schienenfahrzeugen. O. R. Wikander. diags Zeit Ver Deutsch Ing 68:474-5 My 10 '24

Pad system applied to journal bearings. F. Johnstone-Taylor. diags Am Mach 60:9-10 Ja 3 '24

Preventing hot boxes. C. G. Williams. Am Mach 62:934 Je 11 '25

Prevention of hot boxes. T. O. Quinn. diag Ry Mech Eng 99:217-18 Ap '25

Prevention of hot boxes on freight cars. E. Von Bergen. Ry Mech Eng 98:749-50 D '24

Renewing journal box pedestal guides. il Elec Ry J 63:514-15 Mr 29 '24

Self-fitting torsion spring journal box lid. il Ry Age 77:1173-4 D 27 '24

See also Bearings; Cars, Electric railroad—Bearings; Dust guards

Design

Die einheitspersonenwagen der Deutschen Reichsbahn. Speer. il diags Zeit Ver Deutsch Ing 68:957-64 S 13 '24

New Canadian National sleeping cars. il diags plans Ry Mech Eng 98:27-30 Ja '24

Passenger cars for the Penang Hills railway. diags Engineering 118:729-30 N 28 '24

Equipment

New Pullman equipment for L. & N. Pan-American trains. il diags Ry Age 79:216-19 Ag 1 '25

Lubrication

Lubrication. L. R. Christy. Ry Mech Eng 99: 627-9 O '25; Discussion. 99:708 N '25

Lubrication of locomotives and cars. D. Wood. Ry Age 77:1129-30 D 20 '24

Manufacture

Ateliers de construction du Nord de la France à Blanc-Misseron. R. Jouassain. Soc Ing Civils Bul 77:645-50, pl 83 O '24

Austauschbau bei eisenbahnwagen. Klein. diags Zeit Ver Deutsch Ing 68:965-9 S 13 '24

Economic value of car lumber preservation. F. S. Shinn. il Ry Mech Eng 98:546-7 S '24

History and development of passenger car building. G: A. Richardson. il plan Ry R 74:1133-41 Je 14 '24

Production methods in British passenger car building. D. R. Lamb. il Ry R 73:782-6 D 1 '23

Railway wagon body making machine. il diags Engineer 138:114 Jl 25 '24

Prices

Index of railway car and locomotive prices. Ry Age 77:277-8 Ag 16 '24

Passenger car prices in 1924. Ry Age 78:90 Ja 3 '25

Repair

Handbook of wooden car repairs. E. W. Hartough. 276p Simmons-Boardman '25

Oxyacetylene torch used to good advantage in Omaha. il Elec Ry J 65:336-7 F 28 '25

Passenger car scheduling system. J. Gullage. chart Ry Mech Eng 99:502-5 Ag '25

Renovating interior trimmings of passenger cars. il plan Ry Mech Eng 99:30-3, 100-3 Ja-F '25

Running repair costs and repair work practices. Ry R 75:409-10 S 13 '24

See also Car shops; Car wheels—Repair; Cars, Steel—Repair; Cars, Subway—Repair; Freight cars—Repair; Railroads—Maintenance and repair; Railroads—Shops

Statistics

Car equipment in the year 1924. Ry R 76: 43-73 Ja 3 '25

Car orders placed during 1924. Ry Mech Eng 99:95-7 F '25

Census of the car industry, 1923. Ry Age 77: 523-4 S 20 '24

Freight and passenger car orders in 1923. Ry Mech Eng 98:91-2 F '24

Large progress in passenger car acquisitions. Ry Age 76:83-6 Ja 5 '24

1924 passenger car orders large. F. W. Kraeger. Ry Age 78:83-7 Ja 3 '25

Railway equipment, 1919-May, 1924. Survey of Cur Business 35:54-5 Jl '24

Summary of equipment purchases during 1924. Ry R 76:91-3 Ja 3 '25

Toilet rooms

Hopper lock for car toilets. diags Ry Age 77: 656 O 11 '24

Trucks

See Car trucks

CARS, Articulated

Articulated car. W. G. Gove. Aera 13:861-7 D '24; Same cond. il diags Ry Age 77:979-81 N 29 '24; Same cond. Elec Ry J 64:963-6 D 6 '24

Articulated trains and self-propelled cars; A.E.R.A. heavy electric traction report. diags Ry Age 77:641-3 O 11 '24; Aera 13:452-4 O '24

Canadian National builds nine motor rail cars. il plans Ry Mech Eng 99:682-7 N '25; Same abr. Ry Age 79:695-9 O 17 '25

Canadian National develops oil-electric car. W. W. Baxter. il diags plans Ry R 77:689-94 N 7 '25

German railways try articulated trains. il diags Elec Ry J 65:259-61 F 14 '25

See also Cars, Electric railroad—Articulated cars

CARS, Ballast

Ballast car embodies new dumping features. il diags Ry Age 75:1167-8 D 22 '23

New ballast cars of the Michigan Central R.R. il diags Ry R 74:435-8 Mr 8 '24

CARS, Caboose

Ford's railroad receives new cabooses. il Ry R 77:359-60 S 5 '25

Representative examples of caboose cars built in 1923. il Ry R 74:41-2 Ja 5 '24

Representative examples of caboose cars built in 1924. il Ry R 76:62-3 Ja 3 '25

CARS, Construction
Portable compressor railroad car outfit. il Eng & Contr (G C) 63:1086-8 My 20 '25

CARS, Crane
Well constructed crane car for Montreal. il Elec Ry J 62:864-5 N 17 '23

CARS, Dynamometer. See Dynamometer cars

CARS, Electric railroad
A B C of the electric car. J. S. Dean. 83p Westinghouse electric & mfg. co., East Pittsburgh, Pa. '24
A B C of the electric cars. J. S. Dean. diags Aera 10:1125-7; 11:199-200, 699-701; 12:103-7, 1246-9 Jl, S '22, Ja, Ag '23, F '24
Bombay suburban electrification. il Ry Age 78:836-8 Mr 28 '25
Buffalo & Erie cars have novel features. il diags plan Elec Ry J 66:203-6 Ag 8 '25
Control equipment mounted inside baggage cars. C. R. Seybold. il Elec Ry J 65:580-1 Ap 11 '25
Control trailer for the Metropolitan railway. Engineering 118:9, pl 4-5 Jl 4 '24
Electric rapid transit inaugurated on Staten Island. il map Elec Ry J 66:3-6 Jl 4 '25
Electrification of Paris suburban railways. map plan Elec Ry J 65:376-7 Mr 7 '25
Experience shows light cars increase net of interurban lines. C. T. DeHore. il Elec Ry J 62:927-30 D 1 '23
Features of new Long Island cars. il Elec Ry J 63:167-70 F 2 '24
How the Indianapolis & Cincinnati line was rehabilitated. il diags Elec Ry J 64:203-6 Ag 9 '24
I.C.R.R. cars for Chicago electrification designed for heavy service. il diags Elec Ry J 65:211-14 F 7 '25
I.T.S. buys observation interurban cars. il diag plans Elec Ry J 65:51-3 Ja 10 '25
Improvements in motor car design. H. Dubath. Elec Ry J 64:251-3 Ag 16 '24
Light-weight interurban car has cabinet control. il diags Elec Ry J 65:133-5 Ja 24 '25
Light-weight interurban cars. W. J. Clardy. Elec Ry J 65:152-3 Ja 24 '25
Luxurious cars for interurban service. il Elec Ry J 64:199-201 Ag 9 '24
Neue triebwagen bei der Hamburger stadt- und vorortbahn. il Zeit Ver Deutsch Ing 69: 1195-6 S 12 '25
New single-phase equipment for the Southern railway. il Engineer 139:486-7 My 1 '25
Passenger comfort the feature of the new Chicago L cars. il diags plan Elec Ry J 63:55-9 Ja 12 '24
Plush seats in new Chicago "L" cars. il Elec Ry J 62:993 D 8 '23
Rapid transit cars in Berlin. il diag Elec Ry J 65:689-90 My 2 '25
Reconstructed cars for open air line. il Elec Ry J 62:860 N 17 '23
Reducing weight of rapid transit cars saves $108,000 a year; East Boston tunnel. J: Lindall. il diags Elec Ry J 64:269-74 Ag 23 '24
Relief effected by train operation in East Boston tunnel. E: Dana. il plan Elec Ry J 63:61-2 Ja 12 '24
Rider comfort features in interurban car. il diag Elec Ry J 63:931-3 Je 14 '24
Southern railway—new electric stock. il Engineer 140:44 Jl 10 '25
Spring platforms between rapid transit cars. il Elec Ry J 66:828 N 7 '25

See also Car cleaning; Car doors; Car fenders; Car heating; Car houses; Car lighting; Car painting; Car seats; Car springs; Car trucks; Car wheels; Cars, Subway; Street cars

Articulated cars

Articulated cars are proving their efficiency. A. W. Baker. Aera 14:538-42 O '25
Articulated cars in subway service. C. W. Squier. il diag plan Elec Ry J 66:425-8, 773-8 S 19, O 31 '25
Baltimore puts an articulated car in service. il Aera 13:810-12 D '24
Brooklyn's duplex car placed in service. il diags Elec Ry J 63:252-5 F 16 '24; Aera 12: 1350-1 Mr '24
Cars for rapid transit mass transportation. W: G. Gove. il Elec Ry J 66:16-18 Jl 4 '25; Same cond. Ry Age 79:95-6 Jl 11 '25
Sample articulated car built for Chicago surface lines. il diags Elec Ry J 66:191-4 Ag 8 '25
Three-car articulated train for Detroit. A. C. Colby. il diags Elec Ry J 63:357-62 Mr 8 '24; Same. Gen Elec R 27:441-8 Jl '24
Triplex car for Brooklyn demonstrated. il Elec Ry J 66:373 S 5 '25

Bearings

Roller bearings for electric cars in Germany. diag Elec Ry J 64:317 Ag 30 '24
Survey of armature, axle and journal bearing practice. il Elec Ry J 64:227-35, 725-9 Ag 16, O 25 '24
Truck and bearing practice. C. Harmel. Elec Ry J 64:319-20 Ag 30 '24

See also Electric motors, Railway—Bearings

Lubrication

Cleansing waste and separating oil. R. W. Bailey. il diag Elec Ry J 66:439-41 S 19 '25
Lubricating practice for electric cars. il Elec Ry J 63:763-6 My 17 '24

Repair

Repairing motor trucks for subway and elevated railways. F. H. Colvin. Am Mach 61:483-5 N 27 '24

CARS, Freight. See Freight cars

CARS, Inspection
Track inspection on the Erie R.R. il diags plan Ry R 74:503-8 Mr 15 '24

CARS, Observation. See Observation cars

CARS, Section
New design of section and gang motor car. il Ry R 76:477-9 Mr 7 '25
New section motor car. il Ry R 75:484 S 27 '24
New type section car designed for use on the D., T and I. il Ry R 77:342 S 5 '25
Pennsylvania railroad compiling data on use of section motor cars. Ry R 76:397 F 28 '25
Piston designed for gasoline rail car service. il Ry Mech Eng 99:303-4 My '25

Records

Keeping a record of section motor car performance. C: Weiss. Ry R 76:344-5 F 21 '25

Testing

Scientific test for motor cars. il Ry R 76:459-62 Mr 7 '25

CARS, Steel
Boston & Albany acquires light suburban cars. il plan Ry Age 78:935-6 Ap 11 '25; Same. Ry Mech Eng 99:277-9 My '25
Light weight suburban coaches, Boston & Albany R.R. il plans Ry R 76:1110-11 Je 13 '25
Die neuen eisernen personenwagen für die chilenische staatsbahn. Strecker. il diags Zeit Ver Deutsch Ing 68:469-71 My 10 '24
New passenger equipment for the T. H. & B. il Ry Mech Eng 98:422-4 Jl '24
Observation cars for the Union Pacific system. il diags plans Ry R 74:753-7 Ap 26 '24
Railroads oppose steel car bill. Ry Age 76: 830 Mr 29 '24
Relief effected by train operation in East Boston tunnel. E: Dana. il plan Elec Ry J 63:61-2 Ja 12 '24
Rustproofing of materials. M. E. McDonnell. il Mech Eng 47:875-80 N '25; Same cond. Ry Age 79:849-52 N 7 '25
Santa Fe superintendent's all-steel business car. il diags Ry R 76:373-7 F 28 '25
Steel car equipment in mill service. il Ry R 76:141-3 Ja 17 '25
Steel suburban cars for Missouri Pacific. il diags plan Ry Mech Eng 98:220-2 Ap '24
Suburban cars for the D.L. & W. il plan Ry Age 78:843-5 Mr 28 '25; Ry Mech Eng 99: 223-6 Ap '25

See also Freight cars, Steel

CARS, Steel—*Continued*

Design

Passenger car equipment, Canadian National Rys il diags plans Ry R 75:757-61 N 8 '24
Shearing stress in passenger car side girders. W. J. Meyer. diags Ry Mech Eng 98:604-8 O '24

Repair

Car straightening device. il diag Elec Ry J 63:261 F 16 '24
Handbook of steel car repairs. E. W. Hartough. 292p Simmons-Boardman '25
Maintenance of steel cars. J. A. Roberts. il plan Ry Mech Eng 99:226-8 Ap '25
Portable forge for heating rivets. diags Ry Mech Eng 99:228-9 Ap '25
Steel car straightening frame. il Ry R 75: 1028-30 D 27 '24
Straightener for damaged steel cars. P. V. C. See. il diags Elec Ry J 63:186 F 2 '24

Weight

Cutting down the weight of passenger coaches. W. J. Tollerton. Ry Age 78:1444-5 Je 13 '25

CARS, Subway

Articulated cars in subway service. C. W. Squier. il diag plan Elec Ry J 66:425-8 S 19 '25
Modern subway cars and their operation. S. Haar. Aera 12:969-78 Ja '24; Same. Engineering 117:127-8 Ja 25 '24
Multiple-unit door control on the Interborough subway trains. il diags Elec Ry J 66:433-9 S 19 '25
Subway car design topic at A. S. M. E. meeting. Elec Ry J 62:1021-2 D 15 '23

Repair

Action car repair shops of the London underground railways. il diags Engineering 117: 195-202, 208, 229-34, 240, pl 10-13 F 15-22 '24; Abstracts. Elec R (Lond) 94:379-83 Mr 7 '24; Electrician 92:192-4 F 15 '24; Engineer 137:172-4, 176 F 15 '24
Babbitting brasses for subway trains. F. H. Colvin. il Am Mach 60:629-30 Ap 24 '24
Keeping subway trains on schedule. F. H. Colvin. il Am Mach 60:491-3, 587-9 Ap 3, 17 '24

CARS, Superintendents'

Santa Fe superintendent's all-steel business car. il diags Ry R 76:373-7 F 28 '25

CARSTAIRS, J. H.

House of J. H. Carstairs, Ardmore, Pa. il Arch Forum 42:213-18, pl 48-50 Ap '25

CARTELS. See Trusts, Industrial

CARTER, Robert Anderson

Robert A. Carter was New York's rate expert. R. E. Livingston. por Gas Age 53:233-4 F 23 '24

CARTOONS. See Advertisements, Pictorial—Cartoons; Caricatures and cartoons

CARTRIDGE-bag cloth

Study of silk waste used for cartridge-bag cloth, with an appendix on the general classification of waste silk. F. R. McGowan, C: W. Schoffstall and A. A. Mercier. il U S Bur Stand Tech Pa 268:567-94 '24

CARTRIDGE cases

Manufacturing cartridge tanks. R. S. Morecock. il diags Mach 32:206-9 N '25

CARVACRYLAMINE

Para-cymene studies; the bromination of 2-amino-para-cymene and certain new azo dyes. A. S. Wheeler and H. M. Taylor. Am Chem Soc J 47:178-84 Ja '25

CASALE, Luigi

British interest in the Casale ammonia process. Chem Age (Lond) 12:450-1 My 9 '25

CASE hardening

Carbonex case-hardening process. il Cassier's Ind Management 12:422 Ag '25
Carburization and case-hardening; abstract. W. E. Day, jr. Mech Eng 47:916 N '25
Case carburizing and hardening valve motion parts. J. E. Burns, jr. il Ry Mech Eng 99: 231-4 Ap '25
Case hardening. E. A. Leask. Gas J (Lond) sup 4:62-3 Mr 25 '25
Case-hardening and fatigue resistance. J: Miller. il diag Iron Age 113:1269-71 My 1 '24
Casehardening in a railway shop. C. H. French. diag Am Mach 61:4 Jl 3 '24
Casehardening machine parts. A. R. Knapp. Power 59:651-2 Ap 22 '24
Case-hardening of steel by boron and nitrogen. T. P. Campbell and H: Fay. il diags Ind & Eng Chem 16:719-23 Jl '24
Development of a novel cyanide hardening process. C: Ringstrom. il diags Gas Age 53:871-3 Je 21 '24
Gas furnace installations; abstract. H. R. Hems. Chem Age (Lond) 10:516 My 17 '24
Gases evolved during carburization. V: E. Hillman. diag Iron Age 114:611-14 S 11 '24
Handling work in hardening baths; equipment for hardening work in cyanide and lead baths. C. T. Ketz. diags Mach 31: 703-4 My '25
Heat treating—its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. il Iron Tr R 74:172+, 1434-7, 1560-2, 1687-9; 75:105-7, 223-5 Ja 10, My 29, Je 12, 26, Jl 10, 24 '24
Heat treating machine parts. E. F. Ross. il Iron Tr R 76:341-3 Ja 29 '25
Irregular carburization of iron and iron alloys—the cause and prevention. W. J. Merten. Am Mach 63:503-4 S 24 '25; Abstract. Iron Age 116:809+ S 24 '25
New cyanide hardening process in Chicago shops. diags Elec Ry J 65:337 F 28 '25
Nitrogen process for surface hardening. A. Fry. Engineer 140:sup140-1 S 25 '25
Occurrence of grain growth in steel. A. A. Blue. il Iron Age 113:716-18, 1271-3 Mr 6, My 1 '24
Prevention of case-hardening by copper plating. J. C. McCullough and O. M. Reiff. il Ind & Eng Chem 16:611-13 Je '24
Tentative recommended practice for carburizing and heat treatment of carburized objects. Iron Tr R 77:5-7 Jl 2 '25
Wärmebehandlung bei der einsatzhärtung. F. Brüsewitz. Stahl & Eisen 44:1697-8, pl 12 D 18 '24

See also Steel, Hardening of

Cost

Electric heat-treating costs. il Elec W 84:1060-1 N 15 '24

CASE plow works company

Reorganization plan. Comm & Fin Chr 120: 3191 Je 20 '25

CASEIN

Articles from casein; patent. Chem Age 32: 472 N '24
Casein and its industrial applications. bibliog Soc Chem Ind J (Chem & Ind) 44:986-95, 1009-11 O 9-16 '25; Same abr. Can Chem & Met 9:203-5, 221-5 S-O '25
Casein and its products. Sci Am 131:364+ N '24
Casein maker declares U.S. industry adequate. Oil Paint & Drug Rep 106:19 Jl 14 '24
Chemistry of casein. L. L. Van Slyke. Chem Age 32:163-5 Ap '24
Liberation of carbon dioxide, ammonia and amino nitrogen from casein by acid hydrolysis. M. S. Dunn. Am Chem Soc J 47: 2564-8 O '25
Surface concentration of casein crystalline egg-albumin and crystalline haemoglobin. J. M. Johlin. J Phys Chem 29:897-913 Ag '25

CASEIN glue. See Glue

CASH and carry system

Cash-and-carry hits the wholesale field. Ptr Ink 127:10+ My 22 '24
New help for the nationally advertised line; cash-and-carry wholesaler. Ptr Ink 128:3-4+ Jl 31 '24

CASH records. See Accounting

CASH registers

Manufacture

Drilling parts for cash registers. L. S. Love. il Iron Age 115:1113-17 Ap 16 '25

Manufacturing methods in making the National cash register. L. S. Love. il Iron Age 112:531-2, 677-81, 1105-9, 1639-43 Ag 30, S 13, O 25, D 20 '23

CASHMERE

Combing camel hair and cashmere. diag Textile World 65:1735+ Mr 8 '24

CASKETS. See Coffins

CASSIA oil

Utilization of cassia oil for the synthesis of cinnamyl alcohol. A. J. Hill and E. H. Nason. Am Chem Soc J 46:2236-46 O '24

CASSINA

Advertising opportunities that abound in the waste products of industry; help afforded at Washington. Ptr Ink 126:98+ Mr 20 '24

CAST iron

Acid decomposes cast iron. il Foundry 52:231-2 Mr 15 '24

Annealing large castings to prevent distortion. J. A. Capp. il Am Mach 63:385-7 S 3 '25

Der aufbau hochwertigen grauen gusseisens in seiner beziehung zur chemischen zusammensetzung und zu den mechanischen eigenschaften. R. Kühnel. Stahl & Eisen 45:1461-6 Ag 27 '25

Bending iron castings. D. A. Hampson. Am Mach 61:354 Ag 28 '24

British quiz scientist on pearlitic iron properties. Foundry 53:148-9 F 15 '25

Carbon control gages strength. J. Ward. diags Foundry 53:281-2 Ap 1 '25; Same. Iron Tr R 76:944-5 Ap 9 '25

Cast iron alloyed with nickel. P. D. Merica. Foundry 52:131-3 F 15 '24; Same. Iron Tr R 74:555-6 F 21 '24

Cast iron chemical equipment. D. W. Sowers. Chem Age 32:386 S '24

Cast iron; its constituents and relationship. Ry R 76:949-50 My 23 '25

Controlling gray iron qualities. J. Ward. il Foundry 53:186-8 Mr 1 '25

Cut time of malleable anneal. il chart diag Foundry 52:43-50 Ja 15 '24

Cutting cast-iron and copper alloys by the electric arc process. A. G. Bissell. il Mach 31:445-6 F '25

Cutting tools made of cast iron. H. A. Freeman. diag Mach 31:129 O '24

Determination of the density of liquid cast iron. H. A. Schwartz. il diag Ind & Eng Chem 17:647-9 Je '25

Dilatation of cast irons during repeated heating and cooling. J. H. Andrew and R. Higgins. il Engineering 120:399-402 S 25 '25

Discuss heat treatment of cast iron. Foundry 53:266 Ap 1 '25; Iron Age 115:832 Mr 19 '25; Iron Tr R 76:787 Mr 19 '25

Effects of uranium on cast iron. H. S. Foote. Foundry 52:105 F 1 '24

Embrittlement of malleable cast iron resulting from heat treatment. L. H. Marshall. U S Bur Stand Tech Pa 245:677-93 '23

Enameling defects due to cast iron. A. I. Krynitsky. il Am Cer Soc J 8:618-22 O '25

Enameling defects due to the cast iron. A. Malinovszky. il Am Cer Soc J 8:72-8 Ja '25

Examines mass effect on iron. O. Smalley. diags Iron Tr R 73:1724-7 D 27 '23

Factors influencing the machineability of cast iron. J: W. Bolton. il diag Mach 31:533-5 Mr '25

Das gefüge hochwertigen grauen gusseisens. R. Kühnel and E. Nesemann. il Stahl & Eisen 44:1042-4 Ag 28 '24

Das graphiteutektikum im gusseisen. E. Schüz. Stahl & Eisen 45:144-7, pl 4 Ja 29 '25

Graphitic softening of cast iron. J. W. Shipley and I. R. McHaffie. il Ind & Eng Chem 16:573-5 Je '24

Gray iron made in electric furnaces. Iron Age 114:914+ O 9 '24

Grey iron; some notes on its use for automobile castings. H. B. Swan. Automobile Eng 14:172-4 Je '24

Die gusseisenveredelung durch legierungszusätze. E. Piwowarsky. il Stahl & Eisen 45:289-97 F 26 '25

Gusseiserne rauchgas-vorwärmer für niedrigen und hohen druck. il diags Zeit Ver Deutsch Ing 68:609-10 Je 7 '24

Hardness governs machinability. J. Ward. il diags Foundry 53:684-7 S 1 '25

Heat transfer in cast iron radiator sections for ammonia. H. J. MacIntire. il Refrig Eng 11:195-7; Discussion. 197-9+ D '24

Heat transmission in jacketed kettles; a comparative study of over-all coefficients of heat transmission in cast-iron, lead-lined and copper steam-jacketed kettles. H. L. Olin, B. S. Southwick and H. M. Prince. il Chem & Met Eng 32:370-2 Mr '25

Heat treating malleable castings prior to galvanizing. M. Epstein. il diag Foundry 53: 741-2 S 15 '25

Heat treatment of cast iron. J. W. Donaldson. Iron Age 113:1859-61 Je 26 '24

Heat treatment of gray cast iron. J. W. Bolton. il Iron Age 114:820-2 O 2 '24

High-temperature growth of special cast irons. J. H. Andrew and H. Hyman. Iron & Steel Inst J 109:451-60, pl 27-8; Discussion. 461-3 no 1 '24

How Africans made iron in 1795. Iron Tr R 76:1122 Ap 30 '25

How metals stand up against corrosion. Chem & Met Eng 31:70-1 Jl 14 '24

How to purchase malleable castings; abstracts. H. A. Schwartz. Ry Age 78:1465-6 Je 13 '25; Iron Age 115:1727 Je 11 '25

Influence of nickel and chromium upon gray and malleable cast iron. L. Northcott. Foundry 53:241 Mr 15 '25

Lauds pearlitic cast iron. C. Irresberger. il Foundry 52:941-3 D 1 '24

Magnetic and electrical properties of cast iron; abstracts. J. H. Partridge. Engineering 120:402 S 25 '25; Elec R (Lond) 97:554-5 O 2 '25

Magnetic properties of cast iron. H. O'Neill. bibliog Electrician 95:152+ Ag 7 '25

Makes black heart malleable. R. Gailly. Foundry 51:826-7 O 15 '23; Same. Iron Tr R 73:1734-5 D 27 '23

Malleable and cast iron; report of Committee A-7. Iron Age 114:14-15 Jl 3 '24

Malleable casting problems. Iron Age 114:1055-6 O 23 '24

Mechanism for the graphitization of white cast iron and its application to the malleablization process. A. Hayes and W. J. Diederichs. bibliog Iowa State College of Agric and Mechanic Arts Eng Exp Sta Bul 71:1-45 '24

Ein neuer ofen bauart Wüst zur veredelung von qualitätsguss. T. Klingenstein. diags Stahl & Eisen 45:1476-8, pl 10 Ag 27 '25; Abstract. Engineer 140:sup154-5 O 30 '25

New but simple method for changing cast iron into steel. il Sci Am 130:334 My '24

New method of making gray iron castings. il Engineer 139:sup9-11 Ja 30 '25

Nickel and nickel-chromium in cast iron; abstract. T. H. Wickenden and J. S. Vanick. Iron Age 116:1037-8 O 15 '25

Nickel in cast iron. Mach 30:668 My '24

Pearlitic cast iron. C. Sipp. Foundry 51:986-7 D 15 '23

Peeling in white-heart malleable. D. H. Ingall and H. Field. diags Iron & Steel Inst J 111:265-78, pl 31 no 1 25; Same. Foundry 53:618-21 Ag 1 '25; Same cond. Engineering 119:654-5 My 22 '25; Abstract. Engineer 139: 566 My 22 '25; Discussion. Iron & Steel Inst J 111:279-83 no 1 '25; Engineering 119:633 My 22 '25; Engineer 139:566 My 22 '25; Iron Age 115:1569+ My 28 '25

Perlitguss. K: Emmel. il Stahl & Eisen 44: 330-3 Mr 27 '24; Abstract. Mech Eng 46:352-3 Je '24; Discussion. Stahl & Eisen 44:753-8 Je 26 '24

Physical factors affect iron. J. H. Hopp. Foundry 52:11-12 Ja 1 '24

Pliable cast iron—the impossible accomplished. Eng & Contr (Ry) 62:115 Jl 16 '24

CAST iron—*Continued*
Possibilities of producing malleable iron and intermediate products of value in short annealing periods. A. Hayes and W. J. Diederichs. Iron Age 113:1797+ Je 19 '24
Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. il diags Mech Eng 47:735-42 [bibliog. p. 742] S '25
Properties of cast iron. E. Touceda. il Foundry 52:345-7 My 1 '24; Same. Iron Tr R 74:1244-6 My 8 '24
Properties of pearlitic iron. V. Delport. Foundry 52:907-8 N 15 '24
Quality of gray iron. E. Touceda. Iron Age 112:1596 D 13 '23
Quelques remarques au sujet des analyses de fonte. G. Batta. il Chimie & Ind 13:195-8 F '25
Radical change in the heat treatment of cast iron. R: W. Edmonds. Manuf Rec 85: 105-6 Ap 3 '24
Recent progress in cast iron. Fontoid. Iron Age 116:752 S 17 '25
Refining metals electrically. L. J. Barton. Foundry 53:493-7, 519-21 Je 15-Jl 1 '25
Semimalleable cast iron. Foundry 53:668 Ag 15 '25
Session on malleable cast iron at A.F.A. meeting. Foundry 52:843-4 N 1 '24
Shop laboratory that improves the product; the metallurgical laboratory at the Niles tool works. C: O. Herb. il Mach 31:1-3 S '24
Short-time malleableizing of cast iron. H. A. Schwartz. Mech Eng 47:623 Ag '25; Same. Foundry 53:665 Ag 15 '25
Structural segregation in gray iron. J. A. Bolton. il Iron Age 114:685-9 S 18 '24
Structures of gray iron and semi-steel. J. W. Bolton. il Iron Age 113:47-9, 155-7 Ja 3-10 '24
Studies growth of gray iron. T. E. Hull. Foundry 52:253-4 Ap 1 '24
Study structure of gray iron. J. W. Bolton. il diags Foundry 52:628-34 Ag 15 '24; Same. Iron Tr R 75:544-50 Ag 28 '24
Temperature affects structure of iron; discussion at Institute of British foundrymen 22d convention, Glasgow, June 10-12. Iron Tr R 76:1671-3 Je 25 '25
Tin slightly detrimental to cast iron. C. E. Williams, C. E. Sims and C. A. Newhall. Foundry 52:5 Ja 1 '24
Traffic signal systems use many castings. F. G. Steinebach. il Foundry 53:783-6+ O 1 '25
Tying gray or white cast iron in knots. B. Stoughton. il Iron Age 113:15-21 Ja 3 '24
Typical analyses of miscellaneous commodities used in foundry practice. J. M. Quinn. Foundry 53:18a Ja 1 '25
Ueber das wachsen von graueisen. P. Oberhoffer and E. Piwowarsky. diags Stahl & Eisen 45:1173-8, pl 4 Jl 9 '25
Ueber das weichglühen von grauguss. E. Schüz. il Stahl & Eisen 44:116-18 Ja 31 '24
Ueber den einfluss der temperatur auf die graphitbildung im roh- und gusseisen. E. Piwowarsky. Stahl & Eisen 45:1455-61 Ag 27 '25
Ueber ein gusseisen-diagramm. H. Jungbluth. Stahl & Eisen 44:1522-4 N 27 '24
Ueber titan im grauguss. E. Piwowarsky. il Stahl & Eisen 43:1491-4 D 6 '23
Untersuchungen von gattierungen mit gussbriketts, verrosteten und unverrosteten stahlbriketts. O. Lechner. diag Stahl & Eisen 45:1802-9, pl 12-13 O 29 '25
Wärmebehandlung von gusseisen. E. Schüz. Stahl & Eisen 45:841-2 My 28 '25
Wege und ziele zur veredelung von gusseisen. P. Goerens. diags Stahl & Eisen 45:137-40, pl 2 Ja 29 '25
Wet-process enamels for cast iron. R. R. Danielson and H. P. Reinecker. U S Bur Stand Tech Pa 246:695-735 '23; Abstract. J Fr Inst 197:401-3 Mr '24
White iron for grinder disks. G: A. Drysdale. Foundry 52:591-2 Ag 1 '24

See also Car wheels; Chilled iron; Corrosion and anti-corrosives; Foundry practice; Iron; Iron founding; Iron metallurgy; Molds, Cast iron; Pig iron; Semi-steel

Analysis
Determination of manganese in iron; Deshay's method. Foundry 52:472a Je 15 '24

Shrinkage
Beitrag zur analyse des schwindungsvorganges von weissen und grauem gusseisen. P: Bardenheuer and C. Ebbefeld. diags Stahl & Eisen 45:825-34, 1022-7 My 28, Je 25 '25
Die schwindung des tempergusses. E. Schüz. diags Stahl & Eisen 45:1189-95, pl 5 Jl 9 '25

Specifications
Buying equipment on specification. W. Weaver. Power 59:535 Ap 1 '24
Some reasons why chemical specifications of cast iron are undesirable. R: Moldenke. Coal Age 25:289 F 21 '24
Topical discussion: is it desirable to include chemical requirements in specifications for cast iron? Am Soc T M Pro 23 pt 2:40-55 '23

Standards
Making a reputation for quality; American malleable castings association. W: C. Lyon. Nation's Business 12:64+ My '24

Testing
Physical tests for grey iron. J. Shaw. Engineering 116:755-6 D 14 '23; Abstract. Foundry 52:306 Ap 15 '24
Das prüfen von gussstücken. C. Irresberger. diags Stahl & Eisen 45:839-40 My 28 '25
Recent investigations on cast iron for pipe. R: Moldenke. Am Soc T M Pro 24 pt 2: 682-705; Discussion. 706-16 '24
Standard test bar for cast-iron pipe with special reference to its progressive deflection. J. T. MacKenzie. il Am Soc T M Pro 24 pt 2:664-81; Discussion. 706-16 '24
Strength of cast iron and its thickness. W. Rother. il Iron Age 114:326-7 Ag 7 '24
Test bars, coke and charcoal pig iron. Iron Age 114:1106-7 O 23 '24
Transverse test-bars and engineering formulae. G. S. Bell and C. H. Adamson. diag Iron & Steel Inst J 109:347-61, pl 16-17a; Discussion. 362-76 no 1 '24
Ueber hartguss. P. Goerens and H. Jungbluth. diags Stahl & Eisen 45:1110-17 Jl 9 '25
Das verhalten von eisen, rotguss und messing in salzhaltigen wässern bei gewöhnlicher temperatur und bei den im dampfkessel herrschenden temperaturen und drücken. O. Bauer. il diags Stahl & Eisen 45:1101-9 Jl 8 '25

Welding
Arc-welding cast iron without preheating. C. J. Holslag. Mach 30:392 Ja '24
Beiträge zur kenntnis der vorgänge bei der schmelzschweissung von grauguss mittels azetylens. F. Politz. Stahl & Eisen 45:653-8 Ap 30 '25
One man welds ton of castings daily. Foundry 52:541 Jl 15 '24
Production welding on cylinder blocks. Foundry 52:908 N 15 '24
Über elektrische schweissung; lichtbogenschweissung von flusseisen. H. Neese. il Zeit Ver Deutsch Ing 68:1125-32 O 25 '24
Welding cast or malleable iron; Abele welding compound. A. H. Jansson. il diags Iron Tr R 74:1632-3 Je 19 '24; Same. Foundry 52: 442-3 Je 1 '24
Welding large iron castings with the oxy-acetylene torch. il Elec Ry J 63:245-6 F 16 '24

CASTERS
Roller skates for men and equipment. il Factory 34:272-3 F '25
Truck casters. Textile World 65:1603-4 Mr 1 '24

CASTIGLIANO'S theorem
Experimental verification of Castigliano's principle of least work and of a theorem relating to the torsion of a tubular framework. A. J. S. Pippard and J. F. Baker. il diags Philos Mag 6th ser 50:97-112 Jl '25

CASTIGLIONI, Camillo
Rise and fall of the Austrian plunger Castiglioni. G. Stolper. Econ W n s 28:796-9 D 6 '24

CASTING
Casting control. A. C. Gerber. Am Cer Soc J 8:18-22 Ja '25
Symposium on casting problems. Am Cer Soc J 8:565-98 S '25

See also Aluminum founding; Brass founding; Foundry practice; Iron founding; Steel castings

CASTING, Centrifugal
Advantages and disadvantages of spiral cast iron pipe made by the centrifugal process. Am Gas Assn Technical sec v 6:1214-17 '24
Cast iron pipe manufacture in the South. R: Moldenke. Iron Age 114:697-8 S 18 '24; Same. Iron Tr R 75:1309-10 N 13 '24
Cast pipe centrifugally in sand molds. Iron Tr R 74:1516 Je 5 '24; Eng N 92:1078 Je 19 '24; Iron Age 113:1660 Je 5 '24; Can Eng 47: 182 Jl 22 '24
Casting iron centrifugally. J: A. Rathbone. diags Foundry 51:988-90 D 15 '23
Centrifugal cast pipe; the Henry-Weitling-Peake process. Iron Age 114:1674 D 25 '24
Centrifugal casting calculations. R. F. Wood. Metal Ind 23:186-9 My '25
Centrifugal casting of large diameter pipes. il diags Engineer 139:416 Ap 10 '25
Centrifugal castings foundry at Sheepbridge, England. Iron Tr R 75:420 Ag 14 '24
Centrifugal process of pipe manufacture. E. J. Fox and P. H. Wilson. Gas J (Lond) 164:511 N 21 '23
Centrifugally-cast reinforced-concrete water pipe. W. G. Chace. il diags Can Eng 45: 489-91 N 13 '23
Complex centrifugal castings. R. L. Binney and N. I. Terbille. il diag Foundry 52:340-3 My 1 '24
Continuous casting; notes on the Holley process. il Automobile Eng 15:306 S '25
Large diameter centrifugal pipe. J. E. Hurst. il Iron Age 115:1704-6 Je 11 '25
Neuerungen auf dem gebiete des schleudergusses. C. Pardun. Stahl & Eisen 45:1178-80 Jl 9 '25
Sandspun pipe. C: R. Wood. N E Water Works Assn J 39:85-7; Discussion. 87-9 Mr '25
Sheet bars cast centrifugally. L. Cammen. il diags Iron Age 113:1857-8 Je 26 '24
Ueber die wissenschaftlichen grundlagen des schleudergusses. C. Pardun. diags Stahl & Eisen 44:905-11, 1044-8, 1200-8, pl 4 Jl 31, Ag 28, O 2 '24

CASTING, Die. See Die casting

CASTING machines
Casting lead alloys in endless strips. il Mach 30:610-12 Ap '24
La Follette improvements; pig casting machine at blast furnace. il Iron Age 113:1353 My 8 '24; Same. Iron Tr R 74:1368-9 My 22 '24
Schleudergiessmaschine für druckröhren. il Zeit Ver Deutsch Ing 69:79-80 Ja 17 '25
Ueber die wissenschaftlichen grundlagen des schleudergusses. C. Pardun. diags Stahl & Eisen 44:905-11 Jl 31 '24

See also Die casting machines

CASTINGS

Cleaning

Brings old plant up to date. P. Dwyer. il Foundry 53:512-14+ Jl 1 '25
Cleaning automobile castings. F. B. Jacobs. il Foundry 52:110-12 F 1 '24
Cleaning automobile castings. B. K. Price. il Foundry 52:355-7 My 1 '24
Cleaning iron castings hydraulically. C. B. Lockhart. il Iron Age 113:946-8 Mr 27 '24; Same. Foundry 52:568-9 Jl 15 '24
Cleaning small malleable castings. F. B. Jacobs. il Foundry 53:239-41 Mr 15 '25
Cutting cleaning room costs. il Iron Age 116: 1-4 Jl 2 '25
Device for cleaning castings. il Iron Age 113:1504 My 22 '24
Mechanical charging for a foundry cupola; hydraulic core remover. il Iron Age 114: 1397-8 N 27 '24
Neuzeitliche gusspulzerei. U. Lohse. diags Stahl & Eisen 45:1661-6 O 1 '25
Reducing costs of cleaning castings. J. H. Hopp. Iron Age 116:1167 O 29 '25
Sand blast mill for cleaning small pieces in quantity. il Iron Age 113:1862 Je 26 '24

Weight

Weights of castings; data sheets. L. H. Georger. Mach 30:762a, 934a Je, Ag '24

CASTINGS, Steel. See Steel castings

CASTLES
Details of small Louis XVI salon, Compiegne. diags plans Arch Forum 42:57-62 Ja '25
Details of the large hall Chateau de Montfermeil, Paris; drawn by C. H. Preston. il Arch Forum 41:81-6 Ag '24
Details of the salons, Chateau de Montfermeil, Paris; two simple interiors in the style of Louis XIV. C. H. Preston. diags Arch Forum 41:36-42 Jl '24
Vaux-le-Vicomte. P. H. Elwood, jr. il Am Arch 127:531-4 Je 17 '25

CASTLETON cut-off. See New York Central railroad

CASTOR oil
Castor oil as lubricant. J. B. Rathbun. Pet Age 15:48+ Je 15 '25
Determination of viscosities; redetermination of figures for castor oil. diags Chem Age (Lond) 11:347 O 4 '24
Dielectric constants of some liquids, and their variation with temperature. G. E. Bell and F. Y. Poynton. diags Philos Mag 6th ser 49:1065-72 My '25
Gas engine cylinder lubrication. Pet Age 14: 63 S 1 '24

CASTOR oil, Sulfonated
Softening agents for cotton. J. S. Wilson. Textile Col 46:645-6 O '24
Sulfonated castor oil. M. N. Conklin. Color Tr J 14:22-4 Ja '24

CASTS, Plaster. See Plaster casts

CASUALTY actuarial society
Educational work of the Casualty actuarial society. R: Fondiller. Special Lib 16:143-4 My '25
Survey of the present situation of the Casualty actuarial society. G. F. Michelbacher. Econ W n s 29:885-7 Je 20 '25

CASUALTY insurance. See Insurance, Casualty

CATALOGING
Cataloging an industrial research library. J. F. Smith. Special Lib 15:218-19 N '24
Cataloging and classifying. Special Lib 14:104-5 S '23
Guide to the cataloguing of periodicals. 3d ed. 23p U.S. Library of Congress, Catalog division, Washington, D.C. '25

See also Files and filing (documents); Indexing; Subject headings

CATALOGS
Address all letters to the firm; why Butler brothers have executed a turnabout. Ptr Ink 129:28 N 27 '24
Building a catalogue to feature long-profit lines. R. McDaniel. Ptr Ink M 11:88+ Jl '25
Catalogues that help small town dealers compete with city stores. W: R. Neisser. Ptr Ink M 11:69-70 S '25
Compiling a catalogue without standard units. I. J. Ketterer. il Ptg Art 45:143-7 Ap '25
Cutting catalogue costs. P. M. Jaques. Ptd Salesmanship 46:45-9 S '25
Education and sales promotion. F: L. Hoffman. il diags Ptg Art 42:561-7 F '24
Electrical retailer's catalogue. E. N. Simons. Elec R (Lond) 95:889-90 D 12 '24
Fixing the per item cost of catalogue advertising. R. W. Kellogg. Ptr Ink M 10:70+ Mr '25
Headings that encourage catalogue reading. W. E. Backus. Ptr Ink M 10:73-4 Ja '25

CATALOGS—*Continued*
Helping the merchant sell goods he won't stock. R. Crothers. Ptr Ink M 8:41-2 Ja '24
How elaborate shall we make our catalogue? Ptr Ink 132:89-90 S 3 '25
How should an industrial advertiser's catalogue be distributed? C. Tompkins. Ptr Ink M 11:126+ N '25
How the catalogue is meeting 1925 selling needs. G. A. Nichols. Ptr Ink 132:130+ Jl 2 '25
Loose-leaf catalogue has its weaknesses. Ptr Ink 131:33-4 Je 25 '25
Make the catalogue simplify the salesman's job; Stewart-Warner speedometer corporation. D. M. Hubbard. Ptr Ink 132:73-4+ Jl 30 '25
Maximum service from trade catalogs. L: A. Armistead. Elec W 83:599-600 Mr 22 '24
Pictures that put a sales hook in printed matter. D: H. Colcord. il Sales Management 6:947-8+ My '24
Plussing the retail sale without extra stocks; an understudy catalogue. D. Hubbard. Ptr Ink 128:81-4 Jl 31 '24
Preparation of export catalogues and price lists. J. P. Greer. Ptr Ink M 9:72+ N '24
Protest against catalogue penalization in postal bill. Ptr Ink 130:41-2+ Ja 22 '25
Report of sub-committee of the Trade catalog committee of S. L. A. Special Lib 14:112 S '23
Ridiculous remarks about the pulling power of color. Ptr Ink 131:20 My 7 '25
Selling the retailer by mail. Ptr Ink 133:117-18 N 5 '25
Shall we dress up the catalog in broadcloth or overalls? D: H. Colcord. il Sales Management 7:1315-16+ Jl '24
Use of trade literature. D: Autton. Electrician 93:104 Jl 25 '24
What can a catalogue do besides sell? G. A. Nichols. Ptr Ink M 8:22+ F '24
What kinds of catalogues are kept for reference? G: A. Chapman. il Ptr Ink M 8:62, 65-6 Ap '24
When list prices should not appear in catalogues. Ptr Ink 130:103-4 Ja 29 '25
Your catalogue—and the retailer. A. H. Van Voris. Ptr Ink 128:42+ Jl 31 '24

See also Salesmen's catalogs

Advertising

Getting productive distribution for industrial catalogues. A. L. Townsend. Ptr Ink 129: 129-31 D 18 '24

CATALOGS, Cooperative
How the retail co-operative catalogue plan works. Ptr Ink M 11:108+ N '25

CATALPO
Catalpo—a deflocculated clay. il India Rubber W 70:432 Ap '24

CATALUÑAN architecture. See Architecture, Spanish

CATALYSIS
Acid catalysis in lactone formation. H. S. Taylor and H. W. Close. J Phys Chem 29: 1085-98 S '25
Action of catalysts with nondrying oils. A: H. Gill. Ind & Eng Chem 16:23-4 Ja '24
Adsorption of catalytically poisonous metals by platinum; the adsorption of lead and mercury. E: B. Maxted. Chem Soc J 127: 73-7 Ja '25
Adsorption of vapors by metallic oxides—its bearing on the catalysis of ester formation. J. N. Pearce and A. M. Alvarado. diag J Phys Chem 29:256-70 Mr '25
Application of X-ray crystallometry to the structure of nickel catalysts. G: L. Clark, W. C. Asbury and R. M. Wick. il diag Am Chem Soc J 47:2661-71 N '25
Catalysis and the internal combustion engine. E: Sokal. Soc Chem Ind J 43:283-4 Ag 29 '24
Catalysis at solid surfaces. E. F. Armstrong and T. P. Hilditch. Soc Chem Ind J (Chem & Ind) 44:701-9 Jl 10 '25
Catalysis in acetal formation. E. W. Adams and H. Adkins. Am Chem Soc J 47:1358-67 My '25
Catalysis of doubtful utility in gas purification. A. C. Blackall. Gas Age 53:161 F 9 '24
Catalyst testing—the basis of new industries. D. H. Killeffer. il Ind & Eng Chem 17:789-92 Ag '25; Same, without il. Chem Age (Lond) 13:192-4 Ag 22 '25
Catalytic action of nitrous acid. W. D. Bancroft. J Phys Chem 28:973-83 S '24
Catalytic activity. C. O. Henke and O. W. Brown. J Phys Chem 28:71-3 Ja '24
Catalytic activity of carbons from aromatic hydrocarbons and some derivatives. W. Farmer and J. B. Firth. J Phys Chem 28:1136-46 N '24
Catalytic alkylation of ammonia. A. B. Brown and E. E. Reid. J Phys Chem 28:1067-76 O '24
Catalytic alkylation of aniline. A. B. Brown and E. E. Reid. Am Chem Soc J 46:1836-9 Ag '24
Catalytic combination of ethylene and hydrogen in the presence of metallic copper; carbon monoxide as a catalyst poison. R. N. Pease and L. Stewart. Am Chem Soc J 47:1235-40 My '25
Catalytic decomposition of hydrogen peroxide in an acid chlorine-chloride solution. R. S. Livingston and W: C. Bray. Am Chem Soc J 47:2069-82 Ag '25
Catalytic dehydration of alcohols. A. B. Brown and E. E. Reid. J Phys Chem 28:1077-81 O '24
Catalytic dehydration of ethyl alcohol and ether by alumina. R. N. Pease and C. C. Yung. diag Am Chem Soc J 46:390-403 F '24
Catalytic effects of the oxides of cerium and thorium, and their bearing on the theory of the Welsbach mantle. R: L. Swan. diag Chem Soc J 125:780-5 Ap '24
Catalytic hydrogenation of certain oils. L: Kahlenberg and Tsu Pei Pi. J Phys Chem 28:59-70 Ja '24
Catalytic racemisation of the diastereoisomeric 1-menthyl phenylbromoacetates. A. McKenzie and I. A. Smith. Chem Soc J 125: 1582-93 Ag '24
Catalytic transmutation of maleic acid into fumaric acid. E. M. Terry and L. Eichelberger. Am Chem Soc J 47:1402-12 My '25
Catalytic treatment of cracked distillates in the vapor phase. T. T. Gray and M. R. Mandelbaum. flow sheet diag Ind & Eng Chem 16:913-16 S '24
Catalyzed oxidation of galactose. E. O. Whittier. Ind & Eng Chem 16:744-5 Jl '24
Catalyzers for the oxidation of ammonia. W. W. Scott. il diag Ind & Eng Chem 16:74-82 Ja '24
Causation of organic reactions by alumina, and theories of catalysis. H. Adkins and B. H. Nissen. diag Am Chem Soc J 46: 130-45 Ja '24
Comparison between the homogeneous thermal decomposition of nitrous oxide and its heterogeneous catalytic decomposition on the surface of platinum. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 127:327-36 F '25
Condensation of acetylene and hydrogen sulphide in presence of catalysts. M. G. Tomkinson. Chem Soc J 125:2264-6 N '24
Contact catalysis and photochemistry. W. D. Bancroft. Ind & Eng Chem 16:270-1 Mr '24
Critical potentials of hydrogen in the presence of nickel catalyst. A. W. Gauger. diag Am Chem Soc J 46:674-80 Mr '24
Décomposition catalytique de l'alcool éthylique en présence d'alumine. J. E. Goris. Chimie & Ind 11:449-52 Mr '24
Decomposition of potassium chlorate and its catalysis by potassium chloride. C. E. Otto and H. S. Fry. Am Chem Soc J 46:269-76 F '24
Dehydrogenation and dehydration of alcohols over a zinc oxide catalyst. W. A. Lazier and H. Adkins. Am Chem Soc J 47: 1719-22 Je '25
Effect of water and of carbon dioxide on the catalytic oxidation of carbon monoxide and hydrogen by oxygen. A. B. Lamb and W. E. Vail. diags Am Chem Soc J 47:123-42 Ja '25

CATALYSIS—*Continued*

Les enseignements du dernier congrès de motoculture et des carburants nationaux. A. Guiselin. diags Soc Ing Civils Bul 78:73-151, pl 88 Ja '25

La fabrication des carburants synthétiques aux dépens des mélanges de carbone et d'hydrogène. E. Audibert. Chimie & Ind 13: 186-94 F '25

Ferrous selenide as a contact catalyst for cracking. T: Midgley, jr. and C. A. Hochwalt. Ind & Eng Chem 16:365-6 Ap '24

Heterogeneous catalysis. A. S. Richardson, C. A. Knuth and C. H. Milligan. Ind & Eng Chem 16:519-22; 17:80-3 My '24, Ja '25

L'hydrogenation catalytique des composés organiques à l'état liquide. E. F. Armstrong and T. P. Hilditch. Chimie & Ind 12:207-11 Ag '24

Hydrogenation of vegetable and marine oils by a continuous process. R. A. Bellwood. Chem Age (Lond) 12:222-4 Mr 7 '25

Increasing ammonia production with improved catalysis. A. T. Larson. Ind & Eng Chem 16:1002-4 O '24; Same. Chem Age (Lond) 11:463-4 N 8 '24

Influence of catalysts on carbonisation. R. Lessing and M. A. L. Banks. Chem Soc J 125:2344-55 N '24; Abstracts. Am Gas J 121: 1231 N 29 '24; Chem Age (Lond) 11:422 O 25 '24; Gas J (Lond) 168:224 O 22 '24

Influence of catalysts on the production of potassium perchlorate by the action of heat on potassium chlorate. W. Farmer and J. B. Firth. Chem Soc J 125:82-7 Ja '24

Influence of reaction rate on operating conditions in contact sulfuric acid manufacture. W. K. Lewis and E. D. Ries. diags Ind & Eng Chem 17:593-8 Je '25

Irreversible reduction and catalytic hydrogenation. J. B. Conant and H. B. Cutter. J Phys Chem 28:1096-1107 O '24

Leucoplasts: living, reproducing, perfect chemical catalysts. E. J. Witzemann. J Phys Chem 28:305-12 Ap '24

Manganese dioxide in the catalytic oxidation of carbon monoxide. W. A. Whitesell and J. C. W. Frazer. Am Chem Soc J 45:2841-51 D '23

Mechanism of the action of promoters in catalysis. M. C. Boswell and C. H. Bayley. J Phys Chem 29:679-92 Je '25

Mechanism of the inhibition of the catalytic action of platinum black and partially reduced nickel oxide by chlorine. M. C. Boswell and C. H. Bayley. J Phys Chem 29:11-19 Ja '25

Methane by catalysis from CO in blue water gas. R. T. Haslam and H. O. Forrest. bibliog Gas Age 52:615-18+ N 17 '23

Negative and positive catalysis and the activation of molecules. N. R. Dhar. J Phys Chem 28:948-61 S '24

Negative catalysis. J. A. Christiansen. J Phys Chem 28:145-8 F '24

New catalytic effects of zinc chloride and aluminium chloride. J. F. Norris. Ind & Eng Chem 16:184 F '24

New purifying processes. Gas Age 52:619-20 N 17 '23

Une nouvelle conquête de la catalyse sous pression: la production industrielle de l'alcool méthylique de synthèse. G. Patart. il diags Chimie & Ind 13:179-85 F '25; Abstract. Génie Civil 86:442-3 My 2 '25

Organic reactions at the surface of titania; adsorption of certain gases by titania. F. Bischoff and H. Adkins. Am Chem Soc J 47:807-26 Mr '25

Organic reactions at the surfaces of dehydrogenating catalysts. H. Adkins and W. A. Lazier. Am Chem Soc J 46:2291-2305 O '24

Periodic catalytic decomposition of hydrogen peroxide. E. S. Hedges and J. E. Myers. Chem Soc J 125:1282-7 Je '24

Periodic dissolution of metals in certain reagents. E. S. Hedges and J. E. Myers. il diag Chem Soc J 125:604-26 Mr '24

Physical state of catalysis. R. C. Smith. J Phys Chem 29:1116-18 S '25

Platinum and palladium oxides as catalysts in the reduction of organic compounds; the reduction of olefins. J. W. Kern, R. L. Shriner and R. Adams. Am Chem Soc J 47:1147-58 Ap '25

Platinum oxide as a catalyst in the reduction of organic compounds; a study of the effects of numerous substances on the platinum catalysis of the reduction of benzaldehyde. W. H. Carothers and R. Adams. Am Chem Soc J 47:1047-63 Ap '25

Platinum oxide as a catalyst in the reduction of organic compounds; reduction of aminophenols to cyclic amino-alcohols. H. Heckel and R. Adams. Am Chem Soc J 47:1712-18 Je '25

Platinum oxide as a catalyst in the reduction of organic compounds; the preparation of primary alcohols by the catalytic hydrogenation of aldehydes. W. H. Carothers and R. Adams. Am Chem Soc J 46:1675-83 Jl '24

Platinum oxide as a catalyst in the reduction of organic compounds; the reduction of alkyl furyl carbinols. J. S. Pierce and R. Adams. Am Chem Soc J 47:1098-1104 Ap '25

Preparation of fused iron oxide for use as a catalyst. A. T. Larson and C. N. Richardson. diags Ind & Eng Chem 17:971-2 S '25

Preparation of palladous oxide and its use as a catalyst in the reduction of organic compounds. R. L. Shriner and R. Adams. Am Chem Soc J 46:1683-93 Jl '24

Promoter action in homogeneous catalysis; mechanism of the promotion by copper salts in the catalytic decomposition of hydrogen peroxide by ferric salts. A. C. Robertson. Am Chem Soc J 47:1299-1314 My '25

Promoter action of thoria on nickel catalysts. W: W. Russell and H. S. Taylor. diags J Phys Chem 29:1325-41 O '25

Promoting action of palladium on copper; catalytic combustion. W: W. Hurst and E. K. Rideal. Chem Soc J 125:685-94 Mr '24

Promoting action of palladium on copper; the adsorption of hydrogen and carbon monoxide. W: W. Hurst and E. K. Rideal. diag Chem Soc J 125:694-705 Mr '24

Rapid method for the determination of heats of adsorption and some values for hydrogen on nickel and copper. R. A. Beebe and H. S. Taylor. diag Am Chem Soc J 46:43-52 Ja '24

Reaction of bromine with aliphatic acids; catalytic effect of acyl halides. H. B. Watson. Chem Soc J 127:2067-82 S '25

Relation of homogeneous to catalysed reactions; the catalytic decomposition of hydrogen iodide on the surface of gold. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 127:1552-9 Jl '25

Relative rates of catalytic hydrogenation of different types of unsaturated compounds; aliphatic ethylenic derivatives. S. V. Lebedev, G. G. Kobliansky and A. O. Yakubchik. Chem Soc J 127:417-40 F '25

Removal of carbon bisulphide by a nickel catalyst. E. V. Evans and H. Stanier. Soc Chem Ind J (Chem & Ind) 43:379 Ap 11 '24

Researches on sulphuryl chloride; the influence of catalysts on the chlorination of toluene. O. Silberrad, C: A. Silberrad and B. Parker. Chem Soc J 127:1724-31 Jl '25

Le rôle des catalyseurs. A. Mailhe. Génie Civil 86:192-3 F 21 '25

Second report of the committee on contact catalysis. W. D. Bancroft. J Phys Chem 27:801-941 D '23; Same. (Reprint & Circ. Ser. 50) p. 801-941 50c National research council, 1701 Massachusetts av, Washington, D.C.

Secondary kinetic salt effect in the case of hydroxyl-ion catalysis. J. N. Brönsted and C. V. King. diag Am Chem Soc J 47:2523-31 O '25

Simplicity of mechanism of reaction as one of the factors conditioning catalysis. E. R. Bullock. J Phys Chem 28:179-81 F '24

So-called poisoning of oxidising catalysts. C: Moureu and C: Dufraisse. Chem Soc J 127:1-4 Ja '25

CATALYSIS—*Continued*
Studies of electrovalency; the catalytic activation of molecules and the reaction of ethylene and bromine. R. G: W. Norrish. diags Chem Soc J 123:3006-18 N '23
Studies on catalysis; the behavior of the amino group when cytosine and nitro-uracil are reduced in the presence of colloidal platinum. E. B. Brown and T. B. Johnson. Am Chem Soc J 46:702-8 Mr '24
Study of the mechanism of the catalytic decomposition of ethyl acetate by nickel at various elevated temperatures. J. N. Pearce and C. N. Ott. J Phys Chem 28:1201-10 N '24
Surface catalysis. E. K. Rideal. Chem Age (Lond) 13:244-5 S 5 '25
Synthesis of water over nickel and copper catalysts. A. T. Larson and F. E. Smith. diag Am Chem Soc J 47:346-55 F '25
Temperature control in ammonia oxidation. G. A. Perley and R. P. Smith. Ind & Eng Chem 17:258-60 Mr '25
Thin films of platinum and nickel and catalytic activity. A. W. Gauger. diag Am Chem Soc J 47:2278-82 S '25
Third report of the committee on contact catalysis. H. S. Taylor. J Phys Chem 28: 897-942 S '24; Same. (Reprint and Circ. Ser. 59) p 897-942 50c National research council, 1701 Massachusetts av., Washington, D.C. '24
Use of platinum oxide as a catalyst in the reduction of organic compounds; reduction of furfural and its derivatives. W. E. Kaufmann and R. Adams. Am Chem Soc J 45: 3029-44 D '23
Velocity of chemical reactions and catalysis. H. I. Schlesinger. Soc Auto Eng J 16:433-41; Discussion. 441-3 Ap '25
Velocity of the hydrogen electrode reaction on platinum catalysts. L: P. Hammett. Am Chem Soc J 46:7-19 Ja '24
What do we know about catalysis? Chem & Met Eng 30:147-8 Ja 28 '24

See also Colloids

CATALYTIC apparatus
Catalyst bombs for synthetic ammonia production. E. K. Scott. diags Chem Age (Lond) 10:482-3 My 10 '24

CATAPHORESIS. See Electrophoresis

CATCH basins, Concrete
Richmond's concrete catchbasin. Pub Works 56:62 F '25

CATECHIN. See Catechol

CATECHOL
Carbon skeleton of catechin. K. Freudenberg and E. Cohn. Soc Dyers & Col J 40: 16 Ja '24
Constitution of catechin; α,3,5,3′,4′-pentahydroxy-4-benzyl-1,2-dihydrocoumarone. H. F. Dean and M. Nierenstein. Am Chem Soc J 46:2798-2806 D '24
Constitution of catechin; 4,5,7,3′,4′-pentahydroxy-flavan. M. Nierenstein. Am Chem Soc J 46:2793-8 D '24
Constitution of catechin: the production of maclurin from acacatechin. E. O. Hazleton and M. Nierenstein. Am Chem Soc J 46: 2100-5 S '24
Mitchell's colorimetric method in the estimation of catechol tannins; abstract. P. H. Price. Soc Dyers & Col J 40:384-5 N '24

CATERERS and catering

See Restaurants

CATERPILLAR tractors. See Tractors

CATHEDRALS
Cathedral church of Christ, Liverpool. il Am Inst Arch J 12:342-53 Ag '24
Cathedral of St Peter and St Paul, Washington, D.C. P. H. Frohman. il plan Am Arch 127:355-68, pl 97-107 Ap 22 '25
Ely, Durham and St Bartholomew's after the photographs by Frederick H. Evans. Am Inst Arch J 12:501-12 D '24
Liverpool cathedral. H. D. Eberlein. il diags plan Arch Rec 57:1-15 Ja '25
Saving St Paul's cathedral, London; failures of medieval cathedrals. J. B. Walker. il diag plan Sci Am 132:302-4 My '25
Washington cathedral. il Eng & Contr (Bldgs) 64:679-82 S 23 '25

See also Church architecture; *also* Lincoln cathedral; St John the Divine, Cathedral of; St Paul's cathedral, London; St Peter's, Rome

CATHODE rays
Absorption of cathode rays in aluminum foil. H. M. Terrill. diag Phys R 24:616-21 D '24

See also Canal rays; Electric discharges; Electrons; X rays

CATHODES
Cathodic behaviour of nickel-iron alloys. S. Glasstone. Elec R (Lond) 93:955 D 21 '23
Influence of the shape of the cathode on the normal current density of the glow discharge. A. Guenther-Schulze. il diag Am Electrochem Soc Trans v 44 (preprint 29): 361-70 S '23
Studies of electrolytic polarisation; the cathodic overvoltage of mercury. S: Glasstone. Chem Soc J 125:2646-56 D '24

See also Electrodes

CATSKILL aqueduct
Additional city pipe conduits of the Catskill aqueduct. W. E. Spear. il map Eng N 92:838-41 My 15 '24
Romantic history of New York's water supply. il Eng & Contr (W W) 62:587-90 S 10 '24
Sanitation on the Catskill watersheds. T. Merriman. Am Water Works Assn J 13:11-14 Ja '25; Same. Eng & Contr (W W) 61:1317-18 Je 11 '24
Shandaken—longest tunnel in world. F. Byrne. il map Am Ind 24:11-13 My '24
Submarine pipe laying for the Narrows siphon, New York. il Eng & Contr (W W) 62: 779-82 O 8 '24
Water admitted to world's longest tunnel. il map Eng N 92:297+ F 14 '24
World's greatest city water supply system. diags Sci Am 133:28 Jl '25

CATTALO
How the true cattalo is bred. il Sci Am 133: 89 Ag '25

CATTLE
New vigor in the cattle business. E. C. Brown. Comm & Fin 14:2051-3 O 21 '25
Postwar readjustments in beef and cattle production. Comm M 7:3-13 S '25; Same. Econ W n s 30:400-5 S 19 '25

See also Cattalo

Identification

Identifying animals by imprints. C. A. Mitchell. Sci Am 129:399 D '23

CATTLE dips. See Dipping fluids, Arsenical

CATTLE insurance. See Insurance, Live stock

CATTLE ticks
Cattle tick infection in the South claimed to be due to indifference, inefficiency and political stupidity. L. J. Folse. Manuf Rec 86: 81-2 Jl 24 '24

CAULKING

See also Oakum

CAUSEWAYS
Four-mile causeway carries state road over swamp. J. Pinnell and J. L. Parker. il map Eng N 93:48-51 Jl 10 '24
Gandy viaduct across Tampa Bay, Florida. il Engineering 119:729-30, pl 47 Je 12 '25
Johore causeway. il (supp) Engineer 136:537-8 N 16 '23; Same. Eng & Contr (Ry) 61:404-7 F 20 '24
Johore causeway. D. Paterson. Engineering 119:485 Ap 17 '25
Plant for Jamaica Bay boulevard construction. F. W. Skinner. il diags Concrete 25:50-4 Ag '24; Same. Munic & Co Eng 67:45-50 Jl '24; Same. Good Roads 67:49-53+ Ag '24
Proposed causeway between Rockaway Beach and Sandy Hook, N.Y. W: J. Wilgus. diags plan Munic & Co Eng 68:220-3 My '25

CAUSTIC soda. See Sodium hydroxide

CAVES

Carlsbad cave; recently explored cave in New Mexico which rivals, if not excels, Mammoth cave of Kentucky. F. Le R. Thurmond. il Sci Am 129:400 D '23

CAYLEY, Sir George, 1773-1857

Some notes on Sir George Cayley as a pioneer of aeronautics. J. E. Hodgson. Roy Aeronautical Soc J 27:371-80 Ag '23; Same cond. Aviation 15:744-7 D 17 '23

CEDAR

New use for an ancient wood. J. V. Denison. Arch & Bldg 55:129 D '23

CEDAR RAPIDS, Iowa

Water supply

Some problems of Cedar Rapids water works. H. F. Blomquist. Am Water Works Assn J 11:476-9 Mr '24

CEILINGS

Directions on installing metal ceiling. diags Sheet Metal Worker 16:84-5 Mr 13 '25

Majorcan loggia ceiling. G. Allen. il Arch Forum 40:115-16 Mr '24

Saving money by leaving concrete floorbeams as ceiling. R. D. Snodgrass. il Eng N 93: 630-1 O 16 '24

CELANESE. See Silk, Artificial

CELATENE dyes

Dyeing acetate silk. C: E. Mullin. Am Dyestuff Rep 14:622-4 S 21 '25

CELERY

Gassing celery for market, a newly discovered process. il Sci Am 132:262 Ap '25

CELERY-seed oil

Higher terpene compounds; selinene and the sesquiterpene alcohols of celery-seed oil. L. Ruzicka and M. Stoll. Chem Soc J 124 pt 1: 1216 D '23

CELITE

Bulking effect of celite. il Concrete 27:34 Jl '25

Heat insulator and filter aid; plant of Celite products co., Whitehills, Calif. il Chem & Met Eng 31:973-4 D 22 '24

CELLARS

Light cellars with few windows. W: V. Fitzgerald. diags Bldg Age 46:108+ Ap '24

Prize winning drawings of the ideal cellar competition. il plans Arch Forum 43:193-200 O '25

Wet cellars made dry. W: V. Fitzgerald. diag Bldg Age 46:87+ Je '24

See also Basements

CELLOPHANE

New product of cellulose. Chem & Met Eng 30:548 Ap 7 '24

New wood product—cellophane. J. Piani. Paper 33:30 Ja 17 '24

CELLS

Culture of tissues outside the body; abstract. J. H. Ashworth. Sci Am 131:100 Ag '24

Problems presented by films on solid surfaces. W. B. Hardy. Soc Chem Ind J (Chem & Ind) 44:281 Mr 13 '25

See also Osmosis; Plant cells and tissues; Protoplasm; Tuberculinic acid

CELLS, Electric. See Electric batteries

CELLS, Electrolytic. See Electrolytic cells

CELLS, Plant. See Plant cells and tissues

CELLULOID

Celluloid as a substitute for tracing cloth. Elec W 86:320 Ag 15 '25; Same. Eng & Contr (W W) 64:606 S 9 '25

Charging storage cells in celluloid cases; precautions suggested with a view to preventing fires. Elec R (Lond) 96:929-30 Je 12 '25

Dyeing of celluloid. J. F. Springer. Textile Col 45:101-2, 291-3, 372-4, 450-2, 528-9, 711-14; 46:40-1, 166-70 F, My-Ag, N '23, Ja, Mr '24

Further development made in celluloid finishings. Automotive Ind 51:194 Jl 24 '24

If the public misuses your trademark. A. E. Haase. Ptr Ink 132:124+ Jl 23 '25

Varation of stress-strain properties of nitrocellulose-camphor mix with its composition. P. Heymans and G: Calingaert. Ind & Eng Chem 16:939-40 S '24

CELLULOID, Liquid

Liquid celluloid to coat molds. Concrete 26: 213 Je '25

CELLULOSE

Action of aqueous sulphurous acid on lignocellulose. C. F. Cross and A. Engelstad. Soc Chem Ind J 43:253-7; 44:267-70 Ag 1 '24, Je 5 '25; Same (pt 1). Paper Tr J 81:45-8 Ag 20 '25; Abstract (pt 2). Paper 35:803 Ag 21 '24

Action of highly concentrated hydrochloric acid on cellulose and on some derivatives of glucose and of xylose. E. L. Hirst and D. R. Morrison. Chem Soc J 123:3226-35 D '23

Action of strong inorganic and organic bases on cotton cellulose; abstract. F. Dehnert and W. König. Soc Dyers & Col J 41:257 Jl '25

Bleaching of trade sulphate pulps and cotton with calcium hypochlorite solutions. A. Forster and S. A. Pearman. Soc Chem Ind J 44:233-41 My 15 '25

Cellulose. K. Hess. Soc Dyers & Col J 41: 140 Ap '25

Cellulose and colloidal iron. H. S. Bolton and C: Dorée. Soc Dyers & Col J 40:292-3 S '24

La cellulose au chlore; méthodes au chlore gazeux et à l'eau de chlore. U. Pomilio. il Chimie & Ind 11:423-33 Mr '24

Cellulose: constitution, acetylation, etc. K. Hess, W. Weltzien and E. Messmer. Textile Inst J 16:A44-6 F '25

Cellulose from resinous woods. Paper 35:248 N 27 '24

Cellulose studies; American chemical society meeting. Paper 34:896 S 4 '24

Die cellulosefabrikation. M. Schubert. 279p M. Krayn, Berlin '24

Chemical products of cellulose; chart. Ind & Eng Chem 17:33 Ja '25; Same. Paper 35:550 Ja 15 '25

Chemistry of posidonia fibre; the cellulose. J: C. Earl. Chem Soc J 125:1322-3 Je '24

Le chlore et la cellulose; état actuel et avenir de cette industrie. U. Pomilio. Chimie & Ind 11:1091-2 Je '24

Chloruration de la cellulose. A. de Perdiguier. il Chimie & Ind 11:1086-90 Je '24

Comparative investigations of lignin and cellulose. F. Fischer and H. Tropsch. Soc Dyers & Col J 40:87-90 Mr '24

Constitution of cellulose. A. W. Schorger. Ind & Eng Chem 16:1274-5 D '24

Constitution of polysaccharides; esparto cellulose. J. C. Irvine and E. L. Hirst. Chem Soc J 125:15-25 Ja '24

Continuous pulping process; Olier patent. diags Paper 35:227-31 N 27 '24

Determination of copper numbers of cellulose materials. C. J. Staud and H. Le B. Gray. bibliog Ind & Eng Chem 17:741-4 Jl '25

Developments in cellulose chemistry and their application to the textile industry. H. Hibbert. Am Dyestuff Rep 13:219-24; Discussion. 224-6 Ap 7 '24

Effect of light during growth upon the cellulose content of red spruce. G: J. Druckerman. Paper Tr J 81:45-9 Jl 30 '25

Every day textile chemistry: cellulose. C. W. McSwain. Comm & Fin 14:864-5 sec 2 Ap 29 '25

Gelatinization of lignocellulose. A. W. Schorger. Ind & Eng Chem 16:141-4 F '24

How shall we define cellulose? P: Klason. Paper 35:17-20 O 23 '24

Hydrolysis of cellulose and woodpulp. C. G. Schwalbe. Paper 35:502 Ja 8 '25

Importance of scientific research in the cellulose industry. Chem & Met Eng 30: 870 Je 2 '24

Influence of catalysts on carbonisation. R. Lessing and M. A. L. Banks. Chem Soc J 125:2344-55 N '24

CELLULOSE—*Continued*
Mechanism of the oxidation of typical carbohydrates with hydrogen peroxide and hypochlorous acid. J. Craik. Soc Chem Ind J 43:171-7 Je 6 '24
Modern chemistry and textile fibers. H. Hibbert. Am Dyestuff Rep 14:390-3; Discussion. 393-5 Je 15 '25
Modified method for the determination of the copper number (oxycellulose) of bleached pulps. P. D. Bray and Pao Chen Liu. diags Paper Tr J 80:49-53 My 28 '25
Monomolecular solution. K. Hess. Soc Dyers & Col J 39:367-8 D '23
Notes on the preparation of standard cellulose. A. B. Corey and H. Le B. Gray. Ind & Eng Chem 16:853-4, 1130 Ag, N '24
On alkali-cellulose; abstract. P. Karrer and K. Nishida. Soc Dyers & Col J 40:383-4 N '24
Plasticity in relation to cellulose and cellulose derivatives. S. E. Sheppard and E. K. Carver. il diags J Phys Chem 29:1244-63 O '25
Plasticity of cellulose in cuprammonium hydroxide. E. K. Carver and H. Folts. diags Am Chem Soc J 47:1430-4 My '25
Popular talk on cellulose. J. E. Minor. Paper 33:17-18 Ja 17 '24
Production of artificial lace and tulle from cellulose solutions. diag Color Tr J 14:164-5 My '24
Quantitative determination of the fluorescent powers (the spectro-fluorescometry) of cellulose and its derivatives. S. J. Lewis. il Soc Dyers & Col J 40:29-39, 111-14 F, Ap '24; Discussion. 40:39-40 F '24
Recent investigations on cellulose. E. Dörr. Soc Dyers & Col J 40:16-19 Ja '24
Riddle of cellulose. T: J. Keenan. Paper 33: 8+ F 28 '24
Rinman process for cellulose manufacture. E. L. Rinman. diag Paper 35:224-6 N 27 '24
Scientific study of cellulose. A. S. Klein. Paper 34:191 My 22 '24
Studies on cellulose; abstract. A. Dubosc. Soc Dyers & Col J 41:187-8 My '25
Studies on the reactions relating to carbohydrates and polysaccharides; the oxidation of cellulose. H. Hibbert and J: L. Parsons. Soc Chem Ind J 44:473-85 [bibliog. p. 485] O 9 '25
Studies on the swelling of cotton cellulose. G: E. Collins. Textile Inst J 16:T123-6 My '25
Studies on the swelling of cotton cellulose; cotton hairs in solutions of potassium hydroxide. G: E. Collins and A. M. Williams. Textile Inst J 15:T149-56 Ap '24
Studies on the swelling of cotton cellulose—cotton hairs in solutions of sodium hydroxide. G. E. Collins and A. M. Williams. diag Textile Inst J 14:T287-95 S '23; Same. Color Tr J 13:182-5 N '23; Same. Soc Dyers & Col J 39:368-71 D '23
Textbook of cellulose chemistry. E. Heuser. 212p McGraw-Hill '24
Vegetable fibrous materials. J. Huebner. Soc Dyers & Col J 41:60-2 F '25; Same. Am Dyestuff Rep 14:181-3 Mr 23 '25
Viscosity of cotton cellulose. J. O. Small. diag Ind & Eng Chem 17:515-17 My '25
Yield of β-glucosane obtained from low-pressure distillation of cellulose. H. J: P. Venn. diag Textile Inst J 15:T414-18 Ag '24

See also Hemicellulose; Nitrocellulose; Oxycellulose

Analysis

Determination of cellulose in wood. G. J. Ritter and L. C. Fleck. Ind & Eng Chem 16:147-8 F '24
Modified method for determining cellulose in wood. G. J. Ritter. Ind & Eng Chem 16:947-8 S '24

Terminology

Power of an obsolete nomenclature. L: E. Wise. diag Paper 33:508 F 21 '24

CELLULOSE acetate
Aviation dopes or varnishes. M. Deschiens. Soc Chem Ind J (Chem & Ind) 44:902-7 S 11 '25
Contribution à l'étude de la stabilité des éthers cellulosiques. A. Caille. Chimie & Ind 13:11-13 Ja '25
Étude de la préparation des acétates de cellulose. A. Caille. il Chimie & Ind 12:441-8 S '24; Abstract (Cellulose acetates). Soc Dyers & Col J 41:184-5 My '25
Plasticity in relation to cellulose and cellulose derivatives. S. E. Sheppard and E. K. Carver. il diag J Phys Chem 29:1244-63 O '25

See also Silk, Artificial

CELLULOSE ethers
Contribution à l'étude de la stabilité des éthers cellulosiques. A. Caille. Chimie & Ind 13:11-13 Ja '25
Making cellulose ethers. Chem & Met Eng 31: 631 O 20 '24

CELLULOSE nitrates. See Collodion; Nitrocellulose; Pyroxylin

CELLULOSE sodium xanthogenate. See Viscose

CELLULOSE tetranitrate. See Collodion

CEMENT
Acid proof cement; Basolit. Eng & Contr (Bldgs) 62:1394 D 24 '24
Action of sodium and magnesium sulfates on constituents of Portland cement. G. R. Shelton. il Ind & Eng Chem 17:589-92 Je '25
Belt conveys loose cement from storage shed to mixer. J. F. Laboon. plan Eng N 92:293 F 14 '24
Blended cements. Eng & Contr (Bldgs) 64: 945 O 28 '25
Building materials from waste products. Chem Age (Lond) 9:601 D 1 '23
Building up disintegrated piles with quick-setting cement mortar. A. F. Shure. diag Eng N 94:284 F 12 '25
Calcium sulphate cement. C. L. Haddon and M. A. W. Brown. bibliog Soc Chem Ind J 43:11-16 Ja 18 '24
Catechism of central station gas engineering in the United States; qualities of different cements. Am Gas J 122:513-14, 533-4 Je 13-20 '25
Cement formula for aquarium. Sheet Metal Worker 16:277 My 22 '25
Cement requirements for modern highway construction. A. T. Goldbeck. Eng N 95:65-6 Jl 9 '25
Cement study activated by government committee. Eng N 92:725 Ap 24 '24
Changes in cement imminent in Germany. Eng N 94:807 My 14 '25
Les ciments spéciaux et l'avenir du béton armé. H: Lossier. Génie Civil 85:434-5 N 8 '24
Color cement handicraft. P. J. Lemos and R. A. Lemos. 2d ed. 201p Davis press, Worcester, Mass. '24
Composition flooring. R. R. Butler. Soc Chem Ind J (Chem & Ind) 42:980-2 O 12 '23; Same. Concrete 23:176-7 N '23
Concrete from the viewpoint of Mr Cement. T. Merriman. Am Concrete Inst Pro 21:109-12 '25
Couverture en ciment armé du quai nord-ouest du port de Sfax (Tunisie). F. Willm. il diags Génie Civil 85:424-6 N 8 '24
Crazing on cement products. P. H. Bates. Am Concrete Inst Pro 21:126-30 '25; Same. Concrete 26:89-90 Mr '25; Discussion. Am Concrete Inst Pro 21:131-3 '25
Disintegration of cement in sea water. W: G. Atwood and A. A. Johnson. Am Soc C E Pro 49:1038-58; Bibliography. 1058-64 Ag '23; Same, without bibliog. Eng & Contr (Bldgs) 59:1425-36 Je 27 '23; Abstract. Ry R 73:239-40 Ag 18 '23; Discussion. Am Soc C E Pro 49:1647-61, 1762-6, 1914-23, 2060-6; 50:47-57 S '23-Ja '24; Concrete 23:234-8 D '23
Disintegration of Portland cement in sulfate waters. T. Thorvaldson, R. H. Harris, and D: Wolochow. Ind & Eng Chem 17:467-70 My '25

CEMENT—*Continued*
Effect of heat on the strength of calcined kieselguhr-Portland cement mixtures. S. J. McDowell and H. M. Kraner. Am Cer Soc J 8:784-8 N '25
Facts you should know about asbestos furnace cement. W: P. Werner. il Sheet Metal Worker 15:286-8, 316-18 My 9-23 '24
Ferrocrete—a rapid-hardening cement; compression tests of beams made with it. Engineer 138:667-8 D 12 '24; Same. Can Eng 48: 178 Ja 27 '25
Ferrocrete; British quick hardening cement. A. C. Blackall. Concrete (cement mill sec) 26:39 Mr '25
Fineness of Portland cement. Engineering 119:577-8 My 8 '25; Discussion. 119:678, 710 My 29-Je 5 '25
Fundamental cause of the disintegration of concrete. A. H. White. il Concrete 26:157-61 My '25; Same. Munic & Co Eng 69:27-33 Jl '25; Same. Can Eng 49:439-41 O 6 '25
German observations on cement. O: Schott. Concrete 25:95 N '24
Heat losses through insulating materials. R. H. Heilman. Mech Eng 46:597-602; Discussion. 602-6 O '24
High early strength cement from titaniferous ores. E. C. Eckel. Eng N 93:1001 D 18 '24
Höherwertige zemente. O: Graf. Zeit Ver Deutsch Ing 68:853-6 Ag 16 '24
L'influence des pouzzolanes sur les ciments. O. Raulin. Génie Civil 85:37-9 Jl 12 '24
Iron oxide cements. Concrete (cement mill sec) 27:66 O '25
New cement for roads; tests of ferrocrete. Chem Age (Lond) 11:578 D 6 '24
New hydraulic gypsum cement. Chem Age (Lond) 13:152 Ag 8 '25
New studies in the properties of Portland cement. T. Merriman. Eng N 93:669-72 O 23 '24
Pelumina cement; abstract. Mech Eng 47:501 Je '25
Perfect cement. Friescke. Concrete 25:58 Ag '24
Portland cement. T. Merriman. Concrete 25: sup31-3 Ag '24
Portland cement production in 1923. Eng & Contr (R & S) 62:32 Jl 2 '24
Portland cement stucco. S: Warren. diags Am Arch 126:225-8, 269-72, 319-24, 365-72 S 10-O 22 '24
Portland cement used in making repair to thirty-six inch pulleys. G. G. McVicker. diags Power 61:67 Ja 13 '25
Properties of cements intermediate in composition between Portland cement and fused cement. O. Huet. Am Cer Soc J 8 (Cer A 4):55-8 Mr '25
Quick-hardening cement. Concrete 23:174 N '23
Recent developments in the cement industry. Soc Chem Ind J (Chem & Ind) 44:166-7 F 13 '25
Shall anything be added to Portland cement? M. Toch. il Am Concrete Inst Pro 21:134-43 '25; Abstract. Concrete 26:96-7 Mr '25; Discussion. Am Concrete Inst Pro 21:144-7 '25
Should Portland cement be improved? Ry Age 79:465 S 12 '25
Silica cement. E. N. McGee. Can Chem & Met 7:281-2 N '23
Solubility of Portland cement in weathering agents. H. K. Benson, J. S. Herrick and T. Matsumoto. Ind & Eng Chem 16:1063-6 O '24
Titan and alumina cements—their raw materials. E. C. Eckel Manuf Rec 86:79-80 O 9 '24
Ueber die eigenschaften von elektrozement und seine verwendbarkeit zur herstellung von hüttenzementen. A. Guttmann. il Stahl & Eisen 44:786-92, 815-19 Jl 3-10 '24
What we may expect to do with aluminate cement that we cannot do with Portland cement, based on costs and results obtained abroad. H: S. Spackman. Am Concrete Inst Pro 20:348-54 '24; Same. Concrete 24:88-90 Mr '24; Same. Arch Forum 41:sup69-70 O '24; Discussion. Am Concrete Inst Pro 20: 355-7 '24

See also Cement gun; Concrete; Grouting; Gunite; Gypsum products; Laitance; Mortar; Novocrete; Stucco

Alumina cement

Action of frost on cement fondu. Engineering 117:393 Mr 28 '24; Discussion. W. N. Thomas. 117:464 Ap 17 '24
Actual uses of alumina cements. E. C. Eckel. Concrete 23:175-6, 217-18 N-D '23
Air-nitrogen alumina cement. A. Spengel. Concrete 25:sup81-2 O '24
Alumina cement in factory construction. E. L. Heidenreich. il Concrete 26:202 Je '25
Alumina replaces Portland cement in septic tanks. F. M. Brown. il Concrete 25:72-3 Ag '24
Aluminous cement (ciment fondu) pure or mixed (sand cement). A. Paris. Concrete 25: 69-71 Ag '24
Aluminous cement in practice. T. J. Gueritte. Can Eng 47:135-6 Jl 8 '24; Same. Eng & Contr (Bldgs) 62:458-60 Ag 27 '24
American alumina cement. Concrete 26:71-3 F '25
American alumina cement. Eng N 92:796 My 8 '24; Coal Age 25:727 My 15 '24; Ry Age 76:1317-18 My 31 '24
Ciment fondu proves unsuccessful for grout. Elec Ry J 63:618-19 Ap 19 '24
Close water control important in alumina cement concrete. P. H. Bates. Eng N 95:462-3 S 17 '25
Effect of age upon ciment fondu. Engineering 116:631 N 16 '23
Further uses of alumina cement. Concrete 27: 45 S '25
Good reports of ciment fondu confirmed. Elec Ry J 62:1006 D 15 '23
High-alumina cement. J. Bied. Am Cer Soc J 7 (Cer A 3):32-3 F '24
High alumina cement now produced in commercial quantities in this country. Eng & Contr (Ry) 61:1133 My 21 '24
Influence of water content on heating of aluminous cements during hardening. J. Bertet. Concrete 25:92-5 S '24; Same (L'influence de la quantité d'eau de gachage sur l'échauffement, pendant la prise des ciments alumineux). Génie Civil 84:542-4 Je 7 '24
Lumnite cement. Textile World 67:3422 My 23 '25
Macadam type of road surface bound with aluminous cement. H. C. Badder. il Concrete 27:20-1 Jl '25
Manufacture of alumina cement in Europe. Concrete (cement mill sec) 26:59-60 My '25
One-day strength test suggested for concrete aggregate; quick hardening alumina cement. S. B. Slack and J. E. Boyd. Eng N 94: 1014-15 Je 18 '25; Discussion. 95:113 Jl 16 '25
Progress in ciment fondu in France. Eng & Contr (Bldgs) 64:196 Jl 22 '25
Properties and use of aluminate cement. R. L. Morrison. Concrete 26:128-30 Ap '25; Same. Eng & Contr (R & S) 63:987-91 My 6 '25; Same, without tables. Good Roads 68: 190-1 Ag '25; Excerpts. Munic & Co Eng 69: 160-2 S '25
Quick hardening cements. Can Eng 48:613-14 Je 23 '25
Set of lumnite cement. S. L. Meyers. Concrete 26:85-7 Mr '25
Some economic possibilities with Atlas lumnite cement. J. W. Hussey. Munic & Co Eng 68:82-4 F '25
Tests of alumina cement. J. Y. Jewitt. Concrete 26:211 Je '25
Use of quick-setting cement allows early completion of Maryland bridge. B. T. Weston. il Eng N 94:741 Ap 30 '25; Discussion. 94: 865 My 21 '25

Analysis

Photometric method for magnesia in Portland cement. W. E. Haskell. Concrete (cement mill sec) 27:1-2 Jl '25

CEMENT—*Continued*

Bibliography

Brief bibliography on Portland cement. D. A. Abrams. 8p Structural materials research laboratory, Lewis inst., Chicago '25 (typew)

History

Centenary of Portland cement. Concrete 25: sup51 O '24

Centenary of Portland cement. J. M. Oxley. il diags Can Eng 47:459-63 O 28 '24

Centennial of Portland cement. il plans Bldg Age 46:83 F '24

Centennial of Portland cement. F. W. Kelley. Eng & Contr (R & S) 62:1239-40 D 3 '24; Same. Good Roads 68:23+ Ja '25

Century of Portland cement. Eng N 93:817 N 20 '24

History of the Portland cement industry in the United States. R. W. Lesley. 330p International trade press, inc., New York '24; Review, by H. Whipple. Concrete 26:84 Mr '25

Hundred years of Portland cement, 1824-1924, by A. C. Davis. 282p Concrete publications, ltd., London '24; Review. Engineering 119: 5-6 Ja 2 '25

Invention and early development of Portland cement. H. C. Badder. il Concrete 25:119-27 O '24

Origin of Portland cement. A. C. Davis. il Concrete 25:141-2 O '24

Magnesium oxychloride cement

Magnesium oxychloride cement. J. H. Paterson. Soc Chem Ind J (Chem & Ind) 43:215-18 F 29 '24; Discussion. H. H. Dains. 43:284 Mr 14 '24

Magnesium oxy-chlorides, their properties and uses in the construction field. M. Y. Seaton. diags Am Inst Chem Eng Trans v 14:305-19 '21-'22

Non-corrosive cement; investigation of manganese oxychloride product. Chem Age (Lond) 13:381 O 10 '25

Tests of caustic magnesia made from magnesite from several sources. P. H. Bates, R. N. Young and P. Rapp. U S Bur Stand Tech Pa 239:529-58 '23; Excerpts. Am Arch 124:567 D 19 '23

What is good magnesium oxychloride cement? H. L. Olin and B. H. Peterson. Chem & Met Eng 31:266-7 Ag 18 '24

Manufacture

Calcium-sulphate retarders for Portland cement. E. E. Berger. U S Bur Mines Rep of Invest 2705:1-20 [bibliog. p. 20] S '25

Cement fondu industry in France. T. Wolfram. Concrete (cement mill sec) 26:60 My '25

Cement from oyster shells; large wet process plant near San Francisco. il Chem & Met Eng 31:882-3 D 8 '24

Cement is the magic of concrete. F. W. Kelley. il Am Concrete Inst Pro 20:43-52 '24; Same. Concrete 24:85-7 Mr '24

Cement manufacture. G. E. Cassidy. Sibley J 38:7-8 Ja '24

Cements from blast furnace slags in France. P. Prevost. diags Concrete (cement mill sec) 26:40-2 Mr '25

Contribution of scientific research to the development of the Portland cement industry in the United States. D. A. Abrams. Ann Am Acad 119:40-7 My '25

L'emploi du four électrique pour la préparation des ciments de laitier. Génie Civil 86: 194 F 21 '25

Exothermic reaction of Portland cement clinker formation. G. Martin. Concrete 24:sup 86-7 Je '24

How Portland cement is made. D. F. Jennings. diags Concrete 25:157-61 O '24

How silica cement is made. P. H. Jung. diag Chem & Met Eng 31:465-7 S 22 '24

Making the cement for concrete roads. G. S. Eaton. il Good Roads 66:67-9 Mr '24

Manufacture of alumina cement in Europe. Concrete (cement mill sec) 26:59-60 My '25

Manufacture of Portland cement from marl. R. E. Kirk. Univ of Minn Eng Exp Sta Bul 2:1-52 '23; Abstract. Chem Age (Lond) 9:sup 16-17 N 17 '23

Manufacturing problems of cement industry. J: J. Porter. Concrete (cement mill sec) 26:82-4 Je '25

New dry process plant Phoenix Portland cement company. il Concrete 25:sup60-5 O '24

New laws govern fine grinding. C: E. Blyth, G. Martin and H. Tongue. Concrete 25:sup 42-4 S '24

New Peerless cement plant has unique features. D. F. Jennings. il plan Concrete (cement mill sec) 27:49-54, 67-72 S-O '25

New Standard Portland cement co. starts operation at Painsville, Ohio. il plan Concrete (cement mill sec) 27:55-60, 73-5 S-O '25

Novel source of raw materials cuts costs; oyster shells for cement. il Management & Adm 9:37-8 Ja '25

Petrography of Portland cement clinker. Concrete (cement mill sec) 27:63-4 O '25

Portland cement in the United States. R. W. Lesley. il Concrete 25:128-32+ O '24

Potash from cement dust; concentration by elutriation. E. J. Fox and C. W. Whittaker. Ind & Eng Chem 16:1044-6 O '24; Abstract. Concrete (cement mill sec) 26:6 Ja '25

Romances of industry—cement. K. Rotharmel. il Am Ind 24:7-10 Mr '24

South Dakota's state cement enterprise. F. C Lincoln. il Eng & Min J 120:365-8 S 5 '25

Spontaneous disintegration of cement clinker on cooling in the air. J. Dautrebande. Am Cer Soc J 7 (Cer A 3):65-6 Mr '24

Thermo-chemistry of Portland cement burning. M. Dautrebande. Am Cer Soc J 7 (Cer A 3):309-11 N '24

Turning mud and oyster shells into cement. Sci Am 132:260 Ap '25

Viscosity of raw material slurry. Concrete 23:sup91 N '23

Wet process in blast furnace slag limestone cement manufacture. W. H. Blatchley. il Concrete (cement mill sec) 26:19-21 F '25

See also Cement kilns; Cement plants

Patents

New titan cement patented by Eckel. Concrete 25:sup91 N '24

Prices

Portland cement prices, Chicago; tabulation. D. H. Maury. Eng & Contr (W W) 61: 1042 My 14 '24

Portland cement prices, their basis, character and present position. H: P. Willis and J: R. B. Byers. 123p Ronald press '24

Setting

Advantages of rapid-setting cement in oil wells. Eng & Min J 117:239 F 9 '24

Factors in cement setting. H. K. G. Bamber. Can Eng 47:320 S 9 '24; Same. Concrete 26: 197 Je '25; Discussion. (cement mill sec) 26: 24 F '25

Quick-hardening pavement in Rhode Island. Pub Works 56:209-11 Je '25

Rapid hardening slag cement. P. Prevost. plan Concrete 26:172-4 My '25

Regulating setting time of Portland cement. Can Eng 45:485-7, 509-11 N 13-20 '23

See also Cement—Alumina cement

Specifications

A.S.T.M. committee C-1 on cement. Munic & Co Eng 68:205-6 Ap '25

British standard specification for Portland cement. Engineering 120:452 O 9 '25

Cement specifications. D. A. Abrams. Concrete 25:196-7 N '24

Standard specifications for concrete and reinforced concrete; submitted by the joint committee. diags Am Soc C E Pro 50:1221-34 O '24

CEMENT—*Continued*

Standards

High early-strength Portland cements in Germany. G. Haegermann. Eng N 93:910-11 D 4 '24; Discussion. J. L. Miner. 93:1007-8 D 18 '24

Modern quality standards of Portland cement in England. Concrete 25:sup94 N '24

Storage

See Cement storage

Testing

Building cements and concretes. Can Eng 49: 312 S 15 '25

Check tests of cement. Pub Roads 5:15-16 N '24

Compacting machine for sand-cement briquettes for testing. il diags Engineering 119: 273-5 F 27 '25

Determination of water imperviousness or water permeability of cements. E. Anderson. diags Concrete 26:195-7 Je '25

Fine grinding of cement increases strength of concrete. M. Temin and W. H. Sligh. Concrete 27:47-9 S '25

High early-strength Portland cements in Germany. G. Haegermann. Eng N 93:910-11 D 4 '24; Discussion. J. L. Miner. 93:1007-8 D 18 '24

Late data on the effect of finer grinding and a higher SO_3 content upon the physical properties of Portland cement. P. H. Bates. Am Soc T M Pro 23 pt 2:248-54, pl 1 '23

Long time tests of unsound cement. Concrete 26:177 My '25

Rapid hardening of Portland cement. charts Concrete 26:130-1 Ap '25

Tests of alumina cement. J. Y. Jewitt. Concrete 26:221 Je '25

Twelve hour compressive strength tests. Concrete 23:sup108 D '23

See also Cement research; Mortar—Testing

Transportation

Packing cement for export. Concrete (cement mill sec) 26:54-5 Ap '25

Portland cement industry, an important source of freight. il Ry R 74:845-6 My 10 '24

Steamer carrying bulk cement has self-unloading plant. H: Penton and H. C. Sadler. Eng N 94:109 Ja 15 '25; Same. Cassier's Ind Management 12:183 Mr '25

See also Cement bags

CEMENT, Rubber. See Rubber cement

CEMENT bags

Car of empty cement sacks is worth several cars of cement. Ry R 74:536 Mr 15 '24

Cement bag production increases. Concrete (cement mill sec) 27:2 Jl '25

Effect of hot cement on paper bags. W. Herzberg. Paper 32:11+ S 26 '23; Same. Concrete 23:sup109 D '23

Good and bad records with cement sacks on railroad work. Eng & Contr (Ry) 62:428 Ag 20 '24

Paper bags gaining favor with cement shippers. Paper Tr J 80:36 Ap 16 '25

Relative merits of cotton and jute cement sacks. R. J. Morris. il U S Bur Stand Tech Pa 292:515-36 '25

34,000 miles of cloth for cement. L. N. Duryea. il Textile World 65:2475+ Ap 12 '24

Who pays for free service cement sacks? Concrete 27:45-6 O '25

Specifications

Cement bag specifications. Textile World 64: 3296 D 1 '23

Proposed tentative specifications and methods of test for Osnaburg cement sacks. Textile World 65:4285 Je 28 '24

CEMENT congress, International. See International cement congress

CEMENT gun

Cement gun maintenance unit. E. S. Borgquist. il Eng & Contr (R & S) 64:329-31 Ag 5 '25

Cracks in reservoir tower and wall repaired with cement gun. E. Carroll. il Eng N 93: 516 S 25 '24

L'emploi du canon à ciment dans les galeries des charbonnages hollandais. Génie Civil 86: 466 My 9 '25

Gunite construction in Honduras; building a million-gallon power reservoir. S: G. Lasky. il diag plan Eng & Min J 119:803-4 My 16 '25

Repairing coagulation basins with cement gun; method and cost of work at Oklahoma City, Okla. A. S. Holway. il Eng & Contr (W W) 60:1004-6 N 14 '23

Repairing New York's sewers. Pub Works 55: 24 Ja '24

Steel stack reinforced while in service. il Power Pl Eng 29:758 Jl 15 '25

See also Concrete gun

CEMENT handling

Crane and grab installation for handling clay and cement. il diag Cassier's Ind Management 12:395-7 Ag '25

See also Cement storage

CEMENT industry and trade

Dealers' profits on cement to large users. O. T. Reece. Eng N 91:567 O 4 '23; Discussion. 91:692, 730, 859 O 25-N 1, 22 '23

Foreign cement producers active. Concrete (cement mill sec) 26:47-50 Ap '25

How Portland cement is distributed. M. Kind. Brick & Clay Rec 66:671-4 Ap 28 '25

International trade in cement; Asia, Australia and Africa. R. M. Santmyers. U S Bur For & Dom Com Trade Information Bul 220:1-25 '24

International trade in cement; Europe. R. M. Santmyers. U S Bur For & Dom Com Trade Information Bul 213:1-38 '24

International trade in cement; North and South America. R. M. Santmyers. U S Bur For & Dom Com Trade Information Bul 205:1-36 '24

Making a success of it in the cement industry. C: Baumberger. il Concrete 23:sup 79-82 N '23

1924 marks centennial of cement industry. Munic & Co Eng 67:12-13 Jl '24

Oil-coal combination effects little economy in cement industry. Coal Age 27:681 My 7 '25

Progress in cement industry. G. S. Brown. Concrete 24:sup74-6 My '24

See also Cement—Prices; *also* Portland cement association

Service

Who pays for free service cement sacks? Concrete 27:45-6 O '25

Statistics

Portland cement and terra cotta. Survey of Cur Business 39:102-3 N '24

Statistics on the cement manufacturing industry 1923. Eng N 93:930 D 4 '24

California

Development of the cement business in southern California. C. L. Carman. il Concrete 25: sup8-9 Jl '24

Canada

Increase in cement output in 1924. Can Eng 49:247 Ag 25 '25

Portland cement industry in Canada. A. G. Fleming. Can Chem & Met 9:117 My '25

China

Biggest cement works in China. M. H. Chou. il Concrete 25:sup38-41 S '24

France

French cement industry forced to seek foreign markets. W: W. Corcoran. Concrete (cement mill sec) 26:11 Ja '25

Great Britain

British cement competition. H. C. Badder. Concrete (cement mill sec) 26:81 Je '25

British trade in cement. A. Nutting. Concrete 23:sup105; 24:sup8 D '23-Ja '24

CEMENT industry and trade—Great Britain —*Continued*
Origin of Portland cement. A. C. Davis. il Concrete 25:141-2 O '24
Struggle in the cement trade. Economist 98: 726-7 Ap 5 '24

India
Cement production in India. Economist 99: 522-3 O 4 '24

South Africa
Cement industry in South Africa. M. C. Bird. il Concrete 25:sup83-5 N '24

Southern states
Development of the Portland cement industry in the South. K. Rotharmel. il Manuf Rec 86:331-5 pt 2 D 11 '24

United States
Bullying big business: the case of cement. L. Dale. Comm & Fin 14:819-20 Ap 29 '25
Cement. Bradstreet's 53:258 Ap 18 '25
Cement dumping case is heard in Washington. Eng N 92:1032 Je 12 '24
Cement exported from U.S. Eng N 92:634 Ap 10 '24
Cement in 1923. R. W. Lesley. Concrete (cement mill sec) 25:99-103 D '24
Cement industry at peak while others lag. Bradstreet's 52:669 O 18 '24
Cement makers end year with remarkable record—set new production mark. Comm & Fin Chr 118:261 Ja 19 '24
Cement, 1922-1924. Survey of Cur Business 30: 101 F '24
Cement output still gaining. Bradstreet's 53: 545 Ag 22 '25
Cement production in 1922. R. W. Lesley. Concrete 23:sup85-8 N '23
Cement; trends in production and distribution. Index p 6-7 Jl '24
Le ciment aux États-Unis. C. Candlot. Soc Ing Civils Bul 78:504-15, pl 94 Jl '25
Demands increasing for reinforcing steel. L. N. Duryea. il Iron Age 113:1847-9 Je 26 '24
Effect of trade association decision on the cement industry. E. Dakin. Am Ind 25:18-19 Jl '25
New demands for reinforcing steel. L. N. Duryea. il Iron Tr R 75:1565-7 D 11 '24
1923 a record year in cement industry. Comm & Fin Chr 118:494 F 2 '24; Eng N 93:930 D 4 '24; Am Ind 24:26 F '24; Manuf Rec 85:83-4 Je 26 '24; Iron Age 113:1865 Je 26 '24
Portland cement for 1924. Concrete (cement mill sec) 26:15-17 F '25
Portland cement in the United States. R. W. Lesley. il Concrete 25:128-32+ O '24
Portland cement output in December, 1923. Concrete 24:sup19-20 F '24 [continued monthly]
Portland cement production in October. Comm & Fin Chr 117:2274 N 24 '23 [continued monthly]
Production and distribution of Portland cement in the United States in December and during 1924. Econ W n s 29:122-3 Ja 24 '25
Production and stocks of cement indicate abundant supply. Eng & Contr (Bldgs) 63: 850 Ap 24 '25
Reinforcing bar and cement production. Eng & Contr (Bldgs) 63:1156 My 27 '25
Technology and huge expansion. Chem & Met Eng 32:105-6 Ja 19 '25
Treasury finds no evidence of cement dumping. Eng N 93:607 O 9 '24

See also Cement manufacturers' protective association; International cement corporation

CEMENT kilns
Automatic shaft kiln for cement burning. F. Killig. il diags Concrete 25:sup24-8 Ag '24
Cement burning. R: K. Meade. Concrete 25: sup20-3 Ag '24
Cement burning—discussion. C. O. Sandstrom. Concrete 25:sup85-7 N '24
Cement industry may offer bigger market for fuel oil. L. N. Duryea. Nat Pet N 16:105 Ag 13 '24
Combined rotary cement kiln and clinker cooler. il Engineer 140:124 Jl 31 '25
Excess air in rotary kilns. E. H. Pentland. Concrete 25:sup92 N '24
Gun for removing clinker rings. il Concrete (cement mill sec) 25:110-11 D '24
Improvements in shaft cement kilns. Concrete 23:sup108 D '23
Lining for cement-drying kilns. diag Chem & Met Eng 31:236 Ag 11 '24
Lubrication of the cement kiln. G. S. La Forge. Concrete 24:sup59 Ap '24
Nouveau four à ciment vertical, chauffé au gaz. il diags Génie Civil 85:14-16 Jl 5 '24
Waste heat from cement kilns operates entire mill. H. A. Schaffer. Chem & Met Eng 29:18-19 Jl 2 '23; Same. Concrete 23:sup106-7 D '23

See also Cement plants

Tables, calculations, etc.
Calculation of coal expenses in rotary cement kilns. D. A. Tchernobaïeff. Am Cer Soc J 8:702-7 N '25

CEMENT lined pipe
Cast iron pipe. H. Y. Carson. Blast F & Steel Pl 13:335 Ag '25
Cement lined pipe manufactured at Birmingham—advantages of the product outlined. Manuf Rec 86:84 Jl 31 '24
Development and manufacture of the modern cement lined service pipe. R. J. Newsom. Am Water Works Assn J 13:145-9 F '25; Same. Can Eng 47:283-4 Ag 26 '24; Excerpt. Eng & Contr (W W) 61:1296 Je 11 '24
New non-corrosive pipe-lining process. Sci Am 130:274+ Ap '24
Sandspun pipe. C: R. Wood. N E Water Works Assn J 39:85-7; Discussion. 87-9 Mr '25

CEMENT manufacturers' protective association
Cement manufacturers protective association dissolved by Judge Knox. Concrete 23:206 N '23
Decree of Judge Knox. Iron Age 112:1646-7 D 20 '23; Same. Iron Tr R 73:1738 D 27 '23
Supreme court decides cement case; text. Eng & Contr (Bldgs) 63:1399-1402 Je 24 '25; Excerpt. Eng N 94:981 Je 11 '25
U.S. Supreme court upholds cement trade association activities. I. D. Foos. Concrete 27: 6-8 Jl '25

CEMENT plants
Big cement plant completed in Georgia; plant no. 2 of the Clinchfield Portland cement corporation. M. M. Hunter. il Manuf Rec 87: 76-7 My 28 '25
Biggest cement works in China. M. H. Chou. il Concrete 25:sup38-41 S '24
Cement plant model made largely of cement. H: W. Nichols. il Concrete 24:163-4 Ap '24
Cement plant of J. Van Den Heuvel. J. Goossens. il plan Concrete 24:sup21 F '24
Construction record at Signal Mountain plant. il Concrete 24:sup1-3, sup17-19 Ja-F '24
Erecting 500,000 barrel cement plant at Fort Worth. W. H. L. McCourtie. il Manuf Rec 85:76-7 Ap 10 '24
Glimpse into the Portland cement industry. il Ind Eng 82:110-12 Mr '24
Hermitage Portland cement co.'s plant nears completion. il plan Concrete 24:sup33-6 Mr '24
How Henry Ford makes cement. D. F. Jennings. il plan Concrete 24:sup65-72 My '24
Increasing a cement plant 250%. C. L. Carmen. il plans Concrete 25:sup17-19 Ag '24
Kiln room. C. H. Sonntag. Concrete (cement mill sec) 26:75-7; 27:3 Je-Jl '25; Discussion. 27:60, 82-3 S, N '25
Modern trend in building cement mills. Sci Am 130:345 My '24
New cement works on the Humber. flow sheet il diags plan Engineer 137:326-8, 336, 358-60, 392-4 Mr 28-Ap 11 '24
New dry process plant Phoenix Portland cement company. il Concrete 25:sup60-5 O '24
New $1,500,000 cement plant at Nashville now operating at capacity. il Manuf Rec 86:100-1 Ag 7 '24

CEMENT plants—*Continued*
New Peerless cement plant has unique features. D. F. Jennings. il plan Concrete (cement mill sec) 27:49-54, 67-72 S-O '25
New Standard Portland cement co. starts operation at Painsville, Ohio. il plan Concrete (cement mill sec) 27:55-60, 73-5 S-O '25
New wet process plant of the Lehigh Portland cement company. il Concrete 25:sup52-9 O '24
Öland cement company's plant at Degerhamn, Sweden. F. Killig. il diags plan Concrete 25: sup71-6 O '24
Pittsburgh plate glass company operates new cement plant. il plan Concrete 25:sup66-70 O '24
Some facts about Portland cement manufacture; report of an inspection of Petoskey Portland cement co.'s plant. C. Wadsworth. il plan Chem & Met Eng 31:570-3 O 13 '24
Superior company developing plant. P. Gooding. il diag plans Concrete (cement mill sec) 26:1-4 Ja '25
Trinity company completes Fort Worth plant. il Concrete (cement mill sec) 27:35-8 Ag '25
Trinity Portland cement company expands. W. H. L. McCourtie. il Concrete 24:sup83-4 Je '24
Utilization of waste heat in Mexican cement plant. A. B. Stewart. il diags plans Concrete 24:sup49-57 Ap '24
Well-equipped Australian plant. il Concrete (cement mill sec) 26:35-6 Mr '25
Wilsons New Zealand cement works at Portland. il Concrete 23:sup97-9 D '23
See also Cement—Manufacture; Cement kilns

Accidents
Cement industry reduces accidents in 1924. Nat Safety N 11:42 Je '25
Fatal accidents in the cement industry. Concrete (cement mill sec) 26:52-3 Ap '25
Fatal accidents in the cement industry. R. Frame. Concrete (cement mill sec) 27:77-80 N '25
June drive makes new record for cement industry. H. G. Jacobsen. Nat Safety N 12: 12 S '25
Study of accidents in the Portland cement industry. Safety Eng 46:234-6 N '23

Accounting
Cost accounting in the cement industry. O. N. Lindahl. Ind Management 69:122-6 F '25; Same. Concrete (cement mill sec) 26:63-7 My '25

Electric equipment
Electric purification of gas. E. L. Heidenreich. il diags plans Concrete (cement mill sec) 25:107-9 D '24
Synchronous motors for cement mill drive. G. E. Cassidy. il plans Concrete 25:sup1-7 Jl '24

Equipment
Lubrication in steel and cement mills. J. A. Marland. W Soc E J 30:254-9 Je '25; Same. Concrete (cement mill sec) 27:39-42 Ag '25
Mechanical handling at River Rouge; mechanical handling in the by-products plant. M: W. Potts. il Ind Management 68:107-9 Ag '24
Traveling slurry agitator in cement plant. il Concrete (cement mill sec) 26:18-19 F '25

Management
Handling 42,000,000 tons of raw material a year. L. N. Duryea. il Management & Adm 8:155-60 Ag '24

Power
Electric power in the cement industry in Canada. W. G. H. Cam. flow sheet il diag Concrete (cement mill sec) 25:104-6 D '24
Generated vs. purchased power in various industries; report of Pacific coast electrical association. J Elec 54:412-15 Je 1 '25

Safety devices and measures
Cement section National safety council meets. Concrete 23:sup83-4 N '23
Cement section of Safety council holds interesting meetings. D. F. Jennings. Concrete (cement mill sec) 27:80-2 N '25
Safety as viewed by an executive. E. M. Young. Concrete 23:sup111 D '23
Safety organization for the cement plant. H: A. Reninger. Nat Safety N 8:37-8 O '23
365 days without an accident. L. M. McDonald. Concrete (cement mill sec) 27:83-5 N '25

State ownership
Conditions which have prompted consideration of state purchase and manufacture of road building materials. B. H. Piepmeier. Good Roads 56:44-6 F '24
Michigan operates a Portland cement mill. H: Croll, jr. Eng N 94:438-9 Mr 12 '25
South Dakota's state cement enterprise. F. C. Lincoln. il Eng & Min J 120:365-8 S 5 '25
State's purchase and storage as a means of regulating cement supply and price without state manufacture. C. N. Conner. Good Roads 66:76-8+ Mr '24

CEMENT research
More research work; what the Bureau of standards is doing to solve many problems relating to concrete. F. A. Hitchcock. il diag Concrete 27:30-5 O '25
Some requirements in the study of Portland cement. T. Merriman. Eng N 93:105-6 Jl 17 '24; Discussion. 93:313 Ag 21 '24
What properties of and methods of making cement require further investigation? P. H. Bates. Am Soc T M Pro 23 pt 2:160-71 '23

CEMENT securities company
Cement securities to be dissolved. Concrete (cement mill sec) 26:4 Ja '25

CEMENT slabs
Cement building slabs. Can Eng 46:482 Ap 29 '24

CEMENT storage
Alpha Portland cement co. completes two stockhouses. A. J. Lindquist. il Concrete 24:sup73 My '24
Baled straw as a support for cement in storage sheds. F. M. Balsley. Eng N 92:83 Ja 10 '24
Colorado Portland cement co. erects new silo storage bins. E. J. Strock. il diags plan Concrete 25:sup35-8 S '24
Design of reinforced-concrete circular bins for the storage of cement. H. A. Ward. Am Concrete Inst Pro 21:239-47; Discussion. 248-51 '25
Effect of storage of cement up to five years. D. A. Abrams. Eng N 92:931 My 29 '24; Same. Eng & Contr (Bldgs) 61:1200-1 My 28 '24; Same. Concrete 24:225 Je '24; Same. Munic & Co Eng 67:95-7 Ag '24; Same. Am Arch 126:253 S 10 '24
Marquette company completes cement storage warehouses. il Concrete 23:sup100-1 D '23
New silo for cement storage in England. il Concrete 27:19 Jl '25
Square and triangular cement storage warehouses. il Eng N 92:185 Ja 31 '24

CEMENTING
Cementing a brass liner in casing. J. R. Furey. diag Coal Age 27:619 Ap 23 '25; Same. Eng & Contr (W W) 63:1057 My 13 '25
Cementing pipe in bore holes. Eng & Contr (G C) 64:426 Ag 19 '25
See also Petroleum—Well cementing

CEMENTS
See Adhesives

CEMETERIES
See Mortuary chapels

CEMETERY receiving vaults
Concrete masonry for receiving vaults. C: F. Dingman. il Concrete 25:99 S '24

CENSUS
See United States—Population

CENTERING
Bolt turning machine and its auxiliary centering device. il diags Ry Mech Eng 98:382-4 Je '24
Centering device. H. Ljungquist. diag Mach 31:811-12 Je '25
Centering from both ends in a turret lathe. H. W. Cable. Am Mach 60:974 Je 26 '24
Fixture to center square stock. W: Denton. il Am Mach 62:664 Ap 23 '25
Indicator for milling machine. D. A. Baker. diag Mach 31:394 Ja '25

CENTOVALLI railway
Centovalli railway marks new era for Switzerland. Ry R 74:1258-9 Je 28 '24

CENTRAL Aguirre sugar company
Annual report to stockholders for 1923. Comm & Fin Chr 117:2784 D 22 '23
Annual report to the stockholders for 1924. Comm & Fin Chr 119:3022 D 27 '24

CENTRAL America
See also Mines and mineral resources—Central America; Railroads—Central America

Commerce

Caribbean markets for American goods. H. Lazo. U S Bur For & Dom Com Trade Information Bul 329:1-17 '25
Markets for flour in Central America. U S Bur For & Dom Com Trade Information Bul 279:1-16 '24

Economic conditions

Central American currency and finance. J: P. Young. 258p [bibliog. p. 249-54] Princeton univ. press, Princeton '25

CENTRAL banks. See Banks and banking—Central banks

CENTRAL electric railway association
Annual meeting, Indianapolis, Jan. 24-25. Elec Ry J 63:179-80 F 2 '24
Annual meeting, Dayton, Ohio, Jan. 8-9. Elec Ry J 65:109-11 Ja 17 '25
Summer meeting, French Lick Springs, Ind., June 2-4. Elec Ry J 65:931-8 Je 13 '25

CENTRAL electric railway master mechanics association
Meeting, Anderson, Ind., Sept. 10. Elec Ry J 66:442-3 S 19 '25
Organization meeting, Lima, Ohio, March 12. Elec Ry J 65:477-8 Mr 21 '25

CENTRAL heating systems. See Heating from central stations

CENTRAL leather company
Annual report, 1923. Comm & Fin Chr 118: 1265-6 Mr 15 '24

CENTRAL mining and investment corporation, limited
General meeting, 20th, London. Economist 100:1033-9 My 23 '25

CENTRAL of Georgia railroad
Annual efficiency meeting, 13th, Macon, Ga., Feb. 23-24. Ry Age 78:751-2 Mr 14 '25
Annual report, 29th, 1923. Comm & Fin Chr 118:2068-70 Ap 26 '24; Same. Ry Age 76: 1181-2 My 10 '24
Annual report, 30th, for the year ended Dec. 31, 1924. Comm & Fin Chr 120:1904-6 Ap 11 '25; Same. Ry Age 78:1011-13 Ap 18 '25; Excerpt. Ry R 76:713-14 Ap 11 '25
Central of Georgia railway improves busy line. G: E. Boyd. il maps Ry R 77:507-12 O 3 '25
Central of Georgia reconstructs Columbus-Birmingham line. il map Ry Age 79:75-8 Jl 11 '25
Central of Georgia revising line. Ry Age 77:207 Ag 2 '24
Central of Georgia spectacular traffic increase. map Ry Age 76:1141-2 My 10 '24
Co-operation—not an idle dream; practical results on the Central of Georgia railway. R. V. Wright. il Ry Age 78:259-65 Ja 24 '25
Development work of a railroad. il Manuf Rec 86:435 pt 2 D 11 '24

CENTRAL Pacific railroad
Epic of the overland. R. L. Fulton. 109p A. M. Robertson, San Francisco '24

CENTRAL railroad of New Jersey
Annual report, 1923. Comm & Fin Chr 119:450 Jl 26 '24
Annual report for the year ended Dec. 31, 1924. Comm & Fin Chr 120:2806-7 My 30 '25; Ry R 76:997-9 My 30 '25

CENTRAL states cooperative league
Formation of Central states cooperative league. Monthly Labor R 21:852 O '25

CENTRAL states co-operative wholesale society
Co-operative chain stores of the Illinois miners. C. E. Warne. Univ J of Business 2:310-27, 432-54 Je-S '24

CENTRAL-station lighting service. See Electric utilities—Service

CENTRAL stations. See Electric plants (central stations)

CENTRAL steel company
Central steel co. Moody's Inv Serv 17:195 Je 11 '25
Central steel company first 8s, 1941. Moody's Inv Serv 16:431 N 28 '24
Official statement in connection with the listing of its first mortgage bonds. Comm & Fin Chr 117:2226-8 N 17 '23

CENTRIFUGAL casting. See Casting, Centrifugal

CENTRIFUGAL fans. See Fans, Mechanical

CENTRIFUGAL force
Le calcul des disques tournants. P. Caufourier. Génie Civil 84:15-17 Ja 5 '24
Computes centrifugal tension. W. F. Schaphorst. chart Iron Age 114:80 Jl 10 '24
Determination of size and distribution of size of particle by centrifugal methods. T. Svedberg and J. B. Nichols. il diag Am Chem Soc J 45:2910-17 D '23

CENTRIFUGAL machines
Broadening the field for centrifugal separation. diags Chem & Met Eng 29:1022-3 D 3 '23
Centrifugal dryers and separators, their construction and use. E. A. Alliott. diag Chem Age (Lond) 10:236-8 Mr 8 '24; Abstract. Mech Eng 46:357-8 Je '24
Centrifugal machines at the British Empire exhibition. il diags Engineering 117:817-20, pl 82 Je 27 '24
Centrifugal separation. L. D. Jones. Chem & Met Eng 29:883-4 N 12 '23
Centrifugal separation of gas-works emulsions. T. H. Prater. Gas J (Lond) 166:118-19 Ap 9 '24; Abstract. Gas Age 54:188 Ag 9 '24
Centrifugal treatment of Diesel fuel oil. L. H. Clark. il Marine Eng 30:301-2 My '25
Clarification and dehydration of liquids; some applications of the Sharples supercentrifuge. il Chem Age (Lond) 11:396-7 O 18 '24
Developments in centrifugal concentration. il Eng & Min J 116:923-4 N 24 '23
Flywheel power or centrifugal force. J: W. Brassington. diags Paper 34:365-7 Je 19 '24
Industrial filtration. S. G. Ure. il diags Soc Chem Ind J (Chem & Ind) 43:976-82 O 3 '24
Salt centrifugals in action on chlorides. il Chem & Met Eng 32:55 Ja 12 '25
Sandverdichten durch schleudern. il diag Zeit Ver Deutsch Ing 69:135-6 Ja 31 '25
Sharples centrifugal separating machine. il diags Engineering 119:226-8, 230 F 20 '25
Ultra-centrifuge, a new instrument for the determination of size and distribution of size of particle in amicroscopic colloids. T. Svedberg and H. Rinde. il diags Am Chem Soc J 46:2677-93 D '24
Use and development of centrifuge for petroleum refinery emulsions. E. E. Ayres, jr. Nat Pet N 15:32c-e O 10 '23; Same abr. Chem & Met Eng 29:931 N 19 '23; Same cond. Oil Paint & Drug Rep 104:20-1 O 22 '23

See also Casting, Centrifugal; Casting machines; Filters and filtration (technical chemistry); Rotary pans

CENTRIFUGAL pumps. See Pumps, Centrifugal

CERAMIC industries
Ceramics developments. Chem & Met Eng 32: 103-4 Ja 19 '25
Tunnel kiln; list of kilns in the country. bibliog il diags plan Brick & Clay Rec 66:22-36 Ja 6 '25

See also Brick industry and trade; Cement industry and trade; Clay industries; Enamel and enameling; Fire brick; Glass trade; Kilns; Pottery industry; Refractory materials; Terra cotta

Directories

Directory of ceramic raw materials, supplies and equipment. Am Cer Soc J 8:supl-94 S '25

Belgium

China and glass trades. Dun's Int R 44:69-70+ O '24

Czechoslovakia

Ceramic industry in Czechoslovakia. R. Barta. Am Cer Soc J (Bul) 7:312-15 Ag '24

United States

American ceramics. R. C. Purdy. Am Cer Soc J (Bul) 8:425-7 S '25

CERAMIC materials
Directory of ceramic raw materials, supplies and equipment. Am Cer Soc J 8:supl-94 S '25
Raw materials of the ceramics industry. il Chem & Met Eng 32:618-20 Jl '25
Segregation in bins. T. W. Garve. il diags Am Cer Soc J 8:666-70 O '25
Talc as the principal body ingredient in vitrified ceramic bodies. H. M. Kraner and S: J. McDowell. diags Am Cer Soc J 8:626-35 O '25

CERAMIC research
Ceramics at the Bureau of standards. il Chem & Met Eng 32:423-5 Ap '25
Coöperative research in ceramics. A. V. Henry. Am Cer Soc J (Bul) 8:367-9 Ag '25
Coordinating research and technical information with plant control. J. A. Jeffery. il Am Cer Soc J (Bul) 7:141-52 My '24
Economic factors that make research in industry important. W: R. Mattson. Am Cer Soc J (Bul) 7:153-8 My '24
Research results applied to the plant; why, when, and how. M. W. Blair. Am Cer Soc J (Bul) 4:283-6 Je '25
Study of kiln losses—an example of value accrued from coöperative research. G: A. Bole. Am Cer Soc J (Bul) 8:352-9 Ag '25
Suggested scheme of collaboration by ceramic institutes and trade associations. Am Cer Soc J (Bul) 8:205-8 My '25
Value of research emphasized by American ceramic society. Chem & Met Eng 30:266-70 F 18 '24

See also Clay products institute

CERAMIC society (England)
Ceramic society; development and present status. Chem & Met Eng 32:167 Ja 26 '25
14th meeting of the Refractory materials section, Sept. 18-19. Gas J (Lond) 167:935-6 S 24 '24

CERAMICS
Ceramic drying and driers. A. E. Stacey, jr., and H. B. Matzen. il diags Am Cer Soc J 8:525-33 Ag '25
Ceramic raw materials, driers and drying. G. F. Metz. il Am Cer Soc J 7:504-8 Jl '24
Early stages of the science of ceramics in America. K: Langenbeck. Am Cer Soc J (Bul) 8:306-9 Jl '25
Oxidation of ceramic wares during firing. G: A. Bole and F: G. Jackson. Am Cer Soc J 7:163-74, 223-37, 382-96, 427-9, 532-8, 634-42, 656-62; 8:534-40 Mr-S '24, Ag '25
Report of committee on ceramics. Am Gas Assn Industrial Gas sec v 6:615-23 '24
What the industries want from the ceramic artist. F: H. Rhead. Am Cer Soc J (Bul) 8:158-64 Ap '25
What the industries want from the ceramic scientist. R. D. Landrum. Am Cer Soc J (Bul) 8:36-40 F '25

See also Brickmaking; Casting; Clay; Clay industries; Clay products; Earthenware; Enamel and enameling; Fire brick; Glass; Glass manufacture; Glazes; Kilns; Pencil leads; Porcelain; Pottery; Pottery industry; Refractory materials; Sanitary ware; Slips (ceramics); Stoneware; Terra cotta; *also* American ceramic society

Bibliography

Ceramic abstracts. Published in monthly numbers of Journal of the American ceramic society
Descriptive bibliography of scumming and efflorescence. F. G. Jackson. Am Cer Soc J (Bul) 8:376-401 Ag '25
Publications relating to ceramics. Am Cer Soc J (Bul) 8:79-88 F '25
Revised list of publications on ceramic investigations, Bureau of mines. L. E. Geyer. U S Bur Mines Rep of Invest 2645:1-7 O '24 (typew)

Definition

Meaning of "keramos" once more. W. A. Oldfather. Am Cer Soc J (Bul)7:114-16 Ap '24

Study and teaching

Ceramic engineering correspondence courses at North Carolina State college. A. F. Greaves-Walker. Am Cer Soc J (Bul) 8:361-3 Ag '25
Ceramic extension education at Iowa State college. P. E. Cox. Am Cer Soc J (Bul) 8: 369-72 Ag '25
Notes on ceramic engineering education. H. Wilson. Am Cer Soc J (Bul) 8:519-26 O '25
Thirtieth anniversary of ceramic education. Am Cer Soc J (Bul) 8:35-58, 89-125 F-Mr '25
Vocational training in ceramics. R. C. Purdy. Am Cer Soc J (Bul) 8:372-4 Ag '25

CEREALS. See Grain; Oats; Wheat

CERELOSE. See Dextrose

CERIUM
Cerium. Gas Age 53:392 Mr 29 '24
Cerium and thorium. J. P. Bonardi. U S Bur Mines Bul 212:19-66; Bibliography. 66-70 '23
Marketing of rare metals and minerals. H. C. Meyer. Eng & Min J 118:285-6 Ag 23 '24
Molybdenum, cerium and related alloy steels. H. W. Gillett and E. L. Mack. 299p [bibliog. p. 282-92] Chemical catalog co. '25
Photomicrographic evidence of the crystal structure of pure cerium. E. E. Schumacher and F. F. Lucas. il Am Chem Soc J 46: 1167-9 My '24
Preparation and some properties of metallic cerium. H. C. Kremers and H. Beuker. Am Electrochem Soc Trans v 47 (preprint 19):213-20 Ap '25

CERIUM oxide
Catalytic effects of the oxides of cerium and thorium, and their bearing on the theory of the Welsbach mantle. R: L. Swan. diag Chem Soc J 125:780-5 Ap '24

CERRO de Pasco copper corporation
Cerro de Pasco increases copper output to 6,500,000 lb. monthly. A: B. Parsons. il map Eng & Min J 119:979-81 Je 13 '25

CERTAIN-TEED products corporation
Making felt from waste. A. W. Allen. il Chem & Met Eng 30:45-8 Ja 14 '24

CERTIFIED public accountants. See Accountants, Public

CERUSE. See White lead

CESIUM
Determination of the vapour pressures of caesium and rubidium, and a calculation of their chemical constants. D. H. Scott. diag Philos Mag 6th ser 47:32-50 Ja '24
Electron emission from adsorbed films on tungsten. K. H. Kingdon. Phys R 24:510-22 N '24

CESIUM—*Continued*
Extraction of cesium from pollucite. V: Lenher, G: Kemmerer and E. Whitford. Ind & Eng Chem 16:1280 D '24
Ionization of caesium vapor and the mobility of electrons in the Bunsen flame. B. T. Barnes. diags Phys R 23:178-88 F '24
Low-voltage arcs in rubidium and cæsium vapours. F. H. Newman. Philos Mag 6th ser 50:463-70 Ag '25
Low voltage excitation of the spectrum of caesium. A. L. Hughes and C. F. Hagenow. diag Phys R 24:229-33 S '24
Optical- constants of solid caesium. J. B. Nathanson. diags Phys R 25:75-84 Ja '25
Photo-electric effect of caesium vapor. J. Kunz and E. H. Williams. diag Phys R 22: 456-60 N '23
Photo-electric ionization of caesium vapor. P. D. Foote and F. L. Mohler. diag Phys R 26:195-207 Ag '25

CESIUM chloroplatinate
Solubilities in water of rubidium and cesium chloroplatinates. E. H. Archibald and L. T. Hallett. Am Chem Soc J 47:1314-18 My '25

CESIUM halides
Compressibilities of the chlorides, bromides and iodides of lithium, rubidium and cesium. T. W. Richards and E. P. R. Saerens. diag Am Chem Soc J 46:934-52 Ap '24

CESIUM hydroxide
Studies on the swelling of cotton cellulose. G: E. Collins. Textile Inst J 16:T123-6 My '25

CESIUM iodides
Crystal structures of cesium tri-iodide and cesium dibromo-iodide. R: M. Bozorth and L. Pauling. Am Chem Soc J 47:1561-71 Je '25

CESSPOOLS
Utility of cesspools for municipal sewage disposal and comparative cost of cesspools and sewers. R. W. Horne. Eng & Contr (W W) 61:119-20 Ja 9 '24

CETYL alcohol
Rapid preparation of cetyl alcohol. M. A. Youtz. Am Chem Soc J 47:2252-4 Ag '25

CEYLON
See also Hydroelectric plants—Ceylon; Radio communication—Ceylon

CHAIN blocks
Ball bearing spur gear chain block. il Marine Eng 30:176 Mr '25; Power Pl Eng 29:411 Ap 1 '25; Eng N 94:914 My 28 '25; Ry Mech Eng 99:311 My '25
Morris chain-block. il Textile World 67:4153 Je 27 '25

CHAIN doors. See Furnace doors

CHAIN gear
Application of silent chain drive to machine tools. C: R. Weiss. il Am Mach 61:873-6 D 4 '24; Abstract. Iron Age 114:630 S 11 '24
Casings and lubrication for silent chain drive. P. Wheeler. il Brick & Clay Rec 65:25-7 Jl 8 '24; Same. Concrete 25:sup13-14 Jl '24
Chain adjustment. diags Automobile Eng 15: 169 Je '25
Chain power transmission as a feature of efficient building design. L. Spillan. il Eng & Contr (Bldgs) 62:1387-9 D 24 '24
Detachable link-chain drives. G: G. Dana. diags Mach 31:876-8 Jl '25
Determining the length of sprocket chains. T. E. Welsh. Mach 31:820 Je '25
Efficiency of chains as a power transmitting agent. H. Seymour. diags Elec R (Lond) 94:484-6 Mr 28 '24
Geared shunting locomotive. il diags Engineer 139:432-4, 436 Ap 17 '25
High-speed roller chains. G. M. Bartlett. il Mach 31:22-3 S '24
Improved design of chain sprocket teeth. C: R. Weiss. diags Am Mach 61:993-6 D 25 '24; Same. Am Pet Inst Bul 6:63-8 S 4 '25
Mechanical transmission of power through chains. C: R. Weiss. Am Pet Inst Bul 6: 62-3 S 4 '25; Same. Pet Age 16:55 S 15 '25
Method of checking parallelism of shafts on a chain drive. D. A. Hampson. diag Ind Eng 83:501 O '25
Morse chain drive in clay plants. il Brick & Clay Rec 65:400+ S 16 '24
Path of roller centers in chains. G. M. Bartlett. diags Mach 30:344-6 Ja '24
Practical methods of enclosing and lubricating silent chain drives. P. Wheeler. il Ind Eng 83:133-5 Mr '25
Renold hollow-stud steel driving chain. diags Engineering 118:260 Ag 22 '24
Silent chain drive for planer. D. A. Hampson. il Mach 31:922 Jl '25
Silent chain final drive is used on Drewry railcars. M. W. Bourdon. il diag Automotive Ind 49:1152-4 D 6 '23
Some details of power drives with individual motors and silent chains. D. W. Taylor. il Ind Eng 83:214-18 My '25
Where silent chain is used. C. J. Priebe. il Am Mach 61:145-8 Jl 24 '24

Lubrication
Lengthening the life of the chain drive. A. F. Brewer. il Ind Management 68:266-72 N '24
Lubrication of driving chains. Textile World 66:2533+ N 1 '24
Die mechanische schmierung der eisenbahnachsen. W. Friedrich. il diags Zeit Ver Deutsch Ing 68:877-9 Ag 23 '24

Manufacture
Light weight features new type of conveyor chain. il diags Automotive Ind 51:694 O 16 '24
Story of Morse chain. C. J. Priebe. il plan Am Mach 60:737-40, 811-14, 887-9, 959-62; 61:69-71 My 15, 29, Je 12, 26, Jl 10 '24
See also Sprocket wheels

CHAIN stores
And now—the mail-order chain of department stores. G. A. Nichols. Ptr Ink 132:33-4+ S 24 '25
Can chain stores eliminate advertised brands? F. D. Bristley. Ptr Ink 132:52 S 17 '25
Cash-and-carry hits the wholesale field. Ptr Ink 127:10+ My 22 '24
Chain grocers on road to billion-dollar annual sales. Ptr Ink 129:33-4+ O 9 '24
Chain store and distribution. W. S. Hayward. Ann Am Acad 115:220-5 S '24
Chain-store growth brings new chances to sell. G. A. Nichols. Ptr Ink M 9:17-18+ S '24
Chain store sales not a reliable index of business. W. I. King. Annalist 25:771 Je 8 '25
Chain stores, their management and operation. W. S. Hayward and P. White. 2d ed., rev. & enl. 449p McGraw-Hill '25
Cut prices, inside discounts and concessions. Sales Management 9:269-70+ S 5 '25
Develop the individual to build the business. R. Dickinson. Ptr Ink M 9:29-30 Jl '24
English chain-store's selling methods; system of Lord Vestey works. Ptr Ink 128:132+ Jl 3 '24
Giving the retailer a paddle. H. R. Barnett. Ptr Ink 130:177-8+ Mr 12 '25
Great chain store movement. J: Oakwood. Annalist 26:275-6 S 4 '25
Have chain groceries reached the saturation point? Comm & Fin 14:1361-3 Jl 15 '25
Here is one retailer who likes chain competition. Ptr Ink 130:108+ F 26 '25
Hints for salesmen who call on chain stores. Ptr Ink 130:84 Ja 22 '25
How much shall we sell the chains? R. W. Johnson. Sales Management 9:211-12 Ag 22 '25
How we invest our surplus earnings. F. W. Albrecht. il System 48:39-41+ Jl '25
How we protect our sources of supply. J. M. McDonald. Sales Management 9:13-14+ Jl 11 '25
Independent grocers not ready to surrender to chains. Ptr Ink 130:125-6 F 5 '25
Jobber's right to influence manufacturers not to sell chain stores. Ptr Ink 126:145-6+ Ja 10 '24

CHAIN stores—*Continued*
Justification of the chain store in our present system of distribution. E. C. Sams. Ann Am Acad 115:226-35 S '24
Linking department stores. Comm & Fin 14: 502 Mr 18 '25
Mass buying and mass selling, too; chain department stores. E: A. Filene. Nation's Business 12:24-6 S '24; Discussion. 12:34-6 N '24
Sales of grocery chain stores. Survey of Cur Business 44:20 Ap '25
Sears, Roebuck to develop over-the-counter trade. Ptr Ink 129:86 D 25 '24
Some aspects of chain-store development. W. H. Mullen. Harvard Business R 3:69-80 O '24
Store companies. Moody's Inv Serv 17:162 My 14 '25
Survey of merchandising trends in the drug field. R. W. Johnson. Sales Management 8: 661-3+ My 2 '25
We used Henry Ford's principle that—the way for the little man to use the best methods is to get big. E. Meaker. System 47:333-5+ Mr '25
Who will dominate in the field of distribution? S. Bent. Am Bankers Assn J 18:321-2+ N '25
Will chains or independents win battle of the stores? E. Hofsoos. Forbes 16:896+ O 1 '25
See also Five- and ten-cent stores; *also* Central states co-operative wholesale society

Accounting
Chain store accounting. H. C. Greer. 312p McGraw-Hill '24
System of control for chain stores. Harvard Business R 3:361-76 Ap '25

Advertising
Are chain-store advertisers on the wrong road? J. M. Fly. Ptr Ink 131:129-30+ Je 25 '25
Chain grocers see need for national advertising. Ptr Ink 132:125+ S 17 '25
Chicago chain stores and advertisers co-operate in poster campaign. Sales Management 9:209+ Ag 22 '25
Competing chain-store systems combine in advertising. Ptr Ink 125:117-18 N 15 '23
Largest grocery chain takes a hand at institutional advertising; A. & P. stores in Washington district. Ptr Ink 129:107-8 D 11 '24
More about chain-store advertising. W. W. Johnson. Ptr Ink 132:135-6 Jl 23 '25

Finance
Opportunities for investors. R. V. Sykes. Forbes 16:138-9 My 1 '25

Statistics
Chain store sales continue to increase. Ptr Ink 131:42 Je 4 '25
Chain store sales for September. Ptr Ink 129:138 O 16 '24
Chain-store sales, 1921-1924. Survey of Cur Business 30:154 F '24 [continued quarterly]
Chain stores had good year in 1924. Ptr Ink 130:88 Ja 15 '25
Gain in chain store sales. Ptr Ink 131:97 Je 11 '25
Gain in February chain store sales. Ptr Ink 130:144+ Mr 19 '25
Increase in chain store sales in Federal reserve district of New York. Comm & Fin Chr 117:2372 D 1 '23 [continued monthly]
November chain store sales show increases. Ptr Ink 129:154 D 11 '24
Sales reach nearly three billions. Index p 13-14 O '24

CHAINS
D-links for colliery tram-shackles. W. R. D. Jones. il Engineer 139:sup78-80 My 29 '25
Load on double-sling chains. D. Fliegelman. diags Power 59:306 F 19 '24
Malleable iron conveyor chains and their manufacture. W. H. Atherton. il diags Cassier's Ind Management 12:116-24 Ja '25
Stresses in sling chains. J. P. Doolan. Eng N 94:739 Ap 30 '25
Using crane chains with safety. A. V. de Forest. Iron Tr R 75:942-3 O 9 '24
Ways in which sling chains are abused. D. Fliegelman. il Ind Eng 83:223-7 My '25
See also Chain gear; Tire chains

Advertising
How our advertising is creating a new market for chain; trade paper and direct mail advertising campaign. C: M. Luthy. Sales Management 6:815 Ap '24

Manufacture
Automatic milling operations performed on small pieces of cylindrical machine-steel stock in producing binder chain links. il diag Mach 31:722 My '25
Effect of annealing hoisting sling chains. A. V. de Forest. Ind Eng 82:545 N '24
Einfluss der vorbehandlung auf die kerbzähigkeit von kettenwerkstoff in der kälte. A. Pomp. Stahl & Eisen 45:1180-4 Jl 9 '25
Fixture for forming wire links. S. W. Brown. diags Mach 32:50 S '25
Machine for making chain links. il Engineer 139:469 Ap 24 '25
Malleable chain in the making. il Am Mach 62: 888-9 Je 4 '25
Orange county ironmaking; historic chain made at Sterling iron works. E. C. Kreutzberg. il Iron Tr R 75:157-60 Jl 17 '24
Wire chain making. il diags Engineer 139: 276-7, 292-3 Mr 6-13 '25

Testing
Chain; effect of proofing and annealing on brittleness in large chain links. C. G. Lutts. il Am Soc T M Pro 24 pt 2:651-9; Discussion. 660-3 '24
Essais officiels sur la résistance des chaînes exécutés en Hollande. Génie Civil 86:387-8 Ap 18 '25
Tests on cast steel chain cable determine effect of the stud. Marine Eng 30:238-9 Ap '25

CHAINS, Chemical
Further X-ray measurements of long-chain compounds and a note on their interpretation. A. Müller and G. Shearer. Chem Soc J 123:3156-64 D '23
Nature of the alternating effect in carbon chains; a comparative study of the directive efficiencies of oxygen and nitrogen atoms in aromatic substitution. E. L. Holmes and C. K. Ingold. Chem Soc J 127: 1800-21 Ag '25
Nature of the alternating effect in carbon chains; the directive influence of the nitroso-group in aromatic substitution. C. K. Ingold. Chem Soc J 127:513-18 Mr '25
X-ray investigation of certain organic esters and other long-chain compounds. G: Shearer. Chem Soc J 123:3152-6 D '23

CHAINS, Tire. See Tire chains

CHALCOCITE
Primary chalcocite at Cananea, Mexico. G. J: Mitchell. il Eng & Min J 117:880-2 My 31 '24

CHALCOPHYLLITE
Chalcophyllite from Chile. E. V. Shannon. Am J Sci 5th ser 7:31-6 Ja '24

CHALCOPYRITE
Magmatic chalcopyrite, Park county, Montana. T. S. Lovering. il Econ Geol 19:636-40 N '24
Oxidation products derived from chalcopyrite. R. Blanchard and P. F. Boswell. il diags Econ Geol 20:613-38 N '25
Primary relationships and unusual chalcopyrite in copper deposits at Parry Sound, Ontario. G. M. Schwartz. il Econ Geol 19: 209-13 Mr '24

CHALK
See Whiting

CHAMBER of commerce buildings
New home of the Jersey City chamber of commerce. il plans Bldg Age 47:110-11 O '25

CHAMBER of commerce buildings—*Continued*
Questioning precedent saved thousands of dollars; Boston Chamber of commerce building. J. A. McKibben. plan System 48:214+ Ag '25

CHAMBER of commerce of the United States of America
Annual meeting, 12th, Cleveland, May 6-8. Am Mach 60:752a-b My 15 '24; Automotive Ind 50:1058-65 My 15 '24; Iron Tr R 74:1316-17 My 15 '24; Oil Paint & Drug Rep 105:19+ My 12 '24; Ry Age 76:1205-7 My 17 '24; Nation's Business 12:5-46 Je 5 '24
Annual convention, 13th, Washington, May 20-22. Am Mach 62:868a-b My 28 '25; Automotive Ind 52:927-30 My 28 '25; Bradstreet's 53:337, 353 My 23-30 '25; Elec Ry J 65:819-21, 856-7 My 23-30 '25; Eng & Min J 119:904 My 30 '25; Eng N 94:900-1 My 28 '25; Iron Age 115:1585 My 28 '25; Iron Tr R 76:1427 My 28 '25; Oil Paint & Drug Rep 107:21+ My 25 '25; Ptr Ink 131:161-2+ My 28 '25; Ry Age 78:1327-8 My 30 '25; Comm & Fin Chr 120:2887-8 Je 6 '25; Nation's Business 13: 7-28+ Je 5 '25
Chamber of commerce of the United States. J. L. Madden. Spectator 113:41-2+ sec 2 Jl 17 '24
Declarations adopted at annual meeting. Comm & Fin Chr 118:2664-5 My 31 '24
Influence for the country's good. W: H. Taft. Nation's Business 13:11-12 Je 5 '25
Listening in at the Chamber of commerce convention. A. H. Temple. Comm & Fin 14: 1031 My 27 '25
Report of N.P.O.V.A. committee on Chamber of commerce, U.S.A. Oil Paint & Drug Rep 108:53-4 N 5 '25
Report on Chamber of commerce, U.S.A. Oil Paint & Drug Rep 106:46-7 O 29 '24
Six reports review transportation phases; committees appointed by Chamber of commerce of United States make recommendations for national policy. Ry Age 75:961-7 N 24 '23; Ry R 73:757-9, 788-91 N 24-D 1 '23
Temple of American business; United States Chamber of commerce building. B. H. Lambe. il Nation's Business 13:34-9 Ja '25

CHAMBERS of commerce
Chambers of commerce. L. E. Loeber. Special Lib 15:247 D '24
Chambers of commerce of the world, exclusive of the United States. 58p New York Chamber of commerce, New York '24
Fire prevention activities of chambers of commerce. Safety Eng 49:32-4 Ja '25
Local chamber a city's builder. E. Overholser. Nation's Business 13:68-9+ Mr '25
Modern distribution demands upon the chamber of commerce. J. H. Barnes. Ann Am Acad 115:136-41 S '24
Troubles of a chamber in China. J. B. Powell. il Nation's Business 12:26-8 F '24
What your association can do for you. System 47:168-9 F '25
See also International chamber of commerce

CHAMBERS of commerce buildings
Chamber of commerce building, Boston, Mass. il Arch & Bldg 57:1, pl 5-7 Ja '25
Chamber of commerce building, Newark; views and plans. Arch Forum 41:311, pl 77-8 D '24
New Chamber of commerce building, Washington, D.C. Arch & Bldg 57:39, pl 94-8 My '25
Unusual work on office building; new building of Boston Chamber of commerce. il plans Bldg Age 47:118-20 My '25

CHAMBRIER, M. Paul De
Presentation of the Boverton Redwood medal. por Inst Pet Tech J 11:128-32 Ap '25

CHAMFERING machines
Fixtures for chamfering square and splined holes. A. J. Quinlan. diags Am Mach 62: 508 Mr 26 '25

CHAMPAIGN, Illinois
Railroads
Railroad provides facilities for football crowds. O. T. Dunn. il diags Ry Age 78:169-73 Ja 10 '25
Station designed for occasional crowds at Champaign. il diag plan Eng N 93:294-5 Ag 21 '24

CHAMPION rivet company
How plant management influences the sales department. G. A. Nichols. Ptr Ink M 8:37-8+ Ja '24

CHANDLER, Charles Frederick, 1836-1925
Sketch. por Ind & Eng Chem 17:1090-1 O '25

CHANGE houses. See Mine washhouses

CHANGE-MAKING machines
Interborough tries change-making machines. il Elec Ry J 63:880 Je 7 '24

CHANGE of state (physics)
Heat and change of state. il Am Gas J 122: 227-8, 251-2, 269, 289-90, 311, 333, 353, 373, 395-6, 419, 443, 465, 487, 507, 527-8, 547; 123: 6-8, 27, 49, 73, 99, 119, 141, 159-60, 179-80, 201-2, 225, 247, 267-8, 287, 491-2, 513 Mr 14-O 3, 24-31 '25

CHANNELS
Computing backwater curves for surface slopes in streams. J. C. Stevens. diags Eng N 95:550-2 O 1 '25
Erosion extends relief channel far beyond its bounds. C. E. Ramser. il diag map Eng N 94:391-2 Mr 5 '25
Kutter's *n* for rough rock channel excavated by explosives. C. E. Ramser. il Eng N 91: 936 D 6 '23
New method of computing backwater and dropdown curves. A. G. Husted. diags Eng N 92:719-22 Ap 24 '24; Discussion. J. J. Traill. 92:1031 Je 12 '24
See also Canals; Rivers; Water flow; Waterways

CHAPELS
Chapel and dormitory of the asylum of St Vincent de Paul, Tarrytown, N.Y.; views and plans. Am Arch 127:pl 7-10 Ja 14 '25
Chapel for College of New Rochelle, New Rochelle, New York; views. Arch Rec 55:33-42 Ja '24
Chapel for the Ursuline convent, New Orleans, Louisiana; views. Arch Rec 57:143-7 F '25
Chapel of Notre Dame, Trinity College, Washington, D.C. il (front) Arch & Bldg 57:21, pl 45-6 Mr '25
Chapel of Our Lady of Victory, St Catherine's college, St Paul, Minn. H. A. Sullwold. il plans Am Arch 126:615-18, pl 209-16 D 31 '24
A marriage chapel; student work, Beaux-arts institute of design. il Am Arch 126: 357, 360-2 O 8 '24
Memorial chapel, Bishop Ridley college, St Catherine's, Ont. Arch Forum 40:pls54-6 Ap '24
See also Mortuary chapels

CHAPELS, Mortuary. See Mortuary chapels

CHAPMAN valve manufacturing company
Adapting handling methods to plant expansion. M: W. Potts. il Ind Management 70: 77-82 Ag '25

CHARACTER
Pitfalls of the employment interview. D. A. Laird. Ind Management 68:58-62 Jl '24
See also Graphology; Phrenology

CHARCOAL
Adsorption by activated sugar charcoal; proof of hydrolytic adsorption. E. J. Miller. Am Chem Soc J 46:1150-8 My '24
Adsorption of binary mixtures by animal charcoal and a comparative study of the adsorptive power of different varieties of charcoal. N. A. Yajnik and T. C. Rana. J Phys Chem 28:267-78 Mr '24
Adsorption of vapors by charcoal. A. S. Coolidge. diag Am Chem Soc J 46:596-627 Mr '24

CHARCOAL—*Continued*
Adsorptive capacity of wood charcoal for dissolved substances, in relation to the temperature of carbonisation. J. C. Philip and J: Jarman. J Phys Chem 28:346-50 Ap '24
Charcoal as by-product of waste liquor. Paper 34:190-1 My 22 '24
Charcoal, the chemical truant officer; a new process for catching volatile solvents and putting them back to work. I. Ginsberg. diags Sci Am 131:328 N '24
Heat of adsorption of oxygen by charcoal. E. A. Blench and W: E: Garner. il Chem Soc J 125:1288-95 Je '24
Identification of norit and other wood charcoals. H. G. Tanner. il Ind & Eng Chem 17:1191-3 N '25
Low temperature oxidation at charcoal surfaces; the behaviour of charcoal in the absence of promoters. E. K. Rideal and W. M. Wright. Chem Soc J 127:1347-57 Je '25
Method for reducing the percentage of phosphorus in Swedish iron by diminishing the phosphorus in the charcoal. H. von Eckermann. Iron & Steel Inst J 111:379-94 no 1 '25
Old ties burnt for valuable charcoal. Ry R 75:371 S 6 '24
Preparation of an ash-free wood charcoal. L. H. Reyerson. Ind & Eng Chem 17:1114 N '25
La production du charbon de bois pour les automobiles à gazogène. P. Razous. diags Génie Civil 86:607-11, 628-32 Je 20-27 '25
Relation between the hydrogen content of certain charcoals and some other properties. H. H. Lowry. diags Am Chem Soc J 46: 824-46 Ap '24
Sorption of iodine and catalytic decomposition of hydrogen peroxide solution, by Norit charcoals. J. B. Firth and F. S. Watson. bibliog J Phys Chem 29:987-94 Ag '25
Study of the rate of oxidation of certain charcoals. H. H. Lowry and S. O. Morgan. Am Chem Soc J 46:846-52 Ap '24
Ueber die elektrische leitfähigkeit von holzkohle und koks. R. Durrer. il diags Stahl & Eisen 44:465-8 Ap 24 '24
Waste from cannery products furnishes oil and fuel. il Management & Adm 8:275-6 S '24
See also Bone black; Carbon, Activated

CHARCOAL iron
Charcoal pig iron. Iron Age 114:1406 N 27 '24
New plant rolling charcoal iron. il diag Iron Age 115:1486-8 My 21 '25
Producing charcoal iron tubes. G. H. Woodroffe. il Iron Tr R 74:482-7 F 14 '24
Replaces forge plant with charcoal bloomary. E. C. Kreutzberg. il Iron Tr R 76:1319-21 My 21 '25

CHARCOAL iron workers journal, United States association of. See United States association of charcoal iron workers journal

CHARDONNET, Louis-Marie-Hilaire Barnigaud de, 1839-1924
Sketch. C. F. Cross. Soc Chem Ind J (Chem & Ind) 43:325-6 Mr 28 '24; Soc Dyers & Col J 40:147-8 My '24
Sketch. J: L. Parsons. por Ind & Eng Chem 17:754 Jl '25

CHARGE account (retail trade)
Credit costs in Nebraska retail stores. J. G. Knapp. Univ J of Business 2:169-72 Mr '24
Procedure by which to list and examine all credit requests. C. C. Hermann. System 48:555-6 N '25

CHARGING machines
Elwell-Parker elevator-tructor furnace charger. il Am Mach 63:562 O 1 '25
Saving money in the form of calories; automatic charging of water-gas generators. il Chem & Met Eng 31:853 D 1 '24

CHARITY
See also Community trusts

CHARITY organization buildings
Friendly Inn, a building for the organized charities of Terra Haute, Ind. Am Arch 127:511 Je 3 '25

CHARLESTON, South Carolina

Architecture
Architectural significance of the rice mills of Charleston, S: Lapham, jr. il Arch Rec 56: 178-84 Ag '24
Development of Charleston architecture. A. Simons and S: Lapham, jr. il diags Arch Forum 39:153-60, 299-306; 40:33-40 O, D '23-Ja '24
Some minor Charleston houses. A. Simons. il diags Arch Forum 42:81-8 F '25

Rapid transit
Changing a deficit into a profit in four years; the Charleston consolidated railway & lighting company. Elec Ry J 64:912 N 29 '24
Riding increased by changing car color. il Elec Ry J 66:786 O 31 '25
Traffic problems in a city of 70,000. map plan Elec Ry J 62:1081-7 D 29 '23

CHARLOTTE, North Carolina

Water supply
Accurate control of old filter plant. E. G. McConnell. Can Eng 48:307-8 Mr 10 '25
Development of the Charlotte water works. W. E. Vest. Am Water Works Assn J 13: 655-60 Je '25
Vest station—Charlotte water works. E. G. McConnell. il diags Pub Works 56:109-14 Ap '25

CHARLOTTESVILLE, Virginia

Water supply
New gravity water supply in use at Charlottesville, Va. L. H. Williamson. Eng N 94:689 Ap 23 '25

CHARTERED bank of India, Australia and China
Chartered bank of India, Australia, and China. Economist 98:751-2 Ap 5 '24

CHARTS, Business. See Business charts

CHARTS (calculating)
Alignment charts for engineers and students. W: J. Kearton and G: Wood. 220p Lippincott '24
Alignment charts for tariffs. R. O. Kapp. Elec R (Lond) 96:229-30 F 6 '25
Alinement charts for piping problems. L: E. Partch. diag Power Pl Eng 28:1215-16 D 1 '24
Chart aids estimate and design of spiral concrete columns. J. Feld. Eng N 92:1109 Je 26 '24
Chart for calculating daily production when given the volume of the hole and the first minute pressure above line or atmospheric pressure. R. E. Davis. Nat Pet N 16:66 Ag 27 '24
Chart for calculating speeds and feeds of solid and inserted-blade milling cutters; reference-book sheet. Am Mach 63:749 N 5 '25
Chart gives cast-iron pipe costs. J. R. McComas. Eng N 92:370 F 28 '24
Charts for bars and pipe in torsion. F. Szabo. Am Mach 60:279-82 F 21 '24
Charts for tension in bolts and torsion in shafts. R. Patterson. Am Mach 60:401 Mr 13 '24
Coil spring calculations. J: W. Rockefeller, jr. charts diag Mach 30:874-5 Jl '24
Computes centrifugal tension. W. F. Schaphorst. Iron Age 114:80 Jl 10 '24
Computing load factors graphically. J. H. Phillips. Elec W 83:888 My 3 '24
Contents of tanks. W. F. Schaphorst. chart Textile World 65:3173+ My 10 '24; Same. Heat & Ven 21:56-7 My '24; Same. Ry Mech Eng 98:759-60 D '24; Same cond. Power Pl Eng 28:536 My 15 '24
Drawability of sheets and strips; Marco system of measuring. H. S. Marsh and R. S. Cochran. chart Iron Age 116:1251-2 N 5 '25
Effect of clearance on air-compressor operation. chart diags Power 62:598-9 O 20 '25
Engineering conversion chart. P. W. Swain. Power 60:413 S 9 '24
Estimating the grade of tin concentrates. R. W. Gannett. Eng & Min J 118:380 S 6 '24

CHARTS (calculating)—*Continued*
Fluid friction and heat transference. T: B. Morley. Engineer 137:596-7 My 30 '24; Discussion. G: T. Pardoe. 137:628 Je 6 '24
Graphical chart for determining excess air in the combustion of producer gas. G. M. Peltz. Am Cer Soc J 7:437-41; Discussion. 441-3 Je '24
Graphical charts as an aid to time study. E. C. Van Orsdell. diags Ind Management 70:141-9 S '25
Graphs as time savers. J. F. Clerc. Chem & Met Eng 29:876-7 N 12 '23
Interesting method for extracting any root of any given number. diag Ry R 77:100 Jl 18 '25
Line charts for engineers. W. N. Rose. 95p Dutton '23
Log scale. Power 59:424 Mr 11 '24
Pipe bending chart for rubber engineers. W. F. Schaphorst. India Rubber W 71:148 D '24
Simplifying cost and price figuring; table and slide rule methods from glass industry. R. Rosenthal. Management & Adm 9:535-6 Je '25
Slurry fineness chart. W. R. Bendy. Concrete 24:sup15 Ja '24
Typical examples of single-line diagrams. Power 59:226, 344, 384 F 19-Mr 4 '24
Useful I-beam chart. W. F. Schaphorst. Can Eng 48:177 Ja 27 '25

See also Progress records

CHARTS, Gantt. See Gantt charts

CHATEAU. See Castles

CHATHAM, Ontario
City management at Chatham. C. H. R. Fuller. il map Can Eng 48:421-3 Ap 21 '25

Water supply
Chatham waterworks report. Can Eng 48:306 Mr 10 '25

CHATHAM and Phenix national bank and trust company
Chatham and Phenix merger. Bankers M 110: 134-5 Ja '25

CHATTANOOGA, Tennessee
Chattanooga as a textile center. H. S. Thatcher. Comm & Fin 13:2015-16 O 15 '24
Chattanooga—hub of the South. G. Garrison. il Comm & Fin 13:2003+ O 15 '24
Chattanooga; its past, its present and its outlook. C: W. Howard. il Manuf Rec 87:99-106 Mr 5 '25
Chattanooga's textile development. D. G. Woolf. il Textile World 68:57-60 Jl 4 '25
Modern industry annihilates space; Chattanooga and the Southern railway. J: A. Piquet. il Ind Management 70:6-8 Jl '25

CHATTEL mortgages
Chattel mortgages; why they should not be taken on merchandise stock. N. G. Hall. Credit M 26:24+ Je '24
Law of chattel mortgages and conditional sales. A. B. Griffin. 4th ed. 360p M. Bender & co., inc., Albany '25

CHATTOCK, Richard Alexander
President of the Institution of electrical engineers. por Elec R (Lond) 97:619 O 16 '25

CHAUFFEURS
Chauffeurs' agreement, St Louis, Mo. Monthly Labor R 20:1071 My '25

See also Automobile driving

CHAULMOOGRA oil
Chemical investigation of chaulmoogra oil. T. Hashimoto. diag Am Chem Soc J 47: 2325-33 S '25

CHAULMOOGRIC acid
Structure of chaulmoogric and hydnocarpic acids. R. L. Shriner and R. Adams. Am Chem Soc J 47:2727-39 N '25
Synthesis of the anhydride of hydroxymercuri-ethoxy-chaulmoogric acid and ethyl acetoxy-mercuri-ethoxy-chaulmoograte. A. L. Dean, R. Wrenshall and G. Fujimoto. Am Chem Soc J 47:403-7 F '25

CHECKING accounts. See Banks and banking —Checking accounts

CHECKS
Bank allowed to recover money paid on check after payment stopped. Bankers M 111:183 Ag '25
Bank liable for nominal damages only in returning check for insufficient funds through mistake. Bankers M 111:345-7 S '25
Bank liable in paying check on forged indorsement. Bankers M 108:224-6 F '24
Bank liable to depositor in paying fraudulent checks. Bankers M 111:185-7 Ag '25
Bank paying check on unauthorized indorsement liable to payee. Bankers M 110:481-5 Mr '25
Check clearance in Federal reserve banking system. W: Gregg. Credit M 26:11-12+ S '24
Check list method of auditing and bookkeeping. F. W. Richardson. 4th ed. 100p Accounting systems co., inc., P.O. box 236, City Hall station, N.Y. '24
Check payable after drawer's death. Bankers M 109:221-3 Ag '24
Checks payable to corporation deposited in officer's account. Bankers M 108:891-3 Je '24
Le chèque, théorie et pratique. J. Bouteron. 918p Dalloz, Paris '24
Decision in new par clearance suit. Am Bankers Assn J 17:515-16 F '25; Same. Fed Res Bul 11:100-7 F '25
Decision of the United States circuit court of appeals in the case of city of Douglas v. Federal reserve bank of Dallas. Fed Res Bul 11:30-2 Ja '25
Depositor's duty to examine canceled checks for forged signatures. Bankers M 111:27-8 Jl '25
Dollar takes to wings. R. Hobson. Am Bankers Assn J 17:77-8+ Ag '24
Drawer liable to purchaser of check signed in blank and wrongfully transferred. Bankers M 110:827-31 My '25
Federal reserve bank liable in forwarding check for collection direct to drawee bank. Bankers M 108:563-8 Ap '24
Holder in due course of altered check may enforce payment according to original tenor. Bankers M 110:657-8 Ap '25
How crooks attack your bank account. W. Bishop. Nation's Business 12:23-4 Ja '24
How the Federal reserve has made checks more widely acceptable. W. R. Burgess. il diags Am Bankers Assn J 18:135-8 S '25
Indorsements on checks forged by payee's agent. Bankers M 109:27-30 Jl '24
It pays to risk cashing checks. T: J. Malone. Nation's Business 11:56+ D '23
Law of forged and altered checks. J: E. Brady. 528p Brady pub. corp., New York '25
Lead pencil check. T: B. Paton, jr. Am Bankers Assn J 17:456 Ja '25
Liability of bank as guarantor of payee's indorsement. Am Bankers Assn J 16:586-8 Mr '24
Liability of collecting bank receiving draft in payment of check. Bankers M 109:581-4 O '24
Loi du 28 aout 1924 sur le paiement par chèque des effets de commerce. A. Lainé. Génie Civil 85:319-21 O 11 '24
Millions lost by check frauds. F. E. Francis. Credit M 26:11-12+ N '24
New par clearance litigation in Atlanta. Fed Res Bul 10:866-7 N '24
New par clearance suit. T: B. Paton. Am Bankers Assn J 17:140 S '24
Le paiement par chèque des effets de commerce. M. Lambert. Chimie & Ind 12:777-8 O '24
Le paiement par chèques et l'exonération du droit de timbre. A. Lainé. Génie Civil 86: 115 Ja 31 '25
Par collection of bank checks. E: A. Bradford. Annalist 25:128 Ja 19 '25
Pass book notice relative to out of town collection items. Bankers M 111:587-9 O '25
Payment by drawee bank's check. T: B. Paton. Am Bankers Assn J 16:649-51 Ap '24
Payment of check to impostor; Bank of Italy v. First bank of Kern. Bankers M 110:479-81 Mr '25

CHECKS—*Continued*
Payment of fraudulently raised check. Bankers M 110:259-62 F '25
Presentment for payment of check received after banking hours. Bankers M 109:879-80 N '24
Proceedings by Brookings (Ore.) state bank which brought verdict against Federal reserve bank of San Francisco in par check collection issue. T. T. Bennett. Comm & Fin Chr 121:796 Ag 15 '25
Retention of check as acceptance. T: B. Paton. Am Bankers Assn J 17:99-101 Ag '24
Revision of regulation J relating to check clearing and collection. Fed Res Bul 10:489-91 Je '24; Same. Comm & Fin Chr 119:423-4 Jl 26 '24
When a bank fails; liability on checks under Federal reserve. C: H. Woodworth. Credit M 26:20+ Jl '24

See also Overdrafts

Certification

Certification for stranger. T: B. Paton. Am Bankers Assn J 17:625-6 Ap '25
Certification of post-dated check for drawer. T: B. Paton. Am Bankers Assn J 17:159-61 S '24
Note sur un système de chèques garantis. F. Bourdil. Génie Civil 86:443 My 2 '25
Stopping payment of a certified check. Bankers M 108:67-9 Ja '24
Stopping payment of a certified check. Bankers M 110:39-42 Ja '25
Stopping payment of certified check. T: B. Paton. Am Bankers Assn J 17:569-70 Mr '25
Surrender of certified checks securing order shipments. T: B. Paton. Am Bankers Assn J 17:752-3 Je '25

Protection

Checks as a national currency; must be protected against manipulation. H. P. Preston and others. Credit M 7:10-11+ Je '25

See also Paper, Safety

CHECKS, Insured. See Insurance, Forgery

CHEESE
Butter and cheese markets in the West Indies. M. A. Wulfert. U S Bur For & Dom Com Trade Information Bul 369:1-15 '25
How cheese took place of beer in Pabst selling plan. G. A. Nichols. Ptr Ink 126:25-8 Ja 24 '24
Machinery must be substituted for hand labor; handling cheese. C. H. Kraft. il Factory 35:372-3+ S '25
Phenix cheese distributors objected to smaller cartons. C: G. Muller. Ptr Ink 131:25-6+ Ap 30 '25
Refrigeration of Cheddar cheese; manufacturing and storing. W. Wright. Refrig W 59: 19-22 S '24
World trade in butter and cheese. M. A. Wulfert. Econ W n s 30:7-9 Jl 4 '25

Advertising

Bankers back dairymen in big advertising effort; Wisconsin cheese producers. C. M. Harrison. Ptr Ink 126:41-2+ Ja 3 '24

CHEEVER, Markham, 1880-
Portrait. Elec W 83:866 My 3 '24

CHELTENHAM, Gloucestershire

Architecture

Pittville pump room, Cheltenham, Gloucestershire. R. W. Ramsdell and H. D. Eberlein. il diags Arch Forum 42:239-44 Ap '25

CHEMICAL advisory committee. See United States—Commerce, Department of—Chemical advisory committee

CHEMICAL affinity
Chemical affinity and electron affinity. R. H. Gerke. Am Chem Soc J 46:953-8 Ap '24
Chemical affinity and electronic structure; the non-polar bond. B. H. Wilsdon. diags Philos Mag 6th ser 49:354-69 F '25
Chemical affinity and electronic structure; the polar link. B. H. Wilsdon. Philos Mag 6th ser 49:900-11 My '25
Electronic theory of valency; the transmission of chemical affinity by single bonds. T. M. Lowry. Philos Mag 6th ser 46:1013-20 N '23
Internal pressures produced by chemical affinity. T. W. Richards. Am Chem Soc J 47:731-42 Mr '25
Nature, division and distribution of chemical force. B. Flürscheim. Soc Chem Ind J (Chem & Ind) 44:246-50 Mr 6 '25
Relation of structure, affinity and reactivity in acetal formation. H. Adkins and E. W. Adams. Am Chem Soc J 47:1368-81 My '25
Researches on residual affinity and co-ordination; a quadridentate group contributing four associating units to metallic complexes. G. T. Morgan and J. D. Main Smith. Chem Soc J 127:2030-7 S '25
Researches on residual affinity and co-ordination; boron β-diketone difluorides. G. T. Morgan and R: B. Tunstall. Chem Soc J 125:1963-7 S '24
Researches on residual affinity and co-ordination; chromic and cobaltic lakes of mordant azo-dyes. G. T. Morgan and J. D. Main Smith. Chem Soc J 125:1731-9 S '24
Researches on residual affinity and coordination; heats of chelation of dithiolated metallic halides. G. T. Morgan, S. R. Carter and W. F. Harrison. Chem Soc J 127:1917-25 S '25
Researches on residual affinity and co-ordination; interactions of germanium tetrahalides and β-diketones. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:1261-9 Je '24
Researches on residual affinity and co-ordination; interactions of trimethylstibine and platinic and palladous chlorides. G. T. Morgan and V: E. Yarsley. diag Chem Soc J 127:184-90 Ja '25
Researches on residual affinity and co-ordination; interactions of zirconium salts and β-diketones. G. T. Morgan and A. R. Bowen. Chem Soc J 125:1252-61 Je '24
Researches on residual affinity and co-ordination; optically active salicylatocobalt diethylenediammines. G. T. Morgan and J. D. M. Smith. Chem Soc J 125:1996-2004 O '24
Researches on residual affinity and co-ordination; stannic derivatives of β-diketones. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:372-81 F '24

See also Chemical reaction—Velocity; Coordination (chemistry); Double bond; Electroaffinity; Radicals (chemistry); Valence

CHEMICAL analysis. See Chemistry, Analytic

CHEMICAL apparatus
Apparatus for accurate analysis of small quantities of gas. D. S. Chamberlin and D. M. Newitt. diags Ind & Eng Chem 17: 621 Je '25
Apparatus for electrometric chemical analysis. il diags Chem Age (Lond) 10:508-9 My 17 '24
Apparatus for maintaining a constant pressure of gas. D: F. Smith. diag Ind & Eng Chem 16:22 Ja '24
Apparatus for preparing vapor-air mixtures of constant composition. W. P. Yant and F. E. Frey. diags Ind & Eng Chem 17:692-4 Jl '25
Apparatus for providing a continuous stream of hot distilled water. C. L. Ford. Ind & Eng Chem 16:40 Ja '24
Chemical pottery. J. G. Roberts. Soc Chem Ind J (Chem & Ind) 43:1156-7 N 21 '24
Device for maintaining a slow, constant flow of liquid. C: Van Brunt. Ind & Eng Chem 17:966-7 S '25
Distilling flask for corrosive liquids. L: Sattler and B. R. Mortimer. diag Ind & Eng Chem 17:495 My '25
Elimination of surface devitrification on laboratory quartzware. F. C. Vilbrandt. il Ind & Eng Chem 17:835-7 Ag '25
Grundsätze der extraktion und ihre anwendung im apparatebau. O: Michaelis. diags Zeit Ver Deutsch Ing 69:835-9 Je 20 '25

CHEMICAL apparatus—*Continued*
Hard resistance glasses and the progress of laboratory glassware. Soc Chem Ind J (Chem & Ind) 43:873-4 Ag 29 '24
Improved tube for determination of decolorizing value of soils. D. V. Moses and J. H. Griffith. il Ind & Eng Chem 17:901 S '25
Joint committee for the standardisation of scientific glassware. Soc Chem Ind J (Chem & Ind) 43:913-15; Discussion. G. W. Marlow. 916-17 S 12 '24
Laboratory apparatus and equipment. R. P. Cargille. il Chem Age 31:459-61, 517-19, 560-2; 32:41-3, 92-4, 193-5, 309-11, 339-41, 392-3, 461-3; 33:15-17 O '23-F, Ap, Jl-S, N '24, Ja '25
Modifications in laboratory apparatus. T. S. Patterson. diags Soc Chem Ind J 43:281-3 Ag 29 '24
New spiral gas-washing bottle. L. H. Milligan. diag Ind & Eng Chem 16:889 S '24
Removal of sulphur chloride and similar liquids from carboys. R. Defries. il Soc Chem Ind J (Chem & Ind) 44:675-6 Jl 3 '25
Simple pressure-measuring device for use with corrosive gases. D: F. Smith and N. W. Taylor. diag Am Chem Soc J 46:1393-6 Je '24
Unique development of modern chemical stoneware. P. C. Kingsbury. il diags Am Inst Chem Eng Trans v 14:275-89; Discussion. 289-92 '21-'22
Useful laboratory pump. D. H. Cameron. diag Ind & Eng Chem 17:585 Je '25

See also Acid-resisting materials; Agitators; Baths (chemical apparatus); Burets; Centrifugal machines; Chemical engineering—Apparatus and supplies; Chemical plants—Equipment; Colloid mill; Distillation apparatus; Evaporators; Extraction apparatus; Filter presses; Filters and filtration (technical chemistry); Gas analysis; Metallurgical apparatus; Pipes; Premier mill; Raschig's rings; Separators; Spectrometer; Stirrers; Thickeners; Turbidimeter; Vacuum pans; Viscosimeters; Volumetric apparatus

CHEMICAL education
Viewpoints on education of the chemist presented at meeting of Ottawa section. Can Chem & Met 8:67-8 Mr '24
Works training courses for chemical students. Chem Age (Lond) 13:416 O 24 '25

See also Chemical engineering—Study and teaching; Chemical laboratories; Chemistry—Study and teaching; *also* Pennsylvania state college

CHEMICAL elements
Chemical elements. F. H. Loring. 171p Dutton
Complexity of the elements. A. S. Russell. Philos Mag 6th ser 47:1121-40; 48:365-78 Je, S '24
Natural and artificial disintegration of the elements. E. Rutherford. J Fr Inst 198:725-44 D '24
Observations on the rare earths; a search for element sixty-one. L. F. Yntema. Am Chem Soc J 46:37-9 Ja '24
Origin of the chemical elements. A. von Weinberg. Chem Soc J 124 pt 2:843-4 D '23
Radioactivity and the latest developments in the study of the chemical elements. K. Fajans. 138p Dutton '22
Search for the missing element no. 43. C. H. Bosanquet and T. C. Keeley. Philos Mag 6th ser 48:145-7 Jl '24

See also Atomic weights; Atoms; Isotopes; Valence; *also* names of chemical elements, e.g. Arsenic; Carbon; Hafnium; Helium; Nitrogen; Oxygen; Sulfur

CHEMICAL engineering
American institute of chemical engineers 17th annual meeting, Pittsburgh. il Chem & Met Eng 31:925-9 D 15 '24
Chemical engineering at its best; the development of a sorghum sirup industry. J. J. Willaman. flow sheet il diag Chem & Met Eng 31:844-7 D 1 '24
Chemical engineering during 1924. Chem Age (Lond) 11:656-7 D 27 '24
Chemical engineering in industry. H. C. Parmelee. Chem & Met Eng 31:218-22 Ag 11 '24
Chemical engineering in vinegar manufacture. il diag Chem & Met Eng 30:1017-18 Je 30 '24
Cyanides and chemical engineering. H. G. Chickering. flow sheet diags Chem & Met Eng 31:967-70 D 22 '24
Relation of the Bureau of mines to chemical engineering. D. A. Lyon. Am Inst Chem Eng Trans v 15 pt 2:7-10 '23
Relation of the chemical work of the Bureau of mines to chemical engineering. S. C. Lind. Am Inst Chem Eng Trans v 15 pt 2: 33-7; Discussion. 37-42 '23
Relations of the Geological survey to chemical engineering. G: O. Smith. Am Inst Chem Eng Trans v 15 pt 2:1-4 '23; Same. Chem Age 31:531-2 D '23; Discussion. Am Inst Chem Eng Trans v 15 pt 2:4-5 '23
Typical problem in chemical engineering development; manufacture of sublimed white lead. J. H. Calbeck. il diags Chem & Met Eng 31:920-4 D 15 '24

See also Chemistry, Technical; Evaporation; Leaching; Metallurgy; Refrigeration and refrigerating machinery; Sewage disposal; Waste products; Water purification; *also* Institution of chemical engineers

Apparatus and supplies

Aluminum as a material of construction in chemical engineering industries. Chem & Met Eng 30:1022-5 Je 30 '24
Apparatus engineer as a catalyst to the progress of chemistry. F. Kraissl, jr. Chem Age 32:65-7 F '24
Beziehungen zwischen der chemischen und der mechanischen industrie. A. Krauss. il Zeit Ver Deutsch Ing 68:1-5, 22-4 Ja 5-12 '24
Borrowing chemical engineering from the gas man. il diags plans Chem & Met Eng 31:784-8 N 17 '24
Building and repair of chemical equipment by means of oxy-acetylene welding. Chem Age 32:349-52 Ag '24; Chem & Met Eng 31:341-6 S 1 '24
Cast iron chemical equipment. D. W. Sowers. Chem Age 32:386 S '24
Chemical engineering at the British Empire exhibition. J. W. Hinchley. il diags Soc Chem Ind J (Chem & Ind) 43:591-5, 660-2 Je 6, 27 '24
Chemical engineering equipment for university laboratories. M. J. Bradley. il Ind & Eng Chem 17:496-7 My '25
Chemical equipment manufacturers exhibit in Providence. plan Chem & Met Eng 32:544-5, 647-8 Je-Jl '25
How metals stand up against corrosion. Chem & Met Eng 31:70-9 Jl 14 '24; Excerpts. Brass W 20:309-13 S '24
How the chemical plant manufacturer is meeting the needs of the chemist. Can Chem & Met 8:239-40 O '24
Materials of construction for chemical apparatus. H. F. Whittaker. Am Inst Chem Eng Trans v 15 pt 1:114-41; Discussion. 153-69 '23; Published also in Monograph on corrosion tests and etc. 182p Van Nostrand '23
Monograph on corrosion tests and materials of construction for chemical engineering apparatus. W. S. Calcott, J. C. Whetzel and H. F. Whittaker. 182p [bibliog. p. 85-103] Van Nostrand '23
New engineering equipment marks tenth chemical show. il plans Chem & Met Eng 32:820-1 O '25
Pitfalls to avoid in selling to the chemical industry. Sales Management 8:955-6+ Je 27 '25
Progress in chemical equipment. il diags Ind & Eng Chem 17:1002-13 O '25
Tools of the chemical engineer. D. H. Killeffer. il diags Ind & Eng Chem 16:568-71, 785-8; 17:703-6, 1130-4 Je, Ag '24, Jl, N '25

See also Acid-resisting materials; Agitators; Chemical feed machines; Colloid mill; Extraction apparatus; Filters and filtration (technical chemistry); Mixing machines; Premier mill; Separators

CHEMICAL engineering—*Continued*

Study and teaching

Before the chemical engineering era. C: Wadsworth. Chem & Met Eng 32:277-9 F 16 '25

Chemical engineering at Michigan. C: Wadsworth. il Chem & Met Eng 31:999-1002 D 29 '24

How M.I.T. makes chemical engineers. C: Wadsworth. Chem & Met Eng 32:161-3 Ja 26 '25

Professional school of engineering. C: Wadsworth. il Chem & Met Eng 32:316-19 F 23 '25

CHEMICAL engineers

Chemical engineer. A. Jacques. Soc Chem Ind J (Chem & Ind) 42:1085-6 N 9 '23

Chemical engineer of to-day. W. H. Coleman. Chem Age (Lond) 12:104 Ja 31 '25

Chemistry in power plant. W. M. Miles. Chem Age (Lond) 10:643 Je 21 '24

Occupations of chemical engineering graduates. H. C. Peffer. J Eng Educ 15:558-9 Mr '25

CHEMICAL equilibrium

Ammonia, carbon, hydrogen cyanide, hydrogen equilibrium and free energy of hydrogen cyanide. R: M. Badger. diag Am Chem Soc J 46:2166-72 O '24

Ammonia equilibrium. A. T. Larson and R. L. Dodge. diag Am Chem Soc J 45:2918-30 D '23

Ammonia equilibrium at high pressures. A. T. Larson. Am Chem Soc J 46:367-72 F '24

Ammonium carbamate equilibrium. T. R. Briggs and V. Migrdichian. diag J Phys Chem 28:1121-35 N '24

Calculation of gaseous equilibrium constants. S. W. Saunders. J Phys Chem 28:1151-66 N '24

Equilibria between metals and fused salts. R: Lorenz. Am Electrochem Soc Trans v 47 (preprint 22):243-58 Ap '25

Equilibria in solutions containing mixtures of salts. W. C. Blasdale. Am Chem Soc J 45: 2935-46 D '23

Equilibria involving the oxides of iron. E. D. Eastman and R. M. Evans. diag Am Chem Soc J 46:888-903 Ap '24

Equilibrium between creatine and creatinine, in aqueous solution; the effect of hydrogen ion. G. Edgar and H. E. Shiver. Am Chem Soc J 47:1179-88 Ap '25

Equilibrium between iodine and barium iodide in aqueous solutions. J. N. Pearce and W. G. Eversole. J Phys Chem 28:245-55 Mr '24

Equilibrium between lactic acid and its anhydrides. G. I. Thurmond and G. Edgar. Ind & Eng Chem 16:823-6 Ag '24

Equilibrium between thio-urea and ammonium thiocyanate. G. H. Burrows. Am Chem Soc J 46:1623-7 Jl '24

Equilibrium in the systems cupric sulphate—potassium sulphate—water and cupric sulphate—ammonium sulphate—water at 25°, 51°, and 61°. R. M. Caven and T: C. Mitchell. Chem Soc J 125:1428-31 Jl '24

Equilibrium of the series cryolite-alumina. G. A. Roush and M. Miyake. bibliog Am Electrochem Soc Trans v 48 (preprint 10): 99-103 S '25

Esterification equilibria in the gaseous phase. G. Edgar and W: H. Schuyler. diag Am Chem Soc J 46:64-75 Ja '24

Position of equilibrium in the alcohol-ether reaction at 130° and 275°. R. N. Pease and Chi Chao Yung. diags Am Chem Soc J 46: 2397-2405 N '24

Studies of equilibrium in systems of the type $Al_2(SO_4)_3$—$M''SO_4$—H_2O; aluminium sulphate—copper sulphate—water and aluminium sulphate—manganous sulphate—water at 30°. R. M. Caven and T: C. Mitchell. Chem Soc J 127:527-31 Mr '25

System of boiler water treatment based on chemical equilibrium. R. E. Hall. diag Ind & Eng Chem 17:283-90 Mr '25

See also Phase rule

CHEMICAL equipment association

Code of ethics. Chem Age 31:481-2 N '23; Same. Chem & Met Eng 29:986-7 N 26 '23

CHEMICAL feed machines

Venturi speed controller for dry chemical feed devices. E. S. Smith, jr. and C. G. Richardson. il Eng N 92:844-5 My 15 '24

CHEMICAL foundation

Chemical foundation case is heard on appeal in Third circuit court. Oil Paint & Drug Rep 106:20+ N 17 '24

Chemical foundation, inc., patents. Textile Col 47:305-6 My '25

Court upholds sale of German patents to Chemical foundation. Chem & Met Eng 30: 28 Ja 7 '24

Government loses dye patents appeal. Oil Paint & Drug Rep 107:19+ Mr 30 '25; Am Dyestuff Rep 14:230+ Ap 6 '25; Textile World 67:2296 Ap 4 '25

Government loses dye patents suit; text of decision. Oil Paint & Drug Rep 105:19+ Ja 7 '24; Excerpts. Textile World 65:223 Ja 12 '24; Excerpts. Textile Col 46:106-7 F '24

Righteous victory. Ind & Eng Chem 16:112-13 F '24

Sale of German patents to Chemical foundation upheld—government suit for recovery of patents dismissed. Comm & Fin Chr 118: 158-9 Ja 12 '24

Where did the suit against the Chemical foundation originate? R: W. Edmonds. Manuf Rec 88:83-4 Jl 9 '25

CHEMICAL industries

Chemical and material markets in 1923. Chem & Met Eng 30:106-19 Ja 21 '24

Chemical engineering in industry. H. C. Parmelee. Chem & Met Eng 31:218-22 Ag 11 '24

Forest products in the chemical industries. L. F. Hawley. Am Inst Chem Eng Trans v 15 pt 2:169-74; Discussion. 174-6 '23

Industrial chemicals in 1924. Chem & Met Eng 32:122-43 Ja 19 '25

Industrial chemicals; market review. Oil Paint & Drug Rep 105:51 Mr 20 '24

Industrial chemicals: market review. Oil Paint & Drug Rep 107:54-7 Mr 26 '25

Looking, Janus-like, at the meeting years. Oil Paint & Drug Rep 104:17-19+ D 31 '23

Market conditions. Published in monthly numbers of Chemical and metallurgical engineering

1923: a retrospect; developments in chemical industry. Chem Age (Lond) 9:704-6 D 29 '23

1924: a retrospect. Chem Age (Lond) 11: 644-62 D 27 '24

Relation of the equipment manufacturer to the chemical industry. H. C. Parmelee. Chem & Met Eng 32:557-60 Je '25

Some world aspects of chemical industry. M. Muspratt. Chem Age (Lond) 12:520-1 My 30 '25

Survey and forecast of conditions in chemistry; abstracts. L. H. Baekeland. Chem Age 32:361-3 S '24; Chem Age (Lond) 11: 313 S 27 '24

See also Alcohol; Bleaching; Ceramic industries; Ceramics; Chemical engineers; Chemical research; Chemical workers; Chemicals; Chemicals—Prices; Chemicals—Uses; Chemistry; Chemistry, Technical; Clay industries; Coal-tar products; Drug trade; Drugs—Prices; Dye industry; Electrochemistry; Fertilizer industry; Fertilizers; Gas industry; Metallurgy; Oil industries; Paint industry and trade; Paper; Paper industry and trade; Porcelain; Potash; Pottery; Pottery industry; Rubber; Salt; Sodium nitrate; Sugar industry and trade; Tanning; Tanning materials; Trade secrets

Advertising

Publicity in chemical industry. W. J. U. Woolcock. Chem Age (Lond) 11:393-4 O 18 '24

Bibliography

Manufacturers' technical publications. See monthly numbers of Industrial and engineering chemistry

CHEMICAL industries—*Continued*

Directories

Chemical reference and industrial directory of sources of production, distribution and supply of the most used chemicals and industrial raw products. A. W. Wright, comp. and ed. 314p New York Commercial, 38 Park Row, New York '25

Exhibitions

British Empire exhibition at Wembley. Soc Chem Ind J (Chem & Ind) 43:1023-9 O 17 '24

British Empire exhibition at Wembley; a general review and an outline of the chemical section. il plan Chem Age (Lond) 10:312-15, 402-7, 428-35, 458-63; 12:474-5, 496-7, 523, 550, 579 Mr 29, Ap 19-My 3 '24, My 16-Je 13 '25

Chemical equipment exposition at Providence. Textile World 67:4137-8 Je 27 '25

Chemistry and gas at the British Empire exhibition. Engineering 117:646-7, 710-11 My 16, 30 '24

Notes from Wembley, 1925. Soc Chem Ind J (Chem & Ind) 44:527-8 My 22 '25

Results of the British Empire exhibition; impressions of chemical exhibitors. Chem Age (Lond) 11:440-1 N 1 '24

La section de chimie à l'exposition de l'Empire britannique, à Wembley (1925). W. J. V. Woolcock. il Chimie & Ind 14:141-4 Jl '25

Tenth exposition of chemical industries, Sept. 28-Oct. 3. Chem & Met Eng 32:745-6, 801-2, 820-1 S-O '25; Textile World 68:1861+ S 26 '25; Chemicals 24:5-6 O 5 '25; Oil Paint & Drug Rep 108:iii-xi pt 2 O 5 '25

Laws and regulations

Legislation in relation to chemical industry; Rongalite case. W: E. Kay. Soc Chem Ind J (Chem & Ind) 43:464-7 My 2 '24

Statistics

Chemicals—trade and prices. Survey of Cur Business 30:118 F '24 [continued quarterly]

Oil, paint and drug reporter analysis of market trends. Oil Paint & Drug Rep 104:44f-h, 45 N 19 '23 [continued monthly]

Trend of business movements. Published in monthly numbers of Survey of current business

Canada

Application of chemistry to the natural resources of Canada. H. Freeman. Can Chem & Met 8:182-4 Ag '24

Canada's chemical production well maintained. S. J. Cook. Can Chem & Met 9: 105-10 My '25

Chemical and allied products in Canada, 1922. 43p '24 Dominion Bur. of statistics, Canada

Chemical and metallurgical industries in Canada. Engineering 119:53 Ja 9 '25

Chemical industry makes progress in 1923. S. J. Cook. Can Chem & Met 8:108-10 My '24; Same abr. Chem Age (Lond) 11:322-3 S 27 '24

Industrial chemical markets reviewed; 1924. Can Chem & Met 9:126-7 My '25

See also Electrochemical industries—Canada

China

Trade depression reduces demand for chemicals in China. Chem & Met Eng 29:988 N 26 '23

Czechoslovakia

Czechoslovakia's chemical resources. Chem Age (Lond) 13:103 Jl 25 '25

Egypt

Egypt's chemical industries. H: L. Geissel. Chem & Met Eng 32:205 F 2 '25

Europe

European chemical industry discussed. Oil Paint & Drug Rep 107:22 My 18 '25

Far East

Chemical markets in the Far East; our relation to other competitors. Chem Age (Lond) 11:314-15 S 27 '24

France

L'industrie chimique au point de vue de la sécurité nationale. G. Patart. Chimie & Ind 13:1021-30 Je '25; Abstract. Génie Civil 87:93-4 Jl 25 '25

L'industrie chimique française. R. T. Duchemin. Chimie & Ind 13:497-513 Mr '25

L'organisation de l'exportation pour l'industrie chimique. P. Petit. Chimie & Ind 13: 680-2 Ap '25

Progress of chemical industry and trade in France during 1924. M. Deschiens. Soc Chem Ind J (Chem & Ind) 43:1289-90 D 26 '24

Review of French economic conditions; position of chemical and allied industries. J. R. Cahill. Chem Age (Lond) 11:264 S 13 '24

See also Dye industry—France

Germany

German alkali and sulphuric acid industries. W: T. Daugherty. U S Bur For & Dom Com Trade Information Bul 203:1-7 '24

German chemical industry, 1913-1922, enrolled 57 percent more workers. Oil Paint & Drug Rep 104:19 D 3 '23

German chemical industry, first half of 1925. W. T. Daugherty. Chemicals 24:7-8 Ag 31 '25

German foreign trade in chemicals larger. Oil Paint & Drug Rep 108:21 Jl 20 '25

German viewpoint on the Dawes plan. Chem & Met Eng 31:416 S 15 '24

See also Dye industry—Germany

Great Britain

Association of British chemical manufacturers' 8th annual general meeting. Soc Chem Ind J (Chem & Ind) 43:785-8 Ag 1 '24

Association of British chemical manufacturers' annual general meeting. Chem Age (Lond) 13:64-5 Jl 18 '25

Association of British chemical manufacturers' annual report for the year ending May 31. Soc Chem Ind J (Chem & Ind) 43:765-8 Jl 25 '24

British chemical export position. Chem Age (Lond) 13:318-19 S 26 '25

British chemical foreign trade in first six months of 1925. Oil Paint & Drug Rep 108: 67 N 2 '25

British chemical plant manufacturers. L. M. G. Fraser. Chem Age (Lond) 11:164-5 Ag 16 '24

British chemicals in European markets. Chem Age (Lond) 12:294-5 Mr 28 '25

British heavy chemical trade in 1924. Oil Paint & Drug Rep 107:53 Mr 26 '25

Chemical and allied industries of the Leeds district. il Soc Chem Ind J (Chem & Ind) 44:supxxi-v Jl 10 '25

Chemical industries of Liverpool and district. Soc Chem Ind J (Chem & Ind) 43:supxxi+ Jl 4 '24

Chemical industry in 1924. Soc Chem Ind J (Chem & Ind) 43:1284-7 D 26 '24

Chemical markets in British dominions. Chem Age (Lond) 11:82-4 Jl 26 '24

Chemical trade. Economist 101:52-3 Jl 11 '25

Chemical trade movements in 1923. Chem Age (Lond) 9:717-19 D 29 '23

Chemical trade movements in 1924. W. G. Wilson. Chem Age (Lond) 12:24-6 Ja 10 '25

Chemical trade with overseas markets. Chem Age (Lond) 10:558-60 My 31 '24

Chemicals. A. W. Ashe and H. G. T. Boorman. 207p [bibliog. p. 189-91] Van Nostrand '24

Chemistry and the state. R. Robertson. Soc Chem Ind J (Chem & Ind) 43:800-9, 820-30 Ag 8-15 '24; Summary. Chem Age (Lond) 11:138-40 Ag 9 '24

Chemistry in relation to public life. Chem Age (Lond) 9:660-2; Discussion. 662 D 15 '23

CHEMICAL industries—Great Britain—*Cont.*
Developments in the British chemical industries during 1924. R. Furness. Soc Chem Ind J (Chem & Ind) 43:1280-3 D 26 '24
Market report and current prices. See weekly numbers of Chemical age (London)
Merseyside and British chemicals. Chem Age (Lond) 11:265 S 13 '24
Present condition of chemical shipments. Chem Age (Lond) 12:524-5 My 30 '25
Production statistics of British chemicals. Chem Age (Lond) 11:317-18 S 27 '24
Progress of the British alkali industry. M. Muspratt. Chem Age (Lond) 12:354-5 Ap 11 '25
Review of British chemical industry. Chem Age (Lond) 11:186-7 Ag 23 '24
Review of the British chemical industries in 1923. Can Chem & Met 8:18-19 Ja '24

See also Dye industry—Great Britain; *also* Brunner, Mond and company

India

Chemical industries of Madras. Chem Age (Lond) 13:120 Ag 1 '25
Protection for Indian chemicals. Chem Age (Lond) 10:66 Ja 19 '24

Italy

Italian chemical production in 1924. Oil Paint & Drug Rep 108:61-2 Ag 24 '25

Japan

Chemical trade of Japan. T: W. Delahanty and C: C. Concannon. U S Bur For & Dom Com Trade Information Bul 217:1-44 '24

See also Dye industry—Japan

New York (city)

Chemical industry in New York and its environs. M. Newcomer. 49p Plan of New York and its environs, 130 E 22d st., New York '24; Abstracts. Chem Age 32:53-7 F '24; Chem & Met Eng 30:423-5 Mr 17 '24
New York is the greatest refiner in the world and largest chemical center in America. Am Ind 24:16 Mr '24

North Carolina

Opportunities for chemical industries in North Carolina. E. E. Randolph. map Chem Age 32: 327-9 Ag '24

Russia

Present status of the contact sulphuric acid industry in Russia. J. R. Minevitch and W. M. Malisoff. flowsheet map Chem & Met Eng 30:384-8 Mr 10 '24
Russian chemical industry. Chem Age (Lond) 12:532 My 30 '25

United States

Chemical exports. Oil Paint & Drug Rep 105: 20+ F 4; 19 My 5; 106:20 O 6 '24; 107:21 My 4 '25
Chemical foreign trade in first half of 1925. Oil Paint & Drug Rep 108:22+ Ag 10 '25; Same. Chemicals 24:7+ Ag 24 '25
Chemical group corporations had $5,722,513,016 gross income in 1922. Oil Paint & Drug Rep 107:19 Ja 26 '25
Chemical group corporations had $6,121,372,554 gross income in 1923. Oil Paint & Drug Rep 108:22 O 26 '25
Chemical imports gained 40 percent in nine months ended September 30. Oil Paint & Drug Rep 104:71 N 19 '23
Chemical trades of the United States; review of conditions in 1923. Chem Age (Lond) 11:258-9 S 13 '24
Export trade enters new era of progress. C. C. Concannon. Chem & Met Eng 30:97-8 Ja 21 '24
Exports and imports of chemicals and allied products, 1921-1923. Chem & Met Eng 30: 122-5 Ja 21 '24
52-year record of exports and imports from the United States, 1871-1923, arranged alphabetically by names of products. Oil Paint & Drug Rep 105:12+ Mr 20 '24
53-year record of exports and imports from the United States, 1871-1924, arranged alphabetically by names of products. Oil Paint & Drug Rep 107:20+ Mr 26 '25
Foreign trade in chemicals and the like. C. C. Concannon. Oil Paint & Drug Rep 105: 6-7 Mr 20 '24
Import and export trade in chemicals. C. R. DeLong. Ind & Eng Chem 16:83-5 Ja '24
An industry comes into its own. J. W. Kinsman. Chem & Met Eng 32:91-2 Ja 19 '25
Larger output of chemical products. Chem & Met Eng 30:101-2 Ja 21 '24
Looking at 1923 events from Washington. Oil Paint & Drug Rep 105:3+ Mr 20 '24
Market conditions. See monthly numbers of Chemical and metallurgical engineering and Industrial and engineering chemistry
Our foreign chemical trade. Am Ind 24:41-2 Jl '24
Our foreign trade in chemicals. J. Klein. Chem & Met Eng 32:97-8 Ja 19 '25
Our foreign trade in chemicals in 1924. O: Wilson. Ind & Eng Chem 17:318-20 Mr '25
Past year and its significance for 1925. Oil Paint & Drug Rep 107:17-20+ Ja 5 '25
Progress in the domestic manufacture of dyes and other synthetic organic chemicals during 1924. W. N. Watson. Ind & Eng Chem 17:1018-22 O '25
Progress in the past year. E. H. Hooker. Oil Paint & Drug Rep 107:21+ Je 8 '25
Trade aspect of year's national events. Oil Paint & Drug Rep 107:3+ Mr 26 '25
U.S. Geological survey and the chemical industry. F. L. Hess. Ind & Eng Chem 16: 861-2 Ag '24
What has happened to the chemical industry? S. L. Mayham. Am Bankers Assn J 16:710-11 My '24
What the chemical industry of the country means to the Chemical warfare service. A. A. Fries. Am Dyestuff Rep 14:719-23 N 2 '25

See also Chemical foundation; Dye industry—United States; Sugar industry and trade—United States; Tariff—United States—Chemical schedule; *also* Manufacturing chemists' association of the United States; Powers-Weightman-Rosengarten company; Procter and Gamble company; Synthetic organic chemical manufacturers' association

CHEMICAL laboratories
Activities of the Department of chemistry, Ontario agricultural college, Guelph. Can Chem & Met 8:37-9 F '24
Chemical engineering equipment for university laboratories. M. J. Bradley. il Ind & Eng Chem 17:496-7 My '25
Design of a chemical research laboratory. C. Hollins. Chem Age (Lond) 12:394-6 Ap 25 '25
Essentials of a laboratory of chemistry. L: N. Dennis. Chem Age 32:40 Ja '24
Laboratory apparatus and equipment. R. P. Cargille. Chem Age 32:339-41, 461-3 Ag, N '24
Mason hall of chemistry at Pomona college. E: P. Bartlett. il plan Ind & Eng Chem 16:638-9 Je '24
New chemical laboratory—Tufts college. il plans Chem Age 31:563 D '23
New chemistry building of the University of Missouri. H. Schlundt. plans Chem Age 32: 9-10 Ja '24
Nickel table tops for laboratories. O. B. J. Fraser. Ind & Eng Chem 17:604 Je '25
Research laboratory with a human product. C. Tyler. il Chem & Met Eng 32:285-8 F 16 '25
Technical organization; its development and administration. J: M. Weiss and C: R. Downs. 197p McGraw-Hill '24
Utilité du laboratoire de recherches chimiques dans l'industrie de l'huilerie et les industries annexes. E. André. Chimie & Ind 13:1031-7 Je '25

See also Desks, Laboratory; Fixed nitrogen research laboratory

CHEMICAL laboratories—*Continued*

Safety devices and measures

Chemical laboratory code. H: N. Marsh. il Nat Safety N 8:33-5 D '23; Excerpt. Chem Age 31:487-8 N '23

Safe practices. il Nat Safety N 9:47-53 My '24

CHEMICAL libraries

Two million references easily accessible; library of the Edward C. Worden laboratories, Milburn, N. J. il Chem & Met Eng 32:17 Ja 5 '25

CHEMICAL patents

British association of chemists; a question of patent rights. Chem Age (Lond) 13:88 Jl 25 '25

British patent list. See weekly numbers of Journal of the Society of chemical industry

Chemical inventions of 1923. Chem Age (Lond) 9:710-12 D 29 '23

Chemical inventions of 1924. Chem Age (Lond) 11:653-5 D 27 '24

Chemical research and commercial rivalry. Chem Age 31:508-9 N '23

Patent literature. See weekly numbers of Chemical age (London)

Review of recent patents. See monthly numbers of Chemical and metallurgical engineering

Some interesting chemical patents issued during the past year to American inventors. E. A. Hill and F. B. Leech. Ind & Eng Chem 17:1022-3 O '25

Some pitfalls of chemical invention. H. A. Toulmin, jr. and J. Heywood. Chem & Met Eng 32:157-8 Ja 26 '25

Summary of technical methods for the utilization of molasses; collated from patent literature. diags U S Bur Stand Circ 145: 1-72 '24; Abstract. J Fr Inst 197:831-4 Je '24

U.S. patents issued Nov. 25, 1924. Chem & Met Eng 31:903 D 8 '24

See also Bakelite; Dye patents; Petroleum refining—Patents; Rubber—Patents

Bibliography

Two million references easily accessible; library of the Edward C. Worden laboratories, Milburn, N. J. il Chem & Met Eng 32:17 Ja 5 '25

CHEMICAL plants

Building conditions for manufacturing chemists. M. G. Farrell. Chem Age 32:75-7, 116-18, 335-7 F-Mr, Ag '24

Cutting cost with continuous operation; the manufacture of alum. G. E. Walker. flow sheet il diag Chem & Met Eng 31:776-80 N 17 '24

Factory experimental apparatus. H. C. Cooper. Chem & Met Eng 32:426 Ap '25

Gas in the chemical industries. J. Jares. Am Gas J 122:521-2 Je 20 '25

Industrial alcohol and byproducts from raisins. A. W. Allen. il diags Chem & Met Eng 32:674-8 Ag '25

Layout and design of chemical plants on a philosophical basis. C. Field. diags plan Chem & Met Eng 32:794-9 O '25

Limitation of steam consumption in chemical works. C. F. Holmboe. Soc Chem Ind J (Chem & Ind) 43:911-13 S 12 '24

Location of chemical plants. W. H. Kiler. Chem & Met Eng 32:809 O '25

Plant construction in 1924. il Chem & Met Eng 32:120-1 Ja 19 '25

What a chimney has to do. il diags Chem & Met Eng 31:930-3 D 15 '24

See also Ammonia—Manufacture; Bleacheries; Dye factories; Metallurgical plants; Nitrate plants; Petroleum refineries; Tar distillation plants

Accidents

Chemical section improves accident rates in 1924. Nat Safety N 11:31 Je '25

Chemical section reports high severity rates. Nat Safety N 10:42 Jl '24

Accounting

Chemical engineers discuss costing problems. Chem Age (Lond) 11:516-18 N 22 '24

Chemical works cost. F. M. Potter and others. Soc Dyers & Col J 41:77-81 F '25

By-products

Clearing house for chemical manufacturers. A. S. Behrman. Ind & Eng Chem 17:856 Ag '25

Employees

See Chemical workers

Equipment

Chemical plant that is different. il Chem & Met Eng 32:272-3 F 16 '25

Concrete for acid phosphate dens. A. C. Irwin. Chem & Met Eng 29:1152 D 24 '23

Corrosion and its relation to safety in chemical plants. J. H. Shapleigh. Chem Age 32: 401-4 O '24; Excerpts. Chem & Met Eng 31:768-9 N 17 '24

Corrosion—the constant menace of the chemical industry. il Chem & Met Eng 31:61-9 Jl 14 '24

Developments in the equipment field. il diags Chem & Met Eng 32:115-19 Ja 19 '25

Electric trucks and tractors in process work. H. J. Payne. il Chem & Met Eng 32:695-9 Ag '25

Glimpses of a modern dry color plant; new factory of the Corona chemical division of the Pittsburgh plate glass company at Milwaukee. il Chem & Met Eng 32:501-3 My '25

Pyrex glass as a material for chemical plant construction. A. E. Marshall. il diags Am Inst Chem Eng Trans v 14:329-40; Discussion. 340-3 '21-'22

Relation of the equipment manufacturer to the chemical industry. H. C. Parmelee. Chem & Met Eng 32:557-60 Je '25

Ropeways and suspension railways. H. Blyth. il Chem Age (Lond) 13:214-16 Ag 29 '25

Safety and efficiency in chemical plant design. W. H. Kiler. Nat Safety N 12:11-14 Ag '25; Same. Am Dyestuff Rep 14:523-8 Ag 10 '25; Same. Oil Paint & Drug Rep 108: 22+ Ag 10 '25; Same. Chemicals 24:5-9 S 28 '25; Abstract. Chem & Met Eng 32:687 Ag '25

Tools of the chemical engineer. D. H. Killeffer. il Ind & Eng Chem 17:1130-4 N '25

Uses of concrete in chemical works. A. C. Irwin. Am Inst Chem Eng Trans v 14:365-76; Discussion. 377-80 '21-'22

See also Acid-resisting materials; Chemical engineering—Apparatus and supplies; Clarifiers; Thickeners

Maintenance and repair

Maintenance and repair of chemical plants in winter. H. Bücher. Chem Age 32:148-50 Mr '24

Management

Factory process returns and their use as a check on plant efficiency. J. A. Watson. Soc Chem Ind J (Chem & Ind) 44:101-5 Ja 30 '25

Fitting scientific management to chemical industry. L. Baumeister. Chem & Met Eng 32:551-2 Je '25

Safety devices and measures

Avoiding the effects of corrosion on buildings and apparatus. W. S. Calcott. Chem & Met Eng 32:685-7 Ag '25

Chemical plant housekeeping. Nat Safety N 11:37 Je '25

Chemical plant safety discussed at Wilmington conference. Nat Safety N 12:36 Jl '25

Dust explosions in industrial plants. H. R. Brown. il Ind & Eng Chem 17:902-4 S '25

Health and safety of chemical workers. bibliog il Chem Age (Lond) 13:441+ O 31 '25

Precautions in mechanical repair work. Nat Safety N 11:43 Ap '25

Protection of personnel and plant in chemical works. R. Furness. Chem Age (Lond) 13: 438-41 O 31 '25

CHEMICAL plants—Safety devices and measures—*Continued*
Safe handling of solvents. A. G. Smith. Chem Age 32:466-8 N '24
Safety and efficiency in chemical plant design. W. H. Kiler. Nat Safety N 12:11-14 Ag '25; Same. Am Dyestuff Rep 14:523-8 Ag 10 '25; Same. Oil Paint & Drug Rep 108: 22+ Ag 10 '25; Same. Chemicals 24:5-9 S 28 '25; Abstract. Chem & Met Eng 32:687 Ag '25
Safety kinks in chemical plants. M. L. Feltmer. Oil Paint & Drug Rep 108:22 N 2 '25

CHEMICAL reaction
Atomic dimensions and gaseous hydride formation. H. L. Riley. Philos Mag 6th ser 48:126-8 Jl '24
Charts of the chemical reactions of the common elements. J: A. Timm. 81p Wiley '24
Chemical action of gaseous ions produced by alpha particles; reactions of the oxides of carbon. S. C. Lind and D. C Bardwell. diags Am Chem Soc J 47:2675-97 N '25
Chemical exchange reactions of a zeolite. C. J. Frankforter and F. W. Jensen. Ind & Eng Chem 16:621-4 Je '24
Chemical reactivity and conjugation: the reactivity of the 2-methyl group in 2:3-dimethylchromone. I. M. Heilbron, H. Barnes and R: A. Morton. Chem Soc J 123:2559-70 O '23
Chemical reactivity and conjugation; the reactivity of the 2-methyl group in the 4-quinazolone series. I. M. Heilbron and others. Chem Soc J 127:2167-75 S '25
Conditions of reaction of hydrogen with sulphur; photochemical union. R. G: W. Norrish and E. K. Rideal. diags Chem Soc J 125:2070-81 O '24
Conditions of reaction of hydrogen with sulphur; the direct union of oxygen and sulphur. R. G: W. Norrish and E. K. Rideal. Chem Soc J 123:3202-18 D '23
Displacement of metals from solutions of their salts by less electropositive elements; the reaction between amides of the alkali and alkaline earth metals and elements more electropositive than tin. F. W. Bergstrom. Am Chem Soc J 47:1836-41 Jl '25
Equilibrium of carbon dioxide with carbon monoxide and oxygen in the corona discharge. G. L. Wendt and M. Farnsworth. diag Am Chem Soc J 47:2494-2500 O '25
Further experiments on the periodic dissolution of metals. E. S. Hedges and J. E. Myers. Chem Soc J 127:445-9 F '25
Influence of water on certain chemical reactions. L. B. Parsons. diag Am Chem Soc J 47:1817-35 Jl '25
Interaction of bromine with acetic anhydride. K. J. P. Orton, H. B. Watson and J; E. Bayliss. diag Chem Soc J 123:3081-96 D '23
Is chemical change a resonance effect? W: Hughes. Soc Chem Ind J (Chem & Ind) 44:847-8 Ag 21 '25
Mechanism of chemical reaction. R: C. Tolman. Am Chem Soc J 47:1524-53 Je '25
Mechanism of molecular activation. R. G. W. Norrish. bibliog Soc Chem Ind J (Chem & Ind) 43:327-8 Mr 28 '24
Periodic dissolution of metals in certain reagents. E. S. Hedges and J. E. Myers. il diag Chem Soc J 125:604-26 Mr '24
Periodic electrochemical phenomena. E. S. Hedges and J. E. Myers. Chem Soc J 127: 1013-26 My '25
Possible reconciliation of the octet and positive-negative theories of chemical combination. W: A. Noyes. Am Chem Soc J 45:2959-61 D '23
Quantitative measurements of the reactivity of the halogens in aromatic compounds. A. H. Rheinlander. Chem Soc J 123:3099-3110 D '23
Reaction between ferrous salts and cuprous salts. R. C. Wells. Am J Sci 5th ser 8:428-33 N '24
Reaction of bromonitromethane with aromatic compounds in the presence of aluminum chloride. M. L. Sherrill. Am Chem Soc J 46:2753-8 D '24
Reactions of cations and anions. W: L Estabrooke. 92p Oxford book co., New York '23
Reactivity of atoms and groups in organic compounds; the relative reactivities of the hydroxyl-hydrogen atoms in certain alcohols. J. F. Norris and A. A. Ashdown. Am Chem Soc J 47:837-46 Mr '25
Reactivity of solid phases. J. A. Hedvall. J Phys Chem 28:1316-30 D '24
Relation between the temperature coefficient and the mechanism of a chemical reaction. F. O. Rice, C: F. Fryling and W. A. Wesolowski. Am Chem Soc J 46:2405-18 N '24
Studies in chemical reactivity; the anthracene —dianthracene reactions, photochemical and thermal. H. A. Taylor and W. C. M. Lewis. Am Chem Soc J 46:1606-14 Jl '24
Studies of electrovalency; the catalytic activation of molecules and the reaction of ethylene and bromine. R. G: W. Norrish. diags Chem Soc J 123:3006-18 N '23
Study of reactions in liquid hydrogen sulfide. G. N. Quam. diag Am Chem Soc J 47:103-8 Ja '25
Theory of chemical reactivity. F. O. Rice. Am Chem Soc J 45:2808-20 D '23
Thermal decomposition of chlorine monoxide; relation to the general theory of bimolecular reactions. C. N. Hinshelwood and J. Hughes. Chem Soc J 125:1841-7 S '24

See also Catalysis; Chemical reagents; Condensation, Chemical; Decomposition; Friedel and Crafts reaction; Monomolecular reactions; Oxidation; Reduction, Chemical; Substitution (chemistry); Synthesis

Velocity

Critical increment of chemical reactions. W: E: Garner. Philos Mag 6th ser 49:463-5 F '25; Discussion. C. N. Hinshelwood. 50:360-1 Ag '25
Decomposition of malic acid by sulfuric acid. E. L. Whitford. Am Chem Soc J 47:953-68 Ap '25
Decomposition of substituted carbamyl chlorides by hydroxy-compounds; the reaction between phenylmethylcarbamyl chloride and ethyl alcohol at different temperatures. T. W. Price. Chem Soc J 125:115-29 Ja '24
Derivation of the equation for the effect of temperature on reaction rate. R: C. Tolman Am Chem Soc J 47:2652-61 N '25
Influence of colloids on the rate of reactions involving gases; decomposition of hydrogen peroxide and of nitrosotriacetonamine. A. Findlay and W: Thomas. Chem Soc J 125: 1244-52 Je '24
Influence of substituents on chemical and physical properties: the velocity of reaction between substituted benzoic anhydrides and an aliphatic alcohol. H. G. Rule and T: R. Paterson. Chem Soc J 125:2155-63 O '24
Initial rate of decomposition of nitrogen pentoxide. E. C. White and R: C. Tolman. diags plan Am Chem Soc J 47:1240-55 My '25
Isothermal reaction velocity in homo-heterogeneous systems in the absence of solvent; with special reference to the conversion of fused maleic acid into fumaric and malic acids. K. Höjendahl. J Phys Chem 28:758-68 Jl '24
Kinetic salt effect. J. N. Brönsted and C. E. Teeter, jr. J Phys Chem 28:579-87 Je '24
Kinetics of the reaction between the halogens and saturated aliphatic ketones in dilute aqueous solution. F. O. Rice and C: F. Fryling. Am Chem Soc J 47:379-84 F '25
Linear v. logarithmic rate of chemical change. J. C. Philip. Soc Chem Ind J (Chem & Ind) 42:1163-4 N 30 '23
Measurements of velocity of the synthesis of hydrogen bromide by capacity change. A. Bramley. diags Phys R 25:858-64 Je '25
Molecular attraction and molecular combination. O. Maass. J Fr Inst 198:157-9 Ag '24
Molecular attraction and velocity of reactions at low temperatures of unsaturated hydrocarbons. O. Maass and C. H. Wright. Am Chem Soc J 46:2664-73 D '24

CHEMICAL reaction—Velocity—*Continued*
Quantitative reduction by hydriodic acid of halogenated malonyl derivatives; the influence of substitution in the amide group on the reactivity of the halogen atom in bromomalonamide. R. W. West. Chem Soc J 127: 748-53 Mr '25
Rate of decomposition of nitrogen pentoxide at low concentrations. J. K. Hunt and F. Daniels. diag Am Chem Soc J 47:1602-9 Je '25
Rate of thermal decomposition of sulfuryl chloride; a first-order homogeneous gas reaction. D: F. Smith. diag Am Chem Soc J 47:1862-75 Jl '25
Reaction velocity of rearrangement of potassium dibenzhydroxamate. G. Dougherty and L. W. Jones. Am Chem Soc J 46:1535-9 Je '24
Relation of structure, affinity and reactivity in acetal formation. H. Adkins and E. W. Adams. Am Chem Soc J 47:1368-81 My '25
Studies on the rate of oxidation of nitric oxide; a new method of measuring the velocity of a rapid gaseous reaction. M. Latshaw and W. A. Patrick. diags Am Chem Soc J 47:1201-7 My '25
Studies on the rate of oxidation of nitric oxide; the velocity of the reaction between nitric oxide and oxygen at 0° and 30°. R. L. Hasche and W. A. Patrick. il Am Chem Soc J 47:1207-15 My '25
Theory of reaction rate. G. N. Lewis and D: F. Smith. Am Chem Soc J 47:1508-20 Je '25
Velocity of chemical reactions and catalysis. H. I. Schlesinger. Soc Auto Eng J 16:433-41; Discussion. 441-3 Ap '25
Velocity of oxidation of paraffin wax. F. Francis and others. Chem Soc J 125:381-93 F '24
Velocity of reaction in mixed solvents; the influence of the base on the velocity of saponification of esters in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 125: 2590-5 D '24
Velocity of reaction in mixed solvents; the velocity of formation of certain quaternary ammonium salts. H. McCombie, H. M. Roberts and H. A. Scarborough. Chem Soc J 127:753-9 Mr '25
Velocity of reaction in mixed solvents; the velocity of saponification of certain methyl esters by potassium hydroxide in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 123:2688-98 O '23
Velocity of the hydrogen electrode reaction on platinum catalysts. L: P. Hammett. Am Chem Soc J 46:7-19 Ja '24

CHEMICAL reagents
Interference of ammonia with the hypochlorite reaction for aniline. E. S. West. Ind & Eng Chem 16:1270-1 D '24
New organic reagent for the detection of nitrates and perchlorates. C. S. Marvel and V. du Vigneaud. Am Chem Soc J 46:2661-3 D '24
Preparation of arsenic-free reagents. G: D. Beal and K. E. Sparks. Ind & Eng Chem 16:369-70 Ap '24
Recommended specifications for analytical reagent chemicals. W. D. Collins and others. Ind & Eng Chem 17:756-60 Jl '25
Sodium 6-chloro-5-nitro-*m*-toluenesulphonate; a new reagent for potassium. H. Davies and W: Davies. Chem Soc J 123:2976-82 N '23

See also Dinitroso-resorcinol; Furildioxime; Grignard reagent; Methylene blue; Nessler-Folin reagent; Nitrophthalic anhydride; Perchloric acid; Sodium tungstate

CHEMICAL research
Academic research and industry. Ind & Eng Chem 17:1088-9 O '25
Address to Chemical industry society. E. F. Armstrong. Chem Age (Lond) 11:524-5 N 22 '24
Applications for grants from the Chemical society research fund. Chem Soc J 127:926-9 Ap '25
Chemical research activity in the various countries of the world. E. J. Crane. Ind & Eng Chem 16:754 Jl '24
Chemical research and medical practice. W: Willcox. Chem Age (Lond) 11:495-6 N 15 '24
Chemical research works wonders in waste elimination. D. H. Killeffer. Manuf Rec 85:75-7 My 8 '24
Chemistry solving nature's problems. D. H. Killeffer. Manuf Rec 86:107-8 O 2 '24
Chemistry work of the Bureau of standards. W. F. Hillebrand. Am Inst Chem Eng Trans v 15 pt 2:87-96 '23; Same. Chem Age 31:533-6 D '23
Factory experimental apparatus. H. C. Cooper. Chem & Met Eng 32:426 Ap '25
Great temple of the future; proposed National institute for research in colloid chemistry. Chem & Met Eng 30:540-1 Ap 7 '24
Handwriting on the wall. A. D. Little. Ind & Eng Chem 17:857-8 Ag '25; Same. Chem & Met Eng 32:672-3 Ag '25; Same. Manuf Rec 88:67-8 S 10 '25; Same. Brick & Clay Rec 67:564+ O 13 '25
Influence of chemical research on medicine and forensic medicine. W: Willcox. Soc Chem Ind J (Chem & Ind) 43:1172-6 N 28 '24
Introduction to organic research. E. E. Reid. 343p Van Nostrand '24
List of research problems in chemistry. J. E. Zanetti. Ind & Eng Chem 16:304-7 Mr '24; Same. (Reprint & Circ. Ser. 53) 9p '24 15c National research council, 1701 Massachusetts av, Washington, D.C.
Message of chemical science to India. M. O. Forster. Chem Age (Lond) 12:50-1, 74-5 Ja 17-24 '25
Organisation of chemical research in India. J. F. Thorpe. Chem Age (Lond) 10:484-5 My 10 '24
Research work at Birmingham university. Chem Age (Lond) 12:80 Ja 24 '25
Second census of graduate research students in chemistry. J. F. Norris. Ind & Eng Chem 17:755-6 Jl '25; Same. (Reprint & Circ. Ser. 63) 3p 15c National research council, 1701 Massachusetts av., Washington, D.C. '25
Sur l'organisation du travail de recherche en chimie. A. Béhal. Chimie & Ind 14:309-11 Ag '25
Titles of chemical papers. Chem Age (Lond) 11:237 S 6 '24
Trend and purpose of modern research. H. E. Howe. J Fr Inst 199:187-202 F '25
Value of industrial research to industry. E. R. Weidlein. Am Gas Assn General Sessions sec v 6:150-5 '24

See also Ceramic research; Chemical laboratories; Dye research; Gas research; Metallurgical research; National research council; Petroleum research; Textile research

CHEMICAL societies
Chemical and allied societies; notes on their work during 1923. Chem Age (Lond) 9:720-5 D 29 '23
Chemical and allied societies; notes on their work during 1924. Chem Age (Lond) 11:658-62 D 27 '24
Organisation of chemistry, with special reference to the possibility of greater co-operation. W. J. U. Woolcock. Soc Chem Ind J (Chem & Ind) 43:199-200; Discussion. 200-1 F 22 '24

See also American chemical society; American institute of chemical engineers; American institute of chemists; Australian chemical institute; Canadian institute of chemistry; Institute of chemistry of Great Britain; Manufacturing chemists' association of the United States; Society of chemical industry

CHEMICAL symbols
A point of order; plus and minus signs. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 43: 723 Jl 11 '24; Discussion. 43:769-70 Jl 25 '24
Some early chemical symbols. E: H. Smith. il Ind & Eng Chem 16:406-8 Ap '24

CHEMICAL warfare
Chemical warfare from the standpoint of the navy. P. E. Speicher. Chem Age 32:191-2 Ap '24
Les dangers d'une attaque aéro-chimique russo-allemande. A. Michelin. Chimie & Ind 13:325-30 F '25
Signing at Geneva of protocols for control of armament and chemical warfare. Comm & Fin Chr 121:534-5 Ag 1 '25
Status of chemical warfare preparedness in the U.S. Chem Age 32:273-4 Je '24
What the chemical industry of the country means to the Chemical warfare service. A. A. Fries. Am Dyestuff Rep 14:719-23 N 2 '25

See also Smoke screens

CHEMICAL warfare association
Chemical warfare association may perform valuable services. Chem & Met Eng 31:594 O 13 '24

CHEMICAL warfare officers' reserve corps. See United States—Army—Chemical warfare officers' reserve corps

CHEMICAL workers
Health conditions among chemical workers. with respect to earnings. Monthly Labor R 18:154-6 Ja '24
Report of the A.C.S. committee on occupational diseases and hazards in chemical trades. bibliog Ind & Eng Chem 16:644-6 Je '24

See also Chemical plants—Safety devices and measures

CHEMICALS
Developments in heavy chemicals in 1923. P. Parrish. Chem Age (Lond) 9:714-15 D 29 '23
Developments in heavy chemicals in 1924. P. Parrish. Chem Age (Lond) 11:649-51 D 27 '24
Fine chemical industry of 1924. A. S. Wilson-Jones. Chem Age (Lond) 11:652 D 27 '24
Industrial chemicals in 1924. Chem & Met Eng 32:122-43 Ja 19 '25
Progress in the domestic manufacture of dyes and other synthetic organic chemicals during 1924. W. N. Watson. Ind & Eng Chem 17:1018-22 O '25
Sources of raw materials for chemical manufacture. J. T. Hewitt. Chem Age (Lond) 9:658-60 D 15 '23
What the maker needs; materials consumed in the manufacture of various products of the chemical and related industries. Published in weekly numbers of Oil paint & drug reporter p 21

See also Chemical industries; Chemical reagents; Chemistry, Medical and pharmaceutical; Drugs; Drying agents; Insecticides; Refrigerants; Tanning materials; Tariff—United States—Chemical schedule

Prices

Better tools for gaging prices. Chem & Met Eng 32:130-1 Ja 19 '25
Comparative prices in the New York market, 1923. Chem & Met Eng 30:120 Ja 21 '24
Current Canadian market quotations on chemicals, gums, oils and metals. See monthly numbers of Canadian chemistry and metallurgy
Current prices in the New York market. Published in monthly numbers of Chemical and metallurgical engineering
Drugs and fine chemicals. Published in weekly numbers of Oil paint and drug reporter
Drugs and fine chemicals: market review. chart Oil Paint & Drug Rep 105:78-83 Mr 20 '24
Drugs and fine chemicals; market review. Oil Paint & Drug Rep 107:78-82 Mr 26 '25
Higher average for chemical prices in 1923. Chem & Met Eng 30:105 Ja 21 '24
Industrial chemicals. Published in weekly numbers of Oil paint and drug reporter
Industrial chemicals: market review. Oil Paint & Drug Rep 105:51 Mr 20 '24
Industrial chemicals: market review. Oil Paint & Drug Rep 107:54-7 Mr 26 '25
Market report. Published in monthly numbers of Industrial and engineering chemistry
Market report and current prices. See weekly numbers of Chemical age (London) and Journal of the Society of chemical industry
Oil paint and drug reporter analysis of market trends. Oil Paint & Drug Rep 106:44B-5 Ja 14 '24 [continued monthly]

Storage

Efficient bulk storage of chemicals in powdered form. G: F: Zimmer. diags Chem Age (Lond) 11:210-11 Ag 30 '24
Pneumatic handling of granulated chemicals. A. F. Mellen. Eng N 94:857 My 21 '25

Testing

Testing of chemicals in the Bureau of chemistry from 1920 to 1923. G. C. Spencer. Ind & Eng Chem 15:1281-2 D '23

Transportation

See also Carboys

Uses

Chemical and material markets in 1923. Chem & Met Eng 30:106-19 Ja 21 '24
Chemicals in refrigerating industry. Refrig W 59:31 O '24
Strange uses of common materials. E: R. Weidlein. Management & Adm 6:731-2; 7: 43-4 D '23-Ja '24
Where you can sell. 307p Oil, paint and drug rep., inc., New York '23
Where you can sell; ready reference guide for sales executives. Published in weekly numbers of Oil paint & drug reporter

CHEMISTRY
Applied chemistry for nurses. J. L. Rosenholtz. 220p W. B. Saunders co., Philadelphia '24
Brief course of six talks and bibliography on the rôle of chemistry in every-day life. A. Silverman and others. 34p Univ. of Pittsburgh, Pittsburgh '24
Chemistry and civilization. A. S. Cushman. 2d ed. 171p Dutton '25
Chemistry and civilisation; Hurter memorial lecture; abstracts. M. Muspratt. Chem Age (Lond) 12:76 Ja 24 '25; Soc Chem Ind J (Chem & Ind) 44:111-12 Ja 30 '25
Chemistry and confectionery. S. Jordan. Ind & Eng Chem 16:336-9 Ap '24
Chemistry and the state. R. Robertson. Soc Chem Ind J (Chem & Ind) 43:800-9, 820-30 Ag 8-15 '24
Chemistry for secondary schools. E. L. Dinsmore. 574p F. M. Ambrose co., New York '25
Chemistry in everyday life. F. B. Emery and others. 667p Lyons and Carnahan, New York '24
Chemistry in life, disease, and death. R. Furness. Chem Age (Lond) 12:133 F 7 '25
Chemistry in modern life. S. A. Arrhenius. rev. ed. 286p Van Nostrand '25
Chemistry in the service of man. A. Findlay. 3d ed., rev. & enl. 300p Longmans '25
Chemistry in the twentieth century. E. F. Armstrong, ed. 281p Macmillan '24
Chemistry of familiar things. S: S. Sadtler. 4th ed. rev. 322p Lippincott '24
Chemistry of solids. C. H. Desch. Soc Chem Ind J (Chem & Ind) 44:907-13, 924-9 S 11-18 '25; Same cond. Chem Age (Lond) 13: 247, sup17-19 S 5 '25; Abstract. Engineering 120:407 O 2 '25
College chemistry. L. C. Newell. 645p Heath '25
College chemistry companion. J. Kendall. 233p Century co. '24

CHEMISTRY—*Continued*

Elementary study of chemistry. W: McPherson and W: E. Henderson. 3d ed. 628p Ginn '24

Elements of chemistry. W: Foster. 576p Van Nostrand '25

Expansion of chemistry. E. E. Slosson. Ind & Eng Chem 16:447-50 My '24

Fundamentals of chemistry. L. J. Bogert. 324p W. B. Saunders co., Phila. '24

Fundamentals of chemistry. C. W: Gray, C. W. Sandifur and H. J. Hanna. 456p Houghton '24

General chemistry. H. G. Deming. 2d ed., rev. 650p [bibliog. p. 629-32] Wiley '25

General chemistry. H. I. Schlesinger. 242p Longmans '25

Introduction to general chemistry. W: Foster. 643p Princeton univ. press, Princeton '24

Introductory college chemistry. H. N. Holmes. 500p Macmillan '25

Matter and change. W: C. D. Whetham. 280p Macmillan '24

My fifty-eight years in chemistry. H. W. Wiley. Chem Age 32:447-8 N '24

Outlook in chemistry. W: J. Pope. Chem Age (Lond) 10:532-3, 564-6 My 24-31 '24; Same. Soc Chem Ind J (Chem & Ind) 43: 566-72 My 30 '24

Practical chemistry for nurses. A. Fiske. 117p M. Barrows & co., Boston '24

Progress in chemistry and the theory of population. C. L. Alsberg. Ind & Eng Chem 16:524-6 My '24

Pronouncing chemical formula speller and contest guide. C. A. Jacobson. 279p Williams & Wilkins co., Baltimore '25

Science for the sheet metal worker. T: Newton. Sheet Metal Worker 14:251-2+, 330-2, 493-4, 646-7+, 719-20, 785+, 899-900+, 987-8+ Ap 27, My 25, Jl 20, S 14, O 12, N 9, D 21 '23, Ja 18 '24

Smith's elementary chemistry. J. Kendall. Rev. ed. 423p Century co. '24

Some high lights of the past year. D. H. Killeffer. il Ind & Eng Chem 16:995-1001 O '24

Text-book of chemistry and chemical uranalysis for nurses. H. L. Amoss. 3d ed., rev. 248p Lea & Febiger, Phila. and New York '25

Titles of chemical papers. Chem Age (Lond) 11:237 S 6 '24

Treatise on chemistry. H: E. Roscoe and C. Schorlemmer. 6th ed., rev. v 2 Macmillan '23

Triumphs and wonders of modern chemistry. G. Martin. Rev. ed. 389p Van Nostrand '23

See also Acids; Air; Alkalies; Assaying; Atomic weights; Atoms; Biological chemistry; Botanical chemistry; Catalysis; Chemical elements; Chemical reaction; Chemicals; Chemists; Colloids; Color; Combustion; Condensation, Chemical; Crystallization; Crystallography; Dairy chemistry; Dissociation; Dyes and dyeing—Chemistry; Electrochemistry; Electrolysis; Electrolytes; Evaporation; Explosives; Fermentation; Fusion; Gases; Geochemistry; Halogens; Hydrolysis; Indicators and test papers; Ions; Liquid air; Liquids; Metallurgy; Metals; Microchemistry; Mineralogy; Mixtures; Molecules; Oxidation; Pharmacy; Photochemistry; Photographic chemistry; Physiological chemistry; Poisons; Poisons, Industrial; Radioactive substances; Reduction, Chemical; Salt; Salts; Solids; Solution (chemistry); Solvents; Spectrum; Stereochemistry; Synthesis; Textile chemistry; Thermochemistry; Waxes

Analysis

See Chemistry, Analytic

Bibliography

Abstracts issued by the Bureau of chemical abstracts. Published in weekly numbers of Journal of the Society of chemical industry

Bibliography of bibliographies on chemistry and chemical technology. C. J. West and D. D. Berolzheimer. Nat Research Council Bul v 9, pt 3:1-308 Mr '25

Books reviewed, November, 1923 to November, 1924. Soc Chem Ind J (Chem & Ind) 43:1187-91 N 28 '24

British publishers of chemical books. Soc Chem Ind J (Chem & Ind) 43:1177-82 N 28 '24

Documentation. See monthly numbers of Chimie et industrie

Introduction to the literature of chemistry for senior students and research chemists. F. A. Mason. 41p Oxford '25

Outline and bibliography on the rôle of chemistry in every-day life. A. Silverman and others. 14p University of Pittsburgh, Pittsburgh '24

Reference list of bibliographies. J. A. Sohon and W: L. Schaaf, comp. 100p H. W. Wilson co. '24

References to current literature. Published in Industrial and engineering chemistry and in Chemical age (London)

Technical and scientific books. Soc Chem Ind J (Chem & Ind) 44:1059-60 O 30 '25

See also Chemical libraries

Dictionaries

"Chemical age" chemical dictionary, 158p E. Benn, ltd., London; Van Nostrand '24

Chemical encyclopædia. C: T: Kingzett. 3d ed. 606p Van Nostrand '24

Chemical reference and industrial directory of sources of production, distribution and supply of the most used chemicals and industrial raw products. A. W. Wright, comp. and ed. 314p New York Commercial, 38 Park Row, New York '25

Chemical synonyms and trade names. W: Gardner. 275p Van Nostrand '24

Chemisches wörterbuch. H. Remy. 416p B. G. Teubner, Leipzig and Berlin '24

Experiments

Technik der experimentalchemie. R. F. E. Arendt. 5th ed., rev. 732p L. Voss, Leipzig '25

History

Annual reports on the progress of chemistry for 1923. v. 20 323p Van Nostrand '24

Chemistry in the twentieth century. E: F. Armstrong, ed. 281p Macmillan '24

Chemistry to the time of Dalton. E. J: Holmyard. 128p [bibliog. p. 126] Oxford '25

Story of early chemistry. J: M. Stillman. 566p [bibliog. p. 541-55] Appleton '24

See also Alchemy; Phlogiston

Laboratory manuals

Exercises in general chemistry. H. G. Deming and S. B. Arenson. 247p Wiley '24

Experiments in college chemistry. L. C. Newell. 320p Heath '25

Laboratory manual. C. W: Gray and C. W. Sandifur. 137p Houghton '24

Periodicals

List of periodicals abstracted by Chemical abstracts. [Reprinted from Chemical abstracts, v. 16, no. 20, Oct. 20, 1922] Ohio state univ., Columbus '22

Study and teaching

The making of a compleat chymist. H: E. Armstrong. Soc Chem Ind J (Chem & Ind) 43:1077-80, 1100-3 O 31-N 7 '24

Selective instruction. A. Silverman. Ind & Eng Chem 16:860-1 Ag '24

Student's laboratory and study guide for general chemistry. B. C. Hendricks and C. S. Hamilton. 194p Univ. of Nebraska, Dept. of chemistry, Lincoln '25

See also Chemical education

Tables, calculations, etc.

Chemical calculations. R. H. Ashley. 3d ed., rev. 276p Van Nostrand '23

Chemical calculations. J. S. Long and H. V. Anderson. 167p McGraw-Hill '24

Differential equations in applied chemistry. F. L. Hitchcock and C. S. Robinson. 110p Wiley '23

CHEMISTRY—*Continued*

Technology

See Chemistry, Technical

Terminology

Misleading trade terms. Chem & Met Eng 31:997 D 29 '24

What is a chemical? J. N. Taylor. Chem Age 31:516 N '23

Wool chemical momenclature and definitions. F: A. Hayes. Textile World 68:789+ Ag 8 '25

See also Mercaptan (term)

China

Chemical literature in China. W: H. Adolph. Soc Chem Ind J (Chem & Ind) 43: 504-5 My 16 '24

Russia

Some aspects of Russia's contribution to chemistry. W: P. Wynne. Chem Soc J 125: 997-1013 My '24; Abstract. Chem Age (Lond) 10:352-3 Ap 5 '24

United States

America through chemical spectacles. Soc Chem Ind J (Chem & Ind) 44:271-2 Mr 13 '25

CHEMISTRY, Analytic

Allen's commercial organic analysis. A. H: Allen. v 1 5th ed., rev. Blakiston '23

Analysis of mixed salts by freezing point method. H. E. Batsford. Ind & Eng Chem 15:1272-3 D '23

Analysis of organic rubber vulcanising accelerators. T. Callan and N. Strafford. Soc Chem Ind J 43:1-8 Ja 4 '24

Course of instruction in instrumental methods of chemical analysis. W: N. Lacey. 95p Macmillan '24

Development of analytical methods. M. F. Connor. bibliog Can Chem & Met 8:143-4 Je '24

Explosion method for peroxide fusions. W. F. Muehlberg. Ind & Eng Chem 17:690-1 Jl '25

Microchemistry as an industrial economy. W: H. Gesell and M. A. Dittmar. il Ind & Eng Chem 17:808-9 Ag '25

New organic reagent for the detection of nitrates and perchlorates. C. S. Marvel and V. du Vigneaud. Am Chem Soc J 46: 2661-3 D '24

Notes on chemical analysis. A. Craig. 162p Chemical pub. co. '24

Perfection of chromic acid method for determining organic carbon. J. W. White and F. J. Holben. diag Ind & Eng Chem 17:83-5 Ja '25

Rapid method of determining carbon in organic compounds. H. D. Wilde, jr. and H. L. Lochte. diag Am Chem Soc J 47:440-6 F '25

Revue de chimie analytique. A. Kling, A. Lassieur and C: Digaud. Chimie & Ind 12: 638-52, 816-36, 1003-12 O-D '24

Student's manual of organic chemical analysis, qualitative and quantitative. J. F. Thorpe and M. A. Whiteley. 250p Longmans '25

Systematic detection of traces of aldehydes. E. C. Crocker. Ind & Eng Chem 17:1158-9 N '25

Technical methods of chemical analysis. G. Lunge. 2d ed. 722p Van Nostrand '24

See also Acidimetry; Air—Analysis; Alcohol—Analysis; Butter fat—Analysis; Chemical reagents; Coal—Analysis; Colorimetric analysis; Cotton—Analysis; Dye analysis; Electrochemical analysis; Fertilizers—Analysis; Flue gas—Analysis; Gas analysis; Gasoline—Analysis; Indicators and test papers; Iodometry; Iron—Analysis; Metallurgical analysis; Nitrogen—Analysis; Oil analysis; Paint—Analysis; Petroleum—Analysis; Plants—Chemical analysis; Soap—Analysis; Soil analysis; Spectrum analysis; Steel—Analysis; Sugar—Analysis; Tanning materials—Analysis; Turbidimeter; Varnish analysis; Volumetric analysis; Water—Analysis; Wood—Analysis

Bibliography

Revue de chimie analytique. Chimie & Ind 12:638-49 O '24

Qualitative

L'analyse qualitative élémentaire par les rayons positifs. C. Matignon. diags Chimie & Ind 11:847-56 My '24

Brief chemistry text on qualitative analysis. F. H. Currens. 50p Miner pub. co., Macomb, Ill. '24

Course of instruction in the qualitative chemical analysis of inorganic substances. A. A. Noyes. 9th ed. 190p Macmillan '23

Determination of traces of mercury: the sensitivity of the qualitative tests for mercury; a new method for the detection of mercury sensitive to one part in a billion. H. S. Booth and N. E. Schreiber. Am Chem Soc J 47:2625-9 N '25

Elementary qualitative analysis for college students. J: H: Reedy. 137p McGraw-Hill '24

Elements of qualitative analysis. W: A. Noyes. 7th ed., rev. 128p Holt '23

Laboratory manual of qualitative chemical analysis. A. R: Bliss. 3d ed., rev. 194p George Banta pub. co., Menasha, Wis. '23

Laboratory manual of qualitative chemical analysis, for pharmacy students. W: A. Larkin. 196p F. H. Evory & co., Albany, N.Y. '25

New qualitative tests for copper, iron and cobalt. M. L. Nichols and S. R. Cooper. Am Chem Soc J 47:1268-70 My '25

Outlines of qualitative chemical analysis. F. A. Gooch. 5th ed. 184p Wiley '24

Qualitative test to show the absence of citrate or tartrate in mixtures. J. B. Peterson. Ind & Eng Chem 17:1146 N '25

Systematic course of qualitative chemical analysis of inorganic and organic substances. H: W: Schimpf. 4th ed., rev. 201p Wiley '24

Systematic detection of the rarer chemical elements. A. A. Noyes and W: C. Bray. bibliog Chem R 1:277-91 O '24

Quantitative

Analytical methods for certain metals including cerium, thorium, molybdenum, tungsten, radium, uranium, vanadium, titanium, and zirconium. R. B. Moore and others. U S Bur Mines Bul 212:1-325 '23

Determination of cyanamide. L. A. Pinck. Ind & Eng Chem 17:459-60 My '25

Determination of small amounts of zinc in materials of organic nature; a microchemical method based on the fluorescence of zinc salts with urobilin. R. E. Lutz. J Ind Hygiene 7:273-90 [bibliog. p. 289-90] Je '25

Ether studies; the quantitative determination of peroxide as a contaminant. A. W. Rowe and E: P. Phelps. Am Chem Soc J 46:2078-85 S '24

Inorganic quantitative analysis. H. A. Fales. 493p Century co. '25

Preliminary notes on the direct determination of moisture. G. L. Bidwell and W. F. Sterling. diag Ind & Eng Chem 17:147-9 F '25

Quantitative analysis. J. M. Hendel. 137p Ginn '25

Quantitative analysis. E: G. Mahin. 3d ed. 595p McGraw-Hill '24

Quantitative analysis, containing theory, laboratory directions, problems, explanations of calculations and special topics in analytical chemistry. S. Popoff. 342p Blakiston '24

Quantitative analysis of mists and fogs, especially acid mists. H. C. Weber. diags Ind & Eng Chem 16:1239-42 D '24

Quantitative chemical analysis. F. Clowes and J. B. Coleman. 12th ed. 576p J. & A. Churchill, London '24

Quantitative determination of iron existing as ferrosilicon in artificial corundum. R. A. Heindl. Am Cer Soc J 8:671-6 O '25

CHEMISTRY, Analytic—Quantitative—*Cont.*

Quantitative determination of reduction products of free nitric acid solutions: namely—nitrogen peroxide, nitric oxide, nitrous oxide, nitrogen, nitrous acid and salts of hydroxylamine, hydrazine and ammonia. L. H. Milligan. diags J Phys Chem 28:544-78 Je '24

Quantitative methods for the analysis of hemicellulose in apple wood. W. E. Tottingham and F. Gerhardt. Ind & Eng Chem 16:139-40 F '24

Quantitative organic microanalysis. F. Pregl. 2d ed., rev. & enl. 190p Blakiston '24

Text-book of quantitative chemical analysis. A. C: Cumming and S. A. Kay. 4th ed. 432p Van Nostrand '22

Theory of quantitative analysis and its practical application. H: Bassett. 308p Dutton '25

CHEMISTRY, Biological. See Biological chemistry

CHEMISTRY, Botanical. See Botanical chemistry

CHEMISTRY, Industrial. See Chemical industries; Chemistry, Technical

CHEMISTRY, Inorganic

Chimie minérale. H. E. Copaux and H. Perpérot. 3v A. Colin, Paris '25

Comprehensive treatise on inorganic and theoretical chemistry. J. W. Mellor. v 4, 1074p Longmans '23

Modern inorganic chemistry. J. W. Mellor. new ed., enl. 1103p Longmans '25

See also Alkalies; Chlorides; Earths, Rare; Metals

CHEMISTRY, Legal

Chemistry and the detection of crime. W. Derome. Can Chem & Met 9:33-5 F '25

CHEMISTRY, Medical and pharmaceutical

Chemical research and medical practice. W: Willcox. Chem Age (Lond) 11:495-6 N 15 '24

Incompatibilities in prescriptions. E. A. Ruddiman. 5th ed. 330p Wiley '25

Influence of chemical research on medicine and forensic medicine. W: Willcox. Soc Chem Ind J (Chem & Ind) 43:1172-6 N 28 '24

Les médicaments en 1923. L. Herzog. Chimie & Ind 13:278-9 F '25

Organic medicaments and their preparation. E. Fourneau. 262p [bibliog. p. 256-7] Blakiston '25

Physiological and clinical chemistry. W: A. Pearson and J. S. Hepburn. 306p Lea & Febiger, Philadelphia and New York '25

Recent developments in chemical pharmacology. G. M. Dyson. Chem Age (Lond) 11:158-60 Ag 16 '24

See also Anesthetics, Local; Antiseptics; Chemotherapy; Disinfection and disinfectants; Materia medica; Pharmacy; Poisons

CHEMISTRY, Mineralogical. See Mineralogical chemistry

CHEMISTRY, Organic

Activation of hydrogen in organic compounds. E. H. Usherwood. Soc Chem Ind J (Chem & Ind) 42:1246-51 D 28 '23

Calorific value and constitution. M: F. Barker. J Phys Chem 29:1345-63 N '25

Carbon compounds; a textbook of organic chemistry. C. W. Porter. 494p Ginn '24

Chemical synthesis; studies in the investigation of natural organic products. H. Hepworth. 243p Van Nostrand '24

Co-ordination of organic molecules. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 43: 218-21 F 29 '24

Electronic theory of valency; intramolecular ionization in organic compounds. T. M. Lowry. Philos Mag 6th ser 46:964-76 N '23

Emission spectra of organic compounds. W: H. McVicker, J. K. Marsh and A. W. Stewart. Am Chem Soc J 46:1351-8 Je '24

Experimental organic chemistry. J. F. Norris. 2d ed. 220p McGraw-Hill '24

Introduction to organic chemistry. A. Lowy and B: Harrow. 389p Wiley '24

Introduction to organic research. E. E. Reid. 343p Van Nostrand '24

Legislation in relation to chemical industry; Rongalite case. W: E. Kay; W. J. Pope. Soc Chem Ind J (Chem & Ind) 43:464-7, 622-3 My 2, Je 13 '24

Men and manners. T. M. Lowry. il Soc Chem Ind J (Chem & Ind) 43:1048-50; 44:51-2, 73-5 O 24 '24, Ja 16-23 '25

Organic chemicals electrolytically produced; symposium. Chem & Met Eng 30:699-700 My 5 '24

Organic chemistry for advanced students. J. B. Cohen. 4th ed. 3v Longmans '23

Outlines of organic chemistry. F. J. Moore. 3d ed. 353p•Wiley '24

Practical methods of organic chemistry. L. Gattermann. 3d Am. ed. from 11th Germ. ed. 401p Macmillan '23

Reactivity of atoms and groups in organic compounds; the relative reactivities of the hydroxyl-hydrogen atoms in certain alcohols. J. F. Norris and A. A. Ashdown. Am Chem Soc J 47:837-46 Mr '25

Student's manual of organic chemical analysis, qualitative and quantitative. J. F. Thorpe and M. A. Whiteley. 250p Longmans '25

Synthetic organic compounds. S. P. Schotz. 412p E. Benn, ltd., London; Van Nostrand, N.Y. '25

Systematic organic chemistry. W: M. Cumming, I. V. Hopper and T. S. Wheeler. 557p Van Nostrand '23

Tenaciousness of organic residues. J. von Braun and K. Moldaenke. Chem Soc J 124 pt 1:1193-5 D '23

Text-book of organic chemistry. A. F. Holleman. 6th ed. 581p Wiley '25

Thermal data on organic compounds. G: S. Parks and K. K. Kelley. Am Chem Soc J 47:2089-97 Ag '25

Untersuchungen aus verschiedenen gebieten. E. Fischer. 914p J. Springer, Berlin '24

Use of solvents in synthetic organic chemistry. D. W. MacArdle. 217p [bibliog. p. 169-93] Van Nostrand '25

See also Acids, Fatty; Acids, Organic; Alcohols; Aldehydes; Alkaloids; Amines; Carbohydrates; Carbon; Carbon compounds; Cellulose; Condensation, Chemical; Diazo compounds; Essential oils; Esters; Gas; Glucosides; Grignard reagent; Hydrocarbons; Ketones; Proteins; Steric hindrance; Sugars; *also* Synthetic organic chemical manufacturers' association of United States; *also* names of organic substances, e.g. Aniline; Benzene

Laboratory manuals

Elementary organic chemistry. W: H: Barrett. 256p Oxford '22

Introduction to the practice of organic chemistry in the laboratory. H. B. Adkins and S. M. McElvain. 288p [bibliog. p. 153-7] McGraw-Hill '25

Laboratory manual of elementary organic chemistry. C: A. Brautlecht. 53p Burr press, Orono, Me. '23

Laboratory manual of organic chemistry. H. L. Fisher. 2d ed. 338p Wiley '24

Organic chemistry manual for beginners. C. E. Bolser. 21 l Dartmouth press, Hanover, N.H. '23

Nomenclature

Proposed international rules for numbering organic ring systems. A. M. Patterson. Am Chem Soc J 47:543-61 F '25

CHEMISTRY, Photographic. See Photographic chemistry

CHEMISTRY, Physical and theoretical

Chemistry and atomic structure. J: D: M. Smith. 221p [bibliog. p. 207-9] E. Benn, ltd., London; Van Nostrand, N.Y. '24

Colour and chemical constitution. V. E. Yarsley. Chem Age (Lond) 9:598-9 D 1 '23

Elementary physical chemistry. W: H: Barrett. 247p Longmans '23

CHEMISTRY, Physical and theoretical—*Cont.*

Experimental physical chemistry for students in the medical and allied sciences. B: S. Neuhausen. 53p H. N. Rudley, Phila. '23

Fundamentals of physical chemistry. A. Eucken. 699p McGraw-Hill '25

Influence of J. Willard Gibbs on the science of physical chemistry. F. G. Donnan. J Fr Inst 199:457-83 Ap '25

Inorganic physical chemistry. G. H. Cartledge. 463p Ginn '24

Lecture and laboratory experiments in physical chemistry. H: S. van Klooster. 2d ed., rev. & enl. 274p Chemical pub. co. '25

Method of Willard Gibbs in chemical thermodynamics. W. L. Miller. il Chem R 1:293-344 Ja '25

Physical chemistry. J. C. Philip. 3d ed. 367p Longmans '25

Physical chemistry for students of medicine. A. Findlay. 227p Longmans '24

Physical chemistry in biology and medicine. J. F. McClendon and G. Medes. 425p W. B. Saunders co., Philadelphia '25

Physico-chemical evolution. C: E. Guye. 172p Dutton

Practical results of the theoretical development of chemistry. F. Haber. J Fr Inst 199:437-56 Ap '25

Précis de chimie physique. H. Vigneron. 408p Masson et cie, Paris '24

Second year college chemistry. W: H: Chapin. 2d ed., rev. 354p Wiley '25

Spectroscopy and its relation to chemistry. H. Dingle. Soc Chem Ind J (Chem & Ind) 44:651-3, 674-5 Je 26-Jl 3 '25

Treatise on physical chemistry. H. S. Taylor, ed. 2v Van Nostrand '24

See also Absorption; Addition compounds; Adsorption; Agitation; Allotropy; Atomic theory; Atomic weights; Atoms; Boiling points; Catalysis; Chemical affinity; Chemical equilibrium; Chemical reaction; Compressibility; Condensation, Chemical; Coordination (chemistry); Critical point; Crystallization; Crystallography; Dew points; Dissociation; Double bond; Electrochemistry; Electrolysis; Electrolytes; Electrons; Emulsions; Evaporation; Flocculation; Fluorescence; Free energy; Freezing points; Fusion; Interfacial phenomena; Ions; Isomerism; Isotopes; Latent heat; Liquid air; Liquids; Melting points; Metastability; Mixtures; Molecular rearrangements; Molecular weights; Molecules; Optical rotation; Particles; Periodic law; Phase rule; Photochemistry; Precipitation (chemistry); Refraction, Atomic; Solids; Solubility; Solution (chemistry); Stereochemistry; Surface energy; Surface tension; Thermal analysis; Thermochemistry; Thermodynamics; Valence; Vapor pressure

CHEMISTRY, Physiological. See Physiological chemistry

CHEMISTRY, Technical

Applied chemistry. I. D. Garard. 496p Macmillan '24

Chemisch-technische vorschriften. O: Lange. v. 1, Metalle und minerale. 1011p Otto Spamer, Leipzig '23

Chemist in industry; work for a great transport company. A. T. Wilford. Chem Age (Lond) 10:649 Je 21 '24

Chemistry and civilization. A. S. Cushman. 2d ed., rev. 171p Dutton '25

Chemistry and industry. W. J. U. Woolcock. Soc Chem Ind J (Chem & Ind) 43:1003-5 O 10 '24; Abstract. Chem Age (Lond) 11: 370-1 O 11 '24

Chemistry as a source of new wealth. I. Griffith. Ann Am Acad 115:38-46 S '24

Chemistry in industry; a coöperative work intended to give examples of the contributions made to industry by chemistry. H. E. Howe, ed. Chemical foundation, inc., New York '24

Chemistry in public affairs. Chem Age 10: 290-1 Mr 22 '24

Chemistry in world affairs. H. E. Howe. il Sci Am 133:24-5, 96-7, 175-7 Jl-S '25

Chemistry of engineering materials. R. B. Leighou. 2d ed. 538p McGraw-Hill '25

Chemistry of steel making discussed at joint meeting of the Faraday society and the Iron and steel institute. Engineer 139:648-9 Je 12 '25; Engineering 119:739-40 Je 12 '25

Chemistry work of the Bureau of standards. W. F. Hillebrand. Am Inst Chem Eng Trans v 15 pt 2:87-96 '23; Same. Chem Age 31:533-6 D '23

Ve Congrès de chimie industrielle (Paris, 4-11 octóbre 1925). Génie Civil 87:351-6 O 24 '25

Complexity of the industrial chemist. H. K. Moore. il diags Ind & Eng Chem 17:202-11 F '25; Same. Oil Paint & Drug Rep 107:20+ Ja 26; 20+ F 2 '25; Same. Chem Age 33:21-5, 50-5 Ja-F '25; Same. Soc Chem Ind J (Chem & Ind) 44:1070-2, 1085-92 O 30-N 6 '25

Congress of industrial chemistry, Paris, Oct. 4-11. Engineer 140:371-2 O 9 '25

Industrial chemistry. A. Rogers, ed. 4th ed. 1267p Van Nostrand '25

Miracles, 1925 model, hot off the fire. H: Schott. Nation's Business 13:58+ Je '25

Modern chemistry and its wonders. G. Martin. 362p Van Nostrand

Oilmen's sundries and how to make them. 2d ed., rev & enl. 119p Van Nostrand '23

Physical chemistry and steel. R. A. Hadfield. Iron Age 116:408-9 Ag 13 '25

Plant products—chemical raw materials. W: A. Taylor. Am Inst Chem Eng Trans v 15 pt 2:193-201 '23; Same. Chem Age 31:549-51 D '23

Reports of the progress of applied chemistry. Soc Chem Ind J (Chem & Ind) 44:276-7 Mr 13 '25

Studies in filtration. B. W. Clarke, S. G. M. Ure and J. W. Hinchley. Chem Age (Lond) 12:106-7 Ja 31 '25

Traité d'analyses industrielles. C: Griffiths and L. Lévi. 671p Dunod, Paris '24

Twelve months of progress. D. H. Killeffer. Ind & Eng Chem 17:995-1001 O '25

Wealth that lies in chemistry. Chem Age 32: 330 Ag '24

See also Acetylene; Acid-resisting materials; Adhesives; Alcohol; Alkalies; Alloys; Ammonia; Blast furnace gas; Bleaching; Boiler scale; Canning and preserving; Celluloid; Cellulose; Cement; Chemical engineering; Chemical industries; Chemicals; Clay; Clay industries; Clay products; Coal distillation; Coal tar; Coal-tar products; Coke-oven gas; Corrosion and anti-corrosives; Cyanide process; Dehydration; Distillation; Dyes and dyeing—Chemistry; Electrochemistry; Emulsification; Emulsions; Explosives; Extraction processes; Fertilizers; Filters and filtration (technical chemistry); Flour; Food preservatives; Foundry chemistry; Fuel; Gas; Gas manufacture; Glass manufacture; Glue; Gums and resins; Hydrometallurgy; Ink; Leather; Metallurgical analysis; Metallurgy; Oils and fats; Ore treatment; Paint; Paper; Paper making; Paper making materials; Perfumery; Petroleum; Petroleum distillation; Petroleum refining; Porcelain; Potash; Pottery; Refractory materials; Refrigerants; Rubber; Sampling; Soap; Starch; Sugar; Sulfuric acid; Synthesis; Tanning; Tanning materials; Tar; Textile chemistry; Textile industry; Trade secrets; Vulcanization; Waste products; Wood distillation; Wood preservation

Bibliography

Abstracts of current chemical literature. See weekly numbers of Journal of the Society of chemical industry

Bibliography of bibliographies on chemistry and chemical technology. C. J. West and D. D. Berolzheimer. Nat Research Council Bul v 9, pt 3:1-308 Mr '25

Book reviews. See monthly numbers of Industrial and engineering chemistry

CHEMISTRY, Technical—Bibliography—*Cont.*
Manufacturers' technical publications. See monthly numbers of Industrial and engineering chemistry
Reference list of bibliographies. J. A. Sohon and W: L. Schaaf, comp. 100p H. W. Wilson co. '24
Systematic survey of rubber chemistry. C. W. Bedford and H. A. Winkelmann. 385p Chem. catalog co. '23

CHEMISTRY buildings. See Iowa. University—Chemistry building; Pomona college—Mason hall of chemistry

CHEMISTS
American chemist. L. M. Hussey. Can Chem & Met 8:241-3 O '24
Census of graduate research students in chemistry. J. E. Zanetti. map Ind & Eng Chem 16:402-3 Ap '24
Certification of chemists by the economic professional organization. T. Cooksey. Chem Age 32:431-2 O '24
Chemical ingenuing. Chem & Met Eng 31: 819-21 N 24 '24
Chemist and his work. H. Williams. Soc Chem Ind J (Chem & Ind) 44:31-3 Ja 9 '25
Chemistry as an avocation. L. Chalkley, jr. Chem Age 32:387-8 S '24
Chemists of prominence with British association. Can Chem & Met 8:193-5 Ag '24
Comment on Cook book chemistry. E. K. Mitchell. Chem Age 32:14 Ja '24
Complexity of the industrial chemist. H. K. Moore. il diags Ind & Eng Chem 17:202-11 F '25; Same. Oil Paint & Drug Rep 107: 20+ Ja 26; 20+ F 2 '25; Same. Chem Age 33:21-5, 50-5 Ja-F '25; Same. Soc Chem Ind J (Chem & Ind) 44:1070-2, 1085-92 O 30-N 6 '25
Eminent American chemists. D: H. Killeffer. 33 l D: H. Killeffer, 19 E. 24th St, New York '24
Engineers and chemists; status and employment in industry. 92p International labour office, Geneva '24
Faraday as a chemist. W: J. Pope. Engineer 140:162-3, 195-6 Ag 14-21 '25
Highs and lows in a busy chemist's life. Am Dyestuff Rep 14:193-4, 219-20, 263-4, 370, 411-12, 437, 468-9, 506 Mr 23-Ap 20, Je 1-Jl 27 '25
How about the chemist? E. R. Fawcett. Gas Age 54:317-18 S 6 '24
Industrial chemistry as a career. A. C. Chapman. Chem Age (Lond) 10:158 F 16 '24
Is the practice of chemistry a profession, a trade, or a tool? J: E. Teeple. Ind & Eng Chem 17:665-6 Jl '25
Licensing of chemists. R. E. Wilson. Chem Age 33:4 Ja '25
Nosaernu lakimek; why is it that the chemist occupies a relatively ignominious place in popular esteem? Chem & Met Eng 31:304-6 Ag 25 '24
Pioneers of chemical industry in Huddersfield. L. G. Paul. Soc Chem Ind J (Chem & Ind) 44:10-11 Ja 2 '25
Present status of the chemists of Germany. W. Roth. Chem Age 31:485-6 N '23
Profession of chemistry; what can we make of it? E. F. Armstrong. Chem Age (Lond) 12:356 Ap 11 '25
Proposed standard employment contract for chemists. L. Van Doren. Chem Age 32:98-9 F '24
Shall my boy become a chemist? Paper 34: 897-8 S 4 '24
Some factors which make for success in chemistry. A. C. Chapman. Chem Age 32: 119-22 Mr '24
Technically compensated. G: P. Bowman. Chem Age 32:81-4 F '24
Training of chemists in bacteriology. D: Ellis. Soc Chem Ind J (Chem & Ind) 43:589-91, 1075-6 Je 6, O 31 '24
Would fix the status of professional chemists. Chem & Met Eng 29:1112 D 17 '23

See also American institute of chemists; Chemical education; Chemical engineers; Chemistry—Study and teaching; *also* names of chemists, e.g. Béguin, Jean; Caro, Heinrich; Chevreul, Michel Eugène; Dalton, John; Dewar, James; Hart, Edward; Keller, Harry Frederick; Noyes, William Albert; Rosengarten family; Sadtler, Samuel Philip; Wiley, Harvey W.

Advertising

How can consulting chemists extend their practice? Chem Age (Lond) 10:30-1 Ja 12 '24

Directories

1924 year book. 210p Howes publishing co., New York '24

CHEMOTHERAPY
New organic mercurials and their therapeutic applications. E. C. White. bibliog Ind & Eng Chem 16:1034-8 O '24
Organic compounds of chemotherapeutic value; Bayer 205. B. Heymann. Chem Age 32:367-70 S '24
Progress and prospects in chemotherapy. H. H. Dale. Soc Chem Ind J (Chem & Ind) 43:932-40 S 19 '24
Trypanocidal action and chemical constitution; arylamides of *p*-aminophenylarsinic acid. H. King and W: O. Murch. Chem Soc J 125:2595-2611 D '24

CHENOPODIUM oil
Chenopodium oil; the hydrocarbon fraction. T: A. Henry and H. Paget. Chem Soc J 127:1649-59 Jl '25; Abstract. Soc Chem Ind J (Chem & Ind) 44:606 Je 12 '25

CHERBOURG, France
Cherbourg to become new French transatlantic port. Eng N 93:219 Ag 7 '24
Les transformations du port de Cherbourg. A. Pawlowski. il diags plans Génie Civil 85:389-94 N 1 '24

CHERT
Chert unfit for coarse aggregate in concrete. F. V. Reagel. il Eng N 93:332-4 Ag 28 '24
Oriskany rocks in Illinois. T. E. Savage. il Am J Sci 5th ser 10:139-44 Ag '25

CHESAPEAKE and Delaware canal
Sea level canal between the Delaware and Chesapeake. il diags maps Eng N 95:702-6 O 29 '25

CHESAPEAKE and Ohio railway
Annual report, 46th, 1923. Ry Age 76:1177-9 My 10 '24; Same. Comm & Fin Chr 118: 2197-2200 My 3 '24; Abstract. Ry R 74:864-5 My 10 '24
Annual report, 47th, for year ended December 31, 1924. Ry Age 78:1245-8 My 16 '25; Same. Comm & Fin Chr 120:2439-42 My 9 '25
Chesapeake & Ohio completes modern hump yard. il map Ry Age 79:602-6 O 3 '25
C. & O. younger men's conference. Ry Age 78:937-9 Ap 11 '25

CHESTER concession
Chester concession. L. Martin. Ann Am Acad 112:186-8 Mr '24

CHESTNUT blight
Will the blighted chestnut tree come back? il Sci Am 132:263+ Ap '25

CHEVREUL, Michel Eugène, 1786-1889
Le centenaire des découvertes de Chevreul. Génie Civil 87:355-6 O 24 '25

CHEW, Frank K., 1858-1924
Sketch. por Sheet Metal Worker 15:107-8+ Mr 14 '24; Sanitary & Heat Eng 101:179-80 Mr 21 '24; Heat & Ven 21:77-8 Ap '24

CHEWING gum
Conveyors handle chewing gum. W. B. Ranney. il Management & Adm 8:387-90 O '24

CHICAGO
Electrical Chicago of the seventies and after. W: E. Keily. Elec W 84:637-9 S 20 '24
Planning Chicago's development. W Soc E J 30:[current news]62-6 Ap '25
Project for lake front development of the city of Chicago. E. Saarinen. il diags map plans Am Arch 124:487-514 D 5 '23
Suggests transportation plan for Chicago. W Soc E J 29:[current news]24-7 F '24
Where wealth faces West. E. Dakin. Comm & Fin 14:679-80 Ap 15 '25

See also Banks and banking—Chicago; Building trades—Chicago; Electric plants (central stations)—Chicago

CHICAGO—*Continued*

Architecture

London guarantee and accident building, Chicago, Ill. il Am Arch 126:191-2, pl 73-80 Ag 27 '24

Zoning skyscrapers in Chicago. A. N. Rebori. il Arch Rec 58:88-90 Jl '25

See also Straus, S. W., & company building, Chicago; Wrigley building, Chicago

Bridges

Cable-operated pontoon bridge over Chicago river. diags Eng N 93:864-5 N 27 '24

Structural design of bridges in Grant Park. C. R. Hoyt. diags plans W Soc E J 30:420-34; Discussion. 434-6 O '25

Viaduct is built of reinforced concrete and encased steel; Roosevelt Road viaduct built in two parallel sections. il diags Eng N 95: 297-9 Ag 20 '25

Churches

Isaiah Temple, Chicago, Ill. A. S. Alschuler. il Am Arch 126:623-6, pl 217-24 D 31 '24

Commerce

Railway-borne commerce in the Chicago region and its requirements. E. H. Lee. W Soc E J 30:204-10 Ap '25

Water-borne commerce of the Chicago region and its requirements. E. O. Griffenhagen. flow chart il map W Soc E J 30:185-203 Ap '25

Economic conditions

Chicago's position as a security mart. L: E. Delson. Bankers M 109:840+ O 31 '24

Fine arts building, World Columbian exposition

Saving the Fine arts building. A. N. Rebori. il Arch Rec 56:93-5 Jl '24

Harbor

Fundamentals of terminal building. R. W. Putnam. W Soc E J 30:177-84 Ap '25

Hotels

Chicago Allerton house. P. H. Ogden. il Arch Forum 42:313-16, pl 58-60 My '25

Lake Shore Drive and the Belmont hotels, Chicago. il plans Arch Forum 41:217-20, pl 57-60 N '24

Pearson hotel, Chicago. il plans Arch Forum 41:225-6 N '24

Lighting

Chicago residence street lighting. J. C. Hail. il plans W Soc E J 30:286-95 Jl '25

Chicago's street-lighting program. Elec W 85:733 Ap 4 '25; Same cond. Eng & Contr (R & S) 63:1006 My 6 '25; Abstract. Pub Works 56:169 My '25

Chicago's $2,000,000 extension to its municipal street lighting system. J. T. Miller. il plans Gen Elec R 28:144-50 Mr '25

Parks

Grant park stadium, Chicago. il Arch Forum 42:79-80, pl 9-10 F '25

Refectory building and boat landing, Columbus Park, Chicago. Am Arch 124:458a-g N 21 '23

Railroads

Approve Calumet harbor ordinance. W Soc E J 30:[current news]73-4 Je '25

Chicago union station forms double-end terminal. il diags plans Eng N 91:928-34 D 6 '23

Chicago Union station is formally opened. G: E. Boyd. il Ry R 77:121-5 Jl 25 '25

Design of Illinois Central terminal at Chicago introduces many problems. W. P. Cronican. diag Ry Age 76:447-9 F 23 '24

Noteworthy passenger terminal completed at Chicago. W. S. Lacher. il diags plans Ry Age 79:7-28 Jl 4 '25

Progress on the Chicago union station. il plans Ry R 74:416-22 Mr 8 '24

Railway borne commerce in Chicago. E. H. Lee. Ry R 76:443-7 Mr 7 '25; Same cond. Ry Age 78:561-3 Mr 7 '25

Some of the Illinois Central plans for its Chicago terminal. Ry Age 78:736-40 Mr 14 '25

Some things which the Erie railroad is doing; recent extensions of facilities in New York and Chicago. il Ry R 75:423-30 S 20 '24

Steam railroad suburban transportation in Chicago. F. E. Morrow and others. W Soc E J 29:127-32; Discussion. 132-41 Mr '24

Suburban electric and steam railway traffic. J. S. Hyatt. W Soc E J 30:168-71 Ap '25

Union station meetings of Western society of engineers. W Soc E J 30:[current news] 140-3 O '25

Rapid transit

Annual reports of Chicago railways company and Chicago City railway company. Comm & Fin Chr 120:2141 Ap 25 '25

Chicago and Milwaukee grants defeated. Elec Ry J 65:591-2 Ap 11 '25

Chicago executive said to be prepared to pay $162,000,000 for surface lines. Elec Ry J 63: 905 Je 7 '24

Chicago L does well. Elec Ry J 65:748 My 9 '25

Chicago negotiations deadlocked. Elec Ry J 64:460-1 S 20 '24

Chicago plans $720,902,000 unified transportation system. map plan Elec Ry J 65:369-71 Mr 7 '25

Chicago surface lines' growth. H: A. Blair. Aera 13:205-10 S '24

Chicago surface lines points out differences between Chicago and Philadelphia fares in an effort to correct false impression created by editorial comment. Elec Ry J 64:1052 D 20 '24

Chicago traction situation. Moody's Inv Serv 17:96 Mr 19 '25

Chicago's loop has 1,200,000 people daily. Elec Ry J 64:940 N 29 '24

Development of Chicago transportation. C: V. Weston. Elec Ry J 63:301-3 F 23 '24

Elevated sells stock direct. Elec Ry J 63:795 My 17 '24

Engineers would better Chicago transport. Eng N 92:377 F 28 '24

Mayor has subway measures. Elec Ry J 64: 709-10 O 18 '24

New Chicago company. Elec Ry J 63:156 Ja 26 '24

124,566,209 passengers in Chicago in July. Elec Ry J 66:341 Ag 29 '25

1,492,727,542 ride surface lines. Elec Ry J 65:522-3 Mr 28 '25

Purchase plan. Elec Ry J 65:75, 115-16, 201-2, 271-2, 383-4, 481 Ja 10-17, 31, F 14, Mr 7, 21 '25

Railway ordinance passes Chicago council. Elec W 85:581 Mr 14 '25

Rapid transit and interurban development in Chicago. B. I. Budd. Elec Ry J 63:300-1 F 23 '24

Rapid transit plan. S: Insull. map Elec Ry J 63:337-8 Mr 1 '24

Rapid transit plans submitted in Chicago. Elec Ry J 64:742-3 O 25 '24

Relief from congestion suggested in Chicago. Elec Ry J 63:907-8 Je 7 '24

Report and recommendations on a physical plan for a unified transportation system for the city of Chicago. R. F: Kelker, jr. 175p Committee on local transportation, City council. Chicago '23

Report of committee on local passenger transportation of the Western society of engineers. W Soc E J 29:[current news] 41-4 Mr '24; Excerpt. Elec Ry J 63:388 Mr 8 '24

Rerouting Chicago cars. Elec Ry J 63:683-7; 64:366, 843-4; 66:48 My 3, S 6, N 15 '24, Jl 11 '25

Street car and rapid transit subways proposed for Chicago. il map Elec Ry J 66: 159-62 Ag 1 '25

Technical papers presented before annual convocation of Western society of engineers, Chicago, Feb. 6-7. W Soc E J 29:65-165 Mr '24

$12,815,416 divided in Chicago. Elec Ry J 63: 523-4 Mr 29 '24

CHICAGO—Rapid transit—*Continued*
Urban transportation, rapid transit and surface lines. C: V. Weston. W Soc E J 30: 171-6 Ap '25
West side routes opened in Chicago. il map Bus Transportation 3:187-8 Ap '24
What rerouting did for Chicago. G. A. Richardson. il maps Aera 13:937-42 Ja '25

See also Motor bus lines—Chicago; *also* Chicago, North Shore and Milwaukee railroad

Sanitary affairs

Chicago sanitary district review board organized. Eng N 93:684 O 23 '24
Chicago sanitary district's 1925 budget $23,763,000. Eng N 94:91 Ja 8 '25
Diversion into Chicago drainage canal. W. G. Bruce. Can Eng 46:147-9, 165-7 Ja 15-22 '24
Some public health engineering problems in Chicago. A. E. Gorman. W Soc E J 30: 141-5 Ap '25; Abstract. Eng N 94:402 Mr 5 '25

See also Chicago drainage canal

Sewerage

Four new sewage-works of North Shore sanitary district. S: A. Greeley. il maps Eng N 93:456-7 S 18 '24
Sewage problem of the sanitary district of Chicago. L. Pearse. Munic & Co Eng 66: 281-4 Je '24; Same. Eng & Contr (W W) 62:74-6 Jl 9 '24

See also Chicago drainage canal

Streets

Chicago street improvement projects. Pub Works 55:278-9 S '24
Construction methods on double-deck street, Chicago. il diag plans Eng N 95:662-5 O 22 '25
Design and construction features of the South Water street improvement. T. A. Evans. diags plans W Soc E J 30:80-94; Discussion. 94-5 Mr '25
Design and structure of double-decking street, Chicago. il diags plans Eng N 95: 632-5 O 15 '25
Double decked, South Water street improvement in Chicago. P. E. Green. Munic Eng 66:4-6 Ja '24
Increasing the capacity of existing streets. C. D. Hill and J. L. Crane, jr. il Am Soc C E Pro 50:713-21 My '24; Same. Eng & Contr (R & S) 62:292-4 Ag 6 '24
Inundation used on Wacker drive, Chicago. il Concrete 27:17-21 S '25
One year of traffic lights on the "Boul Mich." W: G. Beard. il Nat Safety N 10:49+ O '24
Pedestrian traffic. H. E. Young. il diags plans W Soc E J 29:65-86 Mr '24; Abstract. Elec Ry J 63:291-5 F 23 '24
Plan of Chicago in 1924; with special reference to traffic problems. E. S. Taylor. Ann Am Acad 116:224-31 N '24
Present Chicago paving practice. J: B. Hittell. il W Soc E J 30:298-306 Jl '25; Same. Eng & Contr (R & S) 63:1210-15 Je 3 '25; Same. Munic & Co Eng 69:138-44 S '25
Regional planners lay basis for wider highways. Eng & Contr (R & S) 64:812 O 7 '25
Relation of transportation to the Chicago plan. E. S. Taylor. il maps W Soc E J 29: 116-26 Mr '24
Second-story sidewalks in Chicago. J. H. Sawyer. Elec Ry J 63:219-20 F 9 '24
South Water street improvement. H. E. Young. W Soc E J 30:73-80 Mr '25
South Water street improvement, Chicago. A. N. Rebori. il Arch Rec 58:216-22 S '25
Various suggestions for easing traffic congestion in Chicago. Z. C. Elkin. Elec Ry J 63:221-2 F 9 '24
Vehicular traffic in Chicago and Cook county. G: A. Quinlan. flow chart map W Soc E J 30:158-67 Ap '25; Same abr. Munic & Co Eng 68:125-8 Mr '25

Suburbs

See also Hinsdale, Illinois

Theaters

Description of the Capitol theater, Chicago. J. Eberson. il Arch Forum 42:373-6 Je '25

Water supply

Experiences with large water tunnels in Chicago. A. E. Gorman. diags Am Water Works Assn J 14:175-89 S '25
Filters for Chicago's water supply. Pub Works 56:293-4 Ag '25
Filtration plants for Chicago water proposed. diag Eng N 94:782 My 7 '25
Improved water supply for Chicago and the relation of metering to service. J: Ericson. W Soc E J 29:371-8 O '24; Excerpts. Eng & Contr (W W) 63:1292-5; Discussion. M. E. Adams. 1295-6 Je 10 '25
Metering the water supply of the city of Chicago. H: A. Allen. il charts map W Soc E J 29:379-400 O '24; Same cond. Eng & Contr (W W) 63:517-25, 751-60 Mr 11, Ap 10 '25; Discussion. W Soc E J 29:400-4 O '24
November typhoid epidemic in part of Chicago. diag maps Eng N 92:116-21 Ja 17 '24
Report on universal metering for the city of Chicago. D. H. Maury and Gordon. diags Eng & Contr (W W) 64:343-53, 567-74 Ag 12, S 9 '25
Secretary of war's concern over water waste at Chicago. J: M. Goodell. map Am Water Works Assn J 13:556-87 My '25
Water meter ordinance for city of Chicago. Eng N 95:443 S 10 '25
Water metering program for Chicago proposed. Eng N 94:1033 Je 18 '25
Water supply problem in relation to the future Chicago; plan to build combined filter plants and recreation piers. J: Ericson. il diags plan W Soc E J 30:125-39 Ap '25; Abstract. Eng N 94:353 F 26 '25; Discussion. W Soc E J 30:139-41 Ap '25
Western Avenue pumping station. L. D. Gayton. diag W Soc E J 30:235-48 Je '25
Why Chicago needs universal meterage. J: Ericson. diag Eng & Contr (W W) 62:337-9 Ag 13 '24

CHICAGO and Alton railroad
Annual report, 19th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2539 My 16 '25

CHICAGO & eastern Illinois railway
Annual report, 2d, 1923. Comm & Fin Chr 118:2565-6 My 24 '24
Annual report, 3d, for year ended Dec. 31, 1924. Comm & Fin Chr 120:2677 My 23 '25
Chicago & Eastern Illinois securities. Moody's Inv Serv 16:343 S 11 '24
T. C. Powell elected president of C. & E. I. Ry Age 79:141-3 Jl 18 '25

CHICAGO & north western railway
Annual report, 64th, 1923. Ry Age 77:83-5 Jl 12 '24; Same. Comm & Fin Chr 118:2585-8 My 24 '24
Annual report, 65th, for year ended December 31, 1924. Comm & Fin Chr 120:2433-6 My 9 '25; Excerpts. Ry Age 78:1240-2 My 16 '25; Ry R 76:920-1 My 16 '25
Chicago and Northwestern sec. 7s, 1930. Moody's Inv Serv 17:131 Ap 16 '25
Hughitt and Finley retire; Sargent elected president. Ry Age 78:1641-2 Je 27 '25
North Western reports decrease in net income. map Ry Age 77:67-9 Jl 12 '24
North Western system reports poor earnings. map Ry Age 78:1219-21 My 16 '25

CHICAGO board of trade
Adoption by Chicago Board of trade of new rule to curb price fluctuations. Comm & Fin Chr 121:1866 O 17 '25
Project for cotton futures trading on the Chicago board of trade. A. R: Marsh. Econ W n s 28:363-4 S 13 '24

CHICAGO brick exchange
Finding markets for Chicago brick. il Brick & Clay Rec 66:117-19 Ja 20 '25

CHICAGO brick exchange—*Continued*

Insurance bureau

Investment in humanity; Chicago brick manufacturers have own liability insurance bureau. W. G. Bohnsack. Brick & Clay Rec 64:412-15 Mr 18 '24

CHICAGO, Burlington & Quincy railroad

Annual report, 70th, 1923. Comm & Fin Chr 118:2319-23 My 10 '24; Same cond. Ry Age 76:1238-9 My 17 '24

Annual report, 71st, for the year ended December 31, 1924. Comm & Fin Chr 120:2428-32 My 9 '25; Excerpt. Ry Age 78:1303-4 My 23 '25

Burlington celebrates its diamond jubilee. L. R. Wolff. il map Ry R 77:343-4 S 5 '25

Burlington shows increased net income. map Ry Age 78:1286-8 My 23 '25

C.B. & Q. recovers from severe floods. il maps Ry Age 75:968-70 N 24 '23

How large systems are formed. maps Ry Age 78:1653-6 Je 27 '25

Improvement program. Ry R 74:1039-40 Je 7 '24

Narrow margin over Burlington dividends. map Ry Age 76:1213-15 My 17 '24

New 17-mile cut-off eliminates pusher service. il map Ry Age 77:442-6 S 13 '24

CHICAGO drainage canal

Canada protests Chicago diversion. Can Eng 46:609 Je 10 '24

The case for Chicago. Eng N 94:262-3 F 12 '25

Chicago diversion decision pivotal St Lawrence issue. Eng N 93:762 N 6 '24

Chicago diversion illegal. Can Eng 48:133 Ja 13 '25

Chicago sanitary district issued permit to divert 8,500 sec.-ft.; text. Eng N 94:448-50 Mr 12 '25

Chicago's abstraction opposed. Can Eng 48: 399 Ap 14 '25

Chicago's diversion of water from the Great Lakes; a history of one of the noted cases of water diversion with state, national and international complications. Eng N 92:28-31 Ja 3 '24

Detroit protests diversion. Can Eng 47:536 N 25 '24

Diversion into Chicago drainage canal. W. G. Bruce. Can Eng 46:147-9, 165-7 Ja 15-22 '24

Diversion opposed by U.S.A. Can Eng 47:567 D 2 '24

Effect of diversion on lake levels. Can Eng 45:610 D 25 '23

Engineer board reports on Chicago drainage canal. Eng N 94:22-5 Ja 1 '25; Same, Can Eng 48:125-8 Ja 13 '25; Abstract. Power 61: 40 Ja 6 '25; Discussion. J. K. Finch. Eng N 94:368 F 26 '25

Rights vs. necessities at Chicago; editorial. Eng N 94:3 Ja 1 '25

Secretary of war's concern over water waste at Chicago. J: M. Goodell. map Am Water Works Assn J 13:556-87 My '25

Sewage disposal problem of Chicago. G: W. Fuller. W Soc E J 30:113-25 Ap '25

Sewage problem of the sanitary district of Chicago. L. Pearse. Munic & Co Eng 66: 281-4 Je '24; Same. Eng & Contr (W W) 62:74-6 Jl 9 '24

Supreme court hears argument in Chicago canal case. Elec W 84:1325 D 20 '24; Eng N 93:1010 D 18 '24

Supreme court restricts Chicago drainage diversion; text of unanimous decision. Eng N 94:110-12 Ja 15 '25; Abstracts. Elec W 85: 116 Ja 10 '25; Power 61:81 Ja 13 '25

Take steps to stop lake diversion. W. H. Bixby. Marine R 55:297-8 Ag '25

U.S. army engineer at Chicago reports on water diversion. R. W. Putnam. Eng N 93:184 Jl 31 '24

Will fight diversion of lake water. il Marine R 55:221-2 Je '25

Withdrawal of water from Lake Michigan by the sanitary district of Chicago, and the consequent lake lowering controversy. M. Knowles. il maps Eng Soc W Pa 41:221-50; Discussion. 251-8 Jl '25

CHICAGO fire, 1871

Summary of the Boston and Chicago conflagrations. E. R. Hardy. Spectator 112: 4 My 8 '24

CHICAGO foundry company

Chicago foundry company. E: A: Duddy. 63p Univ. of Chicago press, Chicago '24

CHICAGO Great western railroad

Annual report, 14th, 1923. Comm & Fin Chr 118:1903-4 Ap 19 '24

Annual report, 15th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2006-7 Ap 18 '25

S. M. Felton elected chairman of Great Western. Ry Age 79:853-5 N 7 '25

CHICAGO, Indianapolis and Louisville railway

Annual report, 28th—year ended Dec. 31, 1924. Comm & Fin Chr 120:1741 Ap 4 '25

CHICAGO Junction railway

Growth of business through Chicago Junction Ry's. union freight stations. E. L. Whitney. Ry R 75:201-2 Ag 9 '24

CHICAGO, Milwaukee & St Paul railway

Annual report, 59th, 1923. Ry Age 76:1847 Je 28 '24; Abstract. Ry R 74:907 My 17 '24

Annual report, 60th, for year ended Dec. 31, 1924. Comm & Fin Chr 120:2675-6 My 23 '25; Ry R 76:957-8 My 23 '25

Chicago, Milwaukee & St Paul. Moody's Inv Serv 17:95 Mr 19 '25

Chicago, Milwaukee & St Paul Ry. placed in receivers' hands. Comm & Fin Chr 120: 1410-12 Mr 21 '25; Bradstreet's 53:193 Mr 21 '25; Ry Age 78:795-8 Mr 21 '25; Ry R 76: 583-4 Mr 21 '25

Chicago, Milwaukee & St Paul railway securities. Moody's Inv Serv 16:231 Je 5 '24

Comparative cost of steam and electric operation. A. Armstrong. il Gen Elec R 28:212, 229-36 Ap '25

Economic advantages of railway electrification; abstracts of report of operation on the Chicago Milwaukee & St Paul Ry. il charts map Ry R 76:378-87 F 28 '25; Eng N 94:411 Mr 5 '25; J Elec 54:207-9 Mr 15 '25; Ry Age 78:514-18 F 28 '25; Power Pl Eng 29:364 Mr 15 '25; Discussion. Ry Age 78:541-2 Mr 7 '25

Electrification economies on the Chicago, Milwaukee & St Paul railway. W. D. Bearce. il map Gen Elec R 28:212, 218-28 Ap '25

Experience of the C. M. & St P. Ry. an outstanding example of the failure of regulation. Ry R 76:654-5 Ap 4 '25

Financial structure of the St Paul. G: C. Cox. Annalist 24:670 D 22 '24

Making nature pull the trains; electrification of the 648 miles of the Chicago, Milwaukee and St Paul railway, through five mountain ranges. L. K. Sillcox. il Am Ind 25: 27-30 My '25

Milwaukee earns charges with narrow margin. map Ry Age 76:1829-31 Je 28 '24

Outline of Roosevelt committee—reorganization plan. Comm & Fin Chr 121:1921-5 O 17 '25

Receivers of St Paul railroad offer rate plan to aid road. Comm & Fin Chr 121:36, 69-70 Jl 4 '25

Refutes rumors regarding Milwaukee receivership. H. E. Byram. Ry R 76:994-6 My 30 '25

Reorganization plan. Comm & Fin Chr 120: 2935-8, 3062, 3183 Je 6-20 '25; Comm & Fin 14:1143 Je 10 '25; Bradstreet's 53:370 Je 6 '25; Moody's Inv Serv 17:187, 195, 227 Je 4-11, Jl 9 '25; Ry Age 78:1404-6 Je 6 '25; Ry R 76:1029 Je 6 '25; Nat City Bank p 4-6 Jl '25

St Paul plan of rate relief. J. S. Eaton. Ry Age 79:137-40 Jl 18 '25

St Paul reorganization. Nat City Bank p 149-50, p 189-90 S, N '25

St. Paul's earning power. Moody's Inv Serv 17:218 Jl 2 '25

Securities. Moody's Inv Serv 17:251, 300 Jl 30, S 10 '25

Statement by reorganization managers. Comm & Fin Chr 121:1456-7 S 19 '25

CHICAGO, Milwaukee & St Paul railway —*Continued*
Views on reorganization. Ry Age 78:907 Ap 4 '25
Why the St Paul failed. C: F. Speare. Am Bankers Assn J 17:613+ Ap '25
Why the St Paul is bankrupt. Ry Age 78:818-20 Mr 28 '25

CHICAGO, North Shore & Milwaukee railroad
Automatic substations on the Chicago, North Shore & Milwaukee railroad. C: H. Jones. il map Gen Elec R 28:426-8 Je '25
Building the Waukegan cutoff on the North Shore Line. il diags map Elec Ry J 64:119-22 Jl 26 '24
Increase in business on North Shore line in 1924. Elec Ry J 65:673-4 Ap 25 '25
Increasing passenger business on Chicago, North Shore & Milwaukee road. G. Bennett. Aera 13:63-4 Ag '24
North Shore line completes $3,000,000 extension. il Elec Ry J 65:583-6 Ap 11 '25
North Shore Line eliminates bus competition; operates its own fleet. il map Ry Age 77:275-7 Ag 16 '24
North Shore rights through Chicago disputed. Elec Ry J 62:985 D 8 '23
$686,864 net income reported for 1923 by Chicago-Milwaukee line. Elec Ry J 63:431 Mr 15 '24

CHICAGO, Peoria and St Louis railroad
What about the patrons of an abandoned road? il map Ry Age 76:1077-9 My 3 '24

CHICAGO, Rock Island and Pacific railway
Annual report, 44th, 1923. Comm & Fin Chr 118:2059-61 Ap 26 '24
Annual report, 45th, for the fiscal year ended Dec. 31, 1924. Comm & Fin Chr 120:2292-5 My 2 '25
Control of Cotton Belt acquired by Rock Island. Ry R 76:547 Mr 14 '25
Examiner advises Interstate commerce commission not to approve acquisition of control of St. Louis Southwestern by the Rock Island. C. V. Burnside. Comm & Fin Chr 121:800-1 Ag 15 '25
St Louis Southwestern has had interesting history; Rock Island acquires control. map Ry Age 78:1091-4 My 2 '25

CHICAGO, St Paul, Minneapolis and Omaha railway
Annual report, 42d, 1923. Comm & Fin Chr 118:2966-8 Je 14 '24; Excerpts. Ry Age 77:86 Jl 12 '24
Annual report, 43d, for year ended December 31, 1924. Comm & Fin Chr 120:2437-9 My 9 '25; Excerpts. Ry Age 78:1243 My 16 '25; Ry R 76:921-2 My 16 '25
North Western reports decrease in net income. map Ry Age 77:67-9 Jl 12 '24
North Western system reports poor earnings. map Ry Age 78:1219-21 My 16 '25
Stocks. Moody's Inv Serv 17:23 Ja 15 '25

CHICAGO, South Shore & South Bend railroad
South Shore interurban being improved. Elec Ry J 66:562-3 O 3 '25

CHICAGO stock exchange
Chicago stock exchange record of prices for 1924. Comm & Fin Chr 120:505-6 Ja 31 '25
Volume of business on the Chicago stock exchange. Comm & Fin Chr 120:510 Ja 31 '25
Where wealth faces West. E. Dakin. Comm & Fin 14:679-80 Ap 15 '25

CHICAGO tribune
Glimpse into the plants of the Chicago tribune company. il Ind Eng 82:462-3 O '24

CHICAGO Tribune building
Building details and equipment of Tribune tower, Chicago. Eng N 94:310-11 F 19 '25
Mechanical equipment of the Tribune tower. J. A. Sutherland. W Soc E J 29:465-7 D '24; Same. Eng & Contr (Bldgs) 63:888-90 Ap 24 '25
34-story steel-frame tower building in Chicago. il diags Eng N 94:848-50 My 21 '25
Tribune building, Chicago, Ill.; views. Am Arch 128:pl 264-71 O 5 '25
Tribune tower. H. Onderdonk; J: M. Howells. il W Soc E J 29:443-50 D '24
Tribune tower building, Chicago. il plans Arch Forum 41:100 S '24
Tribune tower, Chicago. il Arch Forum 43:185-90, pl 57-61 O '25
Tribune tower; general description of the structural work. H. J. Burt. il diags plans W Soc E J 29:451-64 D '24; Same. Eng & Contr (Bldgs) 63:629-43 Mr 25 '25
Underpinning printing plant for new deep foundations. il diags Eng N 93:982-5 D 18 '24

CHICAGO trust company
Making of a trust company. W: T. Cross. 59p Chicago trust co., Chicago '23

CHICAGO tunnel company
Accident prevention in Chicago's freight subway. C. T. Fish. il Nat Safety N 11:9-11 Mr '25

CHICAGOF ISLAND, Alaska
Magmatic sulphide ore from Chicagof Island, Alaska. P. F. Kerr. il Econ Geol 19:369-76 Je '24

CHICK industry. See Poultry industry

CHICLE
Chicle and chewing gum. H. M. Hoar. U S Bur For & Dom Com Trade Information Bul 197:1-10 '24

CHIEF interchange car inspector's and car foremen's association of America
Annual convention, 22d, Chicago, Oct. 3 Ry Mech Eng 97:820-6; 98:21-6 D '23-Ja '24
Annual convention, 23d, Chicago, Sept. 23-25. Ry Mech Eng 98:608-13, 675-81 O-N '24; Ry R 75:479 S 27 '24
Annual convention, 24th, Chicago, Sept. 22-24. Ry Mech Eng 99:627-33, 708-10 O-N '25

CHIFFON
Dyeing chiffon. diag Textile World 67:35[illegible] My 30 '25

CHILD labor
Administration of child labor laws; standards applicable to the administration of employment-certificate systems. H. S. Woodbu[illegible] U S Children's Bur Pub 133:1-226 '24
Boston attorney's view on the twentieth amendment. F. Rackemann. Manuf Rec 61-2 O 16 '24
Child labor amendment. E: F. Waite. p 177-210 Reprinted from the Minnesota law review, by National league of women voters. 532 17th st., N.W., Washington, D.C. '25
Child labor amendment to the Constitution of the United States. J. W. Scroggs, ed. 89p Univ. of Oklahoma, Norman '24
Child labor among cotton growers of Texas. C: E. Gibbons and C. B. Armentrout. 124p National child labor committee, 215 Fourth ave., New York '25
Child labor and the constitution. R. G. Fuller. 323p Crowell '23
Child labor and the work of mothers on Norfolk truck farms. 27p U.S. Children's bur., Washington '24
Child labor in cotton fields of Texas. Monthly Labor R 21:547-8 S '25
Child labor in Maryland in 1923 and 1924. Monthly Labor R 21:98 Jl '25
Child labor in North Dakota. 67p U.S. Children's bur., Washington '23
Child labor in the United States, 1910 and 1920. Monthly Labor R 18:1281-2 Je '24
Child labor in Wisconsin. Monthly Labor R 19:1178-80 D '24
Children of the unskilled. E. L. Lewis. 109p P. S. King & son, ltd., London '24
Children working in the sugar beet fields of the North Platte Valley of Nebraska. S. A. Brown and R. O. Sargent. 106p National child labor committee, 215 Fourth ave., New York '24
Constitutional amendment to regulate child labor. Comm & Fin Chr 119:2025-8 N 1 '24
Constitutional amendment to regulate child labor voted down in Massachusetts at this week's election. Comm & Fin Chr 119:2139-40 N 8 '24
89,000 Georgia child workers dwindle to 275! J. H. Reed. Textile World 66:1541 S 20 '24
Employers and child labor bill. N. Sargent. Am Ind 25:19-23+ F '25

CHILD labor—*Continued*
Employment and welfare of children in cotton-growing areas of Texas. Monthly Labor R 19:128-30 Jl '24
Employment of young persons in the United States. 150p National industrial conference board, inc., New York '25
Future of the child labor question. H. G. Rowell. bibliog J Ind Hygiene 5:382-9 F '24
Health of working children in New York city. Monthly Labor R 20:1267-8 Je '25
Labour conditions and labour regulation in China. Int Labour R 10:1005-28 D '24
Law on employment of a minor. L. Childs. Am Mach 62:341-2 F 26 '25
Legal regulation of the employment of minors 16 years of age and over. E. A. Merritt. 26p U.S. Dept. of labor, Children's bureau, Washington '24
Minors in automobile and metal-manufacturing industries in Michigan. 131p U.S. Children's bur., Washington '23
Mississippi's laws protecting children. Manuf Rec 86:64 Ag 28 '24
Preposterous child labor amendment. M. Sykes. Comm & Fin 13:1557 Ag 20 '24
Recommendations of the Shanghai child labour commission. A. Anderson. Int Labour R 11:665-81 My '25
Report of Shanghai child labor commission. Monthly Labor R 19:1076-9 N '24
Selected articles on child labor. J. E. Johnsen, comp. 371p H. W. Wilson co. '25
Shortage of labour in the textile industry. Textile Inst J 15:P120-9 My '24
Should retarded children leave school for work. M. E. Roach. il Nation's Health 7: 539-41+ Ag '25
Should the twentieth amendment be ratified? S. G. McLendon. Manuf Rec 86:91 O 2 '24
States insist on handling child labor. F. B. Pletcher. Iron Tr R 76:385-7 F 5 '25
Status of the proposed constitutional amendment giving Congress regulatory power. Index p 10-11 D '24
Survey of child labor in agriculture in California, 1924. Monthly Labor R 21:334-6 Ag '25
That twentieth amendment and some further objections. A. P. Allen. Am Ind 25:5-8 Mr '25
Thoughtless thinking; amending the Federal constitution. F. Rackemann. Comm & Fin 13:702-3 Ap 9 '24
Twentieth amendment would deprive the child of its birthright. C. S. Slagle. Manuf Rec 86:67-9 O 23 '24
Welfare of children in cotton-growing areas of Texas. 83p U.S. Children's bureau, Washington, D.C. '24
Why child labor amendment failed. J. A. Emery. Textile World 67:2701+ Ap 18 '25
Woman and child labor. See monthly numbers of Monthly labor review
See also Sweating system

Bibliography
Federal control of child labor; a list of references. L. A. Thompson. Monthly Labor R 20:71-101 Ja '25

CHILD welfare
Child guidance clinics planned for problem children. V. V. Anderson. Nation's Health 6:684-6 O '24
New values in child welfare. Ann Am Acad 121:1-203 S '25
See also Child labor; Children—Care and hygiene; Day nurseries, Factory

CHILDREN
Care and hygiene
Florida adapts health work to her special needs. L. J. Reid. il Nation's Health 7: 662-4 O '25
French hospital at Tokio begins child welfare work. K. Moteki and S. Masaki. Nation's Health 7:239-41 Ap '25
Health of colored babies in St Louis. P. J. White. bibliog Nation's Health 7:257-9+ Ap '25
Health visitors in Liverpool. H. Knight. Nation's Health 7:486-7 Jl '25
Principal problems of child health work in New York city. E. H. Lewinski-Corwin. Nation's Health 6:462-4+ Jl '24
State and community cooperation aids child hygiene work. A. E. Ingraham. il map Nation's Health 7:523-6+ Ag 15 '25
See also Child welfare

Diseases
Pediatrics an important branch of preventive medicine. H: L. K. Shaw. Nation's Health 6:768-70 N '24

CHILDREN'S departments. See Department stores—Children's departments

CHILDS company
Childs company conv. 6s of 1929. Moody's Inv Serv 17:72 F 26 '25
Childs company convertible 6s of 1929 and common stock. Moody's Inv Serv 17:347 O 22 '25

CHILE
See also Bonds, Government—Chile; Copper mines and mining—Chile; Forests and forestry—Chile; Mines and mineral resources—Chile; Paper industry and trade—Chile; Railroads—Electrification—Chile; Sodium nitrate

Boundaries
President Coolidge announces award in Tacna-Arica dispute—upholds Chile's claim for a plebiscite. Comm & Fin Chr 120:1409-10 Mr 21 '25
President Coolidge decides Tacna-Arica dispute. Bradstreet's 53:177 Mr 14 '25
Tacna-Arica award final. Bradstreet's 53: 257-8 Ap 18 '25

Commerce
Chilean trade. Engineering 120:225 Ag 21 '25
Foreign trade of Chile. 17p Pan American Union, Washington, D.C. '25
Markets of northern Chile. R. S. Smith. U S Bur For & Dom Com Trade Information Bul 351:1-20 '25
Markets of southern Chile. U S Bur For & Dom Com Trade Information Bul 274:1-19 '24
Opening markets in Peru and Chile. E. R. Murphey. il System 46:281-4+ S '24

Economic conditions
Chile's buying power. Elec R (Lond) 93:672-3 N 2 '23
Conditions in Chile. Elec R (Lond) 96:633-4 Ap 17 '25
Foreign securities in American markets—Republic of Chile. Annalist 23:665+ Je 9 '24
Puzzle of the Chilean peso's plunge. G. B. Sherwell. chart Am Bankers Assn J 16:785-90 Je '24
Reciprocal trade and resources of Chile and the United States, in English and Spanish. 64p Chile-American assn., 32 Broadway, New York '24
See also Finance—Chile; Money—Chile; Wages—Chile

CHILEAN nitrate. See Sodium nitrate

CHILEAN nitrate producers' association
Producers of Chilean nitrate place restrictions on sales. Chem & Met Eng 30:799-800 My 19 '24

CHILI products
Advertising
Advertising lifts a plebeian product to the blue blood class; chili con carne. R. McDaniel. Sales Management 9:287-8 S 5 '25

CHILLED iron
Design of patterns for chilled castings. D. A. Hampson. Foundry 53:664-5 Ag 15 '25
Research inaugurated by car wheel makers. il Iron Age 113:1798-9 Je 19 '24
Ueber hartguss. P. Goerens and H. Jungbluth. diags Stahl & Eisen 45:1110-17 Jl 9 '25
Unusual story of the chilled iron wheel. F. K. Vial. Ry R 78:1066-9 Je 13 '25

CHILOCCO Indian school
Indian school in Oklahoma and its work. C. M. Sarchet. il Manuf Rec 86:84-5 O 9 '24

CHIMNEY saddles
Pattern for sheet metal chimney saddle. diags Sheet Metal Worker 16:304-5+ Je 5 '25

CHIMNEYS
L'auscultation des barrages et des cheminées. C: Rabut. Génie Civil 85:138-9 Ag 9 '24
Chimney was to blame. diag Dom Eng 111: 19-20 My 23 '25
Chimneys. E. W. Riesbeck. diags Dom Eng 112:20-2 Ag 29 '25
Chimneys for heating boilers. A. G. King. diags Dom Eng 106:20-3 F 16 '24
Clean chimneys prevent fire. il Sheet Metal Worker 16:624-5 S 25 '25
Copper used for smoke stacks. il Sheet Metal Worker 15:966 Ja 2 '25
For safe chimneys. Eng & Contr (Bldgs) 62: 1370 D 24 '24
Forced draft fan or higher stack. Power Pl Eng 28:406-7, 450, 617-18, 669, 716-17 Ap 1-15, Je 1-Jl 1 '24
Foundation under settling 175-ft. chimney reinforced. W. Z. Kline. il diags Eng N 95: 262-3 Ag 13 '25
Fuel oil. J. B. Rathbun. Pet Age 15:61 F 1 '25
Good chimneys essential to good furnace installations. W. Gunton. Sheet Metal Worker 16:579-80 S 11 '25
House construction that reduces heating costs. J. D. Hoffman. diags Gas Age 53:466+ Ap 12 '24; Same. Heat & Ven 20:47-8 S '23; Same cond. Sheet Metal Worker 14:712-13 O 12 '23
How and why are chimneys? diags Sheet Metal Worker 15:37-40, 74-5+ F 15-29 '24
Making a chimney beautiful. il Brick & Clay Rec 67:477 S 29 '25
Rational chimney design. Power 60:580, 855, 1029-30; 61:111, 149-50 O 7, N 25, D 23 '24, Ja 20-27 '25
Stream-line stack. il diags Power 61:788-92 My 19 '25
Supports for superimposed stacks. W. W. Clifford. diags Boston Soc C E J 12:221-31 My '25
What a chimney has to do. il diags Chem & Met Eng 31:930-3 D 15 '24

See also Draft; Fireplaces; Flues; Heating; Smoke prevention

Standards

Standards proposed by Smoke prevention association. Heat & Ven 21:66-7 S '24

Tables, calculations, etc.

Diameters and heights of stacks for steam boilers. E. C. Fisher. il charts Am Soc Heat & V E J 29:717-29 D '23
Does the chimney have proper dimensions? Power Pl Eng 29:918-19 S 1 '25
How to determine the proper size of chimney. T: S. Clark. Power 60:175-9 Jl 29 '24
Nouvelle méthode de calcul des cheminées industrielles. E. Lafon. Génie Civil 83:485-7 N 17 '23
Stock draft calculations. P. J. Fogarty. charts Gas Age 55:217-18 F 14 '25

CHIMNEYS, Concrete
Blasting a concrete smokestack. F. Mott and W: McCurdy. il Eng & Contr (G C) 63: 1310 Je 17 '25
Concrete chimney to serve two breechings. C. W. Geiger. diags Power Pl Eng 28:240-2 F 15 '24
Report of tests made to determine the temperatures in reinforced-concrete chimney shells. E. A. Dockstader. diags plans Am Concrete Inst Pro 21:204-14 '25; Same cond. Boston Soc C E J 12:153-6 Mr '25; Abstract. Power 62:69 Jl 14 '25; Discussion. Am Concrete Inst Pro 21:215 '25
To prevent cracks in concrete chimneys. H. H. Siegele. Concrete 24:169 Ap '24

CHIMNEYS, Iron and steel
Construction of jointless steel smokestacks. il Power 61:712 My 5 '25
Corrosion in steel stacks. C. C. Hermann. Power Pl Eng 29:161 Ja 15 '25
Corrosion of unlined stacks. F. Burton. Power 60:666-7 O 21 '24
Insulated stack is 402 ft. high. il Power Pl Eng 28:1279 D 15 '24
Selecting guys for steel chimneys. W. W. Christie. Power 60:977-8 D 16 '24
Special grouting prevents stack-base movements. H. D. Fisher. diag Power 62:297 Ag 25 '25

Painting

Facilitating the painting of power-plant stacks. R. D. Gillespie. diags Elec W 84: 1209-10 D 6 '24

Repair

Making emergency repairs on a steel stack. C. C. Hermann. diag Power Pl Eng 29:156 Ja 15 '25
Steel stack reinforced with gunite while in service. il Power Pl Eng 29:758 Jl 15 '25

CHIMPANZEES
Do apes reason? Sci Am 132:412 Je '25

CHINA
China awakening. Eng & Min J 120:3 Jl 4 '25
Heating situation in China. H. L. Alt. Am Soc Heat & V E J 30:301-6, 589-96, 669-75 Ap. Ag, O '24
Impressions of conditions in China and Japan gathered during a recent visit. C. G. Memminger. Manuf Rec 86:87-90 Ag 7 '24
Present day impressions of Japan and China. R. S. Hecht. Bankers M 109:243-5+ Ag '24

See also Advertising—China; Aeronautics—China; Architecture—China; Banks and banking—China; Cotton trade—China; Engineering—China; Engineering education—China; Labor laws and legislation—China; Prices—China; Railroads—China; Roads—China; Tariff—China; Telephone—China; Wages—China

Commerce

Americanizing ancient Amoy. A. W. Ferrin. World's Markets 15:7 Ap '24
China—an opportunity for American advertisers. J. B. Powell. il Ptr Ink M 7:41-2+ D '23
China waiting for British goods. Cassier's Ind Management 11:241-2 My 1 '24
Chinese business methods change. J. Arnold. Am Ind 26:47 Ag '25
Chinese market for American foodstuffs. L. A. Wheeler. U S Bur For & Dom Com Trade Information Bul 277:1-24 '24
Credit difficulties biggest obstacle in trade with China. C: E. Guest. Sales Management 9:222 Ag 22 '25
How Chinese trade adjusts itself to internal war and brigandage. Econ W n s 20:296-7 F 28 '25
Import trade of China. Elec R (Lond) 95:795 N 21 '24
Smaller selling unit gets Chinese market for Sun-maid. Ptr Ink 128:69-70+ Ag 28 '24
Trade of the United States with China. Shü-Lun Pan. 365p China trade bur., inc., 233 Bway, New York '24

Consortium

Dawes plan for China. C: Hodges. Annalist 24:543 N 24 '24

Economic conditions

Changing factors in the economic life of China. J: H. Nelson. U S Bur For & Dom Com Trade Information Bul 312:1-21 '25
China, an economic survey. 40p Am. bankers assn., New York '23
China's delayed development. Elec R (Lond) 93:952 D 21 '23
China's salvation—organized business. N. Peffer. il Nation's Business 12:50+ S '24
China's western development. C. G. Schluederberg. World's Markets 15:13 Ap '24
Chinese problem. Engineer 140:300 S 18 '25
Industrial conditions in China. Cassier's Ind Management 11:156-7 Mr 20 '24

CHINA—Economic conditions—*Continued*
Land of vast credit values. K. T. Tan. Credit M 26:14+ Mr '24
Present conditions in China and their effect upon Chinese government bonds. E. B. Hall. Annalist 24:446 N 3 '24
Securing trade in China. Engineering 117: 468-9 Ap 11 '24
Social survey of a Chinese village. Monthly Labor R 21:259-60 Ag '25
Socio-economic conditions in two Chinese villages. Monthly Labor R 20:990-2 My '25
Trouble in China. Economist 100:1228 Je 20 '25

See also Finance—China; Labor and laboring classes—China

Foreign relations

China and powers—the question of concessions and extra-territorial rights. Comm & Fin Chr 121:15-16 Jl 4 '25
France ratifies two Chinese treaties signed at Washington conference for limitation of armaments. Comm & Fin Chr 121:535 Ag 1 '25
Note from the powers to China. Bradstreet's 53:593 S 12 '25

United States

See also Boxer indemnity

Industries and resources

Chinese sericulture. Monthly Labor R 19:492-4 Ag '24
Higher education of the silkworm. P. N. Youtz. il Sci Am 133:166-7 S '25
Human hair—a rather unusual textile fiber; Chinese queues used almost exclusively. E. Cogliostro. il Color Tr J 14:63-5 F '24
Industrial developments in China. H. A. Fleet. il diag plan Elec R (Lond) 94:300-1 F 22 '24
Industrial progress in China; abstracts. C. T. Wang. Iron Age 115:1641 Je 4 '25; Iron Tr R 76:1391-2 My 28 '25

See also Cement industry and trade—China; Dye industry—China; Electric industries—China; Iron industry and trade—China; Iron ores—China; Machinery industry—China; Mines and mineral resources—China; Paper industry and trade—China; Silk manufacture and trade—China; Wool trade—China

Politics and government

Chinese wars, railways and unity. il Ry R 76: 225-8 Ja 31 '25
Civil war in China. Comm & Fin Chr 119: 1127, 1247, 1578-80, 1909-11, 2031-2 S 6-13, O 4, 25-N 1 '24
League of nations suggested as medium for rehabilitating China. Comm & Fin Chr 121: 935-6 Ag 22 '25
Military rivalry in China. Comm & Fin Chr 120:1046 F 28 '25

CHINA clay. See Kaolin

CHINA grass. See Ramie

CHINA wood oil. See Tung oil

CHINCH bugs
Chinch bug meets Waterloo in gas company tar. C. Lambert. il Gas Age 56:109 Jl 25 '25

CHINESE
Chinese business based on honor. T. K. Lowe. il Nation's Business 13:40+ Ag '25
Credit in Chinatown, N.Y. V. Harley. Credit M 27:19 Ja '25

CHINESE engineering and mining company, limited
Annual meeting, 12th, London, Dec. 8. Economist 99:980-1 D 13 '24

CHINESE wood oil. See Tung oil

CHINO copper company
Merger of Ray Consolidated and Chino copper companies awaits approval of stockholders. Eng & Min J 117:179 Ja 26 '24

CHINTZ
Chintz book. M. Percival. 103p Stokes '23

CHIRONOMIDAE
Pseudo-mosquitoes work damage. G: E. Beyer. il Nation's Health 7:633-4 S '25

CHISELS
Patternmaker uses chisel constantly. W. C. Ewalt. diags Foundry 53:122-4 F 1 '25

Manufacture

Standardization of chisel production. F. Johnstone-Taylor. diags Ry Mech Eng 98: 115-17 F '24

CHLORAMINE T
Activin. R. Feibelmann. Soc Dyers & Col J 41:138 Ap '25
Activine—a form of available chlorine. R: Feibelmann. Chem Age 32:417-18 O '24
Activine as the basis of bleaching cleansers; abstract. R. Feibelmann. Soc Dyers & Col J 41:222 Je '25
Convenient method for the preparation of arsinic acids from the corresponding chloroarsines. H. Burton and C: S. Gibson. Chem Soc J 125:2275-8 N '24
New chlorine bleaching compound. B. DePuyster. Color Tr J 16:137-40 My '25

CHLORAMINE yellow
Researches on thiazoles; the constitution of Columbia yellow (chloramine yellow) and the synthesis of some related compounds. M. T. Bogert and F. H. Bergeim. Color Tr J 15:63-8 S '24

CHLORATES
Evaluation of chlorates; a comparison of seven selected methods applied to a single lot of potassium chlorate of high purity. E. C. Wagner. bibliog il diags Ind & Eng Chem 17:1183-6 N '25

See also Alkali chlorates; Alkali perchlorates

CHLORIDE of lime. See Bleaching powder; Calcium hypochlorite

CHLORIDES
Action of acid chlorides upon trimethylamine. L. W. Jones and H. F. Whalen. Am Chem Soc J 47:1343-52 My '25
Cesium-cupric-mercuric triple chloride, Cs_2 $CuHgCl_4$; the failure to prepare Cs-Cu-Cd or Cs-Cu-Zn chlorides; and the varying complexity of certain triple salts. H. L. Wells. Am J Sci 5th ser 6:521-5 D '23
Decomposition potentials and polarization of certain heavy metallic chlorides dissolved in anhydrous pyridine. R. B. Mason and J. H. Mathews. diags J Phys Chem 29:1379-93 N '25
Relation between the structure of organic halides and the speed of their reaction with inorganic iodides. J. B. Conant and others. Am Chem Soc J 46:232-52; 47:476-501 Ja '24, F '25; Discussion [pt. 1.] 47:585-9 F '25
Relation between the structure of organic halides and the speeds of their reaction with inorganic iodides; the influence of unsaturated groups. J. B. Conant, W. R. Kirner and R. E. Hussey. Am Chem Soc J 47:488-501 F '25
Solubilities of rare-earth salts. M. D. Williams, H. C. Fogg and C. James. Am Chem Soc J 47:297-301 F '25
Solubility of slightly soluble chlorides in concentrated chloride solutions. J. Kendall and C: H. Sloan. Am Chem Soc J 47:2306-17 S '25
Study of the viscosities of solutions containing mixtures of mercuric, cupric and cobaltous chlorides with other chlorides for the purpose of finding the composition of the complex ions formed. N. A. Yajnik and R. L. Uberoy. Am Chem Soc J 46:802-8 Ap '24
Survey of products that afford industrial outlets for chlorine. P. S. Brallier. bibliog Chem & Met Eng 30:542-5 Ap 7 '24
Transference numbers of solutions of mixed chlorides; discussion of papers by Schneider and Braley and by Braley and Hall. D. A. MacInnes. Am Chem Soc J 47:1922-7 Jl '25

CHLORIDES—*Continued*
Vapor pressures of the common metallic chlorides and a static method for high temperatures. C. G. Maier. diags U S Bur Mines Tech Pa 360:1-54 '25

See also Alkyl chlorides; Ammonium chloride; Calcium chloride; Lead chlorides; Potassium chloride; Salt; Selenium monochloride; Silver chloride

Analysis

Determination of chlorides by means of a calorimetric titration and some experiments on the titration of mixtures of cyanide and halides. P. M. Dean and E. Newcomer. Am Chem Soc J 47:64-7 Ja '25
Tests of a wet oxidation and modified Volhard method for the determination of chlorides in plant tissue fluids. J: V. Lawrence and J. A. Harris. Am Chem Soc J 46:1471-7 Je '24

CHLORIDIZING processes
Blast roasting an improvement over old Patera process in Bolivia. R. D. Ferron. Eng & Min J 118:853-4 N 29 '24
Complex lead-zinc ores to be treated by chlorination and electrolysis. J. G. Potter. Eng & Min J 117:646 Ap 19 '24
Influence of certain solids and gases on the chloridization roast. A. B. Bagdasarian. bibliog Eng & Min J 119:962-4 Je 13 '25
Laboratory tests for chloride blast roasting and leaching. T. P. Holt. diags Eng & Min J 117:922-5 Je 7 '24
Silver in chloride volatilization. C. M. Bouton, W. C. Riddell and L. H. Duschak. diag U S Bur Mines Tech Pa 317:1-56 '24
Tintic Standard reduction plant. A. B. Parsons. flow sheet il diag Eng & Min J 120: 284-8 Ag 22 '25

CHLORINATION
Chlorination of benzoyl chloride. E: Hope and G: C. Riley. Chem Soc J 121:2510-27; 123:2470-80 N '22, O '23
Chlorination of ethyl alcohol. F: D. Chattaway and O. G. Backeberg. Chem Soc J 125:1097-1101 My '24
Chlorination of 2-amino-para-xylene and certain new azo dyes. A. S. Wheeler and M. Morse. Am Chem Soc J 46:2572-6 N '24
Depolarization of the chlorine electrode by organic compounds. M. A. Youtz. Am Chem Soc J 46:545-54 Mr '24
Preparation and chlorination of αβ-alkylacylcarbamides. E. Roberts. Chem Soc J 123:2779-82 N '23
Preparation of hexachloroethane by the chlorination of ethylene. G. E. Miller. diag Ind & Eng Chem 17:1182-3 N '25
Researches on sulphuryl chloride; the influence of catalysts on the chlorination of toluene. O. Silberrad. C: A. Silberrad and B. Parker. Chem Soc J 127:1724-31 Jl '25

CHLORINATION of water. See Water purification—Chlorination

CHLORINATION of wool. See Wool, Chlorination of

CHLORINE
Action of chlorine on mercury. A. F. O. Germann. J Phys Chem 28:1218-20 N '24
Action of halogens on phenylhydrazones; the action of chlorine. J. E. Humphries, H: Humble and R. Evans. Chem Soc J 127:1304-7 Je '25
Addition of chlorine gas to cooling water; abstract. Soc Dyers & Col J 40:295-6 S '24
Attempted electrolytic separation of the isotopes of chlorine and magnesium. J: E. G. Pilley. Philos Mag 6th ser 49:889-99 My '25
Catalytic decomposition of hydrogen peroxide in an acid chlorine-chloride solution. R. S. Livingston and W: C. Bray. Am Chem Soc J 47:2069-82 Ag '25
La cellulose au chlore; méthodes au chlore gazeux et à l'eau de chlore. U. Pomilio. il Chimie & Ind 11:423-33 Mr '24
Le chlore et la cellulose; état actuel et avenir de cette industrie. U. Pomilio. Chimie & Ind 11:1091-2 Je '24
Chlorine in sewage and waste disposal. J. C. Baker. il Ind & Eng Chem 17:1059-60 O '25
Chlorine industry seeks new markets. E. D. Kingsley. Chem & Met Eng 32:86 Ja 19 '25
Chlorine keeps condenser tubes clean. C. H. S. Tupholme. diag Power Pl Eng 28:1055 O 15 '24
Continuous conductivity method of measuring small concentration of chlorine in air. T. B. Hine. Ind & Eng Chem 16:952-3 S '24
Determination of the chlorine absorbed by unbleached sulfite pulp. R. B. Roe. diag Ind & Eng Chem 16:808-11 Ag '24; Same. Paper Tr J 79:43-6 O 9 '24
Discovery and separation of the isotopes of chlorine and the whole number rule. W: D. Harkins and T. H. Liggett. J Phys Chem 28:74-82 Ja '24
Influence of water on certain chemical reactions; the effect of various concentrations of water vapor on the reaction between chlorine and potassium iodide and chlorine and potassium bromide. L. B. Parsons. Am Chem Soc J 47:1817-20 Jl '25
Manufacture of hydrochloric acid from chlorine. W. Hirschkind. diag Ind & Eng Chem 17:1071-3 O '25
Mechanism of the inhibition of the catalytic action of platinum black and partially reduced nickel oxide by chlorine. M. C. Boswell and C. H. Bayley. J Phys Chem 29:11-19 Ja '25
Mechanism of the photochemical reaction between hydrogen and chlorine. A. L. Marshall. diag J Phys Chem 29:842-52, 1453-61 Jl, N '25
Photo-activation of chlorine. W. Taylor. Philos Mag 6th ser 49:1164-8 Je '25; Discussion. E. J: Bowen. 50:879-80 O '25
Photodecomposition of chlorine water and of aqueous hypochlorous acid solutions. A. J: Allmand, P. W. Cunliffe and R. E. W. Maddison. Chem Soc J 127:822-40 Ap '25
Photosensitive formation of water from its elements in the presence of chlorine. R. G: W. Norrish and E. K. Rideal. diag Chem Soc J 127:787-97 Ap '25
Quantitative investigation of the photochemical interaction of chlorine and hydrogen. M. C. C. Chapman. diag Chem Soc J 123:3062-81 D '23
Series spectra of the stripped atoms of phosphorus (Pv), sulphur (Svi), and chlorine (Clvii). I. S. Bowen and R. A. Millikan. il Phys R 25:295-305 Mr '25
Series spectra of three-valence-electron atoms of phosphorous (Piii), sulphur (Siv), and chlorine (Clv). R. A. Millikan and I. S. Bowen. Phys R 25:600-5 My '25
Series spectra of two-valence-electron atoms of phosphorus (Piv), sulphur (Sv), and chlorine (Clvi). I. S. Bowen and R. A. Millikan. Phys R 25:591-9 My '25
Study of the luminous discharge in chlorine; the electron affinity of halogen molecules. W. A. Noyes, jr. diag Am Chem Soc J 46: 1598-1606 Jl '24
Survey of products that afford industrial outlets for chlorine. P. S. Brallier. bibliog Chem & Met Eng 30:508-10, 542-5, 624-6 Mr 31-Ap 7, 21 '24

See also Halogens; Water purification—Chlorination

Analysis

Preparation of *o*-tolidine solution for estimation of chlorine. C: E. Roake. Ind & Eng Chem 17:257 Mr '25
Readjustment of present orthotolidin standards for chlorine. H: F. Muer and F. E. Hale. Am Water Works Assn J 13:50-69 Ja '25

Bibliography

Chlorine in the manufacture of paper pulp. C. J. West. Paper Tr J 79:43-4 O 2 '24

Manufacture

Electrolytic production of chlorine gas. A. L. Googins. Am Water Works Assn J 13:207-12 F '25

CHLORINE—Manufacture—*Continued*
Modern practice in electrolytic chlorine-caustic production. H. J. Payne. il diag Chem & Met Eng 31:334-8 S 1 '24

CHLORINE, Liquid
Bleach liquors from liquid chlorine. J. H. MacMahon. il diag Paper 33:13-16 Ap 10 '24
Detonation of gasoline and liquid chlorine mixtures. B: T. Brooks. il diag Ind & Eng Chem 17:752-3 Jl '25
Handling and use of liquid chlorine. diags Chem Age (Lond) 12:28-9 Ja 10 '25
Liquid chlorine is fast replacing bleaching powder. E. M. Allen. Chem & Met Eng 30: 88 Ja 21 '24
Multiple unit tank car for the transportation of liquid chlorine. M. Mauran. il diags Am Inst Chem Eng Trans v 14:167-73; Discussion. 173-4 '21-'22
Technical use of liquid chlorine in France. H. Barthelemy. diags Color Tr J 15:148-50 N '24
Transportation of liquid chlorine in fifteen-ton tank cars. J. L. K. Snyder and H. P. Wells. il diags Am Inst Chem Eng Trans v 14:145-65 '21-'22

Manufacture

Canadian salt company's processes for the manufacture of alkali-chlorine products. D. A. Pritchard and G. E. Gollop. flow sheet il diag Ind & Eng Chem 16:1056-62 O '24; Same. Soc Chem Ind J (Chem & Ind) 44: 220-3, 243-6 F 28-Mr 6 '25; Abstract. Chem Age (Lond) 11:346-7 O 4 '24
Manufacture of liquid chlorine at plant of Canadian salt co. ltd., Windsor, Ont. il Can Eng 47:404-5 O 7 '24
Purification and liquefaction of chlorine. diag Chem Age 31:495-6 N '23

CHLORINE compounds
Conversion of hydroaromatic into aromatic compounds; action of chlorine on 5-chloro-1:1-dimethyl-Δ^4-*cyclo*hexen-3-one. L. E. Hinkel. Chem Soc J 125:1847-55 S '24

CHLORINE dioxide
Action of light on chlorine dioxide. H: Booth and E. J: Bowen. Chem Soc J 127:510-13 Mr '25
Heats of solution and of decomposition of chlorine dioxide. H: Booth and E. J: Bowen. Chem Soc J 127:342-5 F '25

CHLORINE monoxide
Homogeneous gas reaction; the thermal decomposition of chlorine monoxide. C. N. Hinshelwood and C: R. Prichard. diag Chem Soc J 123:2730-8 N '23
Thermal decomposition of chlorine monoxide; relation to the general theory of bimolecular reactions. C. N. Hinshelwood and J. Hughes. Chem Soc J 125:1841-7 S '24

CHLOROAMINES
Hydrolysis of acylchloroamines in water. F: G: Soper. Chem Soc J 127:98-102 Ja '25
Hydrolysis of the *p*-toluenesulphonchloroamides in water. F: G: Soper. Chem Soc J 125: 1899-1910 S '24

CHLOROANTHRONES
Studies in the anthracene series. E: de B. Barnett and M. A. Matthews. Chem Soc J 123:2549-57 O '23

CHLOROBENZENE
Preparation of 2-aminoanthraquinone from phthalic anhydride and chlorobenzene. M. Phillips. Ind & Eng Chem 17:721-5 Jl '25

CHLOROBROMOMETHANESULFONIC acid
New method of diagnosing potential optical activity; the optical activity of chlorobromomethanesulphonic acid. J: Read and A. M. McMath. Chem Soc J 127:1572-99 Jl '25

CHLOROCARBONATES
New chlorocarbonates derived from aromatic and dihydroxy alcohols. R. E. Oesper, W. Broker and W. A. Cook. Am Chem Soc J 47:2609-10 O '25

CHLORODINITROBENZENE
Isomerism of the oximes; action of picryl chloride and of 2:4-dinitrochlorobenzene on aldoximes. O. L. Brady and L: Klein. Chem Soc J 127:844-52 Ap '25
Isomerism of the oximes; the action of 2:4-dinitrochlorobenzene on some isomeric aldoximes. O. L. Brady and R: Truszkowski. Chem Soc J 125:1087-96 My '24

CHLORODINITROTOLUENE
Ortho-chlorodinitrotoluenes; 2-chloro-3:6-dinitrotoluene. G. T. Morgan and T: Glover. Chem Soc J 125:1597-1601 Ag '24

CHLORODIPHENYLARSINE
Dimorphism of diphenylarsenious chloride (diphenylchloroarsine). C: S. Gibson and D. C. Vining. Chem Soc J 125:909-11 Ap '24

CHLOROFORM
Addition of chloroform to aldehydes. J. W. Howard. Am Chem Soc J 47:455-6 F '25
Addition products of methylethyl ketone with chloroform, bromoform and iodoform. J: B. Ekeley and C. J. Klemme. Am Chem Soc J 46:1252-4 My '24
Auto-oxidation of chloroform. A. M. Clover. Am Chem Soc J 45:3133-8 D '23

CHLOROFUMARYL chloride
Action of diacetyltartaric anhydride and chlorofumaryl chloride upon aromatic amines and hydrazines. F: D. Chattaway and G: D: Parkes. Chem Soc J 125:464-70 Mr '24

CHLOROHYDRATROPIC acid
Reactions of displacement in the tropic acid group. A. McKenzie and R. C. Strathern. Chem Soc J 127:82-8 Ja '25

CHLOROHYDRINS
Chlorohydrins of β-pinene. G: G. Henderson. and C. A. Kerr. Chem Soc J 125:102-6 Ja '24

CHLOROMETHANE. See Methyl chloride

CHLOROMETHYL ethers
Chloro ethers; preparation of some new chloro ethers and alkoxymethyl esters. J. W. Farren and others. Am Chem Soc J 47: 2419-23 S '25

CHLOROMETHYLFURAN
2-chloromethyl-furan from 2-furancarbinol. H: Gilman and C. C. Vernon. Am Chem Soc J 46:2576-9 N '24

CHLORONITROBENZENE
Chloronitrobenzenes and thiocarbamides. J: Taylor and A: E: Dixon. Chem Soc J 125: 243-50 Ja '24
Reactions of sodium mono-, di-, and tri-, sulphides with 1-chloro-2-nitro-, 1-chloro-4-nitro, and 1:4-dichloro-2-nitro-benzene. H. H: Hodgson and J. H: Wilson. Chem Soc J 127:440-4 F '25
Researches on thiazoles; the synthesis of benzothiazoles from ortho-nitrochloro-benzene. M. T. Bogert and F. D. Snell. Am Chem Soc J 46:1308-11 My '24
Solubility relations of isomeric organic compounds; the mutual solubility of *O, M, P* nitroanilines and of *O, M, P* nitro-chlorobenzenes. G. T. Kohman. J Phys Chem 29: 1048-56 S '25
Some notes on nitro compounds with special reference to the nitration of meta-chloro-nitro-benzene and para-chloro-toluene. H. H. Hodgson. Soc Dyers & Col J 41:327-9 O '25

CHLORONITROSOPHENOL
Nitrosation of phenols; 3-chloro-4-nitrosophenol and its conversion into two isomeric chloroquinonemonoximes. H. H: Hodgson and F. H. Moore. Chem Soc J 123:2499-2507 O '23

CHLORONITROTOLUENES
Mononitration of *p*-chlorotoluene. H. H: Hodgson and P: Anderson. Chem Soc J 125:2195-6 O '24

See also Chlorodinitrotoluene

CHLORO-OXIMINO compounds
Deaminization; evidence of the existence of aliphatic diazonium salts from the formation of chloro-oximino compounds. G. S. Skinner. Am Chem Soc J 46:731-41 Mr '24

CHLORO-PERBROMIDES
Chloro-perbromide equilibria. E. A: Dancaster. Chem Soc J 125:2038-43 O '24

CHLOROPHENOL
Nitration of *m*-chlorophenol. H. H: Hodgson and F. H. Moore. Chem Soc J 127:1599-1604 Jl '25

CHLOROPHENOXARSINE
6-chlorophenoxarsine. E. E. Turner and A. B. Sheppard. Chem Soc J 127:544-7 Mr '25; Discussion. Soc Chem Ind J (Chem & Ind) 44:79-80 Ja 23 '25
Relative rates of conversion of phenoxyphenyldichloroarsine and its chloro-derivatives into chlorophenoxarsines. E. Roberts and E. E. Turner. Chem Soc J 127:2004-12 S '25

CHLOROPROPYL-phenylketone
Gamma-chloropropyl-phenylketone. J. B. Conant, J. B. Segur and W. R. Kirner. Am Chem Soc J 46:1882-5 Ag '24

CHLOROQUINONEMONOXIMES
Nitrosation of phenols; 3-chloro-4-nitrosophenol and its conversion into two isomeric chloroquinonemonoximes. H. H: Hodgson and F. H. Moore. Chem Soc J 123:2499-2507 O '23

CHLOROSELENIC acid
Preparation and properties of selenium trioxide and chloroselenic acid. R: R. le G. Worsley and H. B. Baker. diag Chem Soc J 123:2870-5 N '23

CHLOROSULFOACETIC acid
Resolution of chlorosulphoacetic acid into its optically active components. H. J. Backer and W. G. Burgers. Chem Soc J 127:233-7 Ja '25

CHLOROSULFOXIDES
New halogen derivatives of camphor; the constitution of the Reychler series of camphor-sulphonic acids-experiments on chlorosulphoxides. H: Burgess and T: M. Lowry. Chem Soc J 127:279-83 Ja '25

CHLOROTOLUENE
Electrolytic oxidation of para-nitrotoluene and para-chlorotoluene to their respective acids. R. F. Dunbrook and A. Lowy. diag Am Electrochem Soc Trans v 45 (preprint 7):97-117 Ap '24
Some notes on nitro compounds with special reference to the nitration of meta-chloro-nitro-benzene and para-chloro-toluene. H. H. Hodgson. Soc Dyers & Col J 41:327-9 O '25

CHLOROVINYLARSINES
Beta-chlorovinyl-arsines and their derivatives. W. L. Lewis and H. W. Stiegler. Am Chem Soc J 47:2546-56 O '25
Some aromatic chlorovinylarsines. A. F: Hunt and E. E. Turner. Chem Soc J 127:996-9 My '25

CHLOROXYLENOLS
Chloro-o-xylenols; 5-chloro-o-3-xylenol, 6-chloro-o-3-xylenol, and 5-chloro-o-4-xylenol. L. E. Hinkel, W: T: Collins and E. E: Ayling. Chem Soc J 123:2968-73 N '23

CHOCOLATE
Cocoa and chocolate industries. A. W. Knapp. 147p Pitman '23
From cacao to cocoa and chocolate. il Chem & Met Eng 31:257-9 Ag 18 '24
Setting of cacao butter, with special reference to the development of bloom on chocolate. R. Whymper and A. Bradley. diag Soc Chem Ind J 44:77-86 F 27 '25

Manufacture
Handling chocolate at $.00063 a pound. Factory 35:232 Ag '25
Die schokoladen-fabrikation. P. Zipperer. 4th ed., rev. & enl. 338p M. Krayn, Berlin '24

CHOKE coils
Beitrag zur frequenztransformation mittels eisendrosseln. W. Dornig. diags Elektrotech Zeit 45:1107-8 O 16 '24
Current limiting reactors and choke coils. F. C. DeWeese. Power Pl Eng 29:145-6 Ja 15 '25
Der einfluss der gleichstrom-drosselspule auf den leistungsfaktor des wechselstromes beim quecksilberdampf-gleichrichter. W. Taeger. Elektrotech Zeit 45:774-5 Jl 17 '24
Experiences with the grounding choke coil. P. Vidonne. Elec W 82:1181-2 D 8 '23
How flashing of substation generator was stopped by a choke coil. diags Coal Age 25: 887-8 Je 12 '24
Das verhalten von wechselstromkreisen bei parallelschaltung von eisendrosselspule und kondensator. L. Fleischmann. Elektrotech Zeit 45:1307 N 27 '24

CHOLESTEROL
Molecular weight of cholesterol. J. R. Partington and S. K. Tweedy. Chem Soc J 127: 496-8 F '25
Rickets and cholesterol. Soc Chem Ind J (Chem & Ind) 44:520 My 22 '25

CHRISTIAN science churches
Domed roof construction; First church of Christ, scientist, University City, Mo. il diags plans Am Arch 126:635-40 D 31 '24
First church of Christ, scientist, Lakewood (Cleveland), Ohio; views and plans. Am Arch 126:649-53 D 31 '24
Plan and design of Christian science churches. W: E. Moran. plans Arch Forum 40:145-8 Ap '24
Third church of Christ, scientist, Park ave., New York; views and plans. Arch Forum 40:85, pl 17-21 F '24; Arch & Bldg 56:19-20, pl 57-9 Mr '24

CHRISTIANIA, Norway. See Oslo, Norway

CHRISTMAS
Christmas opportunities to cement customer relations. D. Argyle. Ptr Ink 129:25-6+ O 9 '24

CHRISTMAS business
Merry Christmas awaits a big retail outlet. Ptr Ink 128:33-4 Ag 14 '24
Sales arguments that help get Christmas trade. F. L. Scott. Ptr Ink 128:3-4+ Ag 7 '24
What about your Christmas selling plans? C. B. Larrabee. il Ptr Ink M 10:19-21+ My '25

CHRISTMAS gifts
See also Salesmen—Gifts to buyers

Advertising
Christmas campaign that made every day a shopping day. O. Winford. il System 44: 730-2+ D '23
End-of-the-year sales slump. Sales Management 7:1470+ S '24
What has Christmastide brought to another year of advertising? A. L. Townsend. Ptr Ink 125:103-4+ D 20 '23

CHRISTMAS printing
Greeting cards and folders. Ptg Art 44:48a-h S '24
Greeting cards for business men. L: W. Larson. il Inland Ptr 74:892-3 Mr '25
Some examples of Christmas greetings. Inland Ptr 74:56a-h O '24
Specimens. J. L. Frazier. il Inland Ptr 72:785-9 F '24

CHRISTMAS savings clubs
Next year's Christmas plan to start now. M. R. Lott. Factory 33:661+ N '24
That nuisance, the Christmas club. F. G. Heuchling. il Burroughs Clearing House 8: 15-16+ Ap '24

CHROMAMMINES
Researches on chromammines; hydroxopentamminochromic salts and electrical conductivities of chromammines. H. J. S. King. Chem Soc J 127:2100-9 S '25
Researches on chromammines; salts of nitro- and other dyes. H. J. S. King. Chem Soc J 125:1329-37 Je '24

CHROMAN
Studies in the chroman series. A. I. M. Kahil and M. Nierenstein. Am Chem Soc J 46: 2556-60 N '24

CHROMANONES
Beta-toloxy-propionic acids and the corresponding chromanones. S. G. Powell and N. G. Johnson. Am Chem Soc J 46:2861-3 D '24

CHROMATES
Investigations of the chromates of thorium and the rare earths; the chromates of lanthanum, praseodymium, neodymium, and samarium. H. T: S. Britton. Chem Soc J 125:1875-80 S '24

CHROME brick
Chrome refractories for the open hearth. R. E. Griffith. Am Cer Soc J 7:690-8 S '24

CHROME green
Proposed specifications for pure chrome green. Am Soc T M Pro 24 pt 1:487-8 '24
Proposed specifications for reduced chrome green. Am Soc T M Pro 24 pt 1:489-90 '24

CHROME iron. See Ferrochromium

CHROME liquors. See Tanning

CHROME yellow. See Lead chromate

CHROMIC acid
Action of chromic acid on indigo in the presence of oxalic acid. M. L. Eymer. Chemicals (Dyestuffs sec) 17:88-9 O 12 '25
Electrometric titration of chromic acid using the hydrogen electrode, and the oxygen electrode. H. T. S. Britton. Chem Soc J 125: 1572-82 Ag '24
Perfection of chromic acid method for determining organic carbon. J. W. White and F. J. Holben. diag Ind & Eng Chem 17:83-5 Ja '25
Reactions of chromic acid and its salts. J. M. Eder. Inland Ptr 75:594-6, 772-4; 76:91-3 Jl-Ag, O '25
Studies on hypophosphorous acid; its reaction with chromic acid. A. D. Mitchell. Chem Soc J 125:564-75 Mr '24
System chromium trioxide-boric acid-water. L. F. Gilbert. Chem Soc J 127:1541-2 Jl '25

CHROMITE
Chromite controlled by other nations. Iron Tr R 75:599 S 4 '24
Chromite mining during 1923. E: Sampson. Eng & Min J 117:92 Ja 19 '24
Chromite mining during 1924. E: Sampson. Eng & Min J 119:89 Ja 17 '25
Rhodesian and Indian chromite led in 1923 imports. Chem & Met Eng 30:93 Ja 21 '24
World trade in chromite. H. M. Hoar. U S Bur For & Dom Com Trade Information Bul 252:1-33 '24; Abstract. Iron Age 114:506 Ag 28 '24

CHROMIUM
Chrome reserves of the United States. Eng & Min J 116:864 N 17 '23
Chromium and its relation to industry. W. M. Mitchell. Iron Age 113:1011-12 Ap 3 '24
Chromium found to be satisfactory as coating for reflectors. Automotive Ind 53:449-50 S 17 '25
Chromium—its uses and its alloys. W. M. Mitchell. il Blast F & Steel Pl 12:372-5, 452-5, 504-7; 13:26-8, 95-6 Ag, O-N '24, Ja-F '25
Crystal structure of titanium and chromium. R. A. Patterson. Phys R 26:56-9 Jl '25
Electro-plating with chromium. Metal Ind 21:488 D '23
Importance of chromium to the chemical engineer. C. B. Bellis. Chem & Met Eng 30: 149-51 Ja 28 '24
Séparation du nickel et du fer d'avec le chrome par électrolyse. E. Rousseau. Chimie & Ind 13:199-201 F '25
Verchromung; abstracts. Elektrotech Zeit 45: 341 Ap 10 '24; Elec W 83:1143 My 31 '24

Analysis

Determination of chromium and vanadium in steel. L. Lindemann. Ind & Eng Chem 16: 1271-2 D '24

CHROMIUM alloys
Alloys in the ternary system iron-chromium-carbon. C: R. Austin. diags Iron & Steel Inst J 108:235-62, pl 14-18 no 2 '23
Chromium—its uses and its alloys. W. M. Mitchell. il Blast F & Steel Pl 12:504-7; 13: 26-8, 95-6 N '24, Ja-F '25
Properties and structure of some alloys of aluminium-chromium. F. T. Sisco and M. R. Whitmore. il Ind & Eng Chem 17:956-8 S '25
Some engineering applications of high-chromium-iron alloys. C. E. MacQuigg. il Am Soc T M Pro 24 pt 2:373-82 '24; Abstracts. Mech Eng 46:486 Ag '24; Engineer 139:sup 69 My 29 '25
Ueber das dreistoff-schaubild der eisen-chrom-kohlenstoff-legierungen. K. Fischbeck. diags Stahl & Eisen 44:715-19 Je 19 '24
See also Chromium steel; Stellite

CHROMIUM chlorides
Effect of sodium chloride on hydrogen-ion concentration and stability towards alkali of chromic chlorides. K. H. Gustavson. Ind & Eng Chem 17:945-52 S '25

CHROMIUM compounds
Application of chromium compounds in dyeing. W. C. Durfee. Am Dyestuff Rep 13: 226-30 Ap 7 '24
Chrome pigments; some applications and properties. W. J. Palmer. Chem Age (Lond) 12:274 Mr 21 '25
Chromium compounds of azo dyes. Color Tr J 16:6-7 Ja '25
Dyeing of textile fabrics with chrome dyestuffs. I. Ginsberg. Am Dyestuff Rep 13: 284-6 My 5 '24
Iron and chromium on cotton or wool. W. B. Nelson. Am Dyestuff Rep 14:164-8 Mr 9 '25
Manufacture of chromed dyestuffs. F. Straub. Color Tr J 14:187 Je '24
Mordanting wool with some chromium compounds. E. J. Cross. Soc Dyers & Col J 40: 357-9 N '24
Researches on residual affinity and coordination; chromic and cobaltic lakes of mordant azo-dyes. G. T. Morgan and J. D. Main Smith. Chem Soc J 125:1731-9 S '24

CHROMIUM nickel steel
Chromium-nickel rustless steel. W. H. Hatfield. il Engineer 140:sup151-4 O 30 '25
Der einfluss der desoxydation auf die warmverarbeitbarkeit und die eigenschaften eines chromnickel-baustahles. W. Oertel and L. A. Richter. il Stahl & Eisen 44: 169-75 F 14 '24; Discussion. M. Wehle. 44: 1332-3 O 23 '24
Non-rusting chromium-nickel steels. B. Strauss. Am Soc T M Pro 24 pt 2:208-16 '24

Testing

Endurance range of steel. D. J. McAdam, jr. Am Soc T M Pro 24 pt 2:574-600 [bibliog. p. 599-600]; Discussion. 601-17 '24

CHROMIUM plating
Chrome surfaces electrolytically deposited. C. G. Fink. Blast F & Steel Pl 13:234-5 Je '25
Chromium plating developments. Metal Ind 23:250-1 Je '25; Eng & Min J 120:624 O 17 '25
Chromium plating steel using chromium anodes. K. W. Schwartz. Am Electrochem Soc Trans v 44 (preprint 2):13-25 S '23; Same. Brass W 20:85-8 Mr '24; Same abr. Metal Ind 21:441-3 N '23; Excerpts. Chem & Met Eng 30:627-8 Ap 21 '24; Discussion. Metal Ind 22:65 F '24
Crodon—new process for plating with chromium. Iron Age 115:1644 Je 4 '25
Plating of chromium on steel. G: M. Enos. Am Electrochem Soc Trans v 48 (preprint 1):1-8 S '25; Same. Brass W 21:277-8 Ag '25; Same. Engineer 140:188 Ag 21 '25; Same cond. Iron Tr R 77:896-7 O 8 '25
Principles and operating conditions of chromium plating; application of electrodeposited metal to face of printing plates. H. E. Haring. Chem & Met Eng 32:692-4 Ag '25
Resistance to corrosion of electro-deposited chromium; abstracts. E. A. Ollard. Engineer 140:236-7 S 4 '25; Elec R (Lond) 97:393 S 4 '25; Chem Age (Lond) 13:245 S 5 '25; Engineering 120:408-9 O 2 '25
Some views on chromium plating. J. Silberstein. Brass W 20:217 Je '24

CHROMIUM poisoning
Chromium; present practice in the prevention of industrial poisoning. Nat Safety N 12:63 O '25

CHROMIUM steel
Chromium and its relation to industry. W. M. Mitchell. Iron Age 113:1011-12 Ap 3 '24
Chromium—its uses and its alloys. W. M. Mitchell. il Blast F & Steel Pl 12:452-5, 504-7; 13:26-8 O-N '24, Ja '25

CHROMIUM steel—*Continued*

Ferrous alloys resistant to corrosion. B. D. Saklatwalla. il Iron Age 113:1209-13 Ap 24 '24; Same cond. Chem & Met Eng 30:672-3 Ap 28 '24

Flakes or hair-cracks in chromium steel, with a discussion on shattered zones and transverse fissures in rails. A. Hultgren. diags Iron & Steel Inst J 111:113-48 [bibliog. p. 147-8], pl 14-17c no 1 '25; Same cond. Engineering 119:649-51 My 22 '25; Discussion. Iron & Steel Inst J 111:149-67 no 1 '25; Iron Age 115:1490-2 My 21 '25

Heat treating—its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. Iron Tr R 75:487-9 Ag 21 '24

Nachprüfung der löslichkeitslinie für kohlenstoff in chrom- und wolframstählen. Stahl & Eisen 45:583-7, pl 22 Ap 16 '25

Nachprüfung der löslichkeitslinie für kohlenstoff in chrom- und wolframstählen. P. Oberhoffer, K. Daeves and F. Rapatz. il Stahl & Eisen 44:432-5 Ap 17 '24

Refining metals electrically; how chrome steel is made. L. J. Barton. il Foundry 53:233-6, 272-4 Mr 15-Ap 1 '25

Stainless chromium steels. W. H. Hatfield. Am Electrochem Soc Trans v 46 (preprint 5):63-73 O '24

Ueber chromstahl für dauermagnete. P. Oberhoffer and O. Emicke. Stahl & Eisen 45:537-40 Ap 9 '25

Über magnetstahl. G. Hannack. Zeit Ver Deutsch Ing 69:764-5 My 30 '25

Ueber magnetstahl unter besonderer berücksichtigung der beziehungen zwischen kohlenstoff und den magnetischen eigenschaften. G: Hannack. Stahl & Eisen 44:1237-43 O 9 '24

Das vanadin in baustählen. R. Hohage and A. Grützner. Stahl & Eisen 44:1713-17 D 18 '24

Die verschiebung des perlitpunktes durch nickel und chrom. N. H. Aall. il Stahl & Eisen 44:256-9 Mr 6 '24; Discussion. 45:544-6 Ap 9 '25

Verschleissversuche mit kugellager-chromstahl. H. Redenz. il Stahl & Eisen 44:1703-8 D 18 '24

See also Chromium-nickel steel; Steel, Stainless

CHROMO paper

Special moistening of chromo paper. E. Arnould. Paper Tr J 78:79-80 Ap 3 '24

CHROMOGRAPH

Chromograph. H. Logan. il Illum Eng Soc 20:381-7; Discussion. 387-91 Ap '25

CHROMONES

Accessible derivative of chromonol. J. Allan. and R. Robinson. Chem Soc J 125:2192-5 O '24

CHROMOSOMES

Cytology of the cotton plant; chromosome numbers of old and new world cottons. H. J: Denham. bibliog il Textile Inst J 15:T496-500 O '24

CHRONOGRAPH

Tabbing the speeding bullet. E: C. Crossman. il Sci Am 131:152-3 S '24

CHRYSLER, Walter P.

"Watch the terminals; not the way stations" —Chrysler. O. D. Foster. il Forbes 15:539-41+ F 1 '25

CHRYSLER motor corporation

Chrysler announces new financing plan. Automotive Ind 52:1157 Je 25 '25

Chrysler plan. Spectator 115:13, 15 Jl 30; 3+, 15+ Ag 6; 13 Ag 13; 4 Ag 20 '25

New York and other state insurance commissioners enjoined from revoking license of Palmetto fire insurance co. underwriting automobile theft and fire insurance. Comm & Fin Chr 121:793-4 Ag 15 '25

CHUCKING machines

Bullard four-spindle mult-au-matic. il Iron Age 115:199 Ja 15 '25

Bullard vert-au-matic. il Am Mach 62:635-6 Ap 16 '25; Automotive Ind 52:708-9 Ap 16 '25; Iron Age 115:1195 Ap 23 '25; Mach 31:740 My '25

Cincinnati engineering tool co. vertical automatic chucking machine. il Iron Age 115:1264 Ap 30 '25; Am Mach 62:714-15 Ap 30 '25; Mach 31:735 My '25

Gridley 4½-in. multiple-spindle chucking machine. il Am Mach 60:867-8 Je 5 '24; Iron Age 113:1644-5 Je 5 '24; Mach 30:897-8 Jl '24; Ry Mech Eng 98:563-4 S '24

Multiple-spindle automatics; the Goss and De Leeuw multi-spindle automatic machine. J. Horner. il Engineering 120:405-7 O 2 '25

New Britain automatic chucking machine no. 12A. il Am Mach 63:207-9 Jl 30 '25; Automotive Ind 53:185-6 Jl 30 '25; Iron Age 116:349-50 Ag 6 '25; Mach 31:999-1001 Ag '25

New Britain multiple-spindle automatics. J. Horner. il diags Engineering 120:187-90 Ag 14 '25

New Britain new-matic chucking machine. il Iron Age 113:1574-5 My 29 '24; Am Mach 60:861-3 Je 5 '24; Mach 30:803-5 Je '24; Automotive Ind 50:1230-2 Je 5 '24

Plain-head turret lathe as a chucking machine; abstract. E. W. Field. plan Mech Eng 46:217-18 Ap '24

Potter & Johnston chucking and turning machine. Mach 30:313 D '23

Potter & Johnston unimatic chucking and turning machine. il Am Mach 62:717-18 Ap 30 '25; Mach 31:736 My '25

Typical turret tooling; use of standard tools and set-ups on semi-automatic chucking machines. F. H. Colvin. il diags Am Mach 63:573-5 O 8 '25

Vertical automatic machine at the machine tool exhibition. il diags Engineering 118:399-400, pl 43 S 19 '24; Mech Eng 46:900 D '24

CHUCKS

Automatic buffing methods. diags Mach 31:761-4, 871-3 Je-Jl '25

Bullard power-operated chuck. il diag Am Mach 62:866-7 My 28 '25; Iron Age 115:1480 My 21 '25; Automotive Ind 52:1056 Je 18 '25; Mach 31:830 Je '25; Ry Mech Eng 99:379 Je '25

Cheap bell-chuck. W. Mason. diag Am Mach 63:280 Ag 13 '25

Chuck for guides, shoes and wedges and cross-head gibs. diags Ry Mech Eng 98:304 My '24

Chuck for machining trolley wheels. diags Elec Ry J 64:1006-7 D 13 '24

Chuck for making eccentric bushings. A. Silvester. il Am Mach 60:858 Je 5 '24

Compensating chuck jaws. C: Homewood. diag Am Mach 61:744 N 6 '24; Discussion. 62:474-5, 629; 63:160-1, 546 Mr 19, Ap 16, Jl 23, O 1 '25

Double-acting air chuck for ring gears. A. J. Quinlan. diags Am Mach 62:327 F 19 '25

Drawback chuck operated by a push rod. diags Am Mach 58:772; 60:118-19, 632 My 24 '23, Ja 17, Ap 24 '24

Friction chuck for driving screw-eyes. R. H. Kasper. diags Mach 31:898 Jl '25

Interesting chucking methods; useful tool equipment for capstan lathes. il Automobile Eng 15:262 Ag '25

Offset chuck for precision work. C: Forst. diag Am Mach 62:1011 Je 25 '25

Quick-acting universal chuck. R. A. Maxwell. diags Am Mach 62:439 Mr 12 '25

Quick-change drill chuck; the Neudeck. il Iron Age 114:439 Ag 21 '24

Self-centering chuck facilitates bearing machining. W. L. Briar. il Elec Ry J 64:1084-5 D 27 '24

Self-centering chuck for armature bearings. T. E. Wood. il diag Elec Ry J 65:470 Mr 21 '25

Shoe and wedge line chuck. il diag Ry Mech Eng 98:105 F '24

Strength of a chuck. il Engineer 139:662 Je 12 '25

Supplementary jaws for a pneumatic chuck. R. Grant. diags Am Mach 61:821-2 N 20 '24

Swivel chuck for rod brasses. diag Ry Mech Eng 98:299 My '24

Utility of split chucks. S. W. Brown. diag Am Mach 62:401-2 Mr 5 '25

CHUCKS, Magnetic
Grinding fixtures for magnetic chucks. S. W. Brown. diags Mach 31:875 Jl '25
Magnetic chuck aids output. F. B. Jacobs. il Iron Tr R 76:289-91 Ja 22 '25
Taft-Peirce bipolar magnetic chuck. il Am Mach 61:518 S 25 '24

CHURCH advertising
Imagination in church advertising. W: N. Bayless. Ptr Ink 131:44 My 14 '25
Prerequisites of church advertising. Ptr Ink 128:129 Jl 24 '24
Reason for dignified church advertising. D. H. McGregor. Ptr Ink 132:121-2+ Ag 13 '25

CHURCH architecture
All Saints church, Peterborough, New Hampshire. H. D. Eberlein. il plans Arch Rec 58:278-88 S '25
Amanda Anderson McCarthy memorial chapel, Carthay Center, Los Angeles, Cal.; views. Am Arch 126:pl 116-18 O 8 '24
Ancient London churches. T. F. Bumpus. Rev. ed. 415p T. W. Laurie, ltd., London; Stokes, N.Y. '23
Architecture of liturgical churches. R. A. Cram. plans il Arch Forum 40:133-40 Ap '24
Architecture requirements of the Episcopal church. H. Birckhead. il Arch Forum 40: 165-6 Ap '24
Breton churches. A. Embury, jr. il Arch Rec 58:65-85, 128-32 Jl-Ag '25
Building the stone church. J: Y. Dunlop. il plans Bldg Age 46:112-13 N; 88-9 D '24
Church building. R. A. Cram. 3d ed. 345p Marshall Jones co., Boston '24
Church of Notre Dame Du Raincy. il Am Arch 126:249-52 S 10 '24
Concerning church architecture. E. D. Robb. il Arch Rec 56:489-507; 57:17-28 D '24-Ja '25
Development of Charleston architecture. S: Lapham, jr. and A. Simons. il plan Arch Forum 40:33-40 Ja '24
Early American architecture, series II. il Am Arch 128:249-50 S 9 '25
Ely, Durham and St Bartholomew's after the photographs by Frederick H. Evans. Am Inst Arch J 12:501-12 D '24
English parish church and its details; with measured drawings and photographs. R. M. Blackall. il plans Arch Rec 56:566-74; 57:77-86, 161-72, 276-82, 305-12, 463-73, 565-9; 58: 19-25, 116-27, 223-32, 314-19 D '24-O '25
Evolution of the modern church interior. il diag Am Arch 125:435-40 My 7 '24
First Presbyterian church, Brazil, Ind. il Am Arch 127:481-2 My 20 '25
Flatbush Presbyterian church. il diags plans Arch Forum 42:221-4, pl 51-2 Ap '25
French and Spanish country churches. S: Chamberlain. il Am Arch 125:467-72 My 21 '24
French expression of modern architecture; the Church of Nôtre Dame, at Le Raincy, Seine-et-Oise. W: D. Foster. il diags plan Arch Rec 56:97-105 Ag '24
Grandes églises voûtées en béton armé. V. Sabouret. Génie Civil 84:18 Ja 5 '24
Group of early northern Ohio churches. I. T. Frary. il Am Arch 126:49-50 Jl 16 '24
Inspired by the Spanish padres; St John's Episcopal church of Chula Vista, California. il plan Bldg Age 47:80-1 Ag '25
Institutional churches. J. Hudnut. il plans Arch Forum 40:141-4 Ap '24
Interior of an early Christian church; student work, Beaux-arts institute of design. il Am Arch 125:297-300 Mr 26 '24
Little churches in Greece. G. G. King. il Am Inst Arch J 12:13-18, 23-4 Ja '24
Origin of Christian church art. C: H. Moore. il Arch Rec 56:375-9 O '24
Paris letter. G. F. Sebille. il Am Inst Arch J 13:162-6 My '25
Park Avenue Baptist church, New York city. Arch & Bldg 57:43-4, pl 111-13 My '25
Planning non-ritualistic church buildings. F. G. Dillard. il plans Am Arch 127:105-12, 159-66 F 11-25 '25
Pre-Romanesque churches of Spain. G. G. King. 248p Longmans '24
Revolution in ecclesiastical architecture. T: E. Tallmadge. il plans Arch Rec 55:416-36 My '24
Ritualism in architecture. A. Granger. Am Arch 126:605-7 D 31 '24
Sacred Heart church, Jersey City, N.J. Arch & Bldg 57:12-13, pl 30-3 F '25
St James church, Lake Delaware, N.Y. J: T. Boyd, jr. il plan Arch Forum 42:1-4, pl 7-8 Ja '25
Saint James Episcopal church, New York city. il Arch & Bldg 57:21-2, pl 47-8 Mr '25
Seventeen traditional abominations. Am Arch 126:608 D 31 '24; Same. Am Inst Arch J 13: 145 Ap '25
Six tons of copper on church buildings. il Sheet Metal Worker 14:985-6 Ja 18 '24
Small church. E. C. Lowe and F. G. Dillard. il Arch Forum 40:149-52 Ap '24
Some notes on Palladio, his times, and his church of the Redentore. J. Chillman, jr. il Am Inst Arch J 11:467-72 D '23
Spanish Gothic. R. A. Cram. il Am Arch 125:187-94 F 27 '24
Two early Ohio churches. I. T. Frary. il Arch Rec 56:286-8 S '24
Two extremes of church design. il Bldg Age 45:66 D '23
What church architecture means to the minister. L: C. Cornish. Arch Forum 40: 164 Ap '24
Work of John T. Comes. C: D. Maginnis. il Arch Rec 55:93-101 Ja '24

See also Acoustics, Architectural; Bahai temple, Chicago; Cathedrals; Chapels; Christian science churches; Liverpool cathedral; Mission buildings (Spanish); Mortuary chapels; Mosaic; Mosques; Orientation (architecture); Parish houses; St John the Divine, Cathedral of; St Paul's cathedral, London; St Peter's cathedral, Rome; Spires; Sunday school rooms and buildings; Synagogs

Designs and plans
Building a seven-day-a-week church. E. M. Conover. plans Am Arch 126:179-80 Ag 27 '24
Church at Marblehead, Mass. il plan Am Arch 128:417 N 5 '25
Church at Nara. E. Bonta. il plans Am Inst Arch J 11:457-62 D '23
Church design for the rural district. il plan Bldg Age 46:57 O '24
Church of basalt. E. F. Ayres. il plans Bldg Age 47:98 Ja '25
Church of the Holy Redeemer, Detroit, Mich. Am Arch 125:442a-f My 7 '24
Church reference number of Architectural forum. Arch Forum 40:133-88 Ap '24
Economy with dignity. il plans Bldg Age 47: 115 Ap '25
Ferndale (Michigan) Evangelical church; views and plans. Am Arch 126:115-16 Jl 30 '24
Layton Park Lutheran church, Milwaukee, Wisconsin; views and plans. Arch Rec 56: 349-51 O '24
Plan and design of Christian science churches. W: S. Moran. plans Arch Forum 40:145-8 Ap '24
St Michael's P.E. (Italian) church, Fairfield, Conn. and St Joseph church, Port Huron, Mich.; views and plans. Am Arch 126:643-8 D 31 '24
St Paul's church, Newburyport, Mass. Arch Forum 41:87, pl 29-30 Ag '24
Third church of Christ, scientist, Park ave., New York; views and plans. Arch Forum 40:85, pl 17-21 F '24; Arch & Bldg 56:19-20, pl 57-9 Mr '24
Third Presbyterian church, North, Newark, N. J.; views and plans. Am Arch 128:153-7 Ag 12 '25
University Baptist church, Minneapolis, Minn.; views and plans. Am Arch 126:pl 8-10 Jl 2 '24
West Side Presbyterian church, Ridgewood, N.J. Arch & Bldg 57:1, pl 1-4 Ja '25

Specifications
Specifications for spiral chutes. Am Arch 127:sup14+ F 25 '25

CHURCH building
Architect and the church building committee. G: E. Merrill. Arch Forum 40:161-3 Ap '24

CHURCH decoration
Design of church accessories. il diags Am Arch 126:627-32 D 31 '24
Modern Fresco decoration. il Am Arch 128: 361-4 O 20 '25
Revival of craftsmanship; All Saints' Episcopal church, Los Angeles. il Am Arch 128: 271-4 S 23 '25
Wood carving in ecclesiastical architecture. il Am Arch 126:619-22 D 31 '24

See also Altars; Church furniture; Reredos; Screens (church decoration)

CHURCH furniture
Church furnishings. E. D. Robb. il Arch Forum 40:179-87 Ap '24
Design of church accessories. il diags Am Arch 126:627-32 D 31 '24
English church fittings, furniture and accessories. J. C: Cox. 320p Putnam '23

See also Altars; Reredos

CHURCH houses. See Parish houses

CHURCH lighting
Artificial lighting in churches. K. Curtis. il Am Arch 126:609-14 D 31 '24
Lighting of Liverpool Cathedral. H. Norris. il plan Elec R (Lond) 95:347-8 S 5 '24
Lighting of Llandaff cathedral. il Elec R (Lond) 96:318-19, 397 F 20, Mr 6 '25

CHURCHES

See also Church architecture

Heating and ventilation

Gas heating system increases church attendance L. R. White. il Gas Age 53:493-4 Ap 12 '24
Heating a Chicago church by gasteam. G. C. Carnahan. il Gas Age 53:477-8 Ap 12 '24

CHUTE gates
Chute gate construction. diags Eng & Min J 120:257 Ag 15 '25
Design of finger-bar chute gate. S. S. Siegfus. diags Eng & Min J 120:698 O 31 '25

CIERVA autogiro. See Flying machines

CIGAR makers
Cigar makers, Tampa, Fla., labor agreement. Monthly Labor R 21:102-4 Jl '25

CIGARETTES
First sixty billions are the hardest for cigarette industry. C. A. Wessel. Ptr Ink 126: 3-4+ Ja 31 '24
Production of cigarettes in the United States in 1924. Econ W n s 29:376 Mr 14 '25
Rapid increase of cigarette consumption in the United States. Econ W n s 28:515 O 11 '24

Advertising

Lucky Strike advertises new sampling idea. Ptr Ink 125:99-100 N 8 '23

CIGARS

Advertising

Flock of popular writers take to advertising copy; a humorous testimonial idea attracts attention to Muriel cigars. A. Bradbury. il Ptr Ink 131:61-2 Ap 2 '25

How three highly individual campaigns were brought together in a single advertisement. Ptr Ink 126:41-2 Ja 10 '24

No apologies needed for the negative appeal. Ptr Ink 132:53-4+ Jl 2 '25

Now they all pull; the mail-order methods and collection policy of El Vandoma. R. M. Rose. System 46:287-8+ S '24

Territorial advertiser goes after a broader market; Bayuk cigars, inc. Ptr Ink 131:125-6 Ap 30 '25

Where mail order proved the only way to sell; nicotineless cigar. A. Belden. Ptr Ink 126:116+ Jl 10 '24

Manufacture

Machinery for making cigars and cigarettes. il Dun's Int R 45:62-3 Ag '25

CIGARS, Denicotined
Customers decided on this manufacturer's retail outlets; Lincoln & Ulmer denicotined cigars. H. E. Pettingill. Ptr Ink 132:17-19 Jl 16 '25
Where mail order proved the only way to sell; nicotineless cigar. A. Belden. Ptr Ink 128:116+ Jl 10 '24

CINCHONA
Cinchona output in Java averages more than 700,000 kilos a month. Oil Paint & Drug Rep 106:19 O 20 '24

CINCHOPHEN
Researches on quinazolines; a quinazoline analog of cinchophen (atophan); the synthesis of new quinazoline carboxylic acids from isatin and from ortho-amino-acetophenone. M. T. Bogert and F. P. Nabenhauer. Am Chem Soc J 46:1702-7 Jl '24

CINCINNATI
Tactics that won in Cincinnati. il Sales Management 6:851-2+ Ap '24

Architecture

Business men's club, Cincinnati, Ohio; views and plans. Am Arch 127:pl 21-4 Ja 28 '25
Dixie terminal building, Cincinnati; views and plans. Am Arch 125:60 l-p, 61-2 Ja 16 '24

Rapid transit

Cincinnati adopts new franchise of the service-at-cost type. Elec Ry J 66:811-15 N 7 '25
Cincinnati paying for mistakes. Elec Ry J 63:823 My 24 '24
Cincinnati plan sanctioned. Elec Ry J 66: 449-50 S 19 '25
Cincinnati traction and street railway companies will report on settlement. Elec Ry J 63:78 Ja 12 '24
Cincinnati traction has no responsibility in franchise issues. Elec Ry J 65:118 Ja 17 '25
Compromise in Cincinnati. Elec Ry J 64:817 N 8 '24
Loop favored. Elec Ry J 63:389 Mr 8 '24
Merger proposed. Comm & Fin Chr 121:838 Ag 15 '25
New contract proposed in Cincinnati. Elec Ry J 62:1062-3 D 22 '23
Nine cents cash in Cincinnati. Elec Ry J 65: 945 Je 13 '25
Transportation puzzle solved; new franchise adopted. Elec Ry J 63:344-5 Mr 1 '24

CINCINNATI stock exchange
Record of prices on Cincinnati stock exchange. Comm & Fin Chr 120:1020-1 F 28 '25

CINCINNATI university
New co-operative courses in architecture and the applied fine arts at the University of Cincinnati. H. Schneider. Am Arch 125:65-7 Ja 16 '24

CINDER concrete blocks. See Concrete blocks

CINDER concrete corporation
Straub and Bo cinder products interests combine. Concrete 27:43 Ag '25

CINDER concrete slabs. See Concrete slabs

CINDERS
Cinder handling cost halved. il Ry Age 77: 362 Ag 30 '24; Same. Ry Mech Eng 98:637-8 O '24; Same cond. Ry R 75:294-5 Ag 23 '24
Combined cinder and coal hoist, Millville, N.J. il diags Ry Age 76:297-8 Ja 26 '24
Combined coaling and cinder plant, Pennsylvania lines. il diags plan Ry R 73:912-13 D 22 '23; Same. Eng & Contr (Ry) 61:391-2 F 20 '24
Handling and disposing of cinders; report. Ry R 75:481-3 S 27 '24; Same cond. Ry Age 77: 498-9 S 20 '24

CINÉ-KODAK
How Eastman prepared the way for homemade movie advertising. A. E. Haase. Ptr Ink 126:33-4+ Mr 13 '24

CINEMATOGRAPH. See Moving picture photography

CINEOL
Determination of cineol in essential oils. G. Walker. Soc Chem Ind J 42:497-8 D 21 '23

CINNAMALDOXIMES
Isomerism of the oximes; substituted cinnamaldoximes. O. L. Brady and H. J. Grayson. Chem Soc J 125:1418-21 Jl '24

CINNAMYL alcohol
Utilization of cassia oil for the synthesis of cinnamyl alcohol. A. J. Hill and E. H. Nason. Am Chem Soc J 46:2236-46 O '24

CIPHER and telegraph codes
Certain factors affecting telegraph speed. H. Nyquist. Am Inst E E J 43:124-30 F '24
Oil and gas code, for telegrams and cables. 604p Business code co., 2 Rector St., New York '23
Pattern number code, designed to cheapen the cost of ordering by telegraph, goods that are identified by pattern numbers. 93p American code co., New York '24

CIPHERING machines
Secrecy in radio; the automatic ciphering and deciphering machine. A. Gradenwitz. il Radio N 5:878+ Ja '24

CIRCLE
Determining the radius of a segment. J. A. Porath. diags Mach 32:139 O '25

CIRCUIT breakers. See Electric circuit breakers

CIRCULAR advertising. See Advertising, Mail

CIRCULATORY currents
Effect of brush drop on circulating currents in converters. J: W. Jones. diags Elec W 84:272-3 Ag 9 '24

CIRCUS
Clowns and cash, tinsel and turnover. E. C. May. Nation's Business 12:40+ O '24

CITIES and towns
Influence of transportation on the growth of cities; public ownership and private management of the transport facilities as well as possible public ownership of suburban areas suitable for wholesale housing plans. G. Delavenne. Elec Ry J 64:171-2 Ag 2 '24
Is the big city doomed as an industrial center? J: A. Piquet. il Ind Management 68: 139-44 S '24
Modern city and the engineer's relation to it. R. Ridgway. Am Soc C E Pro 51:957-68 Ag '25
More plans for more chaos. Am Inst Arch J 12:132-3 Mr '24

See also City and country; City planning; Garden cities; Municipal government and other headings beginning Municipal

United States

Growth of urban population in the United States. R. Tough. J Land & Pub Util Econ 1:226-36 Ap '25
Industry's partner—the community. J: A. Piquet. il Ind Management 70:183-7 S '25
Movement of population from the farms to the cities in the United States. H: C. Taylor. Econ W n s 30:220-2 Ag 15 '25
Population estimates of fast-growing cities. Ptr Ink 132:148-9 Ag 27 '25

CITIES service company
Annual report, 14th, 1923. Comm & Fin Chr 118:2071-3 Ap 26 '24
Annual report, 15th, for year ended Dec. 31, 1924. Comm & Fin Chr 120:2164-6 Ap 25 '25; Excerpts. Nat Pet N 17:92+ Jl 1 '25

CITIZENS' military training camps. See Camps, Military

CITIZENSHIP
Responsibilities of citizenship. J. C. Cropsey. Comm & Fin Chr 119:100-3 sec 2 O 18 '24; Same cond. Am Bankers Assn J 17:222-3 O '24

CITRACONIC acid
Derivatives of citraconic acid; the synthesis of methyltartaric acid and the decomposition of dihydroxymaleic acid. W. F. Goebel. Am Chem Soc J 47:1990-8 Jl '25

CITRAL
Condensation of citral with ketones and synthesis of some new ionones. H. Hibbert and L. T. Cannon. Am Chem Soc J 46:119-30 Ja '24

CITRATE
Qualitative test to show the absence of citrate or tartrate in mixtures. J. B. Peterson. Ind & Eng Chem 17:1146 N '25

CITRIC acid
Chemical and material markets in 1923. Chem & Met Eng 30:115 Ja 21 '24
Methylene-citric anhydride; the aniline derivatives of citric and aconitic acids. C. A. Nau, E. B. Brown and J. R. Bailey. Am Chem Soc J 47:2596-2606 O '25
Non-volatile acids of the strawberry, the pineapple, the raspberry and the Concord grape. E. K. Nelson. Am Chem Soc J 47: 1177-9 Ap '25
Non-volatile organic acids of alfalfa. W: A. Turner and A. M. Hartman. Am Chem Soc J 47:2044-7 Jl '25

See also Lime juice

CITRONELLA
Dosage du citronellal dans l'essence de citronelle. J. Dupont and L: Labaune. Chimie & Ind 12:250-2 Ag '24

CITRUS fruit
Citrus fruit in the United States. Comm M 6:27-30 Je '24
Citrus fruit industry of Florida. G: M. Chapin. il Manuf Rec 86:223-6 pt 2 D 11 '24
Disinfecting and washing citrus fruit. H. E. Shiver. Chem & Met Eng 32:812 O '25
Florida's orange crop. G: M. Chapin. Manuf Rec 88:93-4 Ag 6 '25
Gassing citrus trees in Florida. W. L. Tanner. il Chem & Met Eng 30:942-3 Je 16 '24
Growth of the citrus industry and co-operative marketing of the fruit in Texas. A. E. Burges. Manuf Rec 88:84 O 15 '25
Outlook for Southern citrus industry. C. A. Whittle. Manuf Rec 86:91-2 N 6 '24
Use of ethylene in the coloring of citrus fruit. E. M. Chace and F. E. Denny. Ind & Eng Chem 16:339-40 Ap '24
Who said it cannot be sold in packages? oranges and grape fruit to be distributed in sealed cartons. Ptr Ink 129:115-16 N 13 '24

See also Lemons; Oranges; *also* California fruit growers' exchange

CITY and country
Decentralization and surburbanization of population. I. Fisher. Ann Am Acad 118:96 Mr '25
Henry Ford says—farmer-workmen will build automobile of the future. D. Pearson. il Automotive Ind 51:389-92 Ag 28 '24

CITY halls. See Municipal buildings

CITY managers
City manager in a new city. C. A. Bingham. Eng & Contr (W W) 62:350-2 Ag 13 '24
City managers' code of ethics. Pub Works 56:32 Ja '25
City managers meet in Montreal, Sept. 23-25. Can Eng 47:397-8 O 7 '24
Organization of city managers. E. C. Elliott. Can Eng 47:380 S 30 '24

See also Municipal government—City manager plan

Salaries

Trend of city managers' salaries. R. S. Wallis. Prof Eng 10:6-7 Jl '25

CITY planning
Advantages of town planning and zoning. F. E. Buck. Can Eng 47:197-9 Jl 29 '24
Ancient builders of cities. N. Hammarstrand. Am Inst Arch J 11:484-6 D '23
Architect's place in city planning. R. Unwin. Am Inst Arch J 13:195-8 Je '25
Art of town planning. H: V. Lanchester. 243p Chapman and Hall, ltd., London '25
Arterial highways and hexagonal planning. N. Cauchon. diags Can Eng 49:170-2 Jl 28 '25
Automobile and city planning. A. Macauley. Pub Works 54:388-9 D '23
Automobile and community planning. J: Ihlder. Ann Am Acad 116:199-205 N '24
Better distribution of people and industries. J: Nolen. Munic & Co Eng 68:245-6 My '25
Builder's interest in city planning. Eng & Contr (Bldgs) 61:655-6 Mr 26 '24

CITY planning—*Continued*

Business value of city and regional planning. B. Gherardi. Munic & Co Eng 68:322-5 Je '25

Carrying out Mariemont plan for a self-contained town. G. Hall. plan Eng N 92:580-2 Ap 3 '24

Changing the horse-and-buggy road to fit the automobile. S. D. Waldon. il charts diags maps plans Soc Auto Eng J 15:521-31 D '24

City plan and industry. W: Holden. Prof Eng 10:16-18 Ja '25

City plan for Springfield, Mass., by the Planning board, 1923. 212p Springfield printing and binding co., Springfield, Mass. '24

City planning and the automobile. A. Macauley. Munic & Co Eng 68:217-20 My '25; Excerpts. Pub Works 55:285-6 S '24

City planning as a permanent solution of the traffic problem. A. S. Tuttle. Munic & Co Eng 68:246-51 My '25

City planning as an aid to public safety. H. Bartholomew. il maps Nat Safety N 10:45+ O '24

City planning in Holland. C: W. Eliot. il plans Arch Rec 56:276-82 S '24

City planning to serve mass transportation. map Bus Transportation 4:373-6 Ag '25

City planning; with tabulation. Pub Works 55:181-2, 204-6 Je '24

Commercial town planning urge. H. L. Seymour. Can Eng 46:197-8 Ja 29 '24

Comprehensive city plan; Memphis, Tennessee. H. Bartholomew. 176p City plan commission, Memphis '24

Continuous city planning. J. L. Crane, jr. Munic & Co Eng 67:178-80 O '24; Same. Can Eng 47:550 N 25 '24

Controlling the subdivision of land into building lots. R. Whitten. Munic & Co Eng 68: 319-22 Je '25

Excess condemnation in city planning. F. B. Williams and others. Am Soc C E Pro 51: 1416-52 S '25; Discussion. 51:1861-72 N '25

First-prize plan for new subdivision in country club district, Kansas City, Mo. plans Arch Rec 57:570-3 Je '25

Higher building in relation to town planning. R. Unwin. diags plans Am Inst Arch J 12:124-31 Mr '24

Hinsdale community development. il plans Am Arch 125:234-6 Mr 12 '24

How a committee of citizens can secure support for city planning program. J: Nolen. Munic & Co Eng 66:238-43 My '24

Immediate city planning work is needed to avoid future traffic troubles. J. R. Bibbins. Automotive Ind 50:912-13 Ap 24 '24

International planning conference. Arch & Bldg 57:17-18 F '25

Investment mortgage survey. R. D. Maxwell. Forbes 14:520 Jl 19 '24

Limitations of city planning. F: Bigger. Am Inst Arch J 13:199-202+ Je '25

Loi du juillet 1924 complétant celle du 14 mars 1919 sur l'aménagement des villes. G: Mesnard. Génie Civil 85:195-7 Ag 30 '24

Making money and keeping the faith. F: Beckmann. il Nation's Business 13:22-5 Je '25

Planned cities. T: Adams. il Am Inst Arch J 12:1-12 Ja '24

Planned cities of the middle ages. N. Hammarstrand. plans Am Inst Arch J 13:22-6 Ja '25

Planning a municipal program. P. F. Hopkins. Munic & Co Eng 66:193-7 Ap '24

Planning Chicago's development. W Soc E J 30: [current news] 62-6 Ap '25

Planning of Kitchener and Waterloo, Ont. H. L. Seymour. il map Can Eng 47:125-30 Jl 8 '24

Planning the small city. E: T. Hartman. il plans Am Arch 126:81-8 Jl 30 '24

Planning transportation in city development. C. E. Smith. Elec Ry J 66:15-16 O 10 '25

Prevention of economic waste by city planning. H. Bartholomew. J Land & Pub Util Econ 1:83-8 Ja '25

Progress of town planning in Massachusetts. Monthly Labor R 19:1132 N '24

Project for lake front development of the city of Chicago. E. Saarinen. il diags map plans Am Arch 124:487-514 D 5 '23

Protecting the city plan. P. Nichols. Boston Soc C E J 12:355-7 O '25

Regional planning, garden cities, zoning and traffic, main topics at International town, city and regional planning conference. Eng N 94:733-5 Ap 30 '25

Remedies for street congestion. H. Bartholomew. Aera 12:1329-38 Mr '24; Same cond. Elec Ry J 63:366-9 Mr 8 '24; Same cond. Eng N 92:766-7 My 1 '24; Discussion. Aera 12:1339-49 Mr '24

Remodeling our civic clay; Springfield, Massachusetts. A. G. Ingalls. il Sci Am 130:90+ F '24

Review of town planning in Canada. T: Adams. Can Eng 46:651-3 Je 24 '24; Discussion. 47:276, 387 Ag 26, S 30 '24

Rural planning—the village. W. C. Nason. U S Agric Farmers' Bul 1441:1-46 '25

Some notes on town planning. H. J. March. Can Eng 47:384 S 30 '24

Street platting and railroad right of way. D. W. Pontius. diags Eng & Contr (Ry) 61: 1116-19 My 21 '24; Same abr. Aera 12:1195-6 F '24

Study in problems of urban growth. T: Adams and H. L. Seymour. diags Can Eng 47:543-9 N 25 '24

Super-highway plan for greater Detroit. il Eng & Contr (R & S) 62:283-7 Ag 6 '24

Super-highway system proposed for Detroit. il diags map Eng N 92:1054-5 Je 19 '24

Synopsis of the advantages of town planning and zoning. F. E. Buck. Eng & Contr (Bldgs) 63:412-16 F 25 '25

Town planning and town development. S. D. Adshead. 204p Dutton '23; Review. H: Wright. Am Inst Arch J 12:222-4 My '24

Town planning in Ontario. N. D. Wilson. Can Eng 48:322 Mr 17 '25

Town planning in Ottawa. Can Eng 48:539 Je 2 '25

Town planning institute of Canada annual convention, Toronto. Can Eng 46:483 Ap 29 '24

Town planning progress at Brantford. A. E. K. Bunnell. Can Eng 47:334-6 S 16 '24

Town planning questionnaire. J. C. Keith and T. D. LeMay. Can Eng 45:595 D 18 '23

Towns and town-planning, ancient and modern. T: H. Hughes and E. A. G. Lamborn. 156p Oxford '23

Traffic-transportation planning and metropolitan development. J. R. Bibbins. Ann Am Acad 116:205-14 N '24; Same. Eng & Contr (R & S) 64:1026-32 N 4 '25

Village that became a metropolis and how it solved a vital problem. il map Am Arch 125:229-33 Mr 12 '24

Vitruvius on city planning. N. Hammarstrand. Am Inst Arch J 13:67-70 F '25

See also Aviation landing stations; Building laws and regulations; Community centers; Garden cities; Housing; Model towns; Municipal centers; Parks; Streets; Regional planning; Roads—Superhighways; *also* International town, city and regional planning conference

Zone system

L'aménagement de grands espaces libres par le Département de la Seine. A. Bidault des Chaumes. maps Génie Civil 85:205-9 S 6 '24

Baltimore zoning ordinance partly upset by state court. Eng N 94:367 F 26 '25

City zoning for health and safety. C: B. Ball. Nat Safety N 12:35-6 O '25

Digest of court decisions on zoning. Munic & Co Eng 67:66-9 Ag '24

Evidence in zoning cases. F. D. Stringham. Munic Eng 65:241-4 N '23

Experience of the first year of zoning in Providence. C: F. Fisher. Eng & Contr (Bldgs) 62:1381-3 D 24 '24

Factors in the zoning of cities; a symposium. G: C. Whipple and others. Am Soc C E Pro 51:153-217, 434-46 F-Mr '25

Future of zoning as based on experience to date. A. L. Stephens. Munic Eng 65:272-4 D '23

CITY planning—Zone system—*Continued*
Influence of zoning on the design of a telephone plant. A. P. Allen. maps Am Soc C E Pro 51:232-41 F '25; Discussion. 51:447-9 Mr '25
Influence of zoning on the design of public recreation facilities. C. E. Brewer. Am Soc C E Pro 51:242-6 F '25; Discussion. 51:453-5 Mr '25
Influence of zoning on the design of the street system. T. G. Phillips. Am Soc C E Pro 51:224-31 F '25; Discussion. 51:447-55 Mr '25
Influence of zoning on the design of transportation services. J. R. Bibbins. map Am Soc C E Pro 51:247-57, pl 1 F '25; Discussion. 51:450-3 Mr '25
Massachusetts court sustains zoning laws. Eng N 93:833 N 20 '24
Millions benefit from zoning. Am Ind 25:34-5 Ap '25
New town planning powers in Ontario. H. L. Seymour. diags Can Eng 46:581-2 Je 3 '24
Proposed zoning ordinance for the city of Chicago. 3v Chicago zoning commission, Chicago '23
Relation of zoning to the design of drainage and sewerage. P. Hansen. Am Soc C E Pro 51:220-3 F '25
Water front zoning at San Diego. M. A. Graham. Eng N 95:226-7 Ag 6 '25
What the architect thinks of zoning. H. W. Corbett. il Am Arch 125:149-50 F 13 '24
Zoning. N. Cauchon. Can Eng 46:490 My 6 '24
Zoning and architecture. E: T. Hartman. il Am Arch 128:351-6 O 20 '25
Zoning and housing. C: B. Ball. W Soc E J 30:146-9 Ap '25
Zoning and water supply. H. M. Pirnie. Am Soc C E Pro 51:258-61 F '25
Zoning for the health of the community. B. E. Parry. Can Eng 49:149-52 Jl 21 '25
Zoning in the United States. Eng & Contr (R & S) 60:972 N 7 '23
Zoning law of Washington, D. C., upheld by District court. Eng N 95:117 Jl 16 '25

CITY slogans. See Slogans, City

CITY surveying. See Surveying

CIVIL engineering
Civil engineering design, types and devices. T: W. Barber. 2d ed., enl. 252p C. Lockwood and son, London '24
Elementary civil engineering. J. W. Jourdan. Eng Educ 14:121-5 N '23
Introduction to the practice of civil engineering. E. E. Mann. 296p [bibliog. p. 268-70] Macmillan '24

See also Aqueducts; Arches; Blasting; Breakwaters; Bridges; Building; Canals; Cofferdams; Curves; Dams; Docks; Drainage; Dredging; Drilling and boring (earth and rocks); Dry docks; Earthwork; Embankments; Excavation; Filling; Flood control; Foundations; Highway engineering; Hydraulic engineering; Hydraulic filling; Irrigation; Landslides; Lighthouses; Marine engineering; Masonry; Mechanical engineering; Mining engineering; Moving of structures; Municipal engineering; Piers; Piles and pile driving; Pipe laying; Public works; Railroad engineering; Railroads—Construction; Reclamation of land; Regional planning; Retaining walls; Rivers—Regulation; Roads; Sanitary engineering; Sewerage; Shore protection; Steel construction; Strains and stresses; Streets; Strength of materials; Subways; Surveying; Tunnels and tunneling; Water supply engineering; Wharves; Wrecking

Bibliography

Current civil engineering literature. Published in monthly numbers of Proceedings of the American society of civil engineers

Study and teaching

See Engineering—Study and teaching

CIVIL engineers
Unnecessary exposure to danger not justified in law. L. Childs. Eng N 93:93 Jl 17 '24

Directories

Annuaire de 1924 et partie formant complément à l'annuaire décennal publié en 1920. 328p Soc Ing Civils de France '24

CIVIL rights
United States Supreme court rules that Federal courts cannot deny jury trials in contempt cases in labor disputes. Comm & Fin Chr 119:1920-1 O 25 '24

CIVIL service
Competency and economy in public expenditures. Ann Am Acad 113:202-69, 306-61 My '24

India

Indian civil services. Economist 98:1151-2 Je 7 '24

United States

See also Government employees

CIVIL service pensions
Federal civil service retirement law. J: T. Doyle. Ann Am Acad 113:330-8 My '24
Retirement pay of federal employees. J. J. Davis. Monthly Labor R 20:624-5 Mr '25
Retirement systems and morale in public service. H. H. Baish. Ann Am Acad 113: 338-50 My '24

CIVILIZATION

Outlines, syllabi, etc.

Introduction to contemporary civilization. 5th ed. 122p Columbia univ. press, New York '25

CLAIMS

See Damages; Railroads—Claims; Street railroads—Claims

CLAISEN reaction
Claisen reaction; abstract. G. T. Morgan and E. Holmes. Chem Age (Lond) 12:131 F 7 '25

CLAMPS
Clamping blocks for holding driving-box wedges. H. H. Henson. il diags Mach 30: 594 Ap '24
Clamping devices for jigs and fixtures. E. E. Lakso. diags Mach 31:648-9 Ap '25
Clamps for boring locomotive tires. il diags Ry R 73:771 N 24 '23
Clamps for production fixtures; reference-book sheet. Am Mach 63:365 Ag 27 '25
Pneumatic mortising clamp. J. L. Brown. il Elec Ry J 65:974 Je 20 '25
Quick-acting clamp. F. J. Dittmar. diag Mach 32:216 N '25
Swinging-leaf clamping devices. F. Server. diags Mach 30:544-6 Mr '24

CLARIFIERS
Golden cycle "superthickener" and clarifier. N. Cunningham. Eng & Min J 119:905-7 My 30 '25
Petree process for the clarification of cane juices. E. E. Hartmann. diags Ind & Eng Chem 16:1178-80 N '24

CLARION river
Clarion river hydro-electric development. C: B. Hawley. Am Water Works Assn J 11: 409-15 Mr '24

CLARKE-McNARY law. See Forestry laws and legislation

CLASSIFICATION
Business library classification (Elliott's). R. Alexander. Special Lib 15:27-8 F '24
Cataloging an industrial research library. J. F. Smith. Special Lib 15:218-19 N '24
Classification in special libraries. E. Mueser. Special Lib 14:146-8 N '23
Classification problem in statistics. R. H. Coats. Int Labour R 11:509-25 Ap '25
Classification problems of industrial research libraries. J. F. Smith. Special Lib 16:322-4 O '25
Library of Congress classification vs. decimal classification. D. Fellows. Lib J 50:291-5 Ap 1 '25
L.C. vs. D.C. for college library. J. R. Gulledge. Lib J 49:1026-7 D 1 '24
Value of a library to engineers. S. J. Williams. Special Lib 15:133-4 Je '24

See also Files and filing (documents)

CLASSIFICATION, Decimal
Decimal classification, 651, 658, 331. M. Dewey. 56p Forest press, Lake Placid club, New York '24
Decimal system for engineering data. J. Feld. Eng N 95:513 S 24 '25
Filing systems for newspaper clippings; the Dewey system. A. N. Lundberg. Special Lib 16:297-8 O '25
Information classification for the management adapted from the Dewey decimal system. Management & Adm 7:449-64 Ap '24
Tentative decimal classification and system of subject headings for the literature of business. F. Rider. 333p Cumulative digest corp., New York '24; Review by R. Alexander. Special Lib 15:113-14 My '24

CLASSIFICATION of positions
Classification and salary standardization movement in the public service. F. Telford. Ann Am Acad 113:206-15 My '24
Reducing labor costs through payroll analysis. E. C. Gould. Ind Management 67:263-4 My '24
Science of personnel classification. A. B. McDaniel. Prof Eng 9:7-8 Ja '24
Uses of a personnel classification in the public service. L: Meriam. Ann Am Acad 113: 215-20 My '24
What is a skilled man? M. R. Lott. Ind Management 69:179-82 Mr '25

See also Civil service

CLASSIFIERS
Fahrenwald constant-density classifier. il diags Eng & Min J 119:506-7 Mr 21 '25
Kinetic elutriation. L. Andrews. diag Chem Age (Lond) 10:346-7 Ap 5 '24

See also Screening; Screens

CLAVILUX. See Color organ

CLAY
Action of heat on kaolinite and on kaolinitic clays. W. Vernadsky. Chem Age (Lond) 11: sup14-16 N 15 '24
Aluminum salts from clay for paper sizing and filling. Chem Age 32:204 Ap '24
American clays as compared to English clays in white ware bodies. E. H. Fritz. Am Cer Soc J 8:253-6 Ap '25
Analysis of the suspension of enamel by clay in terms of the colloid theory. E. P. Poste. Am Cer Soc J 8:232-8 Ap '25
Bibliography and abstracts on the utilization of pebbly clays for heavy clay products manufacture. F. T. Heath. Am Cer Soc J (Bul) 8:165-88 Ap '25
Chemistry and physics of clays and other ceramic materials. A. B. Searle. 695p E. Benn, ltd., London '24
Clay in rubber compounds. India Rubber W 69:159 D '23
Clay soils in relation to road subgrades. H. H. Bennett. Pub Roads 6:180-1 O '25
Clays. Chemicals 24:24 Ag 10 '25
Clays and shales of Washington, their technology and uses. H. Wilson. (Eng. exp. sta. bul. 18) 224p Univ. of Washington, Seattle '23
Coal formation clays of Ohio. W. Stout and others. (4th ser., bul. 26) 588p Ohio Geol. survey, Columbus '23
Colloidal clay. F. E. Weston. Chem Age (Lond) 10:sup17-18 Je 21 '24
Comparison of American and foreign clays as paper fillers. M. B. Shaw and G: W. Bicking. il charts U S Bur Stand Tech Pa 262:337-80 [bibliog. p. 379-80] '24; Same abr. Paper Tr J 79:77-84 N 27 '24
Composition and properties of clay. A. F. Joseph and J: S. Hancock. Chem Soc J 125:1888-95 S '24
Development of a casting body for vitrified sanitary ware from American materials. A. Foltz. Am Cer Soc J 8:383-90 Je '25
Different types of plasticity of clays and kaolins. A. Bigot. Am Cer Soc J 7 (Cer A 3): 57-8 F '24
Effect of artificially colored clay on fast-to-light paper. G. K. Spence. Am Dyestuff Rep 12:890-1 D 3 '23
Effect of the concentration of colloidal clay upon its hydrogen ion concentration. R: Bradfield. J Phys Chem 28:170-5 F '24
Fine stoneware from flint clay. P. E. Cox. Am Cer Soc J 8:257-8 Ap '25
Georgia clays for rubber filler. W. M. Weigel. Rubber Age 15:301-4 Jl 25 '24
Grinding and screening clays. J. H. Kruson. il diag Brick & Clay Rec 63:691-4 N 13 '23
Marketing of high-grade clays. F. E. Wormser. il Eng & Min J 119:163-8 Ja 24 '25
Measurement of the heat absorbed and evolved by clays during firing and cooling. L: Navias. il diag Am Cer Soc J 6:1268-98 D '23
Notes on china clay. D. V. Lowe. Paper Tr J 80:203+ F 5 '25; Same. Paper 35:58+ F 12 '25
Observations on the properties of clays and clay-grog bodies. E: Schramm. Am Cer Soc J 7:282-4 Ap '24
Particle analysis of clays by sedimentation. E: Schramm and E. W. Scripture, jr. Am Cer Soc J 8:243-52 Ap '25
Plasticity of clay. W. D. Bancroft and L. E. Jenks. J Phys Chem 29:1215-16 O '25
Preliminary report on the clay and shale deposits of Ontario. J. Keele. diags Can Geol S Memoir 142:1-176, pl 1-9 '24
Principles of soil mechanics; phenomena of cohesion of clay. C: Terzaghi. diags Eng N 95:742-6 N 5 '25
Quantitative determination of the development of mullite in fired clays by an X-ray method. L: Navias. Am Cer Soc J 8:296-302 My '25; Discussion. (Bul) 8:543-5 O '25
Raw materials of the ceramics industry. il Chem & Met Eng 32:618-20 Jl '25
Sillimanite development in some typical clays. H. M. Kraner. il diags Am Cer Soc J 7:726-34 O '24
Some observations on the drying properties of clays. D. C. Lindsay and W. H. Wadleigh. diags Am Cer Soc J 8:677-93 N '25
Studies on china clays. Chem Age (Lond) 10:sup16 Mr 15 '24
Studying Georgia clays. Manuf Rec 87:93 Ap 2 '25
The system: $Al_2O_3.SiO_2$. N. L. Bowen and J. W. Greig. il diags Am Cer Soc J 7:238-54 Ap '24
Treatise on Missouri clays. M. H. Thornberry. il diags map Mo U Sch Mines & Met tech ser 8:1-69 F '25
Uses of clays. Eng & Min J 120:540 O 3 '25
Value of domestic clay recognized. G: K. Spence. Paper 35:173-4 N 20 '24; Same. Chem Age (Lond) 11:sup8 D 20 '24

See also Bentonite; Bricks; Fire clay; Fuller's earth; Kaolin; Marl; Porcelain; Pottery; Silicon

Analysis
Rational analysis of clays. G. S. Tilley and J. D. Sullivan. Am Cer Soc J 7:379-81 My '24
Relation of texture and composition of clays. F. F. Grout. Am Cer Soc J 7:122-40 F '24

See also Soil analysis

Bibliography
Bibliography of clay deposits. H. Ries. Am Cer Soc J (Bul) 8:428-510 S '25

Classification
Classification of clays will lift industry to new plane. Brick & Clay Rec 64:723 My 13 '24

Specifications
Ball clay specifications. A. S. Watts. Am Cer Soc J (Bul) 7:288-94; Discussion. 294-9 Ag '24

Testing
Bonding effect of ball clays in fired bodies. H. H. Sortwell. Am Cer Soc J 7:75-81 F '24
Determination of grit in clays; comparison of centrifugal, flotation, elutriation and screening methods. G. M. Darby. diag Chem & Met Eng 32:688-90 Ag '25

CLAY—Testing—*Continued*
Machine for transverse tests of clay and glass laboratory specimens. A. C. Harrison. il diags Am Cer Soc J 8:774-83 N '25
Relation between dye adsorption of clays and their behavior in rubber compounds. H. R. Thies. Ind & Eng Chem 17:1165-9 N '25
Test for relative decolorizing efficiencies of clays. J. B. Hill, L. W. Nichols and H. C. Cowles, jr. Ind & Eng Chem 17:818-19 Ag '25

CLAY handling
Clay loading plant at Fowey. il Ind Management (Lond) 10:335-7 D 13 '23
Crane and grab installation for handling clay and cement. il diag Cassier's Ind Management 12:395-7 Ag '25
Handling raw material. il diags plans Brick & Clay Rec 67:185-90 Ag 4 '25
What automatic means when applied to clay handling. il Brick & Clay Rec 65:756-9 N 25 '24

See also Clay storage

CLAY industries
Capital for the clay industry. J. K. Moore. Brick & Clay Rec 63:556-8, 695-7, 853-6 O 16, N 13, D 11 '23
Safe insurance for clay plants. Brick & Clay Rec 64:104-6 Ja 22 '24

See also Brick industry and trade; Ceramic industries; Clay products; Fire brick; Glazes; Hollow tile; Porcelain; Pottery industry

Statistics

Progress of the clay industry as shown in the Bureau of the census report for the year 1923. charts Brick & Clay Rec 67:402 S 15 '25
Small drop in clay ware output. Brick & Clay Rec 67:544-7 O 13 '25
Value of clay output increases 34%. Brick & Clay Rec 65:317 S 2 '24

California

Clay industry of California. R. Linton. il Brick & Clay Rec 67:193-5 Ag 4 '25

Southern states

What the South offers the clay products manufacturer. il Brick & Clay Rec 65:98-103 Jl 22 '24

CLAY mines and mining
American clay deposits re-opened. Chem Age (Lond) 11:sup15 Jl 19 '24
Among the ball clay mines of Dorsetshire. il Chem Age (Lond) 10:sup15-16 Ja 19 '24
Hydraulic working of china clay. Chem Age (Lond) 11:sup8 Jl 19 '24
Mining of Indiana clay for terra cotta. L. Behrendt. Am Cer Soc J (Bul) 7:331-2 S '24
Operating the English clay pit. W. Barnes. il Brick & Clay Rec 66:584-8 Ap 14 '25
Progress of the skip-waggon. Chem Age (Lond) 12:sup 11 Je 20 '25
Saves labor of ten miners; underground loader; electric locomotives. il Brick & Clay Rec 67:330-2 S 1 '25
Teagle; its uses in clay mines. Chem Age (Lond) 12:sup 11 Mr 21 '25

CLAY products
Application of the interferometer to measurements of the thermal dilatation of ceramic materials. G: E. Merritt. diags U S Bur Stand Sci Pa 485:357-73 '24
Better loading means more orders. S. E. Cogswell. Brick & Clay Rec 64:737-8 My 13 '24
1923 clay products reach highest value ever recorded. Brick & Clay Rec 66:191-3 F 3 '25
Trade names now in use on face brick and other clay products. Brick & Clay Rec 64: 453 Mr 18 '24
Use of clay products in modern homes. R. B. Keeler. il Am Cer Soc J (Bul) 8:310-20 Jl '25

See also Bricks; Ceramic industries; Ceramics; Porcelain; Pottery; Stucco; Terra cotta; Tile

Advertising

Let's think about merchandising in the clay industry. Brick & Clay Rec 67:615-34 O 27 '25

Manufacture

Clay products in Oregon. Brick & Clay Rec 67:412-13 S 15 '25
Does it pay to modernize? E. J. Winkleman. Brick & Clay Rec 66:590-1 Ap 14 '25
Facts on the problem of electrification. J. R. Downs. Brick & Clay Rec 65:323-6 S 2 '24
Gladding, McBean & co.'s methods of producing 50,000 tons of clay ware. il Brick & Clay Rec 64:806-15 My 27 '24
Glimpse into the future of clay manufacturing. il diags Brick & Clay Rec 67:98-103 Jl 21 '25; Discussion. 67:250-1 Ag 18 '25
Operating five plants in one group. il Brick & Clay Rec 66:434-6 Mr 17 '25
Plant management methods. O. J. Whittemore. Am Cer Soc J (Bul) 8:587-95 N '25
Solving the lime pebble problem. F. T. Heath. Brick & Clay Rec 65:533+, 610 O 14-28 '24
Symposium on casting problems. Am Cer Soc J 8:565-98 S '25
What you should know about drying. W. E. Lemley. il Brick & Clay Rec 64:26-9 Ja 8 '24

Prices

Delivered-on-the-job prices on clay products. Brick & Clay Rec 64:349 Mr 4 '24

Testing

Strength of heavy clay products. J. H. Griffith. Am Cer Soc J 8:108-12 F '25

CLAY products institute
Annual meeting, 1st, Washington, D. C., March 18-19. Brick & Clay Rec 66:492-3 Mr 31 '25
Ceramic institute proposed. R. C. Purdy. Brick & Clay Rec 65:36-8 Jl 8 '24
Clay products institute commended. H. Hoover. Brick & Clay Rec 66:494-7 Mr 31 '25
Constitution. Brick & Clay Rec 65:596 O 28 '24
Reasons for organizing research under ceramics institute. R. C. Purdy. Brick & Clay Rec 65:93-6 Jl 22 '24

CLAY shingles. See Shingles, Clay

CLAY storage
Clay storage. R. A. Horning. diags Am Cer Soc J (Bul) 8:582-7 N '25

CLEAN coal. See Coal supply—Clean coal

CLEANERS' and dyers' union of Greater New York
Cleaning and dyeing industry, New York city. Monthly Labor R 19:131-2 Jl '24

CLEANING
Clarification of benzine in dry cleaning. diag Color Tr J 16:27-8 Ja '25
Dyeing and cleaning. C. Eastman. Soc Dyers & Col J 41:280-3 Ag '25
Fastness and cleaning of floor coverings. C: F. Goldthwait. Textile Col 47:37-9 Ja '25
Fires in dry cleaning plants. Safety Eng 49: 37 Ja '25
Importance of benzine soap to the dry cleaning and garment dyeing industries. J. M. Matthews. Color Tr J 15:79-82 S '24
Instructor in garment cleaning. C. C. Hubbard. 318p National assn. of dyers and cleaners, St Louis '24
New solvent adopted as standard by cleaners' association. Nat Pet N 17:37 S 16 '25
Practical dry cleaner, scourer and garment dyer, comprising dry, chemical or French cleaning. W: T. Brannt and J. B. Gray. 6th ed. 378p H. C. Baird & co., New York '24
Process and apparatus for dry cleaning. A. E. Flowers. diags Chemicals (Dyestuffs sec) 17:127-9 N 9 '25
Process for the treatment of solvents used in dry cleaning. J. W. Hinchley. il diags Soc Chem Ind J 44:117-23 Mr 13 '25
Reclamation of gasoline used in dry cleaning. C. C. Hubbard. diags U S Bur Stand Tech Pa 280:141-53 '25

CLEANING—*Continued*
Solvents for use in the cleaning of dyed garments. J. M. Matthews. Color Tr J 15:173-6; 16:17-20 D '24-Ja '25
Survey of dry cleansing methods in the vicinity of Boston, Mass. W. J. Connell, R. W. Lamson and P. Drinker. bibliog il J Ind Hygiene 6:227-44 O '24

See also Automobiles—Cleaning; Bath tubs—Cleaning; Bleaching; Boiler cleaning; Brass—Cleaning; Bricks—Cleaning; Building stone—Cleaning; Car cleaning; Coal cleaning; Dyes and dyeing; Electric generators—Cleaning; Factories—Cleaning; Gas pipes—Cleaning; Laundry; Locomotives—Cleaning; Metal cleaning; Office buildings—Cleaning; Septic tanks—Cleaning; Sewer cleaning; Street cleaning; Tank ships—Cleaning; Vacuum cleaning; Water pipes—Cleaning; Window cleaning

CLEANING preparations
Prepared detergents for textile finishing. J. F. Tonn. Am Dyestuff Rep 13:166-9 Mr 10 '24
Preparing soap powder by spray drying. Chem & Met Eng 29:1151 D 24 '23
Value of trisodium phosphate as an alkali cleaner. P. Fulkerson. Brass W 20:237-9 Jl '24

See also Potassium hydroxide

CLEANLINESS
Cleanliness counts! L. St Clair. Aera 13:1533-7 Ap '25

See also Baths; Factories—Cleanliness

CLEANOUTS. See Plumbing—Cleanouts

CLEARANCE
Clearance for bolt heads and nuts. J: S. Watts. diags Mach 30:277-8 D '23

CLEARING house associations
Give the country bank this additional protection. C. B. Hazlewood. Am Bankers Assn J 17:750+ Je '25
Way to sounder banking. C. B. Hazelwood. Am Bankers Assn J 18:255-6 O '25; Same. Comm & Fin Chr 121:150-1 sec 2 O 17 '25; Abstract. Bankers M 111:565-6 O '25

CLEARING houses
A.B.A. clearing house section meeting. Bankers M 109:810-11+; 111:523-9 O '24, O '25
Better protection for country banks. C. A. Chapman. Comm & Fin Chr 119:121-3 sec 2 O 18 '24; Same cond. Am Bankers Assn J 17:265+ O '24
Bills, cheques, &c., paid at the London bankers' clearing house during the year 1923. Economist 98:8 Ja 5 '24
Change in rules of New York clearing house association whereby interest rates are no longer automatically dependent on federal reserve rates. Comm & Fin Chr 119:32 Jl 5 '24
Clearing house scope widened. C. W. Allendoerfer. Am Bankers Assn J 18:252-3 O '25
Ideal clearing house. R. F. McNally. Comm & Fin Chr 121:129-31 sec 2 O 17 '25; Same abr. Am Bankers Assn J 18:248-9+ O '25; Discussion. Comm & Fin Chr 121:134-5 sec 2 O 17 '25
Nation gains 29 clearing houses. Am Bankers Assn J 17:261-2 O '24
Only method to preserve independent banking; county clearing houses and bureaus of credit versus branch banking. C. A. Chapman. Am Bankers Assn J 18:88+ Ag '25
Value of clearing house examiners in smaller cities. T. P. Farmer. Am Bankers Assn J 17:327-8 N '24

See also Banks and banking; Trust companies

Statistics
Bank clearings. Published in weekly numbers of Annalist and Bradstreet's
Bank clearings at 140 cities of the United States and Canada by rank. Bradstreet's 53:66 Ja 24 '25
Bank clearings at 138 cities of the United States and Canada for October and ten months, 1924 and 1923. Bradstreet's 52:718 N 8 '24
Bank clearings at 122 cities in 1924. Bradstreet's 53:23-4 Ja 10 '25
Bank clearings in 1923 and the course of trade and speculation. Comm & Fin Chr 118:352-9 Ja 26 '24
Bank clearings in 1924 and the course of trade and speculation. Comm & Fin Chr 120:257-65 Ja 17 '25
Bank clearings little below peak in 1923. Bradstreet's 52:9-10 Ja 5 '24
Bank clearings, 1900-1924. Annalist 25:39 Ja 5 '25
Clearings of San Francisco clearing house for 1924 highest on record. Comm & Fin Chr 120:2645 My 23 '25
Continued expansion in bank clearings. Dun's R 32:11+ Ja 12 '24
Course of bank clearings for the year. Comm & Fin Chr 120:155-8 Ja 10 '25
Course of bank clearings; United States and Canada. Published in weekly numbers of Commercial and financial chronicle
Irregular gains in bank clearings. Bradstreet's 53:578-9 S 5 '25
Record January bank clearings reported. Dun's R 33:11 F 14 '25
Unprecedented bank clearings last year. Dun's R 33:12+ Ja 10 '25
Weekly returns of New York city clearing house banks and trust companies. Published in weekly numbers of Commercial and financial chronicle
Yearly figures of New York clearing house association. Comm & Fin Chr 119:1697-8 O 11 '24
Yearly figures of New York clearing house association. Comm & Fin Chr 121:1748-9 O 10 '25

CLEARING of land
Clearing Florida jungles with tractors. il Eng & Contr (G C) 63:1130-1 My 20 '25
Hoist engines used as stump pullers. A. D. Blakeslee. il Eng N 92:1027-8 Je 12 '24
Methods used for clearing and grubbing basin of Schoharie reservoir. Eng & Contr (G C) 64:915-16 O 21 '25
Preparation of landing field at United States naval air station, Lakehurst, N. J. il Eng & Contr (G C) 63:1079-82 My 20 '25
Two new land clearing devices. G: Amundson. il Eng & Contr (Ry) 61:393-4 F 20 '24
Value of the tractor for clearing jungle lands. il Dun's Int R 46:55-6 O '25

See also Lumbering

CLEVELAND, Ohio

Hotels
Wade Park Manor hotel, Cleveland. Arch Forum 39:pls 80-4 N '23

Industries and resources
Cleveland; being a survey, analysis and forecast of the Cleveland market of 1924 for the convenient reference of newspaper advertisers. 42p Cleveland press, Cleveland '24

Rapid transit
Arbitration of wages in Cleveland. Elec Ry J 63:863, 905-6, 944-5, 993 My 31-Je 21 '24
Bitter words over Cleveland bus proposal. Elec Ry J 64:1087-8 D 27 '24
Bus talk in Cleveland. Elec Ry J 63:479 Mr 22 '24
Cleveland goes behind. Elec Ry J 63:230 F 9 '24
Cleveland labor restive; employees threaten strike following declaration of open shop and announcement of wage advance. Elec Ry J 65:743, 785 My 9-16 '25
Higher maximum fare recommended for Cleveland. Elec Ry J 66:28 Jl 4 '25
Non-parking law and boulevard stop saving lives in Cleveland. R. W. Emerson. Aera 14:390-2 O '25
Stops eliminated in Cleveland. Elec Ry J 63: 789 My 17 '24

CLEVELAND, Ohio—Rapid transit—*Continued*
Synchronized traffic control is costly to street railway. L. D. Bale. il plan Aera 14:163-9 S '25

Sewerage

Water-supply and sewage-disposal problems at Cleveland. Eng N 94:1034 Je 18 '25

Streets

Improving traffic conditions in Cleveland. J: J. Stanley. Elec Ry J 63:375-6 Mr 8 '24

Water supply

Foul tastes in Cleveland water again caused by phenol. J. W. Ellms. Eng N 92:453 Mr 13 '24

CLEVELAND, Cincinnati, Chicago & St Louis railway
Annual report, 35th, 1923. Ry Age 77:40-1 Jl 5 '24; Comm & Fin Chr 119:92-3 Jl 5 '24
Annual report, 36th, of the board of directors for the year ended Dec. 31 1924. Comm & Fin Chr 121:580-1, 601-2 Ag 1 '25; Same abr. Ry Age 79:251-2 Ag 1 '25; Abstract. Ry R 77:220 Ag 8 '25
Big Four cutoff involves monumental bridge; relocation at Sidney, Ohio. il map Ry Age 77: 99-103 Jl 19 '24; Same. Eng & Contr (Ry) 62:847-54 O 15 '24
Big Four improves relative position. map Ry Age 79:229-30 Ag 1 '25

CLEVELAND electric illuminating company
Attractive investment medium in the present market. Moody's Inv Serv 17:179 My 28 '25

CLEVELAND metal products company
Budget methods of metal product company. Iron Age 114:910-12 O 9 '24

CLEVELAND southwestern railway and light company
Changeover of Cleveland southwestern railway and light company to automatic substations. G. H. Kelsay and H. W. Stiner. il map Gen Elec R 28:436-9 Je '25

CLEVELAND stock exchange
Record of prices on the Cleveland stock exchange. Comm & Fin Chr 120:1018-19 F 28 '25

CLIFFSIDE, North Carolina
Self-contained community at Cliffside, N.C. il Textile World 65:3945+ Je 14 '24

CLIMATE
Climates of the United States. R. D. Ward. 518p Ginn '25
Extra risks in connection with life assurance. W. T. May. Econ W n s 30:346-8 S 5 '25

See also Paleoclimatology

CLINICS
Seven clinics under one roof keep Kenosha healthy. il Nation's Health 6:709-10 O '24

CLINICS, Industrial
Opportunities for industrial service in a general hospital. D. C. Parmenter. J Ind Hygiene 7:62-8 F '25

CLINKERS
Ash softening temperatures and clinkering of coals in a boiler furnace. J. F. Barkley. U S Bur Mines Rep of Invest 2630:1-3 Ag '24 (typew)
Prevention of clinker formation. D. C. Hess. il diag Power 59:137-8 Ja 22 '24; Same. Elec W 83:141 Ja 19 '24
Refractory session of A.I.M.M.E. discusses dolomite clinker. Iron Age 116:1112-13 O 22 '25

CLIPPINGS
Filing systems for newspaper clippings; symposium. Special Lib 16:297-304 O '25

CLIPS
Follow-die for small clips. E: Heller. diag Mach 30:864-6 Jl '24
Progress in clip construction. il Cassier's Ind Management 11:504 D '24

CLOCKS
The clock book. W. Nutting. 312p Old America co., Framingham, Mass. '24
Clockmaking, past and present. G: F. C. Gordon. 232p [bibliog. p. 150-4] C. Lockwood and son, London '25
Continuous-motion clock that does not tick. il diags Sci Am 130:171 Mr '24
Meeting the price argument for orphan goods. Ptr Ink 133:114+ O 8 '25
New kind of sun-dial invented by W. E. Cooke. F. Hope-Jones. il Engineering 120: 84-5 Jl 17 '25
Time and time keepers. W. I. Milham. 609p Macmillan '23

See also Time clocks; Watches; Watchmen's clocks

Bibliography

Time and time keepers. W. I. Milham. p 569-98 Macmillan '23

History

L'horloge à travers les âges. A. Wins. 343p E. Champion, Paris '24

Manufacture

Around the clock with safety at Big Ben's home. C. T. Fish. il Nat Safety N 10:11-14 D '24

CLOCKS, Electric
Electrical horology. H. R. Langman and A. Ball. 180p Henley '23
L'électricité et ses applications à la chronométrie. A. J. Favarger. 3d ed., rev. & enl. 557p [bibliog. p. 555-7] Journal suisse d'horlogerie et de bijouterie, Neuchâtel, Switzerland '24
L'horlogerie électrique nouvelle. diags Génie Civil 85:19 Jl 5 '24
Inducta clock of the Stonebridge electrical co., ltd. il Elec R (Lond) 97:398 S 4 '25
Measuring time; the place of the electric clock. R. A. Sampson. Electrician 95:149 Ag 7 '25
Some recent developments in electrical clocks. C. E. Prince. il diag Elec R (Lond) 95:877 D 5 '24

CLOCKS, Watchmen's. See Watchmen's clocks

CLOISTERS
Courtyard, Santa Maria Della Querce. il diags Am Arch 127:343-5 Ap 8 '25

CLOQUET, Minnesota
Birth of an industry. H. Oldenburg. Chem & Met Eng 31:859-60 D 1 '24

CLOSETS
Building of moth proof closets. C. J. Krieger. Bldg Age 45:80 D '23

CLOTHING
Aprons and house dresses. N. Kneeland. 141p Shaw '25
Effective temperature with clothing. C. P. Yagloglou and W. E. Miller. charts Am Soc Heat & V E J 31:59-70 Ja '25; Abstract. Heat & Ven 22:63-5 F '25
Negligees. N. Kneeland. 156p Shaw '25
Suits. F. J. Ringo. 123p Shaw '25

See also Collars; Employees—Clothing; Gloves; Hosiery; Neckties; Paper textiles; Tailoring; Textile fabrics; Underwear

CLOTHING trade
Budgetary control for the cloak and suit industry. T. I. Schneider. 150p Maxwell Keller pub. co., New York '24
Character of management as a basis for obtaining bank credit. Harvard Business R 3: 481-5 Jl '25
Cloak and suit situation. M. Copelof. Textile World 66:3280-1 D 6 '24
Clothing and the immediate future. W: Goldman. Textile World 64:3443+ D 8 '23
Competition in the retail distribution of clothing. H. Secrist. 27p Northwestern univ., School of commerce, Chicago '23
Creative wealth factors in modern scientific clothes consumption; men's clothing industry. F. F. Wieder. Ann Am Acad 115: 65-9 S '24
Credit in woolens situation. A. D. Whiteside. Textile World 66:3282+ D 6 '24
Does the dealer resist novelties that offer economies? W. C. Page. Ptr Ink 132:145+ Jl 2 '25

CLOTHING trade—*Continued*
Dresses. F. J. Ringo. 152p Shaw '25
Expense levels in retailing. H. Secrist. 46p Northwestern univ. School of commerce, Chicago '24
Garment industries in Cincinnati. J. B. Adams. 72p Cincinnati public schools vocation bureau '24
Girls' and juniors' ready-to-wear. F. J. Ringo. 160p Shaw '24
Lifting a line above rivalry in a competitive field; specializing in apparel for small women. W. B. Edwards. Ptr Ink 128:101-2+ Ag 21 '24
London making-up trades. H. Kay. Textile Inst J 15:P405-8 Ag '24
Making the modes. E: F. Crowe. Comm & Fin 13:1731-3 S 17 '24
Management in the clothing industry. S. E. Thompson and W. E. Freeland. Management & Adm 8:289-94 S '24
Relation of Mutual adjustment bureau to trade. J. J. Nevins. il Textile World 65: 761-2 F 2 '24
Seven years' view of sales and expenses of retail clothiers, 1916 to 1922. H. Secrist. 28p Northwestern univ., School of commerce, Bur. of business research, Chicago '24
Simplifying cloth but not styles increases volume and profits. A. Belden. Ptr Ink M 8: 56, 59-60 Ap '24
Some commercial aspects of styles and fashions in the clothing and textile industries. P. T. Cherington. Harvard Business R 2:421-33 Jl '24
Survey of the garment trades in San Francisco. E. G. Palmer. 87p [bibliog. p 85-7] Univ. of California, Berkeley '21
Trend of organization in the clothing industry. Management & Adm 8:73-4 Jl '24
Waists. N. Kneeland. 149p Shaw '24
Weather drawbacks in clothing trade. Dun's R 32:10-11 Ap 5 '24

See also Dress goods; Dry goods; Fashion; Garment workers; Hats; Men's furnishing goods; Millinery; Overalls; Waists; *also* Amalgamated clothing workers; International ladies' garment workers' union

Advertising

Campaigns which help to prove that clothes make the man. Ptg Art 44:471-6 Ja '25
Can advertising banish the spell of the foreign label? Ptr Ink 131:10+ My 28 '25
How an advertised cat put Sam Ashley on the road to prosperity. R. Rockafellow. Ptr Ink 126:141-2+ Mr 6 '24
Is national advertising of apparel a waste? E. Wolff. Ptr Ink 128:25-6+ Ag 14 '24
Must the style manufacturer find a new copy appeal for his advertising? L: C. Pedlar. Ptr Ink 127:41-2+ My 22 '24
Pictures—a commercial necessity. R. Highet. Ptd Salesmanship 46:31-6 S '25
Planning direct advertising for dealers in men's wear. R. E. Ramsay. Inland Ptr 75: 415-18 Je '25
Retailer refuses to match wits with customers. Ptr Ink 126:158+ Ja 24 '24
Retailer spots a weak link in the manufacturer's chain. R. C. Bretz. Ptr Ink 131:17-20 Ap 30 '25
Successful Clevelanders help store advertise men's suits. H. E. Martin. Ptr Ink 125:125-6 N 22 '23
Teaching a city how to dress. Ptr Ink 125: 165+ D 20 '23

See also Collars—Advertising

Labor problems

Agreement in New York clothing market grants workers' unemployment insurance and other demands—text of agreement. Comm & Fin Chr 119:142 Jl 12 '24
Clothing industry awards and decisions—Baltimore and Chicago. Monthly Labor R 19: 1032-4 N '24
Clothing industry, Chicago; decisions of the trade board in the men's clothing industry in regard to the discipline of workers. Monthly Labor R 21:345-8 Ag '25
Clothing industry, Chicago; unemployment insurance. Monthly Labor R 17:1115-20 N '23
Clothing industry—New York city. Monthly Labor R 20:1077-9 My '25
Clothing industry, New York city; labor agreement. Monthly Labor R 21:337-9 Ag '25
Clothing workers agreement in Baltimore. Monthly Labor R 20:114-15 Ja '25
Men's clothing industry, Milwaukee; labor agreement. Monthly Labor R 21:756-7 O '25
New labor agreement signed in the women's wear trades of New York. Comm & Fin Chr 119:260-1 Jl 19 '24
Unemployment insurance in the men's clothing industry of Chicago. H. A. Millis. Univ J of Business 2:157-68, 374-6 Mr-Je '24
Use of health label in Women's garment trades. Monthly Labor R 21:13-14 Jl '25
Wages and hours of labor in the men's clothing industry 1911-1924. U S Bur Labor Statistics Bul 387:1-51 '25; Excerpts. Monthly Labor R 19:1062-7 N '24

See also Garment workers

Statistics

Bigger gamble than Wall Street. Comm & Fin 14:639-41 Ap 8 '25
Clothing industry shows lessened activity. Dun's R 32:8+ Ag 2 '24
Clothing trade has fair spring business. Dun's R 33:8-9 Ap 25 '25
Distribution of clothing nearing normal. Dun's R 32:8-9 N 29 '24
Surveying of clothing industry. Dun's R 33: 8-9 Ag 22 '25

CLOUDS

Vacation meteorology and the lure of cloudland. C: F. Talman. il Sci Am 132:374-6 Je '25

CLUBHOUSES

Architecture of country clubs. R. H. Bullard. il Arch Forum 42:133-8 Mr '25
Biltmore Forest country club, Biltmore, N.C. il plans Am Arch 127:461-6 My 20 '25
Buffalo athletic club, Buffalo, N.Y. il plans Am Arch 125:279-86g Mr 26 '24
Business men's club, Cincinnati, Ohio; views and plans. Am Arch 127:pl 21-4 Ja 28 '25
City club, St Louis, Mo.; views and plans. Am Arch 126:pl 89-92 S 10 '24
Club building for the Fraternal order of Eagles, Davenport, Iowa; views and plans. Am Arch 127:306-8 Mr 25 '25
Club house, Oakland golf club, Bayside, L.I., N.Y.; views and plans. Am Arch 125:160g F 13 '24
Cornell club of New York; views and plan. Am Arch 125:542c-d Je 4 '24
Country club, Roanoke, Va.; views and plans. Arch Forum 43:75-6 Ag '25
Developing the country club plan. C. C. Wendehack. il plans Arch Forum 42:139-44 Mr '25
Evolution of the golf club house in America. J. L. Brown. il Arch Forum 42:131-2 Mr '25
Fayetteville country club, Fayetteville, N. C. il plan Arch Forum 43:27-8 Jl '25
Furnishing and decoration of a country club. B. Phillips. il Arch Forum 42:149-52 Mr '25
Interior architecture of the country club. il Arch Forum 42:145-8 Mr '25
Lake breezes + home comforts; floating home of the Chicago yacht club. il diags Dom Eng 108:31+ Jl 26 '24
North Jersey country club, Paterson, N.J. C. C. Wendehack. il plan Am Arch 125:384-h Ap 23 '24
North Jersey country club, Paterson, New Jersey; views and plan. Arch Rec 56:521-7 D '24
Oakland golf club, Bayside, N.Y. Arch Forum 39:315, pl 97-101 D '23
Phelps manor country club, Englewood-Teaneck, N. J. Am Arch 125:486d My 21 '24
Planning for food service. A. E. Merrill. il plans Arch Forum 42:203-6 Mr '25
Quaker Ridge golf club, Mamaroneck, N.Y.; views and plans. Am Arch 127:pl 162-7 Je 17 '25

CLUBHOUSES—*Continued*
Racquet club of Chicago. M. Andrews. il plans Arch Rec 56:193-205 S '24
Shrine building, Memphis, Tenn.; views and plans. Am Arch 125:486a-c My 21 '24
Small country club. A. Embury. il plans Arch Forum 42:169-76 Mr '25
What the golfer wants in his club. G. Rice. il Arch Forum 42:129-30 Mr '25

See also Fraternity clubs building, New York; Fraternity houses; Glessner house, Chicago; Michigan university—Lawyers' club

CLUETT, Peabody & company
Cluett, Peabody buys Earl & Wilson business. Ptr Ink 130:85 F 5 '25

CLUTCHES
Application of friction clutches to machine tool drives. S. H. Simon. diags Mach 32: 111-13 O '25
Automatic centrifugal clutches. H. Bentley. Am Mach 61:794 N 20 '24
Clutches and couplings. G. A. Van Brunt. il Ind Eng 83:63-4 F '25
Clutches and transmissions for the RS-1. il Aviation 19:12-13 Jl 6 '25
Conical clutch designs. A. Clegg. diags Mach 30:867-9 Jl '24
Conjoncteur-disjoncteur à friction; son application aux véhicules automoteurs comme embrayage automatique. J. Fieux. Génie Civil 86:239-40 Mr 8 '24
Considerations in friction clutch design. A. Clegg. Mach 30:669-70 My '24
Conway one-revolution-stop clutch. il Am Mach 62:597 Ap 9 '25
Cooper friction clutch. il diags Engineering 119:277 F 27 '25
Developments in clutch design. H. C. Town. diags Am Mach 60:558 Ap 10 '24
Developments in clutches for machine tools. P. H. Batten. diag Am Mach 61:498 S 25 '24
L'embrayage Fieux, à conjoncteur automatique. E. Brillié. diags Génie Civil 86:360-2 Ap 11 '25
Expanding and contracting ring clutches. A. Clegg. diags Mach 30:793-6 Je '24
Fieux clutch for locomotives. il diags Engineering 119:760-1 Je 19 '25
Formulas and data for friction clutches. G: W. Drake. diags Am Mach 61:955-7 D 18 '24
Friction clutches. R. Waring-Brown. 124p Pitman '24
Hilliard clutches and couplings. diag Mach 31:66-7 S '24
Hoerl friction clutch. il Iron Age 116:82-3 Jl 9 '25
Manufacture of Raybestos brake and clutch linings. E. Sheldon. il Am Mach 62:727-30 My 7 '25
Operating clutches and cutoff couplings. F. E. Gooding. il Ind Eng 82:127-30 Mr '24
Plate and coil clutches. A. Clegg. diags Mach 30:953-5 Ag '24
Sensitive clutch control device for Northwest cranes and shovels. il Iron Age 114:136 Jl 17 '24
Universal clutch-milling fixture. C: G. Pfeffer. il diag Am Mach 62:71-2 Ja 8 '25

See also Automobiles—Clutches; Motor trucks—Clutches

CLUTCHES, Magnetic
Magnetic clutches. C. H. S. Tupholme. diags Elec R (Lond) 95:848-9 D 5 '24
Operating clutches and cutoff couplings. F. E. Gooding. il Ind Eng 82:127-30 Mr '24
Use of clutches and cutoff couplings. F. E. Gooding. il diags Ind Eng 82:5-9 Ja '24

CO_2 recorders. See Carbon dioxide recorders

COAGULATION
Influence of anions on the coagulation of negatively charged suspensoids. J. N. Mukherjee and S. G. Chaudhuri. Chem Soc J 125:794-802 Ap '24
Kinetics of the process of coagulation of colloids in the light of Smoluchowski's theory. J. N. Mukherjee and S. K. Majumdar. Chem Soc J 125:785-94 Ap '24
Mechanical condition of coagula and its bearing on the theory of complete coagulation. S. S. Bhatnagar, K. K. Mathur and D. L. Shrivastava. diag J Phys Chem 28:387-96 Ap '24
Stability of colloidal solutions; the influence of negative ions, the effect of dilution and ageing and the influence of capillary active non-electrolytes on the coagulation of copper ferrocyanide sol. K. C. Sen. J Phys Chem 29:517-39 My '25
Studies in adsorption. S. Ghosh and N. R. Dhar. J Phys Chem 29:435-61 Ap '25

COAL
Adiabatic method for studying spontaneous heating of coal. J. D. Davis and J. F. Byrne. diag Am Cer Soc J 7:809-16 N '24
A.I.M.E. will canvass question, "What is coal?" Coal Age 27:152-3 Ja 22 '25
Banded bituminous coal; studies in the composition of coal. F: V. Tideswell and R: V. Wheeler. Chem Soc J 127:110-12 Ja '25
Beating out the coal man; burning buckwheat coal in domestic furnaces. C: H. Winter. Am Ind 25:34-5 N '24
Behandlung und verfeuerung minderwertiger brennstoffe. Zeit Ver Deutsch Ing 69:600 My 2 '25
Bituminous coal as generator fuel. G. H. Smith. il Am Gas J 122:503-4+ Je 13 '25
Buckwheat coal burning campaign. Sanitary & Heat Eng 103:127 F 20 '25
Burning low-priced coals in heating boilers. il Heat & Ven 21:60-1 S '24
Catechism of central station gas engineering in the United States. Am Gas J 120:11-14, 35-8 Ja 5-12 '24
Central district bituminous coals as water-gas generator fuel. W. W. Odell and W. A. Dunkley. diags U S Bur Mines Bul 203:1-92 '24
Coal, a field invaded by oil, making progress in regaining lost ground. L. E. Smith. Nat Pet N 17:61-3 F 11 '25
Coal and allied subjects. F. S. Sinnatt and others. 204p H. F. & G. Witherby, London '22
Coal and civilization. E: C: Jeffrey. 178p Macmillan '25
Coal and coal tar. Sci Am 130:390+ Je '24
Coal and coke symposium held by the American institute of mining and metallurgical engineers at its winter meeting. Coal Age 27:364-5 Mr 5 '25
Coal as an aid in oil exploration. E. R. Lilley. maps Eng & Min J 117:1009-12 Je 21 '24
Coal as an industrial fuel. D. J. Demorest. Chem & Met Eng 32:274-6 F 16 '25
Coal industry. A. T. Shurick. 383p Little, Brown & co., Boston '24
Coal; its formation, composition, combustion and economical use. C. A. Burton. Am Soc Heat & V E J 31:247-53 Ap '25
Coal—its intelligent use or ignorant abuse? Gas J (Lond) sup 4:22-3, 33 Ja 28-F 25 '25
Coal resources of the Americas. B: Le R. Miller. 24p Pan American union, Washington '23
Coal versus oil. E. F. Miller. Power 59:621 Ap 15 '24
Coking and swelling constituents of coal. F. Fischer. il Ind & Eng Chem 17:707-11 Jl '25
Combustion in the power plant. T: A. Marsh. 255p Van Nostrand '24
Combustion problems analyzed. T: A. Marsh. Can Eng 45:567-8 D 11 '23
Constitution and origin of coal. R. V. Wheeler. Coal Age 27:649-50 Ap 30 '25
Constitution of coal. W: A. Bone. Soc Chem Ind J 44:291-8 Je 19 '25; Abstract. Chem Age (Lond) 12:358 Ap 11 '25; Discussion. 44:298-9 Je 19 '25
Control of power production. C: L. Hubbard. il Factory 33:805-8+ D '24
Co-ordination of fuel supplies. E. W. Smith. Gas J (Lond) 167:455-7 Jl 30 '24
Determination of temperature of plasticity of coals. C. E. Foxwell. Ind & Eng Chem 17: 1161 N '25

COAL—*Continued*

Determination of temperatures of plasticity, maximum pressures, and solidification of coking coals. E. T. Layng and W. S. Hathorne. diags Ind & Eng Chem 17:165-7 F '25

Does size affect coal weight? Power 61:74 Ja 13 '25

Economy in the generation and utilisation of steam. C: F. Wade. Soc Chem Ind J (Chem & Ind) 43:1098-1100 N 7 '24

Efficiencies in the use of bituminous coking coal as water-gas generator fuel. W. W. Odell. diags U S Bur Mines Tech Pa 274:1-39 '23; Abstracts. Am Gas Assn Technical sec v 6:759-65 '24; Am Gas J 120:117-19+ F 9 '24

Fallacy of oil as a general fuel. R. B. Williams. Am Gas J 123:28+ Jl 11 '25

Fertilizer from coal. R. Stewart. Manuf Rec 87:71-3 Ap 23 '25

Fuel—and power costs. F. Juraschek. il diags Ind Management 69:225-31 Ap '25

Fuel oil characteristics and advantages as compared with coal. A. P. Bjerregaard. Nat Pet N 15:32a-b O 17 '23; Same. Gas Age 52:649-50 N 24 '23

Fuel oil or coal for steam generation. F. H. Daniels. Power 59:463-4 Mr 18 '24

Further researches on the various types of pyrites in coal, especially in relation to spontaneous combustion. J. Lomax. Gas J (Lond) 170:656 Je 3 '25

Giant power and coal. M. L. Cooke. Ann Am Acad 111:212-18 Ja '24

La houille et sa valeur comme combustible; abstract. F. Starke. Chimie & Ind 11:490-2 Mr '24

L'humus végétal et son dosage par la pyridine; relations chimiques entre les matières humiques et la houille. M. Piettre. Chimie & Ind 11:880-5 My '24

Influence of the ash constituents in the carbonization and gasification of coal, with special reference to nitrogen and sulphur. C. B. Marson and J. W. Cobb. bibliog Gas J (Lond) 171:39-45; Discussion. 45-6 Jl 1 '25

Inorganic constituents of coal; the melting point of coal ash. N. Simpkin and F. S. Sinnatt. diags Soc Chem Ind J 44:197-200 My 1 '25

International conference on power problems; coal conservation. Chem Age (Lond) 11:37-8 Jl 12 '24

Latent energy of coal. S. Lacey. Gas J (Lond) sup 3:212-13; Discussion. 213-14 N 26 '24

Microscopical structure of anthracite. H. G. Turner. 21p Lehigh univ., Bethlehem, Pa. '25

Miscellaneous analyses of foreign coals. U S Bur Mines Rep of Invest 2708:1-2 S '25 (typew)

National economy in the use of coal. O. Evans. Gas J (Lond) 170:375-6 My 6 '25

On fusain and its oxidation; studies in the composition of coal. F: V. Tideswell and R: V. Wheeler. Chem Soc J 127:125-32 Ja '25

Operating experiences and results obtained with use of bituminous coal as generator fuel in eleven foot sets. W. J. Murdock. Am Gas J 120:338-40, 351-7 Ap 12 '24; Same, without tables. Gas Age 53:555-61 Ap 26 '24; Same abr. Am Gas Assn Technical sec v 6:766-76; Discussion. 891-9 '24

Outstanding developments in fuel engineering and research during 1924. H. W. Brooks. Mech Eng 47:145-7 F '25; Same. Gas Age 55:265-6 F 21 '25

Oxidation of banded bituminous coal at low temperatures; studies in the composition of coal. W. Francis and R: V. Wheeler. il Chem Soc J 127:112-25 Ja '25

Plant cuticles; modern plant cuticles; studies in the composition of coal. V. H. Legg and R: V. Wheeler. il Chem Soc J 127:1412-21 Je '25

Power plant chemistry; abstract. W. M. Miles. Elec R (Lond) 94:1060-1; Discussion. 1061-2 Je 27 '24

Power plant management; what management should know about coal. R. June. Concrete 24:sup93-6 Je '24

Program for using bituminous coal. Chem & Met Eng 32:348 Mr '25

Rational application of coal. Gas J (Lond) sup 4:150 Jl 29 '25

Regional service of coal. O. P. Hood. map Am Gas Assn Technical sec v 5:921-5 '23

Relation of boiler equipment to coal buying. D. Henderson. Power Pl Eng 29:473-5 My 1 '25

Relative rate of growth shows further inroads of oil on coal consumption. F. G. Tryon, W. F. McKenney and E. E. Finn. Coal Age 27:91-4 Ja 15 '25

Reports of tests by different gas companies on use of bituminous coal. Am Gas Assn Technical sec v 6:785-805 [bibliog. p. 805] '24

Results obtained with a Southwest coal. diag Power Pl Eng 29:889-90 S 1 '25

Selection, preparation and carbonization of coal and preparation of coke. A. W. Grant, jr. Am Gas Assn Technical sec v 6:957-70 '24; Same, without table. Gas Age 54:583-8 O 25 '24; Same cond. Am Gas J 121:1038-40 O 16 '24

Small size anthracite fuel and equipment for its economical utilization. C. A. Connell. Am Soc Heat & V E J 31:167-70; Discussion. 170-4 Mr '25

Small-sized anthracite the key to the hard coal fuel conservation problem. Heat & Ven 22:56-8 S '25

Some facts coal buyers will find worth knowing. C. C. Hermann. Power 60:407 S 9 '24

Some observations on the transition of coal to coke. E. Sinkinson. diags Ind & Eng Chem 17:27-31 Ja '25

Specific gravity and ash content of coal. T. J. Drakeley and J. R. I. Hepburn. Soc Chem Ind J 43:277-8 Ag 22 '24

Specific heat of coal and its relation to composition. G. Coles. diags Soc Chem Ind J 42:435-9 N 16 '23

Spontaneous combustion of coal. J. I. Graham. Soc Chem Ind J 43:79-87 Ap 4 '24

Spontaneous combustion of coal. M. C. C. Stopes and R: V. Wheeler. 125p Colliery guardian co., ltd., London '23

Steam sizes of anthracite coal. Power 61:102 Ja 20 '25

Study of the resins in western coal. H. K. Benson. Ind & Eng Chem 17:21-3 Ja '25

Sur l'oxydation des houilles et de leurs extraits naphtaléniques. M. Oswald and R. Pinta. Chimie & Ind 13:548-51 Ap '25

Sur le traitement des houilles par la naphtaline. M. Oswald and R. Pinta. diag Chimie & Ind 12:415-22 S '24

Use of bituminous coal as generator fuel. L. L. Gilliland. Gas Age 55:641-2+ My 2 '25

Use of bituminous coal as generator fuel. H. S. Parker. Gas Age 55:899-900 Je 27 '25

Use of bituminous coal as generator fuel in plants of the United gas improvement co. H. K. Seeley. Am Gas Assn Technical sec v 6:777-84 '24

Utilisation of low-grade and waste coals in power production. W. S. Coates. diags Soc Chem Ind J 43:157-63; Discussion. 163 My 23 '24

Wesen und verwertbarkeit der kohlen. H. Tropsch. il Zeit Ver Deutsch Ing 69:899-903 Jl 4 '25

What about the coal situation? W: M. Carpenter. il chart map Gas Age 52:271-4+ Mr 8 '24

What becomes of the energy contained in a ton of coal. il Sci Am 132:169 Mr '25

What one pound of coal could do. diags Power 61:803 My 19 '25

Why buckwheat bucks. H. W. Pfeffer. Heat & Ven 21:59-60 S '24

See also Bergius process; Briquetting (fuel); Clinkers; Coal ash; Coal distillation; Coal lands; Coal mines and mining; Coal preparation; Coal storage; Coal supply; Coal-tar products; Coal trade; Coaling; Coaling stations; Coalite; Coke; Fuel economy; Gas; Lignite; Locomotives—Fuel; Railroads—Fuel; Trent amalgam

COAL—*Continued*

Analysis

L'analyse du charbon au moyen des rayons X. C. N. Kemp. il diags Chimie & Ind 12: 233-49 Ag '24

Analyses of British coals and coke. J. V. Elsden and J. Griffiths. 4th ed. 293p Colliery guardian co., ltd., London '24

Analyses of Ohio coals. map U S Bur Mines Tech Pa 344:1-40 '23

Analyses of samples of delivered coal. N. H. Snyder. U S Bur Mines Bul 230:1-174 '23

Calculation of heat lost in flue gas. N. T. Bourke. chart Power Pl Eng 29:230-1 F 15 '25

Can the Valley coal fields of Virginia compete with those of the anthracite region? il Coal Age 25:269-71 F 21 '24

Dividing the state of Pennsylvania into areas having coal of equal volatile content. map Coal Age 26:403-6 S 18 '24

Empirical relations for coals in the United States. F: C. Evans. Sibley J 38:160-7, 188-95, 217-27 O-D '24

Examination of the banded constituents of a Derbyshire coal. H. D. Greenwood. Soc Chem Ind J 43:363-5 D 26 '24

How to separate nitrogen from coal; how nature devolatilizes peat bogs. il Coal Age 27:399-400 Mr 12 '25

Inorganic constituents of coal. R. Lessing. Soc Chem Ind J 44:277-83 Je 12 '25; Abstract. Mech Eng 47:749-50 S '25

Inorganic constituents of some New Zealand coals. H. O. Askew. Soc Chem Ind J 44:276 Je 5 '25

Interim report on methods of analysis of coal. Engineering 116:626-7 N 16 '23; Gas J (Lond) 164:638 D 5 '23

Microstructure of a coal seam. Engineering 119:804 Je 26 '25

New Zealand brown coals; some leaching experiments with Avoca, Mossbank, and Coal Creek Flat coals. L. R. Dunn. Soc Chem Ind J 44:274-5 Je 5 '25

Oxidation of banded bituminous coal at low temperatures; studies in the composition of coal. W. Francis and R: V. Wheeler. il Chem Soc J 127:112-25 Ja '25

Pressure and the elucidation of the chemical constitution of coal. R. Quarendon. bibliog Soc Chem Ind J (Chem & Ind) 44:676-9 Jl 3 '25

Process for sulfur in coal; lead oxide-reduced iron-iodate method. W: J. G. Meade. diag Ind & Eng Chem 17:497 My '25; Same. Gas Age 55:770 My 30 '25

Uniform coking coal is needed; abstracts. W. Mathesius. Iron Tr R 74:1422-4 My 29 '24; Iron Age 113:1695-6 Je 5 '24

Volatile matter and ash contents of samples of coal from the same seam. T. J. Drakeley and J. R. I. Hepburn. Soc Chem Ind J 43: 134-7 My 2 '24

X-ray analysis of coal, and a new X-ray examining unit. C. N. Kemp. Soc Chem Ind J 43:234-6 Jl 18 '24; Abstract. Iron Age 114: 384 Ag 14 '24

See also Coke—Analysis

Classification

Classification of coal that will enable buyer to know what kind of fuel he is getting. G: H. Ashley. il Coal Age 25:167-71 Ja 31 '24

Cost

Coal much cheaper than oil, plant's figures show. Coal Age 27:48 Ja 8 '25

Comparing oil fuel and coal costs. W. F. Schaphorst. chart Eng & Min J 117:407-8 Mr 8 '24

Oil is cheaper than coal in home heating considering all costs. Nat Pet N 17:71+ Ja 14 '25

Geology

At what heat was anthracite formed? Coal Age 25:906 Je 19 '24

Chemical compounds in coal-forming bogs same in all geologic ages. D: White. Coal Age 27:537 Ap 9 '25

Coal deposits and how they were formed. H. H. Wuestner. Power 61:526-8 Ap 7 '25

Dried peat on top of bog by resisting microbes formed mother of coal. D: White. Coal Age 27:254 F 12 '25

Geology of the coal fields. E. M. Spieker. map U S Bur Mines Tech Pa 345:13-22 '25

Geology of the Tullock Creek coal field, Rosebud and Big Horn counties, Montana. G. S. Rogers and W. Lee. il U S Geol S Bul 749: 1-181, pl 1-16 '23

How to separate nitrogen from coal; how nature devolatilizes peat bogs. il Coal Age 27:399-400 Mr 12 '25

Investigators gradually unfold origin and present nature of coal. il Coal Age 27:319-23 F 26 '25

Origin of the boghead coals. R. Thiessen. U S Geol S Prof Pa 132—I:121-35, pl 27-40 '25

Relation between isocarbs and oil and gas production in Kentucky. W: L. Russell. diag map Econ Geol 20:249-60 My '25

Why coal has cleat and the way in which it runs. E. S. Moore. diags map Coal Age 27: 576-8 Ap 16 '25

See also Coal balls

Moisture content

Absorption of moisture by coal and other fuels. B. Moore. Soc Chem Ind J 44:200-5 My 1 '25

Coal from the mine to the boiler. J. M. Spitzglass. Power 62:527-9 O 6 '25

How to determine moisture content of coal with simple device. diag Coal Age 27:573 Ap 16 '25

What happens to moisture when it enters the furnace? Power 58:468-9, 700-1, 743, 1001 S 18, O 30-N 6, D 18 '23

See also Coal—Analysis

Prices

Are captive mines on the increase? E. W. Davidson. diags Coal Age 25:73-6 Ja 17 '24

Coal and coke production and prices. L: H. Haney. Iron Age 116:292+, 620+, 896+ Jl 30, S 3, O 1 '25

Factors in the premium price of anthracite. Monthly Labor R 21:511-15 S '25

Fluctuations in the prices of engineering materials during 1923. Engineer 137:25 Ja 4 '24

Freight rates and prices of anthracite. Ry Age 79:361-2 Ag 22 '25

Mail order competition jars coal retailers. Coal Age 27:952 Je 25 '25

Markets and production in 1923 and forecasts. diags Coal Age 25:87-103 Ja 17 '24

Markets and production in 1924 and forecasts. Coal Age 27:103-22 Ja 15 '25

Price of coal, anthracite and bituminous. C. L. King, editor. charts diags Ann Am Acad 111:1-387 Ja '24

Price trend for year, 1923, monotonously downgrade. Coal Age 25:66 Ja 17 '24

Prices so low in 1924 union mines could not meet them. Coal Age 27:66 Ja 15 '25

Production and the market. Published in weekly numbers of Coal age

Re-drafting coal's schedule of prices. G: H. Cushing. Min Cong J 11:23-4 Ja '25

Report of the Federal trade commission on premium prices of anthracite. 97p U.S. Federal trade commission, Washington, D.C. '25; Excerpt. Comm & Fin Chr 121:154 Jl 11 '25

Retail prices of coal in the United States. Published in monthly numbers of Monthly labor review

Spot coal prices for 18 years: what they reveal. F. G. Tryon and W. F. McKenney. diags Coal Age 25:82-4 Ja 17 '24

Symposium by the National academy of political science on the price of coal. Coal Age 24:789-90 N 22 '23; Power 58:867-8 N 27 '23

Standards

Anthracite trade near accord on uniform standards. Coal Age 27:436 Mr 19 '25

Industry to standardize anthracite. Am Ind 25:19-20 My '25

COAL—Standards—*Continued*
New anthracite standards established. Min Cong J 11:171 Ap '25

Sulfur content

Brown coals of New Zealand; organic sulphur as a factor in determining the rank of a lignitic coal. W. P. Evans. Soc Chem Ind J 44:258 My 22 '25
Carbon bisulphide in coal gas. G. Griffiths. Gas J (Lond) 169:611-13 Mr 11 '25
New Zealand brown coals; low- and medium-temperature carbonisation experiments with typical high-sulphur and low-sulphur coals. J. A. Gilman and W. P. Evans. diags Soc Chem Ind J 44:263-5 My 29 '25
Oxidation of sulfur as a factor in coal storage. S. W. Parr and E. R. Hilgard. il Ind & Eng Chem 17:117-18 F '25
Process for sulfur in coal; lead oxide-reduced iron-iodate method. W: J. G. Meade. diag Ind & Eng Chem 17:497 My '25; Same. Gas Age 55:770 My 30 '25
Sulphur as an index to ash fusibility. J. A. Murray. Power 59:561 Ap 8 '24
Sulfur forms in coal—distribution and control. H. F. Yancey and S. W. Parr. il Ind & Eng Chem 16:501-8 My '24
Sulphur in coal or coke. Cassier's Ind Management 11:337-8 Je '24

Taxation

Coal reserve and taxes. G: H. Cushing. Min Cong J 10:31-2 Ja '24
Taxes in Logan county, W. Va., are sore problem to coal men. Coal Age 28:182 Ag 6 '25
Your taxes may be much reduced if higher than those of companies having like earnings. G: C. Williams. Coal Age 25:316-19 F 28 '24

Testing

Ash softening temperatures and clinkering of coals in a boiler furnace. J. F. Barkley. U S Bur Mines Rep of Invest 2630:1-3 Ag '24 (typew)
Carbonization yields from run of mine, slack and +¾″ coals. D. J. Demorest. Am Gas J 119:347-9 O 16 '23; Same. Am Gas Assn Technical sec v 5:948-51; Discussion. 1041-6 '23
Classification and testing of coal. C. H. Chester. il diags Gas J (Lond) 164:517-21; Discussion. 521-2 N 21 '23
Coal testing. S. M'Gowan. Gas J (Lond) 169: 408-10 F 18 '25
Coal testing by the X-ray. Am Gas J 122:131 F 7 '25
Corrosion of monel metal calorimeter bombs. J. C. Geniesse and E. J. Soop. Ind & Eng Chem 17:1197-9 N '25
Decomposition of anthracite coal. F. Hinden. Am Gas J 122:159, 169-71 F 21 '25
Float-and-sink method and apparatus for testing coarse-size coal. E. R. McMillan and B. M. Bird. U S Bur Mines Rep of Invest 2570:1-12 F '24 (typew)
Float-and-sink test for fine coal. B. M. Bird and H. E. Messmore. U S Bur Mines Rep of Invest 2586:1-4 Mr '24 (typew)
Loss of heating value of bituminous coal on exposure to air. J. F. Byrne and J. D. Davis. diags Ind & Eng Chem 16:775-8 Ag '24
Relative plant values of coal. K. M. Holaday. Elec W 84:363-5 Ag 23 '24
South Wales gas coal. Engineering 119:18 Ja 2 '25
Tests on run-of-mine versus three-quarters inch coal for carbonization. F. D. Lohr and A. M. Beebee. Am Gas Assn Technical sec v 6:1084-90 '24; Excerpts. Am Gas J 121: 1075-7 O 17 '24
Thermal efficiency of power stations. R. H. Parsons. Engineering 119:93-4, 153-4 Ja 23, F 6 '25; Discussion. A. C. Dunningham. 119: 204 F 13 '25
Use of Illinois coal with the Pier process. M. P. Novak. diags Gas Age 55:441-4 Mr 28 '25
Valuation and testing of gas coals. F. J. Jackson. Gas J (Lond) 169:215-17 Ja 28 '25; Discussion. 169:611 Mr 11 '25
Your customer's coal pile—how you can help him to conserve it. E. W. Riesbeck. Dom Eng 113:20+ O 17 '25

See also Coal—Analysis

Transportation

Calculating a rate for coal. M. J. Butler. Can Eng 45:607-8 D 25 '23; Discussion. R. A. C. Henry. 46:105-6 Ja 1 '24
Coal freight-rate decisions made and pending point path to normality. W. P. Ellis. Coal Age 25:85-6 Ja 17 '24
Coal industry hopes for rate decisions assuring reasonable permanency. W. P. Ellis. Coal Age 27:98-102 Ja 15 '25
Coal mine rating rules continued. Ry Age 78: 410-12 F 14 '25
Coal storage and the railroads. R. H. Aishton. il Management & Adm 8:473-4 N '24
Freight rate on Alberta coal. W. T. Jackman. Can Eng 46:173 Ja 22 '24
How about coal traffic? Ry Age 78:918-19 Ap 11 '25
I.C.C. aids smokeless coal to compete with anthracite in Northeast. S. A. Hale. Coal Age 28:256-7 Ag 20 '25
Inter-state commerce commission orders lower freight rates in East on anthracite coal substitutes. Comm & Fin Chr 121:801-2 Ag 15 '25
Mine rating rules based on ability to sell coal proposed. Ry Age 76:880 Ap 5 '24
Northwestern coal rates once more in turmoil. Coal Age 27:403 Mr 12 '25
Railway rates on bituminous and anthracite coal. C: Reitell. Ann Am Acad 111:155-64 Ja '24
Railway rates on coal. Gas J (Lond) 165:502-3 F 27 '24
Relation of the Ohio river and its tributaries to transportation in the United States. C. W. Kutz. Am Soc C E Pro 51:1642-58 O '25
Southern Pacific makes new record in coal loadings. Ry R 75:217 Ag 9 '24
Testimony completed in assigned-car rehearing; oral argument set for Dec. 17-19. Coal Age 24:713 N 8 '23
Will Midwest rivers reduce cost of Illinois coal to Chicago and Northwest consumers? il Coal Age 25:246-7 F 14 '24

See also Coal cars; Coal handling

Alabama

Coal seams of Alabama—their output, analyses, ash-fusing point and geologic structure. M. H. Fies. map Coal Age 26:473-8 O 2 '24

See also Coal mines and mining—Alabama

Alaska

Cold Bay-Chignik district, Alaska. W. R. Smith and A. A. Baker. U S Geol S Bul 755—D:211-18 '24
Reconnaissance of the Point Barrow region, Alaska. S. Paige, W. T. Foran and J. Gilluly. diags U S Geol S Bul 772:26-33, pl 8-9 '25

Alberta

Alberta research council solving province's coal problems. map Coal Age 27:226-7 F 5 '25
Chemical survey of Alberta coal. E. Stansfield. Can Chem & Met 9:85-6 Ap '25
Coal transportation problems; Alberta coal with regard to the Ontario market. C. W. Peterson. Can Eng 48:582 Je 16 '25
Report on Alberta coal. Can Eng 46:135 Ja 8 '24

See also Coal mines and mining—Alberta

Belgium

Le bassin houiller du nord de la Belgique. Génie Civil 84:46 Ja 12 '24
Esquisse géologique des bassins houillers belges. Cornet. Soc Ing Civils Bul 76:1094-1101 O '23

See also Coal miners—Belgium; Coal mines and mining—Belgium

COAL—*Continued*

Canada

Alberta seeks to fill the coal bins of Canada. M. D. Geddes. il Coal Age 25:867-71 Je 12 '24

New developments in Canadian fuels. B. F. Haanel. Paper 33:8-10 F 7 '24

Review of the fuel problem in Canada. C: Camsell. Can Eng 46:345-7 Mr 18 '24

See also Coal—Alberta; Coal supply—Canada; Coal trade—Canada

China

Preliminary report on some coals from Sze Chuan, China. G: D. Hubbard. map Econ Geol 19:641-50 N '24

Colorado

Geology and coal resources of the Axial and Monument Butte quadrangles, Moffat county, Colorado. E. T. Hancock. diags map U S Geol S Bul 757:1-134, pl 1-19 '25

Output and value of coal from Colorado mines in 1923. Coal Age 26:443 S 25 '24

Yampa field may provide West with hard coal. Coal Age 26:870 D 18 '24

France

Les phénomènes de charriage dans le bassin du Gard; extension du gisement houiller au sud d'Alais. diag Génie Civil 85:239-40 S 13 '24

See also Coal miners—France; Coal mines and mining—France; Coal supply—France; Coal trade—France

Germany

Bayerns kohlenschätze und die aussichten ihrer verwertung. H. Fromm. map Zeit Ver Deutsch Ing 69:573-6 Ap 25 '25

Coal production and consumption in Germany. Economist 98:1196 Je 14 '24

See also Coal mines and mining—Germany; Coal supply—Germany; Coal trade—Germany

Idaho

Idaho coal good but quite friable. Coal Age 27:430 Mr 19 '25

Illinois

Cleaning tests of central Illinois coal. T: Fraser and H. F. Yancey. U S Bur Mines Tech Pa 361:1-23 '25

Output and value of coal from Illinois mines in 1923. Coal Age 26:480 O 2 '24

Structure of Herrin (no. 6) coal seam near Duquoin. D. J. Fisher. 34p Illinois. State geol. survey, Urbana '25

See also Coal mines and mining—Illinois

Indiana

Output and value of coal from Indiana mines in 1923. Coal Age 26:624 O 30 '24

See also Coal mines and mining—Indiana

Iowa

Output and value of coal from Iowa mines in 1923. Coal Age 26:553 O 16 '24

Kentucky

Output and value of coal from Kentucky mines in 1923. Coal Age 26:518 O 9 '24

See also Coal miners—Kentucky; Coal mines and mining—Kentucky

Missouri

Output and value of coal from Missouri mines in 1923. Coal Age 26:767 N 27 '24

Montana

Geology of the Tullock Creek coal field, Rosebud and Big Horn counties, Montana. G. S. Rogers and W. Lee. il U S Geol S Bul 749:1-181, pl 1-16 '23

Output and value of coal from Montana and New Mexico mines in 1923. Coal Age 27:18 Ja 1 '25

Rosebud field in Montana wins new attention. T: E. Smith. il Coal Age 28:249-50 Ag 20 '25

See also Coal mines and mining—Montana

New Mexico

Coal resources of the Raton coal field, Colfax county, New Mexico. W. T. Lee. il diags maps U S Geol S Bul 752:1-254, pl 1-22 '24

Output and value of coal from Montana and New Mexico mines in 1923. Coal Age 27:18 Ja 1 '25

New Zealand

Inorganic constituents of some New Zealand coals. H. O. Askew. Soc Chem Ind J 44:276 Je 5 '25

New Zealand brown coals. W. O. R. Gilling and others. diags Soc Chem Ind J 44:259-66 My 29 '25

New Zealand brown coals; preliminary examination of a coal resin from Central Otago. L. H. James. Soc Chem Ind J 44:241-2 My 15 '25

New Zealand brown coals; some leaching experiments with Avoca, Mossbank, and Coal Creek Flat coals. L. R. Dunn. Soc Chem Ind J 44:274-5 Je 5 '25

North Carolina

Deep River coal field of North Carolina. M. R. Campbell and K. W. Kimball. North Carolina Geol. survey, Chapel Hill '23

See also Coal mines and mining—North Carolina

Ohio

Analyses of Ohio coals. map U S Bur Mines Tech Pa 344:1-40 '23

Coal formation clays of Ohio. W. Stout and others. (4th ser., bul. 26) 588p Ohio Geol. survey, Columbus '23

Output and value of coal from Ohio mines in 1923. Coal Age 26:840 D 11 '24

Oklahoma

Output and value of coal from Oklahoma, Utah, Virginia and Washington mines in 1923. Coal Age 27:94 Ja 15 '25

Pennsylvania

Deposit of double-thick upper Freeport coal situated in the valley of the Allegheny river in Allegheny, Butler and Westmoreland counties, Pennsylvania. J. M. Rayburn. diags map Eng Soc W Pa 40:27-38; Discussion. 39-44 F '24

Dividing the state of Pennsylvania into areas having coal of equal volatile content. map Coal Age 26:403-6 S 18 '24

How much coal is left in Pennsylvania? O. R. Kuhn. map Coal Age 27:209-14 F 5 '25

Pennsylvania coals suited to baking, but need is not obvious. Coal Age 25:319 F 28 '24

Production of anthracite in 1923, by counties and fields. Comm & Fin Chr 120:646-7 F 7 '25

See also Coal miners—Pennsylvania; Coal mines and mining—Pennsylvania

Tennessee

Output and value of coal from Tennessee and Texas mines in 1923. Coal Age 27:257 F 12 '25

Texas

Output and value of coal from Tennessee and Texas mines in 1923. Coal Age 27:257 F 12 '25

United States

Analyses of samples of delivered coal. N. H. Snyder. U S Bur Mines Bul 230:1-174 '23

Coal in 1919, 1920 and 1921. F. C. Tryon and S. A. Hale. U S Geol S Min Res of U S 1921, pt 2:445-662 '23

Empirical relations for coals in the United States. F: C. Evans. Sibley J 38:160-7, 188-95, 217-27 O-D '24

Estimated coal output in 1924 by states, compared with 1921, 1922 and 1923. Coal Age 27:294 F 19 '25

Monthly bituminous coal output in the United States in 1923 by states. Coal Age 26:623 O 30 '24

COAL—United States—*Continued*
Production of coal in 1924 by states. Comm & Fin Chr 120:766-7 F 14 '25
Recent coal production returns. Bradstreet's 53:562 Ag 29 '25

See also Coal miners—United States; Coal mines and mining—United States; Coal supply—United States; Coal trade—United States

Utah

Analyses of Utah coals. U S Bur Mines Tech Pa 345:1-90 '25
Output and value of coal from Oklahoma, Utah, Virginia and Washington mines in 1923. Coal Age 27:94 Ja 15 '25

See also Coal mines and mining—Utah

Virginia

Can the Valley coal fields of Virginia compete with those of the anthracite region? il Coal Age 25:269-71 F 21 '24
Output and value of coal from Oklahoma, Utah, Virginia and Washington mines in 1923. Coal Age 27:94 Ja 15 '25
Valley coals of Virginia present unusually difficult operating conditions. maps Coal Age 25:311-15 F 28 '24

See also Coal mines and mining—Virginia

Wales

In its coal era, South Wales was folded, like Pennsylvania, in two directions. R. D. Hall. Coal Age 25:466 Mr 27 '24

See also Coal mines and mining—Wales

Washington (state)

Geological investigation of the coal fields of Skagit county, Washington. O. P. Jenkins. 63p Washington geol. survey, Olympia '24
Geological investigation of the coal fields of western Whatcom county, Washington. O. P. Jenkins. 135p Washington Dept. of conservation and development, Olympia '23
Output and value of coal from Oklahoma, Utah, Virginia and Washington mines in 1923. Coal Age 27:94 Ja 15 '25

West Virginia

Limitations and eccentricities of the Beckley coal bed and how best to offset them. C. R. Stahl. il diags map Coal Age 25:485-9 Ap 3 '24
Output and value of coal from West Virginia mines in 1923. Coal Age 27:46 Ja 8 '25

See also Coal miners—West Virginia; Coal mines and mining—West Virginia

Wyoming

Output and value of coal from Wyoming mines in 1923. Coal Age 27:126 Ja 15 '25

COAL, Atomized
Atomized coal for nonferrous melting, said to eliminate porosity. R. Black and C. L. Shafer. Brass W 21:353-4 O '25; Same. Metal Ind 23:403-4 O '25

COAL, Pulverized
Betriebsuntersuchungen an kohlenstaubbeheizten blockwärmöfen. A. Weyel. diag Stahl & Eisen 44:977-9 Ag 14 '24
Boiler operation at high ratings. H. A. Reichenbach. il diags Blast F & Steel Pl 12:354-9 Ag '24
Le chauffage au charbon pulvérisé d'un four poussant à billettes. il plan Génie Civil 84: 621-3 Je 28 '24
Chemistry of combustion of pulverized coal. S. C. Martin. diag Power Pl Eng 29:1091-2 N 1 '25
Coal as an industrial fuel. D. J. Demorest. Chem & Met Eng 32:276 F 16 '25; Discussion. C. F. Herington. 32:388-9 Mr '25
Coal carbonization as applied to power plant practice. V. Z. Caracristi. diags Power 57: 831-6 My 29 '23; Same. Am Gas J 119:65-9, 76-8 Jl 28 '23; Same, with table. Can Eng 46:109-14 Ja 1 '24; Abstract. Gas J (Lond) 64:534 Ag 15 '23
Commercial aspects of pulverized fuel. A. J. T. Taylor. Can Eng 49:173-6 Jl 28 '25
Developments in the use of pulverized coal. C: Longenecker. diags Power Pl Eng 28: 127-30 Ja 15 '24
Electricity supply at St Louis, U.S.A.; the new Cahokia pulverised-fuel power station. il diag plan Elec R (Lond) 95:25-7 Jl 4 '24
Étude expérimentale de la combustion de charbon pulvérisé. R. Robinot-Marcy. diags Génie Civil 84:231-4 Mr 8 '24
Factors in the choice of a combustion system. E. B. Ricketts. Power Pl Eng 27:1194-6 D 1 '23; Discussion. S. Martin. 28:201-2 F 1 '24
Fineness of pulverized coal. W. J. Risley, jr. Power 62:618 O 20 '25
Fire precautions for pulverized fuel plants. Power Pl Eng 28:641-3 Je 15 '24
Fuels and combustion. Power 61:9-12 Ja 6 '25
Furnace volume comparisons. J. G. Coutant. diags Blast F & Steel Pl 13:156-8 Ap '25
Hazards of pulverized-fuel systems. H. E. Newell and R. Palm. Mech Eng 46:783-4 pt 2 N '24; Same. Nat Safety N 10:29-30 D '24; Same. Engineering 119:25-6 Ja 2 '25; Excerpts. Power 60:847-8 N 25 '24
Malleable furnace fired with pulverized coal. W. Hathaway. il Foundry 53:824-8+ O 15 '25
Mechanical gas. il Sci Am 132:312-13 My '25
Metropolitan section A.S.M.E. discusses powdered coal. Power Pl Eng 27:1260-1 D 15 '23; Power 58:868-9 N 27 '23
New method of pulverized coal firing of forge furnace. C: I. Filson. Power Pl Eng 29:916 S 1 '25
Powdered coal. E. W. Riesbeck. il Dom Eng 111:16-20 My 16 '25
Powdered coal as an industrial fuel. A. J. T. Taylor. Can Eng 46:164 Ja 22 '24
Powdered coal for locomotive shop. C: Longenecker. il diags Iron Age 113:565-9 F 21 '24
Powdered coal for steam raising. Engineering 116:747-8 D 14 '23; Discussion. 116:774, 813; 117:14 D 21 '23-Ja 4 '24
Powdered coal hazards. H. G. Jacobsen. Concrete 24:sup5-7 Ja '24; Same abr. Nat Safety N 9:25-6 Ja '24
Powdered-coal installation at the Baldwin locomotive works. C. C. Bailey. diags Mech Eng 47:932-3 N '25
Powdered coal, the modern industrial fuel. R. D. Donaldson. Paper Tr J 80:105-7 F 5 '25
Powdered fuel. Cassier's Ind Management 11: 47 Ja 24 '24
Pulverized and colloidal fuel. J. T. Dunn. 200p Van Nostrand '24
Pulverised coal. Elec R (Lond) 95:82-3, 163, 212 Jl 11, 25, Ag 8 '24
Pulverized coal. F. W. Dean. Textile World 64:2668+ N 3 '23; Abstract. Power 58:869 N 27 '23
Pulverized coal at Uxbridge mill. il diag Textile World 67:1077+ F 7 '25
Pulverized-coal boiler performance, Brunot Island power station. L. W. Heller. il diags Power 60:600-3 O 14 '24; Discussion. 60:854-5, 1030-1; 61:33; 62:258-9 N 25, D 23 '24, Ja 6, Ag 18 '25
Pulverised coal firing v. mechanical stokers. W. D. Wylde. Elec R (Lond) 94:723-4 My 2 '24; Discussion. 94:832, 946 My 23, Je 6 '24
Pulverized coal for malleable furnaces. il Iron Age 113:1633-5 Je 5 '24
Pulverized fired malleable furnaces. S. Westberg. diags Blast F & Steel Pl 13:46-7 Ja '25
Pulverized fuel. Blast F & Steel Pl 12:295-7 Je '24
Pulverised fuel; a practical handbook. W. F. Goodrich. 226p Van Nostrand '24
Pulverised fuel and efficient steam generation; abstracts. D: Brownlie. Elec R (Lond) 93:956-7 D 21 '23; Engineer 136:665 D 21 '23; Soc Chem Ind J (Chem & Ind) 42:1236-7; 43:66 D 21 '23, Ja 18 '24; Gas J (Lond) 165: 34 Ja 2 '24; Power 59:33 Ja 1 '24; Discussion. Elec R (Lond) 93:957-8 D 21 '23; Engineer 136:695-6; 137:14, 42, 68, 103, 128, 146 D 28 '23-F 8 '24
Pulverised fuel, colloidal fuel, fuel economy, and smokeless combustion. L. C: Harvey. 466p Macmillan '24

COAL, Pulverized—*Continued*
Pulverized fuel makes good showing. J. C. Hobbs. Power Pl Eng 28:248-9; Discussion. 249-50 F 15 '24
Pulverized fuel systems. A. L. Cole. il diags Power 59:900-5, 940-5, 985-8, 1022-7 Je 3-24 '24
Safety in the operation of pulverized-fuel systems; discussion. il Mech Eng 47:115-17 F '25
Smelting with pulverized coal. G. S. Guess. Can Eng 47:600 D 16 '24
Steam generation with pulverized fuel. Can Eng 47:343-4 S 16 '24
Terminal velocity of particles of powdered coal falling in air or other viscous fluid. J: Blizard. J Fr Inst 197:199-207 F '24
Tests of a powdered-coal plant. H: Kreisinger and others. diags U S Bur Mines Tech Pa 316:1-22 '23; Excerpts. Power Pl Eng 28: 334-5 Mr 15 '24
Unit system of pulverized coal. W. W. Clinedinst. diags Sibley J 38:197-9 N '24
Use of pulverized coal in open-hearth furnaces. R. H. Lowndes. Mech Eng 45:651-2 N '23; Same. Iron Age 112:1721-3 D 27 '23; Discussion. W. H. Fitch. 113:521-2 F 14 '24
Der verbrennungsvorgang in der kohlenstaubfeuerung. W. Nusselt. Zeit Ver Deutsch Ing 68:124-8 F 9 '24
What becomes of the ash with pulverized coal? H. D. Savage. Power 58:1007 D 18 '23
Zur kohlenstaubfrage. W. Schmitz. diag Stahl & Eisen 44:285-7 Mr 13 '24

See also Boilers—Pulverized coal firing; Boilers, Marine—Pulverized coal firing; Coal, Atomized; Coke, Pulverized

Distribution

Fuller-Kinyon system of conveying pulverized coal and other materials. il plan Cassier's Ind Management 11:103-6 F 21 '24
Pneumatic conveying of pulverized coal—blow-tank method. I. G. Coutant. diag Power 60: 215-16 Ag 5 '24
Pulverized-fuel systems. A. L. Cole. il diags Power 59:985-8 Je 17 '24

Oil mixtures

Oil-coal combination effects little economy in cement industry. Coal Age 27:681 My 7 '25

See also Trent amalgam

Preparation

Adopt powdered coal system. il Foundry 52: 667-70 S 1 '24
Application of pulverized fuel to the industrial plant. W. Edward. diags Power 61:784-7 My 19 '25
Bethlehem steel co. pulverizer. il Power 61: 747 My 12 '25
Clark thread co. installs pulverized-fuel equipment. il diags plan Power 60:714-19 N 4 '24
Coal pulverizing systems outlined at Cleveland section of A.S.M.E. Power 61:158-9 Ja 27 '25; Power Pl Eng 29:216-17 F 1 '25; Gas Age 55:221-2 F 14 '25
Control of power production. C: L. Hubbard. il diags Factory 34:68-71+ Ja '25
Drying of coal for pulverizing. H. W. Brooks. diags Power Pl Eng 29:422-3 Ap 15 '25
Features of unit pulverizers. Power Pl Eng 29:636-7 Je 15 '25
Good efficiency and high rating with unit-type pulverizers. J. G. Coutant. il Power 61:60-1 Ja 13 '25
Kennedy unit coal pulverizer. diag Power 62: 111 Jl 21 '25
Mechanical handling at River Rouge; power house fuel handling and the electric furnace building. M: W. Potts. il Ind Management 68:90 Ag '24
Powdered coal for small boiler plants. T. W. Atterbury. il diags Power Pl Eng 28:937-9, 996-9, 1048-50 S 15-O 15 '24
Powdered coal; its preparation and utilisation. R. Jackson. diags Engineering 117:381-3, 415-18 Mr 21-28 '24; Same cond. Engineer 137:179 F 15 '24
Power required for pulverising coal. R. H. Parsons. Elec R (Lond) 96:684-5 My 1 '25; Discussion. E. G. Ritchie. 96:808-9 My 22 '25
Preparation of pulverized coal. H. G. Barnhurst. Mech Eng 47:87-8 F '25; Same cond. Power Pl Eng 29:382-3 Ap 1 '25
Pulverized coal at Trumbull steel mills. il diags Iron Age 115:885-8 Mr 26 '25
Pulverised fuel for steam generation. Soc Chem Ind J (Chem & Ind) 43:459-60 My 2 '24; Gas J (Lond) 166:181 Ap 16 '24
Pulverized fuel systems. A. L. Cole. il diags Power 59:900-5, 940-5 Je 3-10 '24
Self contained pulverized coal unit. C. H. Tupholme. il Power Pl Eng 28:800-1 Ag 1 '24
Self-contained pulverising units. L. Harvey. Engineer 139:704 Je 26 '25
Unipulvo unit pulverizer by the Strong-Scott manufacturing co. il diag Power 62:621-2 O 20 '25
Unit coal-pulverizing plant and its operation. J. G. Coutant. diags Mech Eng 47:183-5 Mr '25
Unit pulveriser constructed with five states by the Grindle fuel equipment co. il diag Power Pl Eng 29:976 S 15 '25
Unit system for pulverized coal. S. C. Martin. il Power 60:726-7 N 4 '24
Unit system of pulverizing and burning coal. W. C. Heckeroth. il Power Pl Eng 29:993-5 O 1 '25
Unusual blast furnace boiler plant. G: G. Crawford. diags plan Blast F & Steel Pl 12:77-80 Ja '24

See also Coal drying; Pulverizers

Testing

Combustion tests with pulverized coal. Am Inst E E J 43:135 F '24
Determination of the fineness of powdered coal; abstracts. W. A. Selvig and W. L. Parker. Power 59:70 Ja 8 '24; Power Pl Eng 28:177-8 F 1 '24
Microscopic study of pulverized coal. L. V. Andrews. il Mech Eng 47:429-32 sec 2 My '25; Discussion. 47:822-4 O '25
Tentative method of test for fineness of powdered coal. Am Soc T M Pro 24 pt 1: 929-33 '24

COAL ash

Ash content of coal; its importance from the coke standpoint. K. Bunte. Am Gas J 122: 290+ Ap 4 '25
Clean coal; how to get it. R. H. Sweetser. il Iron Tr R 76:1445-7 Je 4 '25
Electromagnetic process for recovering coke and coal from ash. Elec W 83:1280 Je 21 '24
Feuerungsrückstände in grosskraftwerken. Ullrich. il Zeit Ver Deutsch Ing 69:845-6 Je 20 '25
Fuel recovery from pan ash; dry-magnetic separating system. il diag Gas J (Lond) 165: 200-1; 167:387-8 Ja 23, Jl 23 '24; Chem Age (Lond) 10:165 F 16 '24
Furnace ash as a refractory material. H. E. Weightman. il Power 62:557-60 O 13 '25
Furnace for the determination of the fusing point of coal ash. B. B. Kaplan. diags Ind & Eng Chem 16:847-8 Ag '24
Gas works ashes considered as a source of income. S. H. Bunnell. il Gas Age 53:901-2 Je 28 '24
How much ash is found in commercial anthracite? O. P. Hood. Coal Age 25:272 F 21 '24
Influence of ash constituents on the coking process. R. Lessing. bibliog Soc Chem Ind J 44:345-50 Jl 17 '25; Same. Gas J (Lond) 171: 541-3 S 2 '25
Influence of the ash constituents in the carbonization and gasification of coal, with special reference to nitrogen and sulphur. C. B. Marson and J. W. Cobb. bibliog Gas J (Lond) 171:39-45; Discussion. 45-6 Jl 1 '25
Inorganic constituents of coal; the melting point of coal ash. N. Simpkin and F. S. Sinnatt. diags Soc Chem Ind J 44:197-200 My 1 '25
Loss of combustible in the ash. Power 60:664 O 21 '24

COAL ash—*Continued*
Magnetic recovery of combustible in boiler plant refuse. R. Kudlich. U S Bur Mines Rep of Invest 2634:1-2 S '24 (typew); Excerpts. Power Pl Eng 28:1066 O 15 '24
Melting-point of coal ash. Gas J (Lond) 166: 844 Je 18 '24
Recovering fuel from ashes. S. H. Bunnell. il diag Iron Age 113:1368 My 8 '24
Recovering unburned fuel and other matter from ash. C. H. S. Tupholme. il diags Gas Age 53:679-82 My 17 '24
Recovery of fuel from ashes, &c.; a new plant working on the flotation principle. diag Gas J (Lond) 168:297 O 29 '24
Removing combustible matter from ash and separating tramp iron from coal. Elec R (Lond) 94:910-11 Je 6 '24
Some hints on coal analyses for clinkering temperatures. P. L. Grimes. Gas Age 53:396 Mr 29 '24
Standard method of test for fusibility of coal ash. il diags Am Soc T M Standards 1923:95-101
Sulphur as an index to ash fusibility. J. A. Murray. Power 59:561 Ap 8 '24; Same. Gas Age 53:564 Ap 26 '24
What becomes of the ash with pulverized coal? H. D. Savage. Power 58:1007 D 18 '23; Discussion. H. Misostow. 59:181-2 Ja 29 '24

See also Ash handling; Clinkers

COAL associations
Coal association growing pains. G: H: Cushing. Min Cong J 10:318-20 Jl '24

COAL balls
Coal balls—the finger prints that identify coal. F. L. Clark. il Coal Age 26:656-7 N 6 '24
New ideas of prehistoric flora. il Sci Am 130: 403 Je '24

COAL bins
Determination of stress in coal bunker supports. diag Power Pl Eng 28:1070-1 O 15 '24

COAL bins, Concrete
Concrete coal storage bins. Can Eng 47:245 Ag 12 '24

COAL breakers
Baker electric plant guarded against breakdown. E. J. Gealy. il diags Coal Age 26:117-20 Jl 24 '24
Baker—the latest Glen Alden breaker. il diags Coal Age 26:76-81 Jl 17 '24
By tumbling the reject and air cleaning smalls, indistinguishable bone is freed of ash. R. W. Arms. il Coal Age 25:421-2 Mr 20 '24
Destruction of anthracite breakers proves need of fire-prevention and fire-fighting equipment. H. Hammond. il diag plan Coal Age 24:729-31 N 15 '23
Keeping prepared sizes to maximum proportion. F. B. Davenport. il Coal Age 27:642-4 Ap 30 '25
Synchronous motors with magnetic clutches are successfully applied to breaker machinery. E. J. Gealy. il diag Coal Age 28:488-90 O 8 '25

See also Coal cutters

COAL carbonization. See Coal distillation

COAL cars
Experimental 50-ton capacity German freight cars. diags plan Ry R 74:257-8 F 9 '24
57½-ton hopper bottom gondola for C. & O. il diags Ry Mech Eng 98:161-4 Mr '24
Gondola car rebuilt in forty-five man-hours. il Ry Mech Eng 99:567-70 S '25; Same cond. Ry Age 78:1450-2 Je 13 '25
Missouri Pacific gets hopper cars with improved end design. il diag Ry Age 79:186-7 Jl 25 '25
Monon receives new composite hopper cars. E. Nilsson. il Ry R 77:234-5 Ag 15 '25
Representative examples of gondola cars built in 1923. il Ry R 74:29-32 Ja 5 '24
Representative examples of gondola cars built in 1924. il Ry R 76:54-7 Ja 3 '25
20-ton wagons for coal traffic. il Engineer 138:236 Ag 29 '24

COAL cars, Distribution of. See Coal—Transportation

COAL cleaning
By tumbling the reject and air cleaning smalls, indistinguishable bone is freed of ash. R. W. Arms. il Coal Age 25:421-2 Mr 20 '24
Concentrating tables—their operation and what results they obtain in cleaning anthracite. J: Griffin. il Coal Age 26:217-19 Ag 14 '24
Dry cleaning process for coal. il Min Cong J 10:311-14 Jl '24
How to clean and size coal so that a favorable market can be maintained. il Coal Age 25: 761-4 My 22 '24
New coal cleaning plant has a pneumatic process. R. W. Arms. il Coal Age 28:567-8 O 22 '25
Studies of froth flotation and Rheolaveur coal cleaning systems in Great Britain. C. H. S. Tupholme. Coal Age 27:682-4 My 7 '25
Theory and practice in air-table cleaning and results attained in field operation. R. W. Arms. il Coal Age 25:351-4 Mr 6 '24
Value of improved preparation of Pittsburgh coal. W. R. Roberts. Coal Age 28:497-8 O 8 '25
What anthracite region is doing to make fine sizes of coal more readily salable. F. H. Kneeland. diags plan Coal Age 25:673-5 My 8 '24

See also Coal washing; Flotation process (coal)

COAL consumption
Coal marketing. C. E. Lesher. Eng & Min J 119:13-17 Ja 3 '25
Nation is using less coal as it finds price too high. F. C. Honnold. Coal Age 26:396 S 18 '24
Shipbuilding and coal. M. Ballard. Marine Eng 30:620 N '25

See also Coal supply.

COAL contracts
Guaranteed contract urged to restore confidence in coal industry. P. Wooton. Coal Age 25:501 Ap 3 '24

See also Coal purchasing

COAL crushers
Coal crushing and grinding machinery. Chem Age (Lond) 12:298-9 Mr 28 '25
Crush coal to meet market needs. H. M. Killman. il Coal Age 25:490 Ap 3 '24
Heavy duty crusher; the Armorframe. il Blast F & Steel Pl 13:145+ Mr '25; Coal Age 27:455-6 Mr 19 '25; Power Pl Eng 29: 361 Mr 15 '25
Jeffrey fixed-hammer coal crusher makes few fines. il Coal Age 27:740 My 14 '25; Power 61:748 My 12 '25

See also Coal breakers

Electric equipment

Lowering the maintenance on coal-crushing motors. C. B. Kelley. diag Elec W 83:1240 Je 14 '24

COAL cutters
Adapting shortwall machine to center cutting. il Coal Age 26:725 N 20 '24
Coal stripper uses ice harvesters' method. D. M. Sutor. il Coal Age 25:415-17 Mr 20 '24
Correct forging and tempering methods double the life of undercutting-machine bits. A. F. Brosky. il diags Coal Age 25:3-5 Ja 3 '24
Cup-shaped bit makes big power saving. J. H. Edwards. il Coal Age 26:761-2 N 27 '24
Electric coal-cutter motors. P. Huggins. il diags Elec R (Lond) 97:244-8 Ag 14 '25
Factory methods in mine shop make bit sharpening more scientific. diag Coal Age 28:641 N 5 '25
Machine alternately cuts and loads coal. N. D. Levin. il diags Coal Age 27:499-501 Ap 2 '25
Mine cuts and hauls coals with battery power. J. B. Hicks. il Coal Age 27:39-42 Ja 8 '25
New coal-cutting machine drives gangways. A. Gerke. diags Coal Age 25:240-2 F 14 '24
New snubber increases yield of lump coal. il Coal Age 28:154-5 Jl 30 '25

COAL cutters—*Continued*
O'Toole machine is a combined cutter and loader. F. H. Kneeland. il diags Coal Age 27:783-7 My 28 '25
Topcutters have advantages; watering lays their dust. J: Forsythe. il Coal Age 27: 711 My 14 '25
Utah company uses top cutting successfully. T: A. Stroup. il diags Coal Age 25:599-602 Ap 24 '24
Vertical shearing saves powder but makes slack. E. W. Davidson. il Coal Age 26:607-9 O 30 '24

COAL distillation
Bayerns kohlenschätze und die aussichten ihrer verwertung. H. Fromm. map Zeit Ver Deutsch Ing 69:573-6 Ap 25 '25
Berginisation of Emma-coal. H. I. Waterman and J N. J. Perquin. bibliog Inst Pet Tech J 11:374-8 Ag '25
Bituminous coal—a raw fuel or a chemical resource. J. C. Dickerman. Ann Am Acad 118:128-32 Mr '25
British process for low-temperature carbonization tested by government bureau. C. H. S. Tupholme. il plan Chem & Met Eng 32:48-50 Ja 12 '25
Calorimetric apparatus for the measurement of reaction heats at high temperatures particularly for the heat of carbonization of coal. J. D. Davis. diags Ind & Eng Chem 16:726-30 Jl '24
Can we get $100 from one ton of coal? Sci Am 132:336-7 My '25
Carbonization. E. V. Evans. Gas J (Lond) 167:447-8, 515-16, 580-1 Jl 30-Ag 13 '24
La carbonisation à basse température, en particulier celle des lignites. C. Berthelot. Chimie & Ind 12:1023-5 D '24
La carbonisation de la houille; abstract. E. Audibert. Chimie & Ind 13:575-7 Ap '25
La carbonisation obligatoire de la houille; rapport de M. Patart. Génie Civil 84:456-7 My 10 '24
Carbonization yields from run of mine, slack and +¾" coals. D. J. Demorest. Am Gas J 119:347-9 O 16 '23; Same. Am Gas Assn Technical sec v 5:948-51; Discussion. 1041-6 '23
Carbonizing a South Wales gas coal in vertical retorts. Gas J (Lond) 168:903-4 D 31 '24
Carbonizing coal by the sensible heat of producer gas. C. H. S. Tupholme. il diag plans Chem & Met Eng 29:1008-12 D 3 '23
Carbonizing temperatures. W. H. Warren. Gas J (Lond) 168:649-50; Discussion. 650-1 D 3 '24
Case for low-temperature carbonization in America today. H. W. Brooks. il diags plan Power 62:634-8, 680-4 O 27-N 3 '25; Same (without conclusions). Power Pl Eng 29: 1087-91, 1139-43 N 1-15 '25
Cast-iron retorts for low-temperature carbonization; Tozer process. C. H. S. Tupholme. diags Chem & Met Eng 30:471-3 Mr 24 '24
Coal carbonization. H. C. Porter. 442p Chemical catalog co. '24
Coal carbonization and its products. C. H. Lander. Gas J (Lond) 165:313 F 6 '24
Coal carbonization as applied to power plant practice. V. Z. Caracristi. diags Power 57: 831-6 My 29 '23; Same. Am Gas J 119:65-9, 76-8 Jl 28 '23; Same, with table. Can Eng 46:109-14 Ja 1 '24; Abstract. Gas J (Lond) 64:534 Ag 15 '23
Coal distillation with steam. Gas Age 56:250 Ag 22 '25
Combined carbonization has commercial possibilities. Power 60:1038 D 23 '24
La commission de carbonisation et la carbonisation obligatoire. Génie Civil 83:453-6 N 10 '23
Comparative study of some coal tars produced by low-temperature carbonisation. K. B. Edwards. bibliog charts Soc Chem Ind J 43:149-56 My 16 '24
Comparative study of some coal tars produced A. C. Fieldner and R. L. Brown. Oil Paint & Drug Rep 108:xii-xiii pt 2 O 5 '25; Same cond. Coal Age 28:562-3 O 22 '25; Excerpt. Chem & Met Eng 32:799 O '25
Conversion of coal into oils. F. Fischer. 284p E. Benn, ltd., London '25; Review, by W. B. Davidson. Gas J (Lond) 171:442-3 Ag 19 '25; Review. Engineer 140:298-9 S 18 '25
Cracking of low-temperature coal tar and conversion products. J. C. Morrell and G. Egloff. Ind & Eng Chem 17:473-5 My '25; Same. Gas Age 55:733-4+ My 23 '25; Discussion. Ind & Eng Chem 17:763-4 Jl '25
Destructive distillation of coal—thermal model described. E. V. Evans. Gas Age 54:50 Jl 12 '24
La distillation des lignites pour la production d'huiles et d'essences minérales. V. Neveux. il diags Génie Civil 87:321-6, pl 4 O 17 '25
Distillation products of coal. W: E. Gray. Gas Age 55:799-800 Je 6 '25
Dobbelstein process of low-temperature coal carbonization. Gas Age 56:678 N 7 '25
Electric light plants contemplating a plunge into gas, coke and byproduct business. A. G. Christie. Coal Age 26:686-8 N 13 '24
European efforts to increase ammonia recovery. C. H. S. Tupholme. Chem & Met Eng 32:360-1 Mr '25
Extraction de l'acide cyanhydrique du gaz de houille et préparation directe du bleu de prusse. A. Delclève. Chimie & Ind 10:632-5 O '23; Same (Direct preparation of Prussian blue from coal gas). Gas J (Lond) 165:92-3 Ja 9 '24; Same. Am Gas J 120:522+ Je 7 '24
Extraction du goudron primaire et des huiles brutes, à partir des charbons gras, lignites, etc., par carbonisation à basse température. C: Berthelot. il diags Génie Civil 85:209-13, 230-3, 251-4 S 6-20 '24
Four vertical pour la distillation du charbon; abstract. A. F. P. Piner. Chimie & Ind 13: 411 Mr '25
Further researches on coal carbonisation. H. P. Hird. Soc Dyers & Col J 41:302-5 S '25
Gas producer methods in carbonizing coal; the Maclaurin process. C. H. S. Tupholme. diag Chem & Met Eng 29:1138-40 D 24 '23; Same cond. Gas Age 53:37-9 Ja 12 '24
Der gegenwärtige stand der steinkohlenschwelung in Deutschland. Cantieny. il diags Zeit Ver Deutsch Ing 69:547-53, 929-32 Ap 25, Jl 11 '25; Abstract (Aspects of coal carbonization in Germany). Gas Age 56:637 O 31 '25
Le gonflement de la houille au cours de la cokéfaction; abstract. W. Kronig. Chimie & Ind 14:219-21 Ag '25
Graded temperature zones in coal carbonization. C. H. S. Tupholme. il Chem & Met Eng 30:54-5 Ja 14 '24
High and low temperature coal carbonization. F. W. Sperr, jr. il Gas Age 54:41-5 Jl 12 '24
High-and low-temperature processes of coal distillation. W: H. Blauvelt. Chem Age 32: 17-21 Ja '24; Same. Gas Age 53:3-7 Ja 5 '24
La houille et le problème des combustibles liquides. E. Audibert. diags Chimie & Ind 10:613-31 O '23
Hydrogenation and liquefaction of coal. Gas J (Lond) 170:242 Ap 22 '25
Hydrogenation of coal. H. G. Shatwell. bibliog Inst Pet Tech J 11:369-74 Ag '25
Influence of catalysts on carbonisation. R. Lessing and M. A. L. Banks. Chem Soc J 125:2344-55 N '24; Abstracts. Am Gas J 121: 1231 N 29 '24; Chem Age (Lond) 11:422 O 25 '24; Gas J (Lond) 168:224 O 22 '24
Latest German developments in coal liquefaction and synthetic methanol. il Chem Age (Lond) 13:268-9 S 12 '25
Liquefaction of wood and cellulose and some general remarks on the liquefaction of coal. H. E. Fierz-David. Soc Chem Ind J (Chem & Ind) 44:942-4 S 25 '25
Liquid bye-products of coal carbonization as sources of power. W. G. Adam. Gas J (Lond) 167:254-5 Jl 9 '24

COAL distillation—*Continued*
Low-temperature carbonization. Gas J (Lond) 169:149-50 Ja 21 '25
Low-temperature carbonization. S. R. Illingworth. Gas J (Lond) 170:741-2 Je 10 '25
Low temperature carbonization. C. H. Lander and R. F. McKay. 277p Van Nostrand '24
Low temperature carbonization. C. H. Lander. Gas J (Lond) 167:453-5 Jl 30 '24; Same cond. Power 60:593 O 7 '24
Low-temperature carbonization. C. H. Lander. Gas J (Lond) 168:659-61 D 3 '24
Low temperature carbonisation. A. McCulloch. Soc Chem Ind J (Chem & Ind) 43:271-3 Mr 14 '24
Low-temperature carbonization. J. D. Smith. Gas J (Lond) 171:667-8 S 16 '25
Low temperature carbonisation. S. N. Wellington. 238p Lippincott '24
Low temperature carbonisation and the need for a national scientific policy. D: Brownlie. Soc Chem Ind J (Chem & Ind) 43:2-4 Ja 4 '24
Low temperature carbonization in revolving retorts. A. Thau. il diags Blast F & Steel Pl 13:434-41 N '25
Low temperature carbonisation of bituminous coal. A. McCulloch and N. Simpkin. 248p H. F. & G. Witherby, London '23
Low-temperature carbonisation of coal. Soc Chem Ind J (Chem & Ind) 43:619 Je 13 '24
Low-temperature carbonization of coal. C. M. Garland. diags Power 60:490-3 S 23 '24
Low-temperature coal carbonization and its prospective industrial development. H. C. Porter. il diags J Fr Inst 199:381-94 Mr '25
Low-temperature distillation. H. Nielsen. il Gas J (Lond) 168:434-8 N 12 '24; Same cond. Gas Age 55:71-3+ Ja 17 '25
Low temperature distillation. S. H. North and J. B. Garbe. 216p Pitman '25
Low-temperature distillation and the central station. G: A. Orrok. Elec W 86:620-2 S 26 '25
Low temperature distillation of coal. M. W. Ditto. Iron Age 116:1173-4 O 29 '25
Low-temperature distillation of Farmville, N. C., coal. W. E. Giles and F. C. Vilbrandt. il diags Ind & Eng Chem 16:779-82 Ag '24
Low temperature distillation process used by Ford with cost data. Gas Age 53:688 My 17 '24
Low-temperature processes of coal distillation; abstracts. Mech Eng 46:215-16 Ap '24
Low-temperature tar from bituminous coal. J. J. Morgan. Soc Chem Ind J (Chem & Ind) 42:1178-82 D 7 '23
Low temperature treatment of bituminous materials. Chem Age (Lond) 12:72-3 Ja 24 '25
McEwen-Runge low-temperature coal carbonisation system. diag Engineer 140:249 S 4 '25; Elec R (Lond) 97:412-13 S 11 '25
Modern carbonization in continuous vertical retorts. A. Y. Plant. Gas J (Lond) 164:838-9 D 26 '23
Modern methods of coal carbonization. R. Gray. Gas J (Lond) 165:713-15 Mr 19 '24
National importance of a British oil supply. Chem Age (Lond) 10:438-9 Ap 26 '24
Die nebenerzeugnisse der tieftemperaturbehandlung von braunkohlen. C. Bömcke. Zeit Ver Deutsch Ing 69:567-72 Ap 25 '25
Ein neues schwelverfahren. A. Thau. diags Stahl & Eisen 45:507-10 Ap 2 '25
New Zealand brown coals; low- and medium-temperature carbonisation experiments with typical high-sulphur and low-sulphur coals. J. A. Gilman and W. P. Evans. diags Soc Chem Ind J 44:263-5 My 29 '25
New Zealand brown coals, with special reference to their use in gas producers and for low-temperature distillation. W. O. R. Gilling and W. P. Evans. diags Soc Chem Ind J 44:259-63 My 29 '25
Nitrogen of coal and ammonia recovery; abstract. W. A. Calder. Chem Age (Lond) 10: 217 Mr 1 '24
Ölsynthese und elektrizitätswirtschaft. zur Nedden. diag Elektrotech Zeit 46:1397-9 S 10 '25
Parker low-temperature carbonisation plant. diags Engineering 118:588-9 O 24 '24
Plan to make Nottingham Britain's first smokeless city. C. H. S. Tupholme. Gas Age 55:118 Ja 24 '25
Plastic state of coal. G. E. Foxwell. Gas J (Lond) 168:661-2 D 3 '24
Practical coal carbonization. A. R. Powell. diags Mech Eng 46:389-94 Jl '24
Practical coal carbonization. F. W. Sperr, jr. Mech Eng 46:329-33 Je '24; Same. Chem Age 32:277-9, 297-9 Je-Jl '24
Present aspects of coal carbonization. S. J. Ramsburg. map Am Gas J 123:151-2+ Ag 22 '25
Procédés de production des huiles légères pour les moteurs à combustion interne. M. Brutzkus. Chimie & Ind 14:358-62 S '25
Pure coal briquette. Electrician 95:211 Ag 21 '25
Rates of carbonization of bituminous coal in relation to combustion chamber temperatures. R. E. Thwaites. Gas J (Lond) 168: 851 D 24 '24
Recent developments in European gas technology. C. H. S. Tupholme. diags Gas Age 55:701-2 My 16 '25
Report of the low temperature carbonization section, 1923. Am Gas Assn Technical sec v 5:977-91 '23
Report of the low temperature carbonization section. Am Gas Assn Technical sec v 6:1131-5 '24; Same. Gas Age 54:733-4+ N 22 '24; Excerpts. Am Gas J 121:1079-80 O 17 '24
Schwelung mit innenheizung nach dem Lurgiverfahren. Oetken and Hubmann. il diags Zeit Ver Deutsch Ing 69:561-3 Ap 25 '25
Schwelverfahren der AVG. Zeit Ver Deutsch Ing 69:564-5 Ap 25 '25
Scott-Moncrieff smokeless fuel process. Gas J (Lond) 165:787-8 Mr 26 '24
Smokeless fuel and oil. C. H. Lander. Soc Chem Ind J (Chem & Ind) 44:521-3; Discussion. 523-4 My 22 '25
Smokeless fuel: the present position and future possibilities. C. H. Lander and M. Fishenden. Soc Chem Ind J 44:375-82 Jl 24 '25
Some aspects of low temperature carbonisation. N. Simpkin. Engineer 139:487-8 My 1 '25; Same. Chem Age (Lond) 12:268-70 Mr 21 '25
Standard carbonizing plant test code. D. W. Wilson. Am Gas Assn Technical sec v 6: 1091-1105 '24
Der stehende schwelofen. il diag Stahl & Eisen 44:1286-90; 45:625-31 O 16 '24, Ap 23 '25
Study of some physical laws governing the carbonization of coal. A. W. Warner. Gas J (Lond) 165:90-1, 147-8 Ja 9-16 '24; Same. Am Gas Assn Technical sec v 5:928-38; Discussion. 1039-40 '23
Study of the destructive distillation of coal. E. V. Evans. Gas J (Lond) 165:483-8, 550-9 629-34 F 27-Mr 12 '24; Abstracts. Soc Chem Ind J (Chem & Ind) 43:248-9, 270-1, 307-8 Mr 7-21 '24; Chem Age (Lond) 10:218, 241, 268 Mr 1-15 '24
Study of the tars and oils obtained from coal. F. S. Sinnatt and J. G. King. Soc Chem Ind J 44:413-24 Ag 14 '25
Summary of British low-temperature carbonizing methods. C. H. S. Tupholme. Chem & Met Eng 30:1019 Je 30 '24
Sur le fractionnement thermique des produits gazeux de la carbonisation des combustibles solides. P. Lebeau. diags Chimie & Ind 14:10-20 Jl '25
Test results from low-temperature carbonization; further experiences with the Maclaurin plant at Dalmarnock, Scotland. C. H. S. Tupholme. Chem & Met Eng 30:397 Mr 10 '24
Thermal balance-sheets. R. F. W. Blakey. Gas J (Lond) 170:124-5 Ap 8 '25
Thermal reactions of coal during carbonization. J. D. Davis and P. B. Place. diag Ind & Eng Chem 16:589-92 Je '24
Tieftemperaturverkokung im geneigten doppeldrehofen. F. Müller. il diag Stahl & Eisen 45:885-7 Je 4 '25

COAL distillation—*Continued*
Ueber kohleschwelung. F. Schütz and W. Buschmann. Stahl & Eisen 45:1232-42 Jl 16 '25
Die umwandlung der kohle in öle. F. Fischer. Zeit Ver Deutsch Ing 69:15-17 Ja 3 '25
Using a modified Mond producer for low-temperature carbonization. C. H. S. Tupholme. diags Chem & Met Eng 30:271-3 F 18 '24
Using internal heating for low-temperature carbonization. C. H. S. Tupholme. il Chem & Met Eng 30:861-3 Je 2 '24; Abstract. Mech Eng 46:488 Ag '24
Valuation and testing of gas coals. F. J. Jackson. Gas J (Lond) 169:215-17 Ja 28 '25
Die verflüssigung der kohle. F. Bergius. il diags Zeit Ver Deutsch Ing 69:1313-20, 1359-62 O 17-24 '25
Die verschwelung der kohlen im stehenden drehofen, bauart Meguin. A. Sander. Zeit Ver Deutsch Ing 69:565-6 Ap 25 '25
Die verschwelung der minderwertigen brennstoffe und ihre zukunftsaussichten. H. R. Trenkler. Zeit Ver Deutsch Ing 69:555-61 Ap 25 '25

See also Coal tar; Coal-tar products; Coke manufacture; Gas manufacture; Xylene

Patents

Continuous system for the treatment of coal patented. Gas Age 54:116 Jl 26 '24

COAL drying
Carpenter centrifuge for coal drying. Mech Eng 47:934-5 N '25
Drying of coal for pulverizing. H. W. Brooks. diags Power Pl Eng 29:422-3, 501 Ap 15-My 1 '25
Nouvel appareil pour le séchage du charbon destiné à être pulvérise. diag Génie Civil 84:480 My 17 '24
Die rheinische braunkohle; neue dampfwirtschaft in brikettfabriken. Grunewald. il diags Zeit Ver Deutsch Ing 69:1005-12 Ag 1 '25

See also Coal washing

COAL dust
Bituloid, a colloidal oil, tested as a medium for laying coal dust. Coal Age 27:537 Ap 9 '25
Calcium chloride for binding coal dust. Coal Age 27:550 Ap 9 '25
Colloidal oil (bituloid) as a medium for laying coal dust. H: Briggs and N. H. Wales. Coal Age 26:615-17 O 30 '24
Conference at Pittsburgh treats coal problems. A. F. Brosky. Coal Age 27:648-9 Ap 30 '25
Dr Wheeler explains that wet coal dust is still coal dust and liable to explode. A. F. Brosky. il Coal Age 25:423-7 Mr 20 '24
Dust explosion chases shock wave. G: S. Rice. Coal Age 27:470 Mr 26 '25
Even coal and non-siliceous dusts harmful to health. D. Harrington. Coal Age 25:417-18 Mr 20 '24
Expériences sur les inflammations des poussières. Génie Civil 84:405-7 Ap 26 '24
Fighting coal-dust menace in the Transvaal. diag Coal Age 24:898-9 D 13 '23
How Old Ben corporation with rock dust extinguished seven mine explosions. J. E. Jones. il diags Coal Age 25:907-11 Je 19 '24; Same. Min Cong J 10:291-3 Jl '24
Investigations into rock dusting for coal dust explosion prevention. G: S. Rice. Min Cong J 10:295-6 Jl '24
Is mud equal to rock dust for mine protection? il diag Coal Age 26:391-4 S 18 '24
Just how harmful is dust? Coal Age 25:350 Mr 6 '24
Methods of rock dusting bituminous mines. E: Steidle. il Coal Age 26:825-9; Discussion. 823-4 D 11 '24
Novel plan of wetting bug dust. J: Walls, jr. Coal Age 24:710-11 N 8 '23
Occurrence, characteristics and behavior of coal dust. J. W. Paul. il Min Cong J 10:294+ Jl '24
Powdered coal hazards. H. G. Jacobsen. Concrete 24:sup5-7 Ja '24; Same abr. Nat Safety N 9:25-6 Ja '24
Prevention of coal-dust explosions and other accidents in coal mines. Monthly Labor R 18: 1200-3 Je '24
Rock dust no cure-all, say Western engineers. E. W. Davidson and A. F. Brosky. il diag Coal Age 26:783-8 D 4 '24
Rock dust versus water as a preventive measure for mine explosions. E. Steidle. Min Cong J 10:298+ Jl '24
Rock dusting and prevention of coal mine explosions. Min Cong J 10:222-3 My '24
Rock dusting in coal mines. T: J. Fear. il Nat Safety N 10:25-6 Ag '24
Rocky Mountain men strike new note in dusting at their summer session. Coal Age 26: 227-9 Ag 14 '24
Shale dusting now spreading rapidly in Illinois. il diags plan Coal Age 25:683-8 My 8 '24
Should we be content with ten per cent of rock dust in our mines? Coal Age 26:197, 342 Ag 7, S 4 '24
Sprinkling at face, rock dusting on entries is Harrington's program for all mines. D. Harrington. il Coal Age 27:715-18 My 14 '25
Stone dusting; a means of safety which helps Britain to keep fatality rate one-third as large as ours. J. A. S. Ritson. il diag Coal Age 25:663-8 My 8 '24
Stone dusting or rock dusting to prevent coal-dust explosions, as practiced in Great Britain and France. G: S. Rice. U S Bur Mines Bul 225:1-54 '24; Abstract. Safety Eng 47:253-4+ My '24
Tentative specifications for rock dusting to prevent coal-dust explosions in mines. G: S. Rice, J. W. Paul and R. R. Sayers. U S Bur Mines Rep of Invest 2606:1-6 My '24 (typew); Same. Coal Age 25:876-8 Je 12 '24
Uncleaned shothole may cause a misfire. G: Evans. Coal Age 26:267 Ag 21 '24
What happens when a coal mine goes up? il Coal Age 26:296 Ag 28 '24
What should we do to cope with the ever present dangers of coal dust? J: Walls. il Coal Age 25:367 Mr 6 '24
Why not salt mine roadways? Coal Age 27: 372 Mr 5 '25

See also Coal, Pulverized

COAL exchanges
British coal exchanges a popular form of co-operative effort. P. Wooton. Coal Age 25: 15-16 Ja 3 '24

COAL gas. See Coke-oven gas; Gas

COAL handling
Abraumförderbrücken im braunkohlentagebau. W. Ries. il diags Zeit Ver Deutsch Ing 69: 947-54 Jl 18 '25
Building a long retarding-conveyor gallery at Brotherhood mine, Coal River collieries. W. J. Denman. il diags Coal Age 25:235-6 F 14 '24
Catechism of central station gas engineering in the United States. diag Am Gas J 120: 487-8 My 24 '24
Cheapest labor for the power plant. M: W. Potts. il Ind Management 70:116-21 Ag '25
Coal and ash handling by means of conveyor machinery and silo type bunkers. Iron Age 114:383 Ag 14 '24
Coal and ash handling in the power house. W. D. Wylde. bibliog il Cassier's Ind Management 12:30-7 Ja '25
Coal and ash handling plant at East Greenwich power station. G: F: Zimmer. il diag plan Cassier's Ind Management 12:431-3, 467-70 S-O '25
Coal and ash handling plant at Leicester power station. G: F: Zimmer. diags plan Cassier's Ind Management 12:323-6, 365-7 Je-Jl '25
Coal and ash handling plant of the Powell Duffryn steam coal company's colliery, Bargoed. il diag plan Cassier's Ind Management 12:254-6 Ap '25

COAL handling—*Continued*
Coal and ash handling system at the Cherry river paper company. G. T. Birch. il Power 58:990-1 D 18 '23
Coal and ore handling plant at Waalhaven, Rotterdam. il diags Engineer 137:722-5 Je 27 '24
Coal conveying plant on the river Tees at Port Clarence. G: F: Zimmer. Engineering 119:40-1, 44, pl 4 Ja 9 '25
Coal handling at Eastbourne. il Electrician 91:728-9 D 28 '23
Coal handling at Zilwaukee. H. F. Eddy. diags Elec W 82:1314-16 D 29 '23
Coal-handling equipment of Indiana station. il Elec W 86:518 S 12 '25
Coal handling in power stations. F. J. Warden-Stevens. il diags plan Electrician 93:720-2+ D 26 '24
Coal handling plant at the East Greenwich power station. il diags plans Engineer 137: 715-16, 718 Je 27 '24; Elec R (Lond) 96: 872 My 29 '25
Coal-handling plant for loading barges and coasting vessels direct from the colliery. il diag Cassier's Ind Management 12:143-4 F '25
Coal hoisted by use of power chain block. il Power Pl Eng 28:892 S 1 '24
Coal shipping and bunkering at British ports. F. J. Warden-Stevens. bibliog il diags Cassier's Ind Management 12:44-57 Ja '25
Coal-storage systems for large plants. il Power 59:172-3 Ja 29 '24
Combination loader reduces breakage at the tipple. C: M. Schloss. il Coal Age 28:17 Jl 2 '25
Commission proves that machine loading reduces mine cost 30 per cent. charts diag Coal Age 24:733-8 N 15 '23
Control of power production. C: L. Hubbard. il diags Factory 34:431-7+ Mr '25
Cutting coal handling costs from 42½ to 6½ cents. il Brick & Clay Rec 64:956 Je 24 '24
Electrically-driven belt coal conveyors; the South docks, Sunderland, installation. il Elec R (Lond) 95:181-2 Ag 1 '24
Flexibility in power plant equipment. N. L. Davis. Blast F & Steel Pl 13:215-17 My '25
Floating coaling device for American lake steamers. diags Ind Management (Lond) 10:311 N 29 '23
Four-mile belt line carries 9,426 tons of coal in one day at Frick company mine. T: W. Dawson. il Coal Age 26:897-905 D 25 '24; Abstract. Sci Am 132:330 My '25
Generator voltage control for the high-speed coal towers at the Brooklyn Edison company's Hudson Avenue station. E. D. Harrington. il diag Gen Elec R 28:80-5 F '25; Abstract. Cassier's Ind Management 12: 470-3 O '25
Handling coal in Alameda. C: W. Geiger. il Management & Adm 9:158 F '25
Handling coal with gondola car dumper at St Louis. E. H. Kidder. il Gas Age 53:101-2 Ja 26 '24; Same. Iron Tr R 74:298-300 Ja 24 '24; Same. Iron Age 113:305-6 Ja 24 '24; Same. Blast F & Steel Pl 12:127-8 F '24; Same. Can Eng 46:463-4 Ap 22 '24; Same. Paper 34:105 My 8 '24; Same cond. Power Pl Eng 28:197-8 F 1 '24; Same cond. Elec W 83:287 F 9 '24
How a Milwaukee pumping station handles coal. N. L. Davis. il diags plans Power Pl Eng 28:1009-12 O 1 '24
How coal conveyor reduces cost of yard storage. H. S. Rich. il diags Ind Eng 82:447 S '24
How coal-handling costs were cut $5000 a year. J. J. Hartley. il Ind & Eng Chem 16:1156 N '24
How mechanical handling cuts power costs. M: W. Potts. diags Ind Management 68: 341-8 D '24
Industrial coal-handling equipment. G: E. Titcomb. il Management & Adm 7:79-84 Ja '24
Loading coal for ocean shipment at Sewalls Point, Va. il diags plan Iron Age 116:405-7 Ag 13 '25
Locomotive crane as a coal-storage machine. il Power 59:133-4 Ja 22 '24
Longest belt conveyor in the world; Frick coke co. il Chem & Met Eng 32:159 Ja 26 '25
Low-cost handling of coal and ashes. F. Schultz. il plan Management & Adm 8:623-6 D '24
Lowering coal down hillsides with minimum breakage. M. L. O'Neale. il diags Coal Age 25:715-21 My 15 '24
Mechanical features of the high-speed coal towers at the Brooklyn Edison company's Hudson Avenue station. C. D. Bray. il Gen Elec R 28:74, 76-9 F '25; Abstract. Cassier's Ind Management 12:470-3 O '25
Mechanical handling machinery at the British Empire exhibition, Wembley. il diags Cassier's Ind Management 11:355-60 Jl '24
Mechanical handling of locomotive coal in England. E. W. Selby. bibliog il diags Cassier's Ind Management 12:86-91 Ja '25
Methods of coal and ash handling. Power Pl Eng 29:785-6 Ag 1 '25
Modern appliances for the handling of coal in the harbour of Rotterdam. F. Westendorp. diags Cassier's Ind Management 11: 450-2, 479-81 O-N '24; Abstract. Engineering 117:619-20 My 9 '24
Modern coal handling. il Electrician 94:483 Ap 24 '25
Modern coal handling facilities at the Ruhr ports. il Eng N 93:300 Ag 21 '24
Modern practice of handling coal in bulk at coal piers. J. W. Speer. il Elec J 21:260-5 Je '24
Neuzeitlicher massentransport mit dauerförderern. Buhle. diags Zeit Ver Deutsch Ing 68:777-81 Jl 26 '24
Proper handling helps make mine output clean. A. F. Brosky. il diag Coal Age 28: 355-8 S 10 '25
Recently installed coal handling equipment at the Lydney station of the West Gloucester power co. il Electrician 95:179 Ag 14 '25
Ropeway for coaling a London hotel. G: F: Zimmer. il plan Cassier's Ind Management 11:243-5+ My 1 '24
Simple method of interlocking the control of coal-handling equipment. R. F. Emerson. Ind Eng 83:251-2 My '25
Skip hoist and boiler house equipment. il Eng & Contr (W W) 61:605-6 Mr 12 '24
Skip hoists. G: F: Zimmer. diags Electrician 93:723-5; 94:4-6 D 26 '24-Ja 2 '25
Some methods of storing coal. il diag Power 59:96-8 Ja 15 '24
Standardizing outside coal handling equipment. H. D. Smith. Min Cong J 10:183-4 Ap '24
Storage bin replaces coal bunker. il Power Pl Eng 29:431 Ap 15 '25
Store your coal now; ways and means for storing bituminous coal. R. B. Williams. il plan Blast F & Steel Pl 13:361-3 S '25
Storing coal 30 ft. high without danger. Elec W 84:369-70 Ag 23 '24
Submerged storage and coal handling equipment at Philo. il diags Power 61:976-9 Je 23 '25
Supplying coal for car heaters. P. V. C. See. il Elec Ry J 63:414 Mr 15 '24
Three methods of preparation and two of shipment embodied in design of Indiana tipple. il Coal Age 25:233-4 F 14 '24
Tractor handles coal at a cost of $0.026 per ton. W. T. Conlon. il Elec W 83:580 Mr 22 '24
Le transbordement du charbon par bennes preneuses, sur le canal du Rhin à Herne, dans le bassin de la Ruhr. il diags Génie Civil 84:209-10 Mr 1 '24
Twin-rope skip hoist works well. A. Allen and H. F. Hebley. il plans Coal Age 25:935-40 Je 26 '24
Virginian Ry. builds double car-dumper coaling pier. il diags plan Eng N 93:452-5 S 18 '24

See also Coal—Transportation; Coal loading machines: Coal piers: Coal storage; Coal tipples; Coaling; Coaling stations

COAL handling—*Continued*

Cost

Anheuser-Busch coal handling costs. H: Vorhof. il Power Pl Eng 28:443-4 Ap 15 '24
Application of various types of coal-handling equipment. G: E. Titcomb. Power 59:189-90 Ja 29 '24; Discussion. 59:381, 733-4 Mr 4, My 6 '24

COAL houses

Convenient coal house erected for use of New Mexico miners. il diags Coal Age 25:354 Mr 6 '24

COAL inspection

Clean coal; how to get it. R. H. Sweetser. il Iron Tr R 76:1575-7 Je 18 '25
Intensive fuel inspection on New York Central lines. M. MacFarlane. il Ry R 73:786-8 D 1 '23
Preparing coal for locomotive fuel. M. MacFarlane. Ry R 75:24-7 Jl 5 '24; Same cond. Ry Age 76:1827-8 Je 28 '24

COAL institute (proposed)

Unfavorable reaction develops toward proposed coal institute. P. Wooton. Coal Age 26:552 O 16 '24

COAL lands

Cessation in hearings of appeals on anthracite tax valuations. Coal Age 24:717 N 8 '23

See also Coal mines and mining

COAL loading machines

Adapting loaders and mining methods. il Coal Age 27:828-9 Je 4 '25
Advice to those using mechanical loaders. C: H. Thompson. il Coal Age 25:699-700 My 8 '24
At Pocahontas fuel co.'s mines, machines load forty per cent of output. A. F. Brosky. il diag Coal Age 27:459-63 Mr 26 '25
Can mechanical loading replace hand mining. G. B. Southward. il Min Cong J 11: 212+ My '25
Coloder, used by Pocahontas fuel co., is large machine of Coal commission report. A. F. Brosky. il Coal Age 27:215-18 F 5 '25
Commission proves that machine loading reduces mine cost 30 per cent. charts diag Coal Age 24:733-8 N 15 '23
Conveyor that facilitates concentrated mining. N. D. Levin. il diags Coal Age 26:541-4 O 16 '24
Donaldson coal trimming machine. diag Cassier's Ind Management 12:184 Mr '25
Flexible conveyor loader well adapted to long-face mining. N. D. Levin. il diags Coal Age 27:675-8 My 7 '25
Give loading machine the chance it deserves. C: Gottschalk. diags Coal Age 25:681-2 My 8 '24
How output of room-slabbing mines may be controlled. C: Gottschalk. Coal Age 26:251-2 Ag 21 '24
How to get big output from loading machines. W. M. Dake. diags Coal Age 25: 689-94 My 8 '24
Illinois mining institute discusses machine loading and rock dusting. Coal Age 28:83-5 Jl 16 '25
Interpretation of progress in mechanical loading. A. F. Brosky. il Coal Age 25:67-72 Ja 17 '24; Same abr. Eng & Contr (Ry) 61:832-6 Ap 16 '24
Learning the bottom facts in Indiana. J. H. Edwards. il Coal Age 28:281-3 Ag 27 '25
Loading machines discussed at Rocky mountain coal mining institute summer meeting, Price, Utah, Aug. 26-28. R. D. Hall. il Coal Age 28:307-9 S 3 '25
Long-face loader averages 90 tons per man. J. H. Edwards. il diags plan Coal Age 27: 897-900 Je 18 '25
Machine alternately cuts and loads coal. N. D. Levin. il diags Coal Age 27:499-501 Ap 2 '25
Machine loading advanced by bounds during past year. A. F. Brosky. il Coal Age 27: 67-70 Ja 15 '25
Machine loads 377 tons into 2-ton cars in 8 hours from room workings. A. F. Brosky. il diags plan Coal Age 26:857-63 D 18 '24
Machines load more than 100 tons per shift in mines on Paint Creek, West Virginia. A. F. Brosky. il Coal Age 26:37-41 Jl 10 '24
Making coal-loading machines work successfully in Indiana. D: Ingle. il diag Coal Age 25:163-6 Ja 31 '24
Mechanical loader may go across as result of competition caused by adoption of Jacksonville pact. P. Wooton. Coal Age 27:851 Je 4 '25
Mechanical loaders in use at the Fordson coal company. A. Lunsford. il Min Cong J 11: 296-300 Je '25
Mechanical loading—advantages and disadvantages. il Min Cong J 10:267-71 Je '24
Mechanical loading as discussed at Cincinnati meeting. il Min Cong J 11:286-95 Je '25
Mechanical loading at the United States coal and coke company. E: O'Toole. il Min Cong J 11:301-2+ Je '25
Mechanical loading in thin vein coal mines. E. Graff. il Min Cong J 11:213+ My '25
Mechanical loading problems and their relation to room-and-pillar and longwall workings. il Coal Age 25:845 Je 5 '24
Mining methods and loading machines. Min Cong J 11:340-9 Jl '25
One more mechanical loader comes to light; Wilson chainloader for low coal. il Coal Age 25:305-6 F 28 '24
O'Toole machine is a combined cutter and loader. F. H. Kneeland. il diags Coal Age 27:783-7 My 28 '25
Permissible equipment for underground coal loading machines. C. M. Means. il Coal Age 25:783-4 My 22 '24
Problem of fitting loading machine to physical conditions of mine and coal seam. il Coal Age 25:809-11 My 29 '24
Rocky Mountain coal mining institute discuss mechanical loading methods and equipment at summer session, Rock Springs, Wyo. Coal Age 26:258-60 Ag 21 '24
Scraper loaders cut cost in two hazard mines. A. F. Brosky. il plans Coal Age 28:589-93 O 29 '25
Stockly two-ton loader built for large capacity. A. F. Brosky. il diags Coal Age 27: 791-2 My 28 '25
Strip mines full of pitfalls for the unwary. G. Holmes. il Coal Age 26:211-16 Ag 14 '24
Suggestions for concentrated machine mining. N. D. Levin. diags Coal Age 26:109-12 Jl 24 '24
They are solving coal-loader problems at Hanna. il diag Coal Age 26:618-20 O 30 '24
Underground loading by machines. il Coal Age 27:824-7 Je 4 '25
What the mechanical loader can do and how it has been brought to its present perfection. il Coal Age 25:767-8 My 22 '24
With slabbing system and one machine loader Gay handles 250 tons of coal in 8 hours. A. F. Brosky. il diag map Coal Age 26:745-50 N 27 '24

COAL measurement

Coal from the mine to the boiler. J. M. Spitzglass. Power 62:527-9 O 6 '25
Determining by volumetric tests the quantity of unmarketable material in a coal seam. H. Owens. diags Coal Age 25:465-6 Mr 27 '24
Measuring coal on traveling grate stokers. Power 61:621, 959; 62:65, 257, 300, 458, 734 Ap 21, Je 16, Jl 14, Ag 18-25, S 22, N 10 '25
Metering of coal. W. S. Findlay. diag Cassier's Ind Management 11:517-18 D '24
Volumetric measurement of coal in relation to power station problems. J. E. Lea. plan Cassier's Ind Management 62:58 Ja 24 '24

COAL meters

Gilson efficiency meter. il diag Engineering 116:558-9 N 2 '23
Lea cubi-meter for pulverized fuel. il diags Engineering 120:258-9 Ag 28 '25; Elec R (Lond) 97:479 S 18 '25
Republic meter registers volume of coal fed by stoker. il Power Pl Eng 29:363 Mr 15 '25; Power 61:392 Mr 10 '25

COAL miners

Coal miners experimenting in business. G: H. Cushing. Manuf Rec 87:79-81 My 21 '25

COAL miners—*Continued*
Collective approach to problems of labor relations in the coal industry. F. R. Wadleigh. Ann Am Acad 119:121-6 My '25
Dining-car train serves mid-shift meal to tunnel crew. il Eng N 91:1021 D 20 '23
Home environment and employment opportunities of women in coal-mine workers' families. U S Women's Bur Bul 45:1-61 '25; Abstract. Monthly Labor R 21:333-4 Ag '25
How miner and manager, each with his immediate ends in view, hamper coal production. S. E. Thompson. il chart Coal Age 25: 383-5 Mr 13 '24
How output of men in mines varies with size of plant, seam thickness and labor relations. H. N. Eavenson. Coal Age 25:204-9 F 7 '24
How should loading-machine workers be paid? T. A. Stroup and S. W. Farnham. Coal Age 26:261 Ag 21 '24
Losing his legs only made him a better miner. W. J. German. il Coal Age 28:561 O 22 '25
Net result of coal mine strikes. G: H. Cushing. Min Cong J 11:432-3 S '25
Reducing labor turnover at coal mines. E. McAuliffe. Monthly Labor R 20:986-7 My '25
Union miners advertise to create jobs. Ptr Ink 129:33-4+ D 11 '24
Unstable dollar causes coal's wage troubles. I. Fisher. Coal Age 28:319 S 3 '25
Wages and efficiency as viewed by miners. T. D. Stiles. Ann Am Acad 111:198-202 Ja '24
What American coal mining may learn from Europe's mines. J: T. Ryan. il Coal Age 25:41-5 Ja 10 '24

See also Coal strike, 1922; Coal strike, 1925; Coronado coal company case; United mine workers of America

Diseases and hygiene

Coal miner; his health, diseases, and general welfare. E. L. Collis. J Ind Hygiene 7: 221-43 [bibliog. p. 242-3] My '25
Is coal industry blind to health hazards of mine? D. Harrington. il Coal Age 26:757-61 N 27 '24

Belgium

Les œuvres sociales des charbonnages de Maurage. G. Nibelle. Soc Ing Civils Bul 76:1080-90 O '23
Production and output in Belgian coal mines and coke ovens. Monthly Labor R 20:1263 Je '25

Canada

Settlement of Canadian coal strike. Monthly Labor R 20:193-6 Ja '25
Wage cut agreed to by Nova Scotia and Calgary mines. Comm & Fin Chr 121:667 Ag 8 '25

Colorado

Awards of industrial commission of Colorado; coal mines. Monthly Labor R 20:1284-5 Je '25
Coal-mining industry—award of Industrial commission of Colorado. Monthly Labor R 21:760-1 O '25
Employes' representation in coal mines. B. M. Selekman and M. Van Kleeck. 454p Russell Sage foundation, 130 E. 22d st., New York '25; Reviews. Monthly Labor R 20:759-62 Ap '25; Safety Eng 49:99-105 Mr '25

France

Average daily wages of French coal miners. Monthly Labor R 18:321-2 F '24
Average daily wages of French coal miners. Monthly Labor R 21:330-1 Ag '25
French miners' ownership schemes. Engineering 119:19-20 Ja 2 '25

Great Britain

British coal crisis. Nat City Bank p 150-7 S '25
British coal strike settlement. Index p 4-5 Ag '25
British coal strike staved off by government plan to aid operators nine months. Coal Age 28:189 Ag 6 '25
British coal wage agreement. Comm & Fin Chr 119:2121-2 N 8 '24
Case of opponents of 1921 agreement in British coal mines. P. Wooton. Coal Age 24:959 D 27 '23
Crisis in the English coal-mining industry. Monthly Labor R 21:645-52 S '25
How 1921 agreement has worked out in British coal mines. P. Wooton. Coal Age 24: 922-3 D 20 '23
Labour in the coal-mining industry (1914-1921). G. D. H. Cole. 274p Oxford '23
Mining maze. Economist 100:696-7 Ap 11 '25
Move in Great Britain to avert threatened strike of coal miners July 31. Comm & Fin Chr 121:404-5 Jl 25 '25
Output and production costs in British coal mines, second quarter of 1923. Monthly Labor R 18:95 Ja '24
Profit sharing plan in British coal mines simplifies wage problem. P. Wooton. Coal Age 24:844 D 6 '23
Provisional agreement in British coal mine dispute through government financial aid. Comm & Fin Chr 121:653-4 Ag 8 '25
Terms of English coal truce. Monthly Labor R 21:705-8 O '25

Illinois

Coal situation in Illinois. E. Stewart. Monthly Labor R 20:962-9 My '25
Lewis clings to Jacksonville compact. S. A. Hale. Coal Age 27:953 Je 25 '25
Miners turn to giant power. M. Coleman. Ann Am Acad 118:60-2 Mr '25
Productivity of labor in selected coal mines in Illinois. Monthly Labor R 20:1057-9 My '25
Why are loading machine operators paid $10.07? Coal Age 28:564-5 O 22 '25

India

Employment of women in coal mines of India. Monthly Labor R 20:562 Mr '25

Indiana

Why are loading machine operators paid $10.07? Coal Age 28:564-5 O 22 '25

Kentucky

One way to industrial peace. il Min Cong J 10:243-4 Je '24

Mexico

Men well treated in American mines of Mexico. W. A. Roy. il Coal Age 26:893-5 D 25 '24

Nova Scotia

Strike in Nova Scotia coal mines. Monthly Labor R 21:191-4 Jl '25

Ohio

Wages in Ohio coal mines, 1922. Monthly Labor R 18:549-50 Mr '24

Pennsylvania

Central Pennsylvania operators again ask readjustment of union agreement. Coal Age 26: 692 N 13 '24
Hours and earnings in anthracite mining, 1922 and 1924. Monthly Labor R 21:69-87 Jl '25

Poland

Coal production in Poland in 1922 and 1923. Monthly Labor R 20:1264 Je '25

Ruhr valley

Resumption of eight-hour shift in Ruhr mines. Monthly Labor R 18:323-4 F '24

Spain

Wages, production costs, and output in coal mines of Oviedo Province, Spain. Monthly Labor R 20:1264-5 Je '25

United States

American federation of labor approves demands of anthracite miners. Comm & Fin Chr 121:1868-9 O 17 '25

COAL miners—United States—*Continued*
Anthracite controversy. Index p 3-4 Ag '25
Anthracite men lay down tools with no prospect of peace. S. A. Hale. Coal Age 28:320-1 S 3 '25
Anthracite miners' pay is high for time they work. Coal Age 28:394 S 17 '25
Anthracite miners' wage demands. Coal Age 28:48-9, 120-1 Jl 9, 23 '25
Anthracite operators and miners still far apart on leading issues in wage controversy. S. A. Hale. Coal Age 28:118-20 Jl 23 '25
Anthracite wage negotiations. Comm & Fin Chr 121:35-6, 152-3, 290-1, 419, 666-7, 797-800, 1047 Jl 4-25, Ag 8-15, 29 '25
Basic facts in the anthracite contest. A. Martine. Annalist 26:180 Ag 14 '25
Coal loaders—where are we going to get them? W: A. Butler. Coal Age 26:113-16 Jl 24 '24
Coal production in the United States per man per day in 1919, 1920 and 1921. Monthly Labor R 18:92-5 Ja '24
Coal's misadventure with labor. G: H. Cushing. Min Cong J 11:229-30 My '25
Coal's wage scale problem. G: H. Cushing. Min Cong J 11:176-7 Ap '25
Data in support of Consolidation coal company's action in closing mines in 1924. J: D. Rockefeller, jr. Comm & Fin Chr 121: 153 Jl 11 '25
Denial of civil liberties in the coal fields. W. D. Lane. 44p Doran '24
Drift in coal mine labor. G: H. Cushing. Min Cong J 11:378-9 Ag '25
Experts talk anthracite and contract breaking. P. Wooton. Coal Age 28:598-9 O 29 '25
Figuring the truth about the coal miner. H: M. Payne. Min Cong J 11:464-5 O '25
Hourly wages in the mining industry have increased 192 per cent since 1924. Elec W 86:154 Jl 18 '25
Industrial cooperation and common sense. Min Cong J 10:245-7 Je '24
Irregularity of employment in the coal industry. Monthly Labor R 18:123-9 Ja '24
Jacksonville agreement proves setback to union fields. P. Wooton. Coal Age 26:729 N 20 '24
Labor employed in anthracite mines in 1923. Comm & Fin Chr 119:2012-13 N 1 '24
Labor relations in coal mining. F. G. Tyron and others. Ann Am Acad 111:82-124 Ja '24
Living conditions of bituminous mine workers. Monthly Labor R 18:529-35 Mr '24
Miners' fight for American standards. J: L. Lewis. 189p Bell pub. co., Indianapolis '25
Miners smash anthracite negotiations. S. A. Hale. Coal Age 28:185-8 Ag 6 '25
Miners' union. S. A. Hale. chart map Coal Age 28:417-20, 459-62, 491-5, 594-8 S 24-O 8, 29 '25
Miners' wages and the cost of coal. I. Lubin. 316p McGraw-Hill '24
Miners want four years' contract on best terms obtainable. E. W. Davidson. Coal Age 25:213-16 F 7 '24
Miners want higher pay because of labor hazards. R. D. Hall. Coal Age 28:71-3 Jl 16 '25
Peace to stabilize coal trade. F. B. Pletcher. il Iron Tr R 74:674-6 Mr 6 '24
Production and labour in United States coal mines. E: T. Devine. Int Labour R 10: 759-78, 935-61 N-D '24
Should anthracite miners ask higher wages? Coal Age 28:11-12 Jl 2 '25
Strike for union. H. Blankenhorn. 259p H. W. Wilson co. '24
Summary of rates paid to company men in anthracite mines under date of April 1, 1923, as reported by U.S. coal commission. Coal Age 24:855 D 6 '23
United mine workers of America and the United States coal commission. 48p United mine workers of America, Indianapolis
Wage rates in the anthracite industry. Monthly Labor R 18:544-8 Mr '24
Wage situation in the coal industry. Index p 3-4 Je '25
Wages, hours and working conditions in the bituminous and anthracite coal fields; symposium. charts Ann Am Acad 111:1-81, 314-43 Ja '24
What Governor Pinchot's philanthropy to the anthracite miners means to the public. E. W. Parker. Coal Age 25:566-8 Ap 17 '24
What the Coal commission found. E: E. Hunt, F. G. Tryon and J. H. Willits, eds. 416p Williams & Wilkins co., Baltimore '25
What the coal miner earns. A. Bezanson. Coal Age 24:880-5 D 13 '23; Same. Ann Am Acad 111:1-11 Ja '24
Where are wages now? Gas Age 56:42 Jl 11 '25

See also Coal strike, 1922; Coal strike, 1925; Coronado coal company case; United mine workers of America

Wales

Experiment in mine management in Wales. Monthly Labor R 20:993 My '25

West Virginia

Industrial situation in West Virginia. J. Keely. il Min Cong J 11:269-70 Je '25
Labor relations in the Fairmont, West Virginia bituminous coal field. B. Emmet. U S Bur Labor Statistics Bul 361:1-86 '24; Abstract. Monthly Labor R 19:994-6 N '24
Monongah mine to run open shop in West Virginia union citadel; two companies sign Baltimore pact. Coal Age 28:673 N 12 '25
Output resumes upward curve in West Virginia strike region. Coal Age 28:535 O 15 '25
Peaceful persuasion upheld in West Virginia strike. Coal Age 27:763 My 21 '25
Union wins and loses injunctions in West Virginia strike. Coal Age 27:722 My 14 '25
West Virginia strike divides interest in Washington with Trade commission order to Northwest dock operators. P. Wooton. Coal Age 27:544 Ap 9 '25
West Virginia's labor problem. J. Keely. il Min Cong J 11:50-1+ F '25
West Virginia's problem in industrial cooperation. J. Keeley. Min Cong J 10:303-4 Jl '24

COAL mines and mining
Adapting loaders and mining methods. il Coal Age 27:828-9 Je 4 '25
Addresses at the third quarterly meeting of the Pittsburgh coal mining institute, July 10. il Coal Age 28:114-17 Jl 23 '25
Advances in mine plants and safety are themes of Coal mining institute of America. R. D. Hall. il Coal Age 26:819-24 D 11 '24
At Pikeview mine pillar drawing raises extraction to 95 per cent; formerly only two-thirds as much. il diags Coal Age 24:695-8 N 8 '23
At Pocahontas fuel co.'s mines, machines load forty per cent of output. A. F. Brosky. il diag Coal Age 27:459-63 Mr 26 '25
Biggest problem at Lynch is haulage of coal; how its large output moves to the tipple. il diag Coal Age 24:875-9 D 13 '23
Block system of mining coal has many advantages. H. R. Bissell. diags plans Coal Age 26:613-14 O 30 '24
Brick and steel in Sunday Creek mines. il Coal Age 27:464 Mr 26 '25
Case of bituminous coal. W. H. Hamilton and H. R. Wright. 310p Macmillan '25
Coal mining institute seeks cure for frequently recurrent mine explosions. Coal Age 24:947-51 D 27 '23
Concentration in coal mining. E. B. Moore. Coal Age 26:128 Jl 24 '24
L'extraction de la houille aux grandes profondeurs. Génie Civil 86:213-15 F 28 '25
Glen Alden operates three longwall faces with conveyors in a thirty-inch coal seam. F. H. Kneeland. il diag Coal Age 26:71-4 Jl 17 '24
H. S. Gay long ago tried out modified longwall. A. F. Brosky. diags Coal Age 26:677-80 N 13 '24
How output of room-slabbing mines may be controlled. C: Gottschalk. Coal Age 26:251-2 Ag 21 '24

COAL mines and mining—*Continued*
How swinging chutes are applied to thin seams. A. Gerke. diags Coal Age 24:839-42 D 6 '23
How to get big output from loading machines. W. M. Dake. diags Coal Age 25: 689-94 My 8 '24
How to get lump coal in place of slack. il Coal Age 25:765-6 My 22 '24
Increasing lump coal production by cushioned blasting. J. H. Horlick, jr. Min Cong J 10: 329 Jl '24
Layout adds 47 per cent to domestic; mining a steeply pitching anthracite seam. J. S. Miller. diags Coal Age 27:679-81 My 7 '25
Long-face mining reclaims much abandoned coal in big vein of Georges Creek region. A. F. Brosky. il diags Coal Age 27:941-8 Je 25 '25
Machine drills and skilled shooting cut costs. F. E. Taylor. il Coal Age 27:901-2 Je 18 '25
Method of increasing lump-coal production, with especial reference to southern Illinois. J. E. Tiffany and J. J. McKitterick. diags U S Bur Mines Rep of Invest 2697:1-7 Ag '25 (typew)
Mining method cuts cost in steep anthracite. D. C. Ashmead. diags Coal Age 28:43-4 Jl 9 '25
Mining methods and loading machines. Min Cong J 11:340-9 Jl '25
National coal association seeks way to serve industry with statistical data. R. D. Hall. Coal Age 27:931-6 Je 25 '25
New entry system aids anthracite mining. D. C. Ashmead. diags map Coal Age 27: 903-5 Je 18 '25
New methods develop better and cheaper ways of mining coal. il Coal Age 27:323-4 F 26 '25
Old workings at Cassidy, B.C., flushed with fine rock. J. B. Touhey. diags Coal Age 26: 654-5 N 6 '24
One operation completes extraction and reduces upkeep expense in anthracite mine. D. C. Ashmead. il diag Coal Age 27:793-4 My 28 '25
Preparing coal for locomotive fuel. M. MacFarlane. Ry R 75:24-7 Jl 5 '24; Same cond. Ry Age 76:1827-8 Je 28 '24
Procedure of making tests to determine efficiency of different methods of blasting coal. J. E. Tiffany and C. W. Nelson. Min Cong J 10:330 Jl '24
Reopening thick, flat anthracite beds. D. C. Ashmead. il diag Coal Age 27:579-80 Ap 16 '25
Research in blasting coal. J. E. Crawshaw. Min Cong J 10:327 Jl '24
Rocky Mountain men develop new ideas in coal mining. Coal Age 27:358-63 Mr 5 '25
Scranton lace company, a factory with its own coal mine. R: Barclay. il Am Ind 24:33-5 My '24
Securing greater realization through cutting and shooting. il Min Cong J 11:333-9+ Jl '25
Shaft bottom for mine designed to produce 13,000 tons daily. diag plan Coal Age 28: 284-5 Ag 27 '25
Southern mining co. men go over their problems in third annual meeting with manufacturers' engineers at Williamsburg, Ky. J. H. Edwards. Coal Age 28:496-7 O 8 '25
Suggestions for concentrated machine mining. N. D. Levin. diags Coal Age 26:109-12 Jl 24 '24
Three suggestions to methods of mining a difficult coal seam. diags Coal Age 26:270 Ag 21 '24
Using rock dust in shotholes to lessen violence and increase lump coal. J. H. Horlick, jr. Coal Age 25:805-6 My 29 '24
V-panel mining progressing in southern Colorado. E. W. Davidson. il diags Coal Age 26:711-14 N 20 '24; Abstract. Sci Am 132:196-7 Mr '25
Vertical shearing saves powder but makes slack. E. W. Davidson. il Coal Age 26:607-9 O 30 '24
With hand shoveling 10 tons per man and 26 tons per loader already attained. A. F. Brosky. il plans Coal Age 25:197-203 F 7 '24
With slabbing system and one machine loader Gay handles 250 tons of coal in 8 hours. A. F. Brosky. il diag map Coal Age 26:745-50 N 27 '24
Working three feet of coal with slate and shale partings. Coal Age 24:219-20, 403-4, 709-10, 744, 820-1 Ag 9, S 13, N 8-15, 29 '23
Workmen's compensation insurance for American coal mines as written by the Associated companies. G. B. Butterfield. Econ W n s 28:309-11 Ag 30 '24

See also Coal breakers; Coal crushers; Coal cutters; Coal dust; Coal handling; Coal lands; Coal miners; Coal mining machinery; Coal storage; Coal washing; Hydraulic mine filling; Mining engineering; Respiratory apparatus

Accidents and explosions

Accidents add four per cent to operating cost. Coal Age 25:388 Mr 13 '24
Accidents at the face—their cause and prevention. C. E. Anderson and F. F. Green. Nat Safety N 11:29 F '25
Benwood blast due to ignition of gas and dust by open lamp. il Coal Age 25:730-2 My 15 '24
Benwood explosion shows need for stricter and more uniform mining laws. R. M. Lambie. il Coal Age 25:728-30 My 15 '24
Bumps and shocks disturb Johnson colliery. J. C. Ashmead. diags map Coal Age 26:641-3 N 6 '24
Castlegate blast due to contact of gas with open light, says preliminary report. il map Coal Age 25:431-2 Mr 20 '24
Cause of Barrackville blast unknown; company is exonerated of negligence. Coal Age 28:122 Jl 23 '25
Coal-mine accidents in Great Britain take 1,289 lives in 1923. Coal Age 25:427 Mr 20 '24
Coal-mine accidents in Pennsylvania, 1916 to 1922. Monthly Labor R 18:1339-41 Je '24
Coal-mine explosions and their prevention. H. F. Bain. Monthly Labor R 18:1196-1200 Je '24
Coal-mine fatalities by causes and states. Published monthly in Coal age
Coal-mine fatalities in the United States and Europe. W. W. Adams. U S Bur Mines Rep of Invest 2592:1-12 Ap '24 (typew)
Coal-mine fatalities in the United States, 1923. W: W. Adams. U S Bur Mines Bul 241:1-88 '24; Excerpt. Monthly Labor R 19: 1148-50 N '24
Coal-mine fatalities in the United States, 1924. W: W. Adams. U S Bur Mines Bul 251:1-95 '25; Excerpt. Monthly Labor R 21:400-1 Ag '25
Coal-mine fatalities, 1920-1922, by countries. Coal Age 26:694 N 13 '24
Critical time of day for coal-mine explosions. L. D. Tracy and M. W. von Bernewitz. U S Bur Mines Rep of Invest 2638:1-5 S '24 (typew); Same cond. Econ W n s 28: 566 O 18 '24; Same cond. Monthly Labor R 19:1354-5 D '24
Damage at Barrackville mine greatest in main shaft where air entered. il Coal Age 27:472-4 Mr 26 '25
Danger of open lamps in coal mines. L. C. Ilsley and M. W. von Bernewitz. U S Bur Mines Rep of Invest 2567:1-3 Ja '24 (typew)
Deadly air blasts from falling roof rock kill many miners in India. D: Penman. Coal Age 26:326 S 4 '24
Dr Wheeler explains that wet coal dust is still coal dust and liable to explode. A. F. Brosky. il Coal Age 25:423-7 Mr 20 '24
Does sprinkling increase spontaneous combustion in mines? C. P. Crawford. Coal Age 28:312-13 S 3 '25
Don't be a John Hardy—prevent explosions. S. L. Morrow. il Coal Age 28:628-31 N 5 '25
Elaborate care fails to protect Gates mine. map Coal Age 26:431-3 S 25 '24
Electrical accidents in mines; report of H. M. electrical inspector of mines for the year 1924. Elec R (Lond) 97:351-2 Ag 28 '25

COAL mines and mining—Accidents and explosions—*Continued*
Explosion hazards incidental to unwatering coal mines. L. D. Tracy. U S Bur Mines Rep of Invest 2649:1-5 O '24 (typew); Same. Coal Age 26:723-4 N 20 '24
Explosion in an undusted Kentucky coal mine; Diamond mine at Providence, Ky. il diag Coal Age 27:186-7 Ja 29 '25
Falls of roof and coal in bituminous coal mines. W. W. Adams. U S Bur Mines Rep of Invest 2711:1-10 O '25 (typew)
Fatal accidents in Nova Scotia coal mines, 1908 to 1924. Monthly Labor R 20:1142 My '25
Fatality rate per man and per ton sure to decrease. N. G. Alford. Coal Age 26:12-13 Jl 3 '24
Half the coal mine accidents preventable. Safety Eng 48:96 S '24
Hazards of electric sparks and arcs in coal mines. L. C. Ilsley. U S Bur Mines Rep of Invest 2626:1-3 Jl '24 (typew); Same. Coal Age 26:434 S 25 '24
Ignition of gas by sparks from falling rock possible. il Coal Age 24:711-12 N 8 '23
In Ohio sixty-nine industries pay higher compensation rates than coal mining. R. D. Hall. Coal Age 28:217-18 Ag 13 '25
Mineral industry of the British Empire and foreign countries. 75p Gt. Brit. Imperial mineral resources bur., London '24
Nobody knows cause of Barrackville mine blast. A. F. Brosky. il Coal Age 27:531-4 Ap 9 '25
Nunnery mine accident may lead to new laws relative to inclines. il Coal Age 26:905 D 25 '24
Old men more subject than younger to accidents. T: T. Read and W. W. Adams. Coal Age 25:941-2 Je 26 '24
Ratios which slight and serious accidents bear to fatalities. D. A. Lyon. Coal Age 27:694 My 7 '25
Recovery work after the Castlegate mine disaster, what it taught and exemplified. A. L. Murray. Coal Age 26:323-6 S 4 '24
Shanktown explosion. il Coal Age 25:285, 419-20 F 21, Mr 20 '24
Why do coal mines explode? T: T. Read. il Nat Safety N 12:28-9 O '25

See also Coal dust; Coal mines and mining—Fires and fire protection; Coal mines and mining—Safety measures; Mine accidents; Mine rescue work

Accounting

Examination of bituminous coal companies. C. W. McDowell. J Account 39:293-8 Ap '25
More short-line ways of handling coal sales. J: C. McNeil. Coal Age 25:7-10 Ja 3 '24

Consolidation

Consolidations of bituminous mining operations. J: C. Brydon. Min Cong J 10:202-4 My '24
Mergers in bituminous coal fields in 1924 include only 30,000,000 tons output. Coal Age 27:423-4 Mr 19 '25

Costs

Figures tell story of coal industry's struggle to adjust itself following the war. D: L. Wing. Coal Age 27:635-7 Ap 30 '25
Graphic charts enable mine heads and higher ups to watch every factor in coal costs. W. L. Affelder. Coal Age 28:13-17 Jl 2 '25; Same. Min Cong J 11:388-94 Ag '25
Modernize!—some revolutionary suggestions with practical possibilities in actual practice. W. M. Dake. diags Coal Age 25:131-5 Ja 24 '24
Need for uniform and up-to-date data on the cost of production, investment and profits of operators. D: L. Wing. Ann Am Acad 111:256-65 Ja '24
What is the relation of cost of production to the price of coal? D: L. Wing. Coal Age 25:428-30 Mr 20 '24

Damages from storms, etc.

Illinois mines suffer $300,000 damage in furious cyclone. il Coal Age 27:476-7 Mr 26 '25

Equipment

Corrosion-resistant alloys for use in acid mine water. R. J. Anderson and G: M. Enos. Am Soc T M Pro 24 pt 2:259-72 [bibliog. p. 272] '24
Cost-cutting suggestions for the mine executive. E. Gealy. il Coal Age 25:678-80 My 8 '24
Efficiency means profit in coal production; national exposition of coal mining equipment and machinery. E. C. Porter. Min Cong J 11:203-11 My '25
Engineering achievements outstanding features of mining progress in 1923. E. J. Gealy. Coal Age 25:77-8 Ja 17 '24
Force motrice et extraction aux mines de Lens. E. Cuvelette. diags map plans Soc Ing Civils Bul 77:521-74, pl 76 O '24
Hecla pulling jack for mine work. il Engineering 119:555 My 1 '25
How coal companies are cutting costs. il Coal Age 27:81-8 Ja 15 '25
How some companies took time by the forelock this summer and are now being repaid. E. J. Gealy. il Coal Age 26:751-5 N 27 '24
Large colliery compressed air transmission scheme. il diags Engineer 140:238-40, 242, 261-2, 268 S 4-11 '25
Longwall conveyors in the Paris coal field. H. Denman. il diags plan Coal Age 27:353-6 Mr 5 '25
Mechanical, electrical difficulties discussed at American mining congress. il Coal Age 27:819-21 Je 4 '25
National coal equipment exposition. Min Cong J 10:193-7 My '24
New ideas make painting at mines more effective. F. L. Adams. il Coal Age 27:671-4 My 7 '25
1924 saw many improvements in mine equipment. F. H. Kneeland. il Coal Age 27:74-6 Ja 15 '25
Problem of corrosion in the coal-mining industry. G: M. Enos. il Eng Soc W Pa 39:309-26; Bibliography. 326-7; Discussion. 328-39 D '23
Reconditioning cuts Valier mine costs. F. H. Kneeland. il plan Coal Age 28:623-7 N 5 '25
Savings made by efficient machinery during the old year point the way for the future. E. J. Gealy. il Coal Age 27:77-80 Ja 15 '25
Standardizing underground transportation. diags Min Cong J 10:135-41 Mr '24
Steep ropeways in South Wales. il (supp) diags Engineer 139:514-16, 518 My 8 '25
System without red tape keeps costs down. J. H. Edwards. il Coal Age 28:347-54 S 10 '25
Wireless mine at Bartley strives for safety. J. H. Edwards. il plan Coal Age 28:359-64 S 10 '25

See also Brattice cloth; Coal mines and mining—Management; Coal mining machinery; Electric locomotives, Mine; Locomotives, Mine

Testing

Instruments that decide your fortune. J. F. MacWilliams. Coal Age 25:760 My 22 '24

Explosives

Advice on best methods of shooting coal. Coal Age 25:646-7 My 1 '24
Company educates its men to cut and shoot better. C. P. Anderson. il Coal Age 28:183-4 Ag 6 '25
Cutting and shooting experiences. il Coal Age 27:834-6 Je 4 '25
Explosives. A. C. Callen. 77p Burton pub co., Chicago '24
In double Freeport seam, clay is better than rock dust for stemming. J. H. Zorn. il Coal Age 28:539-40 O 15 '25
Mining coal with black powder is dangerous. Sci Am 131:335 N '24
Poisonous gases from explosives. C. D. Pratt. Min Cong J 11:395-7 Ag '25
Rock-dust tamped, air cushioned shots increase yield of lump coal in experiments. J. J. Rutledge. Coal Age 28:78-80 Jl 16 '25

COAL mines and mining—Explosives—*Cont.*
La sécurité du tir en milieu inflammable. Génie Civil 85:259-60 S 20 '24

See also Explosives; Hydraulic mining cartridge

Finance

Banker tells coal industry how to aid itself. R. K. Cassatt. il Coal Age 27:937-40 Je 25 '25
Coal commission's report on anthracite profits recommends differential taxation, publicity of accounts and use of hard-coal substitutes. Coal Age 24:747-51 N 15 '23
Coal industry and the investing public. J. E. Allen. il Min Cong J 11:284-5 Je '25
Examining engineer's work plays vital part in financing of a coal mine property. J. A. Garcia. il maps Coal Age 28:275-80 Ag 27 '25

Fires and fire protection

Destruction of anthracite breakers proves need of fire-prevention and fire-fighting equipment. H. Hammond. il diag plan Coal Age 24:729-31 N 15 '23
Fire, largely isolated by a fault, is successfully sealed by men in oxygen breathing apparatus. il map Coal Age 25:379-82 Mr 13 '24
Problem of mine fires. Sci Am 130:172 Mr '24
Prompt, efficient action saves men and mine from fire. il plan Coal Age 28:634-5 N 5 '25
Shall we protect mines from gob fires by stowing, ventilation or stoppings? Coal Age 25:291 F 21 '24

Government ownership

Government ownership of coal mines. J. E. Johnsen. 392p H. W. Wilson co. '23
John L. Lewis charges John Hays Hammond with responsibility for proposed nationalization of coal mines. Comm & Fin Chr 121: 1309-10 S 12 '25

Haulage

See Mine haulage

History

"Befo' de wah" mine yields curious relics; Bell property of west Kentucky. E. W. Davidson. il plan Coal Age 25:273-6 F 21 '24

Law

See Mining law

Lighting

See Mine lighting

Management

Balanced mines should have rock-bottom costs. C: E. Anderson. diags Coal Age 25: 637-40 My 1 '24
Coal commission suggests ways of operating mines that would lower cost. il Coal Age 24:691-4, 733-8 N 8-15 '23
Collective approach to problems of labor relations in the coal industry. F. R. Wadleigh. Ann Am Acad 119:121-6 My '25
Company educates its men to cut and shoot better. C. P. Anderson. il Coal Age 28:183-4 Ag 6 '25
How repair costs have been reduced by a large coal company. il Coal Age 26:268-9 Ag 21 '24
Introducing the practical man to modern management. H. S. Gilbertson. Ann Am Acad 119:115-20 My '25
Is the payroll dollar worth the mine dollar? H. J. Grossman. il Coal Age 26:571-3 O 23 '24
It is easy to waste money on mine supplies. N. Hutchings. Coal Age 24:952-3 D 27 '23
Keeping prepared sizes to maximum proportion. F. B. Davenport. il Coal Age 27:642-4 Ap 30 '25
Kentucky chief electricians learn how to cut costs. J. H. Edwards. il Coal Age 26:545-7 O 16 '24
Mine management policies. 103p Lehigh coal and navigation co., Lansford, Pa. '25
Modernize!—some revolutionary suggestions with practical possibilities in actual practice. W. M. Dake. diags Coal Age 25:131-5 Ja 24 '24
Problem of efficiency and cost reduction in coal mining. H. Archibald. Ann Am Acad 111: 181-90; Discussion. 191-7 Ja '24
Reconditioning cuts Valier mine costs. F. H. Kneeland. il plan Coal Age 28:623-7 N 5 '25
Reducing costs by proper supervision of electrical equipment. J. H. Edwards. il charts Coal Age 27:175-9 Ja 29 '25
Trees help to reduce costs of coal mining. R. J. Arthur. il Coal Age 27:645-7 Ap 30 '25
Underground management in bituminous mines. S. E. Thompson. Coal Age 24:845-6, 957-8; 25:137-8, 383-5 D 6, 27 '23, Ja 24, Mr 13 '24; Abstract. Monthly Labor R 17:1250-63 D '23
Wasted time at partings adds to cost of operation. il Coal Age 24:773-7, 811-14 N 22-29 '23
Would you increase tonnage and reduce cost? Island Creek has done it. R. D. Hall. il map Coal Age 28:341-6 S 10 '25

See also Coal miners; Coal mines and mining—Production data; Mine management

Power

Advance in steam-boiler practice in anthracite region. M. M. Price. diags Coal Age 24: 767-72 N 22 '23
Analysis of itemized coal mine costs with utility service. C. O. Dunten. Elec W 82: 1274-5 D 22 '23
Automatic control of direct current circuits in coal mines. T. F. McCarthy. Min Cong J 11:484-5+ O '25
Coal mine electrification; discussion. W. C. Adams. Am Inst E E J 44:895-6 Ag '25
Coal mines can make power economically in centralized generating plants. C. H. Matthews. il Coal Age 27:11-14 Ja 1 '25
Easily installed power lines and controls aid work of equipment in V system. C. O. Gallaher and G. B. Southward. il plans Coal Age 28:316-18 S 3 '25
Electric shovels lower coal-mining cost. il Elec W 85:1136-7 My 30 '25
Electrical engineers discuss ways in which savings in power cut mining costs. Coal Age 25:754-60 My 22 '24
Electricity in mines. E. I. David. il diags Inst E E J 63:521-36 Je '25; Abstracts. Elec R (Lond) 96:354-6, 392-3 F 27-Mr 6 '25; Electrician 94:242-3 F 27 '25; Engineer 139: 248 F 27 '25; Discussion. Inst E E J 63: 537-70 Je '25; Elec R (Lond) 95:356 F 27 '25; Electrician 94:243 F 27 '25
Engineers hear how coal firm entered power business. G. M. Kennedy. Coal Age 26:788 D 4 '24
Glen Alden generates and distributes more power than any utility firm in hard-coal region. E. J. Gealy. il Coal Age 26:82-90 Jl 17 '24
How some companies took time by the forelock this summer and are now being repaid. E. J. Gealy. il Coal Age 26:751-5 N 27 '24
How to save power and thus reduce maintenance and operating costs of mine machinery. W. H. Russell. il Coal Age 26:499-500 O 9 '24
Illinois mine generates own power cheaply. A. Allen and H. F. Hebley. il Coal Age 26: 3-7 Jl 3 '24
Making power contracts that will save your purse. W. H. Russell. Coal Age 26:437-8 S 25 '24
Many internal-combustion engines used at mines. J. H. Edwards. il Coal Age 27: 747-52 My 21 '25
Mine cuts and hauls coal with battery power. J. B. Hicks. il Coal Age 27:39-42 Ja 8 '25
Mine plant generates power from pulverized bone. F. H. Kneeland. il diags plan Coal Age 27:865-8 Je 11 '25
Mine substations properly equipped and located help cut down power costs. J. E. Borland. il Coal Age 28:421-5 S 24 '25
New power house at Whitwood collieries. il Elec R (Lond) 94:541-3 Ap 4 '24

COAL mines and mining—Power—*Continued*
Old Ben coal corporation effects large savings with modern electric equipment. A. W. Spaht and G. E. Marble. il Coal Age 28:3-6 Jl 2 '25
One company meters its loads at a common point cutting electric bills 19 per cent. A. MacDonald. il diag Coal Age 26:793-5 D 4 '24
Poor power factor loads cost more to maintain than to correct. W. B. Snyder. il Coal Age 27:281-4 F 19 '25
Portable power plants for coal mines. il Elec W 85:151-2 Ja 17 '25
Power-plant problem of the coal-mining company. G. Bright. Coal Age 24:896-7 D 13 '23
Power studies in Illinois coal mining. A. J. Hoskin and T: Fraser. diag map Ill U Eng Exp Sta Bul 144:1-80 '24
Pulverized anthracite slush burned at Lykens. il diags Power 60:2-7 Jl 1 '24; Same, without table. Coal Age 26:253-7 Ag 21 '24
Recent progress in use of electricity in coal mines. G. Bright. Coal Age 26:831-2; Discussion. 819-20 D 11 '24
Savings made by static condensers pay for equipment in few months. E. J. Gealy. il Coal Age 27:709-11 My 14 '25
Scottish colliery power station. il Elec R (Lond) 97:379-82 S 4 '25
Slope conveyor requires less power than shaft hoist. J. H. Edwards. il Coal Age 28:395 S 17 '25
Some colliery power supply problems. J. F. Perry. Elec R (Lond) 96:674-5; Discussion. 676 Ap 24 '25
Steam versus electricity in colliery practice. G: Raw. Elec R (Lond) 95:174-5 Ag 1 '24
Survey shows big percentage of Illinois mines generate their own electric energy. A. J. Hoskin. il Coal Age 25:631-2 My 1 '24
Synchronous apparatus can improve power factor. R. C. Muir. Coal Age 28:45-6 Jl 9 '25
This mine power plant produces power cheaply. C. L. Moorman. il Coal Age 25: 210-12 F 7 '24
Where the power in a coal mine is used or wasted. A. J. Hoskin. il Coal Age 25: 498-9 Ap 3 '24

Production data
Coal produced per man and average number of days worked per year by states in 1921, 1922 and 1923. Coal Age 26:802 D 4 '24
Hail to the new world's record coal mine! il Coal Age 32:834 D 11 '24
How output of men in mines varies with size of plant, seam thickness and labor relations. H. N. Eavenson. Coal Age 25:204-9 F 7 '24

Records
Indicating mine conditions by placing colored tacks on the mine map. J. C. White. Coal Age 25:403 Mr 13 '24

Safety measures
American and British engineers confer on coal mine safety. C. L. Colburn. il Nat Safety N 9:27-31 Ap '24
Barricades against gas save lives of 275 miners. Coal Age 25:242 F 14 '24
Britain drastically revises its shotfiring rules. Coal Age 26:646 N 6 '24
Coal mine explosion. C. L. Colburn. il Nat Safety N 9:37-8 Je '24
Coal mining institute seeks cure for frequently recurrent mine explosions. Coal Age 24: 947-51 D 27 '23; Nat Safety N 9:41-2 F '24
Coal mining men from many states talk at National safety council meeting. Coal Age 28:499-501 O 8 '25
Don't be a John Hardy—prevent explosions. S. L. Morrow. il Coal Age 28:628-31 N 5 '25
Engineering and safety problems of the coal mining industry of Great Britain. H. Walker. Coal Age 25:462-4 Mr 27 '24
Equipment and safety methods in Alabama. M. H. Fies. il diags Coal Age 26:580-1 O 23 '24
Great Britain revises its mine electrical rules. C. H. S. Tupholme. Coal Age 26:863-4 D 18 '24
How dangerous ground currents were prevented and confidence of workmen regained. E. E. Jones. il Coal Age 26:574-6 O 23 '24
How Old Ben corporation with rock dust extinguished seven mine explosions. J. E. Jones. il diags Coal Age 25:907-11 Je 19 '24; Same. Min Cong J 10:291-3 Jl '24
How we derailed a runaway accident record. H. F. Webb. il Nat Safety N 10:8 S '24
Hutton blasting gun newest device for shotfiring. il Coal Age 28:153 Jl 30 '25
Illinois mining institute discusses machine loading and rock dusting. Coal Age 28:83-5 Jl 16 '25
In any coal mine electricity will bear watching. L. C. Ilsley. il Coal Age 26:223-6 Ag 14 '24
Institute at the Salt Lake City meeting hears argument over Utah mine safety code. Coal Age 28:392-3 S 17 '25
Investigations into rock dusting for coal dust explosion prevention. G: S. Rice. Min Cong J 10:295-6 Jl '24
Is mud equal to rock dust for mine protection? il diag Coal Age 26:391-4 S 18 '24
Low-voltage current proves safest for shooting. A. C. Watts. il Coal Age 28:314-15 S 3 '25
Methods of rock dusting bituminous mines. E: Steidle. il Coal Age 26:825-9; 27:6-10 D 11 '24, Ja 1 '25; Discussion. 26:823-4 D 11 '24
Mine inspectors' institute in annual meeting discusses safe practices. J. H. Edwards. Coal Age 27:788-90 My 28 '25
Mine safety due for a boom in Illinois when new state council sets pace for national drive. il Coal Age 26:42-6 Jl 10 '24
Mine safety in Great Britain. J. T. Ryan. Nat Safety N 8:43-4 O '23
Mine safety measures considered. il Min Cong J 10:277-8 Je '24
Mine safety methods of the Ford collieries company. C. L. Colburn. il Nat Safety N 10: 31-3 Jl '24
Minimizing and localizing coal-mine explosions. W. C. Holman. il diags plan Coal Age 25:627-30 My 1 '24
Mining coal with safety. H. F. Webb. il Coal Age 27:35-8 Ja 8 '25
Nineteen years of coal mining without a fatality. R. S. Lambie. Nat Safety N 9:42 F '24
Organizing the mining industry for safety. F. Feehan. Coal Age 27:255-7 F 12 '25
Pittsburgh men fear menace of oil-and-gas wells. Coal Age 27:248 F 12 '25
Positive shooting circuit for mine shot firing. diag Nat Safety N 12:42 Ag '25
Present trend of electrical safety in coal mines. L. C. Ilsley. Am Inst E E J 43:341-4 Ap '24; Excerpts. Coal Age 25:569-71 Ap 17 '24
Prevention of coal-dust explosions and other accidents in coal mines. Monthly Labor R 18:1200-3 Je '24
Production and use of rock dust. R. Reddie. il diags Min Cong J 11:547-53+ N '25
Proposed law to make West Virginia mines safer. Coal Age 27:219-20 F 5 '25
Proposed national code for rock-dusting coal mines. il Nat Safety N 11:21-2 Ap '25
Quick determination of incombustible matter in coal and rock-dust mixtures in mines. A. C. Fieldner, W. A. Selvig and F. D. Osgood. [2d ed.] U S Bur Mines Tech Pa 144:1-34 '24
Rock dust as a preventive measure against explosions in coal mines. E: Steidle. Safety Eng 49:12-16 Ja '25
Rock-dust barriers have important part to play in protection of soft coal mines. G: S. Rice. il Coal Age 28:39-42 Jl 9 '25
Rock dust no cure-all, say Western engineers. E. W. Davidson and A. F. Brosky. il diag Coal Age 26:783-8 D 4 '24; Discussion. G: S. Rice. 27:301-2 F 19 '25
Rock dust now used in 62 Pennsylvania mines. Coal Age 28:283 Ag 27 '25

COAL mines and mining—Safety measures —*Continued*
Rock dust versus water as a preventive measure for mine explosions. E: Steidle. Min Cong J 10:298+ Jl '24
Rock dusting as discussed at Cincinnati. il Min Cong J 11:380-7 Ag '25
Rock dusting at the Old Ben coal corporation. J. E. Jones. il Min Cong J 11:226-8 My '25
Rock-dusting costs and practices. il Coal Age 27:832-3 Je 4 '25
Rock dusting of bituminous coal-mines. T: G. Fear. Eng Soc W Pa 41:15-20; Discussion. 21-31 F '25
Rock dusting of coal mines: efficacy, methods and costs. J: T. Ryan. Min Cong J 10:297+ Jl '24
Rock dusting practice of the Pittsburgh coal company. U. U. Carr. il Min Cong J 11: 224-5+ My '25
Rocky Mountain institute lays down safety code. Coal Age 26:289-92 Ag 28 '24
Rocky Mountain men develop new ideas in coal mining. Coal Age 27:359-63 Mr 5 '25
Rocky Mountain men strike new note in dusting at their summer session. Coal Age 26: 227-9 Ag 14 '24
Rocky Mountain region has many mine safety practices. D. Harrington. il Coal Age 27:389-93 Mr 12 '25
Roof, ribs and floor wetted by this sprinkler car. F. Scammel. diag Coal Age 26:267 Ag 21 '24
Run mines on batteries? every wire may be removed at Dawson to prevent explosions. il Coal Age 24:803-6 N 29 '23
Safe locomotive operation in coal mine haulage. H. T. Bannister. il Nat Safety N 11: 31-3 Mr '25
Safety earns men four times as much as company; experiences of U.S. coal & coke co. H. N. Eavenson. Coal Age 25:528 Ap 10 '24
Safety movement stirs Illinois mining men. E. W. Davidson. il Coal Age 27:146-51 Ja 22 '25
Safety stunts help miners protect themselves. il Coal Age 24:911-14 D 20 '23
Sampling of rock dust is necessary to safety. W. C. Holman. il Coal Age 27:184-5 Ja 29 '25
Shale dusting now spreading rapidly in Illinois. il diags plan Coal Age 25:683-8 My 8 '24
Some researches on the safe use of electricity in coal mines. W. M. Thornton. Inst E E J 62:481-91 Je '24; Same cond. Elec R (Lond) 94:231-3, 271-2 F 8-15 '24; Abstract. Electrician 92:162-3 F 8 '24; Discussion. Inst E E J 62:491-513, 918-20; 63:1038-40 Je, N '24, O '25; Elec R (Lond) 94:233 F 8 '24; Electrician 92: 165, 510 F 8, Ap 25 '24
Sources of limestone, gypsum, and anhydrite for dusting coal mines to prevent explosions. O. Bowles. U S Bur Mines Bul 247:1-68, pl 1-15 '25
Sprinkling at face, rock dusting on entries is Harrington's program for all mines. D. Harrington. il Coal Age 27:715-18 My 14 '25
Stone dusting: a means of safety which helps Britain to keep fatality rate one-third as large as ours. J. A. S. Ritson. il diag Coal Age 25:663-8 My 8 '24
Stone dusting or rock dusting to prevent coal-dust explosions, as practiced in Great Britain and France. G: S. Rice. U S Bur Mines Bul 225:1-54 '24; Abstract. Safety Eng 47:253-4+ My '24
Subcommittees on industrial relations report. Coal Age 25:321-2 F 28 '24
Too much guess work in mining. E. McAuliffe. Coal Age 26:287-8 Ag 28 '24
Twenty companies in Midwest and West rock dust for hundred miles of entry. E. W. Davidson. il Coal Age 27:71-3 Ja 15 '25
U.S. rules make mines in public lands safer. H. I. Smith. il diags Coal Age 26:8-11 Jl 3 '24
Utah adopts 100-per cent safety code following Castlegate blast. il Coal Age 25:574-5 Ap 17 '24
West tries everything in rock dusting. D. Harrington. il Coal Age 28:310-12 S 3 '25
What will it cost and what must be done to keep coal mines free from dust explosions? Coal Age 25:769 My 22 '24
Will rock dusting suffer by industry's enthusiasm? J. E. Jones. il diag Coal Age 27: 570-2 Ap 16 '25

See also Brattice cloth; Coal mines and mining—Explosions; Mining engineering—Safety measures

Standards

Progress in standardized and approved coal mining practice and equipment. W. R. Roberts. Min Cong J 11:155-7+ Ap '25

Stripping operations

Big English shovel loads Australian coal eight tons per dip. il Coal Age 27:5 Ja 1 '25
Coal-strip enterprises grow in western Kentucky. A. W. Williams. il Coal Age 25:127-9 Ja 24 '24
Coal stripper uses ice harvesters' method. D. M. Sutor. il Coal Age 25:415-17 Mr 20 '24
Coal stripping in west Kentucky. J. H. Edwards. il Coal Age 28:429-31 S 24 '25
Colstrip mine is country's first electrified pit. il Coal Age 28:248 Ag 20 '25; Same abr. Eng & Contr (G C) 63:1309 Je 17 '25
Colstrip's electrical equipment is unusual. V. A. Wolcott. il Coal Age 28:663-4 N 12 '25
Early coal stripping full of heartbreak. G. Holmes. il Coal Age 25:797-800, 835-9 My 29-Je 5 '24
Getting more work from a stripping shovel. A. F. Brosky. il Coal Age 26:141-4 Jl 31 '24
The Hartshorns open big Illinois strip pit. E. W. Davidson. il Coal Age 26:319-22 S 4 '24
Kentucky strip pit lifts 45 ft. of cover. il Coal Age 27:245-8 F 12 '25
Northern Pacific develops Rosebud coal field. H. E. Stevens. il Ry R 77:695-7 N 7 '25; Same. Coal Age 28:660-3 N 12 '25
Rosebud field in Montana wins new attention. T: E. Smith. il Coal Age 28:249-50 Ag 20 '25
Shovel bridge for stripping overburden. diags Eng & Min J 120:32 Jl 4 '25
Strip mine desirable load. A. Clabaugh. il Elec W 86:753-4 O 10 '25
Strip mines full of pitfalls for the unwary. G. Holmes. il Coal Age 26:211-16 Ag 14 '24
Stripping a twice-worked anthracite basin. F. H. Kneeland. il diag Coal Age 26:789-92 D 4 '24
Texas lignite field sets steam shovel to work. H. Marshall. il Coal Age 26:435-6 S 25 '24
Triple shifting makes big stripper profitable. F. H. Kneeland. il diags Coal Age 28:528-31 O 15 '25
Use elevating graders and a steam shovel in large North Dakota strip pits. il Coal Age 24:738 N 15 '23
Wasting strip pit spoil by means of a cableway. F. A. Kneeland. il Coal Age 27:3-5 Ja 1 '25

Study and teaching

Fuel engineering. C. M. Young. J Eng Educ 15:690-4 My '25

Taxation

Is this the remedy for low coal prices? J: Ise. Coal Age 28:469 O 1 '25

Valuation

Engineers' valuation committee appraises anthracite industry at $989,900,000; that of soft coal at $11,442,864,000. Coal Age 24:753-4 N 15 '23
Examining engineer's work plays vital part in financing of a coal mine property. J: A. Garcia. il maps Coal Age 28:275-80 Ag 27 '25
Narrowing the gulf between banker and promoter. P. H. Grossman. Coal Age 26:327-9 S 4 '24

Waste disposal

Aerial tram takes rock over steep hill to dump. F. H. Kneeland. il Coal Age 27:249-50 F 12 '25

COAL mines and mining—*Continued*

Africa

Natal mines four million tons of coal yearly. Coal Age 28:146 Jl 30 '25

Les richesses charbonnières du Zambèze. A. É. Gérard. map Soc Ing Civils Bul 77:244-61 pl 68 Ap '24

Alabama

Alabama coal-mining practices. M. H. Fies. map Coal Age 26:473-8, 509-12, 537-40, 577-81 O 2-23 '24

Edgewater mine produces large output of washed coal under adverse conditions. R. Hamilton. il diags plan Coal Age 28:241-7 Ag 20 '25

Marvel plant largest of any in Cahaba field. il map Coal Age 26:796-8 D 4 '24

Straight line production; Woodward iron cuts all unnecessary corners in reducing raw materials to high grade metal. F. J. Crolius. il Blast F & Steel Pl 12:232 My '24

Woodward iron co. develops Crockard mine to produce 5,000 tons. Coal Age 28:151 Jl 30 '25

See also Coal—Alabama

Alaska

Matanuska coal field mines only 7,000 tons monthly. Coal Age 26:896 D 25 '24

See also Coal—Alaska

Alberta

Lethbridge coal field developing rapidly. J: H. Turner. map Coal Age 25:459-61 Mr 27 '24

Arkansas

Longwall conveyors in the Paris coal field. H. Denman. il diags plan Coal Age 27: 353-6 Mr 5 '25

Belgium

Campine region—a coal field with no completed shaft less than two thousand feet deep. D. Adam. il diags map Coal Age 26: 247-51, 283-6 Ag 21-28 '24

Freezing process enables lessees to sink shafts in deep marsh land of north Belgium. M. Biquet. plans Coal Age 25:831-4 Je 5 '24

Les mines de la région de Mons et la faculté technique du Hainaut. P. Lecomte. Soc Ing Civils Bul 76:1075-9 O '23

Production and output in Belgian coal mines in 1923. Monthly Labor R 18:1052 My '24

See also Coal—Belgium; Coal miners—Belgium

British Columbia

Is the coal of Vancouver Island nearly exhausted? F. H. Mason. map Coal Age 24:777-8 N 22 '23

Vancouver Island has produced coal for 75 years. F. H. Mason. il Coal Age 27:906-7 Je 18 '25

Canada

See Coal miners—Canada

Colombia

Cauca Valley coal convenient to Panama. Coal Age 26:798 D 4 '24

Colorado

Steeply pitching coal beds, undercut by machine, are tapped by slope in shales below them. C: M. Schloss. il diags plan Coal Age 25:451-4 Mr 27 '24

Europe

What American coal mining may learn from Europe's mines. J: T. Ryan. il Coal Age 25:41-5 Ja 10 '24

France

Compte rendu de la visite aux mines de Béthune. P. E. Leroux. diags maps Soc Ing Civils Bul 77:660-96, pl 84 O '24

Compte rendu de la visite aux mines de Lens. P. E. Leroux. Soc Ing Civils Bul 77:651-9 O '24

Le développement de la production des houillères du Nord et du Pas-de-Calais, en 1923. Génie Civil 85:299 O 4 '24

Force motrice et extraction aux mines de Lens. E. Cuvelette. diags map plans Soc Ing Civils Bul 77:521-74, pl 76 O '24

French operators aid their miners and repair devastated plants. G. M. S. Tait. il Coal Age 25:256-7 F 14 '24

La reconstitution des charbonnages du Nord et du Pas-de-Calais. A. Pawlowski. il diags Génie Civil 87:161-5, 186-9 Ag 22-29 '25

La reconstitution des cokeries du Pas-de-Calais particulièrement aux mines de Lens et de Dourges. C: Berthelot. il diags Génie Civil 86:349-55, 379-84 Ap 11-18 '25

See also Coal—France; Coal miners—France

Great Britain

Maschinelle kohlengewinnung im rheinisch-westfälischen steinkohlenbergbau. F: Herbst. il diags Zeit Ver Deutsch Ing 69: 994-1003 Ag 1 '25

Great Britain

British coal industry opens doors to American observer. P. Wooton. Coal Age 24:732 N 15 '23

British mining discloses methods that may soon be seen in America. P. Wooton. Coal Age 26:373 S 11 '24

British solution of coal-mining problems. G: O. Smith. Coal Age 26:220-2 Ag 14 '24

Coal mining industry in 1923. Economist 98: 904 My 3 '24

Coal subvention. Economist 101:220-1 Ag 8 '25

Deep Betteshanger mine in Kent shows present-day British practice. Coal Age 25:878 Je 12 '24

Fuel. G: W: Andrew. 208p E. Benn, ltd., London; Van Nostrand, N. Y. '24

Historical review of coal mining. 377p Pub. for Mining assn. of Gt. Brit. by Fleetway press, London '24

Lloyd George committee's report on British coal and power published. Power 60:194 Jl 29 '24

Many-sided British coal crisis. P. W. Wilson. Annalist 26:278+ S 4 '25

See also Coal miners—Great Britain

Illinois

Coal situation in Illinois. E. Stewart. Monthly Labor R 20:962-9 My '25

Illinois coal corporation is building huge mine at Nason despite adverse economic conditions. il Coal Age 25:535-6 Ap 10 '24

Method of increasing lump-coal production, with especial reference to southern Illinois. J. E. Tiffany and J. J. McKitterick. diags Min Cong J 11:486-8+ O '25

New Orient grooming to beat all records. il diag map Coal Age 27:394-8 Mr 12 '25

Zeigler no. 1 shaft breaks world's coal production record by hoisting 189,240 tons in month of October. il Coal Age 26:722 N 20 '24

See also Coal miners—Illinois

India

Coal mining in India. S. W. Farnham. il Coal Age 25:944 Je 26 '24

Indiana

Learning the bottom facts in Indiana. J. H. Edwards. il Coal Age 28:281-3 Ag 27 '25

Ireland

County Tyrone colliery. Engineer 138:148 Ag 1 '24

Exploitation of an Ulster coalfield. Engineering 118:175 Ag 1 '24

Kentucky

"Befo' de wah" mine yields curious relics; Bell property of west Kentucky. E. W. Davidson. il plan Coal Age 25:273-6 F 21 '24

Coal industry in Kentucky. W. R. Jillson. 2d ed., rev. & enl. 164p [bibliog. p. 137-53] Kentucky geol. survey, Frankfort '24

COAL mines and mining—Kentucky—*Cont.*
Coal-strip enterprises grow in western Kentucky. A. W. Williams. il Coal Age 25: 127-9 Ja 24 '24
Coal stripping in west Kentucky. J. H. Edwards. il Coal Age 28:429-31 S 24 '25
Dudley mine's unusual dump and picking methods. W. R. Cole. il map Coal Age 26: 355-8 S 11 '24
Kentucky strip pit lifts 45 ft. of cover. il Coal Age 27:245-8 F 12 '25
New Kentucky mine has some cost-reducing features. il Coal Age 28:152-3 Jl 30 '25

Maryland

Modern concentration mining succeeds where past methods failed in Old Detmold mine. E. Read. il diags Coal Age 28:385-90 S 17 '25

Montana

Northern Pacific develops Rosebud coal field. H. E. Stevens. il Ry R 77:695-7 N 7 '25; Same. Coal Age 28:660-3 N 12 '25

Netherlands

Les charbonnages de l'état, dans le Limbourg hollandais. maps Génie Civil 86:338-40 Ap 4 '25

New South Wales

Coal resources of New South Wales. New South Wales Geol S Bul 6:1-154 '25

North Carolina

North Carolina mines may have byproduct ovens. J. H. Rose. Coal Age 26:394 S 18 '24

Ontario

Geology of the mine workings of Cobalt and south Lorrain silver areas. C. W. Knight. 374p Ontario Dept. of mines, Toronto '24

Pennsylvania

Anthracite. J: K. Mumford. 150p Industries pub. co., New York '25
Bituminous coal losses and mining methods in Pennsylvania. J. D. Sisler. 216p Penn. Dept. of forests and waters, Harrisburg '24
How much coal is left in Pennsylvania? O. R. Kuhn. map Coal Age 27:209-14 F 5 '25
Kramer mine is built to produce 4,000 tons a day from 48-in. coal. A. F. Brosky. il Coal Age 28:75-7 Jl 16 '25
Much anthracite lost in mining and preparation. H. H. Otto. il diags Coal Age 27:285-92 F 19 '25
Susquehanna collieries co. is rapidly modernizing its properties and making savings. E. J. Gealy. il diags plan Coal Age 28:209-15 Ag 13 '25

See also Coal miners—Pennsylvania

Poland

See also Coal miners—Poland

Rhodesia

Southern Rhodesia has seven billion tons of good coal 20 to 46 ft. thick. Coal Age 26: 688 N 13 '24

Ruhr valley

Der neue vertrag des Ruhrkohlenbergbaus. A. Heinrichsbauer. Stahl & Eisen 45:1028-31 Je 25 '25
Les services d'exploitation directe organisés dans la Ruhr par la Mission interalliée du contrôle des usines et des mines. P. Séverac. map Génie Civil 86:5-9 Ja 3 '25

Russia

Russian coal industry; the Donetz coalfield. Economist 98:46-7 Ja 12 '24
Soviet government seeks reform in federal control of coal mining industry. Coal Age 27:47 Ja 8 '25

Southern states

Production and potentialities of the South's coal fields. W. T. Thom, jr. Manuf Rec 86: 297-303 pt 2 D 11 '24

Spitzbergen

Spitzbergen, the new coal bin of Norway. Coal Age 26:657 N 6 '24

Tennessee

Long-face mining in thin Tennessee bed. il Coal Age 27:507 Ap 2 '25

United States

Bituminous coal mined by different methods in the United States in 1923. Coal Age 27: 298 F 19 '25
Extent of operation of bituminous coal mines. Monthly Labor R 18:600, 832-9; 19:427, 626 Mr-Ap, Ag-S '24
Number and output in net tons of soft-coal mines in United States in 1923, by classes. Coal Age 26:730 N 20 '24
Operating regulations to govern coal mining methods and the safety and welfare of miners on leased lands on the public domain. 48p U.S. Bur. of mines, Washington '23
Shifts in production of bituminous coal in 1924. F. G. Tryon, W. F. McKenney and R. M. McKinney. Coal Age 27:329-31 F 26 '25

See also Coal—United States; Coal miners—United States; Coal supply—United States; Coal trade—United States

Utah

Coal mining in Utah. C. A. Allen. U S Bur Mines Tech Pa 345:1-11 '25

Virginia

Long incline and modern top works serve mountain mine in Virginia. J. W. Wilson. il Coal Age 28:107-11 Jl 23 '25
Mine engineers inspect big progress in Southland. R. D. Hall. il Coal Age 26:582-4 O 23 '24
Valley coal fields of Virginia. M. R. Campbell. Virginia Geol S Bul 25:1-322 '25
Valley coals of Virginia present unusually difficult operating conditions. maps Coal Age 25:311-15 F 28 '24

Wales

South Wales coal region is principal competitor of American mining districts. H. Williams. map Coal Age 25:726-7 My 15 '24

Washington

Coal-mining problems in the state of Washington. G: W. Evans. diags map U S Bur Mines Bul 190:1-79, pl 1-7 '24
System of coal mining in western Washington. S. H. Ash. il diags Coal Age 27:325-8, 425-30, 465-70, 502-7 F 26, Mr 19-Ap 2 '25

West Virginia

Better methods and improved equipment increase production at Beech Bottom mine, Power, W.Va. A. F. Brosky. il diags Coal Age 25:521-7 Ap 10 '24
Coal industry of the state of West Virginia. 64p Northern West Virginia coal operators' assn., Fairmont '23
Fight against the public welfare is involved in the fight against West Virginia coal. W. M. Wiley. Manuf Rec 85:103-4 Ap 3 '24
Island Creek mines. Coal Age 28:341-64 S 10 '25
Lewis mine provides against electrical shutdown and uses block system of development. A. F. Brosky. il Coal Age 25:343-6 Mr 6 '24
These mines run on schedule as railroads do. A. F. Brosky. il diags plan Coal Age 28:555-60 O 22 '25
Truth about Coal river collieries. 16p United mine workers of America, Indianapolis Ja '25
West Virginia coal mining institute meeting at Logan discuss gases, substations, geology, and coal cleaning. R. D. Hall. il Coal Age 27:871-5 Je 11 '25

See also Coal miners—West Virginia

COAL mines and mining—*Continued*

Wyoming

Shaking conveyor eases labor in pitching coal. R. D. Hall. il diags plan Coal Age 28:657-9 N 12 '25

COAL mines and mining, Cooperative. See Mining, Cooperative

COAL mining institute of America

Annual meeting, 47th, Pittsburgh, Pa., Dec. 19-21. Nat Safety N 9:41-2 F '24

Annual meeting, 48th, Pittsburgh, Pa., Dec. 3-5. R. D. Hall. il Coal Age 26:819-24 D 11 '24

COAL mining machinery

Aerial tramway solves rock disposal problem. A. F. Brosky. il diags Coal Age 26: 363-6 S 11 '24

Belt rides on wheels in new-type sectional coal face conveyor. A. F. Brosky. il Coal Age 28:112-13 Jl 23 '25

Braunkohlenbagger; abstract. diags Elektrotech Zeit 45:215 Mr 13 '24

Coal face conveyors. A. V. Reis. il diags plans Cassier's Ind Management 12:247-51+ Ap '25

Coal handling below ground. N. W. Elmer. Mech Eng 47:700 S '25

Colliery at the British Empire exhibition. diags Engineering 117:677-80, 726-9, 756-9, 793-5, 798, pl 65-7; 118:49-51, 158-60, 190-3, 224-7, 251-2, 338-42, 411-14, 528-30, pl 21-2 My 23, Je 6-20, Jl 11, Ag 1-22, S 5, 19, O 10 '24; Elec R (Lond) 94:1007-11, 1032-3 Je 20-27 '24; Engineer 138:65-8 Jl 18 '24

Early coal stripping full of heartbreak. G. Holmes. il Coal Age 25:797-800, 835-9 My 29-Je 5 '24

Emploi de haveuses et de toiles transporteuses aux houillères de Bessèges (Gard). L. Desruelles. diags plan Génie Civil 83:409-10 O 27 '23

Face conveyors work better in longwall mining than with half-V plan at Sweetwater. il diag Coal Age 28:521-3 O 15 '25

Frick conveyor system proves its efficiency. diags plan Coal Age 28:426-8 S 24 '25

Little giant permissible coal drill. il Coal Age 27:349 F 26 '25

Maschinelle kohlengewinnung im rheinisch-westfälischen steinkohlenbergbau. F: Herbst. il diags Zeit Ver Deutsch Ing 69:994-1003 Ag 1 '25

Mechanical handling machinery at the British Empire exhibition, Wembley. il diags Cassier's Ind Management 11:385-7 Ag '24

Mining machines in use in the United States in 1905, 1914, 1920 and 1922; tabulation. Coal Age 24:780 N 22 '23

New methods of operation reduce production cost. Coal Age 25:879 Je 12 '24

Portable conveyors in mining service. il Coal Age 27:830-2 Je 4 '25

Rugged all-steel sectional portable conveyor co-ordinates mining and haulage. il diags plan Coal Age 25:669-72 My 8 '24

Slope conveyor requires less power than shaft hoist. J. H. Edwards. il Coal Age 28:395 S 17 '25

Three-ton scraper pulls coal from face swiftly. R. D. Hall. il diags plan Coal Age 28: 485-7 O 8 '25

Use of storage batteries in mines. J. B. Hicks. Min Cong J 11:331-2+ Jl '25

What everyone in the industry should know about handling of mining machinery. T. F. McCarthy. il Coal Age 25:307-10 F 28 '24

See also Coal breakers; Coal crushers; Coal cutters; Coal loading machines; Rock-dusting machines; Shoveling machines

Exhibitions

National exposition coal mining equipment. il Min Cong J 10:272-6 Je '24

New equipment shown at Cincinnati convention. F. H. Kneeland. il Coal Age 25:772-7 My 22 '24

New equipment shown at Cincinnati. F. H. Kneeland. il diags Coal Age 27:837-43 Je 4 '25

Repair

How skillful use of drill press minimizes consumption of time in repair work. G. H. Radebaugh. il Coal Age 24:699-705 N 8 '23

System without red tape keeps costs down. J. H. Edwards. il Coal Age 28:347-54 S 10 '25

COAL mixing

Some observations on the mixing of coals for carbonization. J. D. Davis. Am Gas Assn Technical sec v 5:991-7 '23

COAL piers

Coal shipping and bunkering at British ports. F. J. Warden-Stevens. bibliog il diags Cassier's Ind Management 12:44-57 Ja '25

Coal shipping plant at the port of Sunderland (River Wear commission). G: F: Zimmer. il diags Cassier's Ind Management 12:179-83 Mr '25

Coaling staith on the River Tyne at Whitehill Point. il diag Engineering 119:134-5 Ja 30 '25: Engineer 139:134, 141-2 Ja 30 '25

Loading coal for ocean shipment at Sewalls Point, Va. il diags plan Iron Age 116:405-7 Ag 13 '25

New coal pier at Hampton Roads, Virginia Ry. il diags maps plans Ry R 74:487-98 Mr 15 '24

Notes on laitance. R. M. Miller. il diags Am Concrete Inst Pro 21:68-79 '25; Same. Ry R 77:527-30 O 3 '25; Same cond. Concrete 26: 97-8 Mr '25; Same cond. Eng & Contr (G C) 64:887-92 O 21 '25; Discussion. Am Concrete Inst Pro 21:80-4 '25

Pennsylvania builds large car dumper in record time. il diags plan Ry Age 79:839-43 N 7 '25

Virginian Ry. builds double car-dumper coaling pier. il diags plan Eng N 93:452-5 S 18 '24

Electric equipment

Electrically-driven belt coal conveyors; the South docks, Sunderland, installation. il Elec R (Lond) 95:181-2 Ag 1 '24

Electrically-operated coal pier of the Western Maryland railway company. R. W. McNeill. il Elec J 20:329-33 S '23; Same. Eng & Contr (Ry) 60:1283-7 D 19 '23

Modern practice of handling coal in bulk at coal piers. J. W. Speer. il Elec J 21:260-5 Je '24

New Western Maryland Ry. coal pier is electrically operated. il Coal Age 25:48 Ja 10 '24

COAL preparation

Compte rendu de la visite aux mines de Béthune. P. E. Leroux. diags maps Soc Ing Civils Bul 77:660-96, pl 80 O '24.

Kohlenaufbereitung nach neuzeitlichen grundsätzen. E. Dupierry. diags Zeit Ver Deutsch Ing 68:905-7 Ag 30 '24

Much high-grade material in inferior coals which sand flotation can release. H. M. Chance. il Coal Age 25:633-5 My 1 '24

Problems in preparation of coal for market. C. W. Smith. Min Cong J 11:442-3 S '25

Proper handling helps make mine output clean. A. F. Brosky. il diag Coal Age 28:355-8 S 10 '25

Rivesville plant dumps coal in mines and moves it by belt to tipple. il Coal Age 27: 542-3 Ap 9 '25

Three methods of preparation and two of shipment embodied in design of Indiana tipple. il Coal Age 25:233-4 F 14 '24

Über steinkohlenaufbereitung. W. Gross. il diags Zeit Ver Deutsch Ing 69:975-80 Jl 25 '25

See also Coal, Pulverized—Preparation; Coal breakers; Coal cleaning; Coal crushers; Coal drying; Coal screening; Coal tipples; Coal washing

COAL prices. See Coal—Prices

COAL products

Coal products chart. A. Lowy. Ind & Eng Chem 16:26 Ja '24

See also Coal distillation; Coal tar; Coal-tar products; Coke; Gas manufacture—By-products

COAL purchasing
Effective method for keeping fuel costs within bounds. G. M. Levy. Factory 32:40-2 Ja '24
Financing purchase of coal for employees. Elec Ry J 63:972 Je 21 '24
Money may be saved by judicious spending. A. F. Sheehan. Power Pl Eng 29:709 Jl 1 '25
Purchasing fuel by specification. Cassier's Ind Management 11:169-70 Mr 20 '24
See also Coal contracts; Coal storage

COAL resins
Notes on two fossil coal resins. L. L. Steele. Am J Sci 5th ser 7:389-92 My '24

COAL River and Eastern railroad
Certificate for B. of L.E. road withheld. Ry Age 78:265-6 Ja 24 '25
I.C.C. examiner recommends denial of certificate for Coal River & Eastern, a Brotherhood property. Ry Age 77:424-5 S 6 '24

COAL sampling
Coal test data form. Elec W 83:679 Ap 5 '24
Equipment and safety methods in Alabama. M. H. Fies. il diags Coal Age 26:578-80 O 23 '24
Investigation of a method for the sampling of coal cargoes. F. H. Walker. Soc Chem Ind J 44:283-5 Je 12 '25; Same cond. Gas J (Lond) 170:470 My 13 '25
Sampling coal in mines. Power Pl Eng 28:126 Ja 15 '24
See also Coal—Analysis

COAL screening
H-H concentrating table. il Gas J (Lond) 165: 312 F 6 '24
How to clean and size coal so that a favorable market can be maintained. il Coal Age 25:761-4 My 22 '24
New coal cleaning plant has a pneumatic process. R. W. Arms. il Coal Age 28:567-8 O 22 '25
Screen sizing of coal, ores and other minerals. E. A. Holbrook and T. Fraser. il diags U S Bur Mines Bul 234:1-140, pl 1-23 '25

COAL shortage. See Coal supply

COAL storage
Adiabatic method for studying spontaneous heating of coal. J. D. Davis and J. F. Byrne. diag Am Cer Soc J 7:809-16 N '24
Carbon dioxide as an index of the critical oxidation temperature for coal in storage. S. W. Parr and C. C. Coons. il diag Ind & Eng Chem 17:118-20 F '25
Chemists study coal storage and spontaneous combustion. Power 60:439-40 S 9 '24
Coal piles that light themselves. J. F. Springer. il Sci Am 131:104 Ag '24
Coal storage and the avoidance of spontaneous combustion. J. B. C. Kershaw. il diags Gas Age 53:787-9 Je 7 '24
Coal storage and the railroads. R. H. Aishton. il Management & Adm 8:473-4 N '24
Coal-storage systems. H. E. Birch and H. V. Coes. il diags plan Mech Eng 46:189-96 Ap '24; Abstract. Power 58:939-40 D 11 '23; Same. Cassier's Ind Management 11:55-6 Ja 24 '24; Discussion. Mech Eng 46:196-8+ Ap '24
Coal-storage systems for large plants. il Power 59:172-3 Ja 29 '24
Compacting coal stops fires. il Aera 13:223-5 S '24
Conditions favorable to heating of coal in storage. S. W. Parr. Coal Age 26:366 S 11 '24; Same. Gas Age 54:508 O 11 '24
Control of power production. C: L. Hubbard. il Factory 33:805-8+ D '24
Deterioration and spontaneous combustion of coal in storage. S. W. Parr. Ind & Eng Chem 17:120-3 F '25
Deterioration of Midwest coals under different storage conditions—effect on burning qualities. N. R. Beagle. Ind & Eng Chem 17:123-5 F '25
Economic phases of coal storage. F. G. Tryon and W. F. McKenney. Mech Eng 46: 73-6+ F '24; Same cond. Textile World 65: 1617+ Mr 1 '24; Abstracts. Coal Age 24: 924-6 D 20 '23; Power 58:940-1 D 11 '23
Engineers study needs of industrial centers in coal storage report. Coal Age 26:433 S 25 '24
Experience in controlling spontaneous combustion in stored coal. J. W. Rupert. Power 59:260 F 12 '24
Factors governing the storage of coal. Power Pl Eng 29:523-5 My 15 '25
Factors in the spontaneous combustion of coal. O. P. Hood. Mech Eng 45:691+ D '23; Same. Am Gas J 119:676-7+ D 29 '23; Same. Engineering 117:160 F 1 '24; Same cond. Cassier's Ind Management 62:56-7 Ja 24 '24
Fedco protectometer systems for stored coal. il diag Power 58:850 N 27 '23
Financing storage of coal practical. Iron Tr R 75:1369 N 20 '24
Importance of industrial storage; details worked out by American engineering council. Iron Age 114:859-60 O 2 '24
Is coal storage worth while? il Power 59:42-4 Ja 8 '24
Outline of engineer's coal storage report. Power 59:152 Ja 22 '24
Overcoming coal-pile fires. J. W. MacKenzie. il Elec W 84:1111 N 22 '24
Oxidation of coal at storage temperatures. S. W. Parr and R. T. Milner. il Ind & Eng Chem 17:115-17 F '25
Oxidation of sulfur as a factor in coal storage. S. W. Parr and E. R. Hilgard. il Ind & Eng Chem 17:117-18 F '25
Report of fuel association's committee on storage coal. Ry R 74:1263-4 Je 28 '24
Scientific coal storage. Blast F & Steel Pl 12:418-20 S '24
Seasonal storage of coal; summary report of the storage of coal committee of the Federated American engineering societies. Mech Eng 46:498-500 Ag '24; Same. Gas Age 54: 247-8+ Ag 23 '24; Same. Management & Adm 8:197-9 Ag '24; Same. Textile World 66: 1295+ S 6 '24; Excerpts. Coal Age 26:52 Jl 10 '24; Iron Age 114:146 Jl 17 '24; Power 60:75 Jl 8 '24; Ry R 75:47-8 Jl 12 '24
Sentinel device for the safe storage of coal. il Gas Age 52:762 D 22 '23
Soft coal storage. Safety Eng 46:296 D '23
Some methods of storing coal. il diag Power 59:96-8 Ja 15 '24
Spontaneous combustion and clinkering. H. W. Brooks, J. D. Davis and W. A. Selvig. Elec W 84:175 Jl 26 '24
Spontaneous combustion of coal. J. I. Graham. Soc Chem Ind J (Chem & Ind) 43:89-90 Ja 25 '24; Soc Chem Ind J 43:79-87 Ap 4 '24
Spontaneous combustion of coal; characteristics shown by an adiabatic calorimeter. J. D. Davis and J. F. Byrne. Ind & Eng Chem 17:125-30 F '25
Spontaneous combustion of stored coal. il Sci Am 130:247 Ap '24
Storage and handling of bituminous coal. Can Eng 49:219 Ag 11 '25
Storage of bituminous coal. W. L. Abbott. Power 58:513-14 S 25 '23; Same. Ind Management (Lond) 10:313-14 N 29 '23
Storage of coal. O. P. Hood. Ann Am Acad 111:165-6 Ja '24
Store your coal now. R. B. Williams. il diags Paper 34:614-15 Jl 24 '24; Same cond. Power Pl Eng 28:866-7 Ag 15 '24
Store your coal now; ways and means for storing bituminous coal. R. B. Williams. il plan Blast F & Steel Pl 13:361-3 S '25
Storing coal by packing it down. Power 62: 237 Ag 18 '25
Storing coal in hollow-tile silo. il Iron Age 114: 1675-6 D 25 '24
Storing coal without danger of spontaneous combustion. J. R. McCausland. il Management & Adm 9:379 Ap '25
Submerged storage and coal handling equipment at Philo. il diags Power 61:976-9 Je 23 '25
What to avoid when storing soft coal. A. J. Hoskin. il Coal Age 25:840-2 Je 5 '24
See also Coal bins, Concrete; Coal houses; Coaling stations

COAL strike, 1922
How strike of 1922 affected working forces. Coal Age 25:538 Ap 10 '24

COAL strike, 1925
Anthracite men lay down tools with no prospect of peace. S. A. Hale. Coal Age 28:320-1 S 3 '25
Consequences of the anthracite strike. G: H. Cushing. Min Cong J 11:530-1 N '25
Issues in the anthracite strike. Comm & Fin Chr 121:1308-9, 1406-7 S 12-19 '25
Miners suspend work in anthracite coal fields. Comm & Fin Chr 121:1184 S 5 '25
Pinch near in anthracite strike indicated by recent developments. Coal Age 28:569-70 O 22 '25
Will the strike stop coal deflation? G. H. Cushing. Min Cong J 11:467+ O '25

COAL strikes
How strong is the miners' union? S. A. Hale. chart map Coal Age 28:417-20 S 24 '25

COAL supply
Enough coal for many ages. Am Ind 26:22+ S '25
Fuel situation. Factory 34:40 Ja '25

See also Coal consumption; Coal trade

Clean coal

Buying coal on a guaranteed basis; results of efforts of Southern Ohio pig iron and coke association to improve fuel. Iron Age 114:1069 O 23 '24
Campaign for clean coal meeting with success, Ohio engineers report. Coal Age 26: 661 N 6 '24
Clean coal discussed at Southern Ohio pig iron and coke association meeting. Iron Age 115:1646 Je 4 '25
Clean coal; how to get it. R. H. Sweetser. il Iron Tr R 76:1183-5+, 1315-17, 1445-6, 1575-7; 77:10-11, 134-7 My 7, 21, Je 4, 18, Jl 2, 16 '25
High-ash coal costly to steel industry. R. H. Sweetser. Iron Tr R 73:1362 N 15 '23; Same. Blast F & Steel Pl 12:103+ F '24
Mining clean metallurgical coal. R. P. Hudson. Iron Tr R 75:1638+ D 18 '24

Statistics

Coal produced in the principal countries of the world in the calendar years 1922, 1923 and 1924. Coal Age 27:546 Ap 9 '25
Die kohlenwirtschaft des Deutschen Reiches und der welt in den jahren 1922 und 1923. Stahl & Eisen 44:1158-63 S 18 '24
Production of bituminous coal producers classified by size of output in 1895, in net tons. Coal Age 24:885 D 13 '23
Quiet business boom responsible for coal output last year exceeded but once in time of peace. diag Coal Age 25:65-6 Ja 17 '24
What the World power conference showed about the world's natural power resources. maps Elec W 84:511-14 S 13 '24; Discussion. 84:1158 N 29 '24
World's coal output, January-June, 1923, well in advance of last year. Coal Age 24:705 N 8 '23
World's production of coal in 1923. Coal Age 25:955 Je 26 '24; Abstract. Power 59:624 Ap 15 '24

Canada

Coal problem of eastern Canada. E. S. Moore. Can Eng 48:219-21 F 10 '25
Coke to replace anthracite in Canada. Can Eng 48:449 Ap 28 '25
Utilization of water power in Canada. diag Can Eng 46:601-4 Je 10 '24

France

Les services d'exploitation directe organisés dans la Ruhr par la Mission interalliée de contrôle des usines et des mines. P. Séverac. Génie Civil 86:33-5 Ja 10 '25

Germany

German coal industry seeks way out of debris of Ruhr blockade. H. O. Herzog. Coal Age 25:107-9 Ja 17 '24
Les services d'exploitation directe organisés dans la Ruhr par la Mission interalliée de contrôle des usines et des mines. P. Séverac. Génie Civil 86:33-5 Ja 10 '25

Great Britain

Physical and chemical survey of the national coal resources. Engineering 119:394 Mr 27 '25

United States

Ample bituminous coal available as a substitute for anthracite. Comm & Fin Chr 121: 1307-8 S 12 '25
Anthracite field has 670,000 tons of domestic coal now. R. J. Arthur. Coal Age 28:604 O 29 '25
Are captive mines on the increase? E. W. Davidson. diags Coal Age 25:73-6 Ja 17 '24
Consumers' reserves of soft coal shrink to 47,000,000 tons on Sept. 1. Coal Age 26:550-1 O 16 '24
Consumers' stocks of soft coal fell to 38,000,000 tons June 1; hard-coal reserves for 52 days. Coal Age 28:54-5 Jl 9 '25
545,400,000 tons of bituminous coal produced in United States in 1923. Coal Age 25:505 Ap 3 '24
Government reports on coal in storage, June 1. Power Pl Eng 29:804-5 Ag 1 '25
Importance of industrial storage; details worked out by American engineering council. Iron Age 114:859-60 O 2 '24
Revised estimates of monthly production of soft coal by states in 1924. Coal Age 27: 334 F 26 '25
Stockpiles of soft coal near peak Jan. 1 with 62,000,000 tons. maps Coal Age 25:325-7 F 28 '24
Storage supplies of coal lowest in over two years. Ry Age 79:212-13 Ag 1 '25

COAL tar
Bayerns kohlenschätze und die aussichten ihrer verwertung. H. Fromm. map Zeit Ver Deutsch Ing 69:573-6 Ap 25 '25
Coal and coal tar. Sci Am 130:390+ Je '24
Comparative study of some coal tars produced by low-temperature carbonisation. K. B. Edwards. charts Soc Chem Ind J 43: 143-8, 149-56 My 9-16 '24
Constituents of coal tar. P. E. Spielmann. 219p Longmans '24
Cooling gas and the tar output. M. Binder and E. Wagner. diag Am Gas J 122:331+ Ap 18 '25
Cracking of low-temperature coal tar and conversion products. J. C. Morrell and G. Egloff. Ind & Eng Chem 17:473-5 My '25; Same. Gas Age 55:733-4+ My 23 '25
Extraction of phenols from tar oils by the caustic soda process. J. J. Morgan and M. H. Meighan. bibliog Ind & Eng Chem 17: 696-700 Jl '25
Low temperature tar. F. Schütz, W. Buschmann and H. Wissebach. Chem Soc J 124 pt 1:1080-1 N '23
Low-temperature tar from bituminous coal. J. J. Morgan. Soc Chem Ind J (Chem & Ind) 42:1178-82 D 7 '23
Researches on vertical retort tars; the phenolic constituents. G. S. Currey. Soc Chem Ind J 42:379-86 S 21 '23; Abstract. Gas J (Lond) 164:713 D 12 '23
Study of the destructive distillation of coal. E. V. Evans. il diags Gas J (Lond) 165:550-9 Mr 5 '24
Study of the tars and oils obtained from coal. F. S. Sinnatt and J. G. King. il Soc Chem Ind J 44:413-24 Ag 14 '25; Abstract. Gas J (Lond) 171:279-80 Jl 29 '25

See also Gas manufacture—By-products; Roads, Tarred; Tar

COAL-tar colors
Chemistry and colour. Soc Chem Ind J (Chem & Ind) 44:628-30 Je 19 '25
Faraday as a chemist. W: J. Pope. Soc Chem Ind J (Chem & Ind) 44:630-4 Je 19 '25
Record of the coal-tar color industry at Albany. E. Hendrick. Ind & Eng Chem 16: 411-13 Ap '24

COAL-tar colors—*Continued*
Some early attempts to establish the aniline industry in United States. V: G. Bloede. Ind & Eng Chem 16:409-11 Ap '24
Swiss dye earnings in 1924. Oil Paint & Drug Rep 107:80 Jl 6 '25

See also Aniline black; Dyes and dyeing; Indigo; Isoquinoline

COAL-tar products
Coal tar distillation and working up of tar products. A. R. Warnes. 3d ed., rev. & enl. 496p Van Nostrand '23; Review. Gas J (Lond) 165:367-8 F 13 '24
Coal-tar output steadies in 1924. Chem & Met Eng 32:127-9 Ja 19 '25
Coal tar products: market review. Oil Paint & Drug Rep 105:56-7 Mr 20 '24
Coal tar products; market review. Oil Paint & Drug Rep 107:58-61 Mr 26 '25
Coal tar products; recent developments in their application. chart Chem Age (Lond) 11:545-7 N 29 '24
Family tree products based on coal tar. il Sci Am 130:373 Je '24
First four months active period in coal-tar products. E. J. Barber. Chem & Met Eng 30:91 Ja 21 '24
Gain in output of coal-tar products in 1923. Chem & Met Eng 30:103 Ja 21 '24
Industrial applications of coal tar products. H. M. Bunbury and A. Davidson. Chem Age (Lond) 13:296-8 S 19 '25
Pure coal-tar constituents and their possibilities. Chem Age (Lond) 11:542-3 N 29 '24
Side lines in the coal-tar industry. Color Tr J 16:36-8 F '25
Table of coal products and derivatives. J. E. Guest. Chem Age (Lond) 11:544 N 29 '24
Tar distillation; crude derivatives and uses. J. H. Readio. diags Gas Age 53:213-18+, 251-4+ F 23-Mr 1 '24; Abstract. Am Gas J 120:391-2+ Ap 26 '24
Die umwandlung der kohle in öle. F. Fischer. 367p Gebrüder Borntraeger, Berlin '24

See also Benzene; Coal distillation; Cresol; Isoquinoline; Naphthalene; Phenol; Toluene; Xylene

Prices

Coal-tar products. Published in Chemical and metallurgical engineering and Oil paint and drug reporter

COAL tipples
Brief description of the new steel tipple recently built by the Spring Canyon coal co., Spring Canyon, Utah. G: A. Murphy. il Coal Age 28:632-3 N 5 '25
Build everything of concrete is O'Gara policy. R. D. Brown. flow sheet il diags plans Coal Age 25:557-62 Ap 17 '24
Discarded tires retard coal over tipple chutes. I. J. Ely. diag Coal Age 27:182-3 Ja 29 '25
Face conveyors work better in longwall mining than with half-V plan at Sweetwater. il diag Coal Age 28:521-3 O 15 '25
Kippenmechanisierung in braunkohlen-tagebaubetrieben. F. Brennecke. diags Zeit Ver Deutsch Ing 68:817-20 Ag 9 '24
Kramer mine is built to produce 4,000 tons a day from 48-in. coal. A. F. Brosky. il Coal Age 28:75-7 Jl 16 '25
Long incline and modern top works serve mountain mine in Virginia. J. W. Wilson. il Coal Age 28:107-11 Jl 23 '25
Mine management should furnish data when new tipple is to be designed. A. F. Brosky. Coal Age 25:834 Je 5 '24
Rivesville plant dumps coal in mines and moves it by belt to tipple. il Coal Age 27:542-3 Ap 9 '25
Three methods of preparation and two of shipment embodied in design of Indiana tipple. il Coal Age 25:233-4 F 14 '24
Tipple inspection cuts down delays for Island Creek coal co. Coal Age 27:678 My 7 '25
Twin-rope skip hoist works well. A. Allen and H. F. Hebley. il plans Coal Age 25:935-40 Je 26 '24

COAL trade
American mining congress convention, Sacramento, Sept. 29-Oct. 4. Coal Age 26:547 O 16 '24
American wholesale coal association 8th annual convention, French Lick, Ind., June 1-2. Coal Age 27:847 Je 4 '25
Anthracite must reframe merchandising policies to checkmate aggressive competition. S. A. Hale. il Coal Age 27:538-41 Ap 9 '25
Anthracite trade tests out many plans to popularize buckwheat coal. S. A. Hale. il Coal Age 27:712-14 My 14 '25
Buckwheat coal demands real recognition in anthracite merchandising problems. S. A. Hale. il Coal Age 27:638-41 Ap 30 '25
Coal mining and the business cycle. W: L. Crum and H. B. Vanderblue. charts Harvard Business R 4:71-7 O '25
Coal trade fails to realize importance of oil competition. P. Wooton. Coal Age 26:658 N 6 '24
Coal under the Dawes scheme. Economist 99: 805-6 N 22 '24
Competitive pressure grows in hard-coal markets. S. A. Hale. il Coal Age 27:495-8 Ap 2 '25
How to overcome consumer sales resistance to purchase of pea coal for domestic fuel. S. A. Hale. Coal Age 27:613-15 Ap 23 '25
Die kohlenwirtschaft des Deutschen Reiches und der welt im jahre 1924/25. Stahl & Eisen 45:1333-7 Jl 30 '25
Many opportunities for broadening demand for pea size anthracite still uncapitalized. S. A. Hale. Coal Age 27:567-9 Ap 16 '25
Service idea should dominate campaign to sell buckwheat coal as domestic fuel. S. A. Hale. il Coal Age 27:757-9 My 21 '25
Ship no unsold coal. W. D. Ord. Coal Age 28:6-7 Jl 2 '25
Should exempt coal from operation of sec. 28 of Merchant marine act. S. Daggett. Coal Age 27:19 Ja 1 '25
Soft-coal industry handicapped by poor salesmanship. H. L. Gandy. il Coal Age 27:434 Mr 19 '25
Summer storage by railroads would level coal production. Coal Age 25:847-8 Je 5 '24; Excerpt. Power 59:1051 Je 24 '24

See also Coal—Prices; Coal exchanges; Coal inspection; Coal storage; Coal supply; *also* National coal association

Advertising

Advertising can sell coal during the dog days. H. Blauvelt. Ptr Ink 133:57-8+ O 8 '25
Advertising replaces policy of viewing with alarm. Ptr Ink 126:64+ F 7 '24
Another hard-boiled industry takes its case to the consumer. D. Gridley. Ptr Ink 126: 41-2 Mr 6 '24
Anthracite coal—a sick industry that needs sound merchandising. H. B. Blauvelt. Ptr Ink 126:85-6+ F 14 '24
Anthracite has standardized—will advertising follow? H. Blauvelt. Ptr Ink 131:89-90+ My 14 '25
Anthracite operators advertise free course in heat engineering. J: A. Lutz. Ptr Ink 128: 106+ S 18 '24
Anthracite operators advertise to the miners. H. Blauvelt. Ptr Ink 133:122+ O 1 '25
Good coal advertising has strong background. il Coal Age 27:719-21 My 14 '25
Government facts aid in combating prejudice. J. A. Lutz. Ptr Ink 126:101-2 Ja 3 '24
Miners and operators join to advertise coal. Ptr Ink 129:92 D 18 '24
Union miners advertise to create jobs. Ptr Ink 129:33-4+ D 11 '24
We found the way to bigger sales through a promotion department. F. A. Brazelton. Sales Management 8:535-6 Ap 4 '25
When you coal operators advertise, don't forget women. H. Blauvelt. Ptr Ink 128:101-2+ S 11 '24
Wherein an old industry quits taking things for granted. C. M. Harrison. Ptr Ink 133: 194+ N 5 '25

Bibliography

Coal prices: a selected bibliography. T: P. Ayer. Ann Am Acad 111:344-62 Ja '24

COAL trade—*Continued*

Mail order selling

Mail order competition jars coal retailers. Coal Age 27:952 Je 25 '25

Regulation

Coal price regulation and the constitution. W: D. Lewis. Ann Am Acad 111:292-304 Ja '24

Coal retailers, in convention, line up against Oddie bill. Coal Age 27:760-1 My 21 '25

Code of industrial law. W: S. Kenyon. Ann Am Acad 111:305-13 Ja '24

Deadlock on Jacksonville wage pact justifies Economics bureau provision of Oddie coal bill. J: E. Orchard. Coal Age 27:511 Ap 2 '25

Government ownership of coal mines. J. E. Johnsen. 392p H. W. Wilson co. '23

Pinchot drafts new plan and compact to regulate anthracite industry. Coal Age 24:854, 891 D 6-13 '23

Pinchot's draft of coal act is being considered by governors. Power 59:73 Ja 8 '24

Soft coal faces federal rule under the Oddie bill. P. Wooton. Annalist 25:743 Je 1 '25

Two slants at the coal problem. G: H. Cushing. Min Cong J 10:261-2 Je '24

Uncle Sam can aid public by leaving coal alone. H. L. Gandy. Coal Age 28:600-2 O 29 '25

See also Coal—Transportation; United States—Coal commission

Statistics

Coal. Survey of Cur Business 30:82-3 F '24 [continued quarterly]

Some statistics of the world's coal trade. Economist 101:sup15+ Ag 22 '25

Threatening coal strikes. S. Bell. Comm & Fin 14:1445-6 Jl 29 '25

Tonnage and value of anthracite shipped during 1923, by regions and sizes. Coal Age 26:376 S 11 '24

Translating coal statistics into cash. G: H. Cushing. Min Cong J 11:125-6 Mr '25

Trend of business movements. Published in monthly numbers of Survey of current business

World production of coal in 1924. Power 61: 476 Mr 24 '25; Comm M 7:15 Ag '25

Brazil

Coal market of Brazil. M. A. Cremer. U S Bur For & Dom Com Trade Information Bul 275:1-21 '24

Canada

Coal output, exports, imports and consumption by Canada in 1923. map Coal Age 25: 780 My 22 '24

Output of coal in Canada. Can Eng 47:446 O 21 '24

Strikes curtail Canada's output in 1924. S. J. Cook. il Coal Age 27:180-2 Ja 29 '25

Europe

Economic and financial progress in Europe, 1923-24. J. S. Davis. R Econ Statis 6:212-15 Jl '24

France

Coal and coke situation in France. Econ W n s 29:628 My 2 '25

Coke situation is pivotal point of French fuel problem. V: Truant. Coal Age 25:105-6 Ja 17 '24

French coal industry climbed back to favorable position in 1924. V: Truant. il Coal Age 27:119-20 Ja 15 '25

French coal situation during the year 1923. J: F. Simons. Econ W n s 27:904-6 Je 28 '24

Germany

German coal industry in 1924. Economist 100:246-7 F 7 '25

German coal industry in the first half of 1924. Econ W n s 28:407 S 20 '24

German coal production in 1924. Econ W n s 29:772 My 30 '25

German trade associations: the coal kartells. A. H. Stockder. 254p Holt '24

Strike in German coal mines; trade conditions. Coal Age 25:953 Je 26 '24

Zur wirtschaftlichen lage der kohlen- und eisenindustrie. Stahl & Eisen 44:403-5 Ap 10 '24

Great Britain

British coal crisis. Nat City Bank p 150-7 S '25

British coal exchanges a popular form of co-operative effort. P. Wooton. Coal Age 25: 15-16 Ja 3 '24

British coal industry. Comm & Fin 13:2044-5 O 22 '24

British co-operative coal trade making giant strides. W: Notz. Coal Age 25:282-3 F 21 '24

British House of commons votes £10,000,000 as subvention to coal industry. Comm & Fin Chr 121:653 Ag 8 '25

British trade in depths of depression. C. H. S. Tupholme. Coal Age 27:118 Ja 15 '25

British trade unsettled at year's end. C. H. S. Tupholme. Coal Age 25:104-5 Ja 17 '24

Capitalist combination in the coal industry. D. J. Williams. 176p Labour publishing co., ltd., London '24

Causes of dispute in the coal mining industry. Engineering 120:140-1 Jl 31 '25

Coal and coke exports in 1924. Gas J (Lond) 169:193-4 Ja 28 '25

Coal and power. D: Lloyd George. 285p Hodder and Stoughton, ltd., London '24

Coal-news gatherer finds a near-paradise in Cardiff exchange. P. Wooton. Coal Age 24: 779 N 22 '23

Coal production, wages and costs. Economist 99:1004 D 20 '24

Coal trade crisis. Economist 101:49-50 Jl 11 '25

Coal trade in 1924. Economist 100:129-30 Ja 24 '25

Coal trade of Great Britain in 1924. Econ W n s 29:151-3 Ja 31 '25

Economic difficulties besetting the British coal industry. Econ W n s 30:297-9 Ag 29 '25

Future of the coal industry. W. Thorneycroft. Economist 99:480-1 S 27 '24

Many-sided British coal crisis. P. W. Wilson. Annalist 26:278+ S 4 '25

Profits and losses in the coal trade. Economist 100:1282-3 Je 27 '25

Sees revolutionary era just ahead of coal industry. P. Wooton. Coal Age 25:47 Ja 10 '24

Situation in the coal export trade. Economist 98:1043-4 My 24 '24

Why the coal industry of Great Britain functions smoothly. P. Wooton. Coal Age 24: 815-16 N 29 '23

Russia

Heavier coal output at Russian mines hampered by scarcity of markets. Coal Age 28: 193 Ag 6 '25

Russian coal industry. Engineer 136:529-30 N 16 '23

United States

Accountant's review of coal. G: H. Cushing. Min Cong J 10:429-30 S '24

American academy of political and social science hold conference at Philadelphia on the price of coal. Power 58:867-8 N 27 '23; Coal Age 24:789-90 N 22 '23

Anthracite industry in 1923. Bradstreet's 52: 21 Ja 5 '24

Anthracite industry in 1924. Min Cong J 11: 67-8 F '25

Anthracite, other fuel, and the law. H: Wharton. Am Ind 24:27-30 F '24

Anthracite question. H. S. Raushenbush. 165p H. W. Wilson co. '24

Banker advises bigger, better equipped units for mining the nation's coal. J. E. Allen. Coal Age 27:869-70 Je 11 '25

Banker tells coal industry how to aid itself. R. K. Cassatt. il Coal Age 27:937-40 Je 25 '25

COAL trade—United States—*Continued*

Bituminous coal and American industry. H. L. Gandy. Min Cong J 10:427-8 S '24

Bituminous coal industry facing brighter future. H. L. Gandy. Min Cong J 11:282-3+ Je '25

Bituminous coal industry in 1924. il Min Cong J 11:69-70 F '25

Bituminous coal industry—its relations to the public and its own needs. F. R. Wadleigh. Min Cong J 10:198-200 My '24

Buyer's market for soft coal is at hand. H. A. Haring. Annalist 23:479-80 Ap 21 '24

Case for anthracite coal. S: D. Warriner. Min Cong J 10:33-5 Ja '24

Changed and changing anthracite conditions. E. W. Parker. Min Cong J 11:280-1 Je '25

Changes in buying and selling of coal suggested. Iron Tr R 76:1499 Je 4 '25

Coal and coke production show gains; prices are firmer. L: H. Haney. Iron Age 116: 620+ S 3 '25

Coal commission says profits are increasing and people pay for speculation in coal lands. Power 58:789-90 N 13 '23

Coal commission's report on anthracite profits recommends differential taxation, publicity of accounts and use of hard-coal substitutes. Coal Age 24:747-51 N 15 '23

Coal: field for the next great financier. G: H. Cushing. Comm & Fin 14:1035 My 27 '25

Coal in 1919, 1920 and 1921. F. G. Tryon and S. A. Hale. U S Geol S Min Res of U S 1921, pt 2:445-662 '23

Coal in 1922. F. G. Tryon and S. A. Hale. U S Geol S Min Res of U S 1922, pt 2: 439-669, pl 3-5 '24

Coal marketing. C. E. Lesher. Eng & Min J 119:13-17 Ja 3 '25

Coal production. Bradstreet's 52:413, 558, 749-50; 53:417 Je 28, Ag 30, N 22 '24, Je 27 '25

Coal production. Published in weekly numbers of Commercial and financial chronicle

Coal production, 1924 and 1925. Bradstreet's 53:689-90 O 24 '25

Coal production in the United States during 1922. Monthly Labor R 19:1283-6 D '24

Coal situation—what can we, the consumers, do about it? T: R. Hay. Ind Management 67:65-70 F '24

Coal trade. Moody's Inv Serv 16:193-6; 17: 49-52 My 8 '24, F 5 '25

Coal's outlook for 1924. H. A. Haring. Annalist 23:35+ Ja 7 '24

Coal's worst year. H. S. Wright. 202p R. G. Badger, Boston '24

Consolidations of bituminous mining operations. J: C. Brydon. Min Cong J 10:202-4 My '24

Costs and margins in producing and distributing coal. W. G. Durand and others. Ann Am Acad 111:125-80 Ja '24

Current coal production returns. Bradstreet's 53:482 Jl 25 '25

Dock operators have better of argument on price-fixing charge. P. Wooton. Coal Age 27:157 Ja 22 '25

Factors which influence coal prices. G: H. Cushing. Min Cong J 11:49+ F '25

Fight against the public welfare is involved in the fight against West Virginia coal. W. M. Wiley. Manuf Rec 85:103-4 Ap 3 '24

Figures tell story of coal industry's struggle to adjust itself following the war. D: L. Wing. Coal Age 27:635-7 Ap 30 '25

Governor Pinchot's conference on anthracite coal prices. Comm & Fin Chr 117:2398-9 D 1 '23

In the year just past production only 13 per cent less than it was in 1923. Coal Age 27: 65-6 Ja 15 '25

Industrial coal, purchase, delivery and storage. 419p [bibliog. p. 387-405] Ronald press '24; Review. Ann Am Acad 119:129-32 My '25

Marked increase in tidewater coal business does not reflect natural growth. J. S. Burrows. Coal Age 25:79-81 Ja 17 '24

Market situation in coal. E. McAuliffe. Elec W 82:1345-6 D 29 '23

Markets and production in 1923 and forecasts. diags Coal Age 25:87-103 Ja 17 '24

Markets and production in 1924 and forecasts. Coal Age 27:103-22 Ja 15 '25

Mining industries especially are in need of trade associations. G. H. Dorr. Coal Age 26:14-16 Jl 3 '24

National coal association seeks way to serve industry with statistical data. R. D. Hall. Coal Age 27:931-6 Je 25 '25

National coal situation. J. G. Bradley. Am Ind 24:35-8 Je '24

No simple solution of coal's problem. G: H. Cushing. Min Cong J 11:273-4 Je '25

Outlaw strikes in anthracite industry in 1924; use of substitutes for anthracite grows. E: W: Parker. il Coal Age 27:95-7 Ja 15 '25

People's right to coal paramount to quarrels of operators and miners. G. O. Smith. Coal Age 24:787-8 N 22 '23

Place of the United States in world coal production. Econ W n s 30:299 Ag 29 '25

Price of coal, anthracite and bituminous. C. L. King. charts diags Ann Am Acad 111:1-387 Ja '24

Production and labour in United States coal mines. E: T. Devine. Int Labour R 10:759-78, 935-61 N-D '24

Production of coal in the United States in December and during 1923. Econ W n s 27: 158-9 F 2 '24

Real issue in the coal industry. J. F. Callbreath. Min Cong J 11:271-2+ Je '25

Reviews the Coal commission's general recommendations. E: E. Hunt. Eng N 91:984 D 13 '23

Seasonal storage of coal; summary report of the storage of coal committee of the Federated American engineering societies. Mech Eng 46:498-500 Ag '24; Same. Gas Age 54: 247-8+ Ag 23 '24; Same. Management & Adm 8:197-9 Ag '24; Excerpts. Coal Age 26: 52 Jl 10 '24; Iron Age 114:146 Jl 17 '24; Power 60:75 Jl 8 '24; Ry R 75:47-8 Jl 12 '24

Shortsighted policy is seen in snatching Britain's European coal trade. P. Wooton. Coal Age 26:479 O 2 '24

Signs of the times in coal. G: H. Cushing. Min Cong J 11:352+ Jl '25

Situation of the bituminous coal industry in the United States. Econ W n s 29:621-3 My 2 '25

Soft coal industry modernizing itself. H. A. Haring. Annalist 25:614+ My 4 '25

Soft coal trade. Moody's Inv Serv 17:261-2 Ag 6 '25

Steam coal plentiful; anthracite strike causing some concern about coke. L: H. Haney. Iron Age 116:1192+ O 29 '25

Suggest that coal and oil industries unite to eliminate over-production. Power 60:785 N 11 '24

Tidewater coal business in 1924 was lowest since 1919 except for strike year. J. S. Burrows. il Coal Age 27:89-90 Ja 15 '25

To rout coal's rivals, the industry must do its part. A. C. Dodson. Coal Age 27:795-6 My 28 '25

Trouble ahead for both hard and soft coal. H. A. Haring. Annalist 25:18-19 Ja 5 '25

Union fields have reached the turning point. C. E. Lesher. Coal Age 28:8-11 Jl 2 '25

What the Coal commission found. E: E. Hunt, F. G. Tryon and J. H. Willits, eds. 416p Williams & Wilkins co., Baltimore '25

Will the strike stop coal deflation. G: H. Cushing. Min Cong J 11:467+ O '25

See also Coal—Prices; Coal supply—United States: *also* American wholesale coal association; Consolidation coal company; National retail coal merchant's association; Reading company; Temple anthracite coal company; United States—Coal commission

Wales

Finances of South Wales coal trade. Economist 100:291-2 F 14 '25

South Wales colliery results. Economist 100: 849-50 My 2 '25

COAL trade—Wales—*Continued*
Welsh coal trade in 1923. E. C. Soule. U S Bur For & Dom Com Trade Information Bul 261:1-30 '24

West Virginia

For smokeless fields of West Virginia 1924 was banner production year. Coal Age 27: 514 Ap 2 '25
West Virginia produces 18.4 per cent of country's soft coal. H. L. Gandy. Coal Age 26:481 O 2 '24
West Virginia smokeless producers plan campaign to capture New England. S. A. Hale. Coal Age 28:669 N 12 '25

COAL washers
English washery cleans coal before sizing. C. H. S. Tupholme. il diags Coal Age 26: 177-81 Ag 7 '24
How washer at British colliery readily treats mixed coals of widely varying character. C: H. S. Tupholme. il diags plan Coal Age 25: 455-8 Mr 27 '24

COAL washing
By continuous flow of water coal is freed of slate. diags Coal Age 26:188-9 Ag 7 '24
Le classement et le lavage des charbons. C: Berthelot. diags Soc Ing Civils Bul 76:973-1012 Jl '23; Abstract. Chimie & Ind 11:900-4 My '24
Cleaning tests of central Illinois coal. T: Fraser and H. F. Yancey. U S Bur Mines Tech. Pa 361:1-23 '25
Coal washing plant exhibited by the Butterley ironworks. diags Engineer 138:455-7 O 24 '24
Coal washing practice in Alabama. H. S. Geismer. il Coal Age 26:501-4 O 9 '24
Coal washing problems of the Pacific Northwest. E. R. McMillan and B. M: Bird. Washington (State) U Eng Exp Sta Bul 28:1-234 '24
Colliery at the British Empire exhibition. diags. Engineering 118:411-14 S 19 '24
Concentrating tables—their operation and what results they obtain in cleaning anthracite. J: Griffin. il Coal Age 26:217-19 Ag 14 '24
Edgewater mine produces large output of washed coal under adverse conditions. R. Hamilton. il Coal Age 28:246-7 Ag 20 '25
Europe is developing some new methods for washing coal. C. H. S. Tupholme. diag Coal Age 26:649-50 N 6 '24
How washer at British colliery readily treats mixed coals of widely varying character. C. H. S. Tupholme. il diags plan Coal Age 25:455-8 Mr 27 '24
Le lavage des charbons par flottage; le traitement des poussiers et des schlamms à haute teneur en cendres. C: Berthelot. diags Génie Civil 84:521-6 My 31 '24
Le lavage des charbons par rhéolaveurs. diags Génie Civil 86:362-3 Ap 11 '25
Le lavage des charbons par rhéolaveurs. Charvet. Génie Civil 85:139-40 Ag 9 '24
New source of high-grade coking coal; abstracts. H. M. Chance. il Iron Age 112:1713-14 D 27 '23; Iron Tr R 74:236 Ja 17 '24
Procédé d'enrichissement des schlamms et poussières de charbon. diags Chimie & Ind 11:270-1 F '24
Should use enough coal on washing table for perfect stratification. Coal Age 26:402 S 18 '24
Studies of froth flotation and Rheolaveur coal cleaning systems in Great Britain. C. H. S. Tupholme. Coal Age 27:682-4 My 7 '25
Washer that removes refuse in coal as it travels. J. Kersten. diags Coal Age 24:847-50 D 6 '23
Washing of northwestern coals. Blast F & Steel Pl 12:447 O '24

See also Coal cleaning

COAL waste
Determining by volumetric tests the quantity of unmarketable material in a coal seam. H. Owens. diags Coal Age 25:465-6 Mr 27 '24
Much anthracite lost in mining and preparation. H. H. Otto. il diags Coal Age 27:285-92 F 19 '25
Pulverized anthracite slush burned at Lykens. il diags Power 60:2-7 Jl 1 '24; Same, without table. Coal Age 26:253-7 Ag 21 '24

COALBROOKDALE, England
Sketch of the industrial history of the Coalbrookdale district. R. Jenkins. Engineer 137:694 Je 20 '24

COALING
Coaling locomotives by crane and grab. diags Cassier's Ind Management 12:150 F '25

COALING stations
Coaling plant with hoist machinery at top. D: E. White. il Ry R 76:544 Mr 14 '25
Coaling station at Dubuque, Iowa, has car loading facilities. il diag Ry Age 78:1097-8 My 2 '25
Combined cinder and coal hoist, Millville, N. J. il diags Ry Age 76:297-8 Ja 26 '24
Combined coaling and cinder plant, Pennsylvania lines. il diags plan Ry R 73:912-13 D 22 '23; Same. Eng & Contr (Ry) 61:391-2 F 20 '24
Creosoted timber coaling stations. H. McDonald. Eng & Contr (Ry) 60:1306 D 19 '23
Locomotive coaling installation at Nine Elms. G: F: Zimmer. il diags Engineer 138:442-4 O 17 '24
Locomotive coaling plant; latest German practice. H. Koblenz. diags Cassier's Ind Management 12:474-6+ O '25
Locomotive coaling plant recently installed by the Italian State railway. G: F: Zimmer. il diags Cassier's Ind Management 11:133-5 Mr 6 '24
Mechanical handling of locomotive coal in England. E. W. Selby. bibliog il diags Cassier's Ind Management 12:86-91 Ja '25
New small capacity coal chute. diag Ry R 75:483-4 S 27 '24
Norfolk & Western coaling station is of unusual design. il diag Ry Age 78:995-6 Ap 18 '25
Report of committee on fuel stations. Ry Age 76:1365-6 Je 7 '24; Same. Ry Mech Eng 98:414 Jl '24
Report of committee on fuel stations. Ry Age 78:1393-5 Je 6 '25
Small mechanical coaling plant for railway use. diag Eng N 94:236 F 5 '25

See also Coal piers

COALITE
Coalite developments at Barnsley. Soc Chem Ind J (Chem & Ind) 42:1100-1 N 16 '23; Same. Chem & Met Eng 29:1057 D 10 '23

COAST guard. See United States—Coast guard

COATS
Coats. F. J. Ringo. 127p Shaw '25

COBALT, Ontario
Cobalt: bonanza silver district of Ontario. A. A. Cole. il map Eng & Min J 118:325-30 Ag 30 '24

COBALT
Anhysteretic magnetostrictive effects in iron, nickel and cobalt. P. McCorkle. Phys R 25:541-9 Ap '25
Cobalt. G. C. Bateman. Eng & Min J 119: 91 Ja 17 '25
Le cobalt et ses récentes applications. L. Guillet. Soc Ing Civils Bul 77:697-711 O '24; Abstract. Génie Civil 85:459 N 15 '24
Cobalt; its production and some of its uses. T. H. Gant. Soc Chem Ind J (Chem & Ind) 44:157-61, 191-7 F 13-20 '25
Cobalt ores. E: Halse. 54p J. Murray, London '24
Comparison of the atomic weights of terrestrial and meteoric cobalt; the analysis of cobaltous chloride. G. P. Baxter and M. J. Dorcas. Am Chem Soc J 46:357-66 F '24
Improvement in silver-cobalt reduction industry. F. A. Bapty. Can Chem & Met 9:113-14 My '25
Industrial utility of cobalt. F. H. Mason. il Chem & Met Eng 29:1135-7 D 24 '23
Marketing of cobalt ores and metal. G. C. Bateman. Eng & Min J 116:1076-7 D 22 '23

COBALT—*Continued*
New cobalt extraction process; industrial application of cobaltammines. Chem Age (Lond) 10:384-5 Ap 12 '24
Production of cobalt in Canada. Can Eng 49:310 S 15 '25
Separation of cobalt from nickeliferous ores by the purpureo-cobalt chloride process. G. T. Morgan and J. D. M. Smith. Soc Chem Ind J 43:131-3 My 2 '24

Analysis

New qualitative tests for copper, iron and cobalt. M. L. Nichols and S. R. Cooper. Am Chem Soc J 47:1268-70 My '25

COBALT acetates
Electrolytic production of cobalt and nickel triacetates from the diacetates; the electrolytic production of nickel trichloride. C. Schall and H. Markgraf. diag Am Electrochem Soc Trans v 45 (preprint 8):119-28 Ap '24

COBALT alloys
See Stellite

COBALT ammines
New cobalt extraction process; industrial application of cobaltammines. Chem Age (Lond) 10:384-5 Ap 12 '24

COBALT chlorides
Comparison of the atomic weights of terrestrial and meteoric cobalt: the analysis of cobaltous chloride. G. P. Baxter and M. J. Dorcas. Am Chem Soc J 46:357-66 F '24
Defect in permanent color standards due to variations in cobalt chloride. M. C. Whipple. Eng & Contr (W W) 62:80-4 Jl 9 '24

COBALT compounds
Crystal structure and absorption spectra; the cobaltous compounds. R. Hill and O. R. Howell. diags Philos Mag 6th ser 48:833-47, pl 25 N '24
Magnetic rotary dispersion of certain paramagnetic solutions. R. W. Roberts. Philos Mag 6th ser 49:397-422 F '25
Reaction between potassium amide and certain salts of cobalt and iron in liquid ammonia. F. W. Bergstrom. Am Chem Soc J 46: 2631-6 D '24
Researches on residual affinity and coordination; chromic and cobaltic lakes of mordant azo-dyes. G. T. Morgan and J. D. Main Smith. Chem Soc J 125:1731-9 S '24

COBALT hydroxide
Decomposition of hydrogen peroxide by cobaltic hydroxide. F. G. Tryhorn and G. Jessop. Chem Soc J 127:1320-30 Je '25

COBALT mines. See Silver mines and mining—Ontario

COBALT oxide
Catalyzers for the oxidation of ammonia. W. W. Scott. Ind & Eng Chem 16:74-82 Ja '24

COBALT plating
Acidity of cobalt and nickel plating baths—use of the oxygen electrode. G. H. Montillon and N. S. Cassel. Am Electrochem Soc Trans v 45 (preprint 1):1-11 Ap '24; Same. Brass W 20:167-9 My '24

COBALT steel
Cobalt magnet steels. E. A. Watson. Engineering 118:274-6, 302-4 Ag 22-29 '24
Cobalt steels for high-speed cutting tools. L. Guillet. Engineer 140:sup139 S 25 '25
Economic aspect of the utilization of permanent magnets in electrical apparatus. E. A. Watson. diags Inst E E J 63:822-34; Discussion. 834-8 Ag '25

COCKROACHES
Experiences with micro-organisms and insects in textile work. A. K. Johnson. il Am Dyestuff Rep 14:10-11; Discussion. 15-17 Ja 12 '25
How the cockroach disseminates disease. Nation's Health 7:48-9 Ja '25

COCO-COLA
Coco-cola's new method of beating imitators. Ptr Ink 128:10+ S 18 '24
Why coca-cola rebuilt its sales organization. R. W. Woodruff. map Ptr Ink M 9:19-20+ Jl '24

COCO-QUININE
Calling a halt on substitution. Ptr Ink 127:25-6+ Je 19 '24

COCOA
Cocoa and chocolate industries. A. W. Knapp. 147p Pitman '23
From cacao to cocoa and chocolate. il Chem & Met Eng 31:257-9 Ag 18 '24
See also Chocolate; New York cocoa exchange

COCOA butter
Cocoa butter manufacture. Chem Age 32:85-6 F '24

COCONUT oil
Chemical and material markets in 1923. Chem & Met Eng 30:119 Ja 21 '24
Coconut oil consumption shows moderate gain, 1924. Chem & Met Eng 32:143 Ja 19 '25
Coconut oil refining. A. P. Lee. Ind & Eng Chem 16:341-6 Ap '24
Examination of coconut oils, together with a note on the oils from some other members of the Palmæ. J: Allan and C: W. Moore. Soc Chem Ind J 44:61-3 F 13 '25
Fatty acid constituents of some natural fats; the oils from the coconut. E. F. Armstrong, J: Allan and C: W. Moore. Soc Chem Ind J 44:63-8 F 13 '25
Influence of several solvents on the Hanus iodine values of cottonseed and coconut oils. H. J. Bankston, jr., and F. C. Vilbrandt. Ind & Eng Chem 16:707-8 Jl '24
Separation of octoic and decoic acids from cocoanut oil. E. E. Walker. Chem Soc J 123:2837-9 N '23
Trade in Philippine copra and coconut oil. E. D. Gothwaite. il maps U S Bur For & Dom Com Trade Promotion Ser 11:1-120 '25

COD-liver oil
Cod liver oil. J. C. Drummond. Soc Chem Ind J (Chem & Ind) 43:928-32 S 19 '24
Influence of storage and of emulsification on the vitamin A in cod liver oil. J. C. Drummond, S. S. Zilva and K. H. Coward. Soc Chem Ind J 43:236-8 Jl 18 '24
Vitamin potency of cod-liver oils. A. D. Holmes. charts Ind & Eng Chem 16:295-7, 379-80, 964-5, 1181-4; 17:75-8 Mr-Ap, S, N '24, Ja '25

CODEINE
Codeine and its isomerides; abstracts. E. Speyer and W. Krauss. Chem Soc J 124 pt 1:1115-17 N '23; Soc Chem Ind J (Abstracts) 42:1095-6 N 16 '23

COEFFICIENT of restitution. See Restitution, Coefficient of

COEUR d'Alene mining district. See Mines and mineral resources—Idaho

COFFEE
Block Brazilian loan as harmful here—bankers refuse to help hold up Sao Paulo coffee prices to be paid by importers. Comm & Fin Chr 121:526-7, 661 Ag 1-8 '25
Brazil aids coffee producers. W. S. Culbertson. Ann Am Acad 112:60-5 Mr '24
Brazilian coffee in 1923-24. Comm M 5:29-30 Mr '24; Same. Econ W n s 27:333-4 Mr 8 '24
Brazilian coffee restriction. Nat City Bank p 6-7 Je '25
Coffee and sugar facts. 111p Nortz & co., 96 Front st., New York '25
Coffee merchandising. W: H. Ukers. 245p Tea and coffee trade journal co., New York '24
Coffee-preparing machinery. il Engineering 118:540, 541-2 O 17 '24
Coffee retaliates for our corner in wheat. Annalist 24:512 N 17 '24
Increase in price of Brazilian coffee resulting from valorization scheme causes decreased consumption. Comm & Fin Chr 121: 935 Ag 22 '25
Increasing output of coffee roasters. J. E. Bullard. il Gas Age 53:666+ My 10 '24

COFFEE—*Continued*
New York coffee & sugar exchange in reply to government's conspiracy charges, etc. Comm & Fin Chr 117:2388-9 D 1 '23
Report of an investigation of coffee. S: C. Prescott. 84p Joint coffee trade publicity committee, New York '24
Secretary of commerce Hoover urged by National coffee roasters' association to assist trade in remedying high coffee costs. Comm & Fin Chr 119:2945 D 27 '24
Sugar, coffee, and common sense. A. H. Temple. Comm & Fin 14:993 My 20 '25

Advertising
Coffee growers invest $1,028,025.17 in advertising. Ptr Ink 129:147-8 O 30 '24
Diagramming the tastes of consumers. H. Stebbins. Ptr Ink 128:117-18 Jl 3 '24
Guide-post for co-operative advertising campaigns. F. Coste. Ptr Ink 127:158 Je 19 '24

Prices
High price of coffee and its causes. Econ W n s 29:298-9 F 28 '25
Statistical position and the price of coffee. Econ W n s 28:694 N 15 '24

Statistics
Coffee and tea, 1922-1924. Survey of Cur Business 30:146 F '24 [continued quarterly]
Imports of coffee and tea into the United States during 1923. Econ W n s 27:230-1 F 16 '24
Prices of coffee nearing war peak. Comm & Fin Chr 119:1898 O 25 '24
United States imports and consumption of coffee and tea in the fiscal year 1923-1924. Econ W n s 28:447 S 27 '24
United States imports and consumption of coffee and tea in 1924. Econ W n s 29:267 F 21 '25

COFFEE percolators
Manufacture
Babbitt dies for forming percolator spouts. R. Morris. diags Mach 31:432 F '25

COFFEE percolators, Electric. See Electric coffee percolators

COFFERDAMS
Cellular cofferdam at Missouri river plant. E: E. Wall. il diag plan Eng & Contr (G C) 64:623-7 S 16 '25
Cofferdam used in bell holes for jointing pipe in wet trench. S: P. Baird. diag Eng N 94:902 My 28 '25
Cofferdam wrecked by splitting of concrete seal. C. B. McCullough. diags plans Eng N 92:460-1 Mr 13 '24; Discussion. 92:501, 738 Mr 20, Ap 24 '24
Cofferdams built in swift river on rock and boulder bottom. F. T. Healey. il diags Eng N 92:291-2 F 14 '24
Grand River crossing—Spavinaw water-supply conduit. W. R. Holway. il diags Eng N 95:168-71 Jl 30 '25
Intake tunnel through New Orleans levee in sheetpile cofferdam. R. H. Chambers. il diags plan Eng N 92:560-2 Ap 3 '24

See also Bridges—Foundations and piers

COFFIN foundation
Brief that won the 1924 Charles A. Coffin prize. Elec Ry J 64:673-82 O 18 '24; Same. Aera 13:609-49 N '24
Charles A. Coffin foundation award to the Consumers power company of Jackson, Mich. il Gen Elec R 28:536 Jl '25
Charles A. Coffin foundation award to the Northern Texas traction company. Gen Elec R 27:728 N '24
Charles A. Coffin foundation award to the Public service company of northern Illinois. Gen Elec R 27:485-6 Jl '24
Charles A. Coffin foundation awards. R. D. Owen. Gen Elec R 27:278-81 Ap '24
Charles A. Coffin foundation awards to General Electric employees for 1924. Gen Elec R 28:277-9 Ap '25
Charles A. Coffin foundation fellowships awarded in 1925. Gen Elec R 28:601 Ag '25
Coffin award contestants tell of economies. il Elec Ry J 66:733-42 O 24 '25
Coffin award for 1925 goes to Pittsburgh. Elec Ry J 66:598-9 O 10 '25; Ry R 77:573 O 10 '25
Northern Texas traction company wins Coffin prize. Elec Ry J 64:580-2 O 11 '24; Same. Aera 13:603-8 N '24
Pittsburgh brief that won the Coffin medal. Aera 16:643-717 N '25; Same cond. Elec Ry J 66:666-84 O 17 '25
Pittsburgh papers play up prize. il Elec Ry J 66:840 N 7 '25
What employes do for industry. C: H. Huntley. il Am Ind 24:27-30 My '24

COFFINS
Manufacture
Large uses of steel in small ways. il Iron Tr R 75:1441-2 N 27 '24
Steel caskets are custom made. H. R. Simonds. il Iron Tr R 76:449-51+ F 12 '25

COHOES, New York
Rapid transit
Trackless trolleys give improved service to Cohoes, N.Y. il diags map plan Elec Ry J 64:985-8 D 13 '24

COILS
Alternating current resistance of single layer coils. S. Butterworth. Phys R 23:752-5 Je '24
Coils and magnet wire. C: R. Underhill. 494p McGraw-Hill '25
Construction and advantages of high-grade armature coils. J: S. Dean. il Elec J 22: 361+ Jl '25
Construction and repair of field coils. J: S. Dean. il Elec J 22:309+ Je '25
Das elektromagnetische verhalten der einlagigen zylinderspule; abstract. Steidinger. Elektrotech Zeit 45:880-1 Ag 14 '24
Hints on coil storage. A. S. Warner. Elec Ry J 65:106+ Ja 17 '25
How to determine the number of turns in a coil without opening it. P. G. Bernholz. diag Ind Eng 83:159 Mr '25
Impregnating railway motor field coils. Elec J 22:95+ F '25
Improved field coil insulation for large salient-pole machines. R. M. Casper. il Elec J 22: 24-5 Ja '25
Keeping coils in stock. A. G. Ahrens and M. E. Chapman. Elec J 20:439-40 D '23
Precautions in replacing field coils. Elec Ry J 65:344-5 F 28 '25
Repeated thermal expansions and contractions; their effect on long armature coil insulations. T. S. Taylor. il diags Am Inst E E J 43:1047-50 N '24
Storing spare armature coils. N. L. Rea. Power 62:645 O 27 '25
Winding and connecting small single-phase motors. C. A. M. Weber. il Elec J 21:377-82 Ag '24

See also Armatures; Choke coils; Inductance coils; Reactors

Manufacture
Costing of winding and insulating coils. F. C. Lawrence. Elec R (Lond) 95:242-4, 278-80, 318-19, 375-6, 409-10, 445-6 Ag 15-S 19 '24; Discussion. F: W. Pope. 95:487 S 26 '24

COINAGE
Metallurgical processes in minting. T: Rose. Chem Age (Lond) 11:603 D 13 '24

See also Mints

COINS
Golden job for our mints; double eagles. Am Bankers Assn J 17:544 Mr '25
Hard money. Eng & Min J 118:603 O 18 '24
How "In God we trust" was heralded on our coins. L: Alexander. Am Bankers Assn J 17:311-12 N '24
New coins of Guatemala. F. S. Latour. il Am Bankers Assn J 18:164 S '25
Whims fix prices of rare coins. B. Davenport. il Am Bankers Assn J 17:617-18 Ap '25

COINS—*Continued*

Manufacture

How coin blanks are made. Brass W 20:183-4 My '24

COINS, Commemorative

Uncle Sam adopts a viceroy; Huguenot half dollar. R. Hobson. Am Bankers Assn J 16: 553-4 Mr '24

COKE

Absorption of moisture by coal and other fuels. B. Moore. Soc Chem Ind J 44:200-5 My 1 '25

Advantages of byproduct coke for domestic heating. A. R. Powell. Coal Age 25:39-40 Ja 10 '24

American gas and coke industry. F. S. Townend. Gas J (Lond) 166:233-5 Ap 23 '24

Beitrag zur frage über den einfluss der überhitzung auf die reaktionsfähigkeit von koks. C. Holthaus. Stahl & Eisen 45:1131-3 Jl 9 '25

By-product coke cell structure. O. O. Malleis. il Ind & Eng Chem 16:901-4 S '24

By-product coke; one answer to Chicago's heating problem. il Gas Age 52:807 D 29 '23

Catechism of central station gas engineering in the United States. Am Gas J 120:393-6 Ap 26 '24

Coke and its uses. E. W. L. Nicol. 144p Van Nostrand '23

Coke as fuel for steam raising. E. W. L. Nicol. Gas J (Lond) 167:255-6, 393-4 Jl 9, 23 '24

Coke competition; awards and report of the committee. Gas J (Lond) 172:27-9 O 7 '25

Coke production and consumption. K. Bunte. Gas J (Lond) 169:136 Ja 21 '25

Coke to replace anthracite in Canada. Can Eng 48:449 Ap 28 '25

Combustibilité du coke pour haut fourneau; abstract. Shermann and Kinney. Chimie & Ind 13:756-9 My '25

Combustibility of coke and rate of combustion. T. L. Joseph. U S Bur Mines Rep of Invest 2604:1-5 My '24; Same cond. Blast F & Steel Pl 12:342 Jl '24

Combustion of coke at the tuyere level of the blast furnace. S. P. Kinney. il diags Blast F & Steel Pl 13:243-7 Je '25

Combustion of coke in one stage. G. Weyman. Soc Chem Ind J 44:47-50, 51-60 [bibliog. p. 60] Ja 30-F 6 '25; Abstract. Gas J (Lond) 168:570 N 26 '24

Cultivation of domestic and other coke markets. E. W. Smith and F. S. Townend. Gas J (Lond) 170:365 My 6 '25

Domestic coke fire. C. V. Boys. Gas J (Lond) 168:523 N 19 '24

Driving home the merits of coke at the Wembley exposition. A. C. Blackall. Gas Age 56:491 O 3 '25

L'emploi rationnel des combustibles et le coke. P. Mougin. Chimie & Ind 13:321-4 F '25

Firing question. V. A. Miller. diags Am Gas Assn Technical sec v 5:1118-20; Discussion. 1121-5 '23

Gas coke in relation to industrial and domestic smoke prevention and fuel economy. E. W. L. Nicol. Gas J (Lond) 168:432-4 N 12 '24

How structure and surface affect combustibility of coke. A. Thau. il Chem & Met Eng 30:347-50 Mr 3 '24

How to heat your home. S: S. Wyer. Heat & Ven 22:92 F '25

Koks als erzeugnis der entgasung und als betriebstoff der vergasung. H. Koppers. diags Zeit Ver Deutsch Ing 69:531-7, pl 2 Ap 25 '25

Die nebenerzeugnisse der tieftemperaturbehandlung von braunkohlen. C. Bömcke. Zeit Ver Deutsch Ing 69:567-72 Ap 25 '25

Physical properties and combustibility of coke in relation to its production and use. A. C. Fieldner. diags Am Inst Chem Eng Trans v 15 pt 2:11-29 '23; Same. Chem & Met Eng 29:1052-7 D 10 '23; Discussion. Am Inst Chem Eng Trans v 15 pt 2:29-31 '23

Production and use of coke. C. Schwalbe. diags Am Gas J 122:439-40+ My 23 '25

Production of coke for domestic purposes. E. W. Smith. Gas J (Lond) 172:99-100 O 14 '25

Properties of metallurgical coke. G. St J. Perrott and A. C. Fieldner. diags Am Soc T M Pro 23 pt 2:475-93; Discussion. 494-500 '23

Reactivity of coke in relation to blast-furnace operation. G. St J. Perrott and R. A. Sherman. Eng Soc W Pa 39:351-68; Bibliography. 369; Discussion. 370-5 Ja '24

Die reaktionsfähigkeit (verbrennlichkeit) von koks. H. Bähr. diags Stahl & Eisen 44:1-9, 39-42 Ja 3-10 '24; Discussion. 44:42-8, 691-7 Ja 10, Je 12 '24

Report of the A.G.A. coke committee. Am Gas Assn Technical sec v 5:1108-18 '23

Solid smokeless fuels, their properties and uses. E. C. Evans. Soc Chem Ind J 44:383-91 Jl 31 '25

Some observations on the transition of coal to coke. E. Sinkinson. diags Ind & Eng Chem 17:27-31 Ja '25

Some valuable data regarding an important property of coke. K. Bunte and W. Fitz. diag Am Gas J 121:703-4+ Ag 2 '24; Abstract. Gas J (Lond) 167:513-14 Ag 6 '24

Struggle of sandless pig and byproduct coke for a place in the foundry. W. R. C. Alley. Brass W 21:273-4 Ag '25

Studien über die entgasung und die reaktionsfähigkeit verkokter brennstoffe. H. Broche. diags Stahl & Eisen 45:892-5 Je 4 '25

Study of coke macrostructure. H. J. Rose. il Ind & Eng Chem 17:895-901 S '25

Technical progress in the study of coke and its value to the industry. H. J. Ross. Am Gas Assn Technical sec v 6:971-3 '24

Ueber die elektrische leitfähigkeit von holzkohle und koks. R. Durrer. il diags Stahl & Eisen 44:465-8 Ap 24 '24

Use of gas coke for raising steam. E. W. Dickinson. diags Elec R (Lond) 97:87-9 Jl 17 '25

Using the waste heat in coke. T. Sington. Am Gas J 119:633+ D 15 '23

La variation de la consommation de combustible de chauffage avec l'allure de la combustion. M. Grebel. diags Génie Civil 85:41-2 Jl 12 '24

Die verbrennlichkeit und festigkeit von hüttenkoks in grösseren körnungen. F. Häusser. diag Stahl & Eisen 45:878-85 Je 4 '25

Die verhüttung von kleinstückigem koks. A. Wagner. Stahl & Eisen 45:929-35; Discussion. 936-8 Je 11 '25

What constitutes good foundry coke. H. W. Anderson. Foundry 52:717 S 15 '24; Same. Iron Age 114:624 S 11 '24

Where coke fits into the fuel conservation movement. Heat & Ven 22:98 S '25

See also Coal; Coke industry and other headings beginning Coke

Analysis

Influence of the ash constituents in the carbonization and gasification of coal, with special reference to nitrogen and sulphur. C. B. Marson and J. W. Cobb. bibliog Gas J (Lond) 171:39-45; Discussion. 45-6 Jl 1 '25

Methods of laboratory grinding of coke for analysis. W. A. Selvig. U S Bur Mines Rep of Invest 2679:1-5 Mr '25

Bibliography

Short bibliography of coke. H. J. Hailstone. Gas J (Lond) 170:591-2 My 27 '25

Gasification in steam

Gasification of coke in steam, with special reference to rates of gasification and the composition of the gas. S. Pexton and J. W. Cobb. diag Gas J (Lond) 167:161-7; Discussion. 167-9 Jl 2 '24

Prices

Beehive coke. Iron Tr R 74:104; 76:96 Ja 3 '24, Ja 1 '25

COKE—Prices—*Continued*
Connellsville coke prices for twenty-one years, 1903-1923. Iron Age 113:85 Ja 3 '24
Connellsville coke prices for twenty-one years, 1904-1924. Iron Age 115:75 Ja 1 '25
Price of coal and coke. L: H. Haney. Iron Age 116:292+, 620+, 896+ Jl 30, S 3, O 1 '25

Sulfur content

Desulphurizing coke with steam. Chem & Met Eng 30:354 Mr 3 '24
Determination of sulphur in coke; fusion method with sodium peroxide. Foundry 52: 472a Je 15 '24
Sulphur in coke. Gas J (Lond) 168:782-3 D 17 '24

Terminology

Tentative definitions of terms relating to coke. Am Soc T M Pro 24 pt 1:934-6 '24

Testing

Beitrag zur physikalischen untersuchung von koks. P. Bardenheuer and G. Thanheiser. Stahl & Eisen 43:1542-3 D 13 '23
Combustibility of blast furnace coke. R. A. Sherman. Iron Age 115:1043-5 Ap 9 '25
Mass und bestimmung der verbrennlichkeit des kokses. P. Häusser. diag Stahl & Eisen 43:903-7 Jl 12 '23; Discussion. 43:1539, 1565-6 D 13-20 '23
Standard method of shatter test for coke. diags Am Soc T M Standards 1923:102-4

Transportation

Dispatching the company's coke trucks. V. A. Miller. il Am Gas Assn Technical sec v 6:995-9 '24; Same. Gas Age 54:25-6 Jl 5 '24

COKE, Pulverized
Burning pulverized coke braize. H. W. Brooks. Iron Age 116:165-6 Jl 16 '25
Burning pulverized petroleum coke. il diags Power Pl Eng 29:834-6 Ag 15 '25
Ford plants to use pulverized coke. il diags Power Pl Eng 27:1165-72 D 1 '23

COKE breeze
Breeze firing for small horizontal settings. M. Winkler. Gas J (Lond) 171:224 Jl 22 '25
Burning coke breeze. W. H. Wakeman. Power 60:261-2 Ag 12 '24
Burning mixtures of coke breeze and bituminous coal. Power 59:1038 Je 24 '24
Coke breeze as a fuel. Soc Dyers & Col J 41:148 Ap '25
Coke breeze for steam generation. il Gas J (Lond) 170:48-9 Ap 1 '25
Gasification of coke breeze. diag Am Gas J 122:293 Ap 4 '25
Making gas with coke breeze. Am Gas J 123: 26+ Jl 11 '25

COKE handling
Automatic coke hoist. D. C. Cross. il Gas J (Lond) 165:788-9 Mr 26 '24
Coke-handling plant at the Portsmouth gasworks. S. E. Whitehead. il diags Gas J (Lond) 165:780-5; Discussion. 785-7 Mr 26 '24
Conveying and quenching of coke in gas works. L. Rodde. diags Cassier's Ind Management 11:421-2, 448-50 S-O '24
Electric locomotives in by-product coke quenching. H. H. Johnston. il Gas Age 52: 675-8 D 1 '23
Flood patent system of coke quenching and conveying. il Cassier's Ind Management 11: 159-60 Mr 20 '24
Weirton's new by-product plant. C. J. Hunt. il Blast F & Steel Pl 12:193-6 Ap '24; Same. Iron Age 113:577 F 21 '24; Same. Iron Tr R 74:988-9 Ap 10 '24

COKE industry
Coke output recuperates in 1924. R. S. McBride. Chem & Met Eng 32:168 Ja 26 '25
Coke sales from standpoint of the smaller properties. F. E. Caton. Gas Age 54:374+ S 13 '24; Same. Am Gas J 121:860+ S 20 '24
Merchandising coke in the small plant. J. K. Swanson. Am Gas Assn Technical sec v 6: 991-2 '24; Same. Am Gas J 121:1099 O 18 '24
Pitfalls in path of coke industry show need of byproduct association. P. Wooton. Coal Age 28:639 N 5 '25

See also Coke—Prices

Advertising

Advertising. W. G. Rich. Am Gas Assn Technical sec v 6:993-4 '24; Same. Am Gas J 121:1005-6 O 15 '24
Coke bulletins and coke advertisements. Am Gas Assn Technical sec v 6:1000-34; Discussion. 1035-9 '24
Human interest advertising copy that sold coke. A. L. Marler. Gas Age 56:25-6+ Jl 4 '25

Exhibitions

Wembley coke exhibit. il Gas J (Lond) 170: 728-9 Je 10 '25

Statistics

Production of coke. Published in weekly numbers of Commercial and financial chronicle

France

Coke situation is pivotal point of French fuel problem. V: Truant. Coal Age 25:105-6 Ja 17 '24

Germany

French iron ore and German coke. Annalist 25:221 F 9 '25

Great Britain

Coal and coke exports in 1924. Gas J (Lond) 169:193-4 Ja 28 '25

United States

Byproduct and beehive coke produced in the United States, 1924. Coal Age 28:434 S 24 '25
By-product coke and by-products in 1924. F. G. Tryon and H. L. Bennit. Chemicals 24: 6 Jl 6 '25
By-product coke in 1923 scores record. Iron Tr R 74:277 Ja 24 '24; Coal Age 25:218 F 7 '24
Byproduct coke output off 9.6 per cent in 1924. Coal Age 28:190 Ag 6 '25
Coke and by-products in 1922. F. G. Tryon. U S Geol S Min Res of U S 1922, pt 2:671-799, pl 6 '25; Excerpts. Iron Age 114:1689-91 D 25 '24
Coke production for 1924. Iron Age 115:281 Ja 22 '25; Manuf Rec 87:82 Ap 30 '25
Production of coke in 1924. Iron Age 115:1540 My 21 '25
Steam coal plentiful; anthracite strike causing some concern about coke. L: H. Haney. Iron Age 116:1192+ O 29 '25

COKE manufacture
Ash content of coal; its importance from the coke standpoint. K. Bunte. Am Gas J 122: 290+ Ap 4 '25
Coal and coke symposium held by the American institute of mining and metallurgical engineers at its winter meeting. Coal Age 27:364-5 Mr 5 '25
Coal carbonization as applied to power plant practice. V. Z. Caracristi. diags Power 57: 831-6 My 29 '23; Same. Am Gas J 119:65-9, 76-8 Jl 28 '23; Same, with table. Can Eng 46:109-14 Ja 1 '24; Abstract. Gas J (Lond) 64:534 Ag 15 '23
Coke production and consumption. K. Bunte. Gas Age 56:506 O 10 '25; Same. Blast F & Steel Pl 13:462 N '25
Compte rendu de la visite aux mines de Béthune. P. E. Leroux. diags maps Soc Ing Civils Bul 77:660-96, pl 84 O '24
Determination of temperatures of plasticity, maximum pressures, and solidification of coking coals. E. T. Layng and W. S. Hathorne. diags Ind & Eng Chem 17:165-7 F '25
Electric locomotives in by-product coke quenching. H. H. Johnston. il Gas Age 52: 675-8 D 1 '23
German coke manufacturers improve their product. Gas Age 55:447 Mr 28 '25

COKE manufacture—*Continued*
Improving the quality of coke produced in horizontal retorts. J: H. Doerres, J: L. Eigenbrot and R. L. Fletcher. il Am Gas Assn Technical sec v 6:974-90 '24; Excerpts. Am Gas J 121:1041 O 16 '24
Influence of ash constituents of the coking process. R. Lessing. bibliog Soc Chem Ind J 44:345-50 Jl 17 '25; Same. Gas J (Lond) 171:541-3 S 2 '25
Influence of the ash constituents in the carbonization and gasification of coal, with special reference to nitrogen and sulphur. C. B. Marson and J. W. Cobb. bibliog Gas J (Lond) 171:39-45; Discussion. 45-6 Jl 1 '25
Interpretation of coke surfaces and structures. A. Thau. il Chem & Met Eng 30:306-10 F 25 '24
Koksbeschaffenheit, bestimmung der eigenschaften und erzielung guter sorten. E. Diepschlag. Stahl & Eisen 44:496-8 My 1 '24
Making coke from non-coking coals by froth flotation. Coal Age 26:867 D 18 '24
Manufacture and use of coke. H. C. Lauber. Am Soc Heat & V E J 29:577-81 O '23
Mechanism of high temperature coal carbonization. D. W. Wilson. Am Gas Assn Technical sec v 5:952-64 '23
New coking installations of the Meguin type. E. Blau. diag Gas Age 55:831-2+ Je 13 '25
Perfectionnements apportés aux cokeries; abstract. H. Illies. Chimie & Ind 13:921-3 Je '25
Plastic state of coal. G. E. Foxwell. Gas J (Lond) 168:661-2 D 3 '24
Practical coal carbonization. A. R. Powell. diags Mech Eng 46:389-94 Jl '24
Present aspects of coal carbonization. S. J. Ramsburg. map Am Gas J 123:151-2+ Ag 22 '25
Rapports existant entre la composition des charbons et leur valeur pour la production du coke; abstract. Chimie & Ind 13:755-6 My '25
Selection, preparation and carbonization of coal and preparation of coke. A. W. Grant, jr. Am Gas Assn Technical sec v 6:957-70 '24; Same, without table. Gas Age 54:583-8 O 25 '24; Same cond. Am Gas J 121:1038-40 O 16 '24
Les services d'exploitation directe organisés dans la Ruhr par la Mission interalliée du contrôle des usines et des mines. P. Séverac. map Génie Civil 86:5-9 Ja 3 '25
Story of steel; making the 40 millions tons of coke needed annually in our blast furnaces. il Sci Am 131:98-9 Ag '24
Symposium on modern coking practice. Chem Age (Lond) 13:92-4 Jl 25 '25
What occurs in the formation of coke. A. Thau. il Chem & Met Eng 30:222-7 F 11 '24

See also Coke ovens; Coke plants, By-product

By-products

By-product coke and by-products in 1924. F. G. Tyron and H. L. Bennit. Chemicals 24: 6 Jl 6 '25
By-product coke oven plant, Hamilton. il Can Eng 46:359-65 Mr 25 '24
Coke and by-products in 1922. F. G. Tryon. U S Geol S Min Res of U S 1922, pt 2:671-799, pl 6 '25; Excerpts. Iron Age 114:1689-91 D 25 '24
Developments in recovering byproducts from coke-oven gases. E. V. Espenhahn. Chem & Met Eng 30:629-31 Ap 21 '24
Effluents from ammonia plants and their disposal. T. L. Bailey. bibliog Soc Chem Ind J (Chem & Ind) 44:835-45 Ag 21 '25
La fabrication industrielle de l'alcool synthétique dans les cokeries et usines à gaz. F. Vallette. diags Chimie & Ind 13:718-21 My '25; Abstract (Alcohol from coke ovens). Iron Age 116:419 Ag 13 '25
Kokerei und flüssige brennstoffe. P. Fritzsche. diags Zeit Ver Deutsch Ing 68:593-9 Je 7 '24
Les produits de la distillation de la houille; installations des fours à coke et des usines de récupération de la Société normande de métallurgie, à Caen. A. Grebel. il diags plan Génie Civil 84:585-93, pl 6 Je 21 '24
Sodium cyanide as a byproduct of coke making. M. E. Mueller. flow sheet Chem & Met Eng 30:978-80 Je 23 '24; Excerpt. Brass W 21:158 My '25

See also Benzene—Manufacture; Coke-oven gas; Coke plants, By-product

Cooling

Coke cooling and heat recovery. diag Am Gas J 123:11 Jl 4 '25
Conserving the heat in coke; a method of dry cooling and utilizing heat to useful purpose. M. C. Sissingh. diag Am Gas J 120: 285-7+ Mr 29 '24
Dry coke-cooling plant at Rotterdam. il diags plan Engineer 137:514, 515-17 My 9 '24
Dry-cooling coke with inert gas. C. H. S. Tupholme. il diags plans Chem & Met Eng 31:574-5 O 13 '24
Dry cooling of coke; the Sulzer system at Rotterdam. F. Johnstone-Taylor. diags Am Gas J 121:728 Ag 9 '24
Modern methods of coke quenching. Am Gas J 122:511 Je 13 '25

COKE-OVEN gas
Activated carbon extracts H_2S from coke oven gas. V. F. Gloag. Gas J (Lond) 165:708 Mr 19 '24
Calculations of the combustion of coke oven gas. F: M. Washburn. Blast F & Steel Pl 13:200-2 My '25
City gas from coke ovens? R. S. McBride. flow sheet diag Chem & Met Eng 31:735-6 N 10 '24
Combining industries to lower manufacturing costs; Hudson Valley coke and products corporation. J. R. Jennings. il plan Gas Age 55:773-4 My 30 '25
Disposal of coke oven gas for public supply. C. P. Finn. map Soc Chem Ind J 44:354-7 [bibliog. p. 356-7] Jl 17 '25
Feld process; obtaining pitch and tar oils, ammonia and sulphuretted hydrogen from coke oven gas. W. Funcke. diags Am Gas J 123:281-2+ O 3 '25
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 121:851-2 S 20 '24
Die gasumsetzungen in den kammern der mit einem gemisch aus hochofen- und koksofengas beheizten Siemens-Martin-oefen. W. Hülsbruch. Stahl & Eisen 45:1746-51 O 15 '25
Nitrogen from coal. H. A. Curtis. Chem & Met Eng 30:749-52 My 12 '24; Same. Gas Age 54: 147-50 Ag 2 '24
La reconstitution des cokeries du Pas-de-Calais particulièrement aux Mines de Lens et de Dourges. C: Berthelot. il diags Génie Civil 86:349-55, 379-84 Ap 11-18 '25
Silica gel as an industrial adsorbent. E. C. Williams. il diags Soc Chem Ind J 43:107-12 Ap 18 '24; Abstract. Gas J (Lond) 165:708-10 Mr 19 '24
Thermal operation of an ammonium sulphate saturator. D. S. Chamberlin and C. W. Beggs. il diags Gas Age 56:635-7 O 31 '25
Untersuchungen an koksgaserzeugern; abtract. E. Terres and J. Schierenbeck. Stahl & Eisen 44:988-9 Ag 14 '24
Utilization of waste heat from coke ovens. A. Parker. Gas J (Lond) 170:180-1 Ap 15 '25

See also Blast furnace gas; Coke manufacture—By-products

COKE ovens
Die beheizung von koksöfen unter besonderer berücksichtigung eines neuen ofens der amerikanischen Koppers company. J. van Ackeren. Stahl & Eisen 44:1112-13 S 11 '24
Carbonization of coal in bulk. Gas J (Lond) 167:385 Jl 23 '24
Carbonizing capacity of coke ovens. Gas J (Lond) 169:746-7 Mr 25 '25
Coke plant at Troy to have new features. il Iron Age 113:1075-6 Ap 10 '24
Description of the Koppers company ovens. H. J. Rose. il Am Gas Assn Technical sec v 5:1008-14 '23
Developments in the by-product coke-oven field. Chem & Met Eng 30:282 F 18 '24
Developments in the processing of coals. diags Chem & Met Eng 29:1064 D 10 '23

COKE ovens—*Continued*
Les fours à coke; abstract. E. Langrogne and A. Baille-Barrelle. Chimie & Ind 13:577-9 Ap '25
Les fours à coke; les règles modernes de leur construction et de leur exploitation. C: Berthelot. bibliog Soc Ing Civils Bul 77:383-432, pl 73 Jl '24; Abstract. Génie Civil 84:363 Ap 12 '24
Heat technology in byproduct coke and water-gas manufacture. diags Chem & Met Eng 30:558-9 Ap 7 '24
Heating of coke ovens. R. A. Mott and R. Wigginton. Soc Chem Ind J 44:350-4 Jl 17 '25
Mechanism of high temperature coal carbonization. D. W. Wilson. Am Gas Assn Technical sec v 5:952-64 '23
Neuere koksofenbauarten. O. Peischer. diags Stahl & Eisen 45:224-31 F 12 '25; Same (New coke-oven types). Blast F & Steel Pl 13:290-2, 314-17 Jl-Ag '25; Discussion. F. W. Sperr. 13:317-18 Ag '25
Perfectionnements dans les fours à coke à cornues. J. Becker. diag Chimie & Ind 13: 57 Ja '25
Piette coke ovens. diags Engineering 118:510-12, pl 52-3 O 10 '24
Present aspects of coal carbonization. S. J. Ramsburg. map Am Gas J 123:151-2+ Ag 22 '25
Refractories for coke ovens. W. J. Rees. Am Cer Soc J 7 (Cer A 3):266-8 S '24
Report of the Koppers company, Pittsburgh, Pa. H. J. Rose. il diags Am Gas Assn Technical sec v 6:1146-54 '24
Reversing regenerative ovens in Europe. C. H. Tupholme. diags plan Can Chem & Met 9: 13-15 Ja '25
Small-size coke ovens for city gas. il Chem & Met Eng 32:109-11 Ja 19 '25
Der stehende schwelofen. il diags Stahl & Eisen 44:1286-90 O 16 '24
Der stehende schwelofen. Stahl & Eisen 45: 625-31 Ap 23 '25
They had to build a special small-size coke oven for the job. il Chem & Met Eng 31: 734 N 10 '24
Tieftemperaturverkokung im geneigten doppeldrehofen. F. Müller. il diag Stahl & Eisen 45:885-7 Je 4 '25
Ueber einige verkokungsversuche mit neuen ofensystemen. P. Engler. Stahl & Eisen 43: 1404-8 N 8 '23; Discussion. 44:661-2 Je 5 '24

See also Coke manufacture; Coke-oven gas; Fire brick

Accidents

Accidents in the coke oven industry of the United States in the year 1923. Blast F & Steel Pl 12:485 O '24
Coke-oven accidents in the United States during the calendar year 1923. W: W. Adams. U S Bur Mines Tech Pa 371:1-35 '24; Excerpts. Monthly Labor R 20:1323-5 Je '25

COKE plants
La reconstitution de cokeries du Pas-de-Calais particulièrement aux Mines de Lens et de Dourges. C: Berthelot. diags Génie Civil 86:349-55, 379-84 Ap 11-18 '25
Visit to the Consett coke ovens and brick works. Gas J (Lond) 168:237-9 O 22 '24

Employees

Coke workers wages reduced. Iron Tr R 76: 784 Mr 19 '25

Equipment

Coke-pushing and coal-levelling machine designed by the Wellman Smith Owen engineering corporation. il diag Engineering 120: 66-8, 78 Jl 17 '25
Flood patent system of coke quenching and conveying. il Cassier's Ind Management 11: 159-60 Mr 20 '24

See also Coke handling

COKE plants, By-product
Alabama has made great progress in coking coal. F. W. Miller. il Coal Age 26:506-8 O 9 '24
By-product coke and gas oven industry in 1923. C. J. Ramsburg. il Blast F & Steel Pl 12:72-4 Ja '24
By-product coke capacity increasing. Iron Age 113:106-7 Ja 3 '24
By-product coke oven plant, Hamilton. il Can Eng 46:359-65 Mr 25 '24; Abstract. Gas Age 54:221-2 Ag 16 '24
By-product coking. G. S. Cooper. 2d ed., rev. & enl. 207p Van Nostrand '23
By-product summary. C. J. Ramsburg. il Blast F & Steel Pl 13:39-41 Ja '25
Coke ovens for making city gas. il Chem & Met Eng 32:42-3 Ja 12 '25
Coke ovens in a Canadian gas works. J. Stephenson. il diag Gas Age 56:563-6+ O 17 '25
Combining industries to lower manufacturing costs; Hudson Valley coke and products corporation. J. R. Jennings. il plan Gas Age 55:773-4 My 30 '25
Furnace coke plants lead others. Iron Tr R 75:1695 D 25 '24
It is economical to coke even low-grade Utah coal. il Chem & Met Eng 31:971-2 D 22 '24
More by-product coke plants for iron industry. Iron Age 115:128-30 Ja 8 '25
New Troy coke oven plant. H. O. Andrew. il Gas Age 56:67-8 Jl 18 '25
Les produits de la distillation de la houille; installations des fours à coke et des usines de récupération de la Société normande de métallurgie, à Caen. A. Grebel. il diags plan Génie Civil 84:585-93, pl 6 Je 21 '24
Report of the Semet-Solvay co., Syracuse, N.Y. R. L. Brown. il diag Am Gas Assn Technical sec v 6:1165-9 '24
Starting a byproduct coke plant in central Siberia. N. I. Kishor and H. Kweit. il Chem & Met Eng 32:44-6 Ja 12 '25
Visit to Messrs Jas. Nimmo & co.'s coke ovens at Chryston. Gas J (Lond) 165:317 F 6 '24
Weirton's new by-product plant. C. J. Hunt. il plan Blast F & Steel Pl 12:166-71, 193-9 Mr-Ap '24; Same cond. Iron Age 113:573-7, 653-7 F 21-28 '24; Same cond. Iron Tr R 74: 984-9+, 1053-7 Ap 10-17 '24; Same cond. Gas Age 53:515-19, 563-4 Ap 19-26 '24

See also Coke manufacture—By-products

Power

New boiler plant of Byproducts coke corporation. il diag Power 62:196-9 Ag 11 '25

Safety devices and measures

By-products coke oven hazards and their elimination. J: F. O'Malley. il Gas Age 52: 789-92 D 29 '23

COKE screening
Improved screen for the grading of coke. diag Gas J (Lond) 164:709 D 12 '23
Novel type of coke-grading screen. diag Gas Age 55:190 F 7 '25
Reclaiming coke from water gas generator ash. J. A. Beck. il Gas Age 56:425-6 S 26 '25

COKE separators
Columbus coke separator at the Tradeston gas-works, Glasgow. il Gas J (Lond) 169: 407 F 18 '25
Gas works ashes considered as a source of income. S. H. Bunnell. il Gas Age 53:901-2 Je 28 '24
Makes money from ashes. S. H. Bunnell. diag Power Pl Eng 28:964-5 S 15 '24
Profit from cinders. C. M. Walker. plan Gas Age 55:119-20 Ja 24 '25
Recovering coke from ashes. S. H. Bunnell. il Am Gas J 120:545+ Je 14 '24
Recovery of coke from pan ash. il Gas J (Lond) 164:377 N 7 '23

See also Coke screening

COKE washing
Recovery of coke from pan ash. il Gas J (Lond) 164:377 N 7 '23

COLD

See also Cooling; Freezing; Refrigeration and refrigerating machinery

COLD light
Cold light for the microscope. A. Silverman. il diag Ind & Eng Chem 17:573 Je '25
See also Luminescence

COLD storage
American warehousemen's association annual meeting, Cold storage division. Refrig W 59: 32-4 Mr '24
American warehousemen's association annual meeting, Cold storage division. Refrig W 60:27-9 Ja '25
Cold storage and our food supply. F. A. Horne. Refrig Eng 11:429-32 Je '25
Cold storage for furs and fabrics. H. J. Macintire. diags Heat & Ven 21:47-9 Jl '24
Cold storage of pears. E. L. Overholser and L. P. Latimer. Refrig W 60:19-22 Mr '25
Cold storage warehousing in U.S. F. A. Horne. Refrig W 59:15-19 Ag '24
Economic value of cold storage and our food supply. F. A. Horne. Refrig W 60:25-8 Je '25
Effect of cold storage on clothe moths. E. A. Back and R. T. Cotton. Refrig W 59:26 Ap '24
Modern trend in applying ozone to cold storage. F. E. Hartman. il diags Refrig Eng 11:409-14; Discussion. 414-15 Je '25
Ozone and cold storage. F. E. Hartman. il diag Refrig Eng 11:173-9 N '24
Perishable food products. M. W. Browne. Refrig W 58:23-5 D '23
Presence of vitamin A in frozen pork. A. M. Wright. Soc Chem Ind J 42:509 D 28 '23
Preservation of quickly perishable fruits and vegetables; freezing in sugar solution. E. L. Overholser. Refrig W 60:25-6 Jl '25
Refrigerated food resources of Canada. J. A. Ruddick. Refrig W 59:22 S '24
Refrigeration and its relation to public health; abstract. C: J. Hastings. Refrig W 59:29-30 Ag '24
Revenues and costs in cold storage warehousing. G. A. Lamoreaux. Refrig W 60:19-20+ O '25
Summary of cold storage holdings in the United States. Published in monthly numbers of Refrigerating engineering
Temperature, humidity, air circulation, ventilation and equipment for their application and control. M. R. Carpenter. Refrig Eng 12: 65-7 Ag '25
Types of doors for cold storage; abstract. S. P. Stevenson. Refrig W 59:28 Ag '24
See also Fish, Frozen; Meat, Frozen; Refrigerating plants; Refrigeration and refrigerating machinery; Refrigerator cars; Warehouses

COLD storage warehouses
Builds modern storage plant. E. C. McCain. il Refrig W 60:17-18 O '25
Cold-storage and terminal warehouse at Cincinnati. il plans Eng N 93:138-42 Jl 24 '24
Cold storage plant in Los Angeles of unusual construction. il Concrete 27:43 S '25
Ice-making and cold-storage plants in Australia and New Zealand. U S Bur For & Dom Com Trade Information Bul 280:1-33 '24
Ice-making and cold-storage plants in Canada. U S Bur For & Dom Com Trade Information Bul 338:1-27 '25
Ice-making and cold-storage plants in the United Kingdom. U S Bur For & Dom Com Trade Information Bul 330:1-32 '25
Modern ice making, cold, dry and ice storage building. S. T. Smith. il plans Am Arch 125:341-6 Ap 9 '24

Accounting

Apportioning engine rooms costs in combined ice making and cold storage plants. J. H. Howell. Refrig W 60:12-14 Ag '25

COLD working of metals. See Metals, Cold working of; Steel, Cold working of

COLEMAN lamp company
Making romantic advertising bring practical results. Ptr Ink 132:117+ Jl 30 '25

COLEMANITE
Borax from colemanite. B. G. Wood. il Chem & Met Eng 30:976-8 Je 23 '24
Mining borax in the Muddy range. G: J. Young. il Eng & Min J 117:276 F 16 '24
World's biggest borax deposits situated in the desert areas of California and Nevada. W: F. Foshag. il diag Eng & Min J 118:419-21 S 13 '24

COLGATE and company
Colgate wins decision in bout with Federal trade commission. Sales Management 8:57 Ja 10 '25
Colgate's dealer policy upheld. Ptr Ink 129:97-8+ D 18 '24
Policy that guided 118 years of steady growth. S. M. Colgate. il System 46:717-20+ D '24

COLLAGEN
Thermolability of collagen. A. W. Thomas and M. W. Kelly. Am Chem Soc J 47:833-6 Mr '25

COLLARS
Earl & Wilson reduce line in order to plus the sale. C. B. Larrabee. Ptr Ink 126:10+ F 21 '24
How Ide sells its salesmen on each new model. I. Fleming. Ptr Ink 128:17-19 S 25 '24
Kinks that keep your collars from wearing out. il Sci Am 132:118 F '25
Standardizing soft collars in four styles. il Am Exporter 95:50-1 Jl '24
Why we side-tracked precedent in our spring sales program. J. B. Wright. il Sales Management 6:791-2 Ap '24

Advertising

Unusual layout simplifies a complicated advertising story. M. Phillips. Ptr Ink 125: 33-4+ N 29 '23

Manufacture

Machine for treating fabrics with strong sulfuric acid for the production of parchmentized or stiff finished fabrics. R. F. Bacon, C. H. Kidwell and P. H. Bascom. diags Color Tr J 13:211-14 D '23

COLLECTING of accounts
Billing and collecting methods. E. R. Prentice. Am Water Works Assn J 13:39-41 Ja '25; Same. Eng & Contr (W W) 63:319-20 F 11 '25
Building future sales and good will with a collection campaign. N. Schultz. Sales Management 8:815-16 My 30 '25
Coaxing letters for stubborn dollars. C. McPherson. Sales Management 6:917-18 My '24
Collecting bad debts. H. L. Stevens. Sanitary & Heat Eng 103:118-19 F 20 '25; Same cond. Dom Eng 108:29+ S 13 '24
Collecting bills and avoiding complaints. L. O. Gordon. Am Gas J 122:485-6+ Je 6 '25
Collecting by helping the dealer collect. R. M. Dulin. System 46:428-9 O '24
Collection correspondence and agency practice. T. N. Beckman and F. E. Held. 193p McGraw-Hill '25
Collection letters. R. M. Dulin. 95p Ronald press '24
Collection letters that do not beat around the bush. E. B. Weiss. Ptr Ink 126:81-2+ Ja 31 '24
Collection letters that fit in the sales policy. R. Dickinson. Ptr Ink 128:25-6+ S 4 '24
Collection letters that leave no sting. Ptr Ink 132:152-3 Jl 16 '25
Collection start that brings prompt payment. G. F. Muse. System 45:346+ Mr '24
Collections and public relations. A. B. Wollaber. Elec W 86:842-3 O 24 '25
Cost of carrying overdue accounts. J. W. Hallman. Management & Adm 7:63-4 Ja '24
Credit procedure that increased volume. R. E. Nicholas. il System 47:169-70+ F '25
Credits and collections in theory and practice. T. N. Beckman. 465p McGraw-Hill '24
Do you help your retailers with their collection problems? Ptr Ink 128:53-4+ Jl 17 '24
Does the smiling letter get the money? System 46:581-2+ N '24
Effective collection letters. J. H. Tregoe and J: Whyte. 514p Prentice-Hall '24; Excerpt (Introduction), Credit M 26:20+ Je '24

COLLECTING of accounts—*Continued*
Getting form out of collection form letters. W. B. Edwards. Ptr Ink 127:149-50+ My 15 '24
Help your dealers solve their credit problems. R. M. Dulin. Ptr Ink 131:25-6+ Je 18 '25
Helping the retailer with his collection letters. Ptr Ink 126:44+ Ja 10 '24
How to cut collection costs. F. R. Otte. Forbes 15:767-9 Mr 15 '25
How we cut down losses from bad debts to next to nothing. G: I. Schreiber. Ptr Ink 130:17-20 Ja 22 '25
How we cut outstandings 50% with a 12-week contest. S. Q. French. il System 46:51-3 Jl '24
I am remitting today. System 48:38 Jl '25
It quickens collections. System 47:610 My '25
Let's remove bunk from collection letters. W. B. Edwards. Ptr Ink M 9:63-4 Jl '24
Letters that collect bills for small amounts. M. Droke. Ptr Ink 126:33-4+ Ja 17 '24
Money-saving code. H. W. Perry. Credit M 27:8+ S '25
Now they all pull; the mail-order methods and collection policy of El Vandoma. R. M. Rose. System 46:287-8+ S '24
Our credit losses are a thing of the past. T. L. Gant. System 45:418-19+ Mr '24
Peaceful pleas for prompt payments. J. R. Hammond. Inland Ptr 73:51-3 Ap '24
Practical collection procedure. R. R. Hottman. 244p Northwestern bus. press, La Crosse, Wis. '23
Prompt collection of outstanding accounts. F. Steele. Sanitary & Heat Eng 101:33-5 Ja 25 '24
Selling honesty—or the new school of collections. B. W. Griffin. Forbes 14:109-11 Ap 26 '24
Selling terms and goods; salesmen as collectors. D. F. Rock and others. Credit M 7:18-19 Je '25
Should sales executives boss the collection department? C. C. Casey. Ptr Ink M 8:17-18+ My '24
Sub-committee report on credit and collection policies and contractual relations with customers. Am Gas Assn Accounting sec v 5: 344-61; Discussion. 388-94 '23
Taking the unpleasantness out of collecting. R: C. Walter. il Inland Ptr 74:894-5 Mr '25
Talking turkey quadrupled sales. R. Crothers. Ptr Ink 126:137-8+ Mr 20 '24
This is not the sales manager's job; collection departments. H. G. Willnus. Ptr Ink 128: 89-90 Jl 24 '24
Three collection ideas that really collect. System 48:160 Ag '25
Turning spongers into regular customers. Ptr Ink 125:145-6 N 29 '23
Way to quicken collections. R. M. Dulin. System 45:166 F '24
We are remitting today. System 45:806+ Je '24
We cut our bad debt loss in two. C. M. Gregoire. Credit M 26:19+ My '24
We tightened our collections—yet increased sales 50%. C: L. Davies. System 47:752-5+ Je '25
We use collections as a sales tool. J: M. Smyth. il System 48:557-9 N '25
Why we do not use the personal or humorous collection letter. S. C. Gunn. System 45: 473-5+ Ap '24

See also Billing; Collection agencies

COLLECTION agencies
American directory of collection agencies. 7th ed. 133p Service pub. co., Washington '24
Collection agencies. W: C. Krumbein. Univ J of Business 3:48-67 D '24

COLLECTION agreements. See Banks and banking—Collection agreements

COLLECTIVE agreements. See Trade agreements

COLLECTOR rings. See Slip rings

COLLECTORS and collecting
Amateur collector; everybody's book on collecting. G: C: Williamson. 324p Robt. M. McBride, 7 W 16th St., New York '24

COLLEGE advertising
Advertising for students at a profit. D. E. Robinson. Ptr Ink 128:160+ Jl 24 '24

COLLEGE architecture
Baltimore City college competition. il Am Arch 126:133-8 Ag 13 '24
Cathedral of learning. il Sci Am 133:13 Jl '25
La Cité Universitaire de Paris; la Fondation Deutsche de la Meurthe. A. Bidault des Chaumes. il plans Génie Civil 87:281-5, pl 3 O 3 '25
Competition for new buildings for University of Brussels under gift of Commission for relief in Belgium educational foundation. il Am Arch 124:571-3 D 19 '23
Denison university, Granville, Ohio; views and plan. Am Arch 124:554a-l D 19 '23
Divinity group, Capital university, Bexley, Ohio; views and plans. Am Arch 126:pl 41-3 Jl 30 '24
Duncker Hall of commerce and finance, Washington university, St. Louis, Missouri; views and plans. Arch Rec 57:225-31 Mr '25
Hart House, University of Toronto. J. B. Bickersteth. il plans Arch Forum 40:11-16, pl 1-9 Ja '24
Manhattan college, New York city. Arch & Bldg 56:85, pl 177-82 S '24
New buildings for the University of Brussels. M. Wilcox. il plan Arch Rec 55:108-12 Ja '24
Union college and the Jackson garden. R: Schermerhorn, jr. il plan Am Arch 124:541-4 D 19 '23
University of Nanking, China. il plans Am Arch 127:65-64 Ja 28 '25
University of Pittsburgh. il J Eng Educ 15: 218-20 N '24

See also College buildings; Dormitories; Fraternity houses; Normal schools; Stadia; *also* Avon, Old Farms

COLLEGE athletics
General participation in athletics in the student health program. W: H. Barrow. il Nation's Health 6:528-9+ Ag '24

COLLEGE buildings
Southern educational buildings a most active field. C. A. Carroll. Eng & Contr (Bldgs) 61:1188-90 My 28 '24

See also Chemical laboratories; College architecture; Dormitories; Iowa. University—Chemical building; Michigan university—Lawyers' club; Pittsburgh. University; Queen's university—Jock Harty arena; Teachers college, Columbia university, New York; University City, Paris

COLLEGE chapels. See Chapels

COLLEGE education
College education and professional training. W. E. Wickenden. J Eng Educ 15:180-3 N '24
Personnel work in the colleges. W. J. Creamer, jr. J Eng Educ 15:706-11 My '25

See also College graduates

COLLEGE entrance examinations
Correlation of the examinations of the college entrance examination board with college standing. C. C. Brigham. J Eng Educ 15: 653-89 My '25

COLLEGE fraternities

See Fraternity houses

COLLEGE graduates
Broader training needed for college graduates. E. B. Fields. Ry Mech Eng 97:797-8 D '23
Call of the public utilities to bright young men. S. Insull. Aera 13:1814-23 Je '25
Can railroads use the universities? W. M. Daniels. Ry Age 78:1083-5 My 2 '25; Discussion. 78:1195-6 My 16 '25
Can you turn a college man loose in your factory? R. C. Kelley. Factory 34:924-6 Je '25
College graduate as a life insurance salesman. Ptr Ink 132:93-4 Jl 2 '25
College man in railroad service. C: Weiss. Ry R 75:122-4, 159-60, 200-1, 244-6, 588-9 Jl 26-Ag 16, O 18 '24

COLLEGE graduates—*Continued*
College men and railway service. W. M. Daniels. Ry Age 78:375-6 F 7 '25
College men in textile industries. Am Ind 25:12 Mr '25
College men in the bleachery. M. W. Alling. Am Dyestuff Rep 13:77-80 F 11 '24
College men on the railroads. Ry Age 78:867-8 Ap 4 '25
Fitting the college man into industry. W. D. Stearns. il Prof Eng 9:11-13 F '24
Help wanted by technical college man. G: P. Bowman. Iron Age 112:1437-40 N 29 '23; Same. Chem Age 31:543-6 D '23; Same. Eng & Contr (Bldgs) 62:197-201 Jl 23 '24
Railroads need college men. R. O. Johnson. Ry Age 79:427 S 5 '25
Recruiting from the colleges. J: Mills. Elec W 84:1382-3 D 27 '24
Report of the special A.R.E.A. committee on co-operative relations between the railroad and the universities. Ry R 76:530-1 Mr 14 '25
Selecting and placing college graduates. J: Mills. Iron Age 115:757-9 Mr 12 '25
Vocational guidance for college students. L. L. Thurstone and C: R. Mann. (Reprint and Circ. Ser. 62) p. 421-48 40c National research council '25
Young college man's value to business; experience of thirty-three industrial concerns. R. Dickinson. Ptr Ink 131:3-4+ My 21; 134+ Je 4 '25

See also College education

COLLEGE hygiene
Student health work emphasizes prevention as well as cure. C: M. Seiver. il Nation's Health 7:556-8 Ag '25
University cherishes health of thousands of students. J. F. Wright. il Nation's Health 6:755-7 N '24

COLLEGE journals. See Advertising mediums—College journals

COLLEGE libraries
Departmental libraries. L: T. Ibbotson. bibliog Lib J 50:853-8 O 15 '25

COLLEGE professors and instructors
The teacher in industry. Ind & Eng Chem 16:553-4 Je '24

Salaries

Comparison of average maximum salaries paid to all teachers in American universities and colleges with salaries paid to teachers in electrical engineering departments of these universities and colleges; tabulation. Elec W 84:312 Ag 14 '24

COLLEGE students
Analysis of a student market. L. S. Lyon. Univ J of Business 2:481-90 S '24
Are college students a dependable index of consumers? G. B. Hotchkiss and R. B. Franken. Ptr Ink M 8:86+ Je '24
Engineering-student raw material as compared with that of ten years ago. W: T. Magruder. J Eng Educ 15:751-7 Je '25
Give a thought to the college man who works his way. Forbes 14:731-2 S 15 '24
Health examinations of college students. F: L. Hoffman. Spectator 115:31-2 Ag 20 '25
When a satellite market is worth going after; Sheaffer pen college campaign. M. Hastings, jr. Ptr Ink 133:139-40+ O 1 '25

See also College entrance examinations; College hygiene

Grading

Iowa placement examinations. G: D. Stoddard. J Eng Educ 16:158-63 O '25
Selective sectioning in thermodynamics; a progress report on a continuing pedagogical experiment. G: W. Munro. J Eng Educ 15: 202-13 N '24

COLLEGES and universities
Business and higher learning. J. H. Penniman. Nation's Business 13:56+ N '25

See also Agricultural colleges; College architecture; Engineering colleges; Scholarships and fellowships; *also* names of colleges and universities, e.g. Antioch college; Commonwealth college, Mena, Arkansas; Cornell university; Dennison university, Granville, Ohio; Harvard university; Leeds university

Accounting

College and university accounting. W: B. Franke. J Account 39:170-81 Mr '25

Advertising

See College advertising

Curriculum

Honors courses in American colleges and universities. F. Aydelotte. Nat Research Council Bul v 10, pt 2:1-96 Ap '25

Gifts, legacies, etc.

Endowing colleges and universities by life insurance bequests. S. L. Morton. Econ W n s 30:490-1 O 3 '25; Excerpts. Spectator 115:27+ O 8 '25
Insuring of students and alumni for the benefit of the Alma Mater. J. E. Kavanagh. Econ W n s 30:528-31 O 10 '25; Excerpt. Spectator 115:13 O 8 '25

Professional service

See Professional service

Germany

Present economic situation of the German student body. E. Boehler. Monthly Labor R 17:1000-6 N '23

United States

Bureaux for economic and business research in American universities. Z. C. Dickinson. Econ J 35:398-415 S '25
Survey of the university system and its advantages. E. C. C. Baly. Chem Age (Lond) 12:276 Mr 21 '25

COLLETS
Adapter for spring collets. M. Wright. diag Am Mach 59:960 D 27 '23
How Rivett makes spring collets. il Am Mach 59:865-7 D 13 '23

COLLODION
Preparation of membranes with uniform distribution of pores. F. E. Bartell and M. Van Loo. J Phys Chem 28:161-5 F '24

COLLOID mill
Disintegrating mills. G. C. Hurrell. Chem Age (Lond) 10:440 Ap 26 '24
New colloid mill. W: A. McLean. il Ind & Eng Chem 16:494-7 My '24; Same abr. Chem & Met Eng 30:675-7 Ap 28 '24; Same. Can Chem & Met 8:284-7 D '24
New development in refining and finishing of paper pulp; use of Hurrell homogenizer. K. A. Pelikan. Paper Tr J 81:52-4 O 22 '25
Plauson colloid mill. W. J. Kelly. il diags Ind & Eng Chem 15:926-8 S '23; Abstract. Soc Dyers & Col J 39:362-4 D '23
Premier and other disintegrating mills and their applications in industry. F. J. C. China. diag Chem Age (Lond) 10:374-6 Ap 12 '24

COLLOIDS
Adsorption and Schulze's law. H. B. Weiser. J Phys Chem 29:955-65 Ag '25
Adsorption by precipitates. H. B. Weiser. J Phys Chem 28:232-44, 1253-64 Mr, D '24
Adsorption of dyes by soils. J. A. Wilkinson and W. Hoff. J Phys Chem 29:808-15 Jl '25
Analysis of the suspension of enamel by clay in terms of the colloid theory. E. P. Poste. Am Cer Soc J 8:232-8 Ap '25
Application of colloidal chemistry to textile problems. A. A. Claflin. Am Dyestuff Rep 13:541-4+ Ag 25 '24
Baudrimont as colloid chemist. W. D. Bancroft. J Phys Chem 28:256-62 Mr '24
Centrifugal force and electricity for taking colloids out of suspension. Chem & Met Eng 31:387 S 8 '24
Chemistry of colloids; abstracts. E. K. Rideal. Chem Age (Lond) 10:91, 115, 137 Ja 26-F 9 '24; Engineering 117:181 F 8 '24

COLLOIDS—*Continued*

Chemistry of milk and dairy products viewed from a colloidal standpoint. L. S. Palmer. bibliog Ind & Eng Chem 16:631-5 Je '24

Colloid chemistry. J. Alexander. 2d ed. rev. & enl. 208p [bibliog. p. 195-6] Van Nostrand '24

Colloid chemistry in the technology of oils and fats. N. G. Chatterji. Chem Age (Lond) 10:56-8 Ja 19 '24

Colloid chemistry of color varnish. F. E. Bartell and M. Van Loo. il diags Ind & Eng Chem 17:925-9, 1051-6 S-O '25

Colloid chemistry; Wisconsin lectures. T. Svedberg. 265p [bibliog. p.251-7] Chemical catalog co. '24

Colloid properties of dyes. G. Heyl. Color Tr J 13:190-3; 14:47-9, 149-51; 15:4-6 D '23, F, My, Jl '24

Colloid properties of rubber and compound ingredients. E. B. Spear. India Rubber W 71:18-20 O '24

Colloid protection—the phenomenon of reverse protection; abstract. N. P. Peskov and V. V. Thet'yakov. Soc Dyers & Col J 40:308 S '24

Colloid studies in rosin sizing. R. Lorenz. Tech Assn Pa ser 7:140-61 Je '24; Same. Paper Tr J 78:61-8 Je 5; 47-52 Je 12; 43-5 Je 19; 52-4 Je 26; 79:51-5 Jl 3 '24

Colloid symposium monograph. H. N. Holmes, ed. 368p [bibliog. p. 359-68] Chemical catalog co. '25

Colloid symposium monograph. J. H. Mathews, ed. 419p Univ. of Wisconsin, Dept. of chemistry, Madison '23

Colloid systems in nitrobenzene. F: S. Brown and C: R. Bury. J Phys Chem 29:1312-16 O '25

Colloidal complications in the thiocyanate method of estimating soil acidity. F. O. Anderegg and R. P. Lutz. Ind & Eng Chem 17:1153-4 N '25

Colloidal nickel hydroxide. O. F. Tower. J Phys Chem 28:176-8 F '24

Colloidal protection. J. Alexander. Soc Chem Ind J (Chem & Ind) 43:1256-8 D 19 '24

Colloidal purification of feed water. C. H. S. Tupholme. Power Pl Eng 29:281 Mr 1 '25; Discussion. 29:402, 660 Ap 1, Je 15 '25

Colloidal separations in alloys. J. H. Andrew and R. Hay. il Engineering 120:311; Discussion. 299 S 4 '25

Colloidics of petroleum; abstract. A. E. Dunstan, F. B. Thole and W. H. Thomas. Chem Age (Lond) 12:583 Je 13 '25

Colloids and papermaking. R. Fournier. Paper 34:477-80 Jl 3 '24

Colloids and the formation of white spots in photographic emulsion papers. T. Bentzen. Paper Tr J 80:45 Mr 26 '25

Colloids as hydropsical anasarks. Chem Age (Lond) 9:535-7 N 17 '23

Colloids in cane and beet sugar manufacture. H. S. Paine, M. S. Badollet and J. C. Keane. Ind & Eng Chem 16:1252-8 D '24

Colloids in glass. A. Silverman. Am Cer Soc J 7:795-802 N '24

Colloids in industrial operations. Chem & Met Eng 32:637-8 Jl '25

Colloids in petroleum and in the petroleum industry. A. E. Dunstan, E. B. Thole and W. H. Thomas. Soc Chem Ind J 44:439-43 Ag 28 '25

Conditions of precipitation, by electrolytes, of selenium hydrosol and other hydrosols. J. J. Doolan. J Phys Chem 29:178-87 F '25

Determination of size and distribution of size of particle by centrifugal methods. T. Svedberg and J. B. Nichols. il diag Am Chem Soc J 45:2910-17 D '23

Development of colloid chemistry. W. D. Bancroft. J Fr Inst 199:727-60 Je '25

Discussion on the stability of colloids. Soc Chem Ind J (Chem & Ind) 44:401-2 Ap 17 '25

Dissolution of substances in mixed liquids with special reference to colloids. E. W. J: Mardles. Chem Soc J 125:2244-59 N '24

Distribution of colloidal particles. E. F. Burton and J. E. Currie. Philos Mag 6th ser 47:721-4 Ap '24

Effect of colloids in the displacement of lead and copper from their salts by zinc. L. T: M. Gray. Chem Soc J 127:776-80 Ap '25

Effect of hydrophilic colloids on size and distribution of particles in electrolytic precipitation; gelatin and basic lead carbonate. W. G. France and D. McBurney. Am Chem Soc J 46:540-4 Mr '24

Effects of ions in colloidal systems. L. Michaelis. 108p Williams & Wilkins co., Baltimore '25

Electrical behaviour of radioactive colloidal particles of the order of 10^{-5} cm. as observed separately in a gas. F. Ehrenhart. Philos Mag 6th ser 49:633-48 Ap '25

Electro-osmotic experiments on the reversal of the electrical charge of colloids and precipitates and the preparation of stable sols with a charge opposite in sign to that commonly obtained. J. N. Mukherjee and B. C. Roy. Chem Soc J 125:476-88 Mr '24

Elements of colloidal chemistry. H. Freundlich. 210p Dutton '24

Equilibrium across a parchment membrane in the case of sodium chloride in presence of sodium caseinate. P. A. Sporing. Chem Soc J 125:2316-19 N '24

L'étude des solutions de savon au point de vue de la chimie des colloïdes. G. W. MacBain. bibliog Chimie & Ind 11:3-7 Ja '24

Feed-water treatment; the use of colloids. Elec R (Lond) 96:250 F 13 '25

Formation of arsenate jellies. H. B. Weiser and A. P. Bloxsom. J Phys Chem 28:26-40 Ja '24

Formation of colloid solutions by electrical pulverization in the high-frequency alternating current arc. E. O. Kraemer and T. Svedberg. diags Am Chem Soc J 46:1980-91 S '24

Formation of periodic precipitates. N. R. Dhar and A. C. Chatterji. J Phys Chem 28:41-50 Ja '24

Foundations of colloid chemistry. E. Hatschek, ed. 173p Macmillan '25

Freezing of inorganic hydrogels. J. R. I. Hepburn. Soc Chem Ind J (Chem & Ind) 43: 91-2 Ja 25 '24

Great temple of the future: proposed National institute for research in colloid chemistry. Chem & Met Eng 30:540-1 Ap 7 '24

Hydrogen ion concentration and water purification at Cedar Rapids, Iowa. F. C. Mortensen. bibliog Am Water Works Assn J 13:33-8 Ja '25

Influence of adsorption on the colour of sols and of precipitates. N. R. Dhar. J Phys Chem 29:1394-9 N '25

Influence of anions on the coagulation of negatively charged suspensoids. J. N. Mukherjee and S. G. Chaudhuri. Chem Soc J 125:794-802 Ap '24

Influence of colloids on the rate of reactions involving gases; decomposition of hydrogen peroxide and of nitrosotriacetonamine. A. Findlay and W: Thomas. Chem Soc J 125: 1244-52 Je '24

Influence of dispersion on vat dyeing. B. Wuth. Am Dyestuff Rep 13:291-5; Discussion. 295-7 My 5 '24

Influence of emulsoids upon the rate of solution of iron. J. N. Friend, D. W. Hammond and G. W. Trobridge. Am Electrochem Soc Trans v 46 (preprint 14):197-208 O '24

Influence of hydrogen-ion concentration on the protective action of gelatin on Zsigmondy's standard gold sol. H. V. Tartar and J. R. Lorah. J Phys Chem 29:792-8 Jl '25

Kinetics of the process of coagulation of colloids in the light of Smoluchowski's theory. J. N. Mukherjee and S. K. Majumdar. Chem Soc J 125:785-94 Ap '24

Kolloidwissenschaft und technik. W. Ostwald. Zeit Ver Deutsch Ing 68:481-4 My 17 '24

Limited significance of hydrogen ion concentration as a factor in determining the condition of lyophilic sols. H. R. Kruyt and H. C. Tendeloo. J Phys Chem 29:1303-11 O '25

Mathematical treatment of the electric conductivity and capacity of disperse systems. H. Fricke. Phys R 24:575-87 N '24

COLLOIDS—*Continued*
Mechanical condition of coagula and its bearing on the theory of complete coagulation. S. S. Bhatnagar, K. K. Mathur and D. L. Shrivastava. diag J Phys Chem 28:387-96 Ap '24
Nature of corrosive action, and the function of colloids in corrosion, with an appendix on terms used in colloid chemistry; abstract. G. D. Bengough and J. M. Stuart. Am Water Works Assn J 13:349-50 Mr '25
New pattern formed by colored salts in solid gels. E. R. Riegel and L. Widgoff. il J Phys Chem 29:872-4 Jl '25
Peptisation. A. V. Slater. bibliog Soc Chem Ind J 44:499-506 O 30 '25; Abstract. Chem Age (Lond) 11:598 D 13 '24
Physical properties of textile fibers in relation to the general colloid theory; abstracts. S. A. Shorter. Color Tr J 15:178-9 D '24; Soc Dyers & Col J 41:141-2 Ap '25
Pollopas—organic glass; a new synthetic colloid. F. Pollak and K. Ripper. Chem Age 32:409-12 O '24
Preparation and properties of some protected silver sols. I. D. Garard and G. E. Duckers. Am Chem Soc J 47:692-6 Mr '25
Protective action of soaps on Zsigmondy's gold sols. B. Papaconstantinou. J Phys Chem 29:319-22 Mr '25
Proteins and the theory of colloidal behaviour. J. Loeb. 2d ed. 380p McGraw-Hill '24
Recent advances in colloid chemistry. A. V. Slater. Chem Age (Lond) 11:234-5, 260-1 S 6-13 '24
Recent investigations of soil colloids. P. L. Gile. Am Soc C E Pro 51:886-93 [bibliog. p. 892-3] My '25
Reversible colloid of iron. A. F. G. Cadenhead and W. H. Vining. Can Chem & Met 8:65 Mr '24
Scattering of light by very big colloidal particles. W. Shoulejkin. diags Philos Mag 6th ser 48:307-20 Ag '24
Sedimentation of bentonite. H. F. Coward. Chem Soc J 125:1470-4 Jl '24
Soaps and the theory of colloids. J. W. McBain. Chem Age (Lond) 12:309 Mr 28 '25
Softening hot water supplies; the colloidal treatment. Chem Age (Lond) 12:250 Mr 14 '25
Some observations on the colloidal character of asphalts. R. E. Kirk and L. H. Reyerson. J Phys Chem 29:865-71 Jl '25
Some recent advances in the field of colloids. T. Svedberg. il diags Chem R 1:249-75 [bibliog. p. 274-5] O '24
Splendid progress in field of colloids; second meeting of colloid chemists. Chem & Met Eng 30:1020-1 Je 30 '24; Ind & Eng Chem 16:758 Jl '24
Stability of colloidal solutions; aluminium hydroxide suspension. K. C. Sen. J Phys Chem 28:1029-35 O '24
Stability of colloidal solutions; the influence of negative ions, the effect of dilution and ageing and the influence of capillary active non-electrolytes on the coagulation of copper ferrocyanide sol. K. C. Sen. J Phys Chem 29:517-39 My '25
Studies in adsorption. S. Ghosh and N. R. Dhar. J Phys Chem 29:435-61 Ap '25
Studies in adsorption; a new interpretation of the Schulze-Hardy law and the importance of adsorption in the charge reversal of colloids. N. R. Dhar, K. C. Sen and S. Ghosh. J Phys Chem 28:457-74 My '24
Studies in adsorption; influence of ions carrying the same charge as the sol on the coagulation of sols of (i) prussian blue and of (ii) positive ferric hydroxide. S. Ghosh and N. R. Dhar. J Phys Chem 29:659-78 Je '25
Studies in swelling; the swelling of agar-agar gels as a function of water content before swelling. B. L. Clarke. Am Chem Soc J 47: 1954-8 Jl '25
Studies on adsorption. K. C. Sen, P. B. Ganguly and N. R. Dhar. J Phys Chem 28:313-32 Ap '24
Sulfite liquor as a protective colloid. E. C. Bingham, G. F. Rolland and G. E. Hilbert. Ind & Eng Chem 17:952-3 S '25
Surface concentration of sodium oleate and of colloidal sulphur. J. M. Johlin. J Phys Chem 29:1129-39 S '25
Surface tension of colloidal solutions and dimensions of certain organic molecules. P. Lecomte du Noüy. il Philos Mag 6th ser 48:264-77 Ag '24; Abstract. J Fr Inst 198: 811-12 D '24
Theory and application of colloidal behavior. R. H. Bogue. 2v McGraw-Hill '24
Twilight zone of matter. A. Findlay. Ind & Eng Chem 17:891-4 S '25; Same. Chem Age (Lond) 13:274-5, 328-9 S 12, 26 '25
Ultra-centrifuge, a new instrument for the determination of size and distribution of size of particle in amicroscopic colloids. T. Svedberg and H. Rinde. il diags Am Chem Soc J 46:2677-93 D '24
Use of colloids in medicine. A. Davidson. Chem Age (Lond) 11:134-6 Ag 9 '24

See also Absorption; Brownian movements; Catalysis; Cellulose; Coagulation; Collagen; Electric double layer; Emulsions; Gelatin; Liesegang rings; Particles; Proteins; Silica gel; Soap; *also* National institute for research in colloid chemistry (proposed)

Bibliography

Bibliography of colloid chemistry. H. N. Holmes. 135p Nat. research council, Washington, D.C. '23

COLLOTYPE
What process shall we use? W: A. Kittredge. il Ptg Art 42:447-52 Ja '24

COLOGNE, Germany
Cologne zone will not be evacuated Jan. 10 by allied troops—Germany charged with evading armament provisions of treaty of Versailles. Comm & Fin Chr 120:35 Ja 3 '25

COLOMBIA

See also Bonds, Government—Colombia; Finance—Colombia; Petroleum—Columbia; Railroads—Colombia

Commerce

Caribbean markets for American goods. W. D. Brown. U S Bur For & Dom Com Trade Information Bul 342:1-20 '25

Economic conditions

Banking reform in Colombia. H. M. Jefferson. Credit M 26:12+ F '24
Foreign securities in American markets. Annalist 22:640-1+ N 12 '23

Industries and resources

Colombia; commerce and industries, 1922 and 1923. U S Bur For & Dom Com Trade Information Bul 223:1-21 '24
Republic of Colombia and its economic possibilities. Econ W n s 29:623 My 2 '25

COLON-aerogenes
Colon-aerogenes differentiation at Cincinnati. C. Bahlman and H: Sohn. bibliog Am Water Works Assn J 11:416-33 Mr '24

COLONIAL architecture. See Architecture, Colonial

COLONIES
See Agricultural colonies; France—Colonies

COLONIZATION, Agricultural. See Agricultural colonization

COLOPHONY. See Rosin

COLOR
Chemistry and colour. Soc Dyers & Col J 41: 290 Ag '25
Color. G. W. Thompson. diags Am Soc T M Pro 23 pt 2:396-415 '23
Colour and chemical constitution. V. E. Yarsley. Chem Age (Lond) 9:598-9 D 1 '23
Color and constitution. M. L. Crossley and P. V. Resenvelt. Ind & Eng Chem 16:271-3 Mr '24
Colour and methods of colour reproduction. L. C. Martin and W: Gamble. 187p Van Nostrand '23

COLOR—*Continued*
Colour and molecular geometry. J. Moir. diags Chem Soc J 125:1134-41, 1548-51 My, Ag '24
Colour and molecular geometry; a graphical presentation of the theory. J. Moir. Chem Soc J 127:967-72 My '25
Color in a zinc silicate glaze. H. M. Kraner. il Am Cer Soc J 7:868-77 D '24
Color in nature. Sci Am 130:390 Je '24
Colour in nature. R. Furness. Soc Chem Ind J (Chem & Ind) 42:1126-31 N 23 '23
Color in relation to dyeing. J. M. Matthews. diags Color Tr J 10:183-8, 229-35; 11:47-50, 187-91; 12:12-15, 47-9, 151-4, 237-9; 13:1-4, 80-3, 113-15, 153-6; 14:4-6, 173-6; 15:138-41 My-Je, Ag, N '22, Ja-F, Ap, Je-Jl, S-N '23, Ja, Je, N '24
Color in the operating room. P. J. Flagg. Arch Rec 57:450-3 My '25
Color—its origin and use. L. W. Bosart. Textile Col 46:790 D '24
Color measurement by the Ostwald method. I. Ginsberg. Textile World 65:2127+ Mr 29 '24
Colour of monocyclic substances calculated by assigning an absorption band to each possible tautomeric form. J. Moir. Chem Soc J 123:2792-2803 N '23
Coloration of the alkalai halides by X-rays. P. L. Bayley. Phys R 24:495-501 N '24
Colors due to thin films on metals. C. T. Heycock. J Fr Inst 200:49-50 Jl '25
Colours produced by the action of sulphuric acid upon some hydrazones. F: D. Chattaway, S. J: Ireland and A. J: Walker. Chem Soc J 127:1851-5 Ag '25
Colours, stains and dyes. J. Thorpe. Chem Age (Lond) 10:410-11 Ap 19 '24
Diagnostic value of color in polished sections. S. B. Talmage. il Econ Geol 20:168-80 Mr '25
Estimation of color value by the Ostwald system. I. Ginsberg. diags Textile Col 46: 289-93 My '24
Farbkunde. W: Ostwald. 313p S. Hirzel, Leipzig '23
Harmony and attraction of color. F. Birren. Inland Ptr 75:386-8 Je '25; Discussion. J: F. Earhart. 75:934-5 S '25
Influence of adsorption on the colour of sols and of precipitates. N. R. Dhar. J Phys Chem 29:1394-9 N '25
Iridescent colour and the structure producing it; abstract. L. Rayleigh. Soc Dyers & Col J 40:310 S '24
Knowledge of color. F. Birren. diag Inland Ptr 73:557-9 Jl '24
Language of color. F. Birren. Inland Ptr 74: 212-14 N '24
Machine for determining the psychology of color. Sci Am 130:103 F '24
Magic of color. S. Culin. Color Tr J 16:65-6 Mr '25; Same. Chemicals (Dyestuffs sec) 16:179-80 My 25 '25
Mixing of colors and paints. F. N. Vanderwalker. 292p Drake '24
New science of colors. W. Ostwald. Am Dyestuff Rep 13:609-12, 646-9 S 22-O 6 '24
Newton and the peacock. W. D. Bancroft. J Phys Chem 28:351-9 Ap '24
Power of color. F. Birren. Inland Ptr 74:52-4 O '24
Psychology and tradition of colour. H. Rhodes. 128p C. W. Daniel co., London '24
Psychology of color. M. L. Griffin. Am Dyestuff Rep 13:443-4 Je 30 '24
Radiating values of colors. T. W. Reynolds. Heat & Ven 20:41-2 N '23; Same. Gas Age 55:837-8 Je 13 '25
Relationship between colour and constitution in the nitrobenzaldehydehydrazones. F: D. Chattaway and G: R. Clemo. Chem Soc J 123:3041-62 D '23
Relationship of the modern dyer to the ancient colorist. M. D. C. Crawford. Am Dyestuff Rep 13:144-6 F 25 '24
Some colour problems. H. E. Armstrong. Soc Dyers & Col J 41:161-5 My '25
Study of color, with lessons and exercises and with eighty-six charts for coloring. M. Jacobs. 115p Van Nostrand '25
Temper colours. R. C. Gale. Soc Chem Ind J 43:349-52 D 12 '24
Temper colors. C. W. Mason. J Phys Chem 28:1233-44 D '24
Theory of color production. J. Stieglitz. bibliog J Fr Inst 200:35-49 Jl '25
Two dancing electrons the secret of color. Sci Am 132:413 Je '25

See also Bricks—Color; Coal-tar products; Colorimeters and colorimetry; Colorimetric analysis; Coloring matter; Colors; Concrete—Coloring; Dyes and dyeing; Glass, Colored; Indigo; Light; Light, Colored; Ocean—Color; Paint; Pigments; Shoes—Color; Trade marks—Color; *also* headings beginning Color

COLOR blindness
Colour-blindness. M. Collins. 237p Harcourt '25

COLOR card association, Textile. See Textile color card association

COLOR in advertising
Is there a seasonal appeal for color? Ptr Ink 131:116+ Je 25 '25
Little things which influence efficiency of label, car-card and poster carrying power. Ptr Ink 126:41-2+ Mr 20 '24
New methods of making a second color pay dividends. Ptr Ink 128:25-6+ S 18 '24
Ridiculous remarks about the pulling power of color. Ptr Ink 131:20 My 7 '25
Two-color tricks that produce novelty effects. Ptr Ink 129:69-70+ D 4 '24
Using color with an eye to the public's own color sense. Ptr Ink 128:33-4+ Jl 3 '24
When it pays to use a second color. D: H. Colcord. Sales Management 7:1657-8 O '24
Why and wherefore of inserts in business-paper advertising. Ptr Ink 126:81-2+ Ja 3 '24

COLOR in architecture
Color in its relation to architecture. A. A. Kelly. Bldg Age 46:96+ S '24
Line or color in architecture. Am Arch 125: sup18+ Je 18 '24
Observations on the use of color in the decoration of interiors. E. Jonson. il Am Arch 127:275-6 Mr 25 '25
Portland cement stucco. S: Warren. il Am Arch 126:365-72 O 22 '24

See also Bricks—Color; Terra cotta

COLOR in industry
Importance of color in business. M. N. Conklin. Color Tr J 15:73-4 S '24
Rubber colors as trade-marks. W. Fawcett. Rubber Age 15:173-4 Je 10 '24
Touch of color that makes the product stand out. A. C. Belden. Ptr Ink M 9:37-8+ Jl '24

COLOR in office management
Color in an office. E. Boykin. Credit M 7:9+ Je '25

COLOR in the textile industries
Application of color to wool textiles. Color Tr J 16:118-22 Ap '25
Centralization of quality-color activities of an entire textile business. H. S. Busby. diags plans Am Dyestuff Rep 13:385-92; Bibliography. 392 Je 16 '24
Color in knitted goods. Textile World 65: 2001+ Mr 22 '24
Color seasons have their reasons. H. H. Adler. Textile World 65:1854+ Mr 15 '24
Handling colored yarn and remnant stocks. H. S. Busby. Textile World 65:2337+ Ap 5 '24
How the increasing demand for art in textiles affects color-process departments. H. S. Busby. il chart diag Am Dyestuff Rep 13: 453-9 Jl 14 '24
Importance of color in textile sales. H. S. Busby. Textile World 66:2007-8 O 11 '24
Seeing colors by geometry. W. C. Durfee. Am Dyestuff Rep 14:1-2 Ja 12 '25

See also Calico printing; Dyes and dyeing; Textile printing

COLOR lighting. See Light, Colored

COLOR matching
Color matching. D. Buzwee. Textile Col 46: 576-7 S '24

COLOR matching—*Continued*
Color matching in worsted trade. Textile World 67:3729+ Je 6 '25
Dyeing silk to a match. W. R. McKennon. Textile Col 47:238 Ap '25
Künstliche lichtquellen mit tageslichtfärbung. C. Samson. il diag Elektrotech Zeit 46:450-2 Mr 26 '25
Seeing colors through a Nicol prism. W. C. Durfee. Am Dyestuff Rep 13:575-7 S 8 '24; Discussion. H. S. Busby. 13:792-4 D 1 '24

COLOR organ
Decorative and theatrical lighting. C. Bragdon. Illum Eng Soc 19:888-901 N '24

COLOR photography
Bringing color photography down to the layman. il Sci Am 131:33 Jl '24
Byepaths of colour photography. O. Reg. 116p Dutton '23
Color photograph comes into its own. Ptr Ink 132:33-4 S 3 '25
Colour photography. E. Senior. Soc Dyers & Col J 41:250-1 Jl '25
Procédé de photographie instantanée des couleurs. G. A. Rousseau. Génie Civil 87: 114 Ag 1 '25

See also Moving pictures, Colored

Bibliography

Color photography. W: B. Gamble. N Y Pub Lib Bul 28:475-98, 557-77, 611-56, 688-719 Je-S '24

COLOR printing
Beauty of color printing. F. Birren. Inland Ptr 74:742-4 F '25
Color lithography with one negative. E. Bassist. Inland Ptr 75:259 My '25
Color work—and color work. J. H. McFarland. Ptd Salesmanship 45:464-6 Jl '25
McKee color press. R. F. Salade. Inland Ptr 74:533-4 Ja '25
Practical hints on color printing. R. F. Salade. Color Tr J 14:1-3 Ja '24
Retouching for offset lithography in colors. E. Bassist. Inland Ptr 74:756, 907-8; 75:91-2 F-Ap '25
Some practical hints on presswork. E. St John. Inland Ptr 72:804-5, 951-2 F-Mr '24
Specimens of offset printing in color. il Ptg Art 44:268a-b N '24

See also Calico printing; Color in advertising

COLOR sense
Introduction to the study of colour vision. J: H. Parsons. 2d ed. 323p Macmillan '24
Recognition of blue. W. D. Bancroft. J Phys Chem 28:131-44 F '24

See also Color blindness

COLORADO
How to see Colorado from Boulder. il Eng Educ 14:440-9 Ap '24

See also Carnotite; Coal—Colorado; Coal mines and mining—Colorado; Floods—Colorado; Gas, Natural—Colorado; Geology—Colorado; Gold mines and mining—Colorado; Labor laws and legislation—Colorado; Mines and mineral resources—Colorado; Motor bus lines—Colorado; Oil shales—Colorado; Petroleum—Colorado; Petroleum industry and trade—Colorado; Railroads—Colorado; Roads—Colorado; Silver mines and mining—Colorado; Wages—Colorado; Water power—Colorado

Boundaries

State boundary dispute. (New Mexico v. Colorado). W: B. Douglass. Prof Eng 10: 28 My; 29 Je '25

COLORADO & Southern railway
Annual report, 25th, 1923. Ry Age 76:1793 Je 21 '24; Comm & Fin Chr 118:2698 My 31 '24
Annual report, 26th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2807-8 My 30 '25; Ry Age 78:1305 My 23 '25
Colorado & Southern handicapped by floods. map Ry Age 76:1773-5 Je 21 '24
Colorado & Southern railway securities. Moody's Inv Serv 16:208 My 22 '24

COLORADO fuel and iron company
Joint representation Colorado fuel and iron company. A. H. Lichty. Min Cong J 11: 262-4 Je '25

COLORADO river
L'aménagement du fleuve Colorado (E.-U.). diag map Génie Civil 86:212-13 F 28 '25
American society of civil engineers discuss Colorado river problems. J Elec 53:32 Jl 1 '24
Arizona's viewpoint on the Colorado river. G: W. P. Hunt. J Elec 55:199-201 S 15 '25; Excerpts. Eng N 95:398 S 3 '25
Board reports on Boulder Canyon dam. Eng N 92:545 Mr 27 '24
Boulder Canyon dam opposed and defended. Eng N 92:618 Ap 10 '24
Bringing the Colorado river to San Diego. B. F. Randel. map Prof Eng 9:7-9 D '24
Colorado river—a brief summary of data. maps plan Eng N 94:57-63 Ja 8 '25
Colorado river development. C. C. Tillotson. il map Prof Eng 9:6-9 F '24
Colorado river dispute. Elec W 86:712 O 3 '25
Colorado river problem. W: Kelly. maps Am Soc C E Pro 50:795-836, pl 5 Ag '24; Abstract. Elec W 83:640-1 Mr 29 '24; Discussion. Am Soc C E Pro 50:1436-99; 51:262-88 N '24, F '25
Colorado river problem again live issue. Eng N 92:298 F 14 '24
Development of Colorado river basin. il Min Cong J 10:224-5 My '24
Federal action may be taken on Colorado river projects. J Elec 53:418 D 1 '24
Federal control of Boulder dam power and water favored. J Elec 54:110 F 1 '25
Federal power board on Boulder dam. Elec W 83:636 Mr 29 '24
Governor of Arizona states his stand on Colorado river. Elec W 82:1322 D 29 '23
Hearing on Boulder Canyon dam at Los Angeles. Eng N 95:767+ N 5 '25
How Arizona feels about development of the Colorado river. G: W. P. Hunt. J Elec 52:9 Ja 1 '24
How the Colorado river will serve agriculture and industry in 7 states. il Dun's Int R 44:49-50 N '24
Hunt re-election enlivens Colorado river problem. Eng N 93:805 N 13 '24
Leading a river across the desert. E: C. Crossman. il Sci Am 132:92-3 F '25
Legislatures discuss approval of Colorado river pact. J Elec 54:259 Ap 1 '25
Mexico and the Colorado river problem. Power 61:359 Mr 3 '25
Municipal preference in Boulder Canyon opposed. Eng N 92:503 Mr 20 '24
Power must bear burden of development on Colorado river. F. G. Baum. il map J Elec 51:202-5 S 15 '23; Discussion. J. G. Scrugham. 51:325 N 1 '23
Problem of the Colorado river. W: F. Durand. il maps Mech Eng 47:79-84 F '25
Reclamation engineers for Boulder Canyon. Eng N 92:618-19 Ap 10 '24
River pact thought dead. Elec W 84:1119 N 22 '24
Success of Boulder Canyon legislation doubtful. J Elec 52:296 Ap 15 '24
Suggests Black or Mojave Canyon dam to control Colorado. R. H. Ballard. J Elec 52:256 Ap 1 '24
Water power and flood control of Colorado river below Green river, Utah. E. C. LaRue. diag U S Geol S Water-supply Pa 556:1-176, pl 1-79 '25

See also Grand Canyon of the Colorado

COLORADO river basin
Surface water supply of the United States, 1919-1920. N. C. Grover and others. U S Geol S Water-supply Pa 509:1-269, pl 1-2 '25

COLORADO SPRINGS, Colorado

Rapid transit

Economies in operation proposed for railway in Colorado Springs. maps Elec Ry J 65: 885-8 Je 6 '25

COLORADO. University

College of engineering

Sixty years of educational pioneering and development—University of Colorado and College of engineering. il Eng Educ 14: 514-27 My '24

COLORED glass. See Glass, Colored

COLORED light. See Light, Colored

COLORIMETERS and colorimetry

Chromograph. H. Logan. il Illum Eng Soc 20: 381-7; Discussion. 387-91 Ap '25

Color estimation and control. S. Jordan. il Chem Age 32:219-20 My '24

Color measurement. L. A. Jones. il diags Am Dyestuff Rep 13:121-31 F 25 '24

Colorimetry and photometry of daylight and incandescent illuminants by the method of rotary dispersion. I. C. Priest. Illum Eng Soc 18:861-4; Discussion. 864-8 N '23

Exact means to relative tabulation of various dye properties; the evolution and technique of properties-measurement. H. S. Busby. chart diags Textile Col 46:765-8 D '24

Method for the estimation of the color of oils. D. C. Cox. diag Am Soc T M Pro 23 pt 2: 416-19; Discussion. 420-2 '23

New science of colors. W. Ostwald. Am Dyestuff Rep 13:609-12, 646-9 S 22-O 6 '24

COLORIMETRIC analysis

Color tests for nitro derivatives of diphenylamine. T. L. Davis and A. A. Ashdown. Am Chem Soc J 46:1051-4 Ap '24

Colorimetric determination of carbohydrates in plants by the picric acid reduction method; the determination of starch and other reserve polysaccharides. W. Thomas. Am Chem Soc J 46:1670-5 Jl '24

Colorimetric determination of carbohydrates in plants by the picric acid reduction method; the estimation of reducing sugars and sucrose. W. Thomas and R. A. Dutcher. Am Chem Soc J 46:1662-9 Jl '24

Colorimetric determination of platinum by potassium iodide. E. G. R. Ardagh, F. S. Seaborne and N. S. Grant. diags Can Chem & Met 8:117-20, 140-2 My-Je '24

Colorimetric dissociation constants of the mono- and di-nitroquinols. E. B. R. Prideaux and G. R. Nunn. Chem Soc J 125: 2110-16 O '24

Colorimetric estimation of small amounts of oxygen. P. G; T. Hand. diags Chem Soc J 123:2573-6 O '23

Determination of aniline in aqueous solutions. C. M. Carson. Ind & Eng Chem 17:62-3 Ja '25

Determination of nitrate nitrogen; a colorimetric method. F. M. Scales and A. P. Harrison. Ind & Eng Chem 16:571-2 Je '24

Mitchell's colorimetric method in the estimation of catechol tannins; abstract. P. H. Price. Soc Dyers & Col J 40:384-5 N '24

Permanent standards as a possible source of error in iron determinations. E: S. Hopkins. Ind & Eng Chem 17:832 Ag '25

Qualitative color test for the Grignard reagent. H: Gilman and F. Schulze. Am Chem Soc J 47:2002-5 Jl '25

Readjustment of present orthotolidin standards for chlorine. H: F. Muer and F. E. Hale. Am Water Works Assn J 13:50-69 Ja '25

Salt error of cresol red. W: D. Ramage and R. C. Miller. Am Chem Soc J 47:1230-5 My '25

Soluble aluminium and the hematoxylin test in filtered waters. W: D. Hatfield. Ind & Eng Chem 16:233-4 Mr '24

Total alumina in water (modified Atack's method) colorimetric determination. F. O. Baldwin. Am Water Works Assn J 12:439-40 D '24

See also Baudouins test

COLORING matter

Coloring matter of lime juice. F. Hardy and F. H. S. Warneford. Ind & Eng Chem 17: 48-50 Ja '25

See also Dyes and dyeing; Pigments

COLORING of fruit

Use of ethylene in the coloring of citrus fruit. E. M. Chace and F. E. Denny. Ind & Eng Chem 16:339-40 Ap '24

COLORS

Colour index. F. M. Rowe, ed. 371p Society of dyers and colourists, Bradford, England; Van Nostrand '24

Identification of piping systems by colors; abstracts of A.S.M.E. subcommittee report. diags Chem Age 32:48-50 Ja '24; Power 59: 111-12 Ja 15 '24; Heat & Ven 21:87 F '24; Power Pl Eng 28:190-1 F 1 '24; Management & Adm 7:297-8 Mr '24

See also Color; Pigments; *also* names of colors, e.g. Black, Blue, Brown, Gray, Green, Methylene blue, Prussian blue; Red; Yellow

COLUMBIA, South Carolina

Columbia; the "city—unlimited." J. Wooten. il Manuf Rec 87:99-106 Je 4 '25

Rapid transit

Buses for Columbia; railway prepared to suspend on Dec. 1. Elec Ry J 66:842 N 7 '25

COLUMBIA gas and electric company

Annual report for 1923. Comm & Fin Chr 118: 1026-30 Mr 1 '24

Annual report for year ended Dec. 31, 1924. Comm & Fin Chr 120:1472-8 Mr 21 '25; Excerpts. Economist 100:941-3 My 9 '25

COLUMBIA river

Columbia Basin project to cost two hundred millions. Eng N 94:400 Mr 5 '25

Columbia dam discussed. Elec W 83:1102 My 24 '24

Columbia river has large power possibilities. Power 62:269 Ag 18 '25

Declare fishing rights have priority over power. J Elec 52:466 Je 1 '24

Government estimates Columbia river water power. Power Pl Eng 29:1062 O 15 '25

Report on Columbia river as a waterway issued by Portland club. J Elec 55:67 Jl 15 '25

Report to the Federal power commission on the uses of the upper Columbia river. rev. ed. 126p U S Federal power commission, Washington '25

COLUMBIA university

Johnson Hall, Columbia university, New York city. Arch & Bldg 57:35-6, pl 87-8 Ap '25

Professional school of engineering. C: Wadsworth. il Chem & Met Eng 32:316-19 F 23 '25

College of physicians and surgeons

New York's great medical center. M. Wilcox. il plans Arch Rec 58:101-15 Ag '25

COLUMBIA yellow. See Chloramine yellow

COLUMBIAN carbon company

Annual report, March 15, 1924. Comm & Fin Chr 118:1424-5 Mr 22 '24

Annual report, March 15, 1925. Comm & Fin Chr 120:1486-7 Mr 21 '25

COLUMBIUM oxide

Visible radiation from columbium oxide. E. L. Nichols. Phys R 25:376-85 Mr '25

COLUMBUS, Georgia

Columbus—the South's oldest industrial city. A. T. Roberts. il Comm & Fin 14:1875-7+ S 23 '25

Columbus; typical of South's industrial progress prior to 1860 and of the widespread progress of the present. A. T. Roberts. il Manuf Rec 88:83-90 Jl 30 '25

COLUMBUS, Ohio

Rapid transit

Financial readjustment planned at Columbus, Ohio. Elec Ry J 65:42-3 Ja 3 '25

Franchise in Columbus. Elec Ry J 63:479 Mr 22 '24

Increase in Columbus surplus. Elec Ry J 63:311 F 23 '24

COLUMBUS, Ohio—Rapid transit—*Continued*
Supreme court rules Philadelphia banks must give Columbus railway $1,136,310. Elec Ry J 62:835-6 N 10 '23

Sanitary affairs
Columbus sewage disposal. Pub Works 56:359 O '25

Water supply
Columbus waterworks notes. Pub Works 56: 249 Jl '25

COLUMN footings
Determining end widths of trapezoidal combination footings. A. E. Cooper. diag Eng N 93:967 D 11 '24
Some remarks on column footings. D: C. Coyle. Eng N 92:1108-9 Je 26 '24

COLUMN footings, Concrete
Footings and retaining walls, covering parts H and I, chapter XI of the Joint committee report. B. A. Rich. Boston Soc C E J 12:84-7 F '25

COLUMNS
Detail design of large bridge columns. C. L. Christensen. Eng N 95:546-8 O 1 '25
Forgotten architectural motif; the Morlaix column. A. Embury. il diags plans Arch Rec 55:293-302 Mr '24
See also Architecture; Poles; Strains and stresses

Testing
Study fire risks from sample fires. J. F. Springer. il Sci Am 130:388+ Je '24
See also Columns, Steel—Testing

COLUMNS, Concrete
Beams and columns, covering parts A, B, C and G, chapter XI of the Joint committee report. C: E. Nichols. Boston Soc C E J 12:66-71 F '25
Chart aids estimate and design of spiral concrete columns. J. Feld. Eng N 92:1109 Je 26 '24
Column forms. L. H. Usilton. Am Concrete Inst Pro 21:91-4 '25; Same. Concrete 25: 125-7 Ap '25
Concrete posts 25 feet long support reservoir roof. il diags Eng N 92:812-13 My 8 '24
Criticism of the joint committee concrete column formulas. J. Feld. Eng N 95:477-8 S 17 '25
Effect upon cost and size; using more cement in reinforced concrete columns. J. T. Thompson. Concrete 25:180-1 N '24
Fire resistance of concrete columns. W. A. Hull and S. H. Ingberg. il diags U S Bur Stand Tech Pa 272:635-708 '25; Summary. Am Arch 127:559-60 Je 17 '25; Same. Can Eng 49:213-15 Ag 11 '25
Forms for reinforcing concrete building construction. J. A. Turner. diags Am Concrete Inst Pro 21:85-90 '25; Same. Concrete 26:124-5 Ap '25
Increase in strength of short concrete columns due to helical reinforcement. W. D. Womersley. Eng & Contr (Bldgs) 61:1381-2 Je 25 '24
New method for supporting building columns. G. E. Goodall. il Eng N 94:145-6 Ja 22 '25; Discussion. R. L. Bertin. 94:368 F 26 '25
Prompt column repair prevents building collapses. il Eng N 93:950-2 D 11 '24
Study of bending moments in columns. F. E. Richart. Am Concrete Inst Pro 20:495-517; Discussion. 518-22 '24
Use of composite columns in concrete buildings. J. W. Parker. diags Arch Forum 41:77-80 Ag '24
Volumes of concrete column bells. R. L. Hawkins. chart Eng N 93:964 D 11 '24
See also Poles, Concrete

COLUMNS, Steel
Measurement of stresses in four steel columns of the Equitable building, Des Moines, Iowa. A. H. Fuller. Iowa State College of Agric and Mechanic Arts Eng Exp Sta Bul 72:1-28 '24; Abstract. Eng N 93:540-2 O 2 '24

Testing
Spot-welded girders and columns tested for strength. L. B. Tuckerman. diags Eng N 92:982-3 Je 5 '24
Steel columns again. Eng N 93:940-1 D 11 '24
Tangent modulus and the strength of steel columns in tests. O. H. Basquin. diags U S Bur Stand Tech Pa 263:381-442 '24

COMBINATION packages. See Package goods

COMBINATIONS, Industrial
Financial control of raw materials by producers. W: S. Culbertson. Ann Am Acad 112:75-87 Mr '24
Vertical trust. D. T. Farnham. il maps Ind Management 67:257-63 My '24

COMBS

Advertising
This business was different too. Ptr Ink 132: 33-4 S 17 '25

COMBUSTION
Air required for combustion of gas. P. Hetzler. diag Am Gas J 123:46+ Jl 18 '25
Air through slots in fire box door does not always help combustion. Sanitary & Heat Eng 103:106-7+ F 20 '25
Argument for air admission above the fuel bed as the solution of the combustion problem. W. S. Timmis. il Heat & Ven 21:83-4 Jl '24
Automatic combustion control. Power Pl Eng 28:554-5 My 15 '24
Automatic combustion control. S. C. Martin. Power Pl Eng 29:182-3 F 1 '25
Automatic combustion control. C: H. Smoot. Textile World 66:649+ Ag 2 '24
Automatic electric combustion control equipment. il diag Power 59:579-80 Ap 8 '24
Balancing combustible in ash against excess air. G: E. Gaster. Power 61:724-5 My 12 '25
Boiler-room practice; furnace efficiency, excess air, and the critical point of combustion. J: Bruce. Elec R (Lond) 94:736-8, 809-11; 95:964-6; 96:31-2, 71-2, 111-12, 149-50 My 9-16, D 26 '24-Ja 23 '25
Calculations of the combustion of coke oven gas. F: M. Washburn. Blast F & Steel Pl 13:200-2 My '25
CO_2 with coal, oil and gas. Power 60:30 Jl 1 '24
Chemistry of combustion of pulverized coal. S. C. Martin. diag Power Pl Eng 29:1091-2 N 1 '25
Combustion; a reference book. 74p Industrial gas section of the American gas assn., New York '24
Combustion and fuel economy. W. P. Chandler. Blast F & Steel Pl 12:414+ S '24
Combustion control. T. A. Peebles. Mech Eng 47:193-4; Discussion. 194-6 Mr '25; Same cond. Power 61:314-15 F 24 '25
Combustion control at the Hudson Avenue station. W. C. Holmes. il charts diag Elec W 86:628-32 S 26 '25
Combustion in kilns burning refractory ware. R. A. Sherman. diags Am Cer Soc J 7:175-88 Mr '24
Combustion in the gas producer and the blast furnace. A. Korevaar. 189p Van Nostrand '24
Combustion in the power plant. T: A. Marsh. 255p Van Nostrand '24
Combustion of carbon. H. F. Smith and others. il Ind & Eng Chem 17:694-5, 804-5, 930-1 Jl-S '25
Combustion of coke in one stage. G. Weyman. Soc Chem Ind J 44:47-50, 51-60 [bibliog. p 60] Ja 30-F 6 '25
Combustion of petroleum hydrocarbons. C. F. Mabery. diag Ind & Eng Chem 16:911-12 S '24
Combustion processes in the oil engine. H. F. Shepherd. Power 62:411-12 S 15 '25
Combustion rates and efficiencies. D. C. Hess. Elec W 82:1224 D 15 '23
Combustion tests. diag Dom Eng 111:26+ Ap 25 '25

COMBUSTION—*Continued*
La combustion vive, détonante et non détonante, des milieux gazeux. F. Schwers. Chimie & Ind 12:983-92; 13:14-23 D '24-Ja '25
Conditions affecting the use of preheated air. Power Pl Eng 29:734-5 Jl 15 '25; Discussion. 29:861 Ag 15 '25
Considérations sur le bilan thermique. A. Linguet. Chimie & Ind 10:829-35 N '23; Same (Discussion of the heat balance in boiler tests). Paper Tr J 78:49-53 Ja 31 '24
Consumers' economies. O. P. Hood. Power 59:215-16 F 5 '24
Controlling combustion by temperature. G. Simmons. il diag Power Pl Eng 28:906-8 S 1 '24
Dewpoint temperature of gases from combustion. J. N. Waite. Elec R (Lond) 94:954-6, 994-6 Je 13-20 '24
Electrical system of combustion control for boiler plants. diags Power 59:46-8 Ja 8 '24
Energy in coal. Power 59:542 Ap 1 '24
Erzielung hoher wirtschaftlichkeit von feuerungen. K. Huffelmann. Stahl & Eisen 44: 1488-91 N 20 '24
Evaporative capacity of locomotive boilers. A. P. Poperev. charts Ry Mech Eng 99:487-92, 548-54 Ag-S '25; Discussion. W. F. Kiesel, jr. 99:606 O '25
Excess air and the extra cost of fuel; chart. W. F. Schaphorst. Eng & Min J 119:169-70 Ja 24 '25
Factors in the choice of a combustion system. E. B. Ricketts. Power Pl Eng 27:1194-6 D 1 '23
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 119:457-61, 545-7+ O 20, N 17 '23
Gaseous combustion at high pressures. W. A. Bone, D. M. Newitt and D. T. A. Townend. Gas J (Lond) 166:600-3, 747-50, 848-50 My 28, Je 11-18 '24
Graphical chart for determining excess air in the combustion of producer gas. G. M. Peltz. Am Cer Soc J 7:437-41; Discussion. 441-3 Je '24
Heat value of air. Power 59:1044 Je 24 '24
Heatless combustion. Engineer 140:352, 400-1, 428-9, 470 O 2, 16-30 '25
How much air? Dom Eng 110:35+ Mr 28 '25
L'influence des pulsations et vibrations sur la combustion. Génie Civil 87:22 Jl 4 '25
Influence of pulsations on combustion. J. Deschamps. diags Engineer 139:152-3 F 6 '25; Abstract. Mech Eng 47:290-1 Ap '25
Investigation of the maximum temperatures and pressures attainable in the combustion of gaseous and liquid fuels. G. A. Goodenough and G: T. Felbeck. Ill U Eng Exp Sta Bul 139:11-158 '24
La loi de la compression de la chaleur et l'économie de combustible dans les hauts fourneaux. A. Korevaar. diags Chimie & Ind 11:642-50 Ap '24
Mechanism of the combustion of hydrocarbons. W. E. Garner. Soc Chem Ind J (Chem & Ind) 42:1080-1 N 9 '23
More heat from the pound of coal; adapting the carbureter and Bunsen burner principles of air control to the furnace. W. S. Timmis. il Sci Am 131:26 Jl '24
Philadelphia A.S.M.E. discusses automatic combustion control. Power 60:920 D 2 '24
Picturing combustion. diags Power 60:432-3 S 9 '24
Power plant management. R. June. Blast F & Steel Pl 11:546-50 O '23; Same. Gas Age 52: 439-42 O 13 '23; Same. Textile World 64:2867-8+ N 10 '23
Promoting action of palladium on copper; catalytic combustion. W: W. Hurst and E. K. Rideal. Chem Soc J 125:685-94 Mr '24
Die reaktionsfähigkeit (verbrennlichkeit) von koks. H. Bähr. diags Stahl & Eisen 44:1-9, 39-42 Ja 3-10 '24; Discussion. 44:42-8, 691-7 Ja 10, Je 12 '24
Report of the committee on combustion. H. O. Loebell. Am Gas Assn Industrial Gas sec v 5:748-51; Discussion. 751-4 '23
Simplified method of micro-combustion; the micro-Dennstedt method. C. Funk and S. Kon. Chem Soc J 127:1754-5 Jl '25
Solution of a combustion problem. diag Power 60:740 N 4 '24
Some aspects of oxygen enrichment of combustion air in heating-furnace practice. W. C. Buell, jr. Eng Soc W Pa 41:133-43; Discussion. 144-55 My '25
Some combustion problems in glass making. C. D. Smith. diags Am Cer Soc J 7:603-13 Ag '24
Some experiments on gas explosions in closed tubes, with particular reference to pinking. J. D. Morgan. il Automotive Eng 15:27-31 Ja '25
Spectroscopic study of the combustion of phosphorus trioxide and of hydrogen phosphide. H. J. Emeléus. diag Chem Soc J 127: 1362-8 Je '25
Thermal and chemical balance-sheets. M. W. Travers. Gas J (Lond) 167:583-5 Ag 13 '24
Untersuchungen zur ermittlung des zur richtigen verbrennung erforderlichen querschnittsverhältnisses von luft- und gaseinströmung in den winderhitzer. R. Kahlenberg. Stahl & Eisen 45:1743-6 O 15 '25
Use of combustion control devices increases. R. J. S. Pigott. il Power Pl Eng 28:1199-1203 D 1 '24
Die verbrennungsrechnung. A. B. Helbig. Zeit Ver Deutsch Ing 69:1323-4 O 17 '25
Der verbrennungsvorgang in der kohlenstaubfeuerung. W. Nusselt. Zeit Ver Deutsch Ing 68:124-8 F 9 '24
What goes up the stack? Power 59:228 F 5 '24
What happens to moisture when it enters the furnace? Power 58:468-9, 700-1, 743, 1001 S 18, O 30-N 6, D 18 '23
What happens when fuel burns. S: S. Wyer. Heat & Ven 21:72 O '24
Why the same excess air gives less CO_2 with oil. Power 61:746 My 12 '25

See also Boilers—Firing; Carbon dioxide recorders; Draft; Firing; Flame propagation; Flames; Flash point; Fuel; Gas burners; Ignition; Inflammable mixtures; Mechanical draft; Oxyacetylene flame; Smoke prevention; Spontaneous combustion

COMBUSTION, Heat of
Calorific value and constitution. M: F. Barker. J Phys Chem 29:1345-63 N '25
Electronic conception of valence and heats of combustion of organic compounds. M. S. Kharasch and B. Sher. J Phys Chem 29: 625-58 Je '25
Investigation of the maximum temperatures and pressures attainable in the combustion of gaseous and liquid fuels. G. A. Goodenough and G: T. Felbeck. Ill U Eng Exp Sta Bul 139:107-19 '24

COMBUSTION, Surface
La combustion superficielle. Bone. Chimie & Ind 11:279-80 F '24
Electrification of gases by surface combustion. J. Dickinson. bibliog diags Philos Mag 6th ser 50:225-41 Jl '25

COMES, John T.
Work of John T. Comes. C: D. Maginnis. il Arch Rec 55:93-101 Ja '24

COMETS
On a diffusion theory of comets. H. Mache. Philos Mag 6th ser 47:724-35 Ap '24
Three newly discovered comets. H: N. Russell. il Sci Am 133:29 Jl '25

COMMA. See Punctuation

COMMEMORATIVE postage stamps. See Postage stamps, Commemorative

COMMERCE
Ce qu'il faut savoir pour exporter. E. Horsin-Déon. 221p Dunod, Paris '24
Commercial history and review of 1924. Economist 100:sup3-77 F 14 '25
Cross currents in international business. J. H. Ardrey. Comm M 7:3-13 O '25
Essentials of international trade. S. Litman. 398p Wiley '23
Foreign trade and international stability. E. A. Walsh. Blast F & Steel Pl 13:320-1 Ag '25
Key to national prosperity. J. Nahoum. 381p Dutton '23

COMMERCE—*Continued*
Musings on a line of type. J. B. Arnold. Inland Ptr 73:385-7 Je '24
Principles of foreign trade. C. E. Griffin. 348p Macmillan '24
We are one people, a world of trade. A. P. Dennis. il Nation's Business 13:20-2 Ap '25
Wissenschaft und praxis des kaufmanns. R: Fuchs. 2v Bonness & Hachfeld, Potsdam and Leipzig '25
World recovery in foreign trade. J. A. Farrell. Econ W n s 30:616-17 O 31 '25

See also Accounting; Advertising; Aeronautics, Commercial; Balance of trade; Banks and banking; Bookkeeping; Business; Canals; Chambers of commerce; Commercial law; Commercial statistics; Communication and traffic; Competition; Competition, International; Contracts; Cooperation; Credit; Delivery of goods; Dumping (commercial policy); Economic conditions; Export trade; Finance; Foreign exchange; Free trade and protection; Geography, Commercial; Government regulation of industry; Harbors; Insurance, Marine; Interest; International chamber of commerce; International trade exhibition; Interstate commerce; Interstate commerce commission; Marketing; Mercantile agencies; Merchandizing; Money; Ports; Prices; Profit sharing; Railroads; River traffic; Salesmanship; Shipment of goods; Shipping; Statistics; Stock exchange; Stocks; Success; Tariff; Trade marks; Transportation; Trust companies; Trusts, Industrial; Warehouses; Waterways; Weights and measures; *also* subdivision Commerce under names of countries, e.g. Europe—Commerce; Germany—Commerce; Japan—Commerce; South America—Commerce; United States—Commerce

History

Growth of world trade from the Caravels to the Baltimore clippers. L. O. Welcome. il Dun's Int R 45:50-4 Ap '25
Medieval cities; their origins and the revival of trade. H. Pirenne. 249p [bibliog. p. 245-9] Princeton univ. press, Princeton, N.J. '25
Outline of world trade from the fall of Byzantium to Columbus. L. O. Welcome. il Dun's Int R 45:48-51 Mr '25
Sea routes of commerce. W. Macarthur. 114p Stratford co., Boston '25

Statistics

See Commercial statistics

Terminology

Trade term definitions, merchanting, shipping and marine insurance. C. Maughan. 187p E. Wilson, London '24

COMMERCIAL aircraft association, Akron, Ohio
Code of regulations drafted for permanent organization. Aviation 16:699-700 Je 30 '24

COMMERCIAL art. See Art, Commercial

COMMERCIAL associations
See Chambers of commerce; Trade associations

COMMERCIAL correspondence
Business letter-writer's manual. C: E. Buck. 232p Doran '24
Business letter-writing. R. Davis and C. H. Lingham. 317p Ginn '25
Business letters—how to write them. S. Perry. Am Mach 60:967-8 Je 26 '24
Business letters in the fashion of 1806. Nation's Business 13:62+ Ja '25
Character in its correspondence. F. S. Clark. Burroughs Clearing House 10:10-11+ O '25
Commerce and correspondence. E: H. Grout. 337p Pitman '24
Correspondence supervision for small concerns. W. Kean. Ptr Ink 131:140+ My 7 '25
Correspondence supervisor's place in the sun. T. H. B. Whipple. Ptr Ink 132:97-8+ S 24 '25
Cumulative benefits of letter writing instruction. W: F. Doolittle. Am Gas J 122:221-2+ Mr 14 '25
Curtailing correspondence in railroad offices. C. U. Stapleton. Ry Age 77:887-8 N 15 '24
Dealing with fair woman. C: R. Wiers. Sales Management 7:1343-4 Ag '24
Do you write letters that sell or just answer inquiries? D. D. Lukens. Sales Management 6:1069-70+ Je '24
Don't make your form letters too perfect. E. P. Corbett. Ptr Ink 128:49-50+ Jl 24 '24
Don't overdo form in business transactions. Ptr Ink 133:146+ O 29 '25
Four ideas for the man who writes letters. System 45:182 F '24
Handling foreign orders. A. J. Smith. Cassier's Ind Management 11:469-70 N '24
Heart spirit in letters. C: R. Wiers. il Sales Management 8:363-4+ Mr 7 '25
Hot-headed correspondent gets the cold shoulder. W. R. Heath. Ptr Ink 132:93-4+ S 17 '25
How to write business letters. J: A. Powell. 192p Univ. of Chicago press '25
How Westinghouse stimulates interest in better letters. A. Belden. Ptr Ink 126:81-3 F 7 '24
J. J. Sherlock's business-building letters. J. J. Sherlock, comp. 287p Press of the Hollywood citizen, Hollywood, Calif. '25
Letters that pull. System 45:466-7 Ap '24
Letters which help the bank. H: A. Burd. Am Bankers Assn J 18:183-5+ S '25
Letters with snap in them. E: F. Fane. Credit M 26:15-16 S '24
Lifting the quality of our every-day letters. S. Perry. System 45:498-500+ Ap '24
Making letters talk business. S. Perry. 184p Am. rolling mill co., Middletown, O. '24
Modern business English. A. C: Babenroth. 466p [bibliog. p. 461] Prentice-Hall '25
Nothing wrong with "Dear sir" and "Very truly yours." E. P. Corbett. Ptr Ink 132:70+ Ag 13 '25
Practical business English. W. L. Mason. 485p Putnam '25
Practical experience in modern business correspondence. H. N. Rasely. 96p Boston chamber of commerce, Boston '24
Principles of business accounting and business letters. E. E. Garrison. 272p Doubleday '25
Proper salutations in central Tibet and elsewhere. Ptr Ink 126:112+ Ja 24 '24
Railroad correspondence and its possibilities. G: E. Schneider. Ry Age 78:524 F 28 '25; Discussion. F. Snow. 78:780 Mr 21 '25
Reflections of a letter counsellor. S. R. Stauffer. Ptd Salesmanship 45:453-6 Jl '25
Saying no and making a friend with the same letter. H. M. Swetland. Sales Management 6:553-4 F '24
72 master letters and what made them pay. 160p Shaw '24
Should there be a master-censor of letters? W. H. Heath. Ptr Ink 128:53-4+ Ag 14 '24
Some pointers on writing to foreign correspondents. S. W. Dorman. Ptr Ink 126:112+ F 14 '24
That worst business letter. F. C. Kelley. Nation's Business 12:55+ Jl '24
There's plenty wrong with "Dear sir" and "Very truly yours." C: A. Emley. Ptr Ink 132:101-2 Ag 27 '25
To improve quality of company correspondence. A. Belden. Ptr Ink 127:137-8+ Ap 24 '24
Turn-downs as salesmen. C: R. Wiers. il Sales Management 6:1061-2+ Je '24
Useless stuff in letters. C: R. Wiers. Sales Management 8:597-8+, 695-6 Ap 18-My 2 '25
Waggish business letter and then a lawsuit. Ptr Ink 127:109-10 Ap 10 '24
Way to test form letters. B. W. Griffin. Ptr Ink 127:53-4 Je 5 '24
What kind of salutation for the form letter? Ptr Ink 131:128-9 My 21 '25
When they are bad they are horrid. A. E. Davis. Burroughs Clearing House 8:12-13+ Ag '24

COMMERCIAL correspondence—*Continued*
When to use "Dear Sir," "My dear Mr" or "Dear Mr". Ptr Ink 125:28 D 20 '23
When you are tempted to write a sizzling letter. C: R. Wiers. Sales Management 8: 229-30+ F 7 '25
Why our letters make a strong appeal. System 46:731-2 D '24
Writing the letter that may be loaded with dynamite; how sales managers answer complaints and inquiries. C. W. Hamilton. Sales Management 7:1717-18+ N '24
Your carbon copies at work for you. A. E. Davis. Burroughs Clearing House 9:20-1+ D '24

See also Collecting of accounts; English language—Business English; Follow-up systems; Letterheads; Mail order business; Mailing departments; Sales letters; Stenographers

Signatures

Who should sign letters—company or dictator? Ptr Ink 131:76 My 28 '25

Study and teaching

Giving the house a personality. W. H. Lough. Ind Management 67:16-18 Ja '24

COMMERCIAL correspondence, French
Manual of French commercial correspondence. G: R. MacDonald. 331p Pitman '24

COMMERCIAL credit company, Baltimore
Annual report, 12th, for 1923. Comm & Fin Chr 118:1426-7 Mr 22 '24; Excerpt. Bankers M 108:601 Ap '24

COMMERCIAL geography. See Geography, Commercial

COMMERCIAL law
A B C of exporting's legal side. B. Trueman. Ptr Ink M 11:65-6 Jl '25
Business law. A. W: Bays. rev. ed. 473p Macmillan '25
Cases on business law selected, with notes, and problems. L. J. Ayer. 463p Univ. of Washington book store, Seattle '25
Cases on commercial law. A. W: Bays. 2d ed 1536p Callaghan & co., Chicago '23
Commercial law for high schools, business colleges and business men. W. C. Townley. 2d ed. 283p Holt '23
Elements of business law. E. W. Huffcut. 2d ed., rev. 359p Ginn '25
Elements of commercial law. C: B. Cole. 384p Houghton '25
Essentials of commercial law. W. H. Whigam. 392p Doubleday '25
For exporters to Latin America; consular papers required and charges. M. Gonzalez. Am Ind 25:43 F '25
Law in everyday life. M. L. Hayward. Inland Ptr 75:901-2 S '25
Protesting drafts in Japan, Dutch East Indies, Samoa and Tahiti. U S Bur For & Dom Com Trade Information Bul 354:1-15 '25

See also Acceptances; Advertising—Laws and regulations; Agency (law); Arbitration; Banking law; Bankruptcy; Bills of lading; Checks; Contracts; Corporation law; Corporations; Debtor and creditor; Drafts; Foreign exchange; Government regulation of industry; Insurance law; Landlord and tenant; Maritime law; Partnership; Patent laws and legislation; Price fixing; Public utilities—Law; Railroad law; Sales; Suretyship and guaranty; Textile laws and regulations; Trusts, Industrial; Trusts and trustees; Warranty

History

Romance of the law merchant. W. A. Bewes. 148p Sweet and Maxwell, ltd., London '23

Study and teaching

American institute of accountants examination in commercial law, Nov. 16, 1923. J Account 37:384-94 My '24
American institute of accountants examination in commercial law, May 16, 1924. J Account 38:219-25 S '24
American institute of accountants' examination in commercial law, November 14, 1924 and May 15, 1925. J Account 40:145-53 Ag '25
C.P.A. law questions, taken from the examinations set by the Board of examiners of the American institute of accountants, June, 1917, to May, 1924, and answers by John Laurence Hurley. 118p Bentley pub. co., Boston '24

Argentina

Trading under the laws of Argentina. B. S. Van Rensselaer and A. J. Wolfe. U S Bur For & Dom Com Trade Information Bul 242: 1-37 '24

Brazil

Trading under the laws of Brazil. G. Everett. U S Bur For & Dom Com Trade Information Bul 296:1-71 '24

California

Business law for business men, state of California. A. J. Bledsoe. 11th ed., rev. 1172p A. J. Bledsoe, 356 S. Spring St., Los Angeles, Calif. '23
California business laws and forms, property rights, legal and commercial forms, reference tables, legal and commercial terms in common use. R. E. Ragland. 6th ed., rev. & enl. 112p A. V. Lake & co., Oakland, Calif. '23

Cuba

Trading under the laws of Cuba. U S Bur For & Dom Com Trade Information Bul 343: 1-70 '25

France

Le bordereau de coupons; conditions d'application prescrites par le décret du 16 septembre 1924. O. Lainé. Génie Civil 85:348-50 O 18 '24

Germany

Die neue kartellverordnung. E: Buchmann. Stahl & Eisen 43:1499-1501 D 6 '23
Ueber die aufwertung von geldforderungen. K. Dittmar. Stahl & Eisen 44:202-6 F 21 '24

Great Britain

Compendium of mercantile law. J: W: Smith. 12th ed. 956p Stevens & sons, ltd., London '24

Haiti

Financing shipments to Haiti. World's Markets 15:19-20 Mr '24

Latin America

Shipment of samples and advertising matter to Latin America and the West Indies. R. P. Wakefield. U S Bur For & Dom Com Trade Information Bul 250:1-54 '24

Pennsylvania

Pennsylvania business law. J: J. Sullivan. 8th ed., rev. 748p Business law pub. co., Philadelphia '23

Poland

New Polish law of negotiable instruments. M. B. Carroll. U S Bur For & Dom Com Trade Information Bul 347:1-26 '25

South Africa

Trading under the laws of the Union of South Africa. L. Blackwell. U S Bur For & Dom Com Trade Information Bul 190:1-32 '24

United States

Business law. H. W. Babb. 489p Ronald press '24
Congressional bills that would affect business. Ptr Ink 126:25-8 Ja 17 '24

COMMERCIAL libraries. See Business libraries

COMMERCIAL paper

See Acceptances; Bonds; Checks; Drafts; Letters of credit; Negotiable instruments

COMMERCIAL photography. See Photography, Commercial

COMMERCIAL policy
International commercial policies, with special reference to the United States. G: M. Fisk and P. S. Peirce. 322p Macmillan '23
Raw materials and foodstuffs in the commercial policies of nations. W: S. Culbertson. Ann Am Acad 112:1-145; Supplement. 147-298 Mr '24

See also Dumping (commercial policy); Free trade and protection; Open door policy; Tariff

COMMERCIAL products
National directory of commodity specifications. U S Bur Stand Misc Pub 65:1-379 '25

See also Chemicals; Farm produce; Geography, Commercial; Raw materials; Substitutes

Classification

International trade mark law and practice. B. G. Ravenscroft. 725p Trade mark law pub. co., New York '25

Statistics

Revised index of commodity stocks. Survey of Cur Business 30:29-33 F '24

COMMERCIAL statistics
Commercial history and review of 1923. Economist 98:301-72 F 16 '24
Estimate of the money value (in dollars) of world international trade in 1924. Econ W n s 29:446 Mr 28 '25
Foreign trade of principal countries. Published in monthly numbers of Federal reserve bulletin
Gauging the world's trade. B. Davenport. Am Bankers Assn J 17:455+ Ja '25
International trade in 1923. U S Bur For & Dom Com Trade Information Bul 298:1-37 '24
International trade in 1924. J. J. Kral. Econ W n s 29:832-3 Je 13 '25
International trade since the war. Economist 99:sup11-15 Ag 23 '24
State of trade at home and abroad. Published in Economist monthly supplement
Statistical story of 1923. Bradstreet's 52:30 Ja 12 '24
Statistical summary of commerce and industry: 1920-1923 compared with January-June, 1924. Survey of Cur Business 36:7-8 Ag '24
Total values of imports and exports of merchandise by grand divisions and principal countries. Manuf Rec 88:65 Ag 13 '25

See also subdivision Commerce under names of countries

COMMERCIAL treaties

See Germany—Commercial treaties; Great Britain—Commercial treaties

COMMINUTING apparatus

See Colloid mill; Crushing machinery; Premier mill; Pulverizers

COMMISSION merchants
Commission house up-to-date. L: R. Keeffe. diags Textile World 65:2955-6+ My 3 '24

Advertising

Commission merchants thinking of advertising. Ptr Ink 128:101-2 S 4 '24

COMMITTEES (in management)
Committees as aids to management. A. G. Peter. Ind Management 68:362-5 D '24
Factory management's challenge to general management. W. A. Layman. Factory 34: 747-50 My '25
What do executive committees execute? E. Dakin. Comm & Fin 13:655-6 Ap 2 '24
Why we have no "high hats" in our business. A. T. Downer. il System 47:761-4+ Je '25

COMMON brick manufacturers association
Annual meeting, Los Angeles, Cal., Feb. 10-17. Brick & Clay Rec 64:248-51, 332-9 F 19-Mr 4 '24
Annual convention, 7th, Chicago. Brick & Clay Rec 66:264-73 F 17 '25

COMMON law trusts. See Business trusts

COMMONWEALTH college, Mena, Arkansas
New experiment in education for workers. H. Coy. Monthly Labor R 20:1220-1 Je '25

COMMONWEALTH power corporation
Annual report, 1923. Comm & Fin Chr 119: 473-4 Jl 26 '24
Attractive stock investments. Moody's Inv Serv 17:47 F 5 '25
Commonwealth power corporation. Moody's Inv Serv 17:299 S 10 '25
Commonwealth power corporation's plan. P. W. Garrett. map Elec W 84:487+ S 6 '24
Review of history and financial condition. Moody's Inv Serv 17:181-4 My 28 '25

COMMONWEALTH steel company
How Commonwealth steel simplifies problems of management. C. H. Howard. il Ptr Ink M 11:35-6+ Ag '25

COMMUNICATION, Interplanetary
Astronomy makes its bow to radio in the study of Mars. D: M. Todl. il Wireless Age 12:30-1+ N '24

COMMUNICATION and traffic
Communications. W. T. Stephenson. 180p E. Benn, ltd., London; Van Nostrand, New York '24
Dominion of sea and air. E. S. Rankin. 339p Century co. '25
Effect of cable and radio control on news and commerce. W. L. Rodgers. Ann Am Acad 112:240-51 Mr '24
Press and communications of the Empire. J. S. Mills. (British Empire v. 6) 289p Holt '24
Some aspects of imperial communications. A. V. T. Wakely. 160p Sifton, Praed & co., ltd., London '24

See also Aeronautics; Aeronautics, Commercial; Canals; Commerce; Express service; Harbors; Postal service; Radio communication; Railroads; Rapid transit; Shipping; Street railroads; Telautograph; Telegraph; Telephone; Traffic regulations; Transportation; Waterways

COMMUNISM
When Plymouth tried communism. R. C. Willoughby. Nation's Business 12:31 Je '24

COMMUNITY advertising
Community advertising; how to advertise the community where you live. D. E. Mowry. 456p Cantwell press, Madison, Wis. '24
How to raise the money for community advertising. J: A. Murphy. Ptr Ink 127:105-6+ My 15 '24
Leaves from a community advertiser's experience book. W: C. Garner. Ptr Ink 132:77-8+ Jl 23 '25
Puget Sound will tell it to California. W. Brindley. Ptr Ink 126:26 F 7 '24

See also Municipal advertising; State advertising

COMMUNITY centers
Community house, Waverly, Pa.; views and plans. Am Arch 126:pl 202-7 D 17 '24
Complete community house; the Kingsley house, Pittsburgh. il plans Bldg Age 46:59-61 O '24
Functions and plan—types of community buildings. D. H. Perkins and H. Taylor. plans Arch Rec 56:289-304 O '24
Health program for settlement and community center. J. A. Goldberg. Nation's Health 7:243-5+ Ap '25
Rural planning; the social aspects of recreation places. W. C. Nason. U S Agric Farmers' Bul 1388:1-30 '24
Y.M.C.A. community building and fire station, Westport, Conn. il plans Am Arch 126:142, pl 49-52 Ag 13 '24

See also Parish houses; Recreation centers

COMMUNITY chests
Financial operations of community chests in American cities. J. R. Douglas. 145p Security trust & savings bank, Los Angeles '23

Bibliography

Community chests. rev ed. 4p Russell Sage foundation library, New York '25

COMMUNITY trusts
Community trust. R. Hayes. Comm & Fin Chr 120:1841-2 Ap 11 '25

COMMUNITY trusts—*Continued*
Community trust idea. N. D. Baker. Am Bankers Assn J 16:444+ Ja '24
Completion of first calendar year by New York community trust. Comm & Fin Chr 120:50 Ja 3 '25
Conference on community trusts at the A. B. A. convention. Comm & Fin Chr 121:161-7 sec 2 O 17 '25; Am Bankers Assn J 18:224 O '25; Bankers M 111:545-9 O '25
Growth of community trust movement. Comm & Fin Chr 117:2050 N 10 '23
Life insurance and the community trust. R. Hayes. Econ W n s 27:743-4 My 24 '24
The man who dreamed about money. E: M. Thierry. Forbes 13:691-2+ Mr 15 '24
New York state board of charities urges use of plan of New York community trust in administration of charitable funds. Comm & Fin Chr 120:1049 F 28 '25
Perpetuating the usefulness of bequests. R. Hayes. Am Bankers Assn J 16:565 Mr '24
Reshaping philanthropic habits. R. Hayes. Am Bankers Assn J 18:243-4 O '25; Same. Comm & Fin Chr 121:164-6 sec 2 O 17 '25
Rise of the community trust. R. Hayes. Bankers M 108:526 Ap '24

COMMUTATION (electricity)
Ein neuer weg zum ausbau der kommutierungs-theorie; abstract. Dreyfus. Elektrotech Zeit 45:80 Ja 31 '24

COMMUTATORS
Brush angle and direction of commutator relation. W. C. Kalb. diags Power 60:973-5 D 16 '24; Discussion. 61:387 Mr 10 '25
Bürstenspannung und stromdichte unter der kohle bei der kommutation. H. Lutz. Elektrotech Zeit 45:183-5 Mr 6 '24
Care of commutators on new machines. A. A. Fredericks. Power 60:727 N 4 '24
Commutator maintenance. N. L. Rea. il Power 61:1020-2 Je 30 '25
Commutator measurements on polarized electrodes. M. Knobel. diag Am Chem Soc J 46:2613-21 D '24
Commutator slotter on banding lathe. il Elec Ry J 64:846-7 N 15 '24
Device for soldering commutator leads of small motors. H: Densmore. Am Mach 61: 476 S 18 '24
Dimensions of commutators. T: Carter. Elec R (Lond) 96:404-6 Mr 13 '25; Discussion. 96:489, 573, 652 Mr 27, Ap 10, 24 '25
Guide for undercutting commutators by hand. M. M. Brown. diag Power 59:633 Ap 22 '24
Heating of commutators; a practical investigation. P. Huggins. diags Elec R (Lond) 95:967-8 D 26 '24
Improper soldering of commutator leads causes trouble. G: W: Hanlon. Ind Eng 82:353 Jl '24
Installing commutator segments in railway shop. il Elec Ry J 65:901 Je 6 '25
Machining commutators. C. B. Keck. Mach 31:816 Je '25
Novel method of turning commutators of large D.C. machines. F: Krug. il Ind Eng 82:253 My '24
Protecting commutators from dirt during storage. il Elec Ry J 65:665 Ap 25 '25
Some troubles caused by armature and field defects. E. H. Martindale. il diags Ind Eng 81:575-8 D '23
Undercutting or slotting of commutators. F. Huskinson. Power 61:902 Je 9 '25
What causes the black spots? Power 61:110, 466-7, 702 Ja 20, Mr 24, My 5 '25

See also Brushes (electric machinery); Electric current rectifiers; Electric generators; Electric motors

Repair
How to repair riveted-type commutators. C. B. Keck. diags Ind Eng 83:504 O '25
Preheating commutators reduces time to solder. il Elec Ry J 65:702 My 2 '25
Rebuilding a large commutator in place on a generator. E: James. diags Power 62: 717-19 N 10 '25
Repair of commutators. B. E. James. il Elec J 20:440-2 D '23; Same. Power Pl Eng 28: 238-40 F 15 '24; Abstract. Elec Ry J 63:942-3 Je 14 '24
Repairing holes in commutators. B. A. Briggs. Power 60:221-2 Ag 5 '24
Resurfacing commutators. H. A. Freeman. diags Mach 32:199-200 N '25
Some emergency alterations to small commutators. G: W: Hanlon. Ind Eng 83:257 My '25
Successful repair of commutators. A. R. Knapp. diag Power Pl Eng 27:1189-90 D 1 '23

COMPANY histories. See Advertising, Institutional

COMPANY schools. See Corporation schools

COMPANY towns
How the Pacolet plant rehabilitated its village. A. D. Oliphant. il Textile World 67:852-3 F 7 '25
Industrial village on sound basis; home of the Kinkora works. il plan Iron Age 113:9-14 Ja 3 '24
Industry which created a town; Kohler Village, Wisconsin. N. S. Amstutz. il Ind Management 70:159-62 S '25

See also Housing projects, Company; Longview, Washington; Mining towns

Electricity supply
Savings in village lighting. il Textile World 66:1291+ S 6 '24

COMPARATIVE price policy. See Retail trade —Comparative price policy

COMPARATORS
Ames dial comparator. il Am Mach 63:677 O 22 '25
Bethel-Player measuring machine and comparator. il Am Mach 61:521 S 25 '24
Double-wedge comparator. E. D. Stirlen. diags Brass W 20:235-6 Jl '24; Same cond. Metal Ind 22:164 Ap '24
Hartness bench-type screw-thread comparator. il Am Mach 61:707 O 30 '24; Iron Age 114:1135 O 30 '24; Automotive Ind 51:817 N 6 '24
Pratt & Whitney automobile-camshaft comparator. il Am Mach 62:598-9 Ap 9 '25
Special hardness comparator. D. A. Hampson. diags Am Mach 61:742 N 6 '24
Using the measuring machine as a comparator. C: S. Muirhead. diag Mach 31:792 Je '25
Wilson projection comparator for screw threads. il diags Engineering 117:606-8 My 9 '24

COMPASS
Earth-induction airplane compass G: P. Luckey. Soc Auto Eng J 17:485 N '25; Same. il diags Mech Eng 47:795-6 O '25
Improvements in aircraft compasses. H. E. Wimperis. Engineering 116:600 N 9 '23
New Titterington compass makes flying safer. il Automotive Ind 52:829 My 7 '25
Pioneer earth inductor compass. il diag Aviation 16:616-17 Je 9 '24; Automotive Ind 51:325 Ag 14 '24; Sci Am 131:317 N '24
Les procédés modernes de navigation aérienne; le compas Morel. F. Collin. diags Génie Civil 86:309-12 Mr 28 '25
Some recent developments in aircraft instruments. diags Roy Aeronautical Soc J 28: 10-19 Ja '24
Sun compass. il Sci Am 131:332 N '24

See also Gyro compass; Radio compass

COMPENSATING devices
Lead compensating attachment for lathe. J. V. Romig. diags plan Mach 30:547-9 Mr '24

COMPENSATORS
Automatic compensator for high voltage is developed. il Power Pl Eng 28:1173 N 15 '24
Ein einfacher wechselstromkompensator. W: Geyger. il diags Elektrotech Zeit 45:1348-9 D 4 '24
Starting motors. il Chem & Met Eng 31:471 S 22 '24

COMPETITION
Bellicose competition a menace. H. Bilgram. Am Ind 26:22-3 Ag '25
Competition is the life of trade. P. Cabot. Harvard Business R 3:385-93 Jl '25; Same. Munic & Co Eng 69:189-95 O '25
Co-operation solves problems of distribution. C: F. Abbott. Iron Tr R 77:821-3 O 1 '25
Now let us teach salesmen to respect their rivals. H. D. Arthurs. Ptr Ink 132:134+ Ag 6 '25
What is competition? bibliog Univ J of Business 3:217-40 Je '25
What is your real competition? R. Giles. Ptr Ink 130:3-4+ Ja 8 '25
When a competitor too closely copies your sales and advertising methods. C. B. Larrabee. Ptr Ink 125:110+ N 22 '23
When competition becomes war. A. Nash. Comm & Fin 14:953-4 My 13 '25

See also Price fixing; Purchasing, Cooperative; Restraint of trade; Trusts, Industrial

COMPETITION, International
Coming conflict in international trade and the relation of the United States thereto. J. Klein. Econ W n s 29:436-8 Mr 28 '25; Same. Manuf Rec 87:103-4 Ap 2 '25; Same. Ptr Ink 131:25-6+ Ap 2 '25; Same. Am Ind 25:31-3 My '25; Same cond. Am Mach 62:562b Ap 2 '25; Same cond. Automotive Ind 52:622-3 Ap 2 '25; Excerpt. Iron Age 115:963 Ap 2 '25
Europe as a competitive manufacturer. Factory 34:35-6 Ja '25
German prices and German competition in international markets. J. Hellauer. Harvard Business R 3:35-53 O '24
Holding our export dominance. Comm & Fin 14:593 Ap 1 '25
Horizon cloud of foreign competition. W: F. Collins. Annalist 26:310 S 11 '25
International trade rivalries as viewed from the standpoint of the United States. J. Klein. Econ W n s 30:652-4 N 7 '25
Some possibilities of economic collaboration with Germany. Economist 100:1230-1 Je 20 '25

COMPETITION, Unfair
Calling a halt on substitution. Ptr Ink 127:25-6+ Je 19 '24
Chief draftsman Dobe case. Prof Eng 9:11-12 O '24
Factors conditioning marketing management. L. S. Lyons and N. W. Barnes. Univ J of Business 3:340-9 S '25
Federal court helps Timken preserve quality of product. Ptr Ink 127:114+ Ap 10 '24
Federal trade commission policy changed. L. W. Moffett. Iron Age 115:919-20 Mr 26 '25
Finding of $3,718,000 against Wrigley in gum suit. Ptr Ink 125:28+ N 22 '23
Help federal attorneys prosecute industrial crooks. Ptr Ink 132:33-4+ S 10 '25
Hidden demonstrators unfair to consumer and advertiser. J: A. Murphy. Ptr Ink 125:3-4+ D 13 '23
How industries are cleaning up with federal aid. Ptr Ink 125:145-6+ D 13 '23
Illegal competition from abroad can be stopped. Ptr Ink 129:17-20 D 4 '24
Litigation of vital importance to business that Supreme court will decide. J: F. Richter, jr. Ptr Ink 125:33-4+ N 8 '23
North Dakota wholesale grocers' association ordered by Federal trade commission to discontinue unfair methods of competition. Comm & Fin Chr 121:668 Ag 8 '25
Rulings of the Federal trade commission in 1923 that affect 1924 sales policies. J. True. Ptr Ink 126:69-70+ Ja 31 '24
Sales policies and the Federal trade commission. J. T. Young. Ann Am Acad 115:21-31 S '24
Sellers of bootleg supplies hit by Federal court injunction; protection for manufacturers in sale of re-fills and supplies for patented machines. Sales Management 9:237-8 Ag 22 '25
Selling below cost for advertising purposes not illegal price discrimination. Sales Management 8:830 My 30 '25
Taboo list of the Federal trade commission. Ptr Ink 129:41-2+ D 25 '24
Timken roller bearing protects good-will in court. Ptr Ink 126:53-4 Ja 3 '24
Unfair competition. Elec R (Lond) 96:46-8 Ja 9 '25
Unfair practices defined by Federal trade commission. Oil Paint & Drug Rep 107:7-8 Mr 26 '25; Same. Am Ind 25:28-9 Ap '25

See also Advertising, Fraudulent; Bribery, Commercial; Discount, Trade; Dumping (commercial policy); Misbranding; Salesmen, Retail—Bonuses

COMPETITIVE products. See Products, Competitive

COMPIÈGNE, Palace of
Napoleon's bedroom at Compiègne. C. H. Preston. il diags Arch Forum 43:113-18 Ag '25

COMPLAINTS
Capitalizing mistakes. G. S. Childs. Am Management R 14:79-80 Mr '25
Complaints—what a sales approach! J. H. Collins. Ptr Ink 130:3-4+ F 19 '25
Delicate letter problem. A. R. King. Ptr Ink 130:44 Mr 5 '25
Disgruntled customer. C: R. Wiers. il Sales Management 6:771-2+ Ap '24
Is the customer always right? W. B. Edwards. Ptr Ink 127:89-90+ Je 12 '24
J. Jump cashes in on complaints. L. Anson. System 48:61-4+ Jl '25
President of Cadillac shows how to handle complaints. Ptr Ink 130:133-4+ F 26 '25
Soft answer that turned away wrath. Ptr Ink 130:77+ Ja 22 '25
This is why you can't be right. Ptr Ink 130: 109-10 Ja 29 '25
Three remedies for common errors that hurt sales. Ptr Ink 129:156+ O 9 '24
Turn-downs as salesmen. C: R. Wiers. il Sales Management 6:1061-2+ Je '24
When a product goes wrong after leaving the plant. C: G. Muller. Ptr Ink 131:65-6+ Ap 9 '25
Why every complaint is an opportunity. Forbes 14:556-8 Ag 1 '24
Your answers to my complaint letters. A. H. Van Voris. Ptr Ink 131:109-10+ Ap 16 '25

See also Adjustment bureaus; Electric utilities—Complaints; Gas companies—Complaints; Returned goods

COMPOSING machines. See Typesetting machines

COMPOSITION (art)
Composition. A. W. Dow. 128p Doubleday '24
Synthetic harmony—; a study in concrete beauty; satire. G. L. Kaufman. il diags Arch Rec 57:353-8 Ap '25

COMPOUND words
Are hyphens helpful? E: N. Teall. Inland Ptr 74:570-1 Ja '25
Compendium of compound words. P. O. Landon, comp. 104p Homestead co., Des Moines, Iowa '25

COMPRESSED air
Air hoist in bridge work. diag Eng & Contr (G C) 63:844 Ap 17 '25
Attacking the utility sector of factory overhead. N. L. Sammis. Ind Management 70: 37-8 Jl '25
Cleaning oil wells by air. A. A. Beard and R. A. Bonnell. Pet Age 16:48-9 S 1 '25
Cleaning out with air; revolutionary advance in production methods. A. F. Hinton. il Nat Pet N 17:50-2+ Je 24 '25
Compressed air concrete piles. Engineering 118:414, 416 S 19 '24; Same. Eng & Contr (Bldgs) 62:939-40 O 22 '24
Compressed air data. W: L. Saunders. 2d ed. 290p Compressed air magazine, New York '24
Compressed air on sand gets big result in small pool. L. E. Smith. map Nat Pet N 17:99+ Je 24 '25
Compressed air piping. Power Pl Eng 28:745 Jl 15 '24
Compressed-air plant for erecting Chicago trainshed. diags Eng N 93:963-4 D 11 '24

COMPRESSED air—*Continued*
Compressed air used for hydraulic-turbine inspection. C. R. Reid. diags Power 62:716-17 N 10 '25
Controlling an electric hoist by compressed air. H. V. Haight. il diags Eng & Min J 117:504-6 Mr 22 '24
Cutting out waste in the factory air system. F. Johnstone-Taylor. diags Cassier's Ind Management 11:239-40+ My 1 '24; Excerpts. Factory 32:924+ Je '24
For what use has compressed air been found an advantage in distribution? il Am Gas Assn Technical sec v 6:1260-3 '24
Interest in methods of increasing recovery is general. Nat Pet N 17:95+ Je 24 '25
Lehigh uses compressed air for many sorts of track work. W. F. Nichols. Eng & Contr (Ry) 62:879-81 O 15 '24
Maintaining compressed-air lines 19,000 ft. long. diag Eng N 94:1012 Je 18 '25
New dock equipment on the Clyde. il diags Engineer 139:332-3 Mr 20 '25
Pile driver operated by compressed air. S. G. Roberts. il Eng & Contr (Bldgs) 62:479-80 Ag 27 '24
Pneumatic hydraulic accumulators. il diags Chem & Met Eng 32:21-2 Ja 5 '25
Pneumatic pumping up to date. J: Oliphant. diags Am Water Works Assn J 10:1082-7 N '23
Possibilities of improvements in compressed-air plant operation; abstract. A. Hinz. Mech Eng 46:417 Jl '24
Precipitation of water in compressed air systems. D. W. Lloyd. Ry Mech Eng 99:215-16 Ap '25
Using compressed air in the Chrysler plant. il Am Mach 63:466-7 S 17 '25
Wege zur verbesserung der druckluftwirtschaft auf bergwerken. H. Reiser. diag Zeit Ver Deutsch Ing 68:653-6 Je 21 '24

See also Air compressors; Air lifts; Air receivers; Caissons; Pneumatic conveying; Pneumatic tools; Vacuum cleaning

Cooling

Cooling and drying compressed air. J. B. Leonard. Ry Mech Eng 99:721-2 N '25

COMPRESSED gases. See Gases, Compressed

COMPRESSIBILITY
Compressibilities of the chlorides, bromides and iodides of lithium, rubidium and cesium. T. W. Richards and E. P. R. Saerens. diag Am Chem Soc J 46:934-52 Ap '24
Compressibility, internal pressure and change of atomic volume. T. W: Richards. diags J Fr Inst 198:1-27 [bibliog. p. 25-7] Jl '24
Compressibility of several artificial and natural glasses. P. W. Bridgman. Am J Sci 5th ser 10:359-67 O '25
Compressibility of the alkali halides. J. C. Slater. Phys R 23:488-500 Ap '24
Densities and compressibilities of several organic liquids and solutions, and the polymerization of water. T. W: Richards and H. M. Chadwell. Am Chem Soc J 47:2283-2302 S '25
Thermal conductivity and compressibility of several rocks under high pressures. P. W. Bridgman. bibliog diag Am J Sci 5th ser 7:81-102 F '24

See also Elasticity

COMPRESSION
Comparison of thermodynamic characteristics of various refrigerating fluids, with reference to their adaptability for both positive and centrifugal compression. W. H. Carrier and R. W. Waterfill. diags Refrig Eng 10: 415-24 [bibliog. p. 423-4] Je '24

COMPRESSION of gases
Aids for the solution of gas compression problems. L. G. Jones. Gas Age 55:37-8 Ja 10 '25

COMPRESSORS
Compressor theory and practice. J. M. Ford. 364p Van Nostrand '23
Lubrication of refrigeration compressors other than ammonia. A. F. Brewer. Power 59:524-5 Ap 1 '24; Same. Refrig Eng 10:407-8 My '24

See also Air compressors; Ammonia compressors; Carbon dioxide compressors; Compression of gases; Gas compressors

COMPRESSORS, Gas. See Gas compressors

COMPTON effect
Dependence of the intensity of the Compton effect upon the atomic number. B. Davis. Phys R 25:737-9 Je '25
Quantum theory of the intensity of the modified band in the Compton effect. G. E. M. Jauncey. diags Phys R 25:723-36 Je '25
Quantum theory of the unmodified spectrum line in the Compton effect. G. E. M. Jauncey. diags Phys R 25:314-21 Mr '25
Theory of the width of the modified spectrum lines in the Compton effect. G. E. M. Jauncey. Philos Mag 6th ser 49:427-33 F '25
Wave theory of the Compton effect. C. Eckart. Phys R 24:591-6 D '24

COMSTOCK merger mines company
Comstock merger issues $1,500,000 bonds to finance operations in Nevada. Eng & Min J 118:1026 D 27 '24

CONCENTRATING tables
Concentrating tables—their operation and what results they obtain in cleaning anthracite. J: Griffin. il Coal Age 26:217-19 Ag 14 '24

CONCENTRATION
Mining, concentrating, and marketing garnet. F. E. Wormser. flow sheet il diags Eng & Min J 118:525-31 O 4 '24

See also Distillation; Evaporation; Ore treatment; Sulfuric acid—Manufacture

CONCENTRATION cells
Influence of gelatin on transference numbers. G: Scatchard. Am Chem Soc J 46:2353-7 N '24
Surface-tension crystal v. saturated solution—the concentration cell: finely divided salt/supersaturated solution/saturated solution/large crystals. L. Soep Philos Mag 6th ser 50:675-80 O '25

CONCENTRATION of ore. See Ore treatment

CONCESSIONS
Concessions to foreign capitalists for the exploitation of raw materials. W: S. Culbertson. Ann Am Acad 112:99-113 Mr '24

CONCRETE
Adhesion of gypsum plaster to concrete. Concrete 25:237 D '24
Architectural concrete. J: J. Earley. il Am Concrete Inst Pro 20:157-67 '24; Same, without il. Concrete 24:91-3 Mr '24
Autogenous healing of concrete. D. A. Abrams. Concrete 27:50 Ag '25
Cement is the magic of concrete. F. W. Kelley. il Am Concrete Inst Pro 20:43-52 '24; Same. Concrete 24:85-7 Mr '24
Cement study activated by government committee. Eng N 92:725 Ap 24 '24
Concrete. Blast F & Steel Pl 12:297-8 Je '24
Concrete and ordered knowledge. W. Marriott. Engineering 116:780 D 21 '23
Concrete for permanence. R. B. Young. Can Eng 46:538 My 20 '24
Concrete from the viewpoint of Mr Cement. T. Merriman. Am Concrete Inst Pro 21:109-12 '25
Concrete methods on the C.C.C. & St L. Ry. J. B. Hunley. Eng & Contr (Bldgs) 61:871-9 Ap 23 '24
Concrete, plain and reinforced. F: W. Taylor and others. 4th ed. Wiley '25
Contribution of scientific research to the development of the Portland cement industry in the United States. D. A. Abrams. Ann Am Acad 119:40-7 My '25
Crazing. Concrete 25:85 S '24
Crazing on cement products. P. H. Bates. Am Concrete Inst Pro 21:126-30 '25; Same. Concrete 26:89-90 Mr '25; Discussion. Am Concrete Inst Pro 21:131-3 '25

CONCRETE—*Continued*
Effect of centrifugal action on concrete. G. J. Ward. Soc Chem Ind J (Chem & Ind) 43: 310-11 Mr 21 '24
Efflorescence in concrete products. A. S. Bowes. Eng & Contr (Bldgs) 62:208-9 Jl 23 '24
Efflorescence or "bloom"—its causes, prevention and removal. Concrete 25:86-7 S '24
Einflüsse auf beton. A. Kleinlogel. 331p W. Ernst & sohn, Berlin '24
High points of the new joint committee report on concrete. N. M. Stineman. Concrete 26:154-6 My '25
How 2500-lb. concrete becomes 500-lb. concrete by disregard of five factors. J. H. Wasson. Concrete 26:20-1 Ja '25
Korrelbeton in Holland. Concrete 25:200 N '24
Lowering the cost of concrete in the Pacific Northwest. I. L. Collier. Washington (state) U Eng Exp Sta Bul 31:1-31 '25
Making good concrete. D. A. Abrams. il Am Concrete Inst Pro 20:175-81 '24
Observations on rock boring mollusks in concrete. W. R. Sadler and D. E. Hughes. Eng N 93:1027-8 D 25 '24; Abstract. Concrete 26: 137 Ap '25
Portland cement. il Nation's Business 12: 31-4 Ja '24
Quest for better concrete. T. Merriman. Concrete 25:63-4 Ag '24
Relation of 7-day to 28-day concrete strength. Eng N 93:879; 94:164 N 27 '24, Ja 22 '25
Silicate of soda and concrete. L. A. Munro Chem Age (Lond) 10:571 My 31 '24
Simple moulds for concrete work. F. Jay. diags Bldg Age 46:84+ O '24
Symposium: what properties of and methods of making concrete require further investigation? Am Soc T M Pro 23 pt 2:156-247 '23
Use of hydrated lime with Portland cement. J: W. Ramsey. Arch Forum 40:125-8 Mr '24; Same. Eng & Contr (Bldgs) 63:434-8 F 25 '25
Uses of concrete in chemical works. A. C. Irwin. Am Inst Chem Eng Trans v 14:365-76; Discussion. 377-80 '21-'22
What is good concrete? Eng N 94:506-7 Mr 26 '25; Same. Concrete 26:214 Je '25

See also Cement; Concrete, Porous; Concrete, Reinforced; Concrete construction and other headings beginning Concrete; Grouting; Gunite; Gypsum concrete; Pavements, Concrete; Pipes, Concrete; Prodorite; Roads, Concrete; Sewers, Concrete; Waterproofing

Aggregate

Accelerated wear tests of concrete pavements. F. H. Jackson and J. T. Pauls. il Am Soc T M Pro 24 pt 2:864-96 '24; Same. Pub Roads 5:1-19 My '24; Same. Eng & Contr (R & S) 62:302-13 Ag 6 '24; Excerpts. Eng N 92:984-5 Je 5 '24; Conclusions. Pub Works 55:194-6 Je '24; Discussion. Am Soc T M Pro 24 pt 2:897-900 '24
Aggregates and water-cement ratios. Eng & Contr (Bldgs) 63:866-8 Ap 24 '25
Analysis of grading curve for concrete aggregates. L. I. Hewes. Eng N 93:222-6 Ag 7 '24; Discussion. 93:602 O 9 '24
Le bardage des pieux en béton armé. Conte. Génie Civil 83:563-5 D 8 '23
Blast-furnace slag as an aggregate in concrete. R. Harsch. flow chart Am Soc T M Pro 23 pt 2:255-73; Discussion. 274-5 '23
Bulking of moist sands; effect of phenomenon on strength and yield of concrete. A. A. Levison. il diags Pub Roads 5:21-3 Jl '24; Same. Concrete 25:87-9 S '24
Chert unfit for coarse aggregate in concrete F. V. Reagel. il Eng N 93:332-4 Ag 28 '24
Concrete aggregate from waste products. Can Eng 49:252 Ag 25 '25
Concrete aggregate produced from local deposit. J. A. Garrod. diags Eng N 91:1012-15 D 20 '23
Crushed brick makes good concrete block. Concrete 25:91-2 S '24
Crushed limestone and hollow-tile waste aggregate. Concrete 27:29 Jl '25; Same. Eng & Contr (Bldgs) 63:1362 Je 24 '25
Crushed-stone tests and their relation to the service of the finished pavement. A. T. Goldbeck. Pub Roads 5:15-18 F '25
Development of cinder concrete building units. H. Whipple. Concrete 24:226-32+ Je '24
Economical handling of raw materials in building unit manufacture. diags Concrete 25:13-18 Jl '24
Effect of grading on sand strength ratios. C. E. Proudley. Pub Roads 6:90-1 Je '25; Same. Concrete 27:25-6 O '25
Effect of type of coarse aggregate on quality of concrete. S. Walker. il Concrete 27:40-1 Ag '25
Field control of concrete aggregates in concrete highway construction. R. W. Crum. il Good Roads 56:41-3+ F '24
Furnishing concrete by a strength specification; application of the water-cement ratio theory. J: G. Ahlers. il diag Eng N 95:674-7 O 22 '25
Grading aggregates by fineness modulus method. C. D. Willett. charts Eng N 92: 1010-11 Je 12 '24
Influence of aggregates on the durability of concrete. D. A. Abrams. Am Soc T M Pro 23 pt 2:172-4 '23
Influence of aggregates upon shrinkage of mortar and concrete. C. M. Chapman. il Am Soc T M Pro 24 pt 2:767-77; Discussion. 778-80 '24
Measuring concrete aggregates by weight. il Eng & Contr (Equip R) 64:736 S 30 '25; Good Roads 68:26-1 O '25
Method for testing fine aggregate. G. W. Hutchinson. Eng N 95:395 S 3 '25
Mineralized sawdust aggregate for concrete. Concrete 25:106-7 S '24
One-day strength test suggested for concrete aggregate; quick hardening alumina cement. S. B. Slack and J. E. Boyd. Eng N 94:1014-15 Je 18 '25; Discussion. 95:113 Jl 16 '25
Predetermining concrete strength on park bridges. W. F. Welsch. Eng N 95:630-1 O 15 '25
Pre-drying concrete aggregates. W. W. Zass. Concrete 27:24-5 Ag '25
Producing a concrete of uniform quality on the job. R. B. Young. Eng N 95:679-80 O 22 '25
Putting slag to work. il Sci Am 133:44-5 Jl '25
Quality of concrete for gas plant construction. Gas Age 54:857-8 D 20 '24
Richtlinien für die herstellung und lieferung von hochofenschlacke als zuschlagstoff für beton und eisenbeton. Stahl & Eisen 44:590-1 My 22 '24
Schlackensand als zuschlagstoff für beton und eisenbeton. H. Burchartz. Stahl & Eisen 44:650-7 Je 5 '24
Selection of sand and gravel for concrete in the Pittsburgh district. C. M. Reppert and others. Eng Soc W Pa 40:56-92; Discussion. 93-102 Mr '24
Standard method of tests of aggregates for concrete. Am Soc C E Pro 50:1253-6 O '24
Standard specifications for concrete and reinforced concrete; submitted by the joint committee. Am Soc C E Pro 50:1275-6 O '24
Stone and gravel producers present memorial to G. S. Henry, to consider discontinuing the use of any course aggregate other than plants producing clean, washed, crushed material. Can Eng 48:601-3 Je 23 '25
Storing and handling of materials for concrete products. W: F. Lockhardt. diags Concrete 25:154-6 O '24
Strength of concrete, its relation to the cement, aggregates, and water. A. N. Talbot and F. E. Richart. Ill U Eng Exp Sta Bul 137:1-116 '23; Excerpts. Eng & Contr (Bldgs) 60:1135-40 N 28 '23; Conclusion. Pub Works 55:28 Ja '24
Study of crushing and heaving of concrete pavement bases. R. M. Green. Munic & Co Eng 66:216-19 My '24
Table of aggregates revised. Concrete 27:46 S '25

CONCRETE—Aggregate—*Continued*

Testing materials for concrete. D. Abrams. Can Eng 45:392-3 O 9 '23; Same. Eng & Contr (R & S) 60:996-7 N 7 '23; Same. Concrete 24:155-6 Ap '24

Volume and weight proportioning. C: S. Johnson. Eng & Contr (R & S) 63:3-4 Ja 7 '25

Washed gravel vs. crushed rock in concrete. J: A. Hawley. Eng N 95:175 Jl 30 '25

Waste rock from glass sand quarries as aggregate. F. L. Hawkins. il Eng & Contr (R & S) 63:254-6 F 4 '25

Wear of concrete pavements tested. F. H. Jackson and J. T. Pauls. il Pub Roads 5:1-19 My '24; Same. Eng & Contr (R & S) 62: 302-13 Ag 6 '24; Excerpts. Eng N 92:984-5 Je 5 '24; Conclusions. Pub Works 55:194-6 Je '24

Weighing concrete aggregates on highway pavements. R. W. Crum. il Am Concrete Inst Pro 20:296-309 '24; Same, without il. Eng & Contr (R & S) 61:730-5 Ap 2 '24; Excerpt. Eng N 92:451 Mr 13 '24; Discussion. Am Concrete Inst Pro 20:310-11 '24

Weighing concrete pavement aggregate. Pub Works 56:375-6 O '25

See also Gravel

Analysis

Determining the cement content of concrete. H. F. Kriege. Eng N 92:892-3 My 22 '24

Cleaning

Air and water jet cleans concrete surface for next pour. il diag Eng N 93:351 Ag 28 '24

Coloring

Shall anything be added to Portland cement? M. Toch. il Am Concrete Inst Pro 21:134-43 '25; Abstract. Concrete 26:96-7 Mr '25; Discussion. Am Concrete Inst Pro 21:144-7 '25

Curing

Action of sulphate water on concrete; a summary of tests of specimens immersed for one year in Medicine Lake, S. Dak. D. G. Miller. il Pub Roads 6:174-9+ O '25

Curing concrete with calcium chloride. C. L. McKesson. Pub Roads 6:23 Mr '25; Same. Concrete 27:28 Jl '25

Curing conditions of concrete drain tile; a factor of resistance to sulfate waters. D. G. Miller. il Concrete 24:235-8 Je '24; Same cond. Eng & Contr (W W) 62:361-3 Ag 13 '24; Same. Pub Roads 5:12-13 Je '24

Cutting down curing period for concrete roads. H. F. Clemmer. il Eng & Contr (R & S) 61:283-90 F 6 '24; Same. Concrete 24: 148-51 Ap '24; Same abr. Eng N 92:577-80 Ap 3 '24; Same cond. Can Eng 46:455-7 Ap 22 '24; Abstract. Pub Works 55:125-6 Ap '24

Effect of curing methods on concrete roads. H. J. Kuelling. Eng N 91:466-8 S 20 '23; Discussion. 91:858-9 N 22 '23

Investigation in the use of calcium chloride as a curing agent and accelerator of concrete. H. F. Clemmer and F. Burggraf. il Am Soc T M Pro 23 pt2:296-314; Discussion. 315-28 '23

Investigation of the effect of various methods of curing concrete building block. Am Concrete Inst Pro 21:498-512 '25

Laboratory investigations of the influence of curing conditions and various admixtures on the life of concrete stored in sulfate solutions as indicated by physical changes. D. G. Miller. il Am Soc T M Pro 24 pt 2:847-61; Discussion. 862-3 '24

Studies of curing concrete in a semi-arid climate. H. F. Gonnerman and C. L. McKesson. (Bul. 15) 37p Structural materials research laboratory, Lewis institute, Chicago '25

Temperatures in high-alumina cement and methods of curing. H. S. Mattimore. Eng N 95:64 Jl 9 '25

Tests show how damp-sand curing improves quality of concrete. F. D. Crook and H. Faulkner. il Eng N 92:1050-1 Je 19 '24

Expansion and contraction

Effect of moisture on concrete. W. K. Hatt. il Am Soc C E Pro 51:757-93 My '25; Excerpts. Concrete 26:192-3 Je '25; Conclusions. Pub Works 56:215-16 Je '25

Effect of shrinkage in concrete. A. B. MacMillan. Concrete 26:216 Je '25

Fundamental cause of the disintegration of concrete. A. H. White. il Concrete 26:157-61 My '25; Same. Munic & Co Eng 69:27-33 Jl '25; Same. Can Eng 49:439-41 O 6 '25

Influence of aggregates upon shrinkage of mortar and concrete. C. M. Chapman. il Am Soc T M Pro 24 pt 2:767-77; Discussion. 778-80 '24

Finishing

Berg concrete surfacer and finisher. il Eng & Contr (Equip R) 64:749 S 30 '25

Compound, painted on forms, gives exposed aggregate finish. il Eng N 92:424 Mr 6 '24

Exterior finish, California palace of the Legion of honor. E. F. Halloran. il Eng & Contr (Bldgs) 63:399-402 F 25 '25

Finish of exterior concrete surfaces. G: E. Horr. il Concrete 26:149-53 My '25; Same. Eng & Contr (Bldgs) 64:955-61 O 28 '25

Notes on concrete floor finish. E. E. Davis. Am Concrete Inst Pro 21:183-7 '25

Recommended practice for treatment of interior concrete surfaces. Am Concrete Inst Pro 21:557-62 '25

Sands in molds gives attractive finish to precast concrete blocks. il Eng N 94:528 Mr 26 '25

Treatment of concrete surfaces. Can Eng 46: 526 My 13 '24

See also Concrete, Ornamental; Concrete stone; Stucco

Specifications

Report of the joint committee on standard specifications for concrete and reinforced concrete; surface finish. Am Soc T M Pro 24 pt 1:335-8 '24; Same. Am Soc C E Pro 50: 1184-6 O '24; Same. Am Concrete Inst Pro 21:363-6 '25

Tentative standard recommended practice for treatment of exterior surfaces of industrial reinforced-concrete buildings. Am Concrete Inst Pro 21:564-72; Discussion. 573 '25

Freezing

Freezing and thawing tests of cinder concrete tile. Concrete 26:174 My '25

Multiple-arch dam at Gem lake on Rush Creek, California; frost action. F. O. Dolson and W. L. Huber. il diags plans Am Soc C E Pro 51:1310-32; Discussion. J. Y. Jewett. 1453-5 S '25

See also Concrete construction in winter

History

Progress of two decades. R: L. Humphrey. Am Concrete Inst Pro 20:22-42 '24

Some pioneers in the cement and concrete industries of Great Britain. F. Jay. Concrete 25:143 O '24

Mixing

See Concrete mixing

Moisture content

Effect of moisture on concrete. W. K. Hatt. il Am Soc C E Pro 51:757-93 My '25; Excerpts. Concrete 26:192-3 Je '25; Conclusions. Pub Works 56:215-16 Je '25; Discussion. Am Soc C E Pro 51:1157-9 Ag '25

Patents

Development of cinder concrete building units. H. Whipple. Concrete 24:226-32+ Je '24

Protection

Protection of concrete against alkali; water-gas and coal tars and paraffin treatments. E. C. E. Lord. Pub Roads 5:23-5 My '24; Same. Concrete 25:47-9 Ag '24

Report of committee E-6 on destructive agents and protective treatments. Am Concrete Inst Pro 20:564-76 '24; 21:266-80; Discussion. 281-3 '25

CONCRETE—Protection—*Continued*
Specific requirements safeguard road concrete. Eng N 94:1017 Je 18 '25
See also Concrete, Effect of alkalies on

Reinforcement

See Concrete, Reinforced

Sampling

Standard specifications for concrete and reinforced concrete; submitted by the joint committee. diags Am Soc C E Pro 50:1264-7 O '24

Setting

Accelerators for concrete; lowering the freezing point in cold weather work. Concrete 24:33-4 Ja '24
Effect of accelerators in concrete. Eng & Contr (Bldgs) 60:358-61 Ag 22 '23; Excerpt. Can Eng 46:107 Ja 1 '24; Abstract. Eng N 91:142 Jl 26 '23
Quick setting cement in bridge construction. A. L. Hambrecht. Eng & Contr (R & S) 64:557 S 2 '25
Quick setting concrete for highway paving. A. W. Bushell. il Pub Works 55:281-2 S '24
Silicate of soda and concrete. Chem Age (Lond) 11:118; 12:33 Ag 2 '24, Ja 10 '25
Silicate of soda as a concrete hardener. Concrete 25:97 S '24

Specifications

Discussion of the report of the Joint committee on standard specifications for concrete and reinforced concrete submitted to constituent organizations, August 14, 1924. Boston Soc C E J 12:63-88 F '25
High points of the new joint committee report on concrete. N. M. Stineman. Eng & Contr (Bldgs) 63:1149-53 My 27 '25; Same. Munic & Co Eng 68:223-7 My '25
Standard specifications for concrete and reinforced concrete; submitted by the joint committee. Am Soc C E Pro 50:1161-1285 O '24; Same, without appendices 2-15. Am Soc T M Pro 24 pt 1:303-85 '24; Same. Am Concrete Inst Pro 21:339-413 '25; Discussion. Am Soc C E Pro 51:1485-1537 S '25; Am Concrete Inst Pro 21:414-25 '25

Standards

Inundation as a practical aid to uniform concrete. A. A. Levison. il Am Concrete Inst Pro 21:216-25; Discussion. 226-31 '25
See also Concrete blocks—Standards

Temperature

Early high temperatures in alumina cement concrete. Eng N 94:320 F 19 '25
Interior temperatures in concrete. diags plan Am Arch 124:568-70 D 19 '23
Taking concrete dam temperatures during process of setting. Eng N 93:964-5 D 11 '24

Terminology

Meaning of terms used in design of concrete mixes. E. Seelye. Concrete 27:34 Ag '25
Report of committee G-4, on nomenclature. Am Concrete Inst Pro 20:577-9 '24
Report of the joint committee on standard specifications for concrete and reinforced concrete; definitions. Am Soc T M Pro 24 pt 1:315-19 '24; Same. Am Soc C E Pro 50: 1166-9 O '24; Same. Am Concrete Inst Pro 21: 343-7 '25

Testing

Better concrete results from field tests. il diag Elec Ry J 64:85-7 Jl 19 '24
Building cements and concretes. Can Eng 49: 312 S 15 '25
Calcium chloride as an admixture in concrete. D. A. Abrams. Am Soc T M Pro 24 pt 2:781-834 [bibliog. p. 830-4] '24; Abstract. Concrete 26:99-101 Mr '25; Excerpt (Conclusions). Eng N 93:66-7 Jl 10 '24; Discussion. Am Soc T M Pro 24 pt 2:835-40 '24
California road bridge concrete all tested in field. H. D. Miller. Eng N 95:182 Jl 30 '25; Same cond. Concrete 27:49 Ag '25
Close water control important in alumina cement concrete. P. H. Bates. Eng N 95: 462-3 S 17 '25
Control and records of concrete construction. J. D. Stevenson. Eng Soc W Pa 40:85-8 Mr '24
Direct measurement of Poisson's ratio for concrete. A. N. Johnson. bibliog il diags Am Soc T M Pro 24 pt 2:1024-33; Discussion. 1034-5 '24
Discussion of the results of tests of job concrete. W. P. Bloecher. diag Am Concrete Inst Pro 20:433-41 '24
Economic value of admixtures. J. C. Pearson and F. A. Hitchcock. diag Am Concrete Inst Pro 20:312-27 '24; Excerpts. Concrete 24:96 Mr '24; Eng N 92:450-1 Mr 13 '24; Discussion. Am Concrete Inst Pro 20:328-47 '24; Abstract. Can Eng 47:523-4 N 18 '24
Economical manufacture of quality concrete products. E. W. Dienhart. Concrete 24:182-8 My '24
Effect of accelerators in concrete. Eng & Contr (Bldgs) 60:358-61 Ag 22 '23; Excerpt. Can Eng 46:107 Ja 1 '24; Abstract. Eng N 91:142 Jl 26 '23
Effect of capping on strength of cores. R. E. Bergford. Concrete 27:22 Jl '25
Effect of end condition of cylinder in compression tests of concrete. H. F. Gonnerman. il diags Am Soc T M Pro 24 pt 2:1036-63 [bibliog. p. 1062-3] '24; Abstract. Engineer 140:164 Ag 14 '25; Conclusions. Am Arch 128:37-8 Jl 1 '25; Can Eng 49:129 Jl 14 '25; Munic & Co Eng 69:51-3 Jl '25; Eng N 95:64 Jl 9 '25; Concrete 27:44 S '25; Discussion. Am Soc T M Pro 24 pt 2:1064-5 '24
Effect of moisture on concrete. W. K. Hatt. il Am Soc C E Pro 51:757-93 My '25; Abstract. Pub Roads 6:14-23 Mr '25; Conclusions. Pub Works 56:215-16 Je '25
Field control of concrete on the Delaware river bridge. A. W. Munsell. il diag Am Concrete Inst Pro 21:50-66; Discussion. 67 '25
Field tests of concrete. J: G. Ahlers and S. Walker. il Am Concrete Inst Pro 20:358-97 '24; Excerpts. Eng N 92:449-50 Mr 13 '24; Discussion. Am Concrete Inst Pro 20:398-402 '24
Field tests of concrete used on construction work. W. A. Slater and S. Walker. Am Concrete Inst Pro 20:420-32 '24
Fine grinding of cement increases strength of concrete. M. Teman and W. H. Sligh. Concrete 27:47-9 S '25
Healed concrete is strong. M. J. Phillips. Concrete 27:36 N '25
How transportation affects concrete quality. G: P. Rigsby and G: F. Schraitle. Concrete 25:229 D '24
Improvements in testing concrete specimens. S. H. Sheib. diag Eng N 94:530-1 Mr 26 '25
Late data on the effect of finer grinding and a higher SO_3 content upon the physical properties of Portland cement. P. H. Bates. Am Soc T M Pro 23 pt 2:248-54, pl 1 '24
Methods of securing samples of completed pavements, with reference to the determination of the quality of the cement-concrete foundation. E. E. Butterfield. il Am Soc T M Pro 24 pt 2:1066-79 '24; Same. Eng & Contr (R & S) 62:526-34 S 3 '24; Discussion. Am Soc T M Pro 24 pt 2:1080-3 '24
Nail-holding power of cinder concrete. Concrete 26:144 Ap '25
New test for consistency of concrete applicable to dry paving mixtures. F. H. Jackson and G: Werner. il Pub Roads 6:121-3+ Ag '25
New testing devices for use of the highway engineer developed by Bureau of public roads. Good Roads 68:248 O '25
Penetration test for the workability of concrete mixtures with particular reference to the effects of certain powdered admixtures. J. C. Pearson and F. A. Hitchcock. diag Am Soc T M Pro 23 pt 2:276-94; Discussion. 295 '23

CONCRETE—Testing—*Continued*
Permeability tests on broken stone concrete. M. O. Withey and C. A. Wiepking. bibliog il diags Wis U Bul Eng S v 9 no 2:1-55 '23; Excerpts. Concrete 24:256 Je '24; Can Eng 47:242-3 Ag 12 '24
Practical application of field control of concrete. T. P. Watson. il Ry R 76:845-50 My 9 '25
Predetermining concrete strength on park bridges. W. F. Welsch. Eng N 95:630-1 O 15 '25
Preparation of concrete cores for compression tests. C. E. Proudley. Pub Roads 6: 183 O '25
Proportioning concrete for testing purposes. Pub Roads 5:18-19 Je '24
Report on field tests of concrete used on construction work. W. A. Slater and S. Walker. il Am Soc C E Pro 51:3-61 Ja '25
Standard specifications for concrete and reinforced concrete; submitted by the joint committee. Am Soc C E Pro 50:1259-63 O '24
Tests of impure waters for mixing concrete. D. A. Abrams. Am Concrete Inst Pro 20:442-86 '24; Excerpts. Pub Works 56:31 Ja '25; Summary. Concrete 24:241-3 Je '24; Same. Can Eng 46:617-18 Je 17 '24; Same. Eng & Contr (R & S) 61:1229-31 Je 4 '24; Same. Ry R 75:277-9 Ag 23 '24
Tests show how damp-sand curing improves quality of concrete. F. D. Crook and H. Faulkner. il Eng N 92:1050-1 Je 19 '24
Uniformity in field concrete. G. W. Hutchinson. Concrete 27:28-9 O '25
Value of concrete in structures. W. A. Smith. Can Eng 49:194 Ag 4 '25

See also Concrete, Reinforced—Testing; Concrete blocks—Testing; Floors, Concrete—Testing

Waterproofing

See Waterproofing

CONCRETE, Effect of alkalies on
Behavior of concrete exposed to alkaline conditions. G. M. Williams. Am Soc T M Pro 23 pt 2:205-10 '23; Same. Eng & Contr (W W) 60:288-91 Ag 8 '23; Same. Can Eng 45: 587-8 D 18 '23; Abstract. Eng N 91:56-7 Jl 12 '23
Deterioration of concrete in sea and alkali water. O. L. Grover. il Concrete 27:17-18 O '25
Making drain tile resist alkali and peat soil. il Concrete 27:21-2 Ag '25

Bibliography

Bibliography relating to soil alkalies. F. V. King, G. Ervin and O. L. Evans. U S Agric Bul 1314:1-40 '25

CONCRETE, Effect of oils on
Effect of oils and miscellaneous liquids on concrete and method of protective treatment where required. Am Soc T M Pro 24 pt 1:381-2 '24; Same. Am Soc C E Pro 50: 1283-4 O '24; Same. Am Concrete Inst Pro 21:409-10 '25

CONCRETE, Effect of peat on
Behaviour of cement mortar and concrete in German bogs. il Concrete 24:207-8 My '24

CONCRETE, Effect of sea water on
Behavior of concrete exposed to sea water. S. C. Hollister. Am Soc T M Pro 23 pt 2: 202-4 '23
Concrete in sea water. A. G. Tapley. Concrete 25:226-7 D '24
Concrete piles resist action of sea water for five years. C: M. Spofford. Eng N 92:765 My 1 '24
Concrete stands up sixteen years in tidal river. M. Hirschthal. diag Eng N 92:127 Ja 17 '24
Deterioration of concrete in sea and alkali water. O. L. Grover. il Concrete 27:17-18 O '25
Deterioration of structures and timber, metal, and concrete exposed to the action of seawater; report of the Committee of the Institution of civil engineers. 78p Gt. Brit. Dept. of scientific and industrial research, London '23
Disintegration of cement in sea water. W: G. Atwood and A. A. Johnson. Am Soc C E Pro 49:1038-58; Bibliography. 1058-64 Ag '23; Same, without bibliog. Eng & Contr (Bldgs) 59:1425-36 Je 27 '23; Abstract. Ry R 73:239-40 Ag 18 '23; Conclusions. Ry Age 74:1462 Je 16 '23; Same. Mech Eng 45:544 S '23; Discussion. Am Soc C E Pro 49:1647-61, 1762-6, 1914-23, 2060-6; 50:47-57 S '23-Ja '24; Concrete 23:234-8 D '23
Occurrence of deterioration in a sample of concrete. W. T. Cooke. Soc Chem Ind J 42: 433-4 N 9 '23
Reinforced concrete in sea water. H. Forchhammer. Concrete 25:62 Ag '24

Bibliography

Bibliography relating to soil alkalies; sea water. F. V. King, G. Ervin and O. L. Evans. U S Agric Bul 1314:17-26 '25
Marine structures; their deterioration and preservation. W: G. Atwood and A. A. Johnson. p. 496-519 National research council, Washington, D.C. '24

CONCRETE, Effect of sulfates on
Action of sulphate water on concrete; a summary of tests of specimens immersed for one year in Medicine Lake, S. Dak. D. G. Miller. il Pub Roads 6:174-9+ O '25
Curing conditions of concrete drain tile; a factor of resistance to sulfate waters. D. G. Miller. il Concrete 24:235-8 Je '24; Same cond. Eng & Contr (W W) 62:361-3 Ag 13 '24; Same. Pub Roads 5:12-13 Je '24
Disintegration of Portland cement in sulfate waters. T. Thorvaldson, R. H. Harris, and D: Wolochow. Ind & Eng Chem 17:467-70 My '25
Laboratory investigations of the influence of curing conditions and various admixtures on the life of concrete stored in sulfate solutions as indicated by physical changes. D. G. Miller. il Am Soc T M Pro 24 pt 2: 847-61; Discussion. 862-3 '24

CONCRETE, Ornamental
Concrete and creative architecture. W: L. Woollett. il Eng & Contr (Bldgs) 60:1366-8 D 26 '23
Demonstration in making trim stone and ornamental concrete. R. F. Havlik. il Am Concrete Inst Pro 20:250-8 '24
Exterior finish, California palace of the Legion of honor. E. F. Halloran. il Eng & Contr (Bldgs) 63:399-402 F 25 '25
Molds for ornamental concrete work. F. Jay. diags Bldg Age 46:78-9 Jl '24
Successful advertising methods with ornamental concrete. W. H. Parker. il Concrete 27:14-15 Jl '25

See also Concrete brick; Statues, Concrete

CONCRETE, Porous
Expanded concrete. Concrete 27:30 Jl '25

CONCRETE, Reinforced
Le bardage des pieux en béton armé. Conte. Génie Civil 83:563-5 D 8 '23
Le battage de pieux inclinés en béton armé; abstract. Tellegen. diag Génie Civil 86:547 My 30 '25
Bond between concrete and steel. D. A. Abrams. Ry Age 79:29 Jl 4 '25; Same. Eng N 95:66 Jl 9 '25
Bremerton navy yard pier built of precast concrete. W. F. Way. il diags Eng N 92: 436-40 Mr 13 '24
British concrete cottages; R.C.C. system. il Concrete 26:70 F '25
Building a high reservoir wall of reinforced concrete. il diags plan Eng N 94:590-4 Ap 9 '25
Catechism of central station gas engineering in the United States. Am Gas J 123:33-4 Jl 11 '25
Centenary of Portland cement. J. M. Oxley. il diags Can Eng 47:459-63 O 28 '24
Les ciments spéciaux et l'avenir du béton armé. H: Lossier. Génie Civil 85:434-5 N 8 '24
Coating reinforcing bars. Concrete 26:216 Je '25

CONCRETE, Reinforced—*Continued*
Concrete pit structure subjected to diverse stresses; provides watertight foundation and inclosure for rock crusher. A. E. Wynn. il diags Eng N 95:762-3 N 5 '25
Constructing reinforced concrete foundations of Delaware river bridge anchorages. C: Carswell. il diags plans Concrete 24:103-10 Mr '24
Les déformations du béton armé soumis à l'extension. H: Lossier. diags Génie Civil 84:445-7 My 10 '24
Design of reinforced-concrete bins for crushed stone plant. J. M. Taggart. il diag Eng N 94:356-7 F 26 '25
Eisenbeton-nomogramme ohne logarithmische teilungen. F. Kann. Zeit Ver Deutsch Ing 69:851-4 Je 20 '25
How to correct and prevent corrosion of steel. T. A. Smith. il diags Concrete 25: 79-81 S '24; Excerpts. Eng N 93:879-80 N 27 '24
Inventor of reinforced concrete. W. H. Thorpe. il diag Engineering 119:678 My 29 '25
Novel structural details in temple building. E. J. Potter. diags Eng N 92:760-1 My 1 '24
Pittsburgh stadium frame part concrete and part steel. il plans Eng N 95:222-4 Ag 6 '25
Reinforced-concrete architecture these past twenty years. A. Kahn. il Am Concrete Inst Pro 20:106-21 '24; Same cond. Concrete 24: 128-34 Ap '24
Reinforced-concrete beams in bending and shear, by Oscar Faber. Review, by T. D. Mylrea. Eng N 94:491-2 Mr 19 '25; Review. Engineering 120:21 Jl 3 '25
Reinforced concrete structure resists wreckers' efforts. il Concrete 24:73-4 F '24
Should reinforcement embedment vary with size of bar? A. S. Woodle, jr. diag Eng N 92:1092-3 Je 26 '24; Same. Concrete 25:84-5 S '24; Discussion. Eng N 93:114 Jl 17 '24
Simple examples of reinforced concrete design. O. Faber. 85p Oxford '24; Review. Engineering 119:376-7 Mr 27 '25
Strengthening cast iron bridge with concrete. diags Concrete 26:207 Je '25; Same. Eng & Contr (Bldgs) 64:187-8 Jl 22 '25
Use of steel reinforcing grows. J. F. Curley. il Iron Tr R 75:795-7 S 25 '24
Using trolley wire for reinforcing. G. H. McKelway. Concrete 24:151 Ap '24

See also Concrete; Concrete construction; Concrete slabs; Gas holders, Concrete; Retaining walls, Concrete; Safes, Concrete; Steel, Reinforcing

Protection

Shall anything be added to Portland cement? M. Toch. il Am Concrete Inst Pro 21:134-43 '25; Abstract. Concrete 26:96-7 Mr '25; Discussion. Am Concrete Inst Pro 21:144-7 '25

Specifications

Criticism of the joint committee concrete column formulas. J. Feld. Eng N 95:477-8 S 17 '25
Discussion of the report of the Joint committee on standard specifications for concrete and reinforced concrete submitted to constituent organizations, August 14, 1924. Boston Soc C E J 12:63-88 F '25
High points of the new joint committee report on concrete. N. M. Stineman. Eng & Contr (Bldgs) 63:1149-53 My 27 '25; Same. Munic & Co Eng 68:223-7 My '25
Standard specifications for concrete and reinforced concrete; submitted by the joint committee. Am Soc C E Pro 50:1161-1285 O '24; Same, without appendices 2-15. Am Soc T M Pro 24 pt 1:303-85 '24; Same. Am Concrete Inst Pro 21:339-413 '25; Discussion. Am Soc C E Pro 51:1485-1537 S '25; Am Concrete Inst Pro 21:414-25 '25

Standards

Preliminary draft of proposed standard building regulations for the use of reinforced concrete. Am Concrete Inst Pro 21:427-60; Discussion. 461-9 '25

Tables, calculations, etc.

See Concrete construction—Tables, calculations, etc.

Testing

Cinder concrete units fire and water test. A. H. Beyer. il Concrete 24:25-7 Ja '24
Concrete beams. Concrete 27:50 Ag '25
Test of bond resistance in reinforced-concrete beams. W. A. Slater. diags Eng N 94:1050-3 Je 25 '25

CONCRETE arches. See Arches, Concrete

CONCRETE barges. See Barges, Concrete

CONCRETE bins. See Bins, Concrete

CONCRETE blocks
Architect's view of concrete block. H. J. Rotier. Concrete 24:170 Ap '24
Block-work in Britain—the old familiar story repeated across the water. C: Marques. Concrete 25:83-4 S '24
Building codes and their relation to the concrete products industry. W: F. Lockhardt. Am Concrete Inst Pro 20:221-36 '24
Built of concrete block. A. J. R. Curtis. il Bldg Age 46:82 F '24
Cinder building blocks. C. H. Thomas. il plans Bldg Age 46:92-3 Mr '24
Cinder concrete blocks in residence construction. il Concrete 27:27-9 S '25
Concrete block and clay brick compared. Eng & Contr (Bldgs) 63:886-7 Ap 24 '25
Concrete block building in England. il diags Concrete 24:203-5 My '24
Concrete masonry for receiving vaults. C: F. Dingman. il Concrete 25:99 S '24
Concrete products in 20 years. R. F. Havlik. Concrete 24:195-7 My '24; Same, with chart. Am Concrete Inst Pro 20:145-56 '24
Concrete with native stone. il Concrete 26:52-3 F '25
Cost of laying concrete blocks. A. J. R. Curtis. Concrete 23:239-40 D '23
Development of cinder concrete building units. H. Whipple. Concrete 24:226-32+ Je '24
Improving and expanding the concrete block business. Concrete 23:230-3 D '23
Long, light concrete masonry units. il Concrete 27:45 S '25; Same. Eng & Contr (Bldgs) 64:951-2 O 28 '25
New concrete block saves on skilled labor. il Bldg Age 47:103 Ag '25
New steel pallets worth attention. il Concrete 27:44 N '25
Precast concrete blocks strengthen road joint intersections. il Eng N 95:28 Jl 2 '25
Some provisions of Cincinnati's new concrete block ordinance. Eng & Contr (Bldgs) 61: 1397 Je 25 '24
State control of concrete building blocks in Wisconsin. Eng N 92:777 My 1 '24
Strength of sand-cement block with more water. Concrete 25:234 D '24
What shall it be—concrete block, brick or tile? W: F. Lockhardt. Concrete 24:239-41 Je '24
Would regulate use of concrete blocks. Can Eng 48:356 Mr 31 '25

Cost

Light weight structural tile. Concrete 25: 90-1 S '24

Manufacture

Blocks for jetties made without molds. E. A. Bethel. il Concrete 25:59-60 Ag '24; Same abr. Eng & Contr (W W) 61:1321-2 Je 11 '24
Concrete block-making press at the Public works exhibition. il diags Engineering 116: 676-7 N 30 '23
Crushed brick makes good concrete block. Concrete 25:91-2 S '24
Investigation of the effect of various methods of curing concrete building block. Am Concrete Inst Pro 21:498-512 '25
New block plant idea. il Concrete 27:36-9 O '25
Quantity production in George H. Krier's block plant. G: H. Krier. il diags plan Concrete 24:188-93 My '24

CONCRETE blocks—Manufacture—*Continued*
Sands in molds gives attractive finish to precast concrete blocks. il Eng N 94:528 Mr 26 '25
Slag and coke breeze for block aggregate. Concrete 26:143-4 Ap '25
Three-shift block plant. diag Concrete 26: 140-1 Ap '25

Specifications

Report of committee P-1, on standard building units. Am Concrete Inst Pro 21:597-603 '25
Tentative standard specifications for concrete building block and concrete building tile. Am Concrete Inst Pro 20:663-5 '24

Standards

Concrete blocks, bricks and tiles standardized in size. Eng N 93:728 O 30 '24

Testing

Cinder block efficiency in pier tests. il Concrete 25:35-6 Jl '24
Fire demonstration of concrete block house. il Concrete 25:197-8 N '24
Fire resistance of concrete block. Concrete 24:119-20 Mr '24
Fire resistance of concrete building units. Am Concrete Inst Pro 21:528-36 '25
Heavy test loads on hollow cinder block floor slabs cause slight permanent deflection. il diags Concrete 24:135-7 Ap '24
New type of pre-cast concrete construction. F. M. McCullough. diags Eng & Contr (Bldgs) 60:175-8 Jl 25 '23; Same. Can Eng 45:467-9 N 6 '23
Reading fire test of cinder block. il Concrete 25:102 S '24
Report of committee P-5, on fire resistance of concrete building units. Am Concrete Inst Pro 20:580-99 '24; Conclusion. Concrete 24: 119-20 Mr '24; Discussion. Am Concrete Inst Pro 20:600-2 '24

CONCRETE breakwaters. See Breakwaters, Concrete

CONCRETE brick
Concrete brick and roof tile in China. P. J. Hawkins. il Concrete 24:101-2 Mr '24
Concrete brick facing and trim on Kingston, Pa., school. il Concrete 26:123 Ap '25
What is a good concrete brick, and what is it made of? Concrete 24:209-10 My '24
What shall it be—concrete block, brick or tile? W: F. Lockhardt. Concrete 24:239-41 Je '24

Manufacture

Economy in handling materials in brick manufacture—Baltimore plant. C: B. Bryant. il diag Concrete 24:97-100 Mr '24
Largest concrete brick plant in the world. C. M. Chapman. il diags Concrete 25:65-9 Ag '24
Making brick from slag concrete. E. C. Ireland. Iron Tr R 75:1159-60 O 30 '24; Same cond. Iron Age 114:1131+ O 30 '24

Specifications

Standard specifications for concrete brick. Am Concrete Inst Pro 21:604-5 '25
Tentative standard specifications for concrete brick. Am Concrete Inst Pro 20:666-7 '24

CONCRETE buildings
Portland cement association to build own home. il Concrete 27:30 S '25; Same. Eng & Contr (Bldgs) 64:465-6 Ag 26 '25
Tentative standard recommended practice for treatment of exterior surfaces of industrial reinforced-concrete buildings. Am Concrete Inst Pro 21:564-72; Discussion. 573 '25
Wiring in concrete buildings without rigid conduits. il Concrete 26:193-4 Je '25

See also Concrete construction; Concrete houses; Silos, Concrete; Warehouses, Concrete

Repair and reconstruction

Guncrete restores damaged building. il Concrete 26:25-6 Ja '25; Same. Eng N 94:288 F 12 '25; Same. Eng & Contr (Bldgs) 63:427-8 F 25 '25

CONCRETE cars. See Freight cars, Concrete
CONCRETE catch basins. See Catch basins, Concrete
CONCRETE conduits. See Conduits, Concrete
CONCRETE construction
Alumina cement in factory construction. E. L. Heidenreich. il Concrete 26:202 Je '25
Bedeutung des eisenbetons für die bauten der elektrizitätswerke. il Elektrotech Zeit 46:699-700 My 7 '25
Bell-base cylinder piers for a heavy warehouse. R. H. Chambers. il diags plans Eng N 92:287-9 F 14 '24
British progress with concrete in 1924. A. C. Blackall. il Concrete 27:42-3 Ag '25
Buffalo's new filtration plant. G: C. Andrews. il Pub Works 55:304-8 O '24
Building the Nebraska university concrete stadium. il diags Eng N 93:498-500 S 25 '24
Chicago's new produce market: buildings—equipment. il plans Eng N 95:136-9 Jl 23 '25
City forces build sewage treatment works. E. R. Perry. il diags map plan Eng N 91:832-7 N 22 '23
Concrete block building in England. il diags Concrete 24:203-5 My '24
Concrete buildings for industrial plants. J. F. Springer. il Gas Age 54:639-41 N 1 '24
Concrete-built lumber city. il Concrete 26: 139-40 Ap '25
Concrete construction in Piney Woods school. il Concrete 23:197-8 N '23
Concrete construction of Atlanta-Biltmore hotel. Arch & Bldg 56:54-5 Je '24; Same. Eng & Contr (Bldgs) 62:214-15 Jl 23 '24
Concrete house construction. Can Eng 49:212 Ag 11 '25
Concrete in building codes. Concrete 25:230-1 D '24
Concrete in industrial buildings. W. E. Hart. il Management & Adm 10:29-32 Jl '25
Concrete mattress foundations; how they were used at new engine terminal at Sharpsburg, Pa. il diag Eng & Contr (G C) 63:831-2 Ap 17 '25
Concrete mixtures under field conditions. T. P. Watson. il Am Concrete Inst Pro 21:31-43 '25; Same cond. Ry R 76:845-50 My 9 '25; Same cond. Eng & Contr (G C) 64:419-25 Ag 19 '25; Discussion. Am Concrete Inst Pro 21: 44-9 '25
Concrete purifiers for the Glasgow gas works. J. F. Springer. il Gas Age 54:701-2+ N 15 '24
Concrete used extensively in rebuilding Astoria, Oregon. il Concrete 26:178-81 My '25
Concrete used on tall apartments. W: F. Zabriskie. il diags plans Concrete 27:27-31 N '25
Concreting under restricted conditions. W: W. Hay. il plan Concrete 25:169-71 N '24; Same. Eng & Contr (Bldgs) 63:1145-8 My 27 '25
Construction methods and plant for substructure of Barclay-Vesey building, New York. F. W. Skinner. il plan Concrete 25: 19-22 Jl '24
Construction methods on double-deck street, Chicago. il diag plans Eng N 95:662-5 O 22 '25
Construction notes on Texas university stadium. A. T. Granger. il diags plan Eng N 95:557-8 O 1 '25
Construction of a reinforced concrete workshop building at Elsinore. il diags Engineering 116:547-51, 562 N 2 '23
Construction of concrete stadium; Ross-Ade stadium at Purdue university. W. K. Hatt. diags Am Concrete Inst Pro 21:113-23; Discussion. 124-5 '25
Construction of dry dock at St John, N.B. E. G. Cameron. il diags plan Can Eng 45: 521-8 N 27 '23
Construction superintendent's question box; discussion at American concrete institute convention. Concrete 24:93-5 Mr '24
Contractors handy book—on everyday concrete jobs. 112p Lehigh Portland cement co., Chicago '25

CONCRETE construction—*Continued*
Control of concrete for the University of Illinois stadium. W. A. Slater and R. L. Brown. il plan Am Concrete Inst Pro 20:403-19 '24
Cork lined monolithic concrete houses. H. Whipple. il diags plan Concrete 27:15-20 N '25
Design and construction of a gasholder tank at Burnley. A. D. Young. il Gas J (Lond) 169:344-8 F 11 '25
Efficient concreting regains lost time at St Paul union station. il Eng N 92:540-1 Mr 27 '24
England's first reinforced concrete engine-house. D. R. Lamb. il plans Ry Age 76:337-40 F 2 '24
English house system of piers and panels. il diag Concrete 24:69-70 F '24
L'esthétique dans les constructions en béton armé. L. Petit. Génie Civil 83:585-6 D 15 '23
Explosion in a concrete building under construction. il Eng N 92:987 Je 5 '24
Family mausoleum, Asheville, N.C. diags plan Concrete 23:198 N '23
Features of design in 1,000-foot outdoor swimming pool. il diags Eng N 94:434-6 Mr 12 '25
Fire-gutted building reclaimed with concrete. G. Triplett. il Concrete 25:82-3 S '24
First concrete switch structure at Crawford. il Power Pl Eng 27:1191 D 1 '23
Fortune theatre—a London surface-treated concrete facade. il Concrete 25:96 S '24
Foundations for steam turbines. W. Slader. il diags Power Pl Eng 29:232-5 F 15 '25
Foundations repaired with precast units; supporting structure of a steam plant while in operation. C. P. Dunn. il diag Concrete 27:3-5 Jl '25
Girls' home built of concrete tile. il plans Bldg Age 46:90-1 My '24
Grandes églises voûtées en béton armé. V. Sabouret. Génie Civil 84:18 Ja 5 '24
Grenoble white coal exposition uses concrete construction. il Eng N 95:583 O 8 '25
Handling materials for substructure of $25,000,000 power house. F. W. Skinner. il diags Concrete 26:118-23 Ap '25
Here is rock face made in sand molds. M. Sommers. il Concrete 26:64 F '25
Hollow concrete bridge piers built like chimneys for Dix river bridge. il Eng N 93:757 N 6 '24; Concrete 25:236 D '24; Discussion. Eng N 93:924; 94:164-5 D 4 '24, Ja 22 '25
House built by Olmsted system. il Concrete 24:75 F '24
Housing a blimp in reinforced concrete. F: M. Delano, jr. il diags Concrete 24:23-5 Ja '24
Housing a dirigible in a reinforced concrete hangar. il Am Arch 126:451-4 N 5 '24
How structures withstood the Japanese earthquake and fire. H. M. Hadley. il Am Concrete Inst Pro 20:188-209 '24
How to put flexibility into all-concrete factory buildings. M. G. Farrell. il Factory 32: 173-4+ F '24
How we combined reinforced concrete and mill construction. K. D. Hamilton. il Factory 31:608-10+ N '23; Same cond. Concrete 23:225-7 D '23
Inundation used on Wacker drive, Chicago. il Concrete 27:17-21 S '25
La Gabelle hydro-electro development. S. Svenningson and J. A. McCrory. il diag Can Eng 49:161-4 Jl 28 '25
Large concrete flat buildings erected in thirteen weeks. il diag plan Eng N 92:531-2 Mr 27 '24
Lessons of the Japanese earthquake; types of construction which survived and recommendations for reconstruction. il Sci Am 130:100 F '24
Lessons to be learned from recent earthquakes. il Concrete 27:15-17 O '25
Massive foundations in soft ground: New York Edison company building. il Pub Works 56:75-8 Mr '25
Massive wet soil foundations for a great steam-electric power house. F. W. Skinner. il Munic & Co Eng 69:77-80 Ag '25
Medical arts building, Dallas. W. J. Knight. il diags plans Arch Forum 39:285-90 D '23; Same. Eng & Contr (Bldgs) 61:177-84 Ja 23 '24
Near East relief orphans become concrete workers. il Concrete 25:198-9 N '24
New competition and your building. H. C. Campbell. il Ind Management 67:356-62 Je '24
Novel construction of concrete foundations for structures. W. G. Kirchoffer. Munic & Co Eng 67:289-91 D '24
Office and exhibition building for furniture industry. il diags plan Eng N 93:1033-7 D 25 '24
Pennsylvania completes new freight station. il diags plan Ry Age 76:875-9 Ap 5 '24
Plain and reinforced concrete construction. H. A. Saurbrey. 96p McKay '25
Popular mechanics' concrete handbook no. 1. 96p Pop. mech. press, Chicago '23
Pre-cast concrete used in engine terminal. il diag Ry Age 77:1025-7 D 6 '24
Precast risers used in building reinforced concrete bleachers. D. G. Moon. diag Eng N 95:602 O 8 '25
Proposed reinforced concrete construction over streets to relieve traffic congestion. C: Hurst. diag Concrete 27:39 Ag '25
Question box for construction superintendents. Am Concrete Inst Pro 20:523-45 '24
Question box on reinforced-concrete building construction. Am Concrete Inst Pro 21: 252-63 '25
Reinforced concrete and masonry structures. G: A. Hool and W. S. Kinne. 722p McGraw-Hill '24
Reinforced-concrete architecture these past twenty years. A. Kahn. il Am Concrete Inst Pro 20:106-21 '24; Same cond. Concrete 24:128-34 Ap '24
Reinforced concrete proved its efficiency in Japan. T. Okubo. il Concrete 23:222-4+ D '23
Reinforced-concrete wood-pulp paper mill in Oregon. E. L. Williams. il diags Eng N 94: 808-11 My 14 '25
Reliance terminal elevator, Fort William. D. V. Whitehead. il Can Eng 48:433-4 Ap 28 '25
Report on the use of precast concrete units. Ry Age 79:767-8 O 24 '25
Resumé of the building code situation as to concrete units. Eng & Contr (Bldgs) 63: 423-6 F 25 '25
Revolutionary effect of concrete on architecture. B. Pite. Eng & Contr (Bldgs) 64:214-16 Jl 22 '25
Rigid concrete frames for long spans. il Concrete 26:201-2 Je '25
Rogers Park track elevation, C.M. & St P. Ry. T. H. Strate. il diags plans Ry R 74: 140-5 Ja 19 '24
Saving money by leaving concrete floor-beams as ceiling. R. D. Snodgrass. il Eng N 93:630-1 O 16 '24
Steel in reinforced concrete work. H. J. Carswell. il Iron Age 116:1097-9 O 22 '25
Story-pole; device for insuring correct construction levels. diag Eng & Contr (Bldgs) 63:880 Ap 24 '25
Structural alterations in a concrete building. S. E. Berkenblit. il diags Eng N 92:203-5 Ja 31 '24
Substructure construction methods; Buffalo filter plant. il diag map plan Eng N 94: 358-62 F 26 '25
Substructure of New York Edison co.'s power house. F. W. Skinner. il Eng & Contr (G C) 63:794-801 Ap 17 '25
Superior Portland cement company occupies new office. il diag plans Concrete 23:sup77-9 N '23
Tall concrete building in Texas. il Concrete 27:48-9 O '25
Ten-story reinforced concrete service building erected one story per week. F. W. Skinner. il Concrete 24:220-5 Je '24
Use of composite columns in concrete buildings. J. W. Parker. diags Arch Forum 41: 77-80 Ag '24

CONCRETE construction—*Continued*

Use of reinforced concrete in gas holder tanks. J. F. Springer. il Gas Age 55:219-20+, 445-6+ F 14, Mr 28 '25

Wide use of concrete in conservancy project, Pueblo, Colorado. E. C. McCain. il diags Concrete 27:18-21 Ag '25

Working plans for building economical concrete drainage pit. P. Truesdell. diags Nat Pet N 16:63-4+ Je 11 '24

See also Arches, Concrete; Barges, Concrete; Bridges, Concrete; Bumping posts, Concrete; Chimneys, Concrete; Coal bins, Concrete; Column footings, Concrete; Columns, Concrete; Concrete—Finishing; Concrete, Reinforced; Concrete blocks; Concrete brick; Concrete buildings—Repair and reconstruction; Concrete houses; Concrete lining; Concrete mixing; Concrete piling; Concrete placing; Concrete plants; Concrete slabs; Concrete staves; Concrete stone; Concrete tablets; Concreting; Cooling towers, Concrete; Cribs, Concrete; Culverts, Concrete; Curbs; Dams, Concrete; Fireproof construction; Floors, Concrete; Flumes, Concrete; Freight cars, Concrete; Gas holders, Concrete; Monuments, Concrete; Piers, Concrete; Poles, Concrete; Reservoirs, Concrete; Retaining walls, Concrete; Roofs, Concrete; Safes, Concrete; Sea walls, Concrete; Septic tanks, Concrete; Sewers, Concrete; Sidewalks, Concrete; Silos, Concrete; Stairways, Concrete; Standpipes, Concrete; Storehouses, Concrete; Swimming pools, Concrete; Tanks, Concrete; Towers, Concrete; Trestles, Concrete; Vaults, Concrete; Walls, Concrete; Warehouses, Concrete; Water tanks, Concrete; Water towers, Concrete; Wharves, Concrete

Accounting

Unit labor costs are easily found. A. J. Peel. Concrete 27:32-4 N '25

Bibliography

Reinforced concrete grandstands and stadia. 5p Engineering societies library, 29 W. 39th st., New York '25 (typew)

Cost

Cost data for concrete construction job. Concrete 27:38 S '25

Placing concrete in grandstands and stadia. diags plans Concrete 24:159-63 Ap '24

Reinforced concrete most economical in school construction. diags plans Concrete 23:132, 135-6 O '23; Same. Eng & Contr (Bldgs) 60:1345-8 D 26 '23

Trend of costs for concrete buildings 1914 to 1923. Concrete 23:244 D '23

Design

American news building, New York city. Arch & Bldg 57:25-6+, pl 63-9 Mr '25; Same. Eng & Contr (Bldgs) 63:1137-44 My 27 '25

Architect and engineer unite in design of hotel. G. H. Lippert. Eng N 92:813 My 8 '24

Building a high reservoir wall of reinforced concrete. il diags plan Eng N 94:590-4 Ap 9 '25

Calcul rapide des pièces en béton armé à compression et flexion composées. G. Prudon. diags Génie Civil 86:281-4 Mr 21 '25

Cantilever floor construction for concrete buildings. il diag Eng N 94:845-6 My 21 '25; Discussion. 94:1072; 95:318 Je 25, Ag 20 '25

Concrete pit structure subjected to diverse stresses; provides watertight foundation and inclosure for rock crusher. A. E. Wynn. il diags Eng N 95:762-3 N 5 '25

Design of symmetrical concrete arches. C: S. Whitney. diags Am Soc C E Pro 50:1327-1425 N '24

Discussion of the report of the Joint committee on standard specifications for concrete and reinforced concrete submitted to constituent organizations, August 14, 1924. Boston Soc C E J 12:63-88 F '25

Eisenbeton-nomogramme ohne logarithmische teilungen. F. Kann. Zeit Ver Deutsch Ing 69:851-4 Je 20 '25

English treatment of continuous beam problems. F. W. Davey. Eng & Contr (Bldgs) 64:206-8 Jl 22 '25

Highest concrete building; 274 ft. above sidewalk; United Brethren building at Dayton, Ohio. il plans Eng N 93:177-80 Jl 31 '24

Long span concrete construction. A. B. Villadsen. il diag Concrete 24:233-4 Je '24

Mode de compensation du retrait dans les voûtes en béton. E. Baticle. Génie Civil 83:546-7 D 1 '23

New type pre-cast concrete construction. F. M. McCullough. diags Eng & Contr (Bldgs) 60:175-8 Jl 25 '23; Same. Can Eng 45:467-9 N 6 '23

Preliminary draft of proposed standard building regulations for the use of reinforced concrete. Am Concrete Inst Pro 21: 427-60; Discussion. 461-9 '25

Recommended practice for the design and construction of concrete dwelling houses. Am Concrete Inst Pro 21:538-50; Discussion. 551-4 '25

Reinforced concrete design. G. P. Manning. 484p Longmans '24

Report of the joint committee on standard specifications for concrete and reinforced concrete; design. Am Soc T M Pro 24 pt 1: 338-66 '24; Same. Am Soc C E Pro 50:1187-1211 O '24; Same. Am Concrete Inst Pro 21:366-94; Discussion. 419-25 '25

Shortcuts for solving problems in concrete design; combined axial and bending stress. R. P. V. Marquardsen. diags Eng & Contr (Bldgs) 60:1327-30; 61:440-6 D 26 '23, F 27 '24

Structural design of the Davenport, Iowa, Masonic temple. il diags Am Arch 127:289-93 Mr 25 '25

See also Arches, Concrete

Estimates

Estimating and cost keeping for reinforced concrete building construction. Concrete 26: 169-71 My '25

Tentative standard specification on measurement of and estimating concrete—standard methods for the measurement of concrete work. Am Concrete Inst Pro 21:576-82 '25

See also Concrete construction—Tables, calculations, etc.

Expansion joints

Expansion joint in viaduct floor carried down into column. il diag plans Eng N 94:285 F 12 '25

Report of committee E-8, on expansion joints in concrete construction. diags Am Concrete Inst Pro 20:619-32 '24; 21:321-7 '25

Failures

Behavior of concrete exposed to atmospheric conditions. P. J. Freeman. il Am Soc T M Pro 23 pt 2:186-90 '23

Failure of a concrete reservoir of curious design. J. C. Pinney. il diag plan Eng N 92: 282-3 F 14 '24; Discussion. C: S. Whitney. Eng N 92:820-1 My 8 '24

Fundamental cause of the disintegration of concrete. A. H. White. il Concrete 26:157-61 My '25; Same. Munic & Co Eng 69:27-33 Jl '25; Same. Can Eng 40:439-41 O 6 '25

Further data on Benton Harbor concrete building failure. il Eng N 92:556-9 Ap 3 '24

Prompt column repair prevents building collapse. il Eng N 93:950-2 D 11 '24

Reinforced-concrete hotel under construction fails by progressive collapse. T. L. Condron. il plan Eng N 92:239-42 F 7 '24; Discussion. R. H. Towner. 92:584 Ap 3 '24

Tracer's mistake caused concrete wall break at Sacramento. Eng N 93:375 S 4 '24; Discussion. E. W. McKee. 94:290 F 12 '25

Fire resistance

Cinder concrete units fire and water test. A. H. Beyer. il Concrete 24:25-7 Ja '24

Effect of fire exposure upon hollow concrete building units. Safety Eng 49:254 Je '25

CONCRETE construction—Fire resistance —*Continued*
Fire demonstration of concrete block house. il Concrete 25:197-8 N '24
Fire resistance of concrete building units. Am Concrete Inst Pro 21:528-36 '25
Fire resistance of concrete columns. W. A. Hull and S. H. Ingberg. il diags U S Bur Stand Tech Pa 272:635-708 '25; Summary. Am Arch 127:559-60 Je 17 '25; Same. Can Eng 49:213-15 Ag 11 '25; Abstract. J Fr Inst 200:379-81 S '25
Reading fire test of cinder block. il Concrete 25:102 S '24; Bldg Age 46:130 D '24
Report of committee E-4 fire resistance of concrete. il Am Concrete Inst Pro 21:284-317 [bibliog. p. 300-17]; Discussion. 318-20 '25
Report of committee P-5, on fire resistance of concrete building units. Am Concrete Inst Pro 20:580-99 '24; Conclusion. Concrete 24:119-20 Mr '24; Discussion. Am Concrete Inst Pro 20:600-2 '24

Forms

Adjustable shores against 4 x 4 wood shores. E. C. Harding. Am Concrete Inst Pro 21: 95-6 '25; Same. Concrete 26:127 Ap '25; Discussion. Am Concrete Inst Pro 21:97-9, 106 '25
Avoiding warp in forms. Concrete 24:212 My '24; Same. Eng & Contr (Bldgs) 62:218 Jl 23 '24
Cantilevered form work for a reinforced concrete lintel. R. M. Singer. il diags Eng & Contr (Bldgs) 62:1151-2 N 26 '24
Column forms. L. H. Usilton. Am Concrete Inst Pro 21:91-4 '25; Same. Concrete 26:125-7 Ap '25
Les dépenses de coffrage dans les constructions en béton armé. P. Kandaouroff. Génie Civil 86:46-7 Ja 10 '25
Economy in concrete forms. E. F. Rockwood. Arch Forum 42:31-2 Ja '25
Forms for reinforcing concrete building construction. J. A. Turner. diags Am Concrete Inst Pro 21:85-90 '25; Same. Concrete 26: 124-5 Ap '25
Formwork for large sewers on short-radius curves. J. C. Keeley. il diag Eng N 94:1068 Je 25 '25
Formwork for short-radius curve. F. E. Harley. diag Eng N 93:880 N 27 '24
Formwork for sloping concrete roof. diag Eng N 93:273 Ag 14 '24
Hutchins system of form panels. il Concrete 26:103 Mr '25
Interesting form details. diags Concrete 26: 95-6 Mr '25
Movable form for circular bins. N. M. Kaplan. il Eng N 92:1110 Je 26 '24
Moving forms used on framed concrete building. J. O. B. Coulling. il diag plan Eng N 94:933-6 Je 4 '25
New form for sidewalks, curbs, etc. il Eng & Contr (R & S) 63:1235 Je 3 '25
Standardized formwork for reinforced-concrete lintels. R. M. Singer. il diags Eng N 94:904-5 My 28 '25
Taking the hand saw away from the form carpenters. N. L. Protheroe. il diags Con-
Steel draft-tube liners used as concrete forms. il Eng N 95:264 Ag 13 '25
crete 24:15-17 Ja '24
Unusual forms for concrete paper plant. D. S. Howman. il diag Eng N 92:1023 Je 12 '24
Wooden forms for concrete joists. il diag Eng & Contr (Bldgs) 64:687-8 S 23 '25

See also Roads, Concrete—Forms

Inspection

Instructions to masonry inspectors on C.C.C. & St L. Ry. J. B. Hunley. Eng & Contr (Bldgs) 61:1169-72 My 28 '24

Plum stones

Use of plum stones in concrete. Eng & Contr (G C) 64:433-4 Ag 19 '25

Rapid construction

Add story to ramp garage in 4½ days. Concrete 27:31-2 S '25
Concrete balcony finished in quick time. il Concrete 27:13 Jl '25
Rapid concreting of apartment building at Chicago. il Eng N 95:102-3 Jl 16 '25

Repair

Structural surgery. il diags Am Arch 128: 367-72 O 20 '25

Safety devices and measures

Safety for concrete workers on 26-story building. il Concrete 26:164-5 My '25

Specifications

Criticism of the joint committee concrete column formulas. J. Feld. Eng N 95:477-8 S 17 '25

See also Bridges, Concrete—Specifications

Tables, calculations, etc.

Calcul des hourdis des tabliers d'ouvrages d'art en béton armé. F. Chaudy. diags Génie Civil 86:531-3 My 30 '25
Equivalent spacing of reinforcing bars. table Arch & Bldg 56:70 Jl '24
Perfectionnements de la règle logarithmique, système Rieger, pour le calcul des constructions en béton armé. Génie Civil 84:329-30 Ap 5 '24

See also Concrete construction—Design

CONCRETE construction, Subaqueous
Concrete jacketed piles on the Pacific coast. F. G. White. Eng N 95:420-1 S 10 '25
Method of constructing Spike Rock Light. Eng & Contr (G C) 64:179 Jl 15 '25
Notes on laitance. R. M. Miller. il diags Am Concrete Inst Pro 21:68-79 '25; Same: Ry R 77:527-30 O 3 '25; Same cond. Concrete 26: 97-8 Mr '25; Same cond. Eng & Contr (G C) 64:887-92 O 21 '25; Discussion. Am Concrete Inst Pro 21:80-4 '25
Placing concrete in water. J. P. McMakin. Eng & Contr (R & S) 63:487-8 Mr 4 '25; Abstract. Eng N 93:434 S 11 '24
Sinking pneumatic and open caisson foundations for Philadelphia-Camden bridge. C: Carswell. il diags Eng N 94:920-6 Je 4 '25

See also Breakwaters, Concrete; Bridges —Foundations and piers; Bridges, Concrete; Concrete piling; Dams, Concrete; Piers, Concrete; Sea walls, Concrete; Wharves, Concrete

CONCRETE construction in mines
Build everything of concrete is O'Gara policy. R. D. Brown. flow sheet il diags plans Coal Age 25:557-62 Ap 17 '24
Concreting a main hoisting shaft while mine continues in operation. J. W. Powell. diags plans Coal Age 25:612-13 Ap 24 '24
Ejected cement gives life and strength to mine structures. A. F. Brosky. Coal Age 24:955-6 D 27 '23
Lining a shaft with precast concrete. A. B. Dowell. il Coal Age 25:437 Mr 20 '24

CONCRETE construction in winter
Accelerators for concrete; lowering the freezing point in cold weather work. Concrete 24:33-4 Ja '24
Building a twelve-story concrete structure in zero weather; Chateau Lake Louise. il Ry Age 78:1651-2 Je 27 '25; Same. Eng & Contr (Bldgs) 64:193-4 Jl 22 '25
Building concrete structures in winter. il diag Can Eng 46:169-72 Ja 22 '24
Building construction in winter. C. D. Harrington. Can Eng 48:191-2 F 3 '25; Same. Eng & Contr (Bldgs) 64:703-6 S 23 '25
Canadian comment on winter concrete. C: Taylor. Eng & Contr (Bldgs) 62:901-2 O 22 '24
Canvas covers for winter protection. J. E. Buhl. diag Eng & Contr (Bldgs) 62:1195-6 N 26 '24; Same. Concrete 25:214-15 D '24; Excerpt. Eng N 93:966 D 11 '24
Cold weather concreting. J. L. Underhill. Can Eng 46:418 Ap 8 '24
Cold weather no bar to successful concrete construction. il Bldg Age 45:62-3 N '23
Concrete construction during winter months. Power Pl Eng 28:1058 O 15 '24

CONCRETE construction in winter—*Continued*
Concrete work done in very cold winter weather. M. A. Burbank. il diag Ry R 73:755-6 N 24 '23; Same. Eng & Contr (Ry) 60:1318 D 19 '23
Concrete work in cold weather. Can Eng 48: 444 Ap 28 '25
Concreting during cold weather. Can Eng 47: 232 Ag 12 '24
Concreting in freezing weather. E. F. Rockwood. Arch Forum 40:41-2 Ja '24
Construction in winter season. A. M. Bouillon. Eng & Contr (G C) 64:905-9 O 21 '25
Construction of C.P.R. hotel at Lake Louise. il Can Eng 49:243-4 Ag 25 '25
Costs and precautions in winter construction of concrete buildings. R. E. Egelhoff. il diag plans Concrete 25:211-14 D '24; Same. Eng & Contr (Bldgs) 62:1356-62 D 24 '24
Fast work is feature of Buffalo winter construction; 8-story reinforced-concrete and brick building. il plan Eng N 93:368-71 S 4 '24
14-story reinforced-concrete hotel built in winter months. il Eng N 91:986-7 D 13 '23
Further data on Benton Harbor concrete building failure. il Eng N 92:556-9 Ap 3 '24
Lesson in cold weather concreting. Eng N 92:555 Ap 3 '24
Method of constructing concrete dam in zero temperature. G: H. Kohl. plans Eng & Contr (W W) 62:364-7 Ag 13 '24
Pointers for cold weather work. Eng & Contr (Bldgs) 62:1395 D 24 '24
Pouring concrete in zero weather. C. N. Shanly. Can Eng 49:245-6 Ag 25 '25
Reinforced-concrete hotel under construction fails by progressive collapse. T. L. Condron. il plan Eng N 92:239-42 F 7 '24; Discussion. R. H. Towner. 92:584 Ap 3 '24
Reminiscences of winter construction in British Columbia. A. M. Bouillon. il Eng N 93: 1030-2 D 25 '24
Report on placing concrete in winter. Ry R 75:625-9 O 25 '24; Ry Age 77:753-5 O 25 '24
Specifications for winter concrete protection. Eng & Contr (Bldgs) 62:1167-8 N 26 '24; Same. Concrete 25:215 D '24
Winter building is practicable and profitable. J: W. Lowry, jr. Eng N 91:942 D 6 '23
Winter construction as the contractor regards it. C. S. Hill. il Eng N 93:632-5 O 16 '24
Winter construction costs less. W. J. Barney. Concrete 23:242-3 D '23
Winter hydroelectric plant construction in Minnesota. G: H. Herrold. il map Eng N 94: 230-2 F 5 '25
Winter reconstruction at the Spier Falls power plant. C. Voetsch. il diags plan Eng N 93:791-5 N 13 '24

CONCRETE cribbing. See Cribs, Concrete

CONCRETE culverts. See Culverts, Concrete

CONCRETE dams. See Dams, Concrete

CONCRETE floors. See Floors, Concrete

CONCRETE flumes. See Flumes, Concrete

CONCRETE gun
Lining Pit no. 3 tunnel using pneumatic concrete guns. il diags Eng N 95:128-32 Jl 23 '25

CONCRETE handling
Four-mile belt conveyor system; how fill and concrete are handled in the construction of the Wanaque dam. il Eng & Contr (G C) 63:841-3 Ap 17 '25
Gravity material supply cuts handling costs. il Eng N 93:420-2 S 11 '24
Handling concrete materials in the Swiss Alps. S. A. Nutter. il map plan Eng N 92:102-5 Ja 17 '24
Long conveyor belts distribute concrete on job. il Concrete 24:141-2 Ap '24
Mechanical equipment for handling concrete. A. W. Ransome. Am Concrete Inst Pro 20: 96-105 '24
Storing and handling of materials for concrete products. W: F. Lockhardt. diag Concrete 25:188-9 N '24
See also Gravel handling

CONCRETE houses
Australian concrete cottage. il diags Concrete 26:104 Mr '25
British concrete cottages; R.C.C. system. il Concrete 26:70 F '25
Building fireproof homes. P. Hueber. il diags Am Concrete Inst Pro 20:487-94 '24
Burnt child dreads the fire; concrete to replace wood. M. D. Morrill. il plans Concrete 24:64-6 F '24
Cement man and his architect, both build of concrete. il plans Concrete 26:56-7 F '25
Cinder concrete blocks in residence construction. il Concrete 27:27-9 S '25
Concrete block houses without interior plaster in England. il Eng & Contr (Bldgs) 62:209-10 Jl 23 '24
Concrete cottage to withstand earthquakes. F: Rings. plans Concrete 27:22-3 Ag '25
Concrete cottages, bungalows, and garages. A. Lakeman. 2d ed. 227p Concrete publications, ltd., London '24
Concrete houses in Holland. A. Keppler. il Concrete 27:50-1 S '25
Coral Gables, Florida, a new community, is all masonry and about 85 percent concrete. il Concrete 24:44-7 F '24
Cork lined monolithic concrete houses. H. Whipple. il diags plan Concrete 27:15-20 N '25
Cutting costs in building workers' homes. G. L. Carden. il plan Iron Age 113:1084-5 Ap 10 '24
English house system of piers and panels. il diag Concrete 24:69-70 F '24
Hollow concrete walls by Phillips system. il diags Concrete 26:135-6 Ap '25
House built by Olmsted system. il Concrete 24:75 F '24
Kent system of house construction. il diag Concrete 26:68-9 F '25
Light monolithic construction for dwellings. il diags Bldg Age 46:141-3 D '24
Mr Wilson builds fireproof houses with new F. D. Lambie system. F. F. Wilson. il Concrete 24:58-60 F '24
Oldest concrete house. il Concrete 25:60-1 Ag '24
Plans for concrete houses. 3d ed. 79p Portland cement assn., Chicago '25
Progress in permanent house construction. il plans Concrete 26:45-51 F '25
Recommended practice for the design and construction of concrete dwelling houses. Am Concrete Inst Pro 20:603-14; Discussion. 615-18 '24; 21:538-50; Discussion. 551-4 '25
Residence of M. J. Comerford, Ridley Park, Pa. il plans Arch & Bldg 57:Dwelling House ser 12-13 Je '25
Significant development of the Hueber monolithic houses at Syracuse. A. J. R. Curtis. il diags plans Concrete 24:51-4 F '24
Small homes of reinforced concrete. P. P. Suiter. il diag plans Bldg Age 46:72-3 Ja '24
Wanted, builders; the concrete masonry house today, the fireproof house tomorrow. H. Whipple. Concrete 24:41-3 F '24
See also Concrete construction; Floors, Concrete

CONCRETE lining
Building new sewers inside old brick sewers. F. W. Skinner. il diag Eng & Contr (W W) 63:93-5 Ja 14 '25
Concrete lining methods in the Skagit tunnel. il diag Eng N 93:700-1 O 30 '24
Design and construction of small, concrete-lined canals. W. E. Code. il diags Univ Ariz Agric Exp Sta Bul 97:1-37 S '23; Excerpt. Eng & Contr (W W) 61:1314-16 Je 11 '24; Summary. Eng N 93:59 Jl 10 '24
Lining canals. Pub Works 54:349 N '23
Lining North America's longest tunnel with concrete. il Concrete 26:162-3 My '25
Lining Pit no. 3 tunnel using pneumatic concrete guns. il diags Eng N 95:128-32 Jl 23 '25
Lining the Connaught tunnel, C. P. Ry. il Ry R 76:491-7 Mr 14 '25
Lining tunnels with concrete. J. E. Harding. diags Eng & Min J 119:891-2 My 30 '25

CONCRETE lining—*Continued*
Placing concrete lining in the Hetch Hetchy tunnels. W. F. Webb. il Eng N 94:350-3 F 26 '25
Rejuvenating brick sewers. Pub Works 56: 12-13 Ja '25
Rejuvenating old brick sewers rapidly and thoroughly. F. W. Skinner. il Munic & Co Eng 67:308-10 D '24
Safeguarding brick sewers; reinforced by concrete lining. il diags Concrete 26:22-5 Ja '25
Use of concrete for dams, tunnels, culverts and canals. A. P. Davis. il Am Concrete Inst Pro 20:89-95 '24

See also Cement gun; Concrete construction in mines; Concrete placing; Gunite

CONCRETE mixers
Aero mixer and its operation. Eng & Contr (Bldgs) 63:392 F 25 '25
Aero mixer tried in England. Eng & Contr (Bldgs) 62:703 S 24 '24
Batch boxes raised with skip in mixer-charging device. il Eng N 95:190-1 Jl 30 '25
Centrifugal principle embodied in concrete mixer design. il Eng N 92:509 Mr 20 '24
Concrete mixer operates on rails or pavement. il Elec Ry J 63:112-13 Ja 19 '24
Concrete paving units. W. W. Zass. il Concrete 26:189-91 Je '25
Construction equipment—past and present. il diag Eng N 92:828-30 My 8 '24
Economic waste of non-standard mixers. P. A. Koehring. Eng & Contr (R & S) 64:531-4 S 2 '25
Improved concrete mixer. il Manuf Rec 86: 96 S 25 '24
Jaeger 5 L, 1-sack mixer. il Eng & Contr (Equip R) 63:955 Ap 29 '25
Mixing plant on flat car supplies concrete for signal bases. il Eng N 94:405-6 Mr 5 '25
Mounted concrete mixer saves time and labor for contractor. il Eng N 91:853 N 22 '23
New type of concrete mixer mounted on truck invented by Charles Payne. diags Eng & Contr (Bldgs) 62:1393-4 D 24 '24
Plant layout for measuring bulk cement and aggregates by weight. C. D. Hale. il Eng N 93:1043-4 D 25 '24
Ransome 3½ S tilting mixer. il Eng & Contr (Equip R) 63:931 Ap 29 '25
Rex 14-S concrete mixer. il Can Eng 49:505 O 27 '25
Selecting a concrete mixer to fit the job. il Bldg Age 47:120-1 F '25
Smith 14-S 2-bag mixer. il Eng & Contr (Bldgs) 61:1411 Je 25 '24
Smith tilting mixers. il Eng & Contr (Equip R) 64:266-7 Jl 29 '25
Standard scale and supply corporation announce new narrow drum mixers. il Concrete 26:184 My '25

Standards
Standard concrete mixer plates. il Concrete 24:30 Ja '24
To make concrete mixer standards effective. S: Shafer. Eng N 92:382-3 F 28 '24

CONCRETE mixing
Abrams' water-cement ratio checked in Germany. V. P. Maun. Eng N 94:885 My 28 '25
Aggregates and water-cement ratios. Eng & Contr (Bldgs) 63:866-8 Ap 24 '25
Better concrete: water-cement ratio. D. H. Dixon. il Concrete 24:243-5 Je '24
Calcium chloride as an admixture in concrete. D. A. Abrams. Am Soc T M Pro 24 pt 2:781-834 [bibliog. p. 830-4] '24; Abstract. Concrete 26:99-101 Mr '25; Excerpt (Conclusions). Eng N 93:66-7 Jl 10 '24; Same. Am Arch 127:521 Je 3 '25; Discussion. Am Soc T M Pro 24 pt 2:835-40 '24
Concrete materials proportions. R. W. Crum. Can Eng 45:395 O 9 '23; Same. Eng & Contr (R & S) 60:961-2 N 7 '23
Concrete mixtures under field conditions. T. P. Watson. il Am Concrete Inst Pro 21:31-43 '25; Same cond. Ry R 76:845-50 My 9 '25; Same cond. Eng & Contr (G C) 64:419-25 Ag 19 '25; Discussion. Am Concrete Inst Pro 21:44-9 '25
Control of concrete for the University of Illinois stadium. W. A. Slater and R. L. Brown. il plan Am Concrete Inst Pro 20: 403-19 '24
Control of concrete mixing water. A. W. Munsell. il Eng N 94:404-5 Mr 5 '25
Disintegration of concrete. Can Eng 48:431 Ap 21 '25
Economic value of admixtures. J. C. Pearson and F. A. Hitchcock. diag Am Concrete Inst Pro 20:312-27 '24; Excerpts. Concrete 24:96 Mr '24; Eng N 92:450-1 Mr 13 '24; Discussion. Am Concrete Inst Pro 20:328-47 '24; Abstract. Can Eng 47:523-4 N 18 '24
Effect of excess water on concrete. il diag Can Eng 45:553-4 D 4 '23
Effect of hydrated lime and other powdered admixtures in concrete. D. A. Abrams. Concrete 27:51 Ag '25; Same. Munic & Co Eng 69:19-20 Jl '25
Effect of moisture in sands in proportioning concrete mixtures. R. R. Litehiser. Concrete 26:18-20 Ja '25
Field control of concrete. H. C. Boyden. Can Eng 48:529 My 26 '25
Field control of concrete on the Delaware river bridge. A. W. Munsell. il diag Am Concrete Inst Pro 21:50-66; Discussion. 67 '25
Filtered sprinkling water used to avoid iron stains in concrete. G. C. Habermeyer. il Eng N 91:985 D 13 '23
Fundamental factors in concrete quality control. R. H. Young. Eng N 94:940-2 Je 4 '25
Furnishing concrete by a strength specification; application of the water-cement ratio theory. J: G. Ahlers. il diag Eng N 95:674-7 O 22 '25
How to proportion concrete for a specified strength. R. R. Litehiser. Concrete 26:65-7 F '25
Importance of consistency of mix in concrete work. D. A. Abrams. Am Soc T M Pro 23 pt 2:443-7 '23
Influence of methods of proportioning and mixing. R. B. Young. Am Soc T M Pro 23 pt 2:175-6 '23
Inspecting modified Topeka mixer asphaltic concrete paving. R. B. Lee. chart Eng & Contr (R & S) 62:279-82 Ag 6 '24
Inundation as a practical aid to uniform concrete. A. A. Levison. il Am Concrete Inst Pro 21:216-25 '25; Abstract. Concrete 26: 183 My '25; Discussion. Am Concrete Inst Pro 21:226-31 '25
Inundation used on Wacker drive, Chicago: il Concrete 27:17-21 S '25
Maintaining uniform concrete. A. S. Grunspan. Can Eng 47:195 Jl 29 '24
Making better railroad concrete. Eng N 94: 381, 534 Mr 5, 26 '25
Making of concrete, covering chapters I to X of the Joint committee report. D. Peabody, jr. Boston Soc C E J 12:63-6 F '25
Making uniform concrete by inundating sand. R. L. Bertin. il diags Eng N 94:775-6 My 7 '25
Mixing by hand. P. Weiss. Concrete 26:171 My '25
Mixing concrete for power plant use. Power Pl Eng 28:1013-14 O 1 '24
Mixing concrete too rapidly. C. H. Kromer. Eng N 93:475 S 18 '24
Mixing strengthens concrete. Can Eng 45:512 N 20 '23
New test for consistency of concrete applicable to dry paving mixtures. F. H. Jackson and G: Werner. il Pub Roads 6:121-3+ Ag '25
Old and new methods of constructing concrete bridges. J. B. Hunley. Am Concrete Inst Pro 20:259-95 '24; Same. Eng & Contr (Bldgs) 61:681-90, 871-9 Mr 26, Ap 23 '24
Predetermining concrete mixtures on two large bridges. Eng N 94:184 Ja 29 '25
Predetermining concrete strength on park bridges. W. F. Welsch. Eng N 95:630-1 O 15 '25

CONCRETE mixing—*Continued*
Pre-drying concrete aggregates. W. W. Zass. Concrete 27:24-5 Ag '25
Producing a concrete of uniform quality on the job. R. B. Young. Eng N 95:679-80 O 22 '25
Proportioning concrete in products plants. S. Walker. Am Concrete Inst Pro 21:232-8 '25
Proportioning concrete materials with especial reference to highway construction. G. W. Hutchinson. il charts Am Concrete Inst Pro 21:148-76; Discussion. 177-9 '25
Proportioning for a given compressive strength at 28 days. Concrete 26:222 Je '25
Proportions and consistencies of concretes. Concrete 25:96-7 S '24
Proportions for concrete of given compressive strength at 28 days. Am Soc T M Pro 24 pt 1:376-80 '24; Same. Am Soc C E Pro 50:1277-82 O '24; Same. Am Concrete Inst Pro 21:404-8 '25
Quality of concrete for gas plant construction. Gas Age 54:857-8 D 20 '24
Report of committee C-6, on field methods; suggestions for the production of better concrete. Am Concrete Inst Pro 20:556-63 '24; Excerpt. Eng N 92:448-9 Mr 13 '24
Report of committee P-6, on concrete products plant operation. Am Concrete Inst Pro 20:633-40 '24
Scientific control of concrete shows economy. E. E. Seelye. Eng N 94:811-12 My 14 '25; Correction. 95:74 Jl 9 '25
Scientific methods of making concrete. D. A. Abrams. Soc Chem Ind J (Chem & Ind) 42: 1094-8 N 16 '23
Standard specifications for concrete and reinforced concrete; submitted by the joint committee. Am Soc C E Pro 50:1173-5 O '24; Same. Am Soc T M Pro 24 pt 1:323-5 '24
Strength of concrete, its relation to the cement aggregates, and water. A. N. Talbot and F. E. Richart. Ill U Eng Exp Sta Bul 137:1-116 '23; Excerpts. Eng & Contr (Bldgs) 60:1135-40 N 28 '23; Conclusion. Pub Works 55:28 Ja '24
Tests of impure waters for mixing concrete. D. A. Abrams. Am Concrete Inst Pro 20:442-86 '24; Excerpts. Pub Works 56:31 Ja '25; Summary. Concrete 24:241-3 Je '24; Same. Can Eng 46:617-18 Je 17 '24; Same. Eng & Contr (R & S) 61:1229-31 Je 4 '24; Same. Ry R 75:277-9 Ag 23 '24; Same. Am Cer Soc J (Bul) 8:236-9 My '25; Same; reprinted. 44p Structural materials research laboratory, Chicago '24
Theory must aid practice in concrete making. C. P. Richardson. Am Concrete Inst Pro 21: 24-9 '25; Same. Munic & Co Eng 69:33-7 Jl '25; Discussion. Am Concrete Inst Pro 21: 30 '25
Uniformity in field concrete. G. W. Hutchinson. Concrete 27:28-9 O '25
Use of calcium chloride in concrete construction. Chem Rec Age 23:8 My 11 '25
Value of admixtures in concrete. G. W. Hutchinson. Concrete 25:182-4 N '24

See also Concrete—Aggregate; Concrete mixers; Concrete plants; Sand—Measurement

Central plants

Advantages of central mixing plants for concrete and mortar. Eng & Contr (Bldgs) 63: 1359-60 Je 24 '25
Can dealers sell premixed concrete? C: R. Miller. Concrete 25:110-13; 26:87-8 S '24, Mr '25
Central mixing plant for yard paving. Eng & Contr (R & S) 64:546 S 2 '25
Central mixing plant in Los Angeles. Concrete 25:110 S '24; Same. Eng & Contr (Bldgs) 62:892 O 22 '24
Central mixing plants for the manufacture of premixed concrete. W. E. Hart. Am Concrete Inst Pro 21:188-94 '25; Same. Eng & Contr (Bldgs) 63:1387-91 Je 24 '25; Discussion. Am Concrete Inst Pro 21:195-6 '25

CONCRETE monuments. See Monuments, Concrete

CONCRETE pavements. See Pavements, Concrete

CONCRETE piers. See Piers, Concrete

CONCRETE piling
Cast concrete piling supports bearing wall. diags Concrete 24:28 Ja '24
Composite wood and concrete pile rises above water line. il diags Eng N 94:186-8 Ja 29 '25
Compressed-concrete piles. Engineering 118: 414, 416 S 19 '24; Eng & Contr (Bldgs) 62: 939-40 O 22 '24; Eng N 94:163 Ja 22 '25
Concrete for foundations and water-front work. M. M. Upson. il Am Concrete Inst Pro 20:135-44 '24
Concrete pile trestle highway bridges in Texas. G. G. Wickline. Eng & Contr (R & S) 61:1224-6 Je 4 '24
Concrete piles and concrete piling construction. M. M. Upson. il diags Eng Soc W Pa 40:103-28; Discussion. 129-42 Ap '24
Concrete piles for gas works foundations. J. F. Springer. il Gas Age 54:385-8+ S 20 '24
Concrete piles resist action of sea water for five years. C: M. Spofford. Eng N 92:765 My 1 '24
Concrete pipe for foundation piling for a store building. diags plans Concrete 26:203-4 Je '25
Concrete sheetpile levee wall at New Orleans. W. M. Peters. il diags Eng N 93:257-8 Ag 14 '24
Deep-water bridge foundation of concrete pipe piles. il diag map Eng N 94:568-70 Ap 2 '25
Developments with concrete piling. J. W. Ludlow. Can Eng 46:438-9 Ap 15 '24
Heavy hammer needed in driving large piles. J. N. Laycock. Eng N 92:890-1 My 22 '24
Making and driving 110-ft. concrete piles at Manila. E. C. Earle. il plan Eng N 94:756-61 My 7 '25; Discussion. A. F. Dyer. 94: 1031-2 Je 18 '25
New French system of concrete sheet piling. F. Johnstone-Taylor. diags Concrete 23:208 N '23; Same. Eng & Contr (Ry) 61:130 Ja 16 '24
Novel sheet pile construction at New Orleans. L. M. Arms. il diags Ry Age 76:1023-5 Ap 26 '24
Observations on rock boring mollusks in concrete. W. R. Sadler and D. E. Hughes. Eng N 93:1027-8 D 25 '24
Old concrete piles re-used in trainshed foundation. J. L. Starkie. il Ry R 74:322-3 F 23 '24
Pile casting methods for concrete pier at Havana. J: S. Vedoe. diags plan Eng N 93: 785-8 N 13 '24
Plant for Jamaica Bay boulevard construction. F. W. Skinner. il diags Concrete 25: 50-4 Ag '24; Same. Munic & Co Eng 67: 45-50 Jl '24; Same. Good Roads 67:49-53+ Ag '24
Reinforced-concrete piles fitted with shoes and jets. H. J. Finebaum. il diags Eng N 91:987-8 D 13 '23
Thin concrete hollow pile. diag Eng & Contr (Bldgs) 64:213 Jl 22 '25
Unusual method of sinking concrete piles. L. J. Sverdrup. Concrete 24:125 Mr '24; Same. Eng & Contr (Bldgs) 61:862 Ap 23 '24
Using dynamite to cut off concrete piles. A. G. Livingston. Munic Eng 65:282 D '23
Vibro concrete piling at the Aberystwyth gasworks. il Gas J (Lond) 167:509 Ag 6 '24

Advertising

Selling an industrial product to disinterested buyers. R. Cole. Ptr Ink 129:167-8+ N 6 '24

Repair

Building up disintegrated piles with quick-setting cement mortar. A. F. Shure. diag Eng N 94:284 F 12 '25

CONCRETE pipes. See Pipes, Concrete; Sewer pipes, Concrete; Water pipes, Concrete

CONCRETE placing
Concrete placed from five-ton buckets. il Concrete 25:4-5 Jl '24
Construction of highway concrete structures. A. R. Carter. Eng & Contr (R & S) 61:1232-3 Je 4 '24

CONCRETE placing—*Continued*
Hoisting speeds for concrete buckets. M. G. Farrell. il Bldg Age 47:170-1 S '25
Is this a concrete placing record? Eng N 95: 113, 232, 278 Jl 16, Ag 6-13 '25
Mast and spout concreting plant has special features. il Eng N 95:684-5 O 22 '25
Mixing ideas in the concrete. M. G. Farrell. il Bldg Age 47:122-3+ Mr '25
Novel and inexpensive method devised for placing concrete in stadium. il Eng N 93: 601 O 9 '24
Placing concrete for conveyor belt. il Arch & Bldg 56:71 Jl '24
Pneumatic handling devices patents upheld. Eng N 95:443 S 10 '25; Munic & Co Eng 69: 149-51 S '25
Safeguarding brick sewers; reinforced by concrete lining. il diags Concrete 26:22-5 Ja '25
Standard specifications for concrete and reinforced concrete; submitted by the joint committee. Am Soc C E Pro 50:1176-8 O '24; Same. Am Soc T M Pro 24 pt 1:325-8 '24

See also Concrete construction, Subaqueous; Concrete gun; Concrete plants

CONCRETE plants
Adapting the Fordson to concrete work. G. Triplett. il Concrete 24:260 Je '24
Belt conveyor handles concrete for large aqueduct. il diags Eng N 94:149-51 Ja 22 '25
Belt conveyors build Wanaque dam embankment and core wall. il diag plans Eng N 95:252-8 Ag 13 '25
Building Wilson dam at Muscle Shoals on the Tennessee. il Eng N 94:724-9 Ap 30 '25
Concrete making machinery. W. N. Twelvetrees. 188p Van Nostrand '25
Concreting plant for Ohio river lock. W. F. Heavey. il plan Concrete 24:146-8 Ap '24; Same. Eng & Contr (Ry) 62:415-19 Ag 20 '24
Concreting under restricted conditions. W: W. Hay. il plan Concrete 25:169-71 N '24; Same. Eng & Contr (Bldgs) 63:1145-8 My 27 '25
Construction methods and plant for substructure of Barclay-Vesey building, New York. F. W. Skinner. il plan Concrete 25:19-22 Jl '24
Effective use of bins and ramp. il diag Eng & Contr (Bldgs) 64:463-4 Ag 26 '25
Floating concreting plant for pier does rapid work. il diag Eng N 93:677-8 O 23 '24; Same. Cassier's Ind Management 12:148-9 F '25
Gravity material supply cuts handling costs. il Eng N 93:420-2 S 11 '24
Handling materials for substructure of $25,000,000 power house. F. W. Skinner. il diags Concrete 26:118-23 Ap '25
Labor saving arrangement for alley paving. il Eng & Contr (R & S) 60:971 N 7 '23
Large concrete plant employed on track elevation work. il diags Ry Age 78:781-4 Mr 21 '25; Excerpt. Eng & Contr (G C) 63: 1353-4 Je 17 '25
Mixing ideas in the concrete. M. G. Farrell. Bldg Age 47:142 Ap; 132-3 My '25
Mobile tower chuting plant builds concrete pier at Havana. il diags Eng N 93:52-4 Jl 10 '24
Moving forms used on framed concrete building. J. O. B. Coulling. il diag plan Eng N 94:933-6 Je 4 '25
Obtaining maximum efficiency in use of concrete chuting equipment. C. S. Wagner. il diags Eng N 92:216-17 Ja 31 '24
Plant for Jamaica Bay boulevard construction. F. W. Skinner. il diags Concrete 25: 50-4 Ag '24; Same. Munic & Co Eng 67:45-50 Jl '24; Same. Good Roads 67:49-53+ Ag '24
Principles of design of concrete plant. Eng N 92:448 Mr 13 '24
Report of committee C-1, on contractor's plant. Am Concrete Inst Pro 20:648-56 '24
Small concrete job layout. il diag Bldg Age 47:128 Ja '25
Unusual plant for concreting Astoria apartments. W. S. Hood. il diag plan Concrete 23:218-21 D '23; Excerpt. Eng & Contr (Bldgs) 61:1419-21 Je 25 '24
Wilson dam of Muscle Shoals project. il Eng & Contr (G C) 63:1109-15 My 20 '25

See also Concrete construction; Concrete mixers; Concrete mixing—Central plants; Concrete placing; Concrete products plants; Pipes, Concrete—Manufacture; Sewer pipes, Concrete—Manufacture

CONCRETE poles. See Poles, Concrete

CONCRETE posts. See Posts, Concrete

CONCRETE products
Concrete products in 20 years. R. F. Havlik. Concrete 24:195-7 My '24; Same, with chart. Am Concrete Inst Pro 20:145-56 '24
Cooperation of manufacturers and inspectors. Concrete 26:208 Je '25
Economical manufacture of quality concrete products. E. W. Dienhart. Concrete 24:182-8 My '24
Economical products manufacturing processes. Concrete 24:120-2 Mr '24
Products plant problems. Am Concrete Inst Pro 20:546-54 '24
Proportioning concrete in products plants. S. Walker. Am Concrete Inst Pro 21:232-8 '25
Recommended practice for the manufacture of concrete building block, building tile and brick. Am Concrete Inst Pro 21:473-81 '25
Report of committee P-6, on concrete products plant operation. Am Concrete Inst Pro 20:633-40 '24

See also Concrete blocks; Concrete brick; Concrete slabs; Concrete staves; Concrete tile; Pipes, Concrete; Sanitary ware, Concrete; Sewer pipes, Concrete

Advertising

Advertising suggestions to products manufacturers. R. Marshall. Concrete 25:190-2 N '24

CONCRETE products plants
Burlington operates four concrete products plants. il Ry R 74:1252-4 Je 28 '24
Concrete products plant operation. Am Concrete Inst Pro 21:470-512; Discussion. 513-23 '25
Fundamental business considerations in concrete products manufacture. Concrete 27: 35-6 S '25
Location of a concrete building unit plant. Concrete 25:109 S '24
Manufacture of pipe for Spavinaw water project. il diags plan Eng N 92:899-902 My 22 '24
New block plant idea. il Concrete 27:36-9 O '25
Operating the plant in winter. D. R. Collins. il Concrete 27:25-6 N '25
Sound financing for products industry. Concrete 23:209 N '23
Study conditions before building a products plant. W: F. Lockhardt. Concrete 24:180-2 My '24
Wash trays and building units in same plant. plan Concrete 25:108 S '24
Wilkes-Barre plant makes block, brick and tile. il diag plan Concrete 26:175-7 My '25

See also Concrete blocks—Manufacture; Sewer pipes, Concrete—Manufacture

Accounting

Cost keeping for concrete products plants. W: J. Rathke. Concrete 24:157-8 Ap '24; Same. Eng & Contr (Bldgs) 61:1413-15 Je 25 '24

Equipment

Economical handling of raw materials in building unit manufacture. diags Concrete 25:13-18 Jl '24
Storing and handling of materials for concrete products. W: F. Lockhardt. diags Concrete 25:154-6, 188-9 O-N '24

CONCRETE railings. See Railings, Concrete

CONCRETE reinforcing steel institute
Semi-annual meeting, Chicago. Sept. 23. Iron Age 116:830 S 24 '25

CONCRETE research
Engineering research in concrete and reinforced-concrete. A. N. Talbot. Am Concrete Inst Pro 20:168-74 '24

CONCRETE research—*Continued*
How one industry concentrates its research. D. A. Abrams. il Chem & Met Eng 31:539-42 O 6 '24
More research work; what the Bureau of standards is doing to solve many problems relating to concrete. F. A. Hitchcock. il diag Concrete 27:30-5 O '25

CONCRETE roads. See Roads, Concrete

CONCRETE rollers
Agreement reached on Macon concrete roller patents. Munic & Co Eng 67:32-3 Jl '24

CONCRETE roofs. See Roofs, Concrete

CONCRETE safes. See Safes, Concrete

CONCRETE sanitary ware. See Sanitary ware, Concrete

CONCRETE sculpture. See Statues, Concrete

CONCRETE sewers. See Sewers, Concrete

CONCRETE sidewalks. See Sidewalks, Concrete

CONCRETE slabs
Cantilever floor construction for concrete buildings. il diag Eng N 94:845-6 My 21 '25; Discussion. 94:1072; 95:318 Je 25, Ag 20 '25
Concrete pavement reinforcement logically designed. G: D. Burr. diags plan Eng N 92:78-9 Ja 10 '24; Discussion. 92:79-81, 418, 542, 628, 738-9, 948; 94:595-6 Ja 10, Mr 6, 27, Ap 10, 24, My 29 '24, Ap 9 '25
Design of concrete stair slabs. J. Feld. diags Eng N 93:876-8 N 27 '24
Duo-slab cottage construction. il Concrete 26:83 Mr '25
Flat slabs, covering part F, chapter XI of the Joint committee report. M. Linenthal. Boston Soc C E J 12:79-83 F '25
Hexagonal slab concrete paving at Longview, Wash. L. A. Perry. il chart diag Eng N 95: 580-3 O 8 '25
Kent system of house construction. il diag Concrete 26:68-9 F '25
New design expected to cut cost of concrete roads. diags plan Eng N 92:614-15 Ap 10 '24
New type of slab reinforcement for concrete roads. C. N. Conner. plan Eng N 93:954 D 11 '24
Some interesting flat-slab details from Germany. A. Spilker. il Concrete 25:199 N '24
Strength of hollow tile and reinforced concrete floor slabs. Am Arch 127:399 Ap 22 '25
Unit slab system permits long exterior spans. il Concrete 23:194 N '23

Testing

Cinder concrete units fire and water test. A. H. Beyer. il Concrete 24:25-7 Ja '24
Hexagonal slab design of concrete pavement. L: A. Perry. il diags Am Soc C E Pro 51: 1793-1808 N '25
State load tests on pavement slabs. J. T. Thompson. il diags Pub Roads 5:1-6 N '24; Excerpt. Concrete 26:29-30 Ja '25
Tests of hollow tile and concrete slabs reinforced in one direction. D. E. Parsons and A. H. Stang. il diags U S Bur Stand Tech Pa 291:465-514 '25

See also Roads, Concrete—Testing

CONCRETE stairways. See Stairways, Concrete

CONCRETE stave silo association, National. See National concrete stave silo association

CONCRETE staves
How to make 100% better products with 20% less cement. Concrete 26:74 F '25
Report of committee P-4, on concrete staves. Am Concrete Inst Pro 20:657-9 '24

Standards

Tentative standard specifications and building regulations for concrete staves. Am Concrete Inst Pro 20:660 '24

CONCRETE stone
Demonstration in making trim stone and ornamental concrete. R. F. Havlik. il Am Concrete Inst Pro 20:250-8 '24
Here is rock face made in sand molds. M. Sommers. il Concrete 26:64 F '25
Producing a high quality concrete stone. il diags Concrete 24:174-9 My '24

See also Concrete blocks

CONCRETE storehouses. See Storehouses, Concrete

CONCRETE tablets
Studies in concrete memorial tablet construction. J. K. Grannis. il diag Eng N 95:300-3 Ag 20 '25

CONCRETE tanks. See Tanks, Concrete; Water tanks, Concrete

CONCRETE ties. See Railroad ties, Concrete

CONCRETE tile
Building codes and their relation to the concrete products industry. W: F. Lockhardt. Am Concrete Inst Pro 20:221-36 '24
Concrete shells for concrete buildings. il Sci Am 129:405 D '23
Freezing and thawing tests of cinder concrete tile. Concrete 26:174 My '25
German warning against Keene's cement in concrete tiles. Concrete 25:200 N '24
Light-weight tile in California. il diag plan Concrete 24:254-5 Je '24
Two building tile plants in Pennsylvania. il Concrete 26:75-6 F '25
What shall it be—concrete block, brick or tile? W: F. Lockhardt. Concrete 24:239-41 Je '24

See also Drain tile

Cost

Light weight structural tile. Concrete 25: 90-1 S '24

Manufacture

Manufacture of light concrete building tile. Am Concrete Inst Pro 21:482-97 '25
Manufacture of supertile. il Concrete 26:220 Je '25
Roof tile problems being solved. H. Whipple. il diags Concrete 27:37-42 N '25
Stone-tile made wet in gang molds on sand beds. il Concrete 24:111 Mr '24

Specifications

Report of committee P-1, on standard building units. Am Concrete Inst Pro 21:597-601 '25
Tentative standard specifications for concrete building block and concrete building tile. Am Concrete Inst Pro 20:663-5 '24

Standards

Concrete blocks, bricks and tiles standardized in size. Eng N 93:728 O 30 '24

CONCRETE trackways. See Pavements, Concrete—Trackways

CONCRETE vaults. See Vaults, Concrete

CONCRETE walls. See Walls, Concrete

CONCRETE water towers. See Water towers, Concrete

CONCRETE wharves. See Wharves, Concrete

CONCRETING
Foundation cylinders concreted by pneumatic method. W. F. Way. il diags Eng N 92:479-80 Mr 20 '24
Règles scientifiques à suivre pour consolider par bétonnage les constructions métalliques. C: Rabut. Génie Civil 84:577-8 Je 14 '24

CONDEMNATION of land. See Eminent domain

CONDENSATION, Chemical
Action of aromatic alcohols on aromatic compounds in the presence of aluminum chloride; condensation of benzyl alcohol and phenol. R. C. Huston. Am Chem Soc J 46: 2775-9 D '24
Catalytic condensation of acetylene with phenols. H. H. Wenzke and J. A. Nieuwland. Am Chem Soc J 46:177-81 Ja '24
Condensation of acetylene and hydrogen sulphide in presence of catalysts. M. G. Tomkinson. Chem Soc J 125:2264-6 N '24
Condensation of aldehydes to esters by aluminum ethoxide. W. C. Child and H. Adkins. diags Am Chem Soc J 45:3013-23 D '23

CONDENSATION, Chemical—*Continued*
Condensation of aromatic aminosulphonic acids with *iso*cyanic acid, phenylcarbimide, and cyanamide. J: R: Scott and J. B. Cohen. Chem Soc J 123:3177-91 D '23
Condensation of aryldiazonium salts and of alkyl nitrites with certain derivatives of cyanoacetic acid. T: K. Walker. Chem Soc J 125:1622-5 Ag '24
Condensation of β-chloro- and β-ethylcarbonato-propionitriles with resorcinol. E. Chapman and H: Stephen. Chem Soc J 127:885-92 Ap '25
Condensation of carbon tetrachloride and phenol:aurin. M. Gomberg and H. R. Snow. Am Chem Soc J 47:198-211 Ja '25
Condensation of citral with ketones and synthesis of some new ionones. H. Hibbert and L. T. Cannon. Am Chem Soc J 46:119-30 Ja '24
Condensation of diphenylformamidine with phenols; the general nature of the reaction. J: B. Shoesmith and J: Haldane. Chem Soc J 125:2405-7 N '24
Condensation of mannitol with olive oil. J. C. Irvine and H. S. Gilchrist. Chem Soc J 125:10-15 Ja '24
Condensation of primary alcohols with resorcinol and other hydroxy aromatic compounds. R. N. Sen and N. N. Sarkar. Am Chem Soc J 47:1079-91 Ap '25
Condensation of rhodanic acids with isatin; 3-aryl-rhodanal-$\Delta^{5,3'}$-oxindoles. R. M. Hann. Am Chem Soc J 47:1189-91 Ap '25
Condensation products of amino-arsanilic acid. W. L. Lewis, P. L. Cramer and R. S. Bly. Am Chem Soc J 46:2058-65 S '24
Condensation products of diethyl ketone. J: B. Ekeley and M. S. Carpenter. Am Chem Soc J 46:446-50 F '24
Condensation reactions of cyclic ketones; the action of isatin and isatin alpha chloride upon certain hydantoins. A. J. Hill and H: R. Henze. Am Chem Soc J 46:2806-10 D '24
Condensations of aldehydes with resorcinol and some other aromatic hydroxy compounds. R. N. Sen and N. N. Sinha. Am Chem Soc J 45:2984-96 D '23
Equilibrium between benzaldehyde and benzoin. A. Lachman. Am Chem Soc J 46:708-23 Mr '24
Humin formed by the acid hydrolysis of proteins; the condensation of indole derivatives with aldehydes. G: O. Burr and R. A. Gortner. Am Chem Soc J 46:1224-46 My '24
Polyhydroxy and polyhydroxymethyl anthraquinones; syntheses from opianic acid and phenols or cresols. R. A. Jacobson and R. Adams. Am Chem Soc J 47:2011-18 Jl '25
Some condensation reactions involving the elimination of ester groups. B. L. Souther. Am Chem Soc J 46:1301-5 My '24
Some substituted ortho-benzoyl-benzoic acids and the corresponding anthraquinones. O. R. Quayle and E. E. Reid. Am Chem Soc J 47:2357-61 S '25

CONDENSED milk. See Milk, Condensed

CONDENSERS
Condenser for distilling oils of wide boiling range. H. N. Calderwood, jr. diag Ind & Eng Chem 16:576-7 Je '24
Recovering the weight from burnt fuel. il Sci Am 130:329 My '24
Water ballast recovery for airships. I. F. Fravel. il Aviation 15:625-6 N 19 '23
See also Ammonia condensers; Gas condensers

Cleaning
Saving effected by tube cleaning. C: H. Herter. Refrig W 59:26-7 Ja '24

CONDENSERS, Ammonia. See Ammonia condensers

CONDENSERS (electricity)
Application of static condensers to high frequency furnaces. R. E. Marbury. il diags Elec J 21:421-2 S '24
Application of static condensers to power-factor correction. R. E. Marbury. il Power 61:648-50 Ap 28 '25
Automatic synchronous condenser at the South works of the American steel & wire co., Worcester, Mass. E. B. Collins. il diag Gen Elec R 28:389-91 Je '25
Die berechnung von kondensatordurchführungen; abstract. Elektrotech Zeit 45:403-4 Ap 24 '24
Correcting power factor by synchronous condenser. F: Krug. Ind Eng 82:292 Je '24
Economics of power-factor correction. R. C. R. Schulze. Elec W 84:1247-51 D 13 '24
Experimental analysis of stability and power limitations. R. D. Evans and R. C. Bergvall. il diags Am Inst E E J 43:329-40 Ap '24
Figuring the size of a static condenser. Power Pl Eng 28:1102-3 N 1 '24
Filter condensers. R. E. Marbury. il Elec J 22:351-4 Jl '25
How power factor was improved by using rotary converter as synchronous condenser. R. W. Drake. il Ind Eng 83:262-4+ Je '25
Limitations of output of a power system involving long transmission lines. E. B. Shand. diags Am Inst E E J 43:219-29 Mr '24
Localized correction of power-factor. R. E. Marbury. il Elec J 21:583-6 D '24
Methods of voltage control of long high-voltage lines by the use of synchronous condenser. J: A. Koontz, jr. Am Inst E E J 42:1255-6 D '23; Discussion. 43:263-4 Mr '24
New method and means for measuring dielectric absorption; the dielectric lag meter. R. E. Marbury. bibliog il diag Am Inst E E J 44:718-23 Jl '25; Discussion. 44: 1146-50 O '25
Overdamped condenser oscillations. C: P. Steinmetz. il Am Inst E E J 43:424-8 My '24; Discussion. 43:1064 N '24
Power distribution problems. S. Q. Hayes. il Electrician 95:232-5 Ag 28 '25
Power-factor correction in practice. L. W. W. Morrow. diags Elec W 84:1096-1100 N 22 '24
Power loss in condensers with liquid dielectrics. L. S. McDowell. diags Phys R 23: 507-19 Ap '24
Principles of power factor correction. C: G. Green. diags Power Pl Eng 29:959-60 S 15 '25; Discussion. F. C. De Weese. 29: 1111 N 1 '25
Recent advances in the design, manufacturing and testing of static condensers in power sizes. R. E. Marbury. il Am Inst E E J 43: 114-18 F '24; Discussion. 43:1180-6 D '24
Selection of corrective equipment; choosing static or synchronous condensers on an economic basis. M. A. Hyde. il Elec W 83: 472-4 Mr 8 '24
Series reactance for static condensers. H. M. Jalonack. diags Elec W 84:1003-4 N 8 '24
Sheet-steel enclosing end bells. R. M. Casper. il Elec J 22:224 My '25
Static condensers; correct low power factor on individual motors. diag Textile World 68:1175 Ag 29 '25
Static condensers for the higher distribution voltages. R. A. Lane. il diag Elec J 22:68-71 F '25; Same cond. Engineer 139:543-4 My 15 '25
Study of power-factor correction. R. A. Lane. il Elec W 86:803-4 O 17 '25
Successful operation of turbo-generator as a synchronous condenser. N. D. Holmes. Elec W 82:1070-1 N 24 '23
Theory of the condenser in a new electrostatics. H. Bateman. Philos Mag 6th ser 49: 19-22 Ja '25
Über messungen von kapazitäten mittels kathodenröhren. V. S. Kulebakin. diags Elektrotech Zeit 46:923-4 Je 18 '25
Use of synchronous condensers with three-winding transformers. R. C. Bergvall. diags Elec J 21:205-6 My '24
Das verhalten von wechselstromkreisen bei parallelschaltung von eisendrosselspule und kondensator. L. Fleischmann. Elektrotech Zeit 45:1307 N 27 '24

CONDENSERS (electricity)—*Continued*
Waterwheel generators and synchronous condensers for long transmission lines. M. W. Smith. il diags Am Inst E E J 42:894-903 S '23; Discussion. 43:259-60 Mr '24

Testing

Study of liquid dielectrics. W. P. Davey and T: A. Wilson. il diags Gen Elec R 28:770-81 N '25 (to be cont)

CONDENSERS, Gas. See Gas condensers

CONDENSERS, Radio. See Radio condensers

CONDENSERS (steam)
Air leakage in condensers detected by air meter. diag Power Pl Eng 29:229 F 15 '25
Calculating the amount of air liberated in barometric condensers. C. M. Reed. Power 59:370-2 Mr 4 '24; Discussion. 59:692-3 Ap 29 '24
Condenser performance. J: Bruce. diags Elec R (Lond) 94:164-6 F 1 '24
Condenser unit heat transfer obtained from chart. H. O. Michael. Power 59:488-9 Mr 25 '24
Condenseur de vapeur, système Ginabat. diags Génie Civil 84:361 Ap 12 '24
Control of power production. C: L. Hubbard. il Factory 32:312-16+ Mr '24
Correct condenser operation prevents flooding and starting trouble. Power Pl Eng 28: 1167 N 15 '24
Determining the area of condenser cooling surface. E. C. Miller. Power 58:880 D 4 '23
Economical operation of condenser pumps. C: E. Colborn. charts Power Pl Eng 28:643-5 Je 15 '24
L'éjecteau-air condenseur. il diag Génie Civil 84:234-5 Mr 8 '24
Ginabat surface condenser. Mech Eng 47: 294-5 Ap '25
Heat transmission in coolers, heaters, and condensers. B. Heastie. diags Soc Chem Ind J 42:443-55 N 23 '23
Heating an evaporator with the exhaust from condensing engines. F. H. Nickle. diag Chem & Met Eng 31:226-8 Ag 11 '24
How external air cooling increases the effectiveness of condenser-tube surface. P. Bancel. il diag Power 59:769-71 My 13 '24
Jet condenser performance. G: E. Gaster. diag Power Pl Eng 28:1089-92 N 1 '24
Lake waters for condensers. A. G. Christie. Mech Eng 47:809-10 O '25
Large surface condenser for Philadelphia station. il Power Pl Eng 29:1072 O 15 '25
Largest jet condenser, Providence, R.I., undergoes test. il Power Pl Eng 29:1028 O 1 '25
Measurement of air removed from surface condenser. diag Power 60:991, 1031 D 16-23 '24
Methods of preventing corrosion of condenser tubes. J. Austin. Engineer 139:223 F 20 '25
Modern condensing practice in Great Britain. C. H. S. Tupholme. diags Power Pl Eng 29:841-2 Ag 15 '25
Eine neue bauart von oberflächenkondensatoren. L. Heuser. Zeit Ver Deutsch Ing 68: 1121-4 O 25 '24; Abstract. Mech Eng 47:132 F '25
Neue versuche an Ginabat-kondensatoren. L. Heuser. Zeit Ver Deutsch Ing 69:81-2 Ja 17 '25
New hotwell pump has stuffing-boxes under pressure. diags Power Pl Eng 28:258 F 15 '24
Operating calculations and instructions for small-plant condensers. G. E. Gaster. diags Power 61:136-8 Ja 27 '25
Operating troubles of brass condenser tubes scientifically investigated. G. D. Bengough and R. May. diags Power 60:997-9 D 16 '24
Power plant exhibits at Wembley. J: B. C. Kershaw. il diags Power 60;131-4 Jl 22 '24
Profit possibilities of vacuum in the power plant. J. T. Beard, 2d. il Ind Management 67:115-19 F '24
Proportioning water-works surface condensers. W. R. Freeman. diag Power 60:529-31 S 30 '24
Removing scale from condenser tubes. R. H. Forney. Elec W 86:121 Jl 18 '25
Selection of auxiliaries for steam-operated pumping stations. F. G. Cunningham. Am Water Works Assn J 11:347-53 Mr '24
Single-pass condensers require less pumping power than double-pass. P. Bancel. diags Power 60:371-2 S 2 '24; Discussion. 60:546-7, 660 S 30, O 21 '24
Spraying as an antidote for condenser tube corrosion. F. Johnstone-Taylor. Marine Eng 30:145-6 Mr '25
Steam-jet condensing-type vacuum pump. J. H. Smith. diags Elec J 22:17-23 Ja '25; Excerpts. Power Pl Eng 29:334-7 Mr 15 '25
Steam turbines and condensing equipment. F. Hodgkinson. diags Elec J 21:554-9 D '24; Abstract. Mech Eng 46:628-31 O '24; Excerpts. Power 60:666 O 21 '24; Discussion. F: J. Drover. 60:953 D 9 '24
Steam used by surface-condenser auxiliaries. J: D. Morgan. Power Pl Eng 28:1135-6 N 15 '24; Abstract. Mech Eng 47:49 Ja '25
Surface-condenser operation. P. H. Jeynes. diag Power 62:514-17 O 6 '25
Surface condensers. J: M. Drabelle. Sibley J 37:155-6+ O '23; Same cond. Power 57:484-5 Mr 27 '23
Tendencies in surface condenser practice. il diags Power Pl Eng 28:530-3 My 15 '24
Tests on a cooling-water evaporator. L. Heuser and H. Kanzler. diags Mech Eng 47:931 N '25
Typical method of packing condenser tubes. diags Elec W 84:122 Jl 19 '24
Unloading and placing a nine-thousand-square foot condenser. diags Power 60:814 N 18 '24
Very large surface condenser. il Engineer 137: 100-1 Ja 25 '24
Der wärmeübergang an kondensatorrohren. M. Jakob. Zeit Ver Deutsch Ing 68:423-4 Ap 26 '24
Wasser- und dampfstrahl-luftpumpen für oberflächenkondensatoren insbesondere auf schiffen. Zeit Ver Deutsch Ing 68:288-92 Mr 22 '24
Wheeler vacuum tube condenser. il Power 62:318 S 1 '25

See also Cooling towers; Feed water; Steam engines; Steam plants

Cleaning

Checking the performance of surface condensers and cleaning for maximum efficiency. C: E. Colborn. il Power 62:405-7 S 15 '25
Chlorine keeps condenser tubes clean. C. H. S. Tupholme. diag Power Pl Eng 28:1055 O 15 '24
Cleaning condenser tubes. Power 61:833 My 26 '25
Cleaning the outside of condenser tubes. S. Najinsky. diag Power 59:101-2 Ja 15 '24
Condenser cleaning. C. M. Griffin. il Power Pl Eng 29:1098-9 N 1 '25
Determining the economical interval between cleanings of condenser tubes. C. E. Colborn. Power 58:803-5 N 20 '23

Failures

Causes of rapid corrosion of condenser tubes. G. D. Bengough, R. May and R. Pirret. 100p E. & F. N. Spon, ltd., London '24
Causes of rapid corrosion of condenser tubes. G. D. Bengough, R. May and R. Pirret. il diags Engineering 116:572-6 N 2 '23; Discussion. 116:632, 649 N 16-23 '23
Corrosion of alpha-beta brass as affected by grain size. R. J. Anderson and S: H. Brooks. il diag Mech Eng 47:643-5 Ag '25
Corrosion of condenser tubes. F. Johnstone-Taylor. Marine Eng 29:108-9 F '24
Failure of condenser tubes. W: R. Webster. il Marine Eng 28:771-3+ D '23; Same. Power Pl Eng 27:1201-3 D 1 '23; Abstracts. Power 58:865-6 N 27 '23; Elec W 82:1176 D 8 '23; Discussion. Power Pl Eng 27:1210-11 D 1 '23
Notes on the corrosion and protection of condenser tubes. G. D. Bengough and R. May. Power 62:584-5 O 13 '25

CONDENSERS (steam)—Failures—*Continued*
Rapid corrosion of condenser tubes. G. D. Bengough and R. May. il diags Engineer 136:7-10 Jl 6 '23; Abstracts. Mech Eng 45: 542-4 S '23; Power 58:235 Ag 7 '23; Discussion. Engineer 137:278-9 Mr 14 '24
Stopping of circulating pump causes crack in condenser shell. H. N. Thomas. diags Power 59:142 Ja 22 '24

Manufacture
Drilling tube heads for condensers. J: K. Simeon. il Am Mach 62:285 F 12 '25
Makes large condenser shell. H. A. Hart. diags Foundry 53:601-5 Ag 1 '25
Manufacture of condenser and locomotive tubes. A. Cameron. Engineer 140:250 S 4 '25
Manufacture of condenser tubes. Chem Age (Lond) 12:sup34-5 My 2 '25
Manufacture of condenser tubes. W: R. Webster. il Iron Age 113:871-2 Mr 20 '24

Repair
Condenser tubes pulled in record time. il diag Power 59:1032-3 Je 24 '24

Specifications
Condenser specifications and bids for Detroit municipal plant. Power 58:934-6 D 11 '23
Tentative specification guide for steam condensers. Am Arch 126:sup16+ Ag 13 '24

Testing
Code on instruments and apparatus. diags Mech Eng 47:920-6 N '25
Measuring condenser leakage with a megger. H. Edwards. diags Power 60:907-8 D 2 '24
Test code for condensing apparatus. Mech Eng 46:291-6 My '24
Testing steam turbine and barometric condenser. F. S. Youtsey. diag Power 59:979-80 Je 17 '24
Testing surface condensers equipped with steam jet air pumps. J. H. Bell. Power 61:669-72, 750 Ap 28, My 12 '25

CONDIT, Sears Byron, 1872-
Portrait. Elec W 86:502 S 12 '25

CONDITIONAL sales. See Sales, Conditional

CONDITIONING. See Air conditioning; Cotton—Moisture content; Moisture; Silk—Moisture content; Textile fibers—Moisture content; Wool—Moisture content

CONDON, Oregon

Water supply
Tile drains collect water for small city supply. diags plan Eng N 91:854-5 N 22 '23

CONDUCTIVITY, Electric. See Electric conductivity

CONDUCTIVITY, Heat. See Heat conductivity

CONDUCTOR pipes
Simplified practice recommendation on eaves trough and conductor pipe. Sheet Metal Worker 15:942 Ja 2 '25

CONDUITS. See Manholes; Pipe lines

CONDUITS, Concrete
Pipe conduit design with unique features. diags Heat & Ven 21:55 Ap '24

CONDUITS, Electric. See Electric conduits

CONDUITS, Water. See Water conduits

CONES
La mesure industrielle des dimensions et la vérification des formes. H: Stroh. diags Génie Civil 86:230-1 Mr 7 '25

CONEY ISLAND
Building for the Childs co., Coney Island, N.Y. F. S. Laurence. il Am Arch 126:217-23, pl 81-3 S 10 '24

CONFECTIONERY
Candy maker takes up the dull season slack. Ptr Ink 133:152+ O 29 '25
See also Candy; Candy trade; Chocolate

Advertising
Planning direct advertising for confectioners and soft-drink parlors. R. E. Ramsay. il Inland Ptr 75:245-8 My '25
Time is ripe for another industry to advertise. A. H. Deute. Ptr Ink 131:76-7+ Je 18 '25

Manufacture
Automatic and semi-automatic confectionery making plant at the British Empire exhibition. il (supp) Engineer 138:7-8 Jl 4 '24
Chemistry and confectionery. S. Jordan. Ind & Eng Chem 16:336-9 Ap '24
Constructive chemistry in relation to confectionery manufacture. H. S. Paine. Ind & Eng Chem 16:513-17 My '24
Gas used in the manufacture of sweets. S. B. Watling. Gas J (Lond) sup 4:60-1 Mr 25 '25
Manufacture of confectionery. R. Whymper. 265p Van Nostrand '23

CONFEDERATE memorial. See Stone Mountain monument

CONFEDERATE memorial institute, Richmond
Confederate memorial institute, Richmond; views and plan. Arch Forum 40:85, pl 31-2 F '24

CONFERENCE of special libraries and information bureaus of Great Britain
First conference, High Leigh, Hoddesdon, Herts, Sept. 5-8. Special Lib 15:206 O '24

CONFERENCES. See Conventions

CONFERENCES, Business. See Business conferences

CONGLOMERATE
Nature and environment of the lower Cambrian sediments of the Southern Appalachians. J. Barrell. map Am J Sci 5th ser 9:1-20 Ja '25

CONGRESSMEN
Congressman's mail is variety show. F. D. Shelton. Nation's Business 12:74-5+ My '24
Tragedies of Washington; ex-Congressmen and government employees. J. B. Morrow. Nation's Business 12:20-2 Je '24

CONIC sections
Analytical conics. D. M. Y. Sommerville. 310p Van Nostrand '24
Rapid plotting of conic sections. E. R. Stivers. Eng & Contr (W W) 62:557 S 10 '24

CONIFERS
See Pine; Spruce

CONNECTICUT
See Geology—Connecticut; Motor bus lines—Connecticut; Roads—Connecticut; Street railroads—Connecticut

CONNECTICUT company, New Haven
Net income of Connecticut company smaller in 1923. Elec Ry J 63:636 Ap 19 '24

CONNECTICUT river
Pre-glacial course of the Connecticut river near Middletown, Connecticut, and its significance. M. H. Bissell. maps Am J Sci 5th ser 9:233-40 Mr '25

CONNECTING rods
Connecting rod bearings. F. C. Hudson. Am Mach 62:607 Ap 16 '25
Connecting rod for heavy service. J. Stumpf. diag Power 61:411 Mr 17 '25
Designs used and proposed for mounting connecting rod head roller bearings. diags Automotive Ind 51:964-5 D 4 '24
Light alloy connecting rods. diags Automobile Eng 15:47 F '25
McKone connecting rod bearing said to prevent binding. il Automotive Ind 51:153 Jl 17 '24
Stresses in connecting-rods. B. B. Low. Engineering 120:185-6 Ag 14 '25

Manufacture
Analysis of a machine-shop problem on a quantity and final-economy basis. A. L. De Leeuw. diags Mech Eng 46:335-8+ Je '24
Cleveland big end piston rod bearings are die cast in place. M. R. Wells. il Automotive Ind 52:858-60 My 14 '25; Same. Am Mach 62:770-2 My 14 '25

CONNECTING rods—Manufacture—*Continued*
Connecting rod production accelerated by gang system and good jigs. W. L. Carver. il diags Automotive Ind 49:1155-61 D 6 '23
Con-rod line at Waukesha. W: Thiel and H. O. Schultz. il diags Am Mach 62:301-4 F 19 '25
Drop forging of connecting rods on quantity scale. Schweissguth. diags Automotive Ind 53:290 Ag 20 '25
Fiat automobile production methods. J. A. Lucas and F. E. Bardrof. il Am Mach 61: 1-4, 49-53 Jl 3-10 '24
Forging and machining connecting rods. F. H. Colvin. il Am Mach 63:155-7 Jl 23 '25
Hollow connecting rods in the making. F. H. Colvin. il diags Am Mach 60:311-13, 351-2 F 28-Mr 6 '24
Light alloys for pistons and connecting-rods. L. Aitchison. Automobile Eng 14:153-5 My '24; Same. Automotive Ind 50:970-3 My 1 '24; Discussion. Automobile Eng 14:211-12, 223 Jl-Ag '24
Making Chrysler connecting rods. J: Younger. il Am Mach 62:877-9 Je 4 '25
Milling automobile truck connecting-rods. C. O. Herb. il diag Mach 31:276-8 D '24
Piston rods of different designs machined on standard set of tools. H. O. Schultz. il Automotive Ind 52:824-5 My 7 '25
Production of connecting-rods. Soc Auto Eng J 16:488 My '25

CONNECTORS, Train line
Flexible metal hose adapted. il Ry Age 76:798 Mr 22 '24; Same. Ry Mech Eng 98:248 Ap '24

CONSERVATION of resources
Federal department of conservation suggested by Secretary Work. Nat Pet N 17:25-6 O 28 '25
Practical need for international conservation of minerals. C. E. Julihn. Ann Am Acad 112:189-90 Mr '24

See also Coal; Forest conservation; Forests and forestry; Gas, Natural—Conservation; Petroleum—Conservation; Reclamation of land; Water power

CONSIGNMENT selling
Are your goods sold on consignment? H. A. Haring. Ptr Ink M 10:63-4 Ja '25
Consignments, account sales and accounts current. E. J. Hammond. 152p Pitman '24
Is consignment selling the way out? R. Cole. Ptr Ink 129:3-4+ O 16 '24
Legal pitfalls in consignment selling. E: I. Devlin, jr. Ptr Ink 125:57-8+ D 20 '23

CONSOLIDATED gas company, New York
Statement for year 1923. Comm & Fin Chr 118:428-9 Ja 26 '24; Gas Age 53:117-18 Ja 26 '24; Am Gas J 120:114 F 2 '24
Statement presented at annual meeting, Jan. 26, 1925. Comm & Fin Chr 120:577-8 Ja 31 '25

Library

Library for ambitious workers. il Special Lib 15:250-1 D '24

CONSOLIDATED gas, electric light and power company of Baltimore
Annual report for 1923. Comm & Fin Chr 118: 1031-3 Mr 1 '24
Annual report for year ended December 31, 1924. Comm & Fin Chr 120:1221-3 Mr 7 '25

CONSOLIDATED mining and smelting company of Canada
Consolidated mining and smelting to redeem bonds. Eng & Min J 119:661 Ap 18 '25

CONSOLIDATED statements
American institute of accountants examination in accounting theory and practice, May 14, 1925. J Account 40:54-60 Jl '25
Consolidated balance-sheets. A. P. Richardson. J Account 40:37-40 Jl '25

CONSOLIDATED textile corporation
Consolidated textile corp. Moody's Inv Serv 16:16, 311 Ja 10, Ag 14 '24

CONSOLIDATION coal company
Annual report, 60th, for 1923. Comm & Fin Chr 118:1417-19 Mr 22 '24
Annual report, 61st, for year ended Dec. 31, 1924. Comm & Fin Chr 120:1491-3 Mr 21 '25

CONSTANT-level water baths. See Baths (chemical apparatus)

CONSTANTIN refining company
Reorganizing plan. Comm & Fin Chr 119: 2291-2 N 15 '24

CONSTANTINESCO converter
Le problème des changement de vitesses; le transformateur Constantinesco. F. Collin. il diags Génie Civil 86:201-7 F 28 '25
Variable transmission. G. Constantinesco. diags Automobile Eng 14:10-14, 39-44, 76-81 Ja-Mr '24; Discussion. 14:20-2, 47-9, 72-4, 112-14, 140-1 Ja-My '24

CONSTANTINOPLE
Constantinople the colorful. G. K. Geerlings. il Am Arch 128:1-8 Jl 1 '25

CONSTANTS, Engineering. See Engineering—Tables, calculations, etc.

CONSTITUTION (frigate)
Passing of Old Ironsides. J. B. Walker. il diags Sci Am 133:20-2 Jl '25

CONSTRUCTION equipment
Application du machinisme et des méthodes industrielles à la construction des habitations. C.-P. Petitjean. diags Soc Ing Civils Bul 78:181-95, pl 90 Ja '25
Are you throwing away money on the job? R. M. Singer. il Bldg Age 47:124-7 Je '25
Automotive and labor saving equipment in telephone work. T. C. Smith. il W Soc E J 28:543-57 D '23
Care and maintenance of contractors' equipment. R. E. Brooks. Munic & Co Eng 66: 248-50 My '24
Care of construction plant equipment. J. E. Buhl. il plans Concrete 25:232-4 D '24; Same cond. Eng & Contr (Bldgs) 62:893-5 O 22 '24
Care of equipment at end of season. Eng & Contr (R & S) 64:506 S 2 '25
Contractor maintains service and repair plant. il plans Eng N 94:100-3 Ja 15 '25; Am Mach 62:278-9 F 12 '25
Dufferin company's new base at the foot of Bathurst st., Toronto. il Can Eng 47:341-2 S 16 '24
Equipment expense and rental; a portion of a report on problems of equipment ownership and maintenance compiled by the Associated general contractors of America. Eng & Contr (Bldgs) 62:919-28 O 22 '24
Equipment review. Eng & Contr (Equip R) 61:217-76, 913-74; 62:221-68, 945-94; 63:903-56; 64:235-76 Ja 30, Ap 30, Jl 30, O 29 '24, Ap 29, Jl 29 '25
Evolution of road construction and maintenance equipment. O. L. Kipp. Eng & Contr (R & S) 63:229-40 F 4 '25; Same abr. Eng N 94:211-13, 252-3 Ja 29-F 5 '25
Getting maximum service from varied equipment. il Eng & Contr (Bldgs) 62:1153-60 N 26 '24
Labor saving apparatus for contractors. J. W. Kirk. il Am Exporter 94:101+ My '24
Management of equipment department. R. H. Stalnaker. Pub Works 56:156-7 My '25
Many changes made during 1923 in details of construction machinery and materials. Eng N 92:36-9, 94-6 Ja 3-10 '24
Maschinen im baubetriebe. il diags Zeit Ver Deutsch Ing 68:689-720, 735-9 Jl 5-12 '24
Modern builder's equipment. il Bldg Age 47: 114-24 F '25
Rental charges for construction equipment. S. Stokes. Eng & Contr (Bldgs) 60:1130-4 N 28 '23
Well planned equipment aids power plant project. F. W. Skinner. il plans Bldg Age 47:104-5 Jl '25
Your field equipment. il Bldg Age 46:84-6 Ja '24

See also Concrete plants

Accounting

Construction equipment accounting. Eng & Contr (G C) 64:408-10 Ag 19 '25

CONSTRUCTION equipment—*Continued*

History

Construction equipment—past and present. il Eng N 92:745-7, 785-7 Ap 24-My 1 '24

Prices

Construction equipment prices; tabulation. Eng & Contr (R & S) 64:40-5 Jl 1 '25

Standards

Purpose and progress of construction equipment standardization. C. E. Bement. Munic & Co Eng 66:86-8 F '24

CONSULTING engineers

Costs of a consulting engineering practice. Engineer 137:113-14 F 1 '24

Handicaps to consultation service. L. C. Hart. Elec W 83:647-8 Mr 29 '24

How the work of city engineers and consultants should dovetail. Eng N 95:673 O 22 '25

Income tax decision affects many consulting engineers. Eng N 93:581 O 9 '24

Why pay for engineering services? H. O. Swoboda. Elec W 83:1227-8 Je 14 '24

CONSUMER demand

High cost of salesmen who don't sell. A. H. Deute. Ptr Ink 130:69-70+ F 26 '25

Running the rapids of popularity. B. K. Harmon. Ptr Ink 129:89-90 N 6 '24

CONSUMERS' cooperative societies. See Cooperation

CONSUMERS' liability insurance. See Insurance, Consumers' liability

CONSUMPTION (economics)

Consumption vs. saving in the United States in 1923. A. R. Marsh. Econ W n s 27:3-4 Ja 5 '24

Education of the consumer. H: Harap. 360p [bibliog. p. 335-53] Macmillan '24

New wealth, new standards of living and changed family budgets. C. Frederick. Ann Am Acad 115:74-82 S '24

Purchasing power of the consumer. W: A. Berridge, E. A. Winslow and R: A. Flinn. 318p [bibliog. p. 81-3, 261-5] Shaw '25

See also Supply and demand

CONTACT angle

Investigation of the angle of contact between paraffin wax and water. R. Ablett. diags Philos Mag 6th ser 46:244-56 Ag '23; Discussion. A. Ferguson. 47:91-3 Ja '24

CONTACTORS, Magnetic. See Magnetic contactors

CONTAINER system (freight handling)

Container system as an aid to railway revenues. A. C. Spurr. il Aera 13:1643-50 My '25

Container units in motor truck freight service. il Ry R 74:656-8 Ap 5 '24

Demountable containers expedite freight handling in Michigan. E. J. Burdick. il Elec Ry J 62:1077-9 D 29 '23

New York Central's use of trucks and unit containers. G. C. Woodruff. Munic & Co Eng 68:258-9 My '25

Rail and water transport in containers. H. Schlatter. diags Cassier's Ind Management 11:81-3 F 7 '24

Unit container system of freight handling developed by Mack; containers constructed of aluminum. il Automotive Ind 52:742-3 Ap 23 '25

Unit containers in freight transportation. il Ry R 76:557-62 Mr 21 '25

CONTAINERS

Better shipping containers. F. T. Smith. il Management & Adm 9:349-52, 421-4, 549-52; 10:23-6 Ap-Jl '25

Carton's uses as direction sheet; packaging electric fuses. Ptr Ink 128:120+ Ag 21 '24

Cashing in on cartons. C: H. Bishop. il Sanitary & Heat Eng 100:310-11, 432-3 N 16, D 28 '23

Chemical association submits traffic rules; manufacturers offer suggestions for packing of poisonous insecticides. Oil Paint & Drug Rep 106:19 S 8 '24

Chemical salesmen frame rules for returnable containers. Chem & Met Eng 30:803 My 19 '24

Container investigations at the forest products laboratory. C. A. Plaskett. Am Gas Assn Manufacturers' sec v 5:806 '23

Cutting down shipping losses. H. H. Squire. il Management & Adm 9:47-50 Ja '25

Economies of fiber shipping containers. H. D. Cornwall. Management & Adm 9:464 My '25

Economy of fibre containers. H. D. Keeler. Textile World 66:3440+ D 13 '24

Fiber shipping case economies. W: A. Vollmer. il Management & Adm 7:187-93 F '24; Excerpt. Paper 33:23-4 Mr 20 '24

Formulas for shipping box construction. M. L. Oglesby. il Management & Adm 7:323-8 Mr '24

How to reduce packing costs for hard rubber goods. il India Rubber W 72:467-8 My '25

Making the package advertise after the product is used. il Ptr Ink M 10:46 Je '25

Methods of calculating hosiery shipping case dimensions. U S Bur Stand Circ 169:1-37 '24

National container men discuss vital questions. Paper Tr J 78:40 F 14 '24

Package design as starting point for sales volume. F. E. Lowenstein. il Ptr Ink M 10:24+ Je '25

Package specifications for transportation of poisons are amended by the I.C.C. Oil Paint & Drug Rep 108:22+ Ag 17 '25

Packages as premiums. A. R. Hahn. il Sales Management 8:737-8+ My 16 '25

Packing and shipping oil and lubricants; methods in use at the Tide Water oil company. J. B. Edwards. il Management & Adm 8:59-64 Jl '24

Packing for foreign markets. J: F. Keeley. il diags U S Bur For & Dom Com Trade Promotion Ser 1:1-439 '24

Report of committee D-10 on shipping containers. chart Am Soc T M Pro 24 pt 1:661-5 '24

Selecting the proper container. il Management & Adm 10:199-200, 271-2 O-N '25

Selling baking powder by helping bakers sell cakes. C. M. Harrison. Ptr Ink M 9:99 D '24

Standard boxes for packing bolts. il Iron Age 116:468-70 Ag 20 '25

Unusual label design for bulk container helps stabilize demand. il Ptr Ink 127:41-2+ Ap 24 '24

What packages mean to the salesman in foreign lands. il Sales Management 9:577-9+ O 31 '25

When containers are used twice. A. B. Hall. il Factory 33:138+ Jl '24

Would standardize bolt packages. Iron Tr R 77:629-30 S 10 '25

See also Bags; Barrels; Barrels, Steel; Bottles; Boxes; Cans; Carboys; Cement bags; Container system (freight handling); Crates; Gas containers; Hosiery boxes; Mail bags; Package goods; Packing for shipment; Paper bags; Paper board; Paper boxes; Pressure vessels; Tanks; Tin cans; Tubes (containers)

CONTAINERS, Paper. See Paper containers

CONTAINERS, Steel

See Pressure vessels; Tanks, Steel

CONTEMPT of court

Jury trial in labor contempt cases. Bradstreet's 52:685 O 25 '24

Jury trials for contempt under the Clayton act. Monthly Labor R 19:1362-4 D '24

President Coolidge remits contempt sentence imposed on C. L. Craig, Comptroller of New York, by Judge Mayer—Attorney-general's opinion—statement by Mr Craig. Comm & Fin Chr 117:2501-5 D 8 '23

Rights of strikers defined. Index p 10-11 N '24

United States Supreme court rules that Federal courts cannot deny jury trials in contempt cases in labor disputes. Comm & Fin Chr 119:1920-1 O 25 '24

CONTINENTAL baking corporation
Class A stock. Moody's Inv Serv 17:227 Jl 9 '25

CONTINENTAL motors corporation
Statement of financial condition October 31, 1924. Comm & Fin Chr 120:340-3 Ja 17 '25

CONTINENTAL shelf
Continental shelf off the coast of California. A. C. Lawson. Nat Research Council Bul v 8, pt 2:1-23 Ap '24

CONTINUATION schools. See Evening and continuation schools

CONTRACT bonds. See Suretyship and guaranty

CONTRACT work. See Job work

CONTRACTORS
All about a highway record maker and why; G. P. Scharl. H. A. Scribner. il Eng & Contr (R & S) 62:1009-11 N 5 '24
And now the woman builder. il plans Bldg Age 47:98-9 Jl '25
Architects and industrial building. J. P. H. Perry. Concrete 23:189-91 N '23; Same. Eng & Contr (Bldgs) 61:465-9 F 27 '24
Bonds as a gauge of a contractor's responsibility. N. F. Helmers. Munic Eng 66:60-3 F '24
Builder who makes building his hobby. J. T. Beard. il plan Bldg Age 46:54-6 O '24
Construction and credit. E. W. Ryberg. Eng & Contr (R & S) 63:63-4 Ja 7 '25
Contract bond reform. Eng N 91:748, 944 N 8, D 6 '23
Contractor maintains service and repair plant. il plans Eng N 94:100-3 Ja 15 '25
Contractors as the worst figurers in the world and the contract bond situation. R. H. Towner. Econ W n s 29:637-8 My 2 '25
Contractors' dwindling profits. O. W. Rosenthal. Eng & Contr (Bldgs) 61:894-902 Ap 23 '24
Contractors' neglect to pay bills. A. L. H. Street. Bldg Age 47:93 Ag '25
Contractors surety bonds. T: B. Smith. Bldg Age 46:73 Jl '24
Contractual principles and practices. Prof Eng 10:6-8 Ag '25
Cooperation between engineers and contractors. O. W. Crowley. Munic & Co Eng 68:129-30 Mr '25
Determining the responsibility of contractors. E. W. Bush. Eng N 91:793-4 N 15 '23
Element of risk in contracting. T: Davlin. Eng & Contr (R & S) 63:1008-9 My 6 '25
Equipment expense and rental; a portion of a report on problems of equipment ownership and maintenance compiled by the Associated general contractors of America. Eng & Contr (Bldgs) 62:919-28 O 22 '24
Ethical conduct for contractors. Eng & Contr (G C) 64:435-8 Ag 19 '25; Excerpt. Eng N 95:142 Jl 23 '25; Same. Pub Works 56:279-80 Ag '25
Fifty years of contracting. F. L. Cranford. Eng N 92:664-6 Ap 17 '24
General contractors seek to improve bonding practices. Eng & Contr (Bldgs) 63:851-2 Ap 24 '25
Houston woman success as concrete contractor. Concrete 24:198 My '24
How to organize and plan big building operations. L. J. Horowitz. Eng N 94:428-31 Mr 12 '25
Irresponsible contractor. Can Eng 46:133 Ja 8 '24
Opinion in the construction industry regarding the need of contract bond reform. Econ W n s 29:201-2 F 7 '25
Problems of the construction industry. R. C. Marshall, jr. Boston Soc C E J 12:285-90; Discussion. 290-9 Je '25
Quality and quantity of Buncombe. C: Eidlitz. Am Inst Arch J 12:134-5 Mr '24; Discussion. 12:135-7, 189-90 Mr-Ap '24
Saving money on builders' insurance. G: Coe, jr. il Bldg Age 45:51-3 N '23
Simple bonus system effective. L. S. Atkinson, jr. Eng & Contr (R & S) 62:49 Jl 2 '24
Surety company officials meet contractors. Eng N 92:1074 Je 19 '24
Undesirable practices in the bonding business as viewed by the construction industry. Econ W n s 27:133-5 Ja 26 '24
What contractors want and don't want. Concrete 24:81 F '24
What is the matter with contracting? W: J. Barney. Eng N 95:456-9 S 17 '25; Discussion. N. C. Johnson. 95:646 O 15 '25

See also Building contracts; Construction equipment; Contracts, Letting of; Day labor; Electric contractors; Engineering contracts; Estimates; Water supply for contractors; *also* Associated general contractors

Accounting

Accounting and business methods for contractors. C: F. Dingman. 175p McGraw-Hill '24
Accounting for general contractors. A. Savage. J Account 38:161-73 S '24
Charging items on cost plus job. Eng & Contr (Bldgs) 62:664 S 24 '24
Checking up on profit during construction. B. Lawrence. Eng N 94:518-22 Mr 26 '25
Contractors' accounting practice, with procedure also for owners, architects, and engineers. W: M. Affelder. 386p Ronald press '24
How to keep costs on construction work. A. L. Hartridge. chart Eng N 94:479-82 Mr 19 '25
Line construction cost keeping. F. H. Miller and F. W. Fackle. Elec W 84:1349-51 D 27 '24
Practical accounting and cost keeping for contractors. F. R. Walker. 169p Frank R. Walker co., Chicago '24
Practical accounting for general contractors. H. D. Grant. 2d ed. 329p McGraw-Hill '25
Pricing quantities on a unit hour basis. Eng & Contr (Bldgs) 61:867-9 Ap 23 '24
Simple accounting for builders. M. G. Farrell. Bldg Age 46:88-9+ My; 77-8 Je; 75-6 Jl; 80-1 Ag '24

See also Electric contractors—Accounting

Licenses

Arguments for the licensing of building contractors. O. W. Rosenthal. Eng & Contr (Bldgs) 62:709-11 S 24 '24

CONTRACTS
Cases illustrating general principles of the law of contract. J: C: Miles and J. L. Brierly. 528p Oxford '23
Contractors' right to expected profits. R. G. Focht. Eng & Contr (R & S) 61:1033 My 7 '24
Interpretation of contracts. K. Hereford. Am Mach 63:300 Ag 20 '25
Principles of the English law of contract and of agency in its relation to contract. W: R. Anson. 16th ed. 462p Oxford '23
Principles of the law of contracts and torts with a short outline of the law of evidence. J: Indermaur. Rev. & enl. 648p Sweet & Maxwell, London '22
Selected cases on the law of contracts. E. W. Huffcut and E. H. Woodruff. 4th ed., rev. and enl. 808p Banks and co., Albany '25
Unforeseen contingencies in a contract. A. Barrister. Cassier's Ind Management 12: 262-3 Ap '25
When is a contract voidable? Chem & Met Eng 32:382-3 Mr '25
When you cancel a salesman's written contract. Ptr Ink 128:89-90+ S 11 '24

See also Advertising contracts; Agency (law); Arbitration; Bills of lading; Building contracts; Coal contracts; Contractors; Electric utilities—Contracts; Engineering contracts; Exclusive agencies; Heating contracts; Leases; Partnership; Plumbing contracts; Power contracts; Roads—Contracts; Sales; Sewerage—Contracts; Suretyship and guaranty; Trade agreements

CONTRACTS, Government
Cantonment case decided; decision of U.S. District court of Kansas in case of United States against George A. Fuller co. Eng & Contr (G C) 64:136-9 Jl 15 '25

CONTRACTS, Government—*Continued*
Contracts for unlimited quantities. E. K. Sturgis. Concrete 24:22 Ja '24
Contracts vs. force account on the Mississippi. Eng N 92:600-1 Ap 10 '24
Criticism of the separate contract system. Munic & Co Eng 67:104-5 Ag '24
Indictment and suits against cantonment constructors. F. M. Gunby. Boston Soc C E J 11:121-34 Ap '24
Value of 1923 federal government construction greater than preceding year. Eng N 92:510 Mr 20 '24
War settlements to stand. G: R. Shields. Am Ind 25:21-2 Je '25

CONTRACTS, Letting of
Bidders' bond vs. certified checks at highway lettings. A. E. Horst. Munic & Co Eng 66:236-8 My '24
Criticism of the form and financing of public works contracts. W. W. Horner. Munic Eng 65:283-5 D '23
Day labor operations in public construction. Eng & Contr (G C) 63:1312-20; 64:149-57 Je 17-Jl 15 '25
Drawing, advertising and letting municipal contracts. J. N. Ambler. Eng N 93:906-9 D 4 '24
Eliminating irresponsible bidders. Am Ind 25: 26 Ja '25
Irresponsible bidder. Eng & Contr (R & S) 63:712-14 Ap 1 '25
Irresponsible bidder. R. L. Warren. Munic & Co Eng 69:169-78 O '25
Proposed form of general contract for municipal improvements. Munic & Co Eng 68:11-19 Ja '25
Recommended procedure for selecting general contractors and sub-contractors. Heat & Ven 22:82-3 Ja '25
Selecting the responsible contractor. Eng & Contr (G C) 64:663-5 S 16 '25
Some legal aspects of competition among engineers. D. B. Luten. Munic & Co Eng 67: 64-5 Ag '24
Special contract devised for Narrows tunnel. Eng N 94:280 F 12 '25; Discussion. 94:261, 330 F 12-19 '25
Specifications for a responsible bidder. G: H. Jennings. Munic & Co Eng 68:90-3 F '25; Excerpts. Eng & Contr (R & S) 64:293-6 Ag 5 '25
Time charge replaces bonus and penalty clauses. H: H. Quimby. Eng N 93:989-90 D 18 '24; Discussion. A. S. Milinowski. Eng N 94:165 Ja 22 '25
Time required to prepare bids. Am Arch 128: 142 Ag 12 '25
Uniform contracts a public service. R. C. Marshall, jr. Eng & Contr (R & S) 62:287-91 Ag 6 '24; Same abr. Good Roads 66:70-2 Mr '24; Same. Munic & Co Eng 66:292-6 Je '24
Wanaque reservoir bids; cost-plus-percentage fee contract. Pub Works 55:94 Mr '24

See also Building contracts; Contracts, Government; Estimates; Heating contracts; Roads—Contracts

CONTRAPROPELLER. See Propellers

CONTROL boards
Control that makes possible our 30-day turn. R. J. Reiser. il Factory 34:62-5 Ja '25
Enter order—when will you ship? H. S. Riggs. Management & Adm 9:254-5 Mr '25
A glance and I know. C. I. Auten. il System 48:291+ S '25
How we maintain a smooth flow of production. E. F. Roberts. il Factory 33:794-7+ D '24
Production control board. il Management & Adm 8:426 O '24
Signals in the shop to speed production. C. J. Priebe. il Am Mach 61:731-4 N 6 '24
Simple method for dispatching maintenance jobs. A. F. Graves. il Factory 35:384-6+ S '25
These planning boards are movable. R. W. Marshall. il Factory 33:649 N '24
Workable production control system: Edison phonograph works. E: Davis. il Am Mach 60:753-7, 835-8, 911-14; 61:7-10 My 22, Je 5, 19, Jl 3 '24

CONTROL jumpers. See Electric railroads—Control jumpers

CONTROLLERS, Electric. See Electric controllers

CONVENTION dates. See Trade associations

CONVENTIONS
Behind the scenes in the convention industry. A. E. Haase. Ptr Ink 132:41-2+ Jl 9; 89-92 Jl 16 '25
Conventions—good and bad. D. A. Skinner. Nation's Business 12:70-1+ My '24
How the Division of simplified practice plans conferences with organized trade bodies. C. L. Barnum. Taylor Soc Bul 9:203-24 O '24

See also Business conferences; Sales conventions

CONVENTIONS, Political. See Political conventions

CONVERSE rubber shoe company
My test of good management. M. M. Converse. il System 45:640-1 My '24

CONVERSION chart. See Charts (calculating)

CONVERTERS
Leistungsfähigkeit von konverteranlagen. E. Herzog. Stahl & Eisen 45:1122-5 Jl 9 '25
Neues verfahren zur herstellung von konverterböden auf rüttelmaschinen. F. Diesfeld. diags Stahl & Eisen 45:259-61 F 19 '25
Use of the small converter for the production of large steel castings. C. Vanzetti. Iron & Steel Inst J 108:59-67, pl 1-2; Discussion. 68-9 no 2 '23

See also Bessemer process; Foundry practice; Metallurgy; Ore treatment

CONVERTERS, Electric
Operation of converting apparatus. V. E. Johnson. diags Power Pl Eng 28:855-7, 952-4 Ag 15, S 15 '24

See also Electric current inverters

CONVERTERS, Synchronous
Automatic synchronous converter equipment at the Dennison manufacturing company. W. S. Fitch. il Gen Elec R 28:398-403 Je '25
Der Calverley-Highfield-umformer. A. Marschall. il diags Zeit Ver Deutsch Ing 68: 1061-2 O 4 '24
Effect of brush drop on circulating currents in converters. J: W. Jones. diags Elec W 84: 272-3 Ag 9 '24
Electric transverter at the British Empire exhibition. il Engineer 137:533-5 My 16 '24; Engineering 117:563-6, pl 55-6 My 2 '24; Power Pl Eng 28:704-5 Jl 1 '24; Discussion. Engineering 117:649, 669, 712, 744, 796 My 16-Je 6, 20 '24
English-electric transverter; theoretical and technical details of the Calverley-Highfield patents. il diags Electrician 92:567-9+ My 9 '24; Elec R (Lond) 94:1047-8 Je 27 '24; Discussion. Electrician 92:601, 699 My 16, Je 6 '24; Elec R (Lond) 94:790-1 My 16 '24
Flash guards for 60 cycle railway converters. R. H. Newton. il Elec J 21:105-6 Mr '24
Flashover difficulties in rotary converters. E. S. Howe. Elec W 84:70 Jl 12 '24
How power factor was improved by using rotary converter as synchronous condenser. R. W. Drake. il Ind Eng 83:262-4+ Je '25
Motor converters v. rotary converters. G: Wüthrich. Electrician 95:503 O 30 '25; Same. Elec R (Lond) 97:718 O 30 '25
New rotary converters in Liverpool substations. il Engineer 139:390 Ap 3 '25
Operation of converting apparatus. V. E. Johnson. diags Power Pl Eng 28:952-4, 1059-61, 1148-51, 1255-7 S 15, O 15, N 15, D 15 '24
Operation of synchronous converters at reduced voltages. E. B. Shand. Elec J 21: 545-8 D '24

CONVERTERS, Synchronous—*Continued*
Rotary and other converters. W. W. S. Ibbetson. 163p Spon '24
Schalter und sicherheitsvorrichtungen zum selbsttätigen betriebe eines einanker-umformers mit asynchronem anlauf. F. Kästner. il diag Elektrotech Zeit (special no.) 45:18-19 Ag 28 '24
Shunt operation of rotary converters in substations effective. R. J. Saulsbury. diag map Elec Ry J 62:815-17 N 10 '23
Synchronous rotary converters. diags Power Pl Eng 29:35-8 Ja 1 '25

See also Frequency changers

Ventilation

Developments in substation practice in San Francisco. J. E. Woodbridge. il plan Elec Ry J 65:573-6 Ap 11 '25

CONVEYANCING

See also Escrows; Fixtures (law)

CONVEYING machinery
Abraumförderbrücken im braunkohlentagebau. W. Ries. il diags Zeit Ver Deutsch Ing 69:947-54 Jl 18 '25
Adaptability of the overhead conveyor. M: W. Potts. il diag plan Ind Management 66:292-9 N '23
Arranging machines and conveyors for flexible production schedules. W: Bailey. il plans Am Mach 62:257-60 F 12 '25
Belt conveyor handles concrete for large aqueduct. il diags Eng N 94:149-51 Ja 22 '25
Belt conveyor idlers with roller bearings. il Chem & Met Eng 31:863-4 D 1 '24
Belt conveyors build Wanaque dam embankment and core wall. il diag plans Eng N 95:256-8 Ag 13 '25
Belt conveyors used in placement of stone on mat revetment. il Eng N 92:620 Ap 10 '24
Belt conveyors well suited for hoisting coal from shallow mines. A. F. Brosky. Coal Age 24:917-21 D 20 '23
Belt conveys loose cement from storage shed to mixer. J. F. Laboon. plan Eng N 92:293 F 14 '24
Belt rides on wheels in new-type sectional coal face conveyor. A. F. Brosky. il Coal Age 28:112-13 Jl 23 '25
Bread cooling conveyor. G: F: Zimmer. il Ind Management (Lond) 10:256-8 N 1 '23
Coal face conveyors. A. V. Reis. il diags plans Cassier's Ind Management 12:247-51+ Ap '25
Combined gravity bucket and rope conveyors for installations of small capacities. diags Cassier's Ind Management 12:301-2 My '25
Continuous versus intermittent conveyors and handling methods. G. F: Zimmer. Cassier's Ind Management 11:77-80 F 7 '24
Continuous worm conveyors employed in the thick bleaching system. diags Cassier's Ind Management 11:108-9 F 21 '24
Conveyance of materials—varying degrees of perfection reached in systems now in use. W. L. Carver. il Automotive Ind 53:484-91 S 24 '25
Conveyers; power, gravity, pneumatic, portable. il Factory 35:254-7 Ag '25
Conveyers saved nearly a million the first year; the Fisk rubber company. J. D. Anderson. il Factory 34:915-18+ Je '25
Conveying bales of cork during boiling process. diag Cassier's Ind Management 12: 414 Ag '25
Conveying imported fruit and vegetables in Covent Garden. il plan Cassier's Ind Management 12:403-4 Ag '25
Conveying sub-assemblies in the Oakland plant. H. Campbell. il diags Am Mach 60: 831-3 Je 5 '24
Conveying system at the Winnsboro mills. C: M. Mumford. il Textile World 66:637+ Ag 2 '24
Conveying under difficulties in a cake bakery. G: F: Zimmer. diags Cassiers Ind Management 11:189-92 Ap 3 '24
Conveyor installation in a fiber-box plant. il Management & Adm 8:302 S '24
Conveyor system in aluminum foundry. il Iron Age 114:843-4 O 2 '24
Conveyor system in continuous motion; handles windshield frames into tanks and through ovens without pause. il Iron Age 112:1594-5 D 13 '23
Conveyor system that revolutionized a cotton mill. R. T. Kent. il diag Management & Adm 7:411-16 Ap '24
Conveyor weighing in industry. il Management & Adm 7:544 My '24
Conveyors handle chewing gum. W. B. Ranney. il Management & Adm 8:387-90 O '24
Conveyors—mechanical hands for industry. il Chem & Met Eng 32:20 Ja 5 '25
Conveyors to handle forgings and scrap. il Iron Age 113:1711-12 Je 12 '24
Cutting costs by the use of conveyors. F. H. Colvin. il Am Mach 60:969-71 Je 26 '24
Economies effected by conveyor systems. il Mach 30:390-1 Ja '24
Efficient bulk storage of chemicals in powdered form. G: F. Zimmer. diags Chem Age (Lond) 11:210-11 Ag 30 '24
Electrical control of gravity bucket conveyors. plan Ind Management (Lond) 10:340-1 D 13 '23
Elimination of accidents by the use of conveyors. F. D. Campbell. Safety Eng 47:98-100+ F '24; Same. Nat Safety N 9:41-2 Mr '24; Same cond. Blast F & Steel Pl 12:191-2+ Ap '24
Face conveyors work better in longwall mining than with half-V plan at Sweetwater. il diag Coal Age 28:521-3 O 15 '25
Four-mile belt line carries 9,426 tons of coal in one day at Frick company mine. T: W. Dawson. il Coal Age 26:897-905 D 25 '24
Four pieces of conveying machinery. il Eng & Contr (Equip R) 61:234-5 Ja 30 '24
Frick conveyor system proves its efficiency. diags plan Coal Age 28:426-8 S 24 '25
Fuller-Kinyon system of conveying pulverized coal and other materials. il plan Cassier's Ind Management 11:103-6 F 21 '24
Gigantic belt conveyor. M. W. von Bernewitz. Eng & Min J 119:204 Ja 31 '25
Gravity conveyors for the shipping room. il Chem & Met Eng 31:862 D 1 '24
Gravity conveyors in the machine shop. M: W. Potts. il diags Mach 30:331-7 Ja '24
Handles castings on gravity carriers. il Iron Tr R 75:598-9 S 4 '24; Same. Foundry 52: 595 Ag 1 '24
Handling raw material. il diags plans Brick & Clay Rec 67:185-90 Ag 4 '25
Handling slag for East Sparta sludge beds. il Pub Works 56:383-4 O '25
Has the continuous conveyor a place in metal mines? A. B. Parsons. il Eng & Min J 120:45-50 Jl 11 '25
Hauptschacht-gefässförderungen. L. Schütt. il diags Zeit Ver Deutsch Ing 68:665-71, 729-31 Je 28, Jl 12 '24
Hog-fuel conveyors. A. C. Sullivan. Mech Eng 47:553-4 Jl '25
Importance of feeders for conveyors. M: W. Potts. diags Ind Management 69:56-62 Ja '25
Improved belt conveyor carriers. il Iron Age 114:1070 O 23 '24
Increasing production by power conveyors. C: O. Herb. il diag Mach 30:706-9 My '24
Light weight features new type of conveyor chain. il diags Automotive Ind 51:694 O 16 '24
Longest belt conveyor. il Cassier's Ind Management 12:285-7 My '25
Longest belt conveyor in the world; Frick coke co. il Chem & Met Eng 32:159 Ja 26 '25
Lowering coal down hillsides with minimum breakage. M. L. O'Neale. il diags Coal Age 25:715-21 My 15 '24
Machinery must be substituted for hand labor; handling cheese. C. H. Kraft. il Factory 35:372-3+ S '25
Magnetized roller conveyor; abstract. H. Holles. Mech Eng 46:557 S '24
Material handling for high speed, straight-line flow of work; new plant of the San Francisco chronicle. M. Wayman. il Management & Adm 9:425-8 My '25

CONVEYING machinery—*Continued*
Material handling in a plant making a diversified product. H. C. Perkins. il Factory 33: 654-7+ N '24
Mechanical conveying in sugar refineries. Ind Management (Lond) 10:254-5 N 1 '23
Mechanical handling of materials. F. H. F. Hampton. Gas J (Lond) 166:394-5 My 7 '24
Modern methods of conveying work. il Am Mach 61:772-3 N 13 '24
Modern ways of handling materials by means of conveying machinery. R. Brennan. il Dun's Int R 46:51-5 N '25
Morris hand overhead runway system. il Am Mach 63:602-3 O 8 '25
Neuzeitlicher massentransport mit dauerförderern. Buhle. diags Zeit Ver Deutsch Ing 68:777-81 Jl 26 '24
New wood conveyor and stacker in Finland. il Paper Tr J 77:51-2 D 27 '23
Overhead carrying systems. il Factory 35:272-3 Ag '25
Place slag in sewage beds by belt conveyors. il Eng N 95:518-19 S 24 '25
Portable conveyors in mining service. il Coal Age 27:830-2 Je 4 '25
Power conveyors in the automobile plant. il Mach 30:541-3 Mr '24
Recording coal and ash weights while conveying; Messiter conveyor scale. il Power Pl Eng 29:1029 O 1 '25
Revolution in processes and costs. H. Hermani and C. E. Sifton. il Factory 35: 553-6+ O '25
Rugged all-steel sectional portable conveyor co-ordinates mining and haulage. il diags plan Coal Age 25:669-72 My 8 '24
Savings in material handling. G: E. Hagemann. Management & Adm 9:51-4 Ja '25
Savings made with variable-speed transmissions on an assembly conveyor. Ind Eng 83:202 Ap '25
Shaking conveyor eases labor in pitching coal. R. D. Hall. il diags plan Coal Age 28:657-9 N 12 '25
Simpler methods of moving materials. Published in monthly numbers of Factory for 1924
Slat conveyors with handling distance of 332 ft. il Cassier's Ind Management 11:138-9 Mr 6 '24
Speed of belt conveyors. Eng & Min J 119: 694 Ap 25 '25
Speeding up production and packing by steel belt conveyors. il Cassier's Ind Management 12:125-6 Ja '25
Steel-belt conveyors. Gas J (Lond) 165:371-2 F 13 '24
Unique distribution of filter material. il Eng & Contr (W W) 64:845-6 O 14 '25
Unique portable flexible conveyor. il Manuf Rec 86:91 O 23 '24
Use of conveyors in chemical works. H. Seymour. Chem Age (Lond) 9:565-6 N 24 '23
Using conveyors in small plants. H. P. Harrison. il Iron Tr R 73:1428-32 N 22 '23
Wanaque dam construction. il Pub Works 56: 349-52 O '25
We cut elevator and shipping costs with conveyers. R. W. Wagner. il System 48:98+ Jl '25

See also Ash handling; Cableways; Coal handling; Cranes, derricks, etc.; Freight handling; Hoisting machinery; Launders; Loading and unloading; Mail handling; Mechanical handling; Mine haulage; Mine hoisting; Ore handling; Pneumatic conveying; Runways; Telpherage

Costs

Cost of operating link-belt conveyor. G: E. Hagemann. Management & Adm 7:694 Je '24
Materials handling methods that have added to industrial profits; experience data from 55 plants. G: E. Hagemann. Management & Adm 7:557-62 My '24

History

Historical review of conveying devices. bibliog il diags Cassier's Ind Management 12: 8-12 Ja '25

Specifications

Specifications for gravity roller spirals conveyor. Am Arch 127:sup12+ F 25 '25
Specifications for screw or spiral conveyor. Am Arch 127:sup16 F 25 '25

CONVICT labor
Conference of committee on allocation of prison industries. Monthly Labor R 19:706-7 S '24
Convict labor in 1923. U S Bur Labor Statistics Bul 372:1-265 '25; Excerpts. Monthly Labor R 18:699-731 Ap '24
Employment of federal prisoners. 39p (U.S. Congress. Joint committee to determine what employment may be furnished federal prisoners) Govt. ptg. off., Washington '23
Establishment of convict labor system in Utah. Monthly Labor R 19:450-1 Ag '24
Fighting unfair competition. F. A. Fall. Credit M 27:22+ Mr '25
Garment trade combats prison competition. Ptr Ink 131:120 My 28 '25
How manufacturers can compete with prison-made goods. J: A. Murphy. Ptr Ink 130: 3-4+ F 12; 144+ F 26 '25
Is convict labor a real menace to the printing industry? M. Heir. Inland Ptr 73:883-4 S '24
Labor laws and court decisions; convict labor. Monthly Labor R 18:655-6 Mr '24
Self-supporting prisons. E. S. Whitin. Ann Am Acad 113:131-5 My '24
What shall we do with the convict's labor? Nation's Business 13:37 F '25
Why advertising and prison-made goods don't mix well. Ptr Ink 131:33-4+ Je 11 '25
Why there's no money in overalls. F. H. Williams. Textile World 66:3710+ D 27 '24

See also Roads—Convict labor

Bibliography

Recent references on convict labor. E. L. Stone, comp. Monthly Labor R 21:867-86 O '25

COOK books
Too many recipe books? N. Lewis. Ptr Ink 131:105-6 Ap 9 '25

See also Advertisements—Cook books and recipes

COOK laboratories
We avoided expensive mistakes by borrowing ideas. J: MacGregor. il Factory 32:477-9+ Ap '24

COOKERY
Comparative costs of fuels for home cooking. B. M. Allen. Gas Age 56:335-6+ S 5 '25
How radio is lifting the level of American women's cookery. C. Frederick. il Radio N 6:1635+ Mr '25
Radio schools of housewifery. C. Frederick. il Wireless Age 12:36-8+ F '25
Selecting the best fuel for commercial cooking. J. W. Cohn. il Gas Age 53:541-2+ Ap 19 '24; Same cond. Am Gas J 120:289-90+ Mr 29 '24

See also Advertisements—Cook books and recipes; Bakers and bakeries; Baking; Biscuits; Canning and preserving; Electric cooking; Gas cooking; Kitchens

COOKIE cutters

Manufacture

Pattern for rolling cookie cutter. W: A. Bottoms. il diags Sheet Metal Worker 15:462+ Jl 4 '24
Ten cookie cutters per minute. K. H. Crumrine. il diags Am Mach 60:535-7 Ap 10 '24

COOKIES

Manufacture

Automatic biscuit making machinery at the British Empire exhibition. il (supp) Engineer 138:6-7 Jl 4 '24

COOKING utensils. See Kitchen utensils

COOLIDGE, Calvin
Address at Associated press luncheon. Comm & Fin Chr 118:1990-2 Ap 26 '24
Address at celebration commemorating assumption of command of army by George Washington. Comm & Fin Chr 121:149-52 Jl 11 '25
Address at Norse-American centennial. Comm & Fin Chr 120:3018-20 Je 13 '25
First post-election address. Comm & Fin Chr 119:2248-50 N 15 '24
Inaugural address. Comm & Fin Chr 120: 1159-61 Mr 7 '25; Excerpts. Ry R 76:481-2 Mr 7 '25
Labor Day address. Comm & Fin Chr 119: 1127-9 S 6 '24
Memorial day address. Comm & Fin Chr 120:2889-91; Discussion. 2865-6 Je 6 '25
Message of President Coolidge to Congress. Comm & Fin Chr 117:2491-4 D 8 '23
Message of President Coolidge to Congress. Comm & Fin Chr 119:2601-5 D 6 '24
Mr Coolidge and American business. J: C. O'Laughlin. Nation's Business 12:17-19 Mr '24
Platform of business principles. Nation's Business 12:35-7 D '24
President Coolidge and the laboring man. Monthly Labor R 20:980-1 My '25
President Coolidge, deploring lack of respect for law, declares religion is only adequate remedy for evils. Comm & Fin Chr 121:1994-6 O 24 '25
President Coolidge in address to graduating class at Annapolis, says navy cannot succeed by force. Comm & Fin Chr 120:3016-17 Je 13 '25
President Coolidge on breaking down of functions of parenthood. Comm & Fin Chr 121: 2115-16 O 31 '25
President Coolidge's first message. C: H. Winter. Am Ind 24:23, 26-8 Ja '24
Speech of President Coolidge before National Republican club. Comm & Fin Chr 118:741-3 F 16 '24

COOLING
Central cooling. H. W. Corbett. Am Arch 128: 159 Ag 12 '25
Convective cooling in liquids—some thermal conductivity data. A. H. Davis. Philos Mag 6th ser 47:972-5 My '24
Convective cooling of wires in streams of viscous liquids. A. H. Davis. diags Philos Mag 6th ser 47:1057-92 Je '24
Cooling and conditioning of air. H. J. Macintire. diags plans Chem & Met Eng 32:437-42 Ap '25
Cooling effect on human beings produced by various air velocities. F. C. Houghten and C. P. Yaglogiou. il charts Am Soc Heat & V E J 30:169-84 F '24; Discussion. 30:270-3 Mr '24
Cooling of air. J. R. Preston. chart Heat & Ven 20:47-50 N '23
Cooling of air; mechanical refrigeration installation in a chocolate-dipping factory. H. J. Macintire. chart diags Heat & Ven 21:44-7 My '24
Cooling of theatres and public buildings. H. J. Macintire. plans Heat & Ven 22:49-52 Je '25
Cooling system for central-station offices. J. S. Moulton. il Elec W 85:155-6 Ja 17 '25
Cooling the Rivoli theatre. il Refrig W 60:9-11 Ag '25
Dependence on pressure of the adiabatic cooling of some organic substances. N. A. Pushin and E. V. Grebenshchikov. Chem Soc J 125:2043-8 O '24
Dry-cooling coke with inert gas. C. H. S. Tupholme. il diags plans Chem & Met Eng 31:574-5 O 13 '24
Heat dissipation from the surfaces of pipes and cylinders in an air current. A. H. Gibson. Philos Mag 6th ser 47:324-36 F '24
How external air cooling increases the effectiveness of condenser-tube surface. P. Bancel. il diag Power 59:769-71 My 13 '24
Laundry trade; atmospheric conditions in laundries. M. Smith. J Ind Hygiene 7:166-70 Ap '25
Principles of ventilation in hot industries. K. J. Fanshier. Gas Age 56:671-2+ N 7 '25
Refrigerating by indirect methods. G. R. Wray. Power Pl Eng 28:815 Ag 1 '24
Summer ventilation and cooling of office buildings. P: H. Bryce. Heat & Ven 21: 56-7 Ag '24

See also Automobile engines—Cooling; Bread—Cooling; Cold storage; Cooling of water; Cooling ponds; Cooling towers; Cooling water; Cryostats; Diesel engines—Cooling; Electric generators—Cooling; Electric generators, Alternating current—Cooling; Electric machinery—Cooling; Electric transformers—Cooling; Gas and oil engines—Cooling; Heat convection; Lubrication and lubricants; Milling cutters—Cooling; Oil coolers; Quenching; Refrigeration and refrigerating machinery; Refrigerators

COOLING of fruits and vegetables
Cold air solves California's market problem. F. D. Nichol. Forbes 14:495-6 Jl 19 '24
Precooling of fruits and vegetables. J. W. Andrews. Refrig Eng 11:143-6+ O '24

COOLING of water
Adiabatic cooling of water and the temperature of its maximum density as a function of pressure. N. A. Pushin and E. V. Grebenshchikov. diag Chem Soc J 123:2717-25 N '23
B. F. Goodrich company method of water cooling. il Management & Adm 8:527-8 N '24
Circulating ice water. E. W. Riesbeck. il Dom Eng 112:19-20+ Jl 18 '25
Cooling water for tire vulcanizers. il India Rubber W 70:583-4 Je '24; Rubber Age 14: 456-7 Mr 25 '24
Drinking-water systems. H. J. Macintire. diags plans Power 59:254-5 F 12 '24; Same. Eng & Contr (Bldgs) 62:671-3 S 24 '24; Discussion. L. W. Lowere. Power 59:654 Ap 22 '24
Spray system of cooling water. Factory 35: 290+ Ag '25
Water-cooling-system efficiency. V: J. Azbe. Mech Eng 46:799-805 pt 2 N '24; Same. Refrig Eng 11:313-20 Mr '25; Discussion. Mech Eng 47:332-3 My '25; Refrig Eng 11:320-4 Mr '25

COOLING ponds
Importance of nozzle arrangement in spray ponds. M. F. Stack. Power Pl Eng 28:1219 D 1 '24
Novel cooling pond. E. J. Rowe. plans Am Water Works Assn J 13:619-21 Je '25; Same. Eng & Contr (W W) 64:69-71 Jl 8 '25
Spray cooling systems for ammonia condensers. C. R. Kranz. diag plan Power Pl Eng 29:1015 O 1 '25
Spray pond equipment installed under difficulties. T. Baker. il Power Pl Eng 28:913-14 S 1 '24
Spray-pond installation of the Fort Worth power and light co. F. H. Rosencrants. il plan Power 59:89-90 Ja 15 '24

COOLING towers
Analysis of cooling tower operation. C. S. Robinson. Refrig Eng 10:201-4 D '23; Same. Refrig W 58:13-17 D '23
Data on cooling towers. J: B. Rathbun. Pet Age 15:58+ Ap 15 '25
Neue bauart von kühltürmen. Barck. il diags Zeit Ver Deutsch Ing 69:18-20 Ja 3 '25
Power station cooling towers. Can Eng 49: 209 Ag 11 '25
Theory of cooling towers compared with results in practice. B. H. Coffey and G: A. Horne. Refrig Eng 11:187-92; Discussion. 192-4+ D '24

COOLING towers, Concrete
Tours de refroidissement d'eau de condensation, en béton armé, en forme d'hyperboloïde. il diags Génie Civil 87:47 Jl 11 '25

COOLING water
Addition of chlorine gas to cooling water; abstract. Soc Dyers & Col J 40:295-6 S '24

COOLING water—*Continued*
Tests on a cooling-water evaporator. L. Heuser and H. Kanzler. diags Mech Eng 47:931 N '25

COOPERATION
Cooperation. Published in monthly numbers of Monthly labor review
4th congress of the Cooperative league. Monthly Labor R 19:1368-75 D '24
Geschichte der internationalen genossenschaftsbewegung. H. Müller. 276p H. Meyer, Halberstadt '24
Management of cooperative stores. Monthly Labor R 20:176-7 Ja '25
People's corporation. K. C. Gillette. 237p Boni and Liveright, New York '24
Will co-operative societies help solve distribution problem? Ptr Ink 130:141-2+ F 12 '25

See also Advertising, Cooperative; Agriculture, Cooperative; Apartment houses—Cooperative ownership; Banks and banking, Cooperative; Benefit societies; Building and loan associations; Credit unions; Employees' representation in management; Industrial management; Insurance, Cooperative; International cooperative alliance; Marketing, Cooperative; Profit sharing; Purchasing, Cooperative; Rochedale system; Socialism; Trade unions; *also* Central states cooperative league

Bibliography

Cooperative movement: a selected bibliography. F. E. Parker. Monthly Labor R 20: 659-90 Mr '25

Law

Cooperative legislation in the United States. Monthly Labor R 20:420-9 F '25

Europe

Present position of the cooperative movement in Europe. H. Thompson. Monthly Labor R 19:672-7 S '24

France

Les coopératives de consommation en France. B. Lavergne. 216p A. Colin, Paris '23

Germany

Cooperation in foreign countries: Germany. Monthly Labor R 19:470-2 Ag '24

Great Britain

British co-operative movement. Economist 98:1246-7; 100:1285-6; 101:7-8, 569 Je 21 '24, Je 27-Jl 4, O 10 '25
Edward Owen Greening; a maker of modern cooperation. T. Crimes. 103p T. F. Unwin, ltd., London; Co-operative union ltd., Manchester, Eng. '24

Illinois

Condition of the cooperative movement in Illinois. Monthly Labor R 20:1164-6 My '25
Co-operative chain stores of the Illinois miners. C. E. Warne. Univ J of Business 2: 310-27, 432-54 Je-S '24

India

Cooperation in foreign countries; India. Monthly Labor R 18:1359-62 Je '24

Japan

Co-operative movement in Japan. K. Ogata. 362p P. S. King & son, London '23

Netherlands

Cooperation in foreign countries: Netherlands. Monthly Labor R 18:1362-3 Je '24

Russia

Co-operation in Russia during the war. S. W. Borodaewsky. Int Labour R 10:263-76 Ag '24
Co-operation in soviet Russia. M. Prokopovitch. Int Labour R 10:411-34 S '24
Cooperative conditions in Russia. Monthly Labor R 20:1166-70 My '25
Co-operative movement in Russia. E. T. Blanc. 324p Macmillan '24

Sweden

Swedish ministry of social affairs report. Monthly Labor R 21:632-5 S '25

COOPERATION, International. See International cooperation

COOPERATIVE agriculture. See Agriculture, Cooperative

COOPERATIVE associations
Financing the cooperatives. O. J. Sands. Am Bankers Assn J 18:156+ S '25
Sales of cooperative wholesale societies in 1923. Monthly Labor R 19:218-20 Jl '24

Directories

International directory of co-operative organisations. 94p 40c International labour office, Geneva '24

COOPERATIVE banking. See Banks and banking, Cooperative

COOPERATIVE buying. See Purchasing, Cooperative

COOPERATIVE insurance. See Insurance, Cooperative

COOPERATIVE marketing. See Marketing, Cooperative

CO-OPERATIVE society of America
Co-operative society of America. C. E. Warne. 22p Univ. of Chicago press '24

COOPERATIVE stores. See Cooperation

COORDINATES
Choice of coordinates in the evaluation of quantum integrals. J. H. Van Vleck. Phys R 22:547-51 D '23
Strain components in curvilinear coordinates. A. W. Conway. Philos Mag 6th ser 49: 511-12 F '25

COORDINATION (chemistry)
Atomic structure and co-ordination number. J. D. Main Smith. Soc Chem Ind J (Chem & Ind) 44:944-7 S 25 '25
Attempts to prepare fluocarbonate and their bearing upon the coördination number of carbon. J. H. Hildebrand, H. B. Merrill and J. Simons. Am Chem Soc J 46:2225-6 O '24
Co-ordination and acidity. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 42:1048-52 N 2 '23
Co-ordination and conjugation; mixed bond, definitions and rules. E. B. R. Prideaux. Soc Chem Ind J (Chem & Ind) 44:25-8 Ja 9 '25
Co-ordination of organic molecules. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 43: 218-21 F 29 '24
Co-ordination theory in its application to the study of mordant dyes. G. T. Morgan and J. D. Main Smith. Soc Dyers & Col J 41: 233-40; Discussion. 240-1 Jl '25
Researches on residual affinity and coordination; a quadridentate group contributing four associating units to metallic complexes. G. T. Morgan and J. D. Main Smith. Chem Soc J 127:2030-7 S '25
Researches on residual affinity and co-ordination; boron β-diketone difluorides. G. T. Morgan and R: B. Tunstall. Chem Soc J 125:1963-7 S '24
Researches on residual affinity and co-ordination; chromic and cobaltic lakes of mordant azo-dyes. G. T. Morgan and J. D. Main Smith. Chem Soc J 125:1731-9 S '24
Researches on residual affinity and coordination; heats of chelation of dithiolated metallic halides. G. T. Morgan, S. R. Carter and W: F. Harrison. Chem Soc J 127:1917-25 S '25
Researches on residual affinity and co-ordination: interactions of germanium tetrahalides and β-diketones. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:1261-9 Je '24
Researches on residual affinity and co-ordination; interactions of trimethyistibine and platinic and palladous chlorides. G. T. Morgan and V: E. Yarsley. diag Chem Soc J 127: 184-90 Ja '25
Researches on residual affinity and co-ordination; interactions of zirconium salts and β-diketones. G. T. Morgan and A. R. Bowen. Chem Soc J 125:1252-61 Je '24

COORDINATION (chemistry)—*Continued*
Researches on residual affinity and coordination; optically active salicylatocobalt diethylenediammines. G. T. Morgan and J. D. M. Smith. Chem Soc J 125:1996-2004 O '24
Researches on residual affinity and co-ordination; stannic derivatives of β-diketones. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:372-81 F '24
Theory of co-ordination and the Lewis-Langmuir structure of the atom. C. J. Brockman. Soc Chem Ind J (Chem & Ind) 43: 756-9 Jl 25 '24

COPAL
Oil from kauri copal. A: H. Gill and D. Nishida. Ind & Eng Chem 15:1276-7 D '23

COPAL gum
Some notes on copal gum. W. M. Myers. Chem & Met Eng 31:702 N 3 '24

CO-PARTNERSHIP
Copartnership and profit-sharing plans in Great Britain in 1924. Monthly Labor R 21: 639-40 S '25
Profit-sharing and co-partnership in France. Int Labour R 9:398-403 Mr '24
Report of British copartnership productive societies, 1924. Monthly Labor R 21:853-4 O '25
Report of British labor copartnership association, 1922. Monthly Labor R 17:1418-19 D '23

COPENHAGEN
City of Copenhagen bonds. Moody's Inv Serv 16:352 S 18 '24

COPPER
Action of iron on copper. F. Siebe. Engineer 140:sup127-8 Ag 28 '25
Action of natural waters on metallic copper. H. Henstock. Soc Chem Ind J 44:219-20 My 8 '25
Advances in production of copper and its alloys. W. H. Bassett. Brass W 20:358-60 O '24
Approximate determination of the depth of compression in copper bars during impact. E. W. Tschudi. Phys R 26:125-32 Jl '25
Arc spectra of silver and copper. A. G. Shenstone. diags Philos Mag 6th ser 49:951-62, pl 9 My '25
Catalytic combination of ethylene and hydrogen in the presence of metallic copper; carbon monoxide as a catalyst poison. R. N. Pease and L. Stewart. Am Chem Soc J 47:1235-40 My '25
Coloring glasses with copper. Kitsuzo Fuwa. Am Cer Soc J 8 (Cer A 4):65-6 Mr '25
Comparison of monel and copper kettles in boiling linseed oil. C. Fichandler. Ind & Eng Chem 17:478-80 My '25
Copper; an outline of the processes between ore and finished product. Brass W 20:399 N '24
Copper and brass for the electroplater. H. H. R. Spofford. Brass W 20:212 Je '24
Copper and electricity. N. R. Stansel. il Gen Elec R 27:214-26 Ap '24
Copper as reducing agent in iron determinations. J. M. Hendel. Ind & Eng Chem 16: 951 S '24
Copper conductivity improved. il Iron Tr R 76:287 Ja 22 '25
Copper which bends only one way. il Foundry 52:929-30 D 1 '24; Same. J Fr Inst 199:138-9 Ja '25; Abstract. Management & Adm 8: 650 D '24
Corrosion of copper and copper alloys. U. R. Evans. diags Soc Chem Ind J 43:127-31 My 2 '24
CuH molecule and its band spectrum. H. Bell. Philos Mag 6th ser 49:23-32 Ja '25
Effect of drops of H_2S solution on copper. U. R. Evans. Brass W 21:56 F '25
Electrical resistivity of copper. A. L. Norbury. Engineering 119:319 Mr 13 '25
Electronic bombardment of metal surfaces. H. E. Farnsworth. diags Phys R 25:41-57 Ja '25
First use of metals; copper and bronze. T. A. Rickard. Eng & Min J 117:602-4 Ap 12 '24
Hardened copper myth. E: D. Gleason. Metal Ind 22:352-3 S '24
Heat transmission in jacketed kettles; a comparative study of over-all coefficients of heat transmission in cast-iron, lead-lined and copper steam-jacketed kettles. H. L. Olin, B. S. Southwick and H. M. Prince. il Chem & Met Eng 32:370-2 Mr '25
How a copper-to-steel bond is made, with tests proving its efficiency and endurance. J. B. Austin. il diags Coal Age 26:330-4 S 4 '24
How metals stand up against corrosion. Chem & Met Eng 31:71-2 Jl 14 '24; Excerpts. Brass W 20:270-1 Ag '24
Hydrogenation of benzene in the presence of metallic copper. R. N. Pease and R. B. Purdum. diag Am Chem Soc J 47:1435-42 My '25
Impurities in copper; effect on castings for electrical work. S. F. Barclay. Electrician 92:353 Mr 21 '24
New class of activated carbons; alkaline impregnated chars, peculiarly adapted for metal adsorption. R. H. McKee and P. M. Horton. Chem & Met Eng 43:56-9 Ja 12 '25
Pole lines occurring in the interrupted arc spectra of silver, gold, and copper. H. Lowery. Philos Mag 6th ser 48:1122-31, pl 27 D '24
Primitive copper industry of America. G: B. Phillips. il Brass W 21:300-2 S '25
Production of oxide-films on copper at ordinary temperatures; abstract. U. R. Evans. Soc Chem Ind J (Chem & Ind) 44:1048 O 23 '25
Promoting action of palladium on copper; catalytic combustion. W: W. Hurst and E. K. Rideal. Chem Soc J 125:685-94 Mr '24
Promoting action of palladium on copper; the adsorption of hydrogen and carbon monoxide. W: W. Hurst and E. K. Rideal. diag Chem Soc J 125:694-705 Mr '24
Radio industry requires much copper. Eng & Min J 117:1071 Je 28 '24
Reaction between copper and nitrogen peroxide. J. R. Park and J. R. Partington. diag Chem Soc J 125:72-82 Ja '24
Rekristallisation nach warmverformung. H. Hanemann and F. Lucke. Stahl & Eisen 45: 1117-22 Jl 9 '25
Relation between tarnishing and corrosion. U. R. Evans. il Am Electrochem Soc Trans v 46 (preprint 6):75-100 O '24
Relation between the tensile strength and the electrical resistivity of commercially pure copper. W. E. Alkins. Engineering 117:347 Mr 14 '24
Researching the field of brass and copper consumption. W: A. Willis. il Metal Ind 22: 1-2 Ja '24
Static potentials of copper in solutions of copper cyanide in sodium cyanide and in potassium cyanide, and of zinc in solutions of zinc cyanide in sodium cyanide. W. M. Walker, J. H. Sorrels and J. M. Breckenridge. Am Electrochem Soc Trans v 48 (preprint 12):113-24 S '25
Story of copper. W. Davis. 385p Century co. '24
Super-conducting copper. Soc Auto Eng J 17:286 S '25
Superconducting state of copper. W. P. Davey. Elec W 85:117 Ja 10 '25
Telephones take much copper and brass. Iron Tr R 76:1633 Je 25 '25
Tempered copper phantasies. A. Bregman. Metal Ind 23:279-81 Jl '25
Tests of commercial copper rod. T. G. Bamford. il Engineering 119:331-4 Mr 13 '25; Abstract. Iron Age 115:895+ Mr 26 '25; Discussion. Engineering 119:341 Mr 20 '25
Vergleichende zug-, druck-, dreh- und walzversuche. P. Lurwik and R. Scheu. Stahl & Eisen 45:373-81 Mr 12 '25

COPPER—*Continued*

What could we do without copper. T: D'A. Brophy. Am Ind 25:33-5 D '24

See also Brass; Bronze; Copper alloys; Copper founding; Copper industry and trade; Copper metallurgy; Copper mines and mining; Copper plating

Analysis

Determination of lead, copper, and tin in drosses. J: H. Hastings. Eng & Min J 118: 293-4 Ag 23 '24

Investigations on the platinum metals; the analytical separation of copper from the platinum metals. W: H. Swanger and E: Wichers. Am Chem Soc J 46:1814-18 Ag '24

New qualitative tests for copper, iron and cobalt. M. L. Nichols and S. R. Cooper. Am Chem Soc J 47:1268-70 My '25

Coloring

Coloring copper and bronze work. Sheet Metal Worker 15:281-2 My 9 '24

Copper tints. Brass W 21:25 Ja '25

Mottling and coloring copper. A. Eyles. Sheet Metal Worker 15:1044 Ja 30 '25

Cost

Cost of producing copper. A. Notman. Eng & Min J 120:171-4 Ag 1 '25; Discussion. W: S. Black. 120:341-2 Ag 29 '25

Mohawk copper production costs lowest in Michigan. Eng & Min J 120:64 Jl 11 '25

Price and value of copper. W: S. Black. Eng & Min J 119:802 My 16 '25

Production costs and results of Engels copper mining co. Eng & Min J 117:644 Ap 19 '24

Utah copper's mining and milling costs. Eng & Min J 117:888; 119:815 My 31 '24, My 16 '25

Prices

Copper, lead and rubber in 1924. Elec R (Lond) 96:86 Ja 16 '25

Price and value of copper. W: S. Black. Eng & Min J 119:799-802 My 16 '25; Discussion. H. R. Hanley. 120:622-3 O 17 '25

Trend of copper prices. R. C. Effinger. Analist 23:580 My 19 '24

Testing

Available data on the properties of non-ferrous metals and alloys at various temperatures. C. Upthegrove and A. E. White. Am Soc T M Pro 24 pt 2:88-127 '24

Comparative tests on some varieties of commercial copper rod. T. G. Bamford. Metal Ind 23:146 Ap '25

Endurance and inhomogeneities in non-ferrous metals. H. W. Gillett and E. L. Mack. diags Am Soc T M Pro 24 pt 2:531-5 '24

Resistance of copper at high temperature. P. Cloke. il Elec W 86:224 Ag 1 '25

Welding

Oxy-acetylene welding of copper. C. S. Smith. il Metal Ind 23:360-1 S '25

Welding copper to steel by electricity. C. H. S. Tupholme. Elec R (Lond) 96:731 My 8 '25

COPPER, Cold rolling of

Effect of progressive cold-rolling on the Brinell hardness of copper. H. Moore. Engineering 118:386-7 S 12 '24

COPPER alloys

Advances in production of copper and its alloys. W. H. Bassett. Brass W 20:358-60 O '24

Alpha-phase boundary in the copper-tin system. D. Stockdale. Engineering 120:331 S 11 '25

β-transformations in copper-zinc alloys; abstracts with discussion. J. L. Haughton and W. T. Griffiths. Engineering 120:298 S 4 '25; Engineer 140:245 S 4 '25

Copper and brass in the power house. W. G. Schneider. Power 62:365 S 8 '25

Copper manganese alloys. W: Campbell. Metal Ind 22:238-9 Je '24

Copper-zinc alloys which expand on solidification; abstract with discussion. K. Iokibe. Engineer 137:303-4 Mr 21 '24; Engineering 117:359-60 Mr 21 '24

Corrosion of copper alloys in sea water. W. H. Bassett and C. H. Davis. Metal Ind 23: 96-7 Mr '25; Abstract. Power 61:567 Ap 14 '25

Cutting cast-iron and copper alloys by the electric arc process. A. G. Bissell. il Mach 31:445-6 F '25

Density indicates soundness. T. G. Bamford. Foundry 52:352-4 My 1 '24

Electrodeposition of copper-nickel alloys. H. D. Hineline and W. B. Cooley. Am Electrochem Soc Trans v 48 (preprint 16):155-60 S '25

Endurance properties of alloys of nickel and of copper. D. J. McAdam, jr. Engineer 139: sup55-60 Ap 24 '25; Abstract. Eng N 94: 527 Mr 26 '25

Imita-gold, a new alloy. Power Pl Eng 29:565 My 15 '25

Metallography of non-ferrous metals. J. K. Wood. Am Mach 62:433-6 Mr 12 '25

New researches on various nickel brasses and their thermal treatments L. Guillet. Engineer 140:sup157-9 O 30 '25

Nomenclature of copper alloys. U S Bur Stand Circ 101:37-76 '24

Oxidation of copper-nickel alloys at high temperatures. N. B. Pilling and R. E. Bedworth. Ind & Eng Chem 17:372-6 Ap '25

Production of copper-calcium alloys. F: O: Bensel. Metal Ind 23:143 Ap '25

Silber-kupfer-legierungen für schmelzsicherungen (streifensicherungen). R. Edler. Elektrotech Zeit 45:1397-8 D 18 '24

Some electrical properties of copper-nickel-manganese alloys. N. B. Pilling. Am Electrochem Soc Trans v 48 (preprint 2):9-24 S '25

Tabular presentation of chemical and physical properties of corrosion-resisting alloys. Chem & Met Eng 31:79-83 Jl 14 '24

Les traitements thermiques de certains laitons au nickel. L. Guillet. Génie Civil 86: 489 My 16 '25

Volume occupied by the solute atoms in certain metallic solid solutions and their consequent hardening effects. A. L. Nordbury. Engineering 116:627 N 16 '23

X-ray studies of the copper-aluminium alloys; abstract with discussion. E. R. Jette. G. Phragmén and A. F. Westgren. Engineer 137:304 Mr 21 '24; Engineering 117:360-1 Mr 21 '24

See also Alloys; Aluminum bronze; Brass; Brazing; Bronze; Everbrite metal; Gun metal; Monel metal; Muntz metal; Nickel silver; Thermalloy

Testing

Accelerated corrosion tests of copper-zinc alloys by salt spray. W. H. Bassett and H. A. Bedworth. Ind & Eng Chem 17:346-8 Ap '25

Available data on the properties of non-ferrous metals and alloys at various temperatures. C. Upthegrove and A. E. White. Am Soc T M Pro 24 pt 2:88-127 '24

COPPER ammonium hydroxide

Measurement of the viscosity of solutions of cottons in aqueous cuprammonium hydroxide and its significance as a test of textile quality. F: D. Farrow and S. M. Neale. bibliog diags plan Textile Inst J 15:T157-72 Ap '24

Plasticity of cellulose in cuprammonium hydroxide. E. K. Carver and H. Folts. diags Am Chem Soc J 47:1430-4 My '25

COPPER ammonium sulfate

Equilibrium in the systems cupric sulphate—potassium sulphate—water and cupric sulphate—ammonium sulphate—water at 25°, 51°, and 61°. R. M. Caven and T: C. Mitchell. Chem Soc J 125:1428-31 Jl '24

COPPER and brass research association
Annual meeting, 4th, New York, Nov. 6. Iron Age 114:1273 N 13 '24; Comm & Fin Chr 119:2470-1 N 29 '24; Sanitary & Heat Eng 102:358-9 N 14 '24
Coordination as business builder. W: A. Willis. Am Ind 24:21-2 N '23
Work of Copper research association. G: A. Sloan. Sheet Metal Worker 15:246-7 Ap 25 '24

COPPER arsenate
See also Chalcophyllite

COPPER bearing steel. See Steel—Copper content

COPPER carbonate
Copper carbonate and seed disinfection. G. P. Hitchcock. Chem Rec Age 23:23 Mr 23 '25
Mechanism of the formation of malachite from basic cupric carbonate. J. R. I. Hepburn. il Chem Soc J 127:1007-13 My '25

COPPER carbonyl
Investigations on the supposed existence of copper carbonyl. E. Mond and C. Heberlein. Chem Soc J 125:1222-3 Je '24

COPPER chlorides
Influence of acid concentration on the oxidation-reduction potential of cuprous and cupric chlorides. S. R. Carter and F: M. Lea. Chem Soc J 127:499-510 Mr '25
Reaction between organomagnesium halides and cupric chloride. H: Gilman and H. H. Parker. Am Chem Soc J 46:2823-7 D '24

COPPER compounds
Concentration and polarization at the cathode during electrolysis of solutions of copper salts. W. L. Miller. il J Fr Inst 199:773-83 Je '25
Gelatinization of lignocellulose; action of dilute sodium hydroxide and cuprammonium solutions on the pentosans. A. W. Schorger. Ind & Eng Chem 16:141-4 F '24
Preparation and stability of cuprous nitrate and other cuprous salts in presence of nitriles. H. H. Morgan. Chem Soc J 123: 2901-7 N '23
Promotor action in homogeneous catalysis; mechanism of the promotion by copper salts in the catalytic decomposition of hydrogen peroxide by ferric salts. A. C. Robertson. Am Chem Soc J 47:1299-1314 My '25
Reaction between ferrous salts and cuprous salts. R. C. Wells. Am J Sci 5th ser 8:428-33 N '24
See also Copper oxides; Copper sulfate

COPPER ferrocyanide
Adsorption from salt solutions by colloidal copper ferrocyanide. M. Frankert and J: A. Wilkinson. J Phys Chem 28:651-8 Je '24
Ionic equilibria across semi-permeable membranes. N. Kameyama. Philos Mag 6th ser 50:849-64 O '25
Permeability of membranes. W. D. Bancroft and C: Gurchot. J Phys Chem 28:1279-83 D '24
Stability of collodial solutions; the influence of negative ions, the effect of dilution and ageing and the influence of capillary active non-electrolytes on the coagulation of copper ferrocyanide sol. K. C. Sen. J Phys Chem 29:517-39 My '25

COPPER founding
Casting blast furnace tuyeres. W: J. Reardon. diags Metal Ind 22:64 F '24
Cupola castings; making copper castings from cupola melted metal; abstracts. T. F. Jennings. Metal Ind 22:444-5 N '24; Foundry 52:927-8 D 1 '24; Brass W 21:57-8 F '25
Density indicates soundness. T. G. Bamford. Foundry 52:352-4 My 1 '24
See also Brass founding

COPPER industry and trade
Bogey of cheap South American copper. A. Notman. Eng & Min J 117:807-10 My 17 '24; Discussion. 118:620, 940-2 O 18, D 13 '24
Copper metal and shares. Moody's Inv Serv 16:382 O 16 '24
Copper mining in 1923. P. Yeatman. Eng & Min J 117:83 Ja 19 '24
Copper mining in 1924. P. Yeatman. Eng & Min J 119:82 Ja 17 '25
Copper outlook. Economist 99:223-4 Ag 9 '24
Copper stock investments. Moody's Inv Serv 17:157-60 My 7 '25
Cost of producing copper. A. Notman. Eng & Min J 120:171-4 Ag 1 '25; Discussion. W: S. Black. 120:341-2 Ag 29 '25
English view of the position and outlook for copper. Econ W n s 30:476-7 O 3 '25
Favorable factors in the copper situation. A. B. Parsons. Eng & Min J 120:277-8 Ag 15 '25
Inspiration-Ray merger seems to depend on agreement as to terms. A. B. Parsons. Eng & Min J 118:828 N 22 '24
Position of copper. Economist 98:463 Mr 1 '24
Progress of the brass and copper industry. W. A. Wood. Metal Ind 23:1-2 Ja '25
Refutes notion of copper famine. J. R. Finlay. Eng & Min J 120:591-2 O 10 '25
Selling blister and copper matte. Eng & Min J 120:380 S 5 '25
Trend of the copper industry. A. Notman. Annalist 26:149-50 Ag 7 '25
World outlook for copper bright. S. A. Lewisohn. Am Ind 26:18 Ag '25
See also Copper—Prices; *also* Chino copper company; Ohio copper company of Utah; Ray consolidated copper company

Advertising

Captain of industry on advertising; John D. Ryan's changed attitude toward the advertising of copper. Ptr Ink 131:57-8 Ap 9 '25

Statistics

Copper production of the world for the first nine months of 1924. Eng & Min J 118: 718 N 1 '24
Copper; record production and consumption in 1923. J. Clendenin. Eng & Min J 117:133 Ja 19 '24
Copper; record production and consumption in 1924. J. Clendenin. Eng & Min J 119:138-9 Ja 17 '25
Statistics of copper industry in 1923 and 1924. Min Cong J 11:413-14 Ag '25
World copper output. Brass W 21:34 Ja '25
World production of copper in the first seven months of 1925. Econ W n s 30:304 Ag 29 '25

Canada

Copper output doubled in Canada during 1923. Can Eng 47:362 S 23 '24

Great Britain

Copper position. Economist 100:1232-3 Je 20 '25

United States

Autumn industries. Moody's Inv Serv 17:280 Ag 20 '25
Balance sheets for mine and smelter production of domestic copper, lead, and zinc. C. E. Siebenthal. Econ Geol 20:83-96 Ja '25
Bonds of copper-mining companies. W. F. Boericke. Eng & Min J 118:91-3 Jl 19 '24
Brass, bronze and copper products, 1923. Metal Ind 22:491-2 D '24
Brief survey of the copper situation and a forecast of the future. E. L. Gruver. Annalist 23:21 Ja 7 '24
Company reports. Eng & Min J 116:920; 117: 550-1, 829-31, 869-70, 910-11; 118:839; 119: 708-10, 830-1 N 24 '23, Mr 29, My 17-31, N 22 '24, Ap 25, My 16 '25
Conservation of copper proposed. Manuf Rec 86:77-8 Jl 31 '24
Copper. Bradstreet's 52:397-8 Je 21 '24
Copper in 1922 (general report). H. A. C. Jenison. U S Geol S Min Res of U S 1922, pt 1: 257-304 '24
Copper in 1923 and 1924. Metal Ind 23:391 S '25

COPPER industry and trade—United States —*Continued*
Copper outlook. Moody's Inv Serv 17:86, 122 Mr 12, Ap 9 '25
Copper stocks. Moody's Inv Serv 17:323 O 1 '25
Copper's outlook brighter. G. F. Creveling. Annalist 23:319+ Mr 10 '24
Copper's place in the sun. Min Cong J 11: 526-7 N '25
Geological survey's statistics of copper production in the United States in 1924. Econ W n s 30:15-16 Jl 4 '25
Imports and exports of copper during 1922 and 1923. Eng & Min J 117:694 Ap 26 '24
Kennecott's buying of Utah Copper did not lessen competition. P. Wooton. Eng & Min J 119:779-80 My 9 '25
Large increase in the output of copper in 1923. Comm & Fin Chr 118:23 Ja 5 '24
1924 copper production. Min Cong J 11:63 F '25
Official statistics of the production and distribution of copper in the United States in 1923. Comm & Fin Chr 118:23 Ja 5 '24
Outlook for copper metal in 1925 promising. E. L. Gruver; C. Hayden. Annalist 25:32 Ja 5 '25
Outlook for the American copper industry in 1925. Econ W n s 29:153-4 Ja 31 '25
Preliminary official estimate of copper production in the United States in 1924. Econ W n s 29:88 Ja 17 '25; Comm & Fin Chr 120: 397-8 Ja 24 '25; Iron Age 115:125 Ja 8 '25
Record production and consumption of copper in 1924. Manuf Rec 88:101 Jl 2 '25
Return to normal of the copper industry. A. Notman. Eng & Min J 118:455-60 S 20 '24
Some reflections on the American copper industry and the proposed tariff. G. M. Colvocoresses. Eng & Min J 118:19-21 Jl 5 '24
Surplus copper stocks reduced. Bradstreet's 53:562 Ag 29 '25
Will a tariff on copper help or injure the United States? F. W. Paine. Eng & Min J 117:796-9 My 17 '24

See also Tariff—United States—Copper

COPPER iodide
Isotope effect in band spectra; the spectrum of copper iodide as excited by active nitrogen. R. S. Mulliken. il diags Phys R 26:1-32 Jl '25

COPPER malates
Metallic hydroxy-acid complexes; the constitution of cuprimalates and analogous compounds. I. W: Wark. Chem Soc J 125:2004-9 O '24

COPPER metallurgy
Anaconda's Walker mine and mill. G: J. Young. flow sheets il diags Eng & Min J 117:725-30 My 3 '24
Barium polysulphide in sulphidizing oxidized ores for flotation. E. S. Leaver and H. M. Lawrence. U S Bur Mines Rep of Invest 2698:1-4 Ag '25 (typew)
Britannia Beach copper district of British Columbia. R. Dunn. flow sheet il map Eng & Min J 117:640-4 Ap 19 '24
Bwana M'Kubwa—a potential copper producer. G: L. Walker. flowsheet il diags map plans Eng & Min J 119:837-42 My 23 '25
Chino enterprise. T. A. Rickard. il diag Eng & Min J 117:13-20 Ja 5 '24
La concentration du minerai de cuivre par flottage à la New Cornelia copper co., à Ajo (Arizona, E.-U). P. Boudreaux. il diags Génie Civil 86:153-8 F 14 '25
Concentrator snapshots. E: H. Robie. flow sheet il diag Eng & Min J 117:598-601 Ap 12 '24
Copper-ore leaching by salt water and sulphur dioxide. C. S. Vadner. Eng & Min J 117:1039-40 Je 28 '24
Copper smelting with calcium carbide. Chem Age (Lond) 11:sup35 N 1 '24
Corocoro's flow sheet. F. A. Sundt. Eng & Min J 117:527 Mr 29 '24
Differential flotation of copper and iron sulphides. H. E. Keyes. Eng & Min J 120:135-6 Jl 25 '25
El Paso smelter. G: J. Young. flow sheet il diag Eng & Min J 119:1041-7 Je 27 '25
Ferric sulphate leaching at Inspiration. G. D. Van Arsdale. Eng & Min J 120:689 O 31 '25
Floating and leaching copper-molybdenum ores. H. A. Doerner. flow sheet Eng & Min J 119:925-6 Je 6 '25
How crude methods produced copper when other mines shut down. R. Murray-Hughes. flow sheet il Eng & Min J 116:1017-22 D 15 '23
Improvements in copper ore concentration. Eng & Min J 117:793-4, 972 My 17, Je 14 '24
Later story of the New Cornelia enterprise. T. A. Rickard. Eng & Min J 119:285-9 F 14 '25
Leaching ore in place at Kimberly, Nevada. Eng & Min J 119:411 Mr 7 '25
Making copper 600 miles north of Vancouver. L. R. Clapp. il Eng & Min J 116:1067-75 D 22 '23
Metallurgy of copper. H. O. Hofman. 2d ed., rev. 419p McGraw-Hill '24
New Copper Queen concentrator. E. Wittenau. il diags plans Eng & Min J 117: 836-41 My 24 '24
New Cornelia concentrating mill at Ajo, Arizona. H. K. Burch. flow sheets il diags plans Eng & Min J 118:808-21 N 22 '24
New Magma Copper smelter. H. A. Ruth. flow sheet il diags plan Eng & Min J 118: 685-91 N 1 '24
Note sur le procédé dit du cuivre natif. Soulié-Cottineau. Soc Ing Civils Bul 76:1013-18 Jl '23
Ore concentration at the Old Dominion. G: J. Young. flow sheet il Eng & Min J 120: 534 O 3 '25
Oxidation of ferrous sulfate to ferric sulfate by means of air in copper metallurgy. J. H. Reedy and J. S. Machin. diag Ind & Eng Chem 15:1271-2 D '23
Picture-stories on the manufacture of brass pipe. il Dom Eng 112:24 Ag 29; 33 S 5; 23 S 12; 23 S 19; 20 S 26; 113:30 O 3; 23 O 10; 24 O 17; 33 O 24; 22 O 31 '25
Progress in leaching the Ohio copper mine. F. E. Wormser. il diags Eng & Min J 118: 124-7 Jl 26 '24
Purification of copper sulphate solutions. G: S. Tilley and O. C. Ralston. U S Bur Mines Tech Pa 359:1-45 '24
Recent developments in copper metallurgy. G: A. Guess. Can Chem & Met 9:119-20 My '25
Rejuvenation of Nevada Consolidated. A. B. Parsons. il Eng & Min J 120:724-31 N 7 '25
Rio Tinto's operations. A. L. Walker. il Eng & Min J 117:802-6 My 17 '24
Roasting ores in hydrogen. H. Conder. Eng & Min J 116:943 D 1 '23
Selective flotation at Nacozari. W: T. MacDonald. flow sheets il Eng & Min J 118:445-54 S 20 '24
Simplification in copper ore concentration. Eng & Min J 120:122 Jl 25 '25
Six-cent copper from Calumet & Hecla tailings. C. H. Benedict. flow sheet il diags map Eng & Min J 117:277-84 F 16 '24
Technical developments in copper smelting. E: H. Robie. il diags Eng & Min J 117: 845-9 My 24 '24
United Verde smelter. G. J. Young. il diags Eng & Min J 118:97-101 Jl 19 '24; Discussion. S. S. Sörensen. 118:262-3 Ag 16 '24
Washing residues from copper ore leaching. G. D. Van Arsdale. Eng & Min J 118:653-5 O 25 '24

Electrometallurgy
Electrodeposition of copper by the Union miniere du Haut Katanga. H. Y. Eagle. il diags Am Electrochem Soc Trans v 45 (preprint 21):289-97 Ap '24
Electrolytic copper. J: G. A. Rhodin. Engineer 138:560-1 N 14 '24
Electrolytic tank house, Chile exploration company, Chuquicamata, Chile. C. W. Eichrodt. flow sheets diag Am Electrochem Soc Trans v 45 (preprint 23):303-24 Ap '24

COPPER metallurgy—Electrometallurgy—*Cont.*
Mackay electrochemical process for copper ores. H: S. Mackay. flow sheet diag Eng & Min J 116:975-9 D 8 '23
New anode hanger for parting doré by the Moebius system. E. J. David. il Eng & Min J 120:368 S 5 '25
Smelter and refinery of the Nichols copper co. E: H. Robie. il Eng & Min J 119:290-5 F 14 '25
Tacoma copper smelter and refinery. G: J. Young. il plans Eng & Min J 119:557-62 Ap 4 '25

Patents

Why the Court of appeals upheld the Carson patents. Eng & Min J 119:383-4 F 28 '25

COPPER mines and mining
Fluctuations in the yield of copper ore. W: S. Black. Eng & Min J 120:658-61 O 24 '25
Picture-stories on the manufacture of brass pipe; mining copper. il Dom Eng 112:19 Jl 25; 21 Ag 1; 21 Ag 8; 22 Ag 15; 25 Ag 22 '25
Proposed ore-caving methods. J. E. Harding. diags Eng & Min J 119:812-13 My 16 '25
Standardization of methods of observing and recording geologic data in copper mines. L: E. Reber, jr. Min Cong J 10:349-50 Ag '24
Tailings disposal at Old Dominion mill. il Eng & Min J 120:535 O 3 '25
Transportation and handling of ore and waste in the Magma mine. F: W. Snow. diags plan Min Cong J 11:562-3+ N '25
Undercut-caving in copper mining. Eng & Min J 120:243 Ag 15 '25
See also Copper ores

Power

Generation and utilization of power in copper mining. H. H. Pratt. Min Cong J 11: 481-2 O '25

Standards

Copper industry and standardization. C: A. Mitke. il Min Cong J 11:154 Ap '25

Alaska

Geology of the Beatson copper mine, Alaska. A. M. Bateman. diag map plan Econ Geol 19:338-68 Je '24
Occurrence of copper on Prince William Sound, Alaska. F. H. Moffit. U S Geol S Bul 773—C:141-58 '25

Arizona

Arizona copper companies spend millions for construction. L: Ware. il Eng & Min J 117: 221-3 F 2 '24
Equipment and operation of Inspiration's porphyry shaft. G: H. Booth. il diags Eng & Min J 119:476-85 Mr 21 '25
Geology and operations of the Magma mine. W. C. Browning and F. W. Snow. il diags Eng & Min J 119:197-201 Ja 31 '25
Great mining adventure; story of the United Verde extension. T. A. Rickard. il Eng & Min J 117:959-63 Je 14 '24
History of the development of Arizona's great mines. C: F. Willis. il Min Cong J 11:514-22+ N '25
Later story of the New Cornelia enterprise. T. A. Rickard. Eng & Min J 119:285-9 F 14 '25
Mining methods at the United Verde. G: J. Young. il diags Eng & Min J 119:357-60, 397-401 F 28-Mr 7 '25

British Columbia

Britannia Beach copper district of British Columbia. R. Dunn. flow sheet il map Eng & Min J 117:640-4 Ap 19 '24
Making copper 600 miles north of Vancouver. L. R. Clapp. il Eng & Min J 116:1067-75 D 22 '23

California

Anaconda's Walker mine and mill. G: J. Young. flow sheets il diags Eng & Min J 117:725-30 My 3 '24
Engels copper costs were 10.99c. in September; will be lower, says Paxton. Eng & Min J 118:904 D 6 '24

Chile

Chile copper. Brass W 20:355 O '24
Modern and ancient engineering and metallurgy as observed during a trip around the world. A. L. Walker. Iron Age 113:1351 My 8 '24

Cuba

Copper prospects in Cuba. il Eng & Min J 118:979 D 20 '24

Idaho

Copper deposits near Salmon, Idaho. C. P. Ross. diags maps U S Geol S Bul 774:1-44, pl 1-5 '25
New copper district near Salmon, Idaho. C. P. Ross. il map Eng & Min J 118:205-8 Ag 9 '24

Kongo, Belgian

Copper production in Katanga. Comm M 5:13-15 Ja '24
Copper situation in the Belgian Congo and northern Rhodesia. A. B. Parsons. il map Eng & Min J 119:258-9 F 7 '25
Katanga and its mineral development. O. Letcher. il maps Eng & Min J 119:277-84 F 14 '25
Union minière du Haut-Katanga. Eng & Min J 118:199 Ag 2 '24

Mexico

Caridad mine, Sonora, Mexico. A. Wandke. Econ Geol 20:311-18 Je '25
Selective flotation a feature at the Magistral-Ameca plant. H. M. Payne. flow sheet il diags Eng & Min J 116:1105-8 D 29 '23

Nevada

Rejuvenation of Nevada Consolidated. A. B. Parsons. il Eng & Min J 120:724-31 N 7 '25

New Mexico

Chino enterprise. T. A. Rickard. il map Eng & Min J 116:753-8, 803-10, 981-5, 1113-21; 117:13-20 N 3-10, D 8, 29 '23-Ja 5 '24
Chino in 1851. D. E. Woodbridge. Eng & Min J 116:1080-1 D 22 '23

Peru

Cerro de Pasco increases copper output to 6,500,000 lb. monthly. A. B. Parsons. il map Eng & Min J 119:979-81 Je 13 '25

Rhodesia

Bwana M'Kubwa—a potential copper producer. G: L. Walker. flowsheet il diags map plans Eng & Min J 119:837-42 My 23 '25
Copper situation in the Belgian Congo and northern Rhodesia. A. B. Parsons. il map Eng & Min J 119:258-9 F 7 '25
How crude methods produced copper when other mines shut down. R. Murray-Hughes. flow sheet il Eng & Min J 116:1017-22 D 15 '23

Spain

Rio Tinto's operations. A. L. Walker. Il Eng & Min J 117:802-6 My 17 '24

Tanganyika

Copper from Tanganyika. T. A. Rickard. Eng & Min J 116:857 N 17 '23
Union Minière plans to increase current monthly copper output of 12,500,000 lb. A. B. Parsons. il Eng & Min J 116:1044-6 D 15 '23

Transylvania

Copper ores and diabases of Transylvania. S. Szentpétery. Econ Geol 19:392-7 Je '24

Utah

Breaking ore at Utah Copper. G: J. Young. il diags Eng & Min J 118:645-9 O 25 '24

COPPER nitrate
Preparation and stability of cuprous nitrate and other cuprous salts in presence of nitriles. H. H. Morgan. Chem Soc J 123: 2901-7 N '23

COPPER numbers
Determination of copper numbers of cellulose materials. C. J. Staud and H. Le B. Gray. bibliog Ind & Eng Chem 17:741-4 Jl '25
Modified method for the determination of the copper number (oxycellulose) of bleached pulps. P. D. Bray and Pao Chen Liu. diags Paper Tr J 80:49-53 My 28 '25

COPPER ores
Capping as a guide to copper deposits. G. J: Mitchell. il Eng & Min J 116:891-3 N 24 '23
Caridad mine, Sonora, Mexico. A. Wandke. Econ Geol 20:311-18 Je '25
Chino enterprise; geology of Santa Rita. T. A. Rickard. map Eng & Min J 116:981-5 D 8 '23
Churn drill prospecting of porphyry copper deposits and how it checks with actual mining. Eng & Min J 119:855 My 23 '25
Commercial practice in sampling and assaying copper. A. M Smoot. Eng & Min J 120: 605-11 O 17 '25
Copper deposits near Salmon, Idaho. C. P. Ross. diags maps U S Geol S Bul 774:1-44, pl 1-5 '25
Copper deposits of arctic Canada. G: M. Douglas. il map Eng & Min J 118:85-9 Jl 19 '24
Copper in Africa looms large. Brass W 21: 250 Jl '25
Flame test for copper an aid in the study of croppings. C: H: White. Eng & Min J 117: 568-9 Ap 5 '24
Fluctuations in the yield of copper ore. W: S. Black. Eng & Min J 120:658-61 O 24 '25
Information obtainable from churn-drill sampling. J. E. Harding. Eng & Min J 117:523-7 Mr 29 '24
Native copper deposits of the south Atlantic states compared with those of Michigan. T: L. Watson. map Econ Geol 18:732-50; Bibliography. 751-2 D '23
New copper district near Salmon, Idaho. C. P. Ross. il map Eng & Min J 118:205-8 Ag 9 '24
Occurrence of copper on Prince William Sound. F. H. Moffit. U S Geol S Bul 773: 141-58 '25
Primary chalcocite at Cananea, Mexico. G. J: Mitchell. il Eng & Min J 117:880-2 My 31 '24
Primary relationships and unusual chalcopyrite in copper deposits at Parry Sound, Ontario. G. M. Schwartz. il Econ Geol 19: 209-13 Mr '24
Prospecting for disseminated copper by a study of leached croppings. C: H: White. diags Eng & Min J 117:483-8 Mr 22 '24
Recent progress with leached ore capping. H. W. Morse and A. Locke. Econ Geol 19:249-56; Discussion. 256-8 Ap '24
Superficial copper deposits; how they are formed and what they teach. W. H. Weed. Eng & Min J 119:605 Ap 11 '25
See also Chalcopyrite

COPPER oxides
Action of nitrogen peroxide on cuprous oxide. J. R. Partington. Chem Soc J 125:663-5 Mr '24
Light sensitivity of cuprous oxide and of selenium. V. P. Barton. diags Phys R 23: 337-44 Mr '24
Photo-chemical properties of cuprous oxide. A. Garrison. J Phys Chem 28:279-84 Mr '24
See also Cuprite

COPPER pipes. See Water pipes, Copper

COPPER plating
Copper plating builds up bearings. F. C. Lynch. Elec Ry J 66:369-70 S 5 '25
Electrodeposition of copper-nickel alloys. H. D. Hineland and W. B. Cooley. Am Electrochem Soc Trans v 48 (preprint 16):155-60 S '25
Prevention of case-hardening by copper plating. J. C. McCullough and O. M. Reiff. il Ind & Eng Chem 16:611-13 Je '24
Renovating interior trimmings of passenger cars. il Ry Mech Eng 99:100-3 F '25
Test for acid copper solution. W. R. King. Metal Ind 22:361 S '24

COPPER potassium sulfate
Equilibrium in the systems cupric sulphate —potassium sulphate—water and cupric sulphate—ammonium sulphate—water at 25°, 51°, and 61°. R. M. Caven and T: C. Mitchell. Chem Soc J 125:1428-31 Jl '24

COPPER range company
Facts for the stockholder. Eng & Min J 119: 230 Ja 31 '25

COPPER roofing. See Roofing, Copper

COPPER smelting. See Copper metallurgy

COPPER sulfate
Algae control in Texas. W. S. Mahlie. Am Water Works Assn J 10:998-1010 N '23; Same abr. Eng & Contr (W W) 60:1235-8 D 12 '23
Applying copper sulphate to reservoirs; abstracts. W. Rushton and P. A. Audin. Pub Works 56:55 F '25; Eng & Contr (W W) 63:125-6 Ja 14 '25
Copper in distribution system following watershed treatment. F. E. Hale and H: F. Muer. Eng & Contr (W W) 64:66-8 Jl 8 '25
Copper sulphate being used around ground plates. E. R. Stauffacher. il diags Elec W 85:514 Mr 7 '25
Copper sulphate sown on ice of Cheyenne water-works reservoirs. P. R. Revis. Eng N 94:660-1 Ap 16 '25
Copper sulphate treatment for algae troubles. Am Water Works Assn J 11:258-65 Ja '24; Excerpt (J. M. Diven). Eng & Contr (W W) 61:380 F 13 '24
Copper sulphate treatment of Cape Pond, the source of water supply for Rockport, Mass. E. S. Chase. il N E Water Works Assn J 38:48-60 Mr '24; Same cond. Eng & Contr (W W) 61:577-83 Mr 12 '24; Discussion. N E Water Works Assn J 38:60-2 Mr '24
Imported copper sulphate sold at low prices, 1924. Chem & Met Eng 32:139 Ja 19 '25
Purification of copper sulphate solutions. G: S. Tilley and O. C. Ralston. U S Bur Mines Tech Pa 359:1-45 '24

COPPER sulfide
See also Chalcocite

COPPER wire. See Wire, Copper

COPPERSMITHING
Copper flashings. 66p Copper and brass research assn., 25 Bway., New York '24

COPPERWORK, Architectural
Copper covered ferry bridge. il Sheet Metal Worker 16:541+ Ag 28 '25
Copper covering makes terra cotta cornice safe. il diag Sheet Metal Worker 15:819+ N 21 '24
Copper used for smoke stacks. il Sheet Metal Worker 15:966 Ja 2 '25
Covering dome with sheet copper. W: Neubecker. diags Sheet Metal Worker 16:614-15+, 648-9 S 25-O 9 '25
Covering tower roofs with sheet copper. W: Neubecker. diags Sheet Metal Worker 14: 855-6 D 7 '23
Five tons of copper for exhaust ducts. il Sheet Metal Worker 15:563-4 Ag 15 '24
Metal cornice for $2,000,000 apartment. il diag Sheet Metal Worker 16:551 Ag 28 '25
Old church copper-jackets its cornice. il Sheet Metal Worker 16:589 S 11 '25
Ornamental copper beautifies Brooklyn's newest store building. il Sheet Metal Worker 16:75-6+ Mr 13 '25
Six tons of copper on church buildings. il Sheet Metal Worker 14:985-6 Ja 18 '24
Terra cotta cornice loose and dangerous replaced with copper. il diag Sheet Metal Worker 14:930-2 Ja 4 '24
Things to know in working copper. J: F. Gowen. Sheet Metal Worker 16:49-50, 115-16+ F 27, Mr 27 '25

COPRA
Trade in Philippine copra and coconut oil. E. D. Gothwaite. il maps U S Bur For & Dom Com Trade Promotion Ser 11:1-120 '25

COPYING processes
Duplicateurs rotatifs modernes. L: Liévens. diags Soc Ing Civils Bul 78:58-72, pl 87 Ja '25; Abstract. Génie Civil 86:244 Mr 7 '25

COPYING processes—*Continued*
Method to copy drawings and photographs. K. Tojo. diag Elec W 85:1083 My 23 '25
Three kinds of duplication. E. Boykin. il Credit M 27:12-13+ Ag '25
Using duplicating devices to increase sales. H. Wilson. il Am Exporter 94:23-4+ F '24

COPYING ribbons. See Ribbons, Copying

COPYRIGHT
Avoid complications when buying copyrighted material. Ptr Ink 130:66+ Mr 12 '25
Copyright revision will aid graphic arts. W. Fawcett. Inland Ptr 76:59-60 O '25
Copyrights, trademarks, prints and labels, and unfair competition in trade. W. G. Carr. Elec J 21:529-31 N '24
Court decision extends coypright protection. Ptr Ink 129:172+ D 11 '24
Only the copyright notice protects. Ptr Ink M 9:126 Jl '24
Things you can and cannot copyright. J. True. Ptr Ink 125:93-4+ N 15 '23
Why some labels are refused copyright protection. Ptr Ink 126:142+ Mr 27 '24

Advertisements
How copyrighted dealer helps can be protected. Ptr Ink 128:128+ Ag 28 '24
More about copyrighting advertising material. Ptr Ink 131:123-4 Je 18 '25
What Canada's new copyright law means to advertisers. Ptr Ink 128:97-8 Jl 24 '24

Architectural plans
Protection of architectural idea by copyright. L. V. Solon. Arch Rec 58:187-8 Ag '25

COPYRINE
Harmine and harmaline; a synthesis of *apo*-harmine and of certain carboline and copyrine derivatives. W. Lawson, W: H: Perkin, jr. and R. Robinson. Chem Soc J 125:626-57 Mr '24

CORAL GABLES, Florida
Coral Gables, Florida, a new community, is all masonry and about 85 percent concrete. il Concrete 24:44-7 F '24
Coral Gables, Florida, as an illustration of state wide developments. E. T. Purcell. il Manuf Rec 85:109-12 My 1 '24
Real estate developments involve much construction work. Eng & Contr (G C) 64:881-2 O 21 '25

CORAL pavements. See Pavements, Coral

CORALS
Food of corals. Sci Am 130:239 Ap '24

CORBETT, Harvey Wiley
Master of architecture; degree from Liverpool university. por Am Arch 128:134 Ag 12 '25

CORDEAU-BICKFORD
Effect of the temperatures of liquid oxygen explosives on Cordeau-Bickford. D. B. Gawthrop. U S Bur Mines Rep of Invest 2619:1-5 Je '24 (typew)

CORE baking
Baking of cores. C. C. Hermann. plan Gas Age 53:706+ My 17 '24; Same. Brass W 21: 87-8 Mr '25
Electric core baking. il Blast F & Steel Pl 11: 607-9 N '23

CORE boxes
Corebox must conform to practice. diags Foundry 52:812 O 15 '24
Makes core with temporary corebox. L. V. Johnston. diag Foundry 52:984 D 15 '24
Making a long slender core without using a full core-box. M. E. Duggan. diags Mach 30:466 F '24
Making globe valve corebox. W. C. Ewalt. il diags Foundry 52:483-5 Je 15 '24
Study of foundry practice essential in making coreboxes. diag Foundry 52:486 Je 15 '24

CORE making machines. See Foundry machinery

CORE oils
Core oil complex compound. W. G. Smith. Foundry 51:911-13 N 15 '23
Miscellaneous oils; core oils; data sheets. J. B. Rathbun. Pet Age 13:79+ Mr 15; 95 Ap 1 '24
Qualities of commercial core oils; abstract. H. L. Campbell. Iron Age 116:1039-40 O 15 '25

Advertising
Does a limited industrial market preclude advertising? R. Rockafellow. Ptr Ink 128:108+ Jl 10 '24

CORE ovens
Core oven uses forced draft. il diag Foundry 53:242-3 Mr 15 '25
Electric core baking. il Blast F & Steel Pl 11: 607-9 N '23
Gas for use in foundry ovens. Foundry 52: 116 F 1 '24

CORES
Cadillac runs tidy coreroom. il Foundry 53: 721-4+ S 15 '25

CORK
Absorbo cork foundation pads. il Am Mach 63: 332 Ag 20 '25
Conveying bales of cork during boiling process. diag Cassier's Ind Management 12:414 Ag '25
Cork lined monolithic concrete houses. H. Whipple. il diags plan Concrete 27:15-20 N '25

CORK tiling
600 per cent increase in production of cork floor tiling after fuel change. il Gas Age 52:771-2 D 22 '23

CORLISS, George H.
Reminiscences of a veteran mechanical engineer. Power 58:50-2 Jl 10 '23; Discussion. 58:266-7, 306-7, 340-1, 467-8, 545; 59:64 Ag 14-28, S 18, O 2 '23, Ja 8 '24

CORN
Phytosterols of the endosperm of corn. R. J. Anderson. Am Chem Soc J 46:1450-60 Je '24

Bibliography
Bibliography of researches bearing on the composition and nutritive value of corn and corn products. M. H. Keith. Ill U Agric Exp Sta Bul 257:1-151 '25

CORN oil
Investigation of discoloration in corn oil soap and of the possibility of preventing its development. E. G. R. Ardagh and others. bibliog diags Can Chem & Met 7:302-7; 8:7-11 D '23-Ja '24

CORN sugar. See Dextrose

CORNCOBS
Commercial utilization of corncobs. O. R. Sweeney. Iowa State College of Agric and Mechanic Arts Eng Exp Sta Bul 73:1-111 [bibliog. p. 91-111] '24
Furfural from corncobs. F: B. LaForge and G. H. Mains. il diags Ind & Eng Chem 15: 499-502, 823-9, 1057-60; 16:356-9 My, Ag, O '23, Ap '24
Paper pulp from corncobs. Chem & Met Eng 32:620 Jl '25
Simultaneous production of pentosan adhesives and furfural from corncobs and oat hulls. F: B. LaForge. Ind & Eng Chem 16: 130-1 F '24

CORNELL university
Cornell Crescent. G. Hadden. diags Sibley J 39:310-13+ Ap '25
Cornell Crescent. G. Hadden. il (front) diag plan Arch Rec 57:193-203 Mr '25

CORNICES
Architectural monograph devoted to a comparative study of a group of early American ornamental cornices. A. Embury. 2v White pine bur., St. Paul '24
Construction details for zinc cornices. diags Eng & Contr (Bldgs) 63:431-4 F 25 '25
Copper covering makes terra cotta cornice safe. il diag Sheet Metal Worker 15:819+ N 21 '24
Cornice study. D. L. Stoddard. diags Bldg Age 46:93 My '24
Early American cornices of Philadelphia. C. A. Ziegler. il diag Am Arch 126:1-10 Jl 2 '24

CORNICES—*Continued*
How to bring back cornice work. G: Harms. diags Sheet Metal Worker 15:155-6 Mr 28 '24
Metal cornice for $2,000,000 apartment. il diag Sheet Metal Worker 16:551 Ag 28 '25
Old church copper-jackets its cornice. il Sheet Metal Worker 16:589 S 11 '25
Patterns for raking cornice work. W: Neubecker. diag Sheet Metal Worker 14:954+; 15:76, 157+, 280+, 418+, 501, 716-17, 828-9, 946-7, 1032-3 Ja 4, F 29, Mr 28, My 9, Je 20, Jl 18, O 10, N 21 '24, Ja 2, 30 '25
Terra cotta cornice loose and dangerous replaced with copper. il diag Sheet Metal Worker 14:930-2 Ja 4 '24

CORNING, Christopher Robert, 1859-1924
Sketch. T. A. Rickard. por Eng & Min J 118: 512-13 S 27 '24

CORNSTALK sirup
Cornstalk sirup investigations. J. J. Willaman, G. O. Burr and F. R. Davison. Ind & Eng Chem 16:734-9 Jl '24

CORONA (electricity)
Corona as lightning arrester. J. B. Whitehead. bibliog il diags Am Inst E E J 43:914-22 O '24; Discussion. 44:393-4 Ap '25
Corona cable-tests inconsistent. Soc Auto Eng J 17:150-1 Ag '25
Corona in oil. A. C. Crago and J. K. Hodnette. diags Am Inst E E J 44:219-22 Mr '25; Discussion. 44:638-40 Je '25
Corona investigation on an artificial line. M. F. Gardner. il Am Inst E E J 44:813-20 Ag '25
Corona loss tests on the 202-mile 60-cycle 220-kv. Pit-Vaca transmission line of the Pacific gas and electric company. R. Wilkins. diags Am Inst E E J 43:1109-16 D '24; Discussion. 44:513-22 My '25
Corona losses between wires at extra high voltages. C. F. Harding. il diag Am Inst E E J 43:932-40 O '24; Discussion. 44:394-7 Ap '25
Corona papers at A.I.E.E. convention; abstracts. diags map Elec W 84:933-6 N 1 '24
Current-voltage relation in the corona. C. S. Fazel and S. R. Parsons. Phys R 23:598-607 My '24
Decomposition of carbon monoxide in the corona due to alternating electric fields. M. Crespi and R. W. Lunt. Chem Soc J 127: 2052-7 S '25
Equilibrium of carbon dioxide with carbon monoxide and oxygen in the corona discharge. G. L. Wendt and M. Farnsworth. diag Am Chem Soc J 47:2494-2500 O '25
Formation of active hydrogen in the creepage corona discharge. F. O. Anderegg and W. N. Herr. Am Chem Soc J 47:2429-31 O '25
Hydrogen as a cooling medium for electrical machinery. E. Knowlton, C. W. Rice and E. H. Freiburghouse. il diags Am Inst E E J 44:724-34 Jl '25
Hysteresis character of corona formation. H. J. Ryan and H: H. Henline. il diags Am Inst E E J 43:825-30 S '24; Discussion. 44: 513-22 My '25
Korona als überspannungsschutz; abstract. il Elektrotech Zeit 46:896-7 Je 11 '25
Measuring effects of corona on rubber. F. L. Haushalter. il diags Elec W 86:267-9 Ag 8 '25
On the nature of corona loss. C. T. Hesselmeyer and J. K. Kostko. diags Am Inst E E J 44:1068-75 O '25
Recent work on the corona. J. B. Whitehead. Elec W 84:1257-9 D 13 '24
Study of direct-current corona in various gases. F. W. Lee and B. Kurrelmeyer. bibliog diags Am Inst E E J 44:16-23 Ja '25; Discussion. 44:628 Je '25
Surface complications in the corona discharge. F. O. Anderegg. il diag Am Electrochem Soc Trans v 44 (preprint 28):349-60 S '23

CORONA typewriter company
What maintenance includes and how it is handled in the Groton and Cortland (N.Y.) plants of the Corona typewriter company. C. D. Corwin. il Ind Eng 83:50-1+ F '25

CORONADO coal company case
Interfering with interstate commerce by preventing the mining of coal. Monthly Labor R 21:418-20 Ag '25

CORPORATE names
Endeavor made to prevent misleading use of the word "federal." Ptr Ink 125:10+ D 6 '23
Importance of choosing the right name for your business. P. K. M. Thomas. Ptr Ink 126:113-14+ F 21 '24
New names for old. Ptr Ink 128:52 Ag 7 '24
Picking a name for the business baby. M. K. Powers. Nation's Business 13:68-9+ O '25
Step-by-step outline of the way a name was changed. H. Blauvelt. Ptr Ink 132:105-8+ S 3 '25
Unlawful for a jobber or retailer to pose as a manufacturer. Ptr Ink 129:114+ D 25 '24

CORPORATION law
Advantages and disadvantages of incorporating a business where owner wishes to leave it to sons. Dom Eng 108:43-4 S 6 '24
Cases on private corporations, selected from decisions of English and American courts. H. S. Richards. 2d ed. 1025p West pub. co., St Paul '24
Cases on the law of public service. C: K. Burdick. 2d ed., rev. & enl. 738p Little, Brown & co., Boston '24
La création des sociétés à responsabilité limitée; loi du 7 mars 1925. A. Lainé. Génie Civil 86:289-90 Mr 21 '25
Historical foundations of modern company law. R. R. Formoy. 151p Carswell co., Toronto '23
New York laws affecting business corporations. J. B. R. Smith, ed. 6th ed., rev. 303p United States corporation co., New York, Albany '25
1924 supplement to Rosbrook on New York corporations. A. I. Rosbrook. 2d ed. 114 numb l M. Bender & co., Albany, N.Y. '24
Plague of state taxes. G: W. Gerstenberg. Sales Management 9:17-18 Jl 11 '25
Les sociétés anonymes. J. Ract. 2d ed. 787p Rousseau & cie, Paris '24
Les sociétés civiles d'obligataires. A. Lainé. Génie Civil 84:430-2 My 3 '24
Treatise on the law of corporations having a capital stock. W: W. Cook. 8th ed. Baker, Voorhis & co., New York '23
Treatise on the law of corporations in New York. A. I. Rosbrook. 2d ed. 1707p M. Bender & co., Albany '23
What constitutes doing business by a corporation in states foreign to the state of its creation. 128p Corporation trust co., 37 Wall st., New York '24
Where and how; a corporation hand book containing the laws of Delaware, New Jersey, New York and Pennsylvania. J: S. Parker. 7th ed., rev. 350p Broun-Green co., New York '23

See also Banking law; Commercial law; Corporations—Taxation; Income tax; Insurance law; Public utilities—Law; Railroad law; Trusts, Industrial

CORPORATION of foreign bondholders
Protecting our foreign bondholders. G. Jones. Am Bankers Assn J 17:298+ N '24

CORPORATION schools
Giving the house a personality. W. H. Lough. Ind Management 67:16-18 Ja '24
Helping the worker by education; evening school at the Pittsfield works of the General electric co. S. W. Ashe. Mach 30:524-5 Mr '24
Organization and administration of part-time schools in manufacturing or mercantile establishments and in factories. Univ of the State of New York Bul 790:1-20 '23
Selling illumination by education. R. A. Palmer. il Ptr Ink M 8:100+ My '24

CORPORATIONS

See also Banks and banking; Building and loan associations; Combinations, Industrial; Corporate names; Corporation law; Electric utilities; Gas companies; Government ownership; Municipal ownership; Oil companies; Promoters; Public utilities; Railroads; Stocks; Street railroads; Trust companies; Trusts, Industrial

Accounting

Determination of net earnings available for bond issues. P. W. Brown. Paper Tr J 78: 53-5 Ja 24 '24; Same. Harvard Business R 2: 219-23 Ja '24

No par value stock. F. H. Hurdman. J Account 37:91-100 F '24

Price, profit and return on invested capital. H. D. Force. J Account 39:27-33 Ja '25; Same. Paper Tr J 80:57-9 F 19 '25

Principles which should govern the determination of capital and the amounts available for distribution of dividends in the case of corporations, with special reference to the system of capital stocks without a par value. S. Gundelfinger. J Account 37:321-48, 420-31; 38:31-41 My-Jl '24

Some questions on no-par-value stock. F: H. Hurdman. J Account 39:9-18 Ja '25

See also Dividends; Holding companies—Accounting

Directors

Duties of directors. Economist 101:448-9 S 19 '25

Finance

America becoming a land of billion-dollar corporations. Forbes 15:276 D 1 '24

Case of emergency financing in a period of liquidation. S. P. Meech. Univ J of Business 2:368-73 Je '24

Corporation finance. E: S. Mead. 5th ed., rev. & enl. 480p Appleton '23

Elements of a financial investigation. R. G. Davis. Management & Adm 8:277-8 S '24; Same. Paper Tr J 79:53-4 S 11 '24

Expansion of fixed capital by selling receivables. S. P. Meech. Univ J of Business 3:98-102 D '24

Financial and business statements. L. Greendlinger. 349p Alexander Hamilton inst. New York '23

Financial organization and management. C: W. Gerstenberg. 723p Prentice-Hall '24

Financial standards. S. P. Meech. Univ J of Business 3:171-87 Mr '25

Financing a promotion by selling receivables. L. W. Mints. Univ J of Business 3:198-202 Mr '25

Financing a young concern by selling receivables. S. P. Meech. Univ J of Business 2: 491-4 S '24

Financing the young manufacturing business. E. M. Sims. Factory 34:584-5+ Ap '25

Industrial financing. E. J. Bermingham. I B A of A 12:228-30 Mr 31 '24

Investigations preliminary to refinancing. W. P. Lukens. Management & Adm 8:271-5 S '24

Mechanics of profit-making. P. Mathewson. Management & Adm 7:659-61 Je '24

Monthly report of industrials. Published in monthly supplement to Moody's rating books of Moody's investors service

Principles of corporation finance. H. L. Reed. 412p Houghton '25

Securing additional capital; discussion. Management & Adm 7:222-4 F '24

Securing funds for business expansion. A. M. Leinbach. Management & Adm 8:33-8 Jl '24; Same. Paper Tr J 79:53-6+ Ag 21 '24

Technique des études financières. J. Jeannin. 262p Delagrave, Paris '24

We needed $150,000 more capital, but—. A. E. Simmons. il System 45:163-6+ F '24

See also Debentures; Dividends; Public utilities—Finance; Railroads—Finance; Securities; Steel industry and trade—Finance

Reports and yearbooks

Making stockholders friends of a corporation. R. Bartholomew. il diag map Ptg Art 44: 461-9 Ja '25

Need of reform; printing corporation reports. J. L. Frazier. Inland Ptr 74:721-2 F '25

Taxation

Amortization. B. L. Wheeler. Ind Management 67:163-6 Mr '24

Basis for property acquired for stock. J: W. Roberts. J Account 40:100-7 Ag '25

Consolidated tax returns. R. H. Allen. Management & Adm 9:121-4 F '25

Corporate finance perverted by the income tax. G: B. Robinson. Annalist 23:553+ My 12 '24

Distributed and undistributed earnings of corporations. 132p U.S. Treas. dept., Washington '24

Flaw in the Mellon tax bill; unjust retroactive burdens imposed on certain corporate reorganizations. I. Sack. Annalist 23:238+ F 18 '24

Industry is stung by tax lash. J: W. Hill. chart Iron Tr R 77:181-4 Jl 23 '25

Is depreciation the bugaboo of your income tax? H. A. Harris. System 45:331-3+ Mr '24

Mining companies and the capital-stock tax. Eng & Min J 120:529-33 O 3 '25

New York state franchise tax on business corporations. 32p Equitable trust co. of New York, New York '23

New York state franchise tax on business corporations, chapter 726, laws of New York, 1917, as amended in 1925. 52p Guaranty trust co. of New York, New York '25

State franchise tax on foreign corporations valid. Bradstreet's 52:749 N 22 '24

Supreme court kills Massachusetts excise tax law. Sales Management 9:105-6 Jl 25 '25

Taxation by a state of a foreign corporation's right to do business unconstitutional—Georgia Supreme court so decides. Comm & Fin Chr 117:2398-9 D 1 '23

Taxation of no-par stock. H. T. Warshow. J Account 39:19-23 Ja '25

See also Excess profits tax; Gas companies—Taxation; Income tax; Insurance companies—Taxation; Mine taxation; Public utilities—Taxation; Railroads—Taxation; Street railroads—Taxation

CORPORATIONS, Public service. See Public utilities

CORRELATION (statistics)

Determination of the best linear relationship connecting any number of variables. H. Glauert. Philos Mag 6th ser 50:205-7 Jl '25

Measurement of correlation and the problem of estimation. F: C. Mills. Am Statis Assn J 19:273-300 S '24; Discussion. S. Kuznets. 20:253-5 Je '25

Method of handling curvilinear correlation for any number of variables. M. Ezekiel. charts Am Statis Assn J 19:431-53 D '24

Personal data and vocational fitness. D. A. Laird. Ind Management 69:163-72 Mr '25

CORRESPONDENCE courses

See Benjamin Franklin institute

CORRESPONDENCE principle

Absorption of radiation by multiple periodic orbits, and its relation to the correspondence principle and the Rayleigh-Jeans law. J. H. Van Vleck. Phys R 24:330-65 O '24

Application of the correspondence principle to degenerate systems and the relative intensities of band lines. E. C. Kemble. Phys R 25:1-22 Ja '25

Applications of the correspondence principle to the theory of line-intensities in band-spectra. R. H. Fowler. Philos Mag 6th ser 49:1272-88 Je '25

Estimation of maximum coefficients of absorption. R: C. Tolman. Phys R 26:431-2 O '25

Extension of Bohr's correspondence principle to apply to small quantum numbers. P. W. Ketchum. Phys R 24:463-5 N '24

CORRESPONDENCE principle—*Continued*
Problem of the quantitative formulation of Bohr's correspondence principle. R: C. Tolman. Philos Mag 6th ser 49:130-6 Ja '25

CORRESPONDENT banks. See Banks and banking—Correspondent banks

CORROSION, Electrolytic. See Electrolytic corrosion

CORROSION and anti-corrosives
Acid corrosion of metals; effect of oxygen and velocity. W. G. Whitman and R. P. Russell. Ind & Eng Chem 17:348-54 Ap '25
Acid decomposes cast iron. il Foundry 52:231-2 Mr 15 '24
Acid in soils responsible for pipe protection. P. Wagner. il Nat Pet N 17:76 Je 24 '25
Action of calcium chloride brines on galvanized coatings. A. C. White. il Ind & Eng Chem 17:503-5 My '25
Action of salt solutions on iron and steel in the presence of oxygen. U. R. Evans. diags Soc Chem Ind J 43:315-22 O 31 '24
American electrochemical society symposium on corrosion. Iron Age 114:959-62 O 9 '24
Analyzing a case of pitting. F. F. Vater. Power Pl Eng 28:1137-8 N 15 '24
Application of oil to preserve track; use of the Neafie sprayer to prevent corrosion. Eng & Contr (Ry) 63:170-1 Ja 21 '25
Atmospheric corrosion; the behaviour of typical non-ferrous metals investigated. W. H. J. Vernon. Electrician 92:352-3 Mr 21 '24; Abstract. Engineering 116:778 D 21 '23; Discussion. Engineer 137:45-6 Ja 11 '24; Engineering 116:778 D 21 '23
Avoiding the effects of corrosion on buildings and apparatus. W. S. Calcott. Chem & Met Eng 32:685-7 Ag '25
Bethlehem-Weir corrosion detector. diags Power 60:512 S 23 '24
Cause and control of corrosion in boiler plants and heating systems. Power 60:71 Jl 8 '24
Causes and effects of corrosion. R. J. McKay. Chem & Met Eng 32:432-4 Ap '25
Causes and prevention of corrosion. A. A. Pollitt. 230p Van Nostrand '23
Causes and prevention of pitting in locomotive boilers. C. H. Koyl. Ry Mech Eng 99:517-18 Ag '25
Causes of rapid corrosion of condenser tubes. G. D. Bengough, R. May and R. Pirret. il diags Engineering 116:572-6 N 2 '23; Discussion. 116:632, 649 N 16-23 '23
Chemical treatment of refrigeration brines to prevent corrosion. E. P. Poste. Ind & Eng Chem 17:131-3 F '25; Same. Refrig Eng 11:355-7 Ap '25
Combating corrosion in gas manufacture. flow sheets Chem & Met Eng 31:47-50 Jl 14 '24
Combination patent should be definite; patent on rust remover. W. Gustin. Chem & Met Eng 30:555 Ap 7 '24
Committee A-5 on corrosion of iron and steel. Metal Ind 23:142 Ap '25
La composition chimique de la rouille. R. Stumper. il Chimie & Ind 13:906-10 Je '25
Corrosion and decay of metals and alloys. E. G. Jarvis. Brass W 20:339-41 O '24
Corrosion and erosion of steam turbine blading; abstracts. E. Honegger. diags Engineer 138:sup28-9 F 27 '25; Power 61:511 Mr 31 '25; Discussion. E. I. Baker. 61:800 My 19 '25
Corrosion and its relation to safety in chemical plants. J. H. Shapleigh. Chem Age 32: 401-4 O '24; Excerpts. Chem & Met Eng 31:768-9 N 17 '24
Corrosion and protection of condenser tubes. G. D. Bengough and R. May. Power 62:584-5 O 13 '25
Corrosion and rusting of wrought iron and steel gas barrel. il Gas J (Lond) 171:sup3-13; Discussion. 13 Jl 22 '25
Corrosion by acid water. D. H. Jackson. Power 58:217 Ag 7 '23; Same. Locomotive 35:8-11 Ja '24
Corrosion caused by products of combustion of coal gas. U. R. Evans. Soc Chem Ind J (Chem & Ind) 43:506-7 My 16 '24
Corrosion cracking of steel under the influence of internal stresses. A. M. Portevin. diags Iron & Steel Inst J 108:71-89, pl 3; Discussion. 90-2 no 2 '23
Corrosion discussed at the American society for testing materials 28th annual meeting. Iron Age 116:27-8 Jl 2 '25; Iron Tr R 77: 42-3 Jl 2 '25
Corrosion dragon in the sugar industry. flow sheet il Chem & Met Eng 31:58-60 Jl 14 '24
Corrosion effect of naphtha solutions of sulfur and sulfur compounds. A. E. Wood, C. Sheely and A. W. Trusty. Ind & Eng Chem 17:798-802 Ag '25
Corrosion in aqueous solutions. W. D. Bancroft. Ind & Eng Chem 17:336-8 Ap '25
Corrosion in steel stacks. C. C. Hermann. Power Pl Eng 29:161 Ja 15 '25
Corrosion, inc.—a billion dollar concern. R. B. Williams. Gas Age 55:409-10 Mr 21 '25
Corrosion of aluminum. C: S. Williams. Textile Col 46:701-2 N '24
Corrosion of boiler and condenser tubes and action of the hot wall; abstract. C. Benedicks. Mech Eng 47:351 My '25
Corrosion of certain metals by carbon tetrachloride. F. H. Rhodes and J. T. Carty. il diag Ind & Eng Chem 17:909-11 S '25
Corrosion of condenser tubes. F. Johnstone-Taylor. Marine Eng 29:108-9 F '24
Corrosion of copper alloys in sea water. W. H. Bassett and C. H. Davis. Metal Ind 23:96-7 Mr '25; Abstract. Power 61:567 Ap 14 '25
Corrosion of copper and copper alloys. U. R. Evans. diags Soc Chem Ind J 43:127-31 My 2 '24
Corrosion of engineering materials. Chem Age (Lond) 12:sup10-11 F 7 '25
Corrosion of glass surfaces. G: W. Morey. Ind & Eng Chem 17:389-92 Ap '25
Corrosion of iron. W. R. Whitney. il Ind & Eng Chem 17:385-9 Ap '25; Abstract. Power 62:113-14 Jl 21 '25
Corrosion of iron by water. A. Pickles. Chem Age (Lond) 12:sup2 Ja 3 '25
Corrosion of iron in absence of oxygen. J. W. Shipley, I. R. McHaffie and N. D. Clare. Ind & Eng Chem 17:381-5 Ap '25; Abstract. Power 61:734 My 12 '25
Corrosion of iron in water and in neutral salt solutions. J: A. N. Friend. Chem Soc J 123:2996-9 N '23
Corrosion of metals. U. R. Evans. 212p Longmans '24
Corrosion of metals; abstracts of a symposium of the American chemical society. Metal Ind 23:191 My '25
Corrosion of metals; recent German research. Chem Age (Lond) 12:sup25-6 Ap 4 '25
Corrosion of monel metal in photographic solutions. J. I. Crabtree and G. E. Matthews. il Ind & Eng Chem 16:671-5 Jl '24
Corrosion of Muntz metal in sea water. W. Donovan and T. E. Perks. il Soc Chem Ind J 43:72-5 Mr 28 '24
Corrosion of some cast aluminium alloys and a method of protection. A. C. Zimmerman. il Ind & Eng Chem 17:359-62 Ap '25
Corrosion of the tin container by canned foods. H. W. Powell and E. W. McHenry. Can Chem & Met 8:185-6 Ag '24
Corrosion of tin. Textile Col 47:731 N '25
Corrosion of underground pipe lines. K. H. Logan. Chem & Met Eng 31:1011-12 D 29 '24
Corrosion of unlined stacks. F. Burton. Power 60:666-7 O 21 '24
Corrosion problem in connection with water works engineering. F. N. Speller. diags N E Water Works Assn J 39:90-100 Mr '25; Same. Eng & Contr (W W) 64:110-16 Jl 8 '25
Corrosion problems in the pulp plant. il Chem & Met Eng 31:54-6 Jl 14 '24; Same. Paper 34:617-18 Jl 24 '24
Corrosion resistance of electroplated coatings of zinc and zinc-mercury alloys. C. J. Wernlund. Am Electrochem Soc Trans v 45 (preprint 31):403-9 Ap '24; Same. Brass W 21:195-6 Je '25
Corrosion-resisting alloys. Engineering 120: 233-4 Ag 21 '25

CORROSION and anti-corrosives—*Continued*
Corrosion situation and its relation to the work of the American chemical society. W. M. Corse. Ind & Eng Chem 17:335-6 Ap '25
Corrosion—the constant menace of the chemical industry. il Chem & Met Eng 31:61-9 Jl 14 '24
Corrosion troubles in an oil refinery and some remedies for them. F. W. L. Tydeman. Nat Pet N 17:40+ Mr 4 '25
Corrosive action of brackish waters on metals. T. E. Perks. diag Soc Chem Ind J 43: 75-7 Mr 28 '24
Corrosive effect of slag. W. R. Dunham. diag Elec Ry J 64:732 O 25 '24
Deposition in mains. H. Wynne. Gas J (Lond) 166:47-9 Ap 2 '24
Deterioration of turbine blading in service. C. H. S. Tupholme. Power Pl Eng 29:387-8 Ap 1 '25
Dirty feed water cuts turbine blades. L. R. Wagner. il Power 60:1065-6 D 30 '24; Discussion. C. L. Orr. 61:348 Mr 3 '25
Economizer corrosion and dew point of flue gases. B. M. Thornton. Power 61:460 Mr 24 '25
Effect of alkaline solutions on the corrosion of steel immersed in water. F. N. Speller and C. R. Texter. diag Ind & Eng Chem 16: 393-7 Ap '24
Effect of hydrogen-ion concentration on the submerged corrosion of steel. G. W. Whitman, R. P. Russell, and V. J. Altieri. Ind & Eng Chem 16:665-70 Jl '24
Eliminating corrosion of steel poles. Ry R 76: 166-7 Ja 17 '25
Examples of graphitic corrosion. Chem & Met Eng 30:48 Ja 14 '24
Les expériences du Comité anglais des recherches relatives à la corrosion atmosphérique des métaux. Génie Civil 85:482-3 N 22 '24
Ferrous alloys resistant to corrosion. B. D. Saklatwalla. il Iron Age 113:1209-13 Ap 24 '24; Same cond. Chem & Met Eng 30:672-3 Ap 28 '24
Fertilizer industry conquering corrosion. flow sheet Chem & Met Eng 31:50-1 Jl 14 '24
Fighting rust with sublimed blue lead. 80p Eagle-Picher lead co., Chicago '23
Film protection as a factor in corrosion. F. N. Speller. Am Electrochem Soc Trans v 46 (preprint 22):313-25 O '24; Same. Chem Age 32:457-9 N '24
Fundamental factors in corrosion. G: M. Enos. Ind & Eng Chem 17:793-7 Ag '25
Fundamental factors of corrosion. W. G. Whitman and R. P. Russell. Chem & Met Eng 30:671-2 Ap 28 '24
Graphitic softening of cast iron. J. W. Shipley and I. R. McHaffie. il Ind & Eng Chem 16:573-5 Je '24
Heat-treatment of non-corrosive steels. J. K. Wood. Am Mach 62:567-70 Ap 9 '25
How acid mine water affects corrosion-resisting metals. R. J. McKay. Chem & Met Eng 30:228-9 F 11 '24
How metals stand up against corrosion. Chem & Met Eng 31:70-9 Jl 14 '24; Excerpts. Brass W 20:270-2, 309-13 Ag-S '24
How the petroleum industry is solving its corrosion problems. flow sheet il Chem & Met Eng 31:42-6 Jl 14 '24
How the ravages of corrosion can be reduced. C. A. McAllister. Marine Eng 29:663-4 N '24
How the wood distiller dodges corrosion. flow sheet Chem & Met Eng 31:52-3 Jl 14 '24
How to correct and prevent corrosion of steel. T. A. Smith. il diags Concrete 25:79-81 S '24; Excerpts. Eng N 93:879-80 N 27 '24
Industrial aspects of corrosion and electric heating. il Chem & Met Eng 31:583-6 O 13 '24
Influence of emulsoids upon the rate of solution of iron. J. N. Friend, D. W. Hammond and G. W. Trobridge. Am Electrochem Soc Trans v 46 (preprint 14):197-208 O '24
Influence of nickel and chromium upon the solubility of steel (in relation to corrosion). W. H. Hatfield. diag Iron & Steel Inst J 108:103-16, pl 9; Discussion. 117-23 no 2 '23
Influences of corrosion. Brass W 21:286 Ag '25
Internal corrosion and deposits in gas mains. W. V. Watson. il Gas Age 54:557-60 O 18 '24
Internal corrosion of gas holders. C. A. Schnerr. Am Gas J 120:263-4+ Mr 22 '24; Same abr. Gas J (Lond) 166:175-6 Ap 16 '24
Internal corrosion of holders. R: Engler. Am Gas J 123:509-10+ O 31 '25
Iron losses by corrosion. Iron Age 113:306 Ja 24 '24
Measuring the physical effect of corrosion. E. Blough. diags Eng N 95:185 Jl 30 '25
Mechanism of corrosion. J: Johnston. Ind & Eng Chem 15:904-5 S '23; Same. Brass W 19: 411-12 D '23
Memorandum regarding protective coatings suitable for service pipe. F. N. Speller and H. R. Redington. Am Gas Assn Technical sec v 6:1239-46 '24
Metallic corrosion in concentrated phosphoric acid. F. Clarkson and H. C. Hetherington. Chem & Met Eng 32:811 O '25
Metallschutz. E. Maass. Zeit Ver Deutsch Ing 68:880-3 Ag 23 '24
Metals for use in handling organic solvents; action of acetone and methanol. R. F. Remler. il Chem & Met Eng 30:511-12 Mr 31 '24
Method for eliminating rust in water. Chem & Met Eng 32:645 Jl '25
Methods of preventing corrosion of condenser tubes. J. Austin. Engineer 139:223 F 20 '25
Modern ideas on corrosion resistance; presented at the Atlantic City meeting of the American society for testing materials. Chem & Met Eng 31:83-5 Jl 14 '24; Foundry 52:552-3 Jl 15 '24; Mech Eng 46:486-7 Ag '24
Natural water corrosion of steel in contact with copper. W. G. Whitman and R. P. Russell. diag Ind & Eng Chem 16:276-9 Mr '24
Nature of corrosion in canned fruits. E: F. Kohman and N. H. Sanborn. Ind & Eng Chem 16:290-5 Mr '24
Oiling rails and fixtures to prevent corrosion. il Ry R 77:87-9 Jl 18 '25
Operating troubles of brass condenser tubes scientifically investigated. G. D. Bengough and R. May. diags Power 60:997-9 D 16 '24
Oxidation of copper-nickel alloys at high temperatures. N. B. Pilling and R. E. Bedworth. Ind & Eng Chem 17:372-6 Ap '25
Oxygen distribution as a factor in the corrosion of metals. U. R. Evans. diags Ind & Eng Chem 17:363-72 Ap '25
Paradox in corrosion. U. R. Evans. diags Chem & Met Eng 30:949-53 Je 16 '24
Passification and scale resistance in relation to the corrosion of aluminium alloys. H. L. Callendar. Engineering 120:340-2; Discussion. 331 S 11 '25
Pipe corrosion and problems of protection. H. S. Christopher. il Gas Age 56:283-5, 351-4 Ag 29, S 12 '25
Pitting and corrosion of heating boilers. Power Pl Eng 28:302-3 Mr 1 '24
Pitting and grooving in boilers; report to the Master boiler makers' association. Ry Mech Eng 98:558-9 S '24; Discussion. S. H. Woodroffe. 99:4 Ja '25
Pitting in two steel standpipes near St Louis, Mo. W. V. Weir. il Eng N 94:281 F 12 '25
Preventing corrosion of hydraulic turbines. il Power 60:576 O 7 '24
Preventing corrosion with water glass. F. N. Speller. Power 60:824 N 18 '24
Prevention of corrosion. Chem Age (Lond) 9: 566-7 N 24 '23
Prevention of corrosion. Engineering 119:237, 298-9, 322 F 20, Mr 6-13 '25
Prevention of corrosion of steel. B. Zschokke. Metal Ind 21:483 D '23
Problem of corrosion. U. R. Evans. Chem Age (Lond) 9:540 N 17 '23
Problem of corrosion in the coal-mining industry. G: M. Enos. il Eng Soc W Pa 39: 309-26; Bibliography. 326-7; Discussion. 328-39 D '23
Protecting rails from corrosion by oil spraying; abstract. Mech Eng 46:632 O '24

CORROSION and anti-corrosives—*Continued*

Protection of oil and gas field equipment against corrosion. R. Van A. Mills. il diags U S Bur Mines Bul 233:1-127, pl 1-19 '25; Excerpts. Pet Age 16:26-7 Jl 1 '25; Dom Eng 113:18 O 31 '25

Rapid corrosion of condenser tubes. G. D. Bengough and R. May. il diags Engineer 136:7-10 Jl 6 '23; Abstracts. Mech Eng 45: 542-4 S '23; Power 58:235 Ag 7 '23; Discussion. Engineer 137:278-9 Mr 14 '24

Rapid corrosion of metals by acids within capillaries. L. McCulloch. Am Chem Soc J 47:1940-2 Jl '25

Recent advances in the study of corrosion. J. N. Friend. Chem Age (Lond) 9:684-5 D 22 '23; Same. Soc Chem Ind J (Chem & Ind) 42:1255 D 28 '23; Same. Gas J (Lond) 116: 230-1 Ap 23 '24

Recent development in rustproofing. L. F. Hirsch. Elec W 86:322 Ag 15 '25

Recent developments in corrosion-resisting steels. W. H. Hatfield. Engineering 119:319 Mr 13 '25

Recent observations regarding the corrosion, cleansing, and protection of aluminum. H. A. Gardner. il Mech Eng 46:206-7 Ap '24

Relation between tarnishing and corrosion. U. R. Evans. il Am Electrochem Soc Trans v 46 (preprint 6):75-100 O '24; Excerpt. Brass W 21:325 S '25

Relation of hydrogen ion concentration to the corrosion of iron. J. W. Shipley and I. R. McHaffie. il diags Can Chem & Met 8:121-4 My '24

Remedies for tower-footing corrosion. E. H. Steele. Elec W 85:880-1 Ap 25 '25

Removal of rust by electrolytic processes. J. P. McLare. diags Engineering 117:25-9 Ja 4 '24

Repairing steel floor framing damaged by corrosion. il diag Eng N 93:131 Jl 24 '24

Report of committee B-3 on corrosion of non-ferrous metals and alloys. Am Soc T M Pro 24 pt 1:281-95 '24

Report of sub-committee III on inspection of the Fort Sheridan, Pittsburgh, and Annapolis tests. Am Soc T M Pro 24 pt 1: 223-5 '24

Report of sub-committee V on total immersion tests. Am Soc T M Pro 24 pt 1:226-32 '24

Resistance of various aluminum alloys to salt-water corrosion. D. Basch and M. F. Sayre. il Mech Eng 46:199-201; Discussion. 201-5 Ap '24

Resistance to corrosion of electro-deposited chromium; abstracts. E. A. Ollard. Engineer 140:236-7 S 4 '25; Elec R (Lond) 97: 393 S 4 '25; Chem Age (Lond) 13:245 S 5 '25; Engineering 120:408-9 O 2 '25

Results of study of corrosive action of mine water. Coal Age 25:402 Mr 13 '24

Role of carbon dioxide in corrosion of iron. T. Fujihara. Chem & Met Eng 32:810-11 O '25

Rubber sleeves protect propeller shafting from corrosion. P. E. Dampman. il India Rubber W 70:641-2 Jl '24; Same. Marine Eng 29: 479-80 Ag '24

Rust a mighty destructive force. diag Sheet Metal Worker 15:426 Je 20 '24

Rust resistance of plated articles by heavier deposits of nickel. E. M. Baker. Brass W 21:161-3 My '25

Rustproofing of steel materials. M. E. McDonnell. il Ry Age 79:849-52 N 7 '25

Self corrosion of lead cable sheath. F. O. Anderegg and R. V. Achatz. Purdue U Eng Exp Sta Bul 18:1-46 '24

Seventh report of the Institute of metals to the committee on corrosion. Can Chem & Met 8:267-8 N '24

Seventh report to the Corrosion research committee of the Institute of metals; abstract. G. D. Bengough and R. May. Brass W 20: 350-1 O '24; Same. Chem Age (Lond) 11: 263 S 13 '24; Same. Engineering 118:378-9; Discussion. 379 S 12 '24

Soil corrosion of gas distributing systems. H. S. Christopher. il Gas Age 54:633-8 N 1 '24

Solubility of ferrous hydroxide and its effect upon corrosion. W. G. Whitman, R. P. Russell and G. H. B. Davis. Am Chem Soc J 47:70-9 Ja '25

Some notes on corrosion. E. C. Trax. Am Water Works Assn J 14:255-9 S '25

Special corrosion problems in oil refining. R. E. Wilson and W. H. Bahlke. diag Ind & Eng Chem 17:355-8 Ap '25; Same. Nat Pet N 17:92+ Je 10; 55-6 Jl 1 '25

Spraying as an antidote for condenser tube corrosion. F. Johnstone-Taylor. Marine Eng 30:145-6 Mr '25

Submerged corrosion of iron. W. G. Whitman and R. P. Russell. Soc Chem Ind J 43: 193-6, 197-9 Je 27-Jl 4 '24

Sure supply of good water most vital to natural gasoline plant. E. Kaye. Nat Pet N 17:40G-J Ap 29 '25

Surface abrasion as a potential cause of localized corrosion. U. R. Evans. Power 61: 925 Je 9 '25

Symposium on corrosion-resistant, heat-resistant and electrical-resistance alloys; introduction—with tabulation of manufacturers' data on composition and properties of the alloys. Am Soc T M Pro 24 pt 2: 189-453 '24

Tabular presentation of chemical and physical properties of corrosion-resisting alloys. Chem & Met Eng 31:79-83 Jl 14 '24

Ueber die ursachen der vorzeitigen zerstörung von rippenschwellen. R. Kühnel and G. Marzahn. il Stahl & Eisen 44:175-8 F 14 '24

Undue wear of engine parts is caused by rust. il Automotive Ind 50:956-8 My 1 '24

United States government master specification for heavy rust-preventive compound. U S Bur Stand Circ 200:1-4 '25

Various ways of preventing corrosion in hot water supply systems. C. R. Texter. diags Sanitary & Heat Eng 102:329-31+ N 14 '24

Das verhalten von eisen, rotguss und messing in salzhaltigen wässern bei gewöhnlicher temperatur und bei den im dampfkessel herrschenden temperaturen und drücken. O. Bauer. il diags Stahl & Eisen 45:1101-9 Jl 9 '25

Water-line corrosion of iron and steel, with special reference to the action of the so-called inhibitors of corrosion. U. R. Evans. diags Soc Chem Ind J 44:163-9 Ap 10 '25

Will zinc stop corrosion? J. H. Kaylor. Power 60:777 N 11 '24

Wiring in a corrosive atmosphere. Elec R (Lond) 94:369-70, 448, 492, 529 Mr 7, 21-Ap 4 '24

Zur frage der anfressungen von turbinenlaufrädern. Feifel. il diags Zeit Ver Deutsch Ing 69:815-18 Je 13 '25

See also Acid-resisting materials; Alloys; Calorizing; Concrete—Protection; Electrolytic corrosion; Galvanizing; Iron, Stainless; Metal coating; Metal protection; Paint, Protective; Pipe oiling; Steel—Protection; Water—Deactivation and deaeration; Water pipes—Corrosion; Water pipes—Protection; Zinc plating

Bibliography

Bibliography of the corrosion of metals and its prevention. N. Van Patten. 176p N. Van Patten, Marblehead, Mass. '23

Electrochemical theory

Common occurrence of corrosion by electrolyte concentration cells. R. J. McKay. Ind & Eng Chem 17:23-4 Ja '25

Electrochemical character of corrosion. U. R. Evans. Brass W 19:367-71; 20:53-7, 89-92, 125-8 N '23, F-Ap '24

Electrolytic theory of corrosion. W. D. Bancroft. J Phys Chem 28:785-871 Ag '24

Electrolytic theory of corrosion; comments on Wilder D. Bancroft's recent paper. F. N. Speller and F. G. Harmon. Am Electrochem Soc Trans v 46 (preprint 17):247-50 O '24

CORROSION and anti-corrosives—Electrochemical theory—*Continued*
Micro-chemistry of corrosion. C. H. Desch. Am Electrochem Soc Trans v 46 (preprint 18):251-6 O '24
Nature of corrosive action, and the function of colloids in corrosion, with an appendix on terms used in colloid chemistry; abstract. G. D. Bengough and J. M. Stuart. Am Water Works Assn J 13:349-50 Mr '25
Newer electrochemical view of the corrosion of metals. U. R. Evans. diags Soc Chem Ind J (Chem & Ind) 43:222-3 F 29 '24
Study of corrosion factors and the electrochemical theory. F. N. Speller. diags Ind & Eng Chem 17:339-46 Ap '25; Same. Refrig Eng 12:58-64 Ag '25

Testing

Accelerated corrosion tests of copper-zinc alloys by salt spray. W. H. Bassett and H. A. Bedworth. Ind & Eng Chem 17:346-8 Ap '25
Accelerated corrosion tests on wire and strand. F. F. Fowle. diag Eng N 95:185-7 Jl 30 '25
Accelerated electrolytic corrosion test. R. J. Anderson and G: M. Enos. il diag Am Soc T M Pro 24 pt 2:735-52; Discussion. 753-66 '24
Corrosion by city gas. C. H. S. Tupholme. Iron Age 116:738 S 17 '25
Device for estimating corrosion. W. R. Fetzer. diags Ind & Eng Chem 17:788 Ag '25
Electrochemical method for estimating the corrosion of iron and steel. H. Beeny. il diag Am Electrochem Soc Trans v 48 (preprint 14):135-49 S '25
Insoluble anodes for electrolysis of brine; the lead-silver series. C. G. Fink and Li Chi Pan. Am Electrochem Soc Trans v 46 (preprint 8):129-35 O '24
Laboratory corrosion tests. W. S. Calcott and J. C. Whetzel. Am Inst Chem Eng Trans v 15 pt 1:1-113 [bibliog. p. 85-103]; Discussion. 142-53 '23; Same, with Materials of construction for chemical engineering apparatus, by H. F. Whittaker. 182p Van Nostrand '23
Monograph on corrosion tests and materials of construction for chemical engineering apparatus. W. S. Calcott, J. C. Whetzel and H. F. Whittaker. 182p [bibliog. p. 85-103] Van Nostrand '23
Notes on corrosion testing by different immersion methods. H: S. Rawdon and A. I. Krynitsky. il diags Am Electrochem Soc Trans v 46 (preprint 20):273-86 O '24
Practical use of laboratory corrosion tests. W. E. Pratt and J. A. Parsons. il diag Ind & Eng Chem 17:376-81 Ap '25
Rate of boiler corrosion determined by simple tests. T. R. McDermet. Power Pl Eng 29: 205-6 F 1 '25
Tests for corrosibility of water. J. W. Ledoux. Eng N 93:861 N 27 '24
Tests of some rust-preventing materials suitable for the protection of stored machinery. C. Jakeman. il diags Engineering 120:123-5 Jl 31 '25; Correction. 120:260 Ag 28 '25
Tests steel plates of Leviathan. G. B. Waterhouse. il Iron Tr R 75:229-30 Jl 24 '24; Same. Marine R 54:319-20 Ag '24
Types of apparatus used in testing the corrodibility of metals. H: S. Rawdon, A. I. Krynitsky and W. H. Finkeldey. il diags Am Soc T M Pro 24 pt 2:717-34; Discussion. 753-66 '24

CORRUGATED ships. See Ships, Corrugated

CORRUGATING machines
Corrugating oven sheets. P. J. Schneider. il Mach 31:389-90 Ja '25

CORRUGATING rollers. See Pavements, Concrete—Corrugating

CORSETS
Large uses of steel in small ways; corsets. il Iron Tr R 73:1427 N 22 '23

Advertising

And they say women don't reason. Ptr Ink 132:10+ Ag 6 '25
Madame X—a mail-order success that was shifted to dealers. C: G. Muller. Ptr Ink 129:88+ O 16 '24

CORSETS, Rubber
Development of materials and technique in rubberizing corset and girdle cloth. il plan India Rubber W 71:149-51 D '24
Rubber reducing corsets. il India Rubber W 70:713-14 Ag '24
Rubber reducing corsets being marketed. N. K. Ransom. Rubber Age 15:257-8+ Jl 10 '24
Textiles for reducing corsets. R. C. Kelley. Textile World 66:2509-10 N 1 '24

CORUNDUM
Crystal structures of hematite and corundum. L. Pauling and S. B. Hendricks. diags Am Chem Soc J 47:781-90 Mr '25
Grinding wheels and precious stones. il Am Mach 62:416 Mr 12 '25
Marketing emery and corundum. H. A. Plusch. il Eng & Min J 118:339-40 Ag 30 '24
South African corundum grades. Eng & Min J 119:933 Je 6 '25

CORUNDUM, Artificial
Quantitative determination of iron existing as ferrosilicon in artificial corundum. R. A. Heindl. Am Cer Soc J 8:671-6 O '25

COSMETICS
1,675 face powders—who pays? I. S. Paull. il Nation's Business 13:66+ Je '25

COST
Can a wholesale business grow too large? L. D. H. Weld. il System 46:267-9 S '24
Incidence of costs. T. N. Carver. Econ J 34: 576-88 D '24
Means of reducing costs discussed at the national convention of the Society of industrial engineers, Buffalo. Iron Age 113:1437-8 My 15 '24; Iron Tr R 74:1250-1 My 8 '24

See also Cost accounting; Factory costs; Labor cost; Power cost; Prices; Sales costs; *also* subdivision Cost and Costs under special subjects, e.g. Building—Cost; Railroads—Costs

Bibliography

Sources of cost information. Special Lib 15: 107-10 My '24

COST accounting
Accountancy and its relation to efficiency and peace in industry. A. Nimmo. Paper Tr J 79:49-52+ Jl 17 '24
Administrative and selling costs, their nature and distribution. W. H. Higginbotham; A. Stewart. Paper Tr J 80:63-6+ Je 11; 53-5 Je 25 '25
Advantages and disadvantages of the estimated cost system. A. F. Stock. Paper Tr J 77:57-9 D 20 '23 [reprinted from Administration Ja '22]
Analysis of a machine-shop problem on a quantity and final-economy basis. A. L. De Leeuw. diags Mech Eng 46:335-8+ Je '24
Analyzing statements of operating results. G: S. Cremer and W: R. Drachbar, Management & Adm 8:507-8 N '24
Application of the formulas for computing economies of labor-saving equipment. G: Langford, jr. il Mech Eng 47:408-10 sec 2 My '25
Appraisals and the profit and loss statement. H. G. Baldwin. Paper Tr J 80:57-60 My 28 '25
Benefits secured from uniform methods of cost accounting. R. E. Belt. Paper Tr J 78: 59-61 Ja 3 '24
Brennende probleme der betriebsorganisation und ihre natürliche lösung. G. Schlesinger. il diags plan Zeit Ver Deutsch Ing 68:459-62 My 10 '24
Budgetary control in cost accounting. C: R. Stevenson. Elec Ry J 66:701-2 O 17 '25
By-products, co-products and joint products. H. L. Ducker. J Account 40:276-85 O '25
Can you trust your cost system? W: R. Basset. Factory 35:47-8+ Jl '25

COST accounting—*Continued*
Capital requirements and control. J. H. Bliss. Management & Adm 6:705-8 D '23
Checking up on profit during construction. B. Lawrence. Eng N 94:518-22 Mr 26 '25
Chemical engineers discuss costing problems. Chem Age (Lond) 11:516-18 N 22 '24
Chemical works costs. F. M. Potter and others. Soc Dyers & Col J 41:77-81 F '25
Combined record system for costs and inventory. W: L. Myles. Am Mach 60:575-8 Ap 17 '24
Complete operation of a practical cost system. A. H. Gibson. Factory 32:170-2+ F '24
Computing savings with material handling equipment. Chem & Met Eng 29:1061 D 10 '23
Co-operation between the comptroller and the engineer. Paper Tr J 80:51-4 Ap 23 '25
Correct costs at little expense. G. G. Thompson. chart Management & Adm 8:517-20; 9: 67-70, 169-72 N '24, Ja-F '25; Same (pt. 1). Paper Tr J 79:59-62 D 4 '24
Cost accounting. W: B. Lawrence. 528p Prentice-Hall '25
Cost accounting—an industrial accelerator. H. E. Zitkowski. Chem & Met Eng 31:103-6 Jl 21 '24
Cost accounting and price control. D. L. Moran. Cassier's Ind Management 12:445-7 S '25
Cost accounting as a business investment. J. A. Lacey. Paper Tr J 78:57-60 Je 26 '24
Cost accounting for sheet metal shops. A. E. Munkel. Sheet Metal Worker 16:77+ Mr 13 '25
Cost accounting for the heating contractor. A. J. Peel. Heat & Ven 22:49-53 Ag '25
Cost accounting fundamentals from the standpoint of management. L. T. Konopak. 235p Ronald press '24
Cost accounting in aerial transportation. E. D. Osborn. Aviation 15:628-30 N 19 '23
Cost accounting in relation to industrial policy. S. L. Gill. Cassier's Ind Management 12:333-5, 369-71 Je-Jl '25
Cost accounting in the cement industry. O. N. Lindahl. Ind Management 69:122-6 F '25; Same. Concrete (cement mill sec) 26:63-7 My '25
Cost accounting increases profits. G. M. Pelton. Management & Adm 9:271-4 Mr '25; Same. Paper Tr J 80:59-61 Ap 9 '25
Cost accounting, its higher organization and control. W. Ainsworth. 96p Pitman '24
Cost accounting manual for the knitted outerwear industry. W. Lutz and S. R. Gordon. 145p National knitted outerwear assn., inc., New York '24
Cost accounting, principles and practice. J: P. Jordan and G. L. Harris. 2d ed., rev. 562p Ronald press '25
Cost accounting, theory and practice. J. L. Dohr. 631p Ronald press '24
Cost accounting, theory and practice. H. W. Wright. 68p Bennett accountancy institute, Phila. '24
Cost accounts. G: H. Newlove. 3d ed. 183p White press co., Washington '23
Cost control for knit underwear factories. 259p Ronald press '24
Cost control for the mechanical department. G: W. Armstrong. il Ry Mech Eng 98:459-63 Ag '24; Same. Ry Age 77:363-7 Ag 30 '24
Cost epigrams for the small manufacturer. W. R. Stults. Ind Management 68:361 D '24
Cost figures from the viewpoint of the factory executive. J. E. Andrew. Paper Tr J 81:57-8 S 24 '25
Cost finding in woolen mills. W. M. Caudell. Textile World 65:107+ Ja 5 '24
Cost finding of flat-knitted silk fabric. R. Presgrave. Textile World 68:1609+, 2487+ S 19, O 24 '25
Cost finding principles for furniture factories. H. D. Potter. 140p Periodical pub. co., Grand Rapids, Mich. '24
Cost finding system for garments. C. G. Daughters. Management & Adm 9:443-6 My '25
Cost information and the worker. H. G. Jenkins. Paper Tr J 78:65 F 14 '24
Cost keeping for concrete products plants. W: J. Rathke. Concrete 24:157-8 Ap '24; Same. Eng & Contr (Bldgs) 61:1413-15 Je 25 '24
Cost keeping for line construction. R. A. Miller. Elec W 86:73-4 Jl 11 '25
Cost of making special apparatus. C. H. Roth. Elec W 86:39-40 Jl 4 '25
Cost records that led to 50% less expense. T. J. Flood. System 45:206+ F '24
Cost system that helps the production executive; Strietmann biscuit company. O. C. F. Lippert. il Factory 34:278-80+ F '25
Costing and time-booking. F. A. R. Paton. Engineer 138:633-4 D 5 '24
Costing for the production engineer. F. A. R. Paton. Cassier's Ind Management 11:235-7 My 1 '24
Costing of winding and insulating coils. F. C. Lawrence. Elec R (Lond) 95:242-4, 278-80, 318-19, 375-6, 409-10, 445-6 Ag 15-S 19 '24; Discussion. F: W. Pope. 95:487 S 26 '24
Costing schemes from the manufacturers' standpoint. A. J. Simons. Cassier's Ind Management 12:189-90, 296-8, 405-7 Mr, My, Ag '25
Costs and a cost system. H. P. Dix. Am Mach 60:853-5 Je 5 '24
Costs as an aid to management. G. C. Harrison. Ann Am Acad 119:60-3 My '25
Costs for executives. N. A. Hall. Ind Management 67:325-8; 68:14-17, 135-8, 283-6; 69: 24-7 Je-Jl, S, N '24, Ja '25
Departmental and standard costs. W: S. Kemp. 85p National association of cost accountants, New York '23
Determining the selling price of machine tools; figuring costs on five-year averages. H. R. Simonds. Iron Tr R 75:35-8 Jl 3 '24
Economic efficiency of the full-automatic turret lathe in comparison with the semi-turret lathe. R. J. Wadd. Mech Eng 47: 411-14 sec 2 My '25
Electro-plating costs. J. Haas, jr. Metal Ind 23:18-20 Ja '25
Elements of cost accounting. A. B. Manning. 166p McGraw-Hill '24
Die entwicklung und vervollkommnung der selbstkostenrechnung in der mechanischen industrie. Schulz-Mehrin. Elektrotech Zeit 46:1547-50 O 8 '25
Estimating shop costs for profits. P. L. Dildine. Ind Management 68:119-20 Ag '24
Evaluating the cost department. Mech Eng 46:477-9 Ag '24
Executive uses of costs. H. Berry. Paper 34: 944-7 S 11 '24
Executive's viewpoint in reference to cost figures. E. K. Hubbard. Paper Tr J 81:66+ Ag 6 '25
Expense allocation. A. C. Hodge. Univ J of Business 3:255-73 Je '25
Expense of power and building service. J. P. Kendall. Paper Tr J 78:54-6 F 21 '24
Factors concerning the economics of shopping steam locomotives. L. K. Sillcox. Mech Eng 47:419-25 sec 2 My '25; Same cond. Ry Age 78:1263-6 My 23 '25; Same cond. Am Mach 62:915-18 Je 11 '25; Same cond. Ry Mech Eng 99:355-60 Je '25; Same cond. Ry R 76:1147-9 Je 20 '25
Fallacy of management—that average costs are of any value. B. M. Maynard and J. Heywood. Factory 32:330-1+ Mr '24
5th annual conference of the National association of cost accountants, Sept. 22-25. Management & Adm 8:413-16 O '24
Finding and making use of factory costs. A. W. Rowley. Ind Management 67:195-200 Ap '24
Finds costs by uniform method. R. E. Belt. Iron Tr R 75:604-6 S 4 '24
First steps in cost accounting in trade associations. T: J. Burke. Paper Tr J 78:309+ Ap 10 '24
Formulas for computing economies of labor-saving equipment. Mech Eng 47:59-62 Ja '25

COST accounting—*Continued*
Formulas for computing economies of labor-saving equipment. J. A. Shepard and G: E. Hageman. Mech Eng 47:403-8 sec 2 My '25; Same. Cassier's Ind Management 12:434-40+ S '25
Function of costing in industrial relations. J. A. Lacey and H. G. Jenkins. Paper Tr J 79: 53-5 O 16 '24
Der gegenwärtige stand der selbstkostenberechnung. A. Hellwig. Elektrotech Zeit 46:307-9 F 26 '25
Der gegenwärtige stand der selbstkostenberechnung. O. Schulz-Mehrin. Elektrotech Zeit 45:366-8 Ap 17 '24
Getting at costs by the point method. R. E. Roesler. Factory 32:662-3 My '24
Getting job costs without guesswork. W. N. Polakov. Ind Management 69:269-72 My '25
Hiding and seeking costs. S: Lion. Inland Ptr 72:756-8 F '24
How a cost system was started. R. Graves. Paper 35:93-5 N 6 '24
How can cost work be simplified without impairing accuracy. F. H. Corregan. Paper Tr J 81:63-5 N 5 '25
How to fan out your space charges. G: K. Barrett. Paper Tr J 78:68+ My 8 '24
How to keep costs on construction work. A. L. Hartridge. chart Eng N 94:479-82 Mr 19 '25
How we cut the cost of cost-finding. H. W. Ross. System 48:423-4 O '25
How we keep costs at their proper level. E. F. Roberts. Factory 33:650-3+ N '24
Identification of material handling costs develops unusual possibilities. il plan Ry R 75:706-14 N 8 '24
Importance of figuring taxes into costs. F. T. Owens. Am Cer Soc J (Bul) 6:364-6 D '23
Improving cost accounting methods. H. G. Schnackel. Rubber Age 16:297-300+ F 10 '25
Increased profits through control of costs. R. W. Darnell. Management & Adm 6:301-4, 459-66, 605-10, 755-62; 7:51-6, 183-6 S '23-F '24
Increasing demand for reliable cost data. R. Atkins. Ind Management 66:335-6 D '23
Industrial cost accounting for executives. P. M. Atkins. Am Mach 60:201-4, 287-90, 329-33, 353-6, 403-6, 433-5 F 7, 21-Mr 20 '24
Industrial cost accounting for executives. P. M. Atkins. 320p McGraw-Hill '23
Is cost accounting profitable? A. J. Peel. Inland Ptr 75:556-8 Jl '25
Is our investment in cost accounting profitable? T: W. Howard. Factory 31:172-4+, 318-21, 466-7, 605-7, 760-1 Ag-D '23
Is this the way of progress in cost accounting? results when industries pool their cost figures. Factory 34:755+ My '25
Job costs for machine shops. J: C. McNeil. Am Mach 60:427-8 Mr 20 '24
Labor problem. A. Wilkinson. Paper Tr J 80: 55-6; Discussion. 56-8 Ja 15 '25
Labor problem; industrial relations and accounting for labor. J. P. Jordan. Paper Tr J 80:53-6 Ja 22 '25
Labor-saving equipment in road construction. E. H. Lichtenberg and J. A. Shepard. il Mech Eng 47:414-15 sec 2 My '25
Management function in business. J. G. Steele. Paper Tr J 80:53-6 Ap 30 '25
Measuring sales effort results; the fallacy of an average cost. W. A. McDermid. Management & Adm 9:33-7 Ja '25
Methods of 42 manufacturers in distributing expenses to product. C: Reitell. Management & Adm 10:87-92 Ag '25
Methods of supplying cost information to foremen. H. Diemer. Paper Tr J 79:61-3 Jl 3 '24
Need for scientific costing in modern business. A. W. Kirkaldy. Paper Tr J 81:60 S 17 '25
New cost formulas for firebrick. G: W. Greenwood. diags Management & Adm 9:261-4 Mr '25
On what basis should raw material be charged into production costs? W. S. Kemp. Paper Tr J 78:63-4 Mr 6 '24
Operation control through a cost system. J: L. Walther. Management & Adm 6:709-14 D '23
Organization of the accounting division. F: A. Waldron. Management & Adm 7:427-30 Ap 24
Organizing a business for cost reduction. J: H. Van Deventer. Ind Management 68:193-7 O '24
Our cost-finding methods keep revealing new savings. E. V. Connett, jr. Factory 32:42-4 Ja '24
Our largest savings come from prompt costs. H. S. Owen. Factory 35:199-200+ Ag '25
Picking the profitable products. R. Rosenthal. Management & Adm 9:429-31 My '25
Practical cost accounting. C. Young. Sheet Metal Worker 16:196-7+, 233-4+, 267-8+ Ap 24-My 22 '25
Preventing losses in repair work. H: M. Burke. Textile World 65:3161+ My 10 '24
Principles of costing. A. Cathles. 2d ed. 108p Gee & co., ltd., London '24
Problem of costing under various wage systems. T: H. Sanders. Paper Tr J 78:57-60 Mr 20 '24
Profit or loss in material handling. J. A. Shepard. Management & Adm 6:739-42 D '23
Reasonable cost plan that safeguards profits. il System 47:474-6+ Ap '25
Recording job costs to show profits. G. C. Brown. Management & Adm 8:53-8 Jl '24
Reduction of production costs. H. Varley. Cassier's Ind Management 11:41 Ja 24 '24
Report on cost accounting in the pottery industry. E. J. Borton. Brick & Clay Rec 64:351-3 Mr 4 '24
Revolt of the executive. B: A. Franklin. Factory 34:32 Ja '25
Should research be charged to sales expense? Ptr Ink 132:57-8+ S 24 '25
Solutions to cost accounts. G: H. Newlove. 2d ed. 70p White press co., Washington, D.C. '23
Some practical suggestions on costs and production. W. Webb. Ind Management 70:24 Jl '25
Standards as a medium of cost control. E. A. R. Paton. chart Elec R (Lond) 94:406-8 Mr 14 '24
Statistical summary and abstract; practice in cost organization and in the executive utilization of cost data obtained from 160 American industrial concerns. Ind Management 68:197-220 O '24
Suggestion for cost accounting. P. K. Guillow. plan Ind Management 69:174-6 Mr '25
Supplementing work of cost system installation. R. Atkins. Paper Tr J 78:59-60+ My 22 '24
Supplying financial and cost information; what should be given to department heads? G. M. Pelton. Management & Adm 7:169-72 F '24
Technical accounting in the sugar industry. H. E. Zitkowski. Am Inst Chem Eng Trans v 16 pt 1:55-67 '24; Same. Chem & Met Eng 31:103-6 Jl 21 '24
Textbook of industrial cost accounting. P. M. Atkins. 396p McGraw-Hill '24
To what extent and in what manner should detailed cost figures be given to department heads? L. M. Lamb. Paper Tr J 78: 85-8+ Ap 3 '24
Treatment of idle time. S. L. Gill. Paper Tr J 79:85-7 N 27 '24
Use of interest in figuring production cost. J. P. Jordan. Management & Adm 9:145-8 F '25; Same. Paper Tr J 80:53-5 My 21 '25
Using cost figures. W: R. Basset. Textile World 65:93+ Ja 5 '24
Way we get accurate costs. C: Forbes. System 47:60+ Ja '25
We find a more direct way of getting costs. J: W. Schippmann. System 48:59-60+ Jl '25
What kind of cost reports does the president want? H. Diemer. Paper Tr J 78:55-6+ My 29 '24
What the paper mill executive wants from the cost accountant. W. W. Sunderland. Paper Tr J 81:42+ Jl 2 '25

COST accounting—*Continued*

Why cost figures changed our 165-year-old policies. E. S. Phillips. Factory 33:639-41 N '24

Why spending more on cost accounting saved us money. H. R. Peters. System 46:152-5+ Ag '24

Working plans for profit. G. C. Harrison. Management & Adm 9:41-5, 165-8, 249-52 Ja-Mr '25

See also Accounting; Budget, Business; Depletion; Depreciation; Electric trucks—Accounting; Estimates; Foundry accounting; Inventories; Labor cost; Overhead expense; Payrolls; Power cost—Accounting; Sales costs; *also* Institute of cost and works accountants

Bibliography

Sources of cost information. Special Lib 15: 107-10 My '24

COST association of the paper industry

Semi-annual convention, 13th, Middletown, Ohio. Paper Tr J 80:65-8+ Je 4 '25

COST of doing business. See Jobbers—Costs; Retail trade—Costs

COST of living

Comparison of the levels of real wages in certain capital cities. Int Labour R 10:630-52; 11:561-72 O '24, Ap '25

Cost of living; an unsound basis for wage settlements. E. Benn. Electrician 93:16+ Jl 4 '24; Same. Chem Age (Lond) 11:10 Jl 5 '24

Cost of living in foreign countries. Monthly Labor R 21:56-63 Jl '25

Cost of living index. J: Whyte. Credit M 26: 10-11+ Ag '24

Cost of living; international comparison of price levels. Index p 8-9 My '25

Cost of living trending upward in all countries except Great Britain and India. Comm & Fin Chr 121:1397-8 S 19 '25

Prices and cost of living. Published in monthly numbers of International labour review and in Monthly labor review

Relation between wages and board. Eng N 92: 1026 Je 12 '24

Retail food prices and cost of living in principal countries. Published in monthly numbers of Federal reserve bulletin

Wage status analyzed by National industrial conference board. Iron Tr R 74:245 Ja 17 '24

Wages and the cost of living. R. J. Andersen. Ind Management 68:260-5 N '24

What it costs to live now days. Ry R 77: 252-3 Ag 15 '25

See also Index numbers (economics); Prices; Standard of living

Statistics

Cost of living statistics of U.S. Bureau of labor statistics and the National industrial conference board; comparison of methods used. E. B. Carr. Am Statis Assn J 19:484-507 D '24

Brazil

Cost of living in Brazil. Monthly Labor R 20:1251 Je '25

Brooklyn, New York

Survey of the cost of living and average wages in the Borough of Brooklyn in the past ten years. Comm & Fin Chr 120: 1537-8, 1949 Mr 28, Ap 18 '25

Canada

Cost of living in Canada, 1913 to 1924. Monthly Labor R 21:517 S '25

China

Cost of living of Tsing Hua college employees, Peking, China. Monthly Labor R 20:57-8 Ja '25

See also **Prices—China**

Hungary

Adaptation of wages to the cost of living in Hungary. D. Pap. Int Labour R 11:153-68 F '25

Iceland

Cost of living, retail prices, and building costs in Reykjavik, Iceland. Monthly Labor R 20: 1031-2 My '25

Mexico

Cost of living of Americans in Mexico. Monthly Labor R 20:1251-2 Je '25

Living and operating expenses in Mexico. Eng & Min J 119:755, 1013; 120:259-60 My 9, Je 20, Ag 15 '25

Peru

Cost of living in Peru, 1913 to 1924. Monthly Labor R 20:1252-3 Je '25

Rumania

Cost of living and wage rates in Rumania. Monthly Labor R 19:1059-61 N '24

Spain

Cost of living and wholesale prices in Madrid, December, 1923 and 1924. Monthly Labor R 20:799-800 Ap '25

Sweden

Cost of living among rural workers in Sweden in 1920. Int Labour R 9:403-6 Mr '24

United States

Changes in cost of living in the United States, 1914-1925. Monthly Labor R 21:309-22 Ag '25

Changes in cost of living in various cities since 1914. Comm & Fin Chr 121:394 Jl 25 '25

Changes in cost of living since 1920 and since 1913. Comm & Fin Chr 118:489 F 2 '24

Cost of living in the United States. U S Bur Labor Statistics Bul 357:1-466 '24

Cost of living in the United States. 201p National industrial conference board, inc., New York '25

Cost of living of colored farm families. Monthly Labor R 20:797-9 Ap '25

Cost of living of farm families in Lebanon Town, Conn. Monthly Labor R 21:515-17 S '25

Cost of living statistics of U.S. Bureau of labor statistics and the National industrial conference board. E. B. Carr. Am Statis Assn J 19:484-507 D '24

Eleven year record of the food cost of living. Annalist 25:61 Ja 5 '25

Index of wholesale food prices. Published in weekly numbers of Annalist

Railway wages and cost of living. Ry Age 78:496 F 28 '25

Retail prices in the United States during October. Comm & Fin Chr 117:2271 N 24 '23 [continued monthly]

COST-plus-percentage contracts. See Contracts, Letting of

COSTA RICA

See Bonds, Government—Costa Rica; Insurance law—Costa Rica

COSTS. See Cost

COSTUME

Bibliography

Art in home economics. M. E. Clark and others, comps. 66p Univ. of Chicago press '25

COTTAGES

Cottage on estate of Richard Sellers, Bellevue, Delaware; views and plans. Am Arch 126:pl 94-6 S 10 '24

Graceful roof lines feature this cottage. W: F. Bennett, jr. il plan Bldg Age 45:54 D '23

Little English cottage; plans in blue print. Bldg Age 47:110-16 Ag '25

Low-cost cottage for engineer on remote construction job. G: H: Ellis. il plans Eng N 95:517-18 S 24 '25

Minor English domestic architecture. W: M. Clarke. Los Angeles pressed brick co., Los Angeles '23

COTTAGES—*Continued*
Simple colonial cottage; with blue prints and quantity survey. Bldg Age 47:110-16 Jl '25
Small and economical English type cottage; with quantity survey. il plans Bldg Age 46: 72-4 My '24
Two floor plans for these two cottages. il plans Bldg Age 47:134-5 Ap '25

See also Architecture, Domestic; Bungalows; Country houses

COTTON
Action of caustic soda on cotton. J. Huebner and E. Wootton. Soc Dyers & Col J 41:10-18 Ja '25
Action of heat on cotton cellulose. E. Knecht and E. F. Muller. Soc Dyers & Col J 41: 43-7 F '25
Action of light on cotton. P. W. Cunliffe. bibliog Textile Inst J 14:T314-18 S '23; Same, without bibliog. Soc Dyers & Col J 39:371-4 D '23
Action of strong inorganic and organic bases on cotton cellulose; abstract. F. Dehnert and W. König. Soc Dyers & Col J 41:257 Jl '25
Bacterial deterioration of cotton during damp storage. A. C. Burns. Textile Inst J 16: T185-96 [bibliog. p. 196] Je '25
Boosting of longer staple cotton. P. Tabor. Manuf Rec 88:73-4 Ag 27 '25
Causes of the recent large increase of the world's consumption of cotton. A. R. Marsh. Econ W n s 30:619-22 O 31 '25
Chemical properties of cotton; action of light. J. M. Matthews. Color Tr J 13:23-6 Jl '23
Comparison of the shade of cottons of different growths when dyed together in the same bath. D. A. Clibbens and B. P. Ridge. Textile Inst J 16:T305-10 O '25
Cotton: a plant of mystery. E. S. Harrington. Comm & Fin 14:101 Ja 14 '25
Cotton-cellulose; its chemistry and technology. A. J: Hall. 228p E. Benn, ltd., London; Van Nostrand, N.Y. '24
Cytology of the cotton plant. H. J: Denham. Textile Inst J 15:T474-500, pl 1-8 [bibliog. p. T491-2] O '24
Detection and estimation of cotton in mixtures. B. F. Wadsworth. Textile Col 45:443-6, 582-6, 722-5, 792-6; 46:370-3 Jl, S, N-D '23, Je '24
Dwindling cotton supply; science may make artificial fiber. T. H. Price. Comm & Fin 13:2047-9 O 22 '24
Further note on the mechanical powdering of cotton. M. Fort. Soc Dyers & Col J 40:142-4 My '24; Discussion. 40:231-2, 259 Jl-Ag '24
Has a boll weevil-proof cotton been developed? A. Richardson. il Manuf Rec 85:80 F 14 '24
Heritage of cotton, the fibre of two worlds and many ages. M. D. Crawford. 244p [bibliog. p. 233-7] Putnam '24
Inheritance of the number of boll loculi in cotton. S. C. Harland. bibliog Textile Inst J 14:T482-8 D '23
Introduction to cytology with special reference to the cotton plant. H. J: Denham. bibliog diags Textile Inst J 15:T464-71 O '24
Measurable characters of raw cotton; the determination of area of cross section and hair weight per centimetre. G. G. Clegg and S. C. Harland. Textile Inst J 14:T489-92 D '23; Same. Soc Dyers & Col J 40:55-7 F '24
Measurable characters of raw cottons; an approximation to the original cell diameter. M. Calvert and S. C. Harland. Textile Inst J 15:T8-9 Ja '24
Measurable characters of raw cottons; the breaking load of single cotton hairs. G. G. Clegg. bibliog Textile Inst J 15:T1-7 Ja '24
Miscellaneous uses of cotton. E: T. Pickard. Comm & Fin 14:863-4 sec 2 Ap 29 '25
Modern cotton economics. T: Thornley. 354p Van Nostrand '24
New cotton-growing lands of the world. E. Stockton. Econ W n s 29:692-3 My 16 '25
Physical causes of the lustre in cotton. A. Adderley. diags Textile Inst J 15:T195-206 Ap '24
Plant that clothes the world; a digest of cotton history and a look ahead. R: Spillane. Comm & Fin 13:105+ Ja 9 '24
Plasticity of cotton and other materials. F: T: Peirce. il diags Textile Inst J 14:T390-413 N '23
Rain-grown cotton and climate. E. E. Canney. map Textile Inst J 15:T533-42 [bibliog. p. T539-41] D '24
Raw-cotton resources. W. J. Spillman. Harvard Business R 3:466-73 Jl '25
Recent processes of altering the character of cotton. Schwarz. Chemicals (Dyestuffs sec) 17:73-4 S 14 '25
Sea Island cotton. Comm M 6:25-30 F '25; Same. Econ W n s 29:224-7 F 14 '25; Excerpts. Am Ind 25:30 F '25
La solution urgente du problème cotonnier: la "culture sèche" du cotonnier au Soudan français. P. Rignault. Génie Civil 84:192-3 F 23 '24
Some observations on sorption by cotton. H. F. Coward, L. Spencer and F: C: Wood. Textile Inst J 14:T529-33 D '23
Spontaneous combustion of cotton scientifically explained. Paper 35:637 Ja 29 '25
Textile hand book, cotton edition. 165p E. F. Houghton & co., Philadelphia '25
Thirty years of the boll weevil and still good crops of cotton. Manuf Rec 87:85-6 Mr 19 '25
Three views on sea-island cotton and the romance of its history. Manuf Rec 86:61-2 Ag 14 '24
Utilization of Pima cotton. H. H. Willis. U S Agric Bul 1184:1-27 '23
Viscosity of cotton cellulose. J. O. Small. diag Ind & Eng Chem 17:515-17 My '25

See also Bleaching—Cotton; Boll weevils; Cotton fabrics; Cotton fibers; Cotton machinery; Cotton manufacture; Cotton mills; Cotton trade; Dyes and dyeing—Cotton

Analysis

Alcohols present in the wax of American cotton. R. G: Fargher and M. E. Probert. bibliog Textile Inst J 15:T337-46 Je '24; Abstract. Soc Dyers & Col J 40:300 S '24
Chemical analysis in the study of cotton. T: Cantwell. Am Dyestuff Rep 13:671-2+ O 20 '24
Chemical analysis of cotton; micro-analytical methods for the examination of small quantities of waxes, in particular cotton wax. R. G: Fargher and L. Higginbotham. bibliog Textile Inst J 15:T75-80 Mr '24; Abstract. Soc Dyers & Col J 40:195-7 Je '24
Chemical analysis of cotton—oxycellulose. C. Birtwell, D. A. Clibbens and B. P. Ridge. bibliog Textile Inst J 16:T13-52 Ja '25; Abstract. Soc Dyers & Col J 41:185-6 My '25
Chemical analysis of cotton; the determination of copper number. D. A. Clibbens and A. Geake. bibliog Textile Inst J 15:T27-38 Ja '24; Same. Color Tr J 14:134-40 Ap '24; Abstract. Soc Dyers & Col J 40:126-7 Ap '24
Chemical analysis of cotton; the determination of fat, wax, and resin. P. H. Clifford, L. Higginbotham and R. G: Fargher. bibliog diags Textile Inst J 15:T120-37 Mr '24; Abstract. Soc Dyers & Col J 40:194-5 Ja '24
Chemical analysis of cotton; the determination of nitrogen in cotton. B. P. Ridge. bibliog diags Textile Inst J 15:T94-103 Mr '24; Excerpts. Soc Dyers & Col J 40:197-200 Je '24
Chemical analysis of cotton; the phosphorus content of cotton. A. Geake. bibliog Textile Inst J 15:T81-93 Mr '24; Abstract. Soc Dyers & Col J 40:194 Je '24
Constituents of raw cotton. A. J. Hall. diags Textile Col 46:421-5 Jl '24
Constituents of the wax of American (Mississippi Delta) cotton. P. H. Clifford and M. E. Probert. Textile Inst J 15:T401-13 Ag '24
Constituents of the wax of Egyptian Sakellaridis cotton. R. G: Fargher and L. Higginbotham. bibliog Textile Inst J 15:T419-33 S '24; Abstract. Soc Dyers & Col J 40: 421-2 D '24

COTTON—Analysis—*Continued*
Determination of nitrogen in cotton. B. P. Ridge. Soc Dyers & Col J 40:259-60 Ag '24
Determining the oxidised cellulose content of bleached cotton. H. Kauffmann. Soc Dyers & Col J 40:128 Ap '24
Odorous constituents of the cotton plant; emanation of ammonia and trimethylamine from the living plant. F: B. Power and V: R. Chesnut. Am Chem Soc J 47:1751-74 Je '25
Properties of cotton wax in relation to the scouring process. R. G. Fargher. Soc Dyers & Col J 40:283-5 S '24
Yield of β-glucosane obtained from low-pressure distillation of cellulose. H. J: P. Venn. diag Textile Inst J 15:T414-18 Ag '24

Bibliography

Selected list of books on cotton and cotton manufacture. 8p Free public library, New Bedford, Mass. '25

Costs

Cost of growing cotton in 1923. Comm & Fin 13:1799 S 17 '24
Does cotton farming pay? A. B. Bryan. Manuf Rec 87:83-5 Mr 12 '25
"Lame mule" cotton farming is doomed. E. J. Bodman. Comm & Fin 13:450-1 F 27 '24

Diseases and pests

Concerning grasshoppers and cotton in Argentina. Nation's Business 13:72+ O '25
Investigation of a sample of diseased seed-cotton sent from Nyasaland. R. W. Marsh. il Textile Inst J 16:T315-22 O '25

Moisture content

Application of an electrical method to the study of moisture absorption in cotton and its bearing on electrification in cotton. F. P. Slater. Textile Inst J 16:P53-60 Mr '25
Chats with the textile chemist. J. M. Matthews. Textile World 68:2634+ O 31 '25
Equilibrium moisture of cotton. T. Fuwa and A. P. Godbout. Textile World 64:3023+ N 17 '23
Facts and theories concerning regain propositions in textile materials; answering Dr Shorter. W: D. Hartshorne. Am Dyestuff Rep 13:37-42 Ja 28 '24
Influence of humidity on the elastic properties of cotton. F: T: Peirce. bibliog diag Textile Inst J 15:T501-18 N '24
Moisture condition of cotton fabrics. E. Cagliostro. Color Tr J 14:99-102 Mr '24
Moisture relations of cotton. A. R. Urquhart and A. M. Williams. bibliog Textile Inst J 15:T138-48, T433-42, T559-72; 16:T155-66 Mr, S, D '24, Je '25

Prices

Cotton: market conditions and prices. See weekly numbers of Economic world and Annalist
Cotton—1924. Annalist 25:41 Ja 5 '25
Rates small factor in cotton prices. Ry R 77: 699 N 7 '25
Some little-known factors in the price of cotton. H. A. Haring. Annalist 23:526+ My 5 '24
Textile world analyst. L: H. Haney. Textile World 68:113-14 Jl 4 '25
Week's price range of cotton. Published in weekly numbers of Annalist

See also Cotton fabrics—Prices

Standards

Conference at Washington of world cotton representatives to prepare universal cotton standards—approval by Liverpool cotton association. Comm & Fin Chr 120:1287-8 Mr 14 '25; Textile World 67:1817+ Mr 14 '25
Secretary of agriculture Gore names committee to reclassify cotton held by N.Y. cotton exchange. Comm & Fin Chr 120: 1153-4 Mr 7 '25

Statistics

Cotton and its relation to world affairs. Manuf Rec 86:336-8 pt 2 D 11 '24
Cotton gets a fairly good start. Bradstreet's 53:370 Je 6 '25
Federal crop reporting board defends issuance of semi-monthly cotton reports. Comm & Fin Chr 119:2464-5 N 29 '24
Forecasting the acreage of cotton. B. B. Smith. Am Statis Assn J 20:31-47 Mr '25
Government forecasts 14,339,000-bale cotton crop. Manuf Rec 88:82 Jl 9 '25
History of the 1924 cotton crop. J: A. Todd. Textile World 67:855 F 7 '25
International cotton statistics. Textile World 67:2096 Mr 28 '25
President Wannamaker of American cotton association proposes to eliminate United States Department of agriculture from cotton reports. Manuf Rec 86:70 O 23 '24
Second largest cotton crop indicated. Bradstreet's 53:705 O 31 '25
September first cotton report. J: A. Todd. Textile World 66:1681 S 27 '24
Supply of cotton. Comm M 6:12-15 Jl '24
United States crop board defends cotton estimates. Comm & Fin Chr 121:1634 O 3 '25
World cotton outlook. Comm & Fin Chr 121: 1738-40 O 10 '25
World cotton production for 1924. Manuf Rec 87:113 My 7 '25
World's production of cotton. J. S. M. Ward. Textile Inst J 16:P3-4 Ja '25
World's prosperity capacity for cotton. A. H. Garside. Comm & Fin 14:1803+ S 16 '25

Testing

Comparative wearing qualities of pima and ordinary cotton used in mail bags. F. R. McGowan, C: W. Schoffstall and A. A. Mercier. il diags U S Bur Stand Tech Pa 277:73-83 '25
Distribution of stresses in cotton products. H. P. Gurney. Textile Inst J 16:T269-89 S '25
Influence of humidity on the elastic properties of cotton. F: T. Peirce. bibliog diag Textile Inst J 15:T501-18 N '24
Measurement of the viscosity of solutions of cottons in aqueous cuprammonium hydroxide and its significance as a test of textile quality. F: D. Farrow and S. M. Neale. bibliog diags plan Textile Inst J 15:T157-72 Ap '24
Stress/strain relationships of cotton hairs; the time factor. G: E: Collins. bibliog diag Textile Inst J 15:T519-28 N '24

See also Cotton fabrics—Testing; Cotton yarn—Testing

Transportation

How cotton shippers and railroads can cooperate. R. C. Andrews. Comm & Fin 14: 1797+ S 16 '25
Railroads and the industry. G. Fort. Textile World 65:2993-4 My 3 '24

Wetting

Wetting of cotton; wetting of raw cotton by hot starch pastes. F: D. Farrow and S. M. Neale. bibliog Textile Inst J 16:T209-22 Jl '25

Africa

Great Britain's campaign to promote cotton growing and railroad building in British Africa. Econ W n s 28:298-9 Ag 30 '24

Argentina

Argentina's progress as a cotton-producing country. M. T. Meadows. Econ W n s 28:656-7 N 8 '24
Progress of cotton growing in Argentina. G: S. Brady. Econ W n s 28:44-5 Jl 12 '24

Australia

Cotton growing in Australia. L. G. Kilby. il Comm & Fin 13:1318 Jl 9 '24
Cotton growing in Australia. C. Vaughan. Textile Inst J 15:P82-3 Mr '24
Quality of ratooned Queensland cotton. F: Summers. Textile Inst J 15:T543-6 D '24

Brazil

Brazil as cotton source. Textile World 64: 3823 D 29 '23

COTTON—Brazil—*Continued*
Cotton possibilities of Brazil. J. E: Hoehn. il Comm & Fin 13:1779+ S 17 '24
Outlook for cotton production in Brazil. Econ W n s 30:211 Ag 8 '25

California
Cotton forges ahead in California. J. D. Day. Comm & Fin 13:113 Ja 9 '24

China
First official report of a Chinese cotton crop. Sih-Zung Yang. Textile World 67:873 F 7 '25
Official figures of the Chinese cotton crop of 1923. Econ W n s 28:859 D 13 '24
See also Cotton trade—China

Egypt
Cotton factor in the Egyptian dispute. S. Bell. Comm & Fin 13:2335 D 3 '24

Georgia
Readjusting cotton in Georgia—a great change for the better. C: A. Whittle. il Manuf Rec 87:82-4 Mr 26 '25

Great Britain
British Empire's cotton growing possibilities. Comm & Fin 13:1771+ S 17 '24
Part played by our Empire in the production of raw cotton. W. H. Himbury. Textile Inst J 15:P170-81 Je '24; Abstract. Soc Dyers & Col J 40:242 Jl '24
Survey of the textile fibres of plant origin produced within the Empire. J. S. M. Ward. Textile Inst J 16:P2-11 Ja '25
See also Cotton trade—Great Britain; *also* Empire cotton growing corporation

India
Cotton cultivation in India (Central Provinces and Berar); abstract. Textile Inst J 16: A193-4 Je '25
See also Cotton trade—India

Mexico
Cotton growing in the Laguna district, Mexico. B. F. Yost. Econ W n s 29:910-11 Je 27 '25

Paraguay
Outlook for cotton production in Paraguay. Econ W n s 29:679 My 9 '25

Peru
Development of "tanguis" cotton in Peru. Econ W n s 27:859 Je 14 '24
Peruvian cotton. M. A. Raper. Comm & Fin 13:1785+ S 17 '24
Possibilities of cotton production in Peru. Econ W n s 27:225 F 16 '24

Russia
Cotton cultivation in the Russian empire; abstract. S. C. Condrasheff. Textile Inst J 16:A111 Ap '25
Cotton growing and cotton manufacture in soviet Russia. L. J. Lewery. Econ W n s 27:832-5 Je 14 '24
See also Cotton trade—Russia

South America
Development of cotton cultivation in South America. Econ W n s 28:443 S 27 '24

Sudan
Possibilities of cotton cultivation in the Anglo-Egyptian Sudan. Econ W n s 28:118-19 Jl 26 '24

Texas
Cotton growing in west Texas. V: H. Schoffelmayer. Comm & Fin 13:583 Mr 19 '24
Cotton in the El Paso territory. A: Wolf. Comm & Fin 13:111+ Ja 9 '24
Texas and the big drouth. V: H. Schoffelmayer. Comm & Fin 14:1793+ S 16 '25
Texas contest winner grows 10 bales on 5 acres. V: H. Schoffelmayer. Comm & Fin 14:99+ Ja 14 '25
Texas cotton looks good. O. C. McQuage. Textile World 66:212 Jl 12 '24
Texas cotton situation. O. C. McQuage. Textile World 67:1429 F 21 '25
Texas enterprise. Nat City Bank p 8-9 Jl '25
West Texas as a great cotton empire. V: H. Schoffelmayer. Comm & Fin 14:786 Ap 22 '25

Turkey
Projected development of cotton production in Turkey. Econ W n s 30:607 O 24 '25

United States
Analysis of cotton crop report. J: A. Todd. Textile World 66:3105-6 N 29 '24
Bureau cotton reports up to Oct. 8. J: A. Todd. Textile World 66:2318+ O 25 '24
Bureau reports and crop prospect. J: A. Todd. Textile World 66:755-6 Ag 9 '24
Calls government cotton report disappointing. J: A. Todd. Textile World 66:345 Jl 19 '24
Chances of the American crop. J: A. Todd. Textile World 65:3291-2+ My 17 '24
Chemists and cotton. L. Johnson. Chem Age 32:97 F '24
Cotton crop. Bradstreet's 52:621 S 27 '24
Cotton crop on August 1. Bradstreet's 53: 530-1 Ag 15 '25
Cotton growing extending northward. Comm & Fin 13:411 F 20 '24
Cotton of better grade and staple may be grown in the South. J: M. Parker. Textile World 67:2707 Ap 18 '25
Cotton price, not mill profits, must be reduced through better agricultural methods. L: Bader. Textile World 68:1329-30 S 5 '25
Crop reports of Nov. 21 and Dec. 9. J: A. Todd. Textile World 66:3711 D 27 '24
Cross section of public opinion concerning the 1924-25 cotton crop. Comm & Fin 13: 717 Ap 9 '24
Inconclusive cotton report. J: A. Todd. Textile World 65:4071-2 Je 21 '24
Indications of cotton acreage in June 1924. Comm & Fin Chr 118:3011-19 Je 21 '24
Indications of cotton acreage in June 1925. Comm & Fin Chr 120:3117-26 Je 20 '25
1924 cotton crop estimate—12,483,527 bales; average guess of 1,169 readers. Comm & Fin 13:1754-5+ S 17 '24
Passing of king cotton, tyrant. T. H. Price. il Burroughs Clearing House 8:24-6+ Ja '24
Record cotton acreage in the United States for 1925. Manuf Rec 87:71 Je 25 '25
Record of the government crop estimates. I. V. Shannon. Comm & Fin 13:97+ Ja 9 '24
Secretary Hester's statistical survey of the American cotton crop of 1924-1925 and its distribution; abstracts. Econ W n s 30:256-8 Ag 22 '25; Bradstreet's 53:530 Ag 15 '25; Manuf Rec 88:73-4 Ag 13 '25; Textile World 68:900+ Ag 15 '25
Smaller cotton acreage impossible. J. H. Tignor. Textile World 67:1379 F 21 '25
Staple cotton production for 1924. G: L. Fossick. Textile World 67:61 Ja 3 '25
Textile world analyst. L: H. Haney. Textile World 68:687-9 Ag 1 '25
13,757,000 bales—composite crop estimate of 1842 readers. Comm & Fin 14:1771-91 S 16 '25
Turn of the cotton season. J: A. Todd. Textile World 67:1818+ Mr 14 '25
What will the 1924 acreage be? G: W. Fooshe. Comm & Fin 13:101+ Ja 9 '24
See also Cotton manufacture—United States; Cotton trade—United States

COTTON, Effect of acids on
Acid in cotton goods. C: F. Goldthwait. Am Dyestuff Rep 13:419-20 Je 30 '24
Action of acids on cotton. A. J. Hall. Am Dyestuff Rep 13:529-32 Ag 11 '24
Effect of treatment with sulphuric acid on the breaking load of cotton. P. D. Vincent. diags Textile Inst J 15:T281-90 My '24; Same. Color Tr J 15:27-30 Jl '24
Tendering of cotton fabric by acids. H. F. Coward, F: C: Wood and F. L. Barrett. diags Textile Inst J 14:T520-8 D '23

COTTON, Substitutes for

Bast fibres as substitutes for cotton. C: F. Goldthwait. il diag Textile World 67: 1825+, 2103+ Mr 14, 28 '25

Dwindling cotton supply; science may make artificial fiber. T. H. Price. Comm & Fin 13:2047-9 O 22 '24

COTTON baling

Standardization of American cotton tare. E. A. Beveridge. Comm & Fin 14:1799+ S 16 '25

Standardization of cotton baling methods proposed. Comm & Fin Chr 120:1154 Mr 7 '25

Standardize tare in cotton bale. Textile World 67:3406-7 My 23 '25

COTTON baling ties

Large uses of steel in small ways; cotton ties. il Iron Tr R 74:231+ Ja 17 '24

Steel for banding cotton bales. G: F. Tegan. il Iron Age 116:139-40 Jl 16 '25

COTTON belt railway. See St Louis Southwestern railway

COTTON boll weevils. See Boll weevils

COTTON bucking. See Bleaching—Cotton

COTTON carding

Individual motor drive for cards. C. T. Guildford. il Textile World 67:1686+ Mr 7 '25

Report of carding committee. Textile World 67:4133+ Je 27 '25

See also Carding machines

COTTON duck. See Duck (textile)

COTTON exchanges

Chicago Board of trade and cotton. F. L. Carey. Comm & Fin Chr 120:508-9 Ja 31 '25

Chicago trades in cotton. G. Garrison. Comm & Fin 13:2339+ D 3 '24

Cotton futures and dollar futures. E. L. Smith. Annalist 26:443 O 9 '25

Cotton futures market in Chicago. S. P. Arnot. Comm & Fin 14:387 F 25 '25

Cotton trading starts on Chicago Board of trade. Comm & Fin Chr 119:2582 D 6 '24

Dallas as a spot cotton market. O. C. McQuage, il Comm & Fin 13:1801+ S 17 '24

Functions of New Orleans cotton exchange. H: Plauche. Textile World 67:2669-70 Ap 18 '25

Project for cotton futures trading on the Chicago board of trade. A. R: Marsh. Econ W n s 28:363-4 S 13 '24

What the new Chicago cotton exchange means. W: R. Meadows. Textile World 67: 1493-5+ F 28 '25

See also Cotton futures act; New Orleans cotton exchange; New York cotton exchange

COTTON fabrics

Acid in cotton goods. C: F. Goldthwait. Am Dyestuff Rep 13:419-20 Je 30 '24

Action of light on cotton. P. W. Cunliffe. bibliog Textile Inst J 14:T314-18 S '23; Same, without bibliog. Soc Dyers & Col J 39:371-4 D '23

Action of molds and bacteria on cotton. A. J. Hall. Color Tr J 15:88-91 S '24

Analogies between former and recent preliminary chemical treatments of cotton fabrics. G. Tagliani. Soc Dyers & Col J 39:340-2 N '23

Chemical properties of cotton; action of light. J. M. Matthews. Color Tr J 13:23-6 Jl '23

Chemistry and the cotton industry; research on oxidation and light problems. I. M. Hadfield. Chemicals (Dyestuffs sec) 17:76 S 14 '25

Cotton cloth designer. J: Reynolds. Textile World 68:913 Ag 15 '25

Cotton goods and the imported myth. L: R. Keeffe. il Textile World 67:867-8+ F 7 '25

Cotton specks in woven fabrics. L: J. Matos. Color Tr J 15:117-18 O '24

Cotton work shirt materials. J. W. Cox, jr. Textile World 65:1871+ Mr 15 '24

Destruction of cotton by bacteria and fungi. A. J. Hall. il Textile Col 46:514-16 Ag '24

Effect of the action of micro-organisms on fibres and fabrics. A. C. Thaysen. Soc Dyers & Col J 40:101-4; Discussion. 104 Ap '24

Fifty-ton refrigerating plant for processing cotton. F. L. Fairbanks. diags Refrig W 60:17-18 Jl '25; Same. Refrig Eng 12:5-6+; Discussion. 9 Jl '25

Gas singeing of cotton pile fabrics. J: T. Travis. Am Dyestuff Rep 14:3-4 Ja 12 '25

Handling cottons with rayon. R. W. Arrington. Textile World 68:2311+ O 17 '25; Same. Am Dyestuff Rep 14:726-8 N 2 '25

Investigation into the changes which occur in cotton fabrics during calendering and beetling. J. Huebner and V. Malwin. il Soc Dyers & Col J 40:5-9 Ja '24; Abstract. Color Tr J 14:65 F '24; Discussion. Soc Dyers & Col J 40:9-10 Ja '24

Lustre of yarns and fabrics. A. Adderley and A. E. Oxley. bibliog diags 4 pls Textile Inst J 16:T167-84 Je '25

Mildew in cotton goods. Textile World 67: 3291 My 16 '25

Mildew in cotton goods. T: B. Bright, L. E. Morris and F: Summers. il Textile Inst J 15:T547-58, pl 1-4 D '24; Same cond. Textile World 67:4145+ Je 27 '25

New effects to cotton fabrics. A. Schoenholzer. Chemicals (Dyestuffs sec) 17:77+ S 14 '25

New means of improving the cotton fibre. E. Knecht. Soc Dyers & Col J 40:359 N '24

Occurrence of mildew in black-bordered dhooties. D. Armstead and S. C. Harland. il Textile Inst J 14:T475-81, pl 1-2 D '23

Production of transparent effects in cotton fabrics. R. Zimmermann. Chemicals (Dyestuffs sec) 17:76-7 S 14 '25

Properties of bleached cotton. S. H. Higgins. Textile Col 46:562-5 S '24

Rayon boon to cotton goods manufacturer. Textile World 68:1771-2 sec 2 S 26 '25

Singeing of cotton fabrics. J: T. Travis. il Am Dyestuff Rep 13:510-12+ Ag 11 '24

Study of cotton goods specialties. C: H. Clark. Textile World 66:2833+ N 15 '24

Studying the styles. D. E. Walsh. Textile World 66:2831+ N 15 '24

Tendering of cotton fabric by acids. H. F. Coward, F: C: Wood and F. L. Barrett. diags Textile Inst J 14:T520-8 D '23

Yellowing and tendering of cotton. W: R. Atkinson. Textile Col 45:425-9, 508-10, 572-5, 715-19; 46:158-60, 226-9, 374 Jl-S, N '23, Mr-Ap, Je '24

See also Braid; Calico printing; Cotton finishing; Duck (textile); Dyes and dyeing —Cotton; Fabrikoid; Oilcloth; Tire fabrics

Prices

International cotton cloth prices in 1924. Econ W n s 29:247 F 14 '25

International gray cloth prices. Textile World 65:1992 Mr 22 '24

Textile world analyst. L: H. Haney. Textile World 68:115 Jl 4 '25

Specifications

Report of committee D-13. Textile World 68:64+ Jl 4 '25

United States government master specification for bleached cotton sheets (medium and high count sheeting). U S Bur Stand Circ 274:1-4 '25

United States government master specification for bleached wide cotton sheeting. U S Bur Stand Circ 273:1-4 '25

Stains

Faults in the bleaching, mercerizing and dyeing of cotton goods. H. R. Band. Chemicals (Dyestuffs sec) 17:121-2 N 9 '25

Iron stains on sized cotton cloth. Textile Col 47:722 N '25

Pink shade on bleached duck. Textile World 66:1699+ S 27 '24

Testing

Improving alkali test for cotton-wool mixes. A. F. Hedrick. Textile World 67:3725+ Je 6 '25

COTTON fabrics—Testing—*Continued*
Moisture condition of cotton fabrics. E. Cagliostro. Color Tr J 14:99-102 Mr '24

See also Duck (textile)—Testing

COTTON fabrics, Varnished
Directions for the study of varnished cotton cloth (excluding adhesive tape). diags Inst E E J 62:173-7 F '24

COTTON fibers
Fiber balance. T: Barratt. diag Color Tr J 15:177-8 D '24
Influence of humidity on the elastic properties of cotton. F: T: Peirce. bibliog diag Textile Inst J 15:T501-18 N '24
Plasticity; its importance as a property of cotton. Textile World 65:3639+ My 31 '24
Recent developments in the chemistry of the cotton fibre. G. Tagliani. Soc Dyers & Col J 41:165-8 My '25; Same. Am Dyestuff Rep 14:593-6 S 7 '25; Same abr. Textile World 67:3547+ My 30 '25; Abstracts. Textile Inst J 16:P144-5 My '25; Chemicals (Dyestuffs sec) 17:23+ Jl 20 '25
Stress/strain relationships of cotton hairs; the time factor. G: E. Collins. bibliog diag Textile Inst J 15:T519-28 N '24
Studies on the swelling of cotton cellulose. G: E. Collins. Textile Inst J 16:T123-6 My '25
Studies on the swelling of cotton cellulose; cotton hairs in solutions of potassium hydroxide. G. E. Collins and A. M. Williams. diag Textile Inst J 15:T149-56 Ap '24
Studies on the swelling of cotton cellulose; cotton hairs in solutions of sodium hydroxide. G. E. Collins and A. M. Williams. diag Textile Inst J 14:T287-95 S '23; Same. Color Tr J 13:182-5 N '23; Same. Soc Dyers & Col J 39:368-71 D '23
Study of convolutions in the cotton hair. G. G. Clegg and S. C. Harland. bibliog Textile Inst J 15:T14-26 Ja '24
Study of cotton neps. G: Butterworth. il Textile World 67:3867+ Je 13 '25
Swelling of raw cotton hairs during mercerisation without tension. M. A. Calvert and F: Summers. il Textile Inst J 16:T233-68 [bibliog. p. 268] Ag '25
Vegetable fibrous materials. J. Huebner. Soc Dyers & Col J 41:63-5 F '25; Same. Am Dyestuff Rep 14:183-5 Mr 23 '25
Yellowing and tendering of cotton. W: R. Atkinson. Textile Col 45:425-9, 508-10, 572-5, 715-19, 46:158-60, 226-9, 374 Jl-S, N '23, Mr-Ap, Je '24

See also Mercerizing

COTTON finishing
Chemistry of cotton cloth finishing. J: F. Warner. Am Dyestuff Rep 13:281-3 My 5 '24
Cotton bleaching and finishing. S. H. Higgins. Soc Dyers & Col J 40:413-18 D '24
Cotton finishing and materials. J: M. Palmer. Am Dyestuff Rep 14:290-1; Discussion. 291-2 My 4 '25
Cotton goods with silk effect. B. Teufer. Textile World 66:1015+ Ag 23 '24
Desizing and cleansing fabrics; patent. Chemicals (Dyestuffs sec) 16:201+ Je 22 '25
Finishing cotton goods where they are made. J: W. Arrington. Comm & Fin 14:860 sec 2 Ap 29 '25
Finishing sueded cotton fabrics. R. Presgrave. diag Textile World 67:2109+, 2311+ Mr 28-Ap 4 '25
Great art of finishing colored cotton goods. H. D. Martin. Textile Col 46:769-70 D '24
How cotton cloth defects annoy the finisher. H. L. Whiteley. il Textile World 67:1505+ F 28 '25
Investigation into the changes which occur in cotton fabrics during calendering and beetling. J. Huebner and V. Malwin. il Soc Dyers & Col J 40:5-9; Discussion. 9-10 Ja '24
Kiers: their relation to cotton finishing. R. C. Jefferson. Am Dyestuff Rep 13:787-9 D 1 '24
Lustre, glaze and brightness in textiles. J: R. Watkins. Textile Col 46:698-700 N '24
Mathematics of the finishing department. H. D. Martin. Textile Col 47:40-1 Ja '25
New effects to cotton fabrics. A. Schoenholzer. Chemicals (Dyestuffs sec) 17:77+ S 14 '25
Production of transparent effects in cotton fabrics. R. Zimmermann. Chemicals (Dyestuffs sec) 17:76-7 S 14 '25
Recent processes of altering the character of cotton. Schwarz. Chemicals (Dyestuffs sec) 17:73-4 S 14 '25
Sections of the textile industry and coordination; the standpoint of the finisher. W. W. Lishman. Textile Inst J 15:P33-7; Discussion. P37-8 F '24
Soaps and softeners. W. W. Chase. diags Textile Col 46:712-14 N '24
Textile finishing plants; Piedmont section of the Carolinas. R. G. Macy. il Management & Adm 8:167-71 Ag '24
Treatment of mixed fabrics containing cotton. Am Dyestuff Rep 14:277 Ap 20 '25
Water softening and purification in cotton processing. C. C. Adams. Am Dyestuff Rep 13:718-20 N 3 '24

See also Cotton sizing; Mercerizing

COTTON futures act
Delivery of contract cotton from interior points. B. J. Williams. Comm & Fin 13:1793 S 17 '24
Federal trade commission and the cotton exchanges. A. R. Marsh. Econ W n s 27:615-16 My 3 '24
Federal trade commission's findings on cotton futures. Comm & Fin 13:1791 S 17 '24
Federal trade commission's inquiry into cotton industry—latter opposed to change in future trading law. Comm & Fin Chr 117: 2174-5 N 17 '23
Futures contract. A. B. Muir. Textile Inst J 15:P226-34 Jl '24
Futures contract changes opposed at conference. Textile World 64:2849-50+ N 10 '23
Futures recommendations. B. P. Parry. Textile World 66:2819+ N 15 '24
Regulations under Cotton futures act amended reducing transfer unit of cotton from 100 to 25 bales. Comm & Fin Chr 120:3146-7 Je 20 '25

COTTON gins
Grounding cotton gins to prevent fires. H. E. Roethe. Safety Eng 46:293 D '23

Manufacture
Completes new southern plant at Birmingham, Ala. il plan Iron Tr R 77:744-6 S 24 '25; Same. Foundry 53:637-9 Ag 15 '25
$1,500,000 cotton gin machinery plant at Birmingham. il Manuf Rec 87:80-1 Je 11 '25

COTTON linters
Purification of cotton linters. W. W. Chase. diags plan Textile World 68:1479+ S 12 '25

COTTON machinery
C.O.B. cotton cleaning machine. il diag Textile World 67:327 Ja 17 '25
Cotton spinner's problems solved. S. E. Smith. diags Textile World 65:3953+; 66:221+, 1425, 2019+, 2841+ Je 14, Jl 12, S 13, O 11, N 15 '24
Effect of the opening processes upon the staple of cotton. G: A. R. Foster. bibliog Textile Inst J 15:T363-70 Jl '24
New type horizontal cleaner. J. H. Windle. il Textile World 66:887 Ag 16 '24
Processing of short foreign cottons. J. Winterbottom. Textile World 65:768-9, 1867+, 2653+, 3009+, 3951+; 66:223+, 875+ F 2, Mr 15, Ap 19, My 3, Je 14, Jl 12, Ag 16 '24
Saco-Lowell horizontal cleaner. il Textile World 66:1889 O 4 '24
Standardization of textile mill lubrication. A. F. Brewer. Textile World 67:3139+ My 9 '25

See also Carding machines; Cotton gins; Cotton picking machinery

Exhibitions
Machinery of the cotton mill at the British Empire exhibition. il Engineering 118:11-13, 89-91, 247-51, pl 6, 9-12, 23-4 Jl 4, 18, Ag 22 '24; Elec R (Lond) 95:220-1 Ag 8 '24; Electrician 93:176-7 Ag 15 '24; Engineer 138:202-8, 212 Ag 22 '24

COTTON manufacture
Co-operation in the cotton industry emphasized at annual meeting of American cotton manufacturers. Manuf Rec 87:70-5 Ap 16 '25
Cotton industry's debt to American inventors; reviewed at Providence meeting of Southern New England textile club. Textile World 67:1659-62 Mr 7 '25
Effect of the opening processes upon the staple of cotton. G: A. R. Foster. bibliog Textile Inst J 15:T363-70 Jl '24
Flow chart of cotton mill operations, showing where humidity and temperature control are needed. Textile World 67:2353 Ap 4 '25
Humidifying problems in cotton mills. A. H. Bahnson. Comm & Fin 14:858-9 sec 2 Ap 29 '25
Making fine goods and making money. J. R. MacColl. Comm & Fin 14:857 sec 2 Ap 29 '25
President's address at 25th annual convention of Cotton manufacturers' association of Georgia. G: S. Harris. Textile World 67: 3280+ My 16 '25
Processing of cotton. S. V. De Foreest. Chemicals (Dyestuffs sec) 17:99-100 O 12 '25
Processing of short foreign cottons. J. Winterbottom. Textile World 65:768-9, 1867+, 2653+, 3009+, 3951+; 66:223+, 875+ F 2, Mr 15, Ap 19, My 3, Je 14, Jl 12, Ag 16 '24
Some important details of cotton manufacture. W. Wilkinson. Textile Inst J 15:P5-10; Discussion. P10-12 Ja '24
Spraying oil on raw cotton. H. D. Martin. il Textile World 67:2717+ Ap 18 '25
Study of cotton goods specialties. C: H. Clark. Textile World 66:2833+ N 15 '24

See also Cotton carding; Cotton finishing; Cotton machinery; Cotton mills; Cotton sizing; Cotton spinning; Cotton waste; Cotton weaving; Cotton yarn

Japan
Growth in cotton manufacturing in Japan. Manuf Rec 88:72 O 29 '25

New England
Founding of industrial centers. H. C. Meserve, Textile World 65:2979+ My 3 '24
What can New England do about its textile problem. K. Moller. Textile World 65:219-20 Ja 12 '24
Yankee thrift and southern progress. R: W. Edmonds. Manuf Rec 87:87-9 F 5; 75-7 F 12; 77-8 F 19; 75-6 F 26 '25

Southern states
Southern spindles—a review. D. G. Woolf. Textile World 67:2095-6 Mr 28 '25
Yankee thrift and southern progress. R: W. Edmonds. Manuf Rec 87:75-6 F 26 '25

Texas
Textile future of Texas. J. P. Burrus. Textile World 65:4073+ Je 21 '24

United States
Community and the industry. S. H. Thompson. Textile World 65:2987+ My 3 '24
Industry part of national economy. M. W. Alexander. Textile World 65:2978-9 My 3 '24

COTTON manufacturers' association, American. See American cotton manufacturers' association

COTTON manufacturers' association of Georgia
Annual meeting, 25th, Atlanta, May 11-12. Textile World 67:3290+, 3409 My 16-23 '25

COTTON manufacturers' association of North Carolina
Annual convention, 19th, Asheville, N.C., July 3-4. Textile World 68:207-10 Jl 11 '25
Carolina manufacturers hold joint meeting, Blowing Rock, N.C., June 27-28. Textile World 66:69-72+ Jl 5 '24

COTTON manufacturers' association of South Carolina
Annual meeting, Spartanburg, S.C., Nov. 6. Textile World 64:2855-6 N 10 '23
Carolina manufacturers hold joint meeting, Blowing Rock, N.C., June 27-28. Textile World 66:69-72+ Jl 5 '24

COTTON manufacturers' institute (proposed)
Necessity of cooperation in cotton manufacturing. L. Rodman. Textile World 67:2671-2 Ap 18 '25

COTTON mills
Construction and costs of southern cotton mills and equipment. R. G. Macy. il map Management & Adm 8:47-52 Jl '24
Cotton industry in the South. J. R. Killian. Textile World 65:2476+ Ap 12 '24
Excelsior mills, Union, (S.C.) achieve further diversification; weaving plant for production of fine sheetings. D. G. Woolf. il Textile World 67:3987-8 Je 20 '25
Extension to textile mill at Tallassee, Ala. il diag Eng N 94:202-3 Ja 29 '25
Farr alpaca cotton yarn mill completed. il diag plans Textile World 65:1021+ F 2 '24
$5,000,000 plant of Pacific mills under construction at Lyman, South Carolina. S. B. Lincoln. il Manuf Rec 85:114-16 Mr 6 '24; Same cond. Textile World 64:2873+ N 10 '23
Humidity in cotton mills. H. Kershaw. Textile Inst J 16:P163-4 My '25
Los Angeles cotton mills, inc. M. H. Merrill. il plan Textile World 65:1185-6 F 9 '24
Meeting the industrial problem. W. M. McLaurine. il Textile World 65:1417+ F 23 '24
Montreal cottons limited installs new and up-to-date humidifying system. il Textile World 68:217 Jl 11 '25
New no. 3 mill of Republic cotton mills. il Textile World 65:1323+ F 16 '24
New Stark mills, Hogansville, Ga. S. B. Lincoln. il plan Textile World 67:2348+ Ap 4 '25
Self-contained community at Cliffside, N.C. il Textile World 65:3945+ Je 14 '24
South continues to expand and diversify despite depression of 1924. D. G. Woolf. Textile World 67:850-1 F 7 '25
Standard-Coosa-Thatcher co. expands further. D. G. Woolf. il Textile World 68:899+ Ag 15 '25
Textile complex. M. W. Heiss. Textile World 67:4175+ Je 27 '25
Trip through group of Polish textile mills. G. L. Carden. il Textile World 66:467-8 Jl 26 '24
Utica steam & Mohawk Valley mills. il Textile World 65:1611+ Mr 1 '24
Why the Borden company of New England built a southern mill. R: W. Edmonds. il Manuf Rec 88:62-4 O 22 '25

See also Cotton manufacture; Cotton waste

Costs
Cotton mill costs in 1850 and today. W: S. Pepperell. Textile World 67:2293-4 Ap 4 '25
Power costs in cotton mills. Elec W 83:621-3 Mr 29 '24; Abstract (Die betriebskosten in baumwollspinnereien und webereien der Vereinigten Staaten). Elektrotech Zeit 46: 856-8 Je 4 '25

Electric equipment
Electric drive in the cotton industry. F. B. Holt. il diags Electrician 94:232-4 F 27 '25
Electric driving of large cotton spinning mills. il Elec R (Lond) 96:459-61 Mr 20 '25
Selecting motors for cotton mills. W: S. Maddocks. il Elec W 83:272-7 F 9 '24

Employees
Company houses in Massachusetts. Textile World 66:469 Jl 26 '24
Cotton mill employes of the South. W. H. Harris. il Manuf Rec 86:189-94 pt 2 D 11 '24
89,000 Georgia child workers dwindle to 275! J. H. Reed. Textile World 66:1541 S 20 '24
Making piece rates on spoolers. Textile World 65:4089+ Je 21 '24
Mass. cotton mill men argue for and labor leaders against longer working week. Textile World 65:1303-4 F 16 '24

COTTON mills—Employees—*Continued*
Mill parks new feature in Southern communities. D. G. Woolf. il Textile World 66:2011-12 O 11 '24
Physical examination for employes. W: M. McLaurine. Textile World 68:488 Jl 25 '25
Shortage of labour in the textile industry. Textile Inst J 15:P120-9 My '24
Striking facts about Southern cotton mills and cotton mill employes. R: Spillane. Manuf Rec 86:195-6 pt 2 D 11 '24
Textile mill workers and the depression in the textile industry. Econ W n s 27:802-3 Je 7 '24
Trend of employment of men and women in specified industries. E. Stewart. Monthly Labor R 20:739-46 Ap '25
True view of Southern textile mill conditions. D: H. Clark. Manuf Rec 86:73-4 N 27 '24
Wages and hours of labor in cotton-goods manufacturing, 1924. U S Bur Labor Statistics Bul 371:1-43 '25
Wages and hours of labor in the cotton manufacturing industry in the United States, 1910 to 1924. Monthly Labor R 18:1263-6 Je '24
Wages in Mexican cotton mills. Monthly Labor R 20:549 Mr '25
Wages in the cotton industry, 1914-1920. J. W. F. Rowe. Econ J 34:200-10 Je '24
Yankee thrift and southern progress. R: W. Edmonds. Manuf Rec 87:75-6 F 26 '25

Equipment

Conveyor system that revolutionized a cotton mill. R. T. Kent. il diag Management & Adm 7: 411-16 Ap '24
See also Cotton machinery

Heating and ventilation

Effect of atmospheric conditions on health and efficiency (with special reference to the cotton industry). S. Wyatt. il J Ind Hygiene 7:317-44 [bibliog. p. 344] Jl '25
Report on the humidification of Indian cotton mills. T. Maloney. Textile Inst J 15:P26-8 Ja '24

Management

Balancing production. Textile World 64:3585+ D 15 '23
Conveyors require good management. R. T. Kent. Management & Adm 7:539-43 My '24
Cotton mill management. W: S. Taggart. 268p Macmillan '23
Labor saving reports for a colored goods textile plant. H. D. Martin. Textile Col 46:572-6 S '24
Motion pictures in cotton mill work would bring improvement in operatives. D: H. Clark. Manuf Rec 87:85-6 My 14 '25
Relation of mechanical engineering to management in the textile industry. E. H. McKitterick. Mech Eng 46:343-4+ Je '24; Excerpts. Textile World 65:87+ Ja 5 '24
Saving automatic box loom waste. Textile World 66:3456 D 13 '24
Significant savings in mill operations. N. T. Thomas. Textile World 66:2843+ N 15 '24; Same. Taylor Soc Bul 9:172-6 Ag '24
Studying the job. J. M. Barnes. Textile World 66:2847+ N 15 '24
Studying the job. W: O. Lichtner. Textile World 66:2825+ N 15 '24
Studying the job; symposium. Textile World 66:2807+ N 15 '24

Power

Harnessing Arkansas water-power. R. E. Livingston. il Sci Am 130:174 Mr '24
Industrial developments in China. H. A. Fleet. il diag plan Elec R (Lond) 94:300-1 F 22 '24
Power costs in cotton mills. Elec W 83:621-3 Mr 29 '24; Abstract (Die betriebskosten in baumwollspinnereien und webereien der Vereinigten Staaten). Elektrotech Zeit 46: 856-8 Je 4 '25
Process steam as a power plant product. M. Sampson. il Textile World 65:81-2+ Ja 5 '24
Steam-loss prevention in finishing. H. M. Burke. il diag Textile World 64:3827+; 65: 487+ D 29 '23, Ja 26 '24

Safety devices and measures

Minimizing accidents in cotton mills. H. H. Hughes. il Nat Safety N 9:23-5 Je '24

COTTON neps. See Cotton fibers

COTTON oiling
Spraying oil on raw cotton. H. D. Martin. il Textile World 67:2717+ Ap 18 '25

COTTON picking machinery
Cotton spinners' problems solved. S. E. Smith. diags Textile World 67:325 Ja 17 '25
Technology of cotton machinery; calculations on pickers. A. A. Mercier. charts diags U S Bur Stand Tech Pa 282:183-212 '25

COTTON printing. See Calico printing

COTTON research
British cotton industry research association —fifth annual report. Textile Inst J 15:P553-62 O '24
Chemistry and the cotton industry. I. M. Hadfield. Chem Age (Lond) 13:88 Jl 25 '25
Cotton research. J. McDowell. Textile World 67:4173+ Je 27 '25
Cotton research board, Egypt; 3d annual report, 1922. Textile Inst J 15:P501-4 S '24
Fundamental research progress in Great Britain. il Textile World 66:625-6+ Ag 2 '24
Mercerizing: modern research and its results. C: F. Goldthwait. il diags Am Dyestuff Rep 13:667-70, 705-8 O 20-N 3 '24
Practical application of research work. E. D. Walen. Textile World 65:739-40 F 2 '24
Progress in British research. Textile World 65:1414 F 23 '24
Research in relation to the cotton industry. S. W. Crossley. Textile Inst J 15:P209-13 Jl '24
Resumé of recent work done in the chemical department of the Shirley institute; abstract with discussion. D. A. Clibbens. Soc Dyers & Col J 41:248-9 Jl '25
Studies on the reactions relating to carbohydrates and polysaccharides; the oxidation of cellulose. H. Hibbert and J: L. Parsons. Soc Chem Ind J 44:473-85 [bibliog. p. 485] O 9 '25
Work of Shirley institute. A. W. Crossley. Textile World 66:2148+ O 18 '24
See also Cotton manufacturers' institute (proposed)

COTTON scouring
Properties of cotton wax in relation to the scouring process. R. G. Fargher. Soc Dyers & Col J 40:283-5 S '24

COTTON seed. See Cottonseed

COTTON sizing
Chemistry at the size kettle. H. Seydel and A. H. Reiners. Am Dyestuff Rep 14:282-4+ My 4 '25; Same. Textile Col 47:298-301 My '25; Same. Textile World 67:2986+ My 2 '25
Colored and white warp sizing variations. H. D. Martin. Textile Col 46:715-17 N '24
Elasticity and tensile strength of starch. S. M. Neale. bibliog il diag Textile Inst J 15: T443-52 S '24
Molds in textiles. W. S. Richardson. Textile Col 47:226-8 Ap '25
Physical tests on sized yarns. A. E: Owen. diag Textile Inst J 14:T375-89 N '23
Sizing in relation to bleaching and finishing. F. T. Cooper. Color Tr J 14:98-9 Mr '24
Slashing. Am Dyestuff Rep 14:717-18+ N 2 '25
Study of sizing. Textile World 66:1695+ S 27 '24
Tape sizing and hot air drying. S. Taylor. Color Tr J 16:49-50 F '25
Textile mill mechanical department. diags Textile World 65:3165+ My 10 '24
Wetting of cotton; wetting of raw cotton by hot starch pastes. F: D. Farrow and S. M. Neale. bibliog Textile Inst J 16:T209-22 Jl '25

COTTON spinning
Advanced cotton spinning. T: Thornley. 3d ed., rev. & enl. 787p Van Nostrand '23
Cotton spinners' problems solved. S. E. Smith. diags Textile World 66:2019+, 2841+, 3454-6; 67:319-20+, 2991-2, 3863+; 68:223+, 909+, 1483+ O 11, N 15, D 13 '24, Ja 17, My 2, Je 13, Jl 11, Ag 15, S 12 '25
Cotton spinning calculations. T: Thornley. 5th ed., rev. & enl. 484p Van Nostrand '24
Discussion of spinning questions. Textile World 68:2473-4 O 24 '25
Effect of roller delivery motion on the regularity of mule yarns. F. Charnley. Textile Inst J 15:T273-80 My '24
La filature du cotton. R. Dubois. diags Soc Ing Civils Bul 77:204-34, pl 66 Ja '24
Four and six roll drafting. A. N. Sheldon. il Textile World 66:877+ Ag 16 '24
Influence of mule spinning on some properties of cotton yarns. W. English. Textile Inst J 16:T97-113, T114-22 Ap-My '25
Practical ring spinning. L. J. Mills. 413p Emmott & co., ltd., Manchester, London '22
Processing of short foreign cottons. J. Winterbottom. Textile World 65:768-9, 1867+, 2653+, 3009+, 3951+; 66:223+, 875+ F 2, Mr 15, Ap 19, My 3, Je 14, Jl 12, Ag 16 '24
Regularity of certain high and low draft yarns and the effect of varying weight on top middle roller. F. Charnley. bibliog diags Textile Inst J 15:T347-62 Jl '24
Report of spinning committee. Textile World 67:4171+ Je 27 '25
Ring spinning. J. T. Fielding. Textile Inst J 16:P109-10 Ap '25
Sections of the textile industry, and co-ordination; discussion from the standpoint of the spinner. J. W. Kershaw. Textile Inst J 14:P297-9 D '23

COTTON stalks
Cotton stalks as paper-making material. M. B. Shaw, G: W. Bicking and R. R. Rumsey. Paper Tr J 81:50-1 Jl 30 '25

COTTON ties. See Cotton baling ties

COTTON trade
Address. R. Amory. Textile World 65:2975-7 My 3 '24
American cotton and Asiatic markets. Comm M 6:14-15 D '24
American cotton textiles in world's market. E: T. Pickard. Textile World 65:778 F 2 '24
American vs. Bremen classification of cotton. Comm & Fin 14:861-2 sec 2 Ap 29 '25
Bureau of agricultural economics. L. S. Tenny. Textile World 67:2537+ Ap 11 '25
Business cycle and the cotton industry. L: Bader. Textile World 68:2615-17 O 31 '25
Can cotton goods marketing chain be shortened? L: Bader. Textile World 68:1021-2 Ag 22 '25
Commission house up-to-date. L: R. Keeffe. diags Textile World 65:2955-6+ My 3 '24
Competition cotton goods must meet. T. H. Price. Comm & Fin 13:1413 Jl 23 '24
Co-operative cotton marketing organizations. C. B. Howard. Comm & Fin 13:1795+ S 17 '24
Cooperative cotton selling. L. F. McKay. Textile World 65:1174 F 9 '24
Cotton. Comm & Fin 13:97-155 Ja 9 '24
Cotton and sugar. T. H. Price. Comm & Fin 14:1975 O 7 '25
Cotton and the cotton market. Published in weekly numbers of Commerce and finance
Cotton forecasting; a method of determining in November the advisability of holding the crop. Harvard Business R 2:225-32 Ja '24
Cotton grower's right to limit production. T. H. Price. Comm & Fin 13:267 Ja 30 '24
Cotton situation at the end of the season of 1924-1925. A. R. Marsh. Econ W n s 30: 45-6 Jl 11 '25
Cotton situation from a world economic standpoint. A. R. Marsh. Annalist 26:5 Jl 10 '25
Cotton trade. Economist 101:652-4 O 24 '25
Cotton trade prospects for 1925 for 16 countries. Textile World 67:60-1+ Ja 3 '25
Critical conditions in cotton. T. H. Price. Chem Age 32:35-6 Ja '24
Development of the organisation of Anglo-American trade, 1800-1850. N. S. Buck. 190p [bibliog. p. 178-85] Yale univ. press, New Haven '25
Distribution of cotton fabrics. T. H. Price. Textile World 68:2029-30 O 3 '25
Doing something for the textile industry. Comm & Fin 14:853-5 sec 2 Ap 29 '25
Economic situation of Europe as it affects the cotton trade of Lancashire. W. C. Lees. Textile Inst J 16:P90-5; Discussion. P95-6 Ap '25
Egyptian cotton's strong status. Textile World 64:3572 D 15 '23
Europe accustomed to 25 cent cotton. C. B. Howard. Comm & Fin 14:1805 S 16 '25
Exchange's views on trading. R: T. Harriss. Textile World 66:2821+ N 15 '24
Finding new outlets for cotton goods surplus. L: Bader. Textile World 68:1597-8 S 19 '25
How New Orleans handles spot cotton. il Comm & Fin 14:2128-9 O 28 '25
Is the grade and weight of C. I. F. cotton insurable? T. H. Price. Comm & Fin 14: 1237 Je 24 '25; Discussion. 14:1467 Jl 29 '25
Marketing cotton for export. E. L. Tutt and W: R. Meadows. U S Bur For & Dom Com Trade Information Bul 288:1-45 '24
More mill brands—better merchandising. J. Bramhall. Textile World 67:834-5 F 7 '25
New factors influence cotton. C. B. Howard. Textile World 67:1377-8 F 21 '25
New trends in international banking and commerce, with special reference to the cotton trade. J. H. Ardrey. Econ W n s 29:508-11 Ap 11 '25
Normal cotton reserves in prospect. A. H. Garside. Textile World 67:929 F 7 '25
Outlook for cotton. Moody's Inv Serv 17:46 F 5 '25
Outlook for cotton textile exports. J. Klein. Textile World 67:2531+ Ap 11 '25
Present position of the cotton manufacturing industry. Comm M 6:3-12 Ap '25; Same. Econ W n s 29:474-8 Ap 4 '25
Problem of distribution as properly solved by cooperation. W. M. Garrard. Textile World 67:2709+ Ap 18 '25
Raw material dominates cotton goods in 1923. Textile World 65:803+ F 2 '24
Retailer and the mills. L. Hahn. Textile World 66:2969-71; Discussion. 2971-2+ N 22 '24
Shifts in the world's cotton trade during and since the war. Econ W n s 29:679 My 9 '25
Situation in raw cotton. Comm M 6:14-15 Mr '25
Substitutes for domestic cotton. Textile World 64:3439-40+ D 8 '23
Survey of the world cotton outlook. Econ W n s 30:582-4 O 24 '25
Symposium on merchandising. J: E. Rousmaniere; L: E. Kirstein; F: H. Curtis. Textile World 68:2321+ O 17 '25
Uniform cotton mill rules in sight. Textile World 66:3447 D 13 '24
World cotton situation at the beginning of the new cotton year. Econ W n s 28:183-4 Ag 9 '24
World problems of wool and cotton. A. J. Sargent. Textile Inst J 16:P192-4 Je '25
World's cotton position. J: A. Todd. Comm & Fin Chr 121:907-8 Ag 22 '25

See also Cotton—Prices; Cotton exchanges; Cotton fabrics—Prices; Cotton futures act; Cotton yarn; *also* American cotton manufacturers' association; New Orleans cotton exchange; New York cotton exchange

Advertising
Make cotton fashionable! E. Dakin. Comm & Fin 13:962-3 My 14 '24
Publicity for cotton and its products. Comm & Fin 13:499 Mr 5 '24

Directories
Dockham's cotton merchants directory. Dockham pub. co., Boston '23

COTTON trade—*Continued*

Finance

Use of acceptances in financing American cotton. W: J. Carson. Econ W n s 27:798-800 Je 7 '24

Statistics

American and British cotton cloth exports in the first half of 1925. Econ W n s 30:475-6 O 3 '25

Bill calling for semi-monthly cotton reports passed by Congress. Comm & Fin Chr 118: 1472-4 Mr 29 '24

Carryover and consumption of American cotton. J: A. Todd. Textile World 65:2757-8 Ap 26 '24

Cotton. Survey of Cur Business 30:60-4 F '24 [continued quarterly]

Cotton facts versus cotton figures. Comm & Fin 13:501+, 539+, 669+ Mr 5-12, Ap 2 '24

Cotton in 1923. Economist 98:333-5, 360+ F 16 '24

Cotton: market conditions and prices. Published in weekly numbers of Annalist, Commerce and finance and Economic world

Cotton movement and crop of 1923-1924. Comm & Fin Chr 119:1020-36 Ag 30 '24

Cotton movement and crop of 1924-25. Comm & Fin Chr 121:1050-67 Ag 29 '25

Cotton situation; commerce department figures questioned. I. V. Shannon. Forbes 13: 637-8 Mr 1 '24

Cotton supply situation at the end of the current season. A. H. Garside. Econ W n s 29:549-50 Ap 18 '25

Discontinuance of semi-monthly cotton crop forecasts urged at meeting of American cotton manufacturers association. Comm & Fin Chr 120:1962 Ap 18 '25

Federal reserve bank of Boston offers to aid cotton textile industry in determining trend of orders booked—operation of Reserve bank reporting system. F: H. Curtiss. Comm & Fin Chr 121:2227-9 N 7 '25

Government cotton reports and forecasts. W. M. Persons and C. W. Doten. il Textile World 65:744-7 F 2 '24

Half yearly statistics of the International cotton federation. Textile Inst J 15:P108-11 Ap '24

International cotton statistics. Comm & Fin 13:809 Ap 23 '24

International cotton supply. J. H. Ardrey. Comm M 5:3-12 Ap '24; Same. Econ W n s 27:472-6 Ap 5 '24

International trade in cotton. L. A. Wheeler. map U S Bur For & Dom Com Trade Promotion Ser 13:1-100 '25

Menace of U.S. ten-million bale crops. J: A. Todd. Textile World 65:751-5 F 2 '24

Movement of the crop. Published in weekly numbers of Commercial and financial chronicle

Plan for cotton goods statistics. Textile World 68:348 Jl 18 '25

Price the dominant factor in raw cotton trade. Textile World 67:921+ F 7 '25

Pro and con of semi-monthly cotton reports. Textile World 67:861-5 F 7 '25

Proposal to increase cotton crop reports to two a month—other recommendations. Comm & Fin Chr 117:2841-3 D 29 '23

Report of committee named by Secretary Hoover to investigate alleged discrepancy in Census bureau's cotton figures. Comm & Fin Chr 118:1470-2 Mr 29 '24; Same abr. Econ W n s 27:513-15 Ap 12 '24

Secretary Hester's statistical survey of the American cotton crop of 1924-1925 and its distribution. Econ W n s 30:256-8 Ag 22 '25

Secretary Hoover's advices to Senator Harris on reports of cotton statistics. Comm & Fin Chr 118:1995-6 Ap 26 '24

Seek modification of cotton reports—cotton men say frequent reports disturb market condition. Comm & Fin Chr 121:1174 S 5 '25

Sources of error in cotton consumption statistics. Textile World 65:2107-8 Mr 29 '24

Statistical analysis of the cotton industry. Rev. ed. Merchants' national bank of Boston, Boston '24

Supplies and consumption of cotton. Textile Inst J 14:P315-18; 15:P19-25 D '23-Ja '24

Weevils of the cotton trade—official forecasts. A. R. Marsh. Annalist 26:511 O 23 '25

World cotton consumption in half-year ended July 31. Textile World 66:2514 N 1 '24

World cotton situation for the season of 1922-1923. Econ W n s 27:118-19 Ja 26 '24

World's cotton position. Economist 100:1122-4 Je 6 '25

Tables and ready-reckoners

Whiteside's textile export conversion tables. A. Whiteside, comp. 65p Bragdon, Lord & Nagle co., New York '23

Canada

Canada's imports of raw cotton and cotton manufactures, 1910-1924. Econ W n s 27:859 Je 14 '24

China

Production and marketing of cotton in China. B. Y. Lee. Econ W n s 27:42-3 Ja 12 '24

Dutch East Indies

Cotton goods market in the Netherlands East Indies. E. B. George. U S Bur For & Dom Com Trade Information Bul 327:1-25 '25

France

Conditions in the French cotton industry. J. F. Butler. Econ W n s 27:874-5 Je 21 '24

Germany

Come-back of Germany. Comm & Fin 14:1807 S 16 '25

German cotton trade. il Comm & Fin 13:186, 226 Ja 16-23 '24

Germany's increased imports of cotton in 1925. Econ W n s 30:139 Jl 25 '25

Information obtained by the United States Department of agriculture on the cotton situation in Germany. Econ W n s 27:211 F 9 '24

Great Britain

Agitation for control of the Lancashire cotton industry. O. Jones. Harvard Business R 2:447-52 Jl '24

British cotton trade finance. H. D. Butler. Textile World 64:3699 D 22 '23

British Empire cotton production. Index p 6-7 S '25

Cotton position in England. F. C. Chappell. Annalist 22:628+ N 12 '23

Cotton trade. Economist 100:742-3; 101:139-40 Ap 18, Jl 25 '25

Crisis in the cotton industry; report of the proceedings of the Provisional emergency cotton committee. 2v Sherratt & Hughes, Manchester, Eng. '23

Empire and miscellaneous cotton delivery contract adopted by the Liverpool cotton association. Econ W n s 30:211 Ag 8 '25

English cotton industry in 1923—chief events of the year. F. W. Tattersall. Manuf Rec 85:83-4 Ja 3 '24

Exports of cotton yarns and cloths from Great Britain; monthly statistics. Published in third number of each month of Economic world

Lancashire cotton trade in 1923. Economist 98: 130-1 Ja 26 '24

Lancashire cotton trade in 1924. Economist 100:86-8 Ja 17 '25

1923 English cotton industry. F. W. Tattersall. Textile World 65:811+ F 2 '24

Our overseas trade. E. Stockton. Textile Inst J 15:P505-13; Discussion. P513-14 O '24

Outlook bright in Lancashire. F: W. Tattersall. Textile World 67:891 F 7 '25

Status of English cotton trade. Textile World 65:3416 My 24 '24

What is wrong with the English cotton trade? C: W. Macara. Textile World 65:735-7 F 2 '24

See also Empire cotton growing corporation; Fine cotton spinners' and doublers' association

India

Indian market for cotton goods. O. Jones. charts Harvard Business R 4:40-8 O '25

COTTON trade—India—*Continued*
Present position of textile industries in India and trade with Britain. K. S. Rao. Textile Inst J 15:P182-9 Je '24
Status and problems of the Indian cotton mill industry. Textile World 68:489 Jl 25 '25

Italy

Activity of the cotton industry in Italy. Econ W n s 30:139 Jl 25 '25
Cotton weaving industry in Italy in 1923. J. A. Palmer. Econ W n s 27:766-7 My 31 '24
Italian cotton industry in 1923. R. Angelone. Textile World 66:77-8 Jl 5 '24

Japan

Flourishing condition of Japan's cotton industry. K. Kawase. Econ W n s 30:499 O 3 '25
Recent statistics published by the Japan cotton spinners' association; abstracts. Textile World 68:2617-18 O 31 '25; Bradstreet's 53: 723 N 7 '25
Remarkable recovery of Japan's cotton textile industry since the earthquake. Econ W n s 27:334-5 Mr 8 '24

Mexico

Mexican cotton textile industry in 1923. T: D. Bowman. Econ W n s 27:443 Mr 29 '24

Netherlands

Cotton trade of Rotterdam, the Netherlands. G: E. Anderson. Econ W n s 28:7-8 Jl 5 '24

New England

Changes in New England cotton buying and selling rule. Textile World 68:1152+ Ag 29 '25
Wamsutta dropped all private brands and then—. R: J. Walsh. Ptr Ink 131:3-4+ Ap 23 '25

Russia

Russia's cotton come-back. Comm & Fin 14: 1977+ O 7 '25
Russia's cotton purchases. il Comm & Fin 13: 1235+ Je 25 '24

Southern states

See Cotton trade—United States

Tennessee

Country's greatest cotton specialty market; Memphis. il Comm & Fin 13:2071+ O 22 '24

Texas

King cotton made to yield heavier tribute in Texas. G. A. Nichols. Ptr Ink 131:73-4+ Je 25 '25

Turkey

Turkish cotton-goods market. J. E. Gillespie. U S Bur For & Dom Com Trade Information Bul 171:1-18 '23

United States

Activity in the cotton-spinning industry for December 1924. Comm & Fin Chr 120:399 Ja 24 '25 [continued monthly]
Address at American cotton manufacturers association convention. W: E. Beattie. Textile World 65:3591+ My 31 '24
Address of President Coolidge before National cotton manufacturers' association. Comm & Fin Chr 120:1836-8 Ap 11 '25
Alarming volume of fine cotton goods imports. Textile World 65:1595-6+ Mr 1 '24
Arkansas bankers, business men and farmers adopt more cotton and less acres program—thirty-cent cotton plan opposed. Comm & Fin Chr 117:2843 D 29 '23
Bill calling for semi-monthly cotton reports passed by Congress. Comm & Fin Chr 118: 1472-4 Mr 29 '24
Census bureau's final report on cotton ginning. Comm & Fin Chr 118:1331 Mr 22 '24
Census report on cotton consumed and on hand, also active spindles, and exports and imports. Comm & Fin Chr 117:2160-1 N 17 '23 [continued monthly]
Changes in the destination of United States cotton exports. R. Skliar. Econ W n s 30: 441-2 S 26 '25
Conference on cotton handling. Textile World 67:1498-9 F 28 '25
Co-operatives sold 8% of cotton crop—marketed 1,125,000 bales last year. Comm & Fin Chr 121:1303-4 S 12 '25
Cotton cloth imports increase. Textile World 65:2851-2 Ap 26 '24
Cotton consumption, exports and stocks. Bradstreet's 53:51 Ja 17 '25
Cotton crop of 1923. Bradstreet's 52:525-6 Ag 16 '24
Cotton crop of the United States for 1923-1924; abstracts. H: G. Hester. Manuf Rec 86:69-71 Ag 14 '24; Econ W n s 28:262-3 Ag 23 '24
Cotton demand seems outpacing the supply. H. E. Anderson. Annalist 24:574 D 1 '24
Cotton goods—an industry adrift. B: Baker. Annalist 24:573, 605-6, 637+, 668 D 1-22 '24
Cotton industry's future in its own hands. A. R. Marsh. Annalist 23:707-8 Je 23 '24
Cotton manufacturers of the nation meet to discuss diversification. Manuf Rec 88:77-8 O 8 '25
Cotton mills. Moody's Inv Serv 17:262 Ag 6 '25
Cotton outlook a cause for apprehension. E: E. Bartlett, jr. Annalist 23:19+ Ja 7 '24
Cotton production and distribution in the season of 1923-24. Comm & Fin Chr 119:2239 N 15 '24
Cotton textile industry. Index p 14-16 My '24
Cotton trade. Moody's Inv Serv 17:106 Mr 26 '25
Cotton trading on Chicago Board of trade on Dec. 1. Comm & Fin Chr 119:2463-4 N 29 '24
Dividends of southern cotton mills. Manuf Rec 88:83 Jl 16 '25
Economic outlook for American cotton; world must adjust itself to greatly reduced crops. A. R. Marsh. Annalist 22:627-8+ N 12 '23
Engineer's view of the industry. J. E. Sirrine. Textile World 66:71-2 Jl 5 '24
Federal trade commission's report to Senate on cotton merchandising practices. Comm & Fin Chr 120:538-9 Ja 31 '25
Foreign markets for American cotton goods. E. T. Pickard. Econ W n s 28:838-9 D 13 '24
Important facts about cotton. I. V. Shannon. Forbes 14:379 Je 21 '24
Interdependence of agriculture and manufacture in industry. S. W. Cramer. Textile World 67:2714-15 Ap 18 '25
Life in the cotton trade. W: Ray. Comm & Fin 14:845 Ap 29 '25
Manchester beats the tariff. Comm & Fin 14:476 Mr 11 '25
Noticeable changes in raw cotton distribution. Manuf Rec 88:56 S 24 '25
Outlook for cotton goods trade in 1925 bright. G: Walcott. Annalist 25:41 Ja 5 '25
President's address at N. C. meeting. B. M. Cone. Textile World 66:72+ Jl 5 '24
Problems and progress of the industry. W: E. Beattie. Manuf Rec 85:73-4 My 29 '24
Report of Federal trade commission on the cotton trade. Comm & Fin Chr 118:2762-3 Je 7 '24
Report of N.A.C.M. commission on cotton trade. Textile World 66:2803-5 N 15 '24
Reserve board aids sale of United States cotton to German spinners. Comm & Fin Chr 119:650-1 Ag 9 '24
Review of cotton goods trade of 1923. G: Walcott. Annalist 23:19 Ja 7 '24
Rise of the cotton industry in the South. I. Cone. Manuf Rec 86:71 D 25 '24
Secretary of commerce Hoover urges prohibition by cotton manufacturers of cancellation of contracts. Comm & Fin Chr 120: 1963-4 Ap 18 '25
Short supply boosts cotton prices. Textile World 65:847+ F 2 '24
Southern cotton mills. Moody's Inv Serv 17: 170 My 21 '25
Southern wholesaler's problems. N. H. Johnson. Textile World 65:3603+ My 31 '24
Steady improvement forecast for cotton goods. Textile World 67:887+ F 7 '25
Stocks of cotton at warehouses and mills, 1913-1924. Survey of Cur Business 32:10 Ap '24

COTTON trade—United States—*Continued*
Supply and distribution of cotton in the United States season of 1924-25. Comm & Fin Chr 121:922 Ag 22 '25
Supply and price of cotton. Comm M 7:23-7 O '25
Swift movement of cotton to mills and for export. Bradstreet's 53:129 F 21 '25
Tariff commission reports on trade depression. Textile World 65:3939-40+ Je 14 '24
Textile world analyst. L: H. Haney. Textile World 68:687-9, 1335-6, 2165-6, 2781-2 Ag 1, S 5, O 10, N 7 '25
Trade commission's cotton report. C. B. Howard. Textile World 66:2816g-h+ N 15 '24
12,816,000 bales of cotton. Bradstreet's 52: 734 N 15 '24
Unbridled speculation and enormous sales of fictitious cotton created buyer's panic. J. S. Wannamaker. Manuf Rec 85:75-7 Ap 24 '24
Week's price range and activities in the trade. See weekly numbers of the Annalist
What the new Chicago cotton exchange means. W: R. Meadows. Textile World 67: 1493-5+ F 28 '25
World stocks of cotton. Comm & Fin Chr 118: 1846 Ap 19 '24
Worth street—center of cotton goods industry. Comm & Fin 14:866 sec 2 Ap 29 '25

See also Cotton exchanges; Cotton futures act; Cotton manufacturers' institute (proposed); New York cotton exchange; Tariff—United States—Cotton

COTTON waste
Cotton wastes have good year. Textile World 65:849+ F 2 '24
What is the outlook for cotton rags? E. H. Naylor. Paper Tr J 78:34 Mr 30 '24

See also Wiping cloths

Specifications
United States government master specification for cotton waste, colored. U S Bur Stand Circ 263:1-3 '25

COTTON wax. See Cotton—Analysis

COTTON weaving
Discussion on weaving. Textile World 68:2474-5 O 24 '25
Effect of atmospheric conditions on health and efficiency (with special reference to the cotton industry). S. Wyatt. il J Ind Hygiene 7:317-44 [bibliog. p. 344] Jl '25
Report of weaving committee. Textile World 67:4171+ Je 27 '25
Weaving cotton and rayon mixtures. J: Reynolds. il Textile World 68:1778+ sec 2 S 26 '25
Weaving efficiency discussed at meeting of weavers' section of Southern textile association. Textile World 67:2837-8 Ap 25 '25
Winding warp and filling yarn. G: W. Foster. Textile World 65:4078-80 Je 21 '24

COTTON yarn
Change from last year's conditions in yarn market. Textile World 65:839+ F 2 '24
Cotton spinners' problems solved. S. E. Smith. diags Textile World 65:1865+, 2651+, 3953+; 66:221+, 1425, 3454-6; 67:319-20+, 2991-2, 3863+ Mr 15, Ap 19, Je 14, Jl 12, S 13, D 13 '24, Ja 17, My 2, Je 13 '25
Difficult year for fine yarns. Textile World 65:845+ F 2 '24
Distribution of stresses in cotton products. H. P. Gurney. Textile Inst J 16:T269-89 S '25
Effect of twist on the physical properties of a number 7s yarn. F. R. McGowan, C: W. Schoffstall and A. A. Mercier. il U S Bur Stand Tech Pa 278:85-95 '25
Influence of the degree of twist in yarns on the results of yarn mercerisation, and on the properties of plain fabrics made from grey or mercerised cotton yarns. H. K. Corser and A. J. Turner. Textile Inst J 14:T332-60 O '23
Lustre of doubled yarns. A. Adderley and A. E. Oxley. il diags Textile Inst J 14:T361-74 N '23
Lustre of doubled yarns. A. E. Oxley. il Soc Dyers & Col J 40:135-8 My '24
Lustre of yarns and fabrics. A. Adderley and A. E. Oxley. bibliog diags 4 pls Textile Inst J 16:T167-84 Je '25
New method of random dyeing on knitting yarns. E: Allen. Color Tr J 15:93 S '24
Regularity of certain high and low draft yarns and the effect of varying weight on top middle roller. F. Charnley. bibliog diags Textile Inst J 15:T347-62 Jl '24
Textile world analyst. L: H. Haney. Textile World 68:114-15 Jl 4 '25
Uses of doubled yarns and their production. W. Bailey. Textile Inst J 15:P39-42 F '24
Yarn outlook complex and generally uncertain. Textile World 67:915+ F 7 '25

Inspection
Some problems encountered in inspecting dyed yarns in the dyehouse. W. F. Haskell. Am Dyestuff Rep 12:938-9; Discussion. 939-41 D 31 '23

Specifications
Proposed revised tentative specifications for tolerances and test methods for cotton yarns, single and plied. Textile World 65: 4281+ Je 28 '24
Proposed tentative specifications for tolerances and test methods for electrical cotton yarns. Textile World 65:4283+ Je 28 '24

Testing
Effect of roller delivery motion on the regularity of mule yarns. F. Charnley. Textile Inst J 15:T273-80 My '24
Influence of mule spinning on some properties of cotton yarns. W. English. Textile Inst J 16:T97-113, T114-22 Ap-My '25
Physical tests on sized yarns. A. E: Owen. diag Textile Inst J 14:T375-89 N '23
Relation between the breaking strength of cotton yarns and the twist at the place of breaking. W. English. Textile Inst J 15: T385-400 Ag '24; Excerpt. Textile World 66: 2023+ O 11 '24
Single strand test and lea test for yarn strength. Textile World 66:1425+ S 13 '24
Some tensile properties of cotton yarn. T. Fuwa. il Textile World 64:3577+ D 15 '23
Testing machine for twist, elongation and contraction in yarns. il Textile World 65: 2661 Ap 19 '24

COTTONIZING
Cottonising flax and hemp. C: F. Greenfield. Textile Col 47:565-7, 632-4 S-O '25
Cottonizing of linen waste. S. C. Schimansky and P. P. Budnikoff. Color Tr J 14:73-5 F '24

COTTONSEED
Annual orgy of cotton seed buying. J. D. Dawson. Comm & Fin 13:714-15 Ap 9 '24
Cotton seed—by-product or queen? L. Johnson. Chem Age 32:304 Jl '24
Extraction of oil from seeds, nuts and kernels. J. Brewis. il diags Soc Chem Ind J (Chem & Ind) 43:111-19 F 1 '24
Proteins of the cottonseed; abstract. D. B. Jones and F. A. Csonka. J Fr Inst 200:678 N '25
Too many bulls still in cotton seed. W: H. Jasspon. Comm & Fin 14:431-2 Mr 4 '25
Value of South's cottonseed as stock feed. P. O. Davis. Manuf Rec 88:99-100 S 3 '25
Variable content of oil and ammonia in cotton seed from various districts. Chem & Met Eng 30:906 Je 9 '24
Vegetable oil industry of the South—cottonseed, peanut and soy bean. C: A. Whittle. il Manuf Rec 86:204-6 pt 2 D 11 '24

Prices
Cottonseed, oil, cake, meal. Published in weekly numbers of Oil paint and drug reporter

Statistics
Cottonseed production. Comm & Fin Chr 118: 1333 Mr 22 '24 [continued monthly]
Flaxseed and cottonseed, 1921-1924. Survey of Cur Business 30:117 F '24 [continued quarterly]

COTTONSEED meal
Preparation of raffinose from cottonseed meal. D. T. Englis, R. T. Decker and A. B. Adams. Am Chem Soc J 47:2724-6 N '25

COTTONSEED oil
Chemical and material markets in 1923. Chem & Met Eng 30:118-19 Ja 21 '24
Cottonseed, oil, cake, meal. Published in weekly numbers of Oil paint and drug reporter
Cottonseed oil prices higher in 1924. Chem & Met Eng 32:141 Ja 19 '25
Economic conditions in the cotton seed oil industry. J: Aspegren. Chem Age 32:259-61 Je '24
Economy in cotton oil refining. L: C. Whiton. diag Chem Age 31:505-8 N '23
Foreign trade of the United States in cottonseed oil. Econ W n s 29:730-1 My 23 '25
Influence of several solvents on the Hanus iodine values of cottonseed and coconut oils. H. J. Bankston, jr., and F. C. Vilbrandt. Ind & Eng Chem 16:707-8 Jl '24
Kinetics of hydrogenation; stationary films. E. J. Lush. diags Soc Chem Ind J 44:129-34 Mr 27 '25
New Orleans cotton seed oil market. A. D. Geoghegan. il Comm & Fin 14:2123+ O 28 '25
Some reminiscences of a fat and oil chemist. W: B. Allbright. Chem Age 32:295-6 Jl '24
Vegetable oil industry of the South—cottonseed, peanut and soy-bean. C: A. Whittle. il Manuf Rec 86:204-6 pt 2 D 11 '24
What is wrong with the cotton oil industry? W: H. Jasspon. Comm & Fin 13:119 Ja 9 '24

COTTONWOOD trees
Tidying up the untidy cottonwood tree. il Sci Am 132:406-7 Je '25

COTTRELL process. See Electric precipitation

COUMARIN
Action of sodium sulphite on coumarins. B. B. Dey and K. K. Row. Chem Soc J 125: 554-64 Mr '24

See also Aminocoumarins

COUNCIL on industrial relations for the electrical construction industry
Industrial council in the electrical construction industry. Monthly Labor R 18:342-3 F '24

COUNCILS, Industrial. See Industrial councils

COUNTER display cabinets
How shall we distribute that display cabinet? Ptr Ink 133:98-8+ O 8 '25
One square foot of counter space as a sales argument. C: G. Muller. Ptr Ink M 9:116+ O '24
Why we side-tracked precedent in our spring sales program. J. B. Wright. il Sales Management 6:791-2 Ap '24

COUNTERBORES
Manufacturing interchangeable counterbores. C: O. Herb. il diags Mach 30:943-7 Ag '24

COUNTING machines and devices
Accurate device for counting bags of material. il Chem & Met Eng 32:391 Mr '25
Automatic counter and ream marker for paper. il Paper Tr J 80:45 Ja 22 '25
Practical ways to cut costs. il Factory 32: 820-1 Je '24
Textile counters for knitting machines, hosiery finishing and yard meters. il Textile World 66:1561 S 20 '24
Veeder magnetic counter form U. il Am Mach 62:561 Ap 2 '25

COUNTRY banks. See Banks and banking—Country banks

COUNTRY clubs
Financing and operating the golf club. C. S. Taylor. il plan Arch Forum 42:165-8 Mr '25
Golf and country club reference number. il plans Arch Forum 42:129-212, pl 17-40 Mr '25

See also Clubhouses; Golf links

COUNTRY homes
Country place types of the Middle West. R. R. Root. il plans Arch Rec 55:1-32 Ja '24

COUNTRY houses
Alterations at Underhill farm. il plans Arch Forum 41:161-8 O '24
American country house. A. L. Kocher. il plans Arch Rec 58:401-512 N '25
American country house. R. F. Whitehead. il plans Arch Rec 54:393-424 N '23
Country house of Albert Kahn, architect, Birmingham, Mich. Am Arch 126:pl 169-72 N 19 '24
Covedale gables; residence of Mr William Lucking of Cincinnati, Ohio. Arch & Bldg 57:2, pl 12-15 Ja '25
Current country house architecture. R. F. Whitehead. il plans Arch Rec 56:385-488 N '24
An English house and garden. T: H. Mawson. il Arch Rec 57:359-67 Ap '25
House of Dr P. S. Chancellor, Millbrook, N.Y. E: C. Smith. il plans Arch Forum 41:177-80 O '24
House of J. G. Kellogg, Winnetka, Ill. il plans Arch Forum 41:285-8 D '24
House of J. H. Carstairs, Ardmore, Pa. il Arch Forum 42:213-18, pl 48-50 Ap '25
Notes on planning of grounds and buildings. G: Howe. il plans Arch Forum 41:45-8 Ag '24
Portraits of ten country houses, designed by Delano & Aldrich, drawn by C. B. Price. 61 pl Doubleday '24
Ranch estate of Thomas H. Ince, Beverly Hills, Cal.; views and plans. Am Arch 125: 560a-h Je 18 '24
Status of the country house. il plans Arch Rec 54:425-88 N '23
Stillington, estate of Leslie Bushwell, esq., Gloucester, Mass. H. Stark. il Arch Forum 42:307-12, pl 53-5 My '25

See also Architecture, Domestic; Architecture, Domestic—Italy; Bungalows; Farmhouses

COUNTRY newspapers. See Newspapers

COUNTRY stores
B. B. Butts—merchant prince of the Rosebud. Forbes 14:384-6 Je 21 '24
Cross-roads merchant airs his views on the scarcity of salesmen. R. McDaniel. il Sales Management 7:1225-6+ Jl '24
Getting the farmer's point of view solved our sales problems. R. J. Murray. il System 48:161-3+ Ag '25
How the food producer is winning the farm market. Ptr Ink 133:81-2+ O 22 '25
How to build a big business in a small town; Murray boys of Honesdale, Pa. W: A. McGarry. il Forbes 16:807-9+ S 15 '25
Keeping the home-trade home. D: H. Biddle. il System 46:60+ Jl '24
Methods behind a $2,000,000 business in a town of 3,000. T: P. Hinman. il System 48:287-90+ S '25
Small town comes to bat. W. L. Butler. Forbes 15:285+ D 1 '24
Why neglect the small-town dealer? G. A. Nichols. Ptr Ink 132:33-4+ Jl 30 '25

Advertising

How Father Murray took care of the boys. R. J. Murray. Ptr Ink 133:57-8+ O 29 '25

COUNTY bonds
Bond proposals and negotiations; United States and Canada. See weekly numbers of Commercial and financial chronicle

COUNTY government
County government and administration in Iowa. B: F. Shambaugh, ed. 716p [bibliog. p. 629-90] State historical society of Iowa, Iowa City '25

COUPLINGS
Alpe coupling disks have a cord foundation. il Automotive Ind 50:517 F 28 '24
Boston gear works flexible insulated coupling. il Am Mach 62:792 My 14 '25
Clutches and couplings. G. A. Van Brunt. il Ind Eng 83:63-4 F '25
Falk-Bibby flexible coupling for shaft. il Chem & Met Eng 29:976 N 26 '23; Mech Eng 45:707 D '23; Marine Eng 28:742 D '23
Flexible couplings. C: H. Clark. il diags Mach 31:509-17 Mr '25

COUPLINGS—*Continued*
Flexible-disc proposal changed. diags Soc Auto Eng J 13:504-5 D '23
Francke high-speed and pressed steel flexible couplings. il Am Mach 60:339 F 28 '24; Iron Age 113:500 F 14 '24; Power Pl Eng 28:626 Je 1 '24
Installation and operation of flexible couplings. F. E. Gooding. il diags Ind Eng 81: 579-83 D '23
New type coupling box for rolling mills. il Iron Age 115:1713 Je 11 '25
Operating clutches and cutoff couplings. R. E. Gooding. il Ind Eng 82:127-30 Mr '24
Planetary gearing, Oldham coupling and its graphical solution. F. D. Furman. diags Mach 31:973-8 Ag '25
Safety couplings for machine drives. F. O. Hickling. diags Am Mach 61:921-3 D 11 '24
Shock absorber and flexible coupling combined introduced by the Terry steam turbine co. il Coal Age 26:854 D 11 '24; Power Pl Eng 28:1230 D 1 '24
Sykes universal shaft coupling. il diags Am Mach 63:719 O 29 '25; Eng & Min J 120:715 O 31 '25; Textile World 68:2637 O 31 '25; Iron Age 116:1257 N 5 '25
Top roll driven through frictional couplings. diag Iron Tr R 74:292 Ja 24 '24
Use of clutches and cutoff couplings. F. E. Gooding. il diags Ind Eng 82:5-9 Ja '24
See also Car couplings; Hose couplings; Joints, Universal

COUPON books
How to increase sales. B. M. Nugent. Pet Age 13:66 My 1 '24

COUPONS. See Advertisements—Coupons; Banks and banking—Interest coupons

COURTESY
Paying dividends with courtesy. A. J. Hain. Iron Tr R 76:564-6 F 26 '25
Responsibility of management to be courteous. A. Bradbury. Ptr Ink 126:53-4+ F 7 '24

COURTHOUSES
Competition for court house, Providence, R. I. il diags plans Am Arch 125:403-10, 463-6 Ap 23-My 7 '24
Metal aplenty on W. Va. courthouse. H. G. Heinz. il Sheet Metal Worker 15:490 Jl 18 '24
Third district court, Second avenue and Second street, New York. Arch Forum 41:87, pl 31-2 Ag '24

COURTS
See Contempt of court; Justice, Administration of

COURTS (architecture)
Andalusian gardens and patios. M. Stapley and A. Byne. il Arch Rec 54:488-506; 55:65-80, 177-93, 277-92, 373-87, 478-92, 569-85; 56: 75-88, 161-77, 257-75 D '23-S '24
Apartments in court groups. plans Bldg Age 46:96-7 N '24
Court idea for stores. C: A. Byers. il diag Bldg Age 46:94-5 N '24
Spanish gardens and patios. M. S. Byne and A. Byne. 305p Lippincott '24

COURTS, Commercial
See also Arbitration

COURTS, Industrial
Development of state wage regulation in Australia and New Zealand. D. M. Sells. Int Labour R 10:607-29 O '24
Experiments in state control in New Zealand; Arbitration court, Board of trade. J. B. Condliffe. Int Labour R 9:334-60 Mr '24
Industrial court. W: W. Mackenzie. 44p Butterworth & co., London '23
New province for law and order. H: B. Higgins. 181p Dutton '22
See also Kansas—Court of industrial relations

COURTS, International
See Permanent court of international justice

COVERLETS
Linen and bedding. F. J. Ringo. 119p Shaw '25

COVINGTON, Tennessee
Water supply
Providing a new water supply for small towns. A. Charter. il Manuf Rec 88:94-5 Jl 30 '25

COWLITZ river
Large power project planned for Cowlitz river, Washington. J Elec 55:147 Ag 15 '25

COWPER stoves. See Blast furnace stoves

COXE-Lagergren engines
Combined steam and Diesel engine proposed. diags plan Marine Eng 30:24-6 Ja '25

CRACKING processes. See Petroleum distillation

CRADLES (docks)
Cradles for a train ferry service in Nigeria. il diags plans Engineer 138:182-4, 186 Ag 15 '24; Same. Eng & Contr (Ry) 62:645-50 S 17 '24
Ships unloaded by cranes operating on slipway structure. diags plans Eng N 95:707-8 O 29 '25
Slipway for handling cargo on the coast of Guatemala. il Engineering 120:238-40, pl 15 Ag 21 '25

CRAFTSMANSHIP
For encouragement of craftsmanship; an account of the Philadelphia plan. Eng & Contr (Bldgs) 62:900-1 O 22 '24
How can the spirit of craftsmanship be revived in the building industry? E. J. Mehren. Eng N 93:837-8 N 20 '24; Same. Sanitary & Heat Eng 103:35-7+, 113-14 Ja 23, F 20 '25; Same cond. Comm & Fin 13:2233-4 N 19 '24
New craftsmanship. R. Dickinson. Ptr Ink 133: 89-90+ N 5 '25

CRAIG, Charles L.
President Coolidge remits contempt sentence imposed on C. L. Craig, Comptroller of New York, by Judge Mayer—Attorney-general's opinion—statement by Mr Craig. Comm & Fin Chr 117:2501-5 D 8 '23

CRAMTON bill. See Prohibition

CRANE chains. See Chains

CRANE hooks
Hooks, cables and chains for wrecking service. diags Ry Mech Eng 99:38-9 Ja '25

CRANES, derricks, etc.
Amphibious wharf crane. diag Cassier's Ind Management 12:198 Mr '25
Les appareils de manutention mécanique des nouveaux docks de Cambrai. il diags Génie Civil 84:513-16 My 31 '24
Baby derricks in quarrying. il Eng & Contr (G C) 63:1308-9 Je 17 '25
Baker locomotive-type crane. il Am Mach 59: 931 D 20 '23; Iron Age 112:1655 D 20 '23
Die baumaschine mit dampfantrieb. F. Berndt. il Zeit Ver Deutsch Ing 68:702-4 Jl 5 '24
Bridge contractor's derrick car. il diag Eng N 93:679-80 O 23 '24
Cargo cranes prove successful. il Marine R 55:57-9 F '25
Combination heavy duty crane and pile driver. il Ry Age 76:757-8 Mr 15 '24
Crane adapts itself to variety of work. T: E. Bennett. il diag Elec W 84:1263-5 D 13 '24
Crane and grab installation for handling clay and cement. il diag Cassier's Ind Management 12:395-7 Ag '25
Crane for removing cylinder heads in the enginehouse. G: J. Lucas. il Ry Mech Eng 98:760 D '24
Cranes; examples of modern practice. C. M. Toplis. bibliog il Cassier's Ind Management 12:38-43 Ja '25
Derricks for steel erection. Eng N 92:1026-7 Je 12 '24
Derricks, how they increase profits on the job. il Bldg Age 47:122-3 F '25
Design of cranes and hoists (including the construction and design of details of lifting tackle). H. Wilda. 2d ed., rev. 159p Van Nostrand '25

CRANES, derricks, etc.—*Continued*
Design of quay cranes. F. M. D. Taylor. diags Engineer 137:598 My 30 '24
Drehkran mit verbrennungsmotorantrieb. Zeit Ver Deutsch Ing 69:1075-6 Ag 8 '25
Elwell-Parker crane with telescoping boom. il Mach 31:833 Je '25; Elec Ry J 65:860 My 30 '25
15-ton electric gantry crane for India. il diags Engineer 140:443 O 23 '25
5-ton underhung-jib crane. il diags Engineer 137:48-9 Ja 11 '24
French automobile crane. il diag Engineer 137:604-5 My 30 '24; Same cond. Automotive Ind 50:1333-4 Je 19 '24
Full revolving crane for use on automobile trucks. il Iron Age 113:1715 Je 12 '24
Gantry wagon tips for yards, river and sea ports. E. Krahnen. il diags Ind Management (Lond) 10:251-3 N 1 '23
Handling without transferring. M: W. Potts. il plans Ind Management 70:296-300 N '25
Increasing the usefulness of cranes and hoists. M: W. Potts. il Ind Management 70: 96-102 Ag '25
Industrial cranes and their varied uses. M. W. Potts. il Ind Management 67:216-23 Ap '24
Industrial crawling tractor crane, type DC. il Am Mach 62:791 My 14 '25; Blast F & Steel Pl 13:221 My '25; Chem Age (Lond) 12:403-4 Ap 25 '25; Ry R 76:871 My 9 '25
Industrial Works cranes. 161p Industrial Works, Bay City, Michigan '23
Large and small McMyler-Interstate cranes. il Eng & Contr (R & S) 61:68 Ja 2 '24
Large bridge-erecting cranes for India. il Engineer 136:566-7 N 23 '23
Large overhead crane installation for handling locomotives. il Iron Age 114:202 Jl 24 '24
Locomotive crane as a coal-storage machine. il Power 59:133-4 Ja 22 '24
Locomotive cranes set two completely assembled plate girder spans. il Eng N 92:413 Mr 6 '24
Mechanical handling devices; the grab bucket. A. E. Marshall. il Ind & Eng Chem 16:5-9 Ja '24
Mechanical unit for handling crossties. Elec Ry J 66:99 Jl 18 '25
Neue stripper. A. Kessner and A. Ebinghaus. il diags Stahl & Eisen 43:1567-9 D 20 '23
Overhead cranes serve new creosoting plant. il plan Ry Age 77:1055-8 D 13 '24
P & H model 203-A truck and trailer crane. il Eng & Contr (R & S) 64:1015-16 N 4 '25
Portable crane for light trucks. il Can Eng 49:259 Ag 25 '25
Portable crane handles building materials at big cost saving. il Eng N 94:904 My 28 '25
Prüfung und uebung von kranführern. A. Friedrich. il diags Stahl & Eisen 45:381-8 Mr 12 '25
Putting locomotive cranes to work. G: E. Titcomb. il Management & Adm 8:475-8 N '24
Recurring fault in detailing crane-run hangers. R. Fleming. diag Eng N 94:567 Ap 2 '25
Steel erection; how truck mounted crane was used in building operations. il Eng & Contr (Bldgs) 64:195-6 Jl 22 '25
10-ton crawling tractor crane. il Can Eng 47: 205-6 Jl 29 '24; Good Roads 67:28 Jl '24; Iron Age 114:83 Jl 10 '24; Eng & Contr (R & S) 62:332 Ag 6 '24; Power Pl Eng 28:825-6 Ag 1 '24
Toplis luffing cranes at Southampton docks. diag Engineering 117:762-3, 768 Je 13 '24
Traveling cranes used to reduce cost of handling ties. Eng N 94:406-7 Mr 5 '25

See also Buckets; Crane hooks; Hoisting machinery; Loading and unloading

Control

Regelbare laufkatze. E. C. Karch. diags Zeit Ver Deutsch Ing 69:1115-17 Ag 22 '25

Cost of operation

Cost of operation—15 ton Brownhoist crane. G. E. Hagemann. il Management & Adm 7:693 Je '24

Electric equipment

Comparative cost of electric traveling and gantry cranes. W: L. Laing. Am Mach 60: 318 F 28 '24
Construction and maintenance of electric overhead travelling cranes. D. Adamson. Engineer 140:460-1 O 30 '25
Direct or alternating current for overhead traveling cranes. W: L. Laing. Am Mach 60:133-4 Ja 24 '24
Electric level-luffing cranes; the Ardrossan harbour installation. W. A. Perry. il Elec R (Lond) 94:248-9 F 15 '24
Electrical handling of material. il Cassier's Ind Management 12:145-7 F '25
Eliminating trouble by replacing crane trolley wires with flexible cable. il Ind Eng 82:499-500 O '24
Elwell-Parker electric crane with telescoping boom. il Ry Age 79:94 Jl 11 '25
5/13½-ton fixed electric tower crane. Engineering 119:13-14, 16 Ja 2 '25
4-ton electric level-luffing wharf crane. il Engineering 119:800, 802 Je 26 '25; Engineer 140: 276-7 S 11 '25
Getting service from electric cranes. Iron Tr R 75:944-5 O 9 '24
Hebezeuge mit wechselgetrieben. W. Claes. diags Zeit Ver Deutsch Ing 68:1247-9 N 29 '24
How trouble on a.c. crane was corrected by dynamic braking. R. F. Emerson. diag Ind Eng 83:448-9 S '25
New tool for car repair work. il Ry Mech Eng 99:657 O '25
New York Central increases capacity of pier; installs revolving cranes. il diag Ry Age 79:529-31 S 19 '25; Elec W 86:952-3 N 7 '25
1½-ton electric overhead travelling crane with underslung bridge. diags Engineering 138:164-6, 168 Ag 1 '24
Solenoid load brakes for crane hoist motors. H. H. Vernon. Am Mach 61:23-4 Jl 3 '24
Three-motor electric battery crane. il diags Engineering 116:558 N 2 '23
Trolley wire supports for monorail crane. diags Ind Eng 83:386-8 Ag '25
Twelve-ton electric transporter at Middlesbrough. il diags Engineer 140:350, 358-9 O 2 '25
20-ton Goliath crane. il diags Engineer 139: 658-9 Je 12 '25
25-ton electric level-luffing crane; Congella graving dock, Durban. il Engineering 118: 104 Jl 18 '24
2-ton electric level luffing roof cranes at Bristol docks. il diag Engineering 119:130-1 Ja 30 '25
Types of cranes for the power plant. il diag Power Pl Eng 28:846-8 Ag 15 '24
Wahl der stromart für hebezeuge unter besonderer berücksichtigung der hafenkrane. H. Gettert. Elektrotech Zeit 45:353-9 Ap 17 '24

Erection

Erection of overhead crane made easy. W: L. Laing. diags Power 60:836-9 N 25 '24

Failures

N.Y. building bureau reports on three derrick failures. il Eng N 93:266-7 Ag 14 '24
Unusual accident wrecks dock crane. D. Partridge. il Marine R 54:281-2 Jl '24

History

Ancient crane; the great municipal crane at Lüneburg, near Hamburg. R. S. MacElwee. il World's Markets 14:12-13+ Ja '24; Same. Dun's Int R 43:59-60 Mr '24

Safety devices

Device for warning crane operators of overhead wires. R. H. Bahney. il Ind Eng 83: 447 S '25
Direction indicators for crane controls. E. F. Creager. diags Am Mach 62:357 F 26 '25
Load indicators installed. il Ry R 77:397-8 S 12 '25

CRANES, derricks, etc.—Safety devices—*Cont.*
Ore and coal bridges made safe. W. G. Hildebran. il Blast F & Steel Pl 13:323-6+ Ag '25; Abstracts. Eng & Min J 120:353-4 Ag 29 '25; Iron Age 116:149-50 Jl 16 '25
Safe crane landings. E. Sheldon. il Am Mach 60:783 My 22 '24
Safe operation and use of crane chains. A. V. De Forrest. Safety Eng 48:247-50 D '24; Same. Nat Safety N 11:23-4 F '25
Safe operation of the locomotive crane. C. T. Fish. il Nat Safety N 10:8-10 Ag '24; Excerpt. Eng & Contr (Ry) 62:661 S 17 '24
Safety council meeting in Louisville discusses cranes. Iron Age 114:921+ O 9 '24
Safety practices with locomotive cranes. Power Pl Eng 28:999 O 1 '24

Specifications

Outline for tentative specifications for traveling crane. Am Arch 124:sup14 N 7 '23

Standards

Seek standardization in crane design. L. P. Egan. Iron Tr R 74:23-4 Ja 3 '24
Standardisation of crane essentials. E: G. Fiegehen. Engineer 139:618-19 Je 5 '25
Standardization of locomotive cranes as auxiliary equipment for use with steam shovels. J. C. Wheat. il Min Cong J 10:171-3 Ap '24

CRANES, Floating
Harbour plant at the British Empire exhibition. il diag Engineering 117:546-9, pl 46-50 Ap 25 '24
Large derrick barge on coast. il Iron Age 116: 1253 N 5 '25
Latest and largest floating crane. il Sci Am 131:249 O '24
Self-propelled 350-ton floating crane. il (supp) diag Engineer 137:396 Ap 11 '24; Génie Civil 84:500-2 My 24 '24

CRANK-case oil. See Automobile engines—Lubrication

CRANKCASES

Manufacture

Central European practice; aluminum crankcases molded with chills and lugs. C. Irresberger. il diags Foundry 52:258-62 Ap 1 '24
Comparative tensile properties of aluminum alloys. E. H. Dix and A. J. Lyon. il diag Automotive Ind 52:738-40 Ap 23 '25
Fiat automobile production methods. J. A. Lucas and F. E. Bardrof. il Am Mach 61: 223-5, 295-7 Ag 7, 21 '24
Jigs and fixtures for small crankcases. A. J. Aires. il diags Am Mach 60:167-70 Ja 31 '24
Milling large crankcases. il Mach 32:183 N '25

CRANKPINS
Bored pins and axles for locomotives. L. H. Fry. Ry Mech Eng 98:667-8 N '24
Crankpin design for electric locomotives. J. K. Wood. diags Am Mach 62:989-92 Je 25 '25
Gage with diamond points for gaging the pins of an automobile crankshaft. C: F. Stein. diags Mach 31:680-1 My '25
Locomotive crankpins—wear and mounting pressure. C. H. Franklin. Am Mach 60:936 Je 19 '24
Operation of anti-friction bearings on crankpin analyzed. J. Kirner. diags Automotive Ind 53:738-44 O 29 '25
Protecting large crankpins. F. W. Bentley, jr. il Power Pl Eng 29:604 Je 1 '25
Replacing crank pins equipped with eccentric arms. R. B. Robinson. diag Ry Mech Eng 99:117-18 F '25
Turret lathe in the railroad shop. il diags Mach 31:346-8 Ja '25

Failures

Crankpin breaks after forty-nine years' operation. il Power 61:991 Je 23 '25

Manufacture

Crank pin grinding and quartering machine. il Ry Mech Eng 98:312 My '24
Crank pin machining time cut in half. L. S. Love. il Iron Age 115:681-3 Mr 5 '25
Crankpin production. U. V. Garred. il diag Am Mach 60:184 Ja 31 '24
Portable crankpin turning device. J. Ellis. diags Mach 30:802 Je '24
Saving operations in finishing crank pins. il Ry Mech Eng 98:303-4 My '24
Turning and rolling mounted crank pins. il Ry Mech Eng 97:341-2 D '23

Repair

Refinishing a large crankpin in position. R: H. Morris. diags Power 61:581 Ap 14 '25

Testing

Crank pin throw gage. diag Ry Mech Eng 99: 584 S '25

CRANKSHAFTS
Balance of the Cadillac V-63 engine. E. W. Seaholm. il diags Soc Auto Eng J 14:70-3 Ja '24
Breaking crankshafts. H. T. Melling. diag Power 59:299-300 F 19 '24
Counterweighted crankshaft among new Cunningham features. D. Blanchard. il diags Automotive Ind 52:1049-51 Je 18 '25
Crank and line shafts for double acting oil engines. J. Hecking. diags Marine Eng 30: 97-102, 167-71 F-Mr '25
Crankshaft failures on gas and oil engines. E: Ingham. Power 60:719-20 N 4 '24
Crankshafts for 8-in-line motors. F. C. Hudson. Am Mach 62:232 F 5 '25; Discussion. N. Carr. 62:387-8 Mr 5 '25
Démonstration expérimentale et mesure précise des phénomènes résonance propre des arbres-manivelles des moteurs à explosion. A. Blondel and H: Harlé. diag Génie Civil 84:502-3 My 24 '24
Engine balance. A. F. Moyer. Soc Auto Eng J 14:84-5 Ja '24
Engine balancing calculations. M. Platt. diags Automobile Eng 14:243-9 Ag '24
Étude experimentale des vitesses critiques des arbres manivelles. F. Harlé. diags Soc Ing Civils Bul 78:267-73, pl 93 Mr '25
Generator problems due to crankshaft vibration. J. W. Allen. il Mech Eng 47:793-4 O '25
How and why ball bearings are used on car and truck crankshafts. P. M. Heldt. diags Automotive Ind 51:282-5 Ag 7 '24
How Packard crankshafts are balanced. il Mach 31:675-8 My '25
Melling crankshaft turning machines. il Mach 31:397-8 Ja '25
Operation of Diesel engines. R. Hildebrand. diags Power 61:571-3 Ap 14 '25
Practical balancing of a V-type engine crankshaft. D. E. Anderson. il diags Soc Auto Eng J 14:409-14 Ap '24
Die reduktion der kurbelkröpfung. Seelmann. diags Zeit Ver Deutsch Ing 69:601-3 My 2 '25
Stress distribution in crankshafts and its relation to crankshaft failures; abstract. D. J. McAdam, jr. and G. F. Wohlgemuth. Mech Eng 46:489 Ag '24

Manufacture

Butt-welding multi-throw cranks. A. M. Lount. il diags Mach 31:144-5; 32:222-3 O '24, N '25
Forging crankshafts for large Diesel engines. F. H. Colvin. il Am Mach 63:3-5 Jl 2 '25
Forging of automobile crankshafts. J: H. Nelson. il Blast F & Steel Pl 13:129-33+ Mr '25
Fuel of the future. I. Ginsberg. Am Gas J 122:481-2+ Je 6 '25
How crankshafts for Diesel engines are machined. F. H. Colvin. il Am Mach 63:45-9 Jl 9 '25
Lincoln crankshaft practice. C: O. Herb. il diag Mach 31:539-44 Mr '25
Machining automobile crankshafts. W. E. Groene. il Mach 30:855-8 Jl '24
Precautions needed in production of automotive drop forgings. il Automotive Ind 50: 1388-91 Je 26 '24

CRANKSHAFTS—Manufacture—*Continued*
Reed-Prentice hollow spindle lathe for crankshafts reduces overhang to a minimum. il diags Automotive Ind 51:774-5 O 30 '24
Unity method of constructing large crankshafts. F. Johnstone-Taylor. diags Marine Eng 30:211 Ap '25

Repair

Money and time saved on crankshaft repair. il diags Power 62:280 Ag 25 '25
Precision welding. S. W. Mann. il Blast F & Steel Pl 12:81-4 Ja '24

CRATES
Applying science to crating. E. Christmas. il Ind Management 66:361-6 D '23
Constructing strong crates for machinery. C. A. Plaskett. il Mach 30:506-7 Mr '24
Eleven packing problems and how they were solved. H. N. Knowlton. il diags Factory 33:515-19+ O '24
Making better crates—and in half the time. B. E. Gaylord. il Factory 34:602-5 Ap '25
"Two of the many economies—." G. L. Gardiner. il Factory 34:65 Ja '25

CREAM
Experimental study of the electrical conductivity of disperse systems; cream. H. Fricke and S. Morse. Phys R 25:361-7 Mr '25

CREAM separators

Manufacture

Press work in agricultural machinery plants. C. C. Hermann. diags Mach 32:120-2 O '25

CREAMERIES
Creamery and ice making plant. T. Mitchell. il Refrig W 60:11-13 F '25

CREAMERIES, Cooperative
Farmer-controlled creameries. Monthly Labor R 18:434 F '24

CREAMERY waste. See Dairy waste

CREATINE
Equilibrium between creatine and creatinine, in aqueous solution; the effect of hydrogen ion. G. Edgar and H. E. Shiver. Am Chem Soc J 47:1179-88 Ap '25

CREATININE
Chemistry of Jaffe's reaction for creatinine; the effect of substitution in the creatinine molecule and a possible formula for the red tautomer. I. Greenwald. Am Chem Soc J 47:1443-8 My '25
Equilibrium between creatine and creatinine, in aqueous solution; the effect of hydrogen ion. G. Edgar and H. E. Shiver. Am Chem Soc J 47:1179-88 Ap '25

CREDIT
Analyzing the credit risk. F: S. Sibley. Credit M 26:10+ Mr '24
Are banking and credit inflated? H. P. Willis. Annalist 26:371 S 25 '25
Assets or liabilities? patents and trade marks as credit factors. M. Wright. Credit M 26:9+ S '24
Bad debt losses decrease among wholesale grocers. F. A. Fall. Credit M 27:7 Je '25
Bank credit and unemployment. Int Labour R 9:78-94 Ja '24
Bank credit; principles and operating procedure. G. G. Munn. 284p McGraw-Hill '25
Bank versus mercantile credits. W. H. Steiner. Bankers M 108:712-14 My '24
Banker's credit manual. A. Wall. Rev. ed. 324p Bobbs '24
Better credit letters. M. D. Miller. Bankers M 111:167-70 Ag '25
Bowery Y.M.C.A. collects 94 per cent of its loans to derelicts. A. O'Neill. Ptr Ink 130: 61-2+ F 12 '25
Broad field of credit. E. P. Tuttle. Credit M 26:8-9 Jl '24
Business loses $250,000,000 a year to credit crooks. W: H. Pouch. Forbes 16:249-50 Je 1 '25
Call money and its relation to bank credits. D. R: Young. Am Bankers Assn J 17:69-71+ Ag '24; Same. Econ W n s 28:294-7 Ag 30 '24
Can he pay?—our salesmen tell us. R. E. Nuese. System 48:275-6+ S '25
Character analysis first of all. J. P. McDonald. Credit M 27:7+ Ja '25
Character as a basis for credit. J: H. Finley. Credit M 26:16+ Ja '24
Character, capital and capacity to succeed are credit factors. M. A. Brewster. Nat Pet N 17:70 Ap 29 '25
Character of management as a basis for optaining bank credit. Harvard Business R 3: 481-5 Jl '25
Cheap credit is one cause for the over-expansion of jobbers. J. C. Chatfield. Nat Pet N 16:21+ Ap 23 '24
Closer watch on business; trend of check transactions as an index. C. N. Stone. Credit M 26:13+ Ja '24
Comparative credit costs. D. R: Young. charts Am Bankers Assn J 16:418-20, 497-500 Ja-F '24
Confidence, credit and enterprise. T. Rich. Cassier's Ind Management 11:130-1 Mr 6 '24
Construction and credit. E. W. Ryberg. Eng & Contr (R & S) 63:63-4 Ja 7 '25
Controlling branch credits. C: Jost. Credit M 26:31+ Ja '24
Credit asset; care of records. W: Gregg. Credit M 27:16-17+ My '25
Credit data, complete and reliable, provided by means of co-operation. C. V. Howard. Oil Paint & Drug Rep 104:49 D 31 '23; Same cond. Iron Age 112:1728-9 D 27 '23
Credit field in transition. W. H. Steiner. Am Bankers Assn J 18:139-41 S '25
Credit granting in Mexico. J. E. Hodges. Credit M 27:7-9 O '25
Credit in Chinatown, N.Y. V. Harley. Credit M 27:19 Ja '25
Credit in relation to business progress. J. H. Tregoe. Comm & Fin Chr 121:2225-6 N 7 '25
Credit in the Northwest. A. B. C. Batson. il Credit M 7:13+ Je '25
Credit in woolens situation. A. D. Whiteside. Textile World 66:3282+ D 6 '24
Credit letters. R. M. Dulin. 84p Ronald press '24
Credit management. E. E. Olson and J. W. Hallman. 444p Ronald press '25
Credit plentiful for Wall Street. Comm & Fin Chr 120:147 Ja 10 '25
Credit procedure that increased volume. R. E. Nicholas. il System 47:169-70+ F '25
Credits. 480p American institute of banking, New York '24
Credits and collections in theory and practice. T. N. Beckman. 465p McGraw-Hill '24
Credits and collections; their control by treasurer or sales department. M. J. Beirn. Credit M 26:24+ Je '24
Cross section of a business; digging out facts the balance sheet doesn't show. H. F. Seward. Credit M 26:13+ Mr '24
Current position as basis for credit. Harvard Business R 3:497-501 Jl '25
Danner-Kraft dry goods company. H. G. Moulton. 16p Univ. of Chicago press, Chicago '22
Development of trade association credit information service. Comm & Fin Chr 120: 2747 My 30 '25
Does it pay to investigate credit for small purchasers? Ptr Ink 132:76 S 10 '25
Economic study of rural store credit in New York. L. Spencer. Cornell U Agric Exp Sta Bul 430:1-39 '24
Federal reserve board discusses guides to credit policy. Comm & Fin Chr 118:2773-5 Je 7 '24
Fidelity and surety insurance in relation to business credit. H: S. Ives. Econ W n s 27: 525-7 Ap 12 '24; Same. Credit M 26:10+ Ap '24
Finance and credits. T. G. Reardon. Dom Eng 109:37+ D 27 '24
Financial investigations of industrials. F. G. Coburn. Harvard Business R 2:154-9 Ja '24
Fire prevention as a credit asset. W. W. Orr. Econ W n s 27:673-4 My 10 '24; Same. Safety Eng 47:226-7 My '24
Fire safety as a factor in business credit. W: W. Orr. Econ W n s 27:277-9 F 23 '24

CREDIT—*Continued*
First aid to injured business; work of the Red Cross. J: B. Payne. il Nation's Business 13:62+ N '25
Friendship and credits. Credit M 27:19+ Mr '25
Fundamental balance sheet; do you analyze it in extending credit? R. W. Babson. Bankers M 108:523-6 Ap '24
Getting profitable business from doubtful credit risks. R. M. Dulin. System 47:469-72+ Ap '25
Gold imports and exports in relation to banking credit in the United States. P. Jay. Econ W n s 29:221-4 F 14 '25
He taught salesmen the knack of helping customers pay up; passing of Frank C. Letts. Sales Management 6:1100+ Je '24
Helping customers along the second mile of business. A. Belden. Ptr Ink M 8:46+ F '24
How to borrow money. C. E. Woods. Am Mach 60:542 Ap 10 '24
Information from banks should be easily available. C: H. Hamilton. Credit M 27:17 Ag '25
Inquiring on farmers; six sources of credit information. C. R. Alley. Credit M 26:23+ Ag '24
Installment buying is discussed by credit men. Automotive Ind 53:671-2 O 15 '25
Is bank credit a misnomer? H. Bilgram. Am Ind 25:13-14 Ap '25
Life insurance a stabilizer. A. F. Maxwell. Credit M 26:7-8 F '24
Limitation of currency or limitation of credit. E. Cannan. Econ J 34:52-64; Discussion. J. M. Keynes. 65-8 Mr '24
Loose credits of distributing and refining divisions discussed. J. C. Chatfield. Nat Pet N 16:47-8 S 24 '24
Management ability helps with your banker, too. W. I. Bullard. Factory 33:505-6+ O '24
Management difficulties in small factories and their solution. H. W. Ross. Cassier's Ind Management 11:467-8+ N '24
Morgan's definition of credit. J. K. Drake. Credit M 27:7 Ag '25
New cash customers from poor credit risks. W. H. Steiner. Ptr Ink M 8:120+ Ap '24
On what should a country bank extend credit? F. S. Wettack. Bankers M 110:965-71; 111: 19-23, 171-4, 323-5 Je-S '25
Parts makers urged to scan credit risks more closely. Automotive Ind 51:711-13 O 23 '24
Pay salesmen as collectors. A. A. Grainger. Credit M 27:34 Ja '25
Progress of credit research by banks. J: N. Eaton. Comm & Fin Chr 117:2167 N 17 '23
Recent tendencies in credit relations between commercial paper houses and business concerns. S. P. Meech. Univ J of Business 2: 52-71 D '23
Relation of life insurance to credit. W. F. Gephart. Econ W n s 27:237-40 F 16 '24
Relation of your credit to your capital investment. C: Goodwin. J Elec 52:202-4 Mr 15 '24
Report of N.W.D.A. committee on credits and collections. Oil Paint & Drug Rep 106:23+ O 1 '24; 108:27+ O 15 '25
Retail credit at service stations can be made to pay. W. K. Halbert. Nat Pet N 17:83-4+ F 18 '25
Safety of retail credit structure must be guarded zealously. J. Dalton. Automotive Ind 50:903-5+ Ap 24 '24
Selling sails on credit. H. P. Preston. Credit M 27:9+ S '25
Service and bulk station credits most difficult to handle. M. E. Kleespie. Nat Pet N 16:91+ O 1 '24
Setting of credit limits. C. L. Jamison. Credit M 27:36+ Mr '25
Seven guides to sound financing. G: D. Gaw. il System 45:796-9+ Je '24
Some bank credit problems. Published in monthly numbers of Bankers magazine
Survey of credit situation. J. H. Tregoe. Comm & Fin Chr 118:2886 Je 14 '24
System in credit analysis. R. C. Daniel. Credit M 26:14-15 Je '24
Taking the guesswork out of business. W: R. Basset. Forbes 14:497-8 Jl 19 '24
Terms and discount on gasoline. W. Z. Brown. Nat Pet N 16:94+ N 12 '24
Use and abuse of credit in the oil industry. J. W. Hallman. Nat Pet N 16:29-31 N 19 '24
Use and occupancy insurance. B. L. Whorf. Credit M 26:16+ O '24; Same. Econ W n s 28:599-600 O 25 '24
Use and occupancy insurance in relation to commercial credit. W. W. Ellis. Econ W n s 27:710 My 17 '24; Same. Credit M 26: 17 My '24
Use less credit than you can get. il System 46:434-5 O '24
Use of bank loans to finance a new product. S. P. Meech. Univ J of Business 2:211-15 Mr '24
Use of ratio of past dues to outstandings in the control of credits. H: Krisch. Credit M 26:12-13 My '24
What advertising can do for commercial credit. J. R. Sprague. Ptr Ink M 10:41-2+ My '25
What do you know about your customers' business? J. R. Sprague. Ptr Ink M 8:29-30+ Mr '24
What says the law on the bank credit? A. F. McCarty. Burroughs Clearing House 9:9+ Ap '25
When an advertising agent wants to borrow money at the bank. Ptr Ink 125:41-2+ N 29 '23
Where small credits are granted successfully. J. Heywood. Forbes 16:101-3 My 1 '25
Which please credit to our account. System 47:310 Mr '25
Why the banker says yes. System 48:425-7 O '25
Will you compromise? H. M. Eaton. Credit M 7:32+ Je '25

See also Acceptances; Adjustment bureaus; Advertising and bankers; Agricultural credit; Balance sheets; Banks and banking; Billing; Charge account (retail trade); Collecting of accounts; Debtor and creditor; Finance companies; Financial statements; Instalment plan; Intermediate credit banks; Letters of credit; Loans; Securities; *also* Institute for research in land economics and public utilities

Bibliography

Credit and sales and advertising closely related. Ptr Ink 126:77-8 F 28 '24

CREDIT, Foreign
Credit difficulties biggest obstacle in trade with China. C: E. Guest. Sales Management 9:222 Ag 22 '25
Exporting machinery on credit. W. H. Rastall. Am Mach 62:965-8 Je 18 '25; Same abr. Iron Tr R 76:1572-4 Je 18 '25
Financing agricultural exports from the United States. G: W. Edwards. U S Bur For & Dom Com Trade Information Bul 241:1-46 '24
Foreign credit facilities in the United Kingdom. L. R. Robinson. 229p Longmans '23
Foreign credit practices. J. L. Thompson. Credit M 26:14+ My '24; Abstract. World's Markets 15:9-10 My '24
Increasing foreign trade. W. S. Swingle. Credit M 7:16 Je '25
Sources of foreign credit information. A. S. Hillyer. U S Bur For & Dom Com Trade Information Bul 292:1-46 '24
Who should handle foreign credits? O. T. Erickson. System 46:53+ Jl '24

CREDIT, International
International trade finance. G: W. Edwards. 495p Holt '24

See also Finance, International

CREDIT associations
How the county Credit bureau works. W. E. Carter. Bankers M 109:835-7 O 31 '24; Same abr. Am Bankers Assn J 17:272 O '24
Lowering the cost of money. H. Bilgram. Am Ind 25:13-15 Jl '25

See also Credit unions

CREDIT departments
Credit departments merge; Kardex and Rand. W: Gregg. Credit M 27:8 Je '25

CREDIT departments—*Continued*
Credit man's opportunities. E: M. Skinner. Ptr Ink M 9:25-6+ S '24
Criticism of a criticism of the credit man. H. T. Fulton. Ptr Ink 130:33-4+ F 26 '25
Criticism of the credit man. B. H. Blanton. Ptr Ink 130:17-20 F 5 '25
Decentralization of credit and collection control. Harvard Business R 2:240-1 Ja '24
Filing problems solved. E: T. Fanning. Credit M 26:11+ My '24
Is the credit department an asset or a liability? J. W. Hallman. Management & Adm 8:177-9 Ag '24; Same. Paper Tr J 79:55-6 S 4 '24
Office mechanism. I: Deutsch. Credit M 27: 12 Ja; 14-18 F; 12-16+ Mr '25
Organizing the credit department. J. W. Hallman. 80p Ronald press '24
Prevent commercial failure. E. G. Olney. Credit M 27:30-1 Ag '25
Relation of sales to credit department. F. L. Miller. Nat Pet N 17:44-6 Mr 4 '25
Ways of the credit department. F. L. Beach. Burroughs Clearing House 9:12-14+ S '25
We tightened our collections—yet increased sales 50%. C: L. Davies. System 47:752-5+ Je '25
Why not abolish the credit department? Ptr Ink 130:3-4+ Ja 1 '25
Why tempt the sales manager? J. W. Hallman. Credit M 26:18+ Ap '24
Winning back customers lost by the credit department. E. Wolff. Ptr Ink 125:3-4+ N 8 '23

Service

Better retail merchants; how shall credit men help them? G: O. Jones, jr. Credit M 27: 43 Ja '25
Constructive credits. W. P. Cassel. Credit M 27:14+ Ag '25
Credit manager's service and his relationship to customer. J: S. Wertz. Nat Pet N 16:81 D 3 '24
Helping hardware retailer; jobber's credit man collects monthly reports. H. F. Barker. Credit M 27:20 Ja '25

CREDIT guides
Interpretation of credit ratings. Bradstreet's 53:609 S 19 '25

CREDIT insurance. See Insurance, Credit

CREDIT interchange bureau
Avoided loss of $920. B: E. Cushing. Credit M 27:13 F '25

CREDIT interchange reports
Credit interchange reports; comparative study of them is highly essential. W. C. Schluter. Credit M 27:7+ S '25

CREDIT men
Before the first convention. R: T. Baden. Credit M 7:23 Je '25
The part you can play. W: J. Donovan. Credit M 27:9+ Jl '25

See also Credit departments

Salaries

Cash value of special training; salary increases of National institute of credit associates. W: Gregg. Credit M 26:7 D '24

CREDIT unions
Cooperative legislation in the United States. Monthly Labor R 20:420-5 F '25
Credit union—a crusader against usury. E: A. Filene. Am Bankers Assn J 17:439+ Ja '25
Credit union primer. A. A. Ham and L. G. Robinson. Rev. ed. 81p Russell Sage foundation, New York '23
Financial cooperatives which reach individuals with the smallest capital accumulations. Index p 6-7 Je '25
Ocean credit union formed by marine engineers. B. L. Todd. il Marine Eng 29:6-7 Ja '24
Our workers organize a credit union. H. K. Brooks. il System 48:299-301 S '25
Statistics of certain American credit societies, 1921 and 1922. Monthly Labor R 19:1173 N '24

CREMATION
Cremation society of England. il Nation's Health 7:420-1 Je '25

CREOSOTE
Creosote helps to save forests. R: V. Look. Can Eng 46:154 Ja 15 '24
Creosote oil analysis. L. Y. Dyrenforth. Ind & Eng Chem 16:698 Jl '24
Creosoted timber coaling stations. H. McDonald. Eng & Contr (Ry) 60:1306 D 19 '23
Creosoted timber highway bridge over Mullica river. il diags Eng & Contr (R & S) 64:1001-3 N 4 '25
Creosoted trestle burns without damage. il Ry R 76:1111 Je 13 '25
Fire hazard of treated timber. C. S. Heritage. Ry Age 77:756-7 O 25 '24
How wood is treated. il Eng & Contr (Ry) 61:815-17 Ap 16 '24

See also Wood preservation

CREOSOTED wood. See Wood preservation

CREPE
Causes of damages in crepe fabrics. J. Chittick. Textile World 65:2535+ Ap 12 '24
Why crepes shrink after washing. Textile World 66:1903 O 4 '24

CRÊPE de chine
Finishing crêpe de chine. J. Chittick. Textile World 68:1171 Ag 29 '25

CRESAURIN. See Trimethyl-aurin

CRESOL
Binary system consisting of ortho-cresol and para-cresol. A. E. Hill and I. Mosbacher. Am Chem Soc J 47:2544-5 O '25
Case of cresylic acid; a tariff anomaly. T. H. Davis. Chem & Met Eng 30:505-7 Mr 31 '24
Continuous causticising and cresylic acid; abstract. Walmsley and Stewart. Soc Chem Ind J (Chem & Ind) 43:251-2 Mr 7 '24
Cresylic acid. L. A. Watt. Chem Age 33:9-10 Ja '25
Cresylic acid depressed on larger stocks, 1924. Chem & Met Eng 32:137 Ja 19 '25
Decision places cresylic acid on dutiable list. Chem & Met Eng 31:868 D 1 '24
Increased solubility of phenolic substances in water on addition of a third substance. C: R. Bailey. Chem Soc J 123:2579-90 O '23
Substituted carbonates derived from *p*-cresol. R. H. Griffith. Chem Soc J 125:2625-8 D '24
Sulphonation of *m*-cresol and its methyl ether. R. D. Haworth and A. Lapworth. Chem Soc J 125:1299-1307 Je '24
Tariff board reports phenol-cresol survey. Oil Paint & Drug Rep 105:19 Ja 21 '24
Vapor composition relationships in the systems phenol—water and phenol—cresol. F. H. Rhodes, J. H. Wells and G. W. Murray. diag Ind & Eng Chem 17:1199-1201 N '25

CRESOL red. See Cresolsulfonephthalein

CRESOLSULFONEPHTHALEIN
Dimethyl and diethyl ethers of phenolsulfonephthalein and of ortho-cresolsulfonephthalein. W. R. Orndorff and C. V. Shapiro. Am Chem Soc J 46:2856-60 D '24
Salt error of cresol red. W: D. Ramage and R. C. Miller. Am Chem Soc J 47:1230-5 My '25

CRESOL-TETRACHLOROPHTHALEIN
Ortho-cresol-tetrachlorophthalein and some of its derivatives. E. L. Arnold. Am Chem Soc J 46:489-93 F '24
Ortho-cresol-tetrachlorophthalein, some of its derivatives, and iso-ortho-cresol-tetrachlorophthalein. W. R. Orndorff and M. S. Patel. Am Chem Soc J 47:863-7 Mr '25

CRESYLIC acid. See Cresol

CRIBS
Timber cribs floated to place for bridge piers at Portland, Ore. il diag plan Eng N 95: 584-5 O 8 '25

CRIBS, Concrete
Concrete cribbing replaces wall. R. L. Dyke. il Eng & Contr (G C) 64:629-30 S 16 '25
Massey reinforced concrete cribbing. diags plans Eng & Contr (Equip R) 62:961-2 O 29 '24

CRIBS, Concrete—*Continued*
New concrete cribbing looks like solid wall. A. N. Laird. il diags Ry Age 78:1034-5 Ap 25 '25
Precast units in railway grade elimination work. il Concrete 27:16-17 Jl '25

CRIME and criminals
Business joins the war on crime. F. S. Tisdale. il Nation's Business 13:22-4 O '25
Chemistry and the detection of crime. W. Derome. Can Chem & Met 9:33-5 F '25
Crime as a medical problem. A. L. Jacoby. Nation's Health 6:534-6 Ag '24
Criminal as an inventor. E: H. Smith. il Sci Am 130:376-7+ Je '24
Every crime is entrenched behind a lie. T. White. il Sci Am 133:298-9 N '25

See also Burglary; Embezzlement; Forgery; Jails; Theft

CRIPPLE Creek
Cripple Creek: an inside story. N. E. Guyot. il Eng & Min J 118:933-7, 965-70 D 13-20 '24

CRIPPLES
Crippled children in Chicago. map Nation's Health 7:355-6 My '25
Teaching crippled children how to live. P. T. Slayback. il Nation's Health 6:838-40 D '24

See Artificial limbs; Disabled—Rehabilitation

CRISTOBALITE
Crystal structure of the high temperature form of cristobalite (SiO_2). R. W. G. Wyckoff. Am J Sci 5th ser 9:448-59 Je '25
Devitrification in a lime-flint glass tank. A. R. Payne. Am Cer Soc J 7:271-3 Ap '24

CRITICAL constants
Molecular association of liquids and highly-compressed gases. E. E. Walker. Philos Mag 6th ser 47:111-26 Ja '24
Review of the critical constants of various gases. S. F. Pickering. J Phys Chem 28:97-124 F '24

CRITICAL point
Anhysteretic qualities of iron and nickel and the energy change at the critical temperature. J. R. Ashworth. Philos Mag 6th ser 47:848-59 My '24
Putting heat in the bank; thermal critical points, their relation to the heat treatment of steel. A. L. Collins. Sci Am 131:318+ N '24

See also Thermal analysis

CRITICAL solution temperature
Influence of a third substance on the critical solution temperature of phenol and water. J: Duckett and W: H. Patterson. J Phys Chem 29:295-303 Mr '25

CROCKER brothers
Merging of Eastern iron merchants upsets traditions of trade. E. C. Kreutzberg. Iron Tr R 76:1260-1 My 14 '25

See also Rogers, Brown and Crocker bros., inc.

CROCODILES, Fossil
Bridger crocodiles. E: L. Troxell. bibliog diags Am J Sci 5th ser 9:29-72 Ja '25
Thoracosaurus, a cretaceous crocodile. E: L. Troxell. il Am J Sci 5th ser 10:219-33 S '25

CRODON. See Chromium plating

CROP insurance. See Insurance, Agricultural

CROP reports
Crop reporting by airplane. O. M. Kile. il Sci Am 131:22-3 Jl '24
Fact and fiction in government crop estimates. T. H. Price. Comm & Fin 14:1510-11 Ag 5 '25
Increasing sales with crop reports and forecasts. Ptr Ink 126:33-4+ Ja 31 '24
Secret of the crop report. S: A. Jones. Am Bankers Assn J 17:138-40 S '24

See also Cotton—Statistics

CROPS
Crops and crop values. Bradstreet's 52:813 D 20 '24
Crops and prosperity. Moody's Inv Serv 17: 198-9 Je 11 '25
Crops in 1924. Fed Res Bul 10:765-8 O '24
Department of agriculture's estimates of the yields and values of the crops grown in the United States in 1924. Comm & Fin Chr 119: 2818-19 D 20 '24; Excerpts. Econ W n s 28: 877-8 D 20 '24
Final report of the Agricultural department on the crops of 1923. Comm & Fin Chr 117: 2706-7 D 22 '23
Harvest year. Bradstreet's 52:733 N 15 '24
Harvests in 1923. Comm & Fin Chr 118:250-2 Ja 19 '24
Increase in farm crop value exceeds freight charges. Ry Age 76:225-6 Ja 19 '24
Most staple crops equal to or larger than year ago. Bradstreet's 52:589 S 13 '24
Poor crop reports confirmed. Bradstreet's 52: 381 Je 14 '24
Smaller production of many crops in 1925. Manuf Rec 88:64-5 Jl 16 '25
Soviet Russia's grain crops in 1923. Comm & Fin Chr 118:2511 My 24 '24
Spotted crop conditions on August 1. Bradstreet's 53:529 Ag 15 '25
World's crops in 1924. Comm & Fin Chr 120: 523-4 Ja 31 '25
World's crops situation. Comm & Fin Chr 121:782-3 Ag 15 '25
Year's uneven harvests. Bradstreet's 53:673 O 17 '25

See also Flaxseed

Cost

See Farm produce—Cost of production

CROSS-connections. See Water distribution

CROSS ties. See Railroad ties

CROSS word puzzles
Ask the proofreader about word puzzles! E: N. Teall. Inland Ptr 74:884-5 Mr '25

See also Advertisements—Cross word puzzles

CROSSHEADS. See Locomotives—Crossheads

CROUSE, Huntington Beard, 1872-
Portrait. Elec W 83:222 F 2 '24

CROWDS
Panic! possibilities of disasters in lower New York. J. H. Collins. il diags Sci Am 133:149-51 S '25

CROWLEY, Patrick Edward, 1864-
Pat Crowley, of the New York Central. E: Hungerford. il Nation's Business 12:19-21 S '24
To head New York Central. por Ry Age 76: 942-3 Ap 12 '24; Comm & Fin 13:747 Ap 16 '24

CRUCIBLES
Graphite-silicon carbide crucibles. Chem & Met Eng 30:480-1 Mr 24 '24
Graphites for brass-melting crucibles. R. T. Stull and L. E. Geyer. Metal Ind 21:477-8 D '23; Discussion. 22:59 F '24
Laboratory production of pure magnesia ware. R. F. Mehl, J. L. Whitten and D. P. Smith. Ind & Eng Chem 17:1171-2 N '25
Long lived crucibles. il Metal Ind 23:428 O '25
Manufacture of crucibles in 1923. Iron Age 114:20 Jl 3 '24
Permanent filter mats in Gooch crucibles. O. R. Sweeney and G. N. Quam. Am Chem Soc J 46:958-60 Ap '24
Studies graphite for steel crucibles. R. T. Stull and G. A. Bole. Iron Tr R 74:487-8 F 14 '24; Same cond. Iron Age 112:1664-5 D 20 '23
Use of iron or nickel crucibles for alkali determinations. A. W. Epperson and R. B. Rudy. Ind & Eng Chem 17:35 Ja '25

Storage

Storing crucibles. J. Bartley. Metal Ind 22:98-9 Mr '24

CRUSHED stone. See Stone, Crushed

CRUSHING
Bentonite helps solve problem in grinding asphalt. H. S. Spence. Chem & Met Eng 30:986 Je 23 '24
Crushing and screening plant. il Can Eng 48:369 Mr 31 '25

CRUSHING—*Continued*
Crushing 2,500 tons of rock per shift at Corona, Calif. A. W. Allen. il diag Eng & Min J 116:887-90 N 24 '23
Dust control in crushing plants important. G: E. Lynch. Eng & Min J 117:165-7 Ja 26 '24
Grinding clays. D. Brown. il Brick & Clay Rec 64:734-6 My 13 '24
Grinding 1,500 tons of shale daily. il plan Brick & Clay Rec 67:38-9 Jl 7 '25
Model crushing plant at Douglas, Arizona. G: J. Young. il diags Eng & Min J 120:653-7 O 24 '25
Modern stone crushing plant at Dundas, Ont. il plan Can Eng 46:141-5 Ja 15 '24
New Cornelia concentrating mill at Ajo, Arizona. H. K. Burch. flow sheets il diags plans Eng & Min J 118:806-21 N 22 '24
New rock crushing plants of Southern Pacific Ry. il Eng & Contr (Ry) 61:1113-15 My 21 '24
Oil engines in rock-crushing plants. il Power 60:12-13 Jl 1 '24
Pulverizing fertilizer ingredients. L. H. Sturtevant. il Chem & Met Eng 30:193-5 F 4 '24
La standardisation des tissus métalliques; unification des diagrammes de broyage. C. Ratel. diags Chimie & Ind 12:16-30; 13:552-9 Jl '24, Ap '25
United Verde completes model crushing plant. G: J. Young. flow sheet il diags plan Eng & Min J 117:396-400 Mr 8 '24

See also Coal crushers; Crushing machinery; Gold milling; Ore treatment; Screening; Stone, Crushed

Cost

Crushing and grinding costs. T. Fuwa. Chem & Met Eng 31:268-71 Ag 18 '24

CRUSHING machinery
American chip crushing machine. il diag Mach 30:557-8 Mr '24
Care and operation of a dry pan. A. F. Greaves-Walker. diags Brick & Clay Rec 67: 40-3 Jl 7 '25
Continuous grinding. J. F. Heaney. il diag Paper Tr J 81:60-4 Jl 2 '25
Continuous grinding in the ceramic industry. il Chem & Met Eng 30:783-4 My 19 '24
Crushers used in chemical industry. W. T. W. Miller. Chem Age (Lond) 12:297-8 Mr 28 '25; Discussion. 12:328-9 Ap 4 '25
Crushing and grinding. S. G. Ure. il diags Soc Chem Ind J (Chem & Ind) 43:1144-52; 44:321-7, 349-53, 551-9 N 21 '24, Mr 27-Ap 3, My 29 '25
Crushing and grinding costs. T. Fuwa. Chem & Met Eng 31:268-71 Ag 18 '24
Crushing and grinding machinery. H. Seymour. 143p Van Nostrand '24
Crushing metal turnings to shoveling size. il Ry R 75:926-7 D 6 '24
Crushing stringy turnings. il Iron Age 113:713 Mr 6 '24
Design of crusher feed gate. H. H. Hunner. diags plan Eng & Min J 119:1055-6 Je 27 '25
Development of equipment for making ground wood pulp. J. F. Clerc. il diags Chem & Met Eng 32:416-22 Ap '25
Developments in dry pan construction. P. B. Reed. diags Brick & Clay Rec 65:322-3 S 2 '24
Developments in grinding machinery. diags Eng & Min J 117:904-6 My 31 '24
Equipping the one-man mill. D. Lay. il diag Eng & Min J 118:245-9 Ag 16 '24
Fuel tests of rock crushing plants. il Ry R 74:805-7 My 3 '24
Inexpensive laboratory mill for grinding dried fruits and similar materials in the presence of a liquid. R. A. Dutcher and J: F. Laudig. il diag Ind & Eng Chem 16:126-7 F '24
MacDonald cubes as a grinding medium. D. H. Fairchild. il Eng & Min J 117:865-6 My 24 '24
Magazinschleifer und stetige schleifer. F. Hoyer. il diags Zeit Ver Deutsch Ing 68:757-60 Jl 19 '24
Marco combined grinder and screen. diags Engineer 140:461 O 30 '25
Modern grinding mills. il Chem & Met Eng 31: 938 D 15 '24
New operating methods in calcining and grinding gypsum. A. W. Allen. il diag plan Chem & Met Eng 29:919-20 N 19 '23
New type magazine grinder. diags Paper 34: 1188-93 O 16 '24
Northern bark press. il Paper Tr J 79:47 D 25 '24
Operating the dry pan economically. il Brick & Clay Rec 65:22-3 Jl 8 '24
Origin of the Hardinge mill. J. C. Farrant. il Chem Age (Lond) 12:98-101 Ja 31 '25
Peripheral-discharge cylindrical mills. A. W. Allen. il diags Eng & Min J 117:325-8 F 23 '24
Planning an efficient rock pulverizing unit. L. H. Sturtevant. il diags Coal Age 26:647-9 N 6 '24
Pocket grinders vs. magazine grinders. T: J. Keenan. Paper 34:1088-9 O 2 '24
Production and use of rock dust. R. Reddie. il diags Min Cong J 11:547-53+ N '25
Raymond system of grinding and air separation. C. S. Messinger. Chem Age (Lond) 12:296-7 Mr 28 '25
Replacing roll shells. il diag Eng & Min J 120:697 O 31 '25
Rubber grinding mill linings and rubber as a material to resist abrasion. B. W. Rogers. Am Cer Soc J 8:326-8 My '25
Selecting the preliminary crusher. H. Copping. il Brick & Clay Rec 66:370+ Mr 3 '25
Single roll crusher. il Chem & Met Eng 32: 395 Mr '25
Vickers' gyratory crusher at the British Empire exhibition. il diag Engineering 117: 606 My 9 '24
Waste metal crusher. il Elec Ry J 64:850 N 15 '24
Why do preliminary crushing? il Brick & Clay Rec 66:983-6 Je 23 '25

See also Ball mills; Coal breakers; Coal crushers; Crushing; Gold milling; Ore treatment; Pulverizers; Rolls (crushing machinery); Tube mills

CRYOLITE
Equilibrium of the series cryolite-alumina. G. A. Roush and M. Miyake. bibliog Am Electrochem Soc Trans v 48 (preprint 10):99-103 S '25

CRYOSCOPY. See Freezing points

CRYOSTATS
Cryostat for precision measurements at temperatures extending to —180°. J. E. Walters and A. G. Loomis. diag Am Chem Soc J 47: 2302-6 S '25
Hydrogen liquefying cycle and cryostat for the maintenance of low temperatures. W. M. Latimer, R. M. Buffington and H. D. Hoenshel. diag Am Chem Soc J 47:1571-6 Je '25

CRYSTAL detectors. See Radio detectors

CRYSTAL oscillators. See Oscillators, Crystal

CRYSTALLIZATION
Action of heat on the acids obtained from French and American rosins by crystallisation. E. Knecht. Soc Dyers & Col J 39:338-40 N '23
Bendigo problem and its bearing on force of crystallization. F. L. Stillwell. diags Econ Geol 18:506-10 Ag '23; Discussion. E. Y. Dougherty. 19:286-8 Ap '24
Crystallization of heavy liquors. N. Titlestad. diag Chem & Met Eng 30:674 Ap 28 '24
Crystallizing point of paraffin wax. A. P. Bjerregaard. Ind & Eng Chem 17:507 My '25
Effect of various factors upon the velocity of crystallization of substances from solution. J: D. Jenkins. diags Am Chem Soc J 47: 903-22 Ap '25
Equilibrium in the system: urea, methyl alcohol. J. H. Walton and R. V. Wilson. Am Chem Soc J 47:320-3 F '25
Mechanical crystallisation. H. Griffiths. il diags Soc Chem Ind J 44:7-18 Ja 9 '25; Abstract. Chem Age (Lond) 11:442-3; Discussion. 443-4 N 1 '24

CRYSTALLIZATION—*Continued*
Mechanism of replacement and recrystallization. E. E. Fairbanks. bibliog Econ Geol 20:470-84 Ag '25
Mechanism of the formation of malachite from basic cupric carbonate. J. R. I. Hepburn. il Chem Soc J 127:1007-13 My '25
Method of getting large single crystals of metals. L. Obreimow and L. Schubnikow. J Fr Inst 199:106 Ja '25
Note cast columnar structure. R. J. Anderson. il diags Foundry 53:20-4 Ja 1 '25
Nouveau procédé industriel de cristallisation. I. Isaachsen and F. Jeremiassen. diags Chimie & Ind 13:202-8 F '25
Production of large crystals by annealing strained iron. C. A. Edwards and L. B. Pfeil. bibliog Iron & Steel Inst J 109:129-47, pl 6-11 no 1 '24; Same cond. Engineering 117:651-4, 687-8 My 16-23 '24; Discussion. Iron & Steel Inst J 109:148-58 no 1 '24; Engineer 137:537 My 16 '24
Purification of phosphoric acid by crystallization. W: H. Ross, R. M. Jones and C. B. Durgin. Ind & Eng Chem 17:1081-3 O '25
Recrystallization phenomena; aluminum. E. Wetzel. Brass W 20:335-7 O '24
Die rekristallisation des elektrolyteisens. P. Oberhoffer and W. Oertel. diag Stahl & Eisen 44:560-1 My 15 '24
Rekristallisation nach warmverformung. H. Hanemann and F. Lucke. Stahl & Eisen 45: 1117-22 Jl 9 '25
Rekristallisationserscheinungen an dauerbeanspruchten stählen. W. Riede. il Stahl & Eisen 44:880-3 Jl 24 '24
Rhythmic crystallisation of undecoic acid. W. E. Garner and F. C. Randall. il Chem Soc J 125:369-72 F '24
Using refrigeration for removing salts from solution. H. J. Macintire. diag Chem & Met Eng 31:229-30 Ag 11 '24
Verformen und rekristallisieren. F: Körber. diags Stahl & Eisen 45:217-23, 261-5, pl 5-6 F 12-19 '25

See also Solutions, Solid

CRYSTALLIZATION, Heat of
Alternation in the heats of crystallisation of the normal monobasic fatty acids. W. E. Garner and F. C. Randall. diag Chem Soc J 125:881-96 Ap '24

CRYSTALLOGRAPHY
Aqueous pressure of hydrated crystals; oxalic acid, sodium sulfate, sodium acetate, sodium carbonate, disodium phosphate, barium chloride. G. P. Baxter and W: C. Cooper, jr. Am Chem Soc J 46:923-33 Ap '24
Atomtheorie des festen zustandes. F. Zwicky. Elektrotech Zeit 46:992-3 Jl 2 '25
Carbon atom in crystalline structure. W: H: Bragg. J Fr Inst 198:615-25 N '24
Chemistry of solids. C. H. Desch. Soc Chem Ind J (Chem & Ind) 44:907-13, 924-9 S 11-18 '25; Same cond. Chem Age (Lond) 13:247, sup17-19 S 5 '25
Concerning the nature of things. W: Bragg. 250p Harper '25
Copper which bends only one way. il Foundry 52:929-30 D 1 '24; Same. J Fr Inst 199:138-9 Ja '25; Abstract. Management & Adm 8:650 D '24
Crystal structure and absorption spectra: the cobaltous compounds. R. Hill and O. R. Howell. diags Philos Mag 6th ser 48:833-47, pl 25 N '24
Crystal structure of barite. L. Pauling and P. H. Emmett. Am Chem Soc J 47:1026-30 Ap '25
Crystal structure of dolomite. R. W. G. Wyckoff and H. E. Merwin. diags Am J Sci 5th ser 8:447-61 D '24
Crystal structure of lithium potassium sulphate. A. J. Bradley. Philos Mag 6th ser 49:1225-37 Je '25
Crystal structure of magnesium fluoride. H. E. Buckley and W. S. Vernon. Philos Mag 6th ser 49:945-51 My '25
Crystal structure of magnesium stannide. L. Pauling. Am Chem Soc J 45:2777-80 D '23
Crystal structure of metallic arsenic. A. J. Bradley. Philos Mag 6th ser 47:657-71 Ap '24
Crystal structure of metallic tellurium and selenium and of strontium and barium selenide. M. K. Slattery. Phys R 25:333-7 Mr '25
Crystal structure of silver phosphate and silver arsenate (Ag_3XO_4). R. W. G. Wyckoff. diag Am J Sci 5th ser 10:107-18 Ag '25
Crystal structure of tetragonal lead monoxide. R. G. Dickinson and J. B. Friauf. diags Am Chem Soc J 46:2457-63 N '24
Crystal structure of the high temperature form of cristobalite (SiO_2). R. W. G. Wyckoff. Am J Sci 5th ser 9:448-59 Je '25
Crystal structure of the mercurous halides. R. J. Havighurst. il diags Am J Sci 5th ser 10:15-28 Jl '25
Crystal structure of titanium and chromium. R. A. Patterson. Phys R 26:56-9 Jl '25
Crystal structure of uranyl nitrate hexahydrate. L. Pauling and R. G. Dickinson. Am Chem Soc J 46:1615-22 Jl '24
Crystal structures of ammonium fluoferrate, fluo-aluminate and oxyfluomolybdate. L. Pauling. Am Chem Soc J 46:2738-51 D '24
Crystal structures of cesium tri-iodide and cesium dibromo-iodide. R: M. Bozorth and L. Pauling. Am Chem Soc J 47:1561-71 Je '25
Crystal structures of hematite and corundum. L. Pauling and S. B. Hendricks. diags Am Chem Soc J 47:781-90 Mr '25
Crystal structures of the rhombohedral forms of selenium and tellurium. A. J. Bradley. Philos Mag 6th ser 48:477-96, pl 10 S '24
Crystalline modifications of $NaAlSiO_4$. N. L. Bowen and J. W. Greig. il diags Am J Sci 5th ser 10:204-12 S '25
Crystallography of methyldiphenylmethyldichloramine. D. J. Fisher. diag Am J Sci 5th ser 10:201-3 S '25
Crystallography of searlesite. A. F. Rogers. diags plan Am J Sci 5th ser 7:498-502 Je '24
Crystals and the fine-structure of matter. F. Rinne. 195p Dutton '24
Density of rock salt calcite. O. K. DeFoe and A. H. Compton. Phys R 25:618-20 My '25
Development and formation of crystals. T. V. Barker. diags Soc Chem Ind J 44:19-27 Ja 16 '25
Effect of crystal structure on magneto-striction. C. W. Heaps. diags Phys R 22:486-501 N '23
Elementary crystallography. J: W. Evans and G: M. Davies. 141p Van Nostrand '24
Entropy of supercooled liquids at the absolute zero. L. Pauling and R: C. Tolman. Am Chem Soc J 47:2148-56 Ag '25
External forms of crystals. U. R. Evans. diags Soc Chem Ind J (Chem & Ind) 44:791-4, 812-15 Ag 7-14 '25
Graphical and tabular methods in crystallography, as the foundation of a new system of practice. T. V. Barker. 161p Van Nostrand '22
Graphical solution of certain ratios in temperature-concentration diagrams. C. O. Swanson. diags Am J Sci 5th ser 7:233-8 Mr '24
Gravitational anisotropy in crystals. P. R. Heyl. il diags U S Bur Stand Sci Pa 482: 307-24 '24
Kristallgitter und härtung. P. Ludwik. bibliog Zeit Ver Deutsch Ing 69:349-51 Mr 14 '25
Magnetostriction of a magnetite crystal. C. W. Heaps. diags Phys R 24:60-7 Jl '24
Making visible of rapid longitudinal vibrations produced by piezo-electric means in rods of crystals; abstract. E. Giebe and A. Scheibe. J Fr Inst 200:628 N '25
Natural history of crystals. A. E. H. Tutton. 287p Dutton '24; Review. Engineering 118: 631 N 7 '24
Optical constants of magnesium and zinc crystals. M. E. Graber. il diag Phys R 26: 380-9 S '25

CRYSTALLOGRAPHY—*Continued*

Orientation of crystals in metal test-pieces subjected to small strains followed by heat-treatment. C. F. Elam. Philos Mag 6th ser 50:517-20 S '25; Abstract. Engineering 120:368; Discussion. 363 S 18 '25; Discussion. Engineer 140:291 S 18 '25

Orthorhombic space group criteria and their application to aragonite. R. W. G. Wyckoff. Am J Sci 5th ser 9:145-75 F '25

Partitioning of space into enantiomorphous polyhedra. W. Barlow. il diags Philos Mag 6th ser 46:930-56 N '23

Photomicrographic evidence of the crystal structure of pure cerium. E. E. Schumacher and F. F. Lucas. il Am Chem Soc J 46:1167-9 My '24

Plasticity of single crystals. W. P. Davey. J Phys Chem 29:1211-14 O '25

Precision measurements of the lattice constants of twelve common metals. W. P. Davey. Phys R 25:753-61 Je '25

Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. bibliog diags Mech Eng 47:479-84 Je '25

Relation between the crystal structure and the constitution of carbon compounds; crystallography of further simple substitution products of methane. I. E. Knaggs. diags Chem Soc J 125:1441-4 Jl '24

Relationship between atomic numbers and the properties of ions in the crystal lattice. A. F. Scott. J Phys Chem 29:304-18 Mr '25

Some physical properties of nacreous sulphur. H. Whitaker. il J Phys Chem 29:399-405 Ap '25

Space group of barite ($BaSO_4$). R. W. G. Wyckoff and H. E. Merwin. Am J Sci 5th ser 9:286-95 Ap '25

Statement of the third law of thermodynamics. E. D. Eastman. Am Chem Soc J 46: 39-43 Ja '24

Strength of tungsten single crystals and its variation with temperature. diags Philos Mag 6th ser 48:229-49, pl 6-8 Ag '24

Structure of crystals. R. W. G. Wyckoff. 462p [bibliog. p. 423-49] Chemical catalog co. '24

Studies on the deformation of tungsten single crystals under tensile stress. Philos Mag 6th ser 48:800-19, pl 16-24 N '24

Surface-tension crystal v. saturated solution—the concentration cell: finely divided salt/supersaturated solution/saturated solution/large crystals. L. Soep. Philos Mag 6th ser 50:675-80 O '25

Les théories modernes relatives à la constitution de la matière. H. Abraham. Soc Ing Civils Bul 78:370-8 My '25

Thermal opalescence in crystals. C. V. Raman. il Sci Am 130:38 Ja '24

Thermo-electric effect in single crystal zinc wires. E. G. Linder. diag Phys R 26:486-90 O '25

Trend in the science of metals. Z. Jeffries. il Iron Age 113:720-2 Mr 6 '24

Vapor pressures of organic crystals by an effusion method. T: H. Swan and E: Mack, jr. bibliog diag Am Chem Soc J 47:2112-16 Ag '25

Work of the Davy-Faraday laboratory; the importance of crystal analysis. W: Bragg. Chem Age (Lond) 10:139 F 9 '24

See also Crystallization; Dimorphism; Mineralogy; Solutions, Solid; *also* names of minerals, e.g. Feldspar; Quartz

X ray studies

Abnormal reflexion of X-rays. J. H. Smith. Philos Mag 6th ser 49:192-4 Ja '25

Analysis of crystal structure by X-rays. W. H. Bragg. diags Soc Chem Ind J (Chem & Ind) 43:954-63 S 26 '24; Same. Engineering 118:349-50, 428-30 S 5, 19 '24

Application of X-ray crystal analysis to metallurgy. E. C. Bain. il Ind & Eng Chem 16:692-8 Jl '24

Application of X-ray crystallometry to the structure of nickel catalysis. G: L. Clark, W. C. Asbury and R. M. Wick. il diag Am Chem Soc J 47:2661-71 N '25

Atomic structure and the reflexion of X-rays by crystals. D. R. Hartree. Philos Mag 6th ser 46:1091-1111 D '23

Atomic structure factor in the intensity of reflexion of X-rays by crystals. D. R. Hartree. Philos Mag 6th ser 50:289-306 Jl '25

Crystal analysis by the diffraction of X-rays. R. A. Patterson. bibliog il diags Ind & Eng Chem 16:689-91 Jl '24

Crystal structure of cuprite and rutile. G. Greenwood. Philos Mag 6th ser 48:654-63 O '24

Crystalline structure of organic substances. W. H. Bragg. Engineering 117:211-12, 244-5, 274-5, 310-11 F 15-Mr 7 '24

Determination of the angle between the cleavage faces of calcite by use of X-rays. H: N: Beets. Phys R 25:621-4 My '25

Differentiation between mullite and sillimanite by their X-ray diffraction patterns. L: Navias and W. P. Davey. il Am Cer Soc J 8:640-7 O '25

Excitation, reflection, and utilization in crystal-structure analyses of characteristic secondary X-rays. G: L. Clark. Am Chem Soc J 46:372-84 F '24

Froth flotation explained by X-ray. G. G. McLachlan. diags Eng & Min J 120:408-9 S 12 '25; Discussion. 120:578, 662, 739 O 10, 24, N 7 '25

Grating space of calcite and rock salt. A. H. Compton, H. N. Beets and O. K. DeFoe. bibliog Phys R 25:625-9 My '25

Influence of temperature on the intensity of reflexion of X-rays from rocksalt. R. W. James. Philos Mag 6th ser 49:585-602 Mr '25

Inorganic crystals. W: L. Bragg. il J Fr Inst 199:761-72 Je '25

Intensity of the X-rays scattered from rocksalt. G. E. M. Jauncey and H. L. May. diag Phys R 23:128-36 F '24

Interpretation of intensity measurements in X-ray analysis of crystal structure. W. L. Bragg. Philos Mag 6th ser 50:306-10 Jl '25

Investigation of the alleged allotropy of zinc by X-ray analysis and a redetermination of the zinc lattice. W. M. Peirce, E. A. Anderson and P. Van Dyck. bibliog J Fr Inst 200: 349-61 S '25

Orientations of crystals in electro-deposited metals. R: M. Bozorth. il charts diag Phys R 26:390-400 S '25

Precision crystal measurements on some alkali and ammonium halides. R. J. Havighurst, E. Mack, jr. and F. C. Blake. Am Chem Soc J 46:2368-74 N '24

Precision X-ray measurements by the powder method. F. C. Blake. Phys R 26:60-70 Jl '25

Seeing the atoms with X rays. il Sci Am 132: 404+ Je '25

Space group of diopside [$CaMg(SiO_3)_2$]. R. W. G. Wyckoff and H. E. Merwin. il Am J Sci 5th ser 9:379-94 My '25

La spectrographie par les rayons X. W: Bragg. Chimie & Ind 13:731-4 My '25

Study of crystal structure and its applications. W. P. Davey. Gen Elec R 27:742-8, 795-802; 28:129-37, 258-65; 342-8, 586-99, 721-30 N-D '24, F, Ap-My, Ag, O '25 (to be cont)

Three examples illustrating X-ray methods of supplementing and correcting crystallographic data. K. Yardley. Philos Mag 6th ser 50:864-78 O '25

Use of monochromatic X-rays in the production of Laue diagrams, and the structure of mother-of-pearl. J. H. Shaxby. Philos Mag 6th ser 49:1201-6, pl 13 Je '25

Variation with temperature of the intensity of reflection of X-rays from quartz and its bearing on the crystal structure. R. E. Gibbs. J Fr Inst 199:719-20 My '25

X-ray diffraction patterns from crystalline and liquid benzene. E. D. Eastman. Am Chem Soc J 46:917-23 Ap '24

X-ray studies on the crystal structure of steel. A. Westgren and G. Phragmén. diags Iron & Steel Inst J 109:159-72, pl 12-14; Discussion. 173-4 no 1 '24

X-ray study of cyanite and andalusite. J: T. Norton. il Am Cer Soc J 8:636-9 O '25

CRYSTALLOGRAPHY—X ray studies—*Cont.*
X rays and crystal structure. W: H: Bragg and W: L. Bragg. 4th ed. 322p Harcourt '24

CRYSTALS
How to prevent the caking of crystals such as ammonium nitrate. H. J. Krase, J. Y. Yee and J. M. Braham. Chem & Met Eng 32:241-3 F 9 '25
Rectification of alternating currents by crystals. A. C. James. Philos Mag 6th ser 49:681-95 Ap '25

CRYSTODYNE principle
Crystodyne principle. il diags Radio N 6:294-5+ S '24

CUBA
Growing Pearl of the Antilles and its new president. M. Gonzalez. Am Ind 25:11-12 My '25

See also Automobile industry and trade—Cuba; Commercial law—Cuba; Electric industries—Cuba; Mines and mineral resources—Cuba; Paper industry and trade—Cuba; Petroleum—Cuba; Railroads—Cuba; Sugar industry and trade—Cuba; Tariff—Cuba

Commerce

Caribbean markets for American goods; Cuba. M. J. Meehan. U S Bur For & Dom Com Trade Information Bul 346:1-19 '25
Cuba as an American market. L. M. Perez. Am Ind 24:35-6 F '24
Cuban market for American foodstuffs. L. A. Wheeler. U S Bur For & Dom Com Trade Information Bul 325:1-44 '25
Foreign commerce of Cuba in 1923. Econ W n s 27:771 My 31 '24
Our relations with Cuba. Nat City Bank p 80 My '25

Economic conditions

Conditions in Cuba. Economist 99:725 N 8 '24
Cuban economic improvement. C. A. Livengood and F. E. Coombs. U S Bur For & Dom Com Trade Information Bul 191:1-8 '24
Cuba's economic conditions to-day. L. M. Perez. Am Ind 25:36-8 N '24
Cuba's political weakness and economic prosperity. H. H. Pike, jr. Comm & Fin 13:83-4 Ja 9 '24
We call on a good customer of yours; an interview with President Zayas of Cuba. M. Thorpe. il Nation's Business 12:24-6 Mr '24

CUBA cane sugar corporation
Annual report, 8th, for the year ended Sept. 30, 1923. Comm & Fin Chr 117:2321-2 N 24 '23
Annual report, 10th, for the year ended Sept. 30, 1925. Comm & Fin Chr 121:2268 N 7 '25

CUBA company
Annual report—year ended June 30, 1925. Comm & Fin Chr 121:2033 O 24 '25

CUBAN-American sugar company
Annual report—for year ended Sept. 30, 1923. Comm & Fin Chr 117:2663 D 15 '23
Annual report—for the year ended September 30, 1924. Comm & Fin Chr 119:2893 D 20 '24

CUGNOT, Nicolas Joseph, 1725-1804
Bicentenary of Nicolas Joseph Cugnot, 1725-1804. Engineering 119:264 F 27 '25

CULION leper colony
World's largest leper colony, Culion, V: G. Heiser. il Sci Am 133:236-7 O '25

CULTIVATORS
Turf cultivator. il Sci Am 130:409 Je '24

CULTIVATORS, Electric
Die einführung der elektrischen bodenfräse. A. Petri. il Elektrotech Zeit 46:405-7 Mr 19 '25

CULTIVATORS, Motor
Chewing up the soil for better crops; rototiller. il diag Sci Am 129:411 D '23

CULTURE media. See Bacteriology—Culture media

CULVERTS
Bridges and culverts for highways. H. H. Shaw. Can Eng 47:303-4 S 2 '24
Corrugated culverts in Texas. R. E. Caudle. Eng & Contr (Ry) 61:407-8 F 20 '24
Corrugated culverts on the Western Pacific. C. P. Gilmore. il Eng & Contr (Ry) 62:875-8 O 15 '24
Culvert repair and installation without tearing up road. il Eng & Contr (R & S) 62: 725-6 O 1 '24
Culvert replaced by tunneling. F. H. Cramer. diags Eng & Contr (Ry) 62:401-5 Ag 20 '24
Day labor, culverts and reinforcement. Pub Works 55:137-8, 266-8 Ap, Ag '24
Flow of water through pipe culverts. D. L. Yarnell, S. S. Woodward and F. A. Nagler. il diags Pub Roads 5:19-33 Mr '24; Excerpt. Brick & Clay Rec 64:651 Ap 29 '24
Flow through concrete and other culvert pipes. C. E. DeLeuw. Concrete 24:21 Ja '24
Important hydraulic factor in culvert design; discussion. F. A. Nagler; C. E. DeLeuw. Munic Eng 66:56-60 F '24
Iron culvert construction for passenger landing. C. A. Elliott. il Elec Ry J 66:408-9 S 12 '25
Lengthening pipe culverts in widened highways. C. C. Boyer. il Eng N 93:434-5 S 11 '24
Loads on culverts in fills; report of A.R.E.A. committee on masonry. Eng N 94:487 Mr 19 '25
Locating culvert pipe inlets and outlets. B. R. Linley. il Eng N 95:395 S 3 '25
Method of extending pipe culverts. E. T. Scott. il Eng & Contr (R & S) 62:759-60 O 1 '24
Method of lengthening corrugated pipe culverts in road widening. G. C. Boyer. Eng & Contr (R & S) 61:1023 My 7 '24
Methods of installing or replacing culverts and pipe lines under traffic. Eng & Contr (Ry) 60:1062 N 21 '23
Moving head walls of pipe culverts. Munic & Co Eng 67:106+ Ag '24
Part circle corrugated culverts in city drainage. il diags plan Eng & Contr (R & S) 62:499-502 S 3 '24
Part-circle culverts extensively used in California cities. il diags Eng N 94:802-3 My 14 '25
Pipe culverts placed by jacking. A. Griffin. il Eng N 92:864-6 My 15 '24
Placing pipe culverts. Eng & Contr (R & S) 63:1000-1 My 6 '25
Practical use of mathematics as aid to culvert headwall estimating. G: D. Burr. Eng N 94:161-3 Ja 22 '25
Roads use corrugated culverts under fills. il Ry Age 76:1359-63 Je 7 '24: Same. Eng & Contr (Ry) 62:1322-8 D 17 '24
Small bridges and culverts. H. McNichol. Can Eng 49:132 Jl 14 '25
Small bridges and culverts. A. Sedgwick. Can Eng 48:281-2 Mr 3 '25
Small bridges and culverts used in Ontario county. D. J. Kean. Can Eng 48:589 Je 16 '25
Solving the small bridge problem with large-diameter corrugated iron pipe. H. B. Kenney. il Good Roads 67:83-4 S '24
Special treatment of culverts to prevent blocking by storm water deposits; report of A.R.E.A. committee on roadway. il diags Eng & Contr (Ry) 61:619-25 Mr 19 '24; Same. Ry R 74:599-601 Mr 29 '24; Abstract. Eng N 92:535 Mr 27 '24
Spiral corrugated cast iron culvert pipe. il Ry R 76:544-5 Mr 14 '25
28 year old corrugated iron culvert. il Eng & Contr (R & S) 61:517 Mr 5 '24
Unique uses for American culverts in foreign lands. il Dun's Int R 44:60 S '24
Why is a headwall? Eng & Contr (R & S) 64:50-1 Jl 1 '25

CULVERTS, Concrete
Concrete work done in very cold winter weather. M. A. Burbank. il diag Ry R 73:755-6 N 24 '23; Same. Eng & Contr (Ry) 60:1318 D 19 '23

CULVERTS, Concrete—*Continued*
Construction of highway concrete structures. A. R. Carter. Eng & Contr (R & S) 61: 1232-3 Je 4 '24
Getting a good culvert job: staking and excavation, building forms, placing steel and concrete, finishing surfaces, removing forms. W. R. Hodge. il diags Concrete 25:42-7 Ag '24
Relation between the wall thickness and diameter of concrete culvert pipe for highway use. G. W. Hutchinson. Am Concrete Inst Pro 20:237-46; Discussion. 247-9 '24
Top slab of culvert carries walls of bank built over creek. N. H. Sturdy. il diag plan Eng N 94:988-9 Je 11 '25

CUMBERLAND road
National old trails road. J. M. Lowe. 247p J. M. Lowe, Kansas City, Mo. '24

CUNARD steamship company
Cunard steamship company, limited, 48th general meeting, Liverpool, April 1. Economist 100:671-2 Ap 4 '25

CUPOLA furnaces
Die abmessungen der kuppelöfen, ihr verhältnis zur grösse der koks- und eisensätze und ihr einfluss auf schmelzgang und koksverbrauch. A. Wagner. diags Stahl & Eisen 44:617-22 My 29 '24
Calculating cupola mixtures. B. Szöke. diags Iron Age 116:205-7+ Jl 23 '25
Cupola practice considered by A.F.A. Iron Tr R 77:1002-3 O 15 '25
Day at the cupola. A. R. Bartlett. diag Foundry 53:237-8 Mr 15 '25
Describes cupola reactions. J. Coll. Foundry 51:961-3 D 1 '23
Economical cupola melting. H. Van Aarst. diags Foundry 52:514-15 Jl 1 '24
Effect of variations in cupola practice on the life of the refractory blocks. J. T. MacKenzie. Am Cer Soc J 8:720-33 N '25; Same. Foundry 53:267-71 Ap 1 '25; Discussion. Am Cer Soc J 8:733-4 N '25
Erratic cupola practice causes trouble. Foundry 52:348 My 1 '24
How do you calculate the diameter and speed of fan driving pulleys for a cupola. Foundry 52:115 F 1 '24
Ein neuer ofen bauart Wüst zur veredelung von qualitätsguss. T. Klingenstein. diags Stahl & Eisen 45:1476-8, pl 10 Ag 27 '25; Abstract. Engineer 140:sup154-5 O 30 '25
Notes on cupola design. diags Engineer 140: 144-6 Ag 7 '25
Observes melting in cupola. J: Grennan. Foundry 51:908-10 N 15 '23
Peep into cupola when melting steel. J. Grennan. il Foundry 53:314-17+ Ap 15 '25
Preheat blast in new cupola. il diag Foundry 51:994-6 D 15 '23; Same. Iron Tr R 74:353-5 Ja 31 '24; Abstract. Mech Eng 46:94-5 F '24
Records show cupola control. S. J. Felton. Foundry 52:255-7 Ap 1 '24
Side-blast cupola in operation at Chicago. S. G. Werner. il diags Iron Age 112:1377-9 N 22 '23
Simplifying cupola mixtures. G: A. Drysdale. Foundry 52:433-4 Je 1 '24
Small cupola melts iron at rapid rate. Foundry 52:653 Ag 15 '24
Small hot-blast cupola furnace. Brass W 20: 42 F '24
Twin cupolas melt wheel iron. P. Dwyer. il diags plan Foundry 52:287-93+ Ap 15 '24
Utilizing the waste heat from the cupola; abstract. G. E. Booker. diags Mech Eng 46: 47-8 Ja '24
Die wärmewirtschaftliche einstellung des kuppelofens. E. Piwowarsky and F. Meyer. diags Stahl & Eisen 45:1017-22 Je 25 '25; Discussion. 45:1670-2 O 1 '25
Wirksamkeit der wassereinspritzungsvorrichtungen für die funkenkammern der kuppelöfen. diags Stahl & Eisen 44:1787-8 D 25 '24
See also Foundry practice

Charging
Charge cupolas mechanically. il plan Foundry 53:111-13 F 1 '25
Cupola charger saves $15,103.80 per year. R. J. Barr. Factory 35:225 Ag '25
Mechanical charging for a foundry cupola; hydraulic core remover. il Iron Age 114: 1397-8 N 27 '24
Roots cupola charging hoist data. Management & Adm 9:359 Ap '25
Roots' hoist for charging foundry cupolas. il Cassier's Ind Management 12:152-3 F '25

CUPRAMMONIUM. See Copper compounds

CUPRIC oxide. See Copper oxides

CUPRITE
Crystal structure of cuprite and rutile. G. Greenwood. Philos Mag 6th ser 48:654-63 O '24

CUPROUS oxide. See Copper oxides

CURBS
Combined curb and gutter work. il Concrete 27:33 Jl '25
Depressed concrete curbs for sheet asphalt surface. A. K. Hay. il diag Eng & Contr (R & S) 61:756-8 Ap 2 '24
Sidewalk and curb details. il diags Pub Works 55:39-43 F '24
Spader insures clean finish to curb built monolithically with pavement. R. R. Worsencroft. diag Eng N 94:738 Ap 30 '25

CURIE, Marie Sklodowska, 1867-
Portrait. Sci Am 130:157 Mr '24

CURIE, Pierre, 1859-1906
Pierre Curie. M. Curie. 242p Macmillan '23

CURLING of paper. See Paper—Curling

CURRENT indicators
New instruments and apparatus for surveys; current indicator. diag Eng & Contr (WW) 61:1087-8 My 14 '24

CURRENTS, Alternating. See Electric currents, Alternating

CURRENTS, Stray. See Stray currents

CURTAINS
Lace curtains. il diag Textile Inst J 15:P100-4 Ap '24
See also Car curtains

CURTISS aeroplane and motor company
Curtiss co. offers plant for McCook field. il diag Aviation 16:476-8 My 5 '24
Report for 1924. Aviation 18:346 Mr 30 '25

CURTISS exhibition company
Curtiss exhibition company in 1923. C. S. Jones. il Aviation 16:231-2 Mr 3 '24

CURVE plotting
Plotting of observations on curves and analysis of the curves. G. B. Upton. Sibley J 38:168-72+ O '24
See also Growth curves

CURVES
Curve problem met in land surveying. J: T. Ramson. Can Eng 46:430-1 Ap 15 '24
Nomogram for solution of vertical curves. M. P. Smith. chart Eng N 94:989 Je 11 '25
Reverse curve formula. H. G. Smith. Am Mach 62:570 Ap 9 '25; Discussion. 63:201, 442, 512, 662 Jl 30, S 10, 24, O 22 '25
Transition lemniscate. A. Llano. Eng N 92: 979-80 Je 5 '24; Discussion. 94:245-6, 408 F 5, Mr 5 '25
See also Arches; Parabola; Railroads—Curves and turnouts; Roads—Curves

CURVES, Quartic
Special quartic curve. E. J. McFarland. 400p Univ. of Calif. press, Berkeley '23

CUSTOM house, King's Lynn, Norfolk
Smaller civil architecture of England. R. W. Ramsdell and H. D. Eberlein. il diags Arch Forum 42:317-22 My '25

CUSTOMER ownership of utilities. See Public utilities—Securities

CUSTOMERS as stockholders
Customer ownership applied to bus line solves problem of public relations. il diag Bus Transportation 4:223-4 My '25
Customer ownership on the Pacific. S. E. Skelley. Am Gas J 123:288+ O 3 '25

CUSTOMERS as stockholders—*Continued*
Customer ownership plan for water companies. P. B. Niles. Eng & Contr (W W) 64:106-9 Jl 8 '25
Keeping customer owners interested. S. J. Ballinger. Am Gas J 123:173+ Ag 29 '25; Same abr. Elec W 86:128 Jl 18 '25
Popular ownership of property: its newer forms and social consequences. W: L. Ransom and P. T: Moon, eds. 198p Academy of political science, Columbia univ., New York '25; Excerpts. Nat City Bank p 10-14 Jl '25; Same. Econ W n s 30:42-5 Jl 11 '25; Review. N E L A Bul 12:233-4 Ap '25

CUSTOMS regulations. See United States—Custom-house

CUT glass
Building up business in cut glass. C: F. Davenport. il Am Exporter 94:47+ Mr '24

CUTCH
Cutch from the areca palm. C. D. Mell. il Textile Col 46:310-11+ My '24

CUTLER-HAMMER manufacturing company
Federal trade commission dismisses complaint against Cutler-Hammer mfg. co. Comm & Fin Chr 121:1996-7 O 24 '25

CUTLERY
Putting purpose into cutlery. P. Barlow. il Am Exporter 94:51+ My '24

Manufacture

Large uses of steel in small ways; knives and forks. il Iron Tr R 75:34 Jl 3 '24
Polishing in the cutlery industry. il diags Mach 32:217 N '25
Polishing stainless steel knives. O. A. Nierendorf. il Brass W 20:243-4 Jl '24

CUTTING machines
Buffalo forge co. improves line of bar cutters. il Iron Age 113:1720 Je 12 '24
Cutting tools made of cast iron. H. A. Freeman. diag Mach 31:129 O '24
Fretter tube-cutting machine. il Mach 31: 245 N '24
Machine for cutting helical grooves. M. Wright. il Am Mach 61:321-2 Ag 21 '24
Machine for cutting mule hide. W. W. Warner. il diags Ry Mech Eng 98:284-5 My '24
Tool and cutter grinding. H. Bentley. Cassier's Ind Management 12:457-8 S '25
Die untersuchung der dreharbeit. H. Klopstock. il diags Zeit Ver Deutsch Ing 69: 215-21, 311-14 F 21, Mr 7 '25; Abstracts (Investigations in turning and planing). Mech Eng 47:474-9 Je '25; Am Mach 62: 881-3 Je 4 '25
Wissenschaftliche gestaltung der werkzeuge. W. Hippler. diags Zeit ver Deutsch Ing 69: 227-33 F 21 '25

See also Chamfering machines; Cutting-off tools; Gear cutting machines; Milling cutters; Oil grooving machines; Paper cutters; Pipe cutting; Pipe cutting machines; Saws; Screw machines; Shears (machines); Thread cutting machines

Speed

Cutting speed conversion table; reference-book sheet. Am Mach 63:29, 515 Jl 2, S 24 '25
Cutting speeds of crank shapers. K. H. Crumrine. diags Mach 31:957-9 Ag '25

CUTTING of metals. See Electric cutting; Metal cutting; Oxyacetylene cutting

CUTTING-off tools
British wire-drawing and wire-working machinery. il diags Engineer 138:500-2 O 31 '24
Milband metal cutting-off machine. il Am Mach 61:362 Ag 28 '24
New cutting off machine. E. W. Mikaelson. il diags Iron Tr R 74:173-6 Ja 10 '24
Rod and wire cutting-off device. J: J. Borkenhagen. il diags Mach 30:463-4 F '24

CUTTING tools
Kango electric hammer; a new type. il diag Engineer 139:718 Je 26 '25; Engineering 119: 809 Je 26 '25; Automobile Eng 15:229 Jl '25; Electrician 95:154 Ag 7 '25; Elec R (Lond) 97:232-3 Ag 7 '25
Report on brass cutting tools. Metal Ind 23:234-5 Je '25

CYANAMIDE
Condensation of aromatic aminosulphonic acids with *iso*cyanic acid, phenylcarbimide, and cyanamide. J: R: Scott and J. B. Cohen. Chem Soc J 123:3177-91 D '23
Preparation and hydrolysis of substituted cyanamides; di-*n*-butylcyanamide and diallylcyanamide. E. B. Vliet. Am Chem Soc J 46:1305-8 My '24

See also Calcium cyanamide

Analysis

Determination of cyanamide. L. A. Pinck. Ind & Eng Chem 17:459-60 My '25

CYANIC acid
Constitution of carbamides; a delicate and trustworthy test for the regulation of cyanic acid. E. A. Werner. Chem Soc J 123: 2577-9 O '23

CYANIDE plants
Cyanide plants in Northern Ontario. Eng & Min J 119:933 Je 6 '25

Cost

Cost of the United Comstock cyanide plant. W. S. Palmer. Eng & Min J 117:51 Ja 12 '24

CYANIDE poisoning
Antidotes to cyanide poisoning. H. C. Jenkins. Eng & Min J 117:293 F 16 '24
Cyanidation and the poison hazard. Eng & Min J 116:927 D 1 '23

CYANIDE process
A.S. & R. subsidiary starts new 150-ton mill in Peru. A. B. Parsons. flow sheets il Eng & Min J 117:858-60 My 24 '24
Calcined dolomite as a substitute for lime in the recovery of gold and silver by the cyanide process. E. S. Leaver, C. W. Davis and J. A. Woolf. U S Bur Mines Rep of Invest 2648:1-7 O '24 (typew)
Changes in mill operation at the United Comstock. G: J. Young. Eng & Min J 118: 374 S 6 '24
Comparative test of cyanide of different grades. F. C. Bond. Eng & Min J 116:1112 D 29 '23
Continuous vacuum filters in cyaniding. B. D. Kelly. flow sheet Eng & Min J 118:569-73 O 11 '24; Discussion. 118:702-3, 1021-2 N 1, D 27 '24
Cyanidation of gold and silver ores of northern Ontario. C: Spearman. Can Chem & Met 9:55-9 Mr '25; Same. Soc Chem Ind J 44:174-8, 179-80 Ap 17-24 '25; Excerpt. Eng & Min J 119:930 Je 6 '25
Cyaniding silver ore at the Rosario mill. P. T. Bruhl. Eng & Min J 118:59 Jl 12 '24
Cyaniding silver ore at the Rosario mill. P. T. Bruhl and H. J. Mainell. flow sheets il Eng & Min J 120:85-90 Jl 18 '25
Design and operation of the United Comstock mill. B. P. Little. il diags Eng & Min J 117: 516-22, 559-64 Mr 29-Ap 5 '24
Early history of cyanidation. Eng & Min J 117:366 Mr 1 '24
How cyanidation was first applied to silver ores. B. MacDonald. Eng & Min J 119:1003-4 Je 20 '25
Intermittent agitation and decantation. L. P. Hills. flow sheet diag Eng & Min J 120:378 S 5 '25
Operations at the United Eastern mill. E. M. Bagley. il flow sheet Eng & Min J 119: 436-9 Mr 14 '25
Pachuca: home of the patio process. B. Burwell. il map Eng & Min J 118:725-30 N 8 '24
Rapid test for gold in cyanide solutions. Eng & Min J 120:580 O 10 '25
Treatment of flotation concentrate with strong cyanide solutions. P. T. Bruhl and F: C. Bond. Eng & Min J 117:164 Ja 26 '24
Use of dolomite in the cyanide process. Eng & Min J 119:442 Mr 14 '25

See also Gold metallurgy

CYANIDE process of hardening. See Case hardening

CYANIDES

Fixation of nitrogen as cyanide. R: Franchot. bibliog Ind & Eng Chem 16:235-8 Mr '24

Nitrides as a possible route to commercial production of cyanides. F. v. Bichowsky. flow sheet Chem & Met Eng 29:1098-1101 D 17 '23

Phase rule study of the cupro-, argento-, auro- and thallo-cyanides of potassium. H: Bassett and A. S. Corbet. Chem Soc J 125: 1660-75 Ag '24

Static potentials of copper in solutions of copper cyanide in sodium cyanide and in potassium cyanide, and of zinc in solutions of zinc cyanide in sodium cyanide. W. M. Walker, J. H. Sorrels and J. M. Breckenridge. Am Electrochem Soc Trans v 48 (preprint 12):113-24 S '25

See also Potassium ferricyanide; Sodium cyanide

CYANIDIN chloride

Synthesis of pyrylium salts of anthocyanidin type; the synthesis of cyanidin chloride and of delphinidin chloride. D: D. Pratt and R. Robinson. Chem Soc J 127:166-75 Ja '25

CYANINE dyes. See Dyes and dyeing—Chemistry

CYANINES

See Carbocyanines; Dicyanines

CYANITE

Changes in the constitution and microstructure of andalusite, cyanite, and sillimanite at high temperatures and their significance in industrial practice., A. B. Peck. il Am Cer Soc J 8:407-29 [bibliog. p. 428-9] Jl '25

Formation of mullite from cyanite, andalusite, and sillimanite. J. W. Greig. il diags Am Cer Soc J 8:465-83; Discussion. 483-4 Ag '25

X-ray study of cyanite and andalusite. J: T. Norton. il Am Cer Soc J 8:636-9 O '25

CYANO esters

Chemistry of the three-carbon system; tautomeric nitriles and cyano-esters. S. F. Birch and G: A. R. Kon. Chem Soc J 123: 2440-8 O '23

CYANOACETAMIDE

Condensation of aldehydes with cyanoacetamide. R. H. Curtis, J. N. E. Day and L. G: Kimmins. Chem Soc J 123:3131-40 D '23

CYANOACETIC acid

Condensation of aryldiazonium salts and of alkyl nitrites with certain derivatives of cyanoacetic acid. T: K. Walker. Chem Soc J 125:1622-5 Ag '24

Ionisation of two electrolytes in alcohol-water mixtures; influence of environment on ionisation. F. Bradley and W. C. M. Lewis. J Phys Chem 29:782-91 Jl '25

CYANOACETIC ester

Addition of cyano-acetic esters to esters of glutaconic and β-methylglutaconic acids. E. P. Kohler and G. H. Reid. Am Chem Soc J 47:2803-11 N '25

Preparation of cyanoacetic ester. (ethyl cyanoacetate). O. C. Stephens. Soc Chem Ind J 43:313-14, 327-8 O 17, N 14 '24

CYANOGEN

Vapor pressures of solid and liquid cyanogen. J: H. Perry and D. C. Bardwell. Am Chem Soc J 47:2629-32 N '25

Die zyanbildung beim hochofenprozess. H. Braune. Stahl & Eisen 45:581-2 Ap 16 '25

CYANOGEN chloride

Cyanogen chlorid fumigation at Canal Zone ports. W. C. Rucker. il Nation's Health 6: 387-9 Je '24

CYCLE airships. See Airships, Cycle

CYCLE cars

Cycle and motor-cycle show at Olympia. il Engineering 120:418-422-3 O 2 '25

Le cyclecar Benjamin. diags Génie Civil 85: 606-8 D 27 '24

Le XIXe salon de l'automobile et du cycle; véhicules de tourisme (Paris, 2-12 octobre 1924). G. Delanghe. il diags Génie Civil 85: 333-43 O 18 '24

CYCLEPLANE

Details of the Gerhardt cycleplane. il Aviation 15:554 O 29 '23

Requirements of a man propelled airplane; the Gerhardt cycleplane. M: B. Sellers. Aviation 15:608 N 12 '23; Same cond. Mech Eng 46:43 Ja '24

CYCLIC compounds

Chemistry of polycyclic structures in relation to their homocyclic unsaturated isomerides: orientation in the *gem*-dimethyl-*dicyclo*pentene series. R. C: Grimwood, C. K. Ingold and J. F. Thorpe. Chem Soc J 123:3303-10 D '23

Conditions underlying the formation of unsaturated and cyclic compounds from halogenated open-chain derivatives. W. Haerdi and J. F. Thorpe. Chem Soc J 127:1237-48 Je '25

Conditions underlying the formation of unsaturated and cyclic compounds from halogenated open-chain derivatives; products derived from halogenated α-methylglutaric acids. C. K. Ingold. Chem Soc J 127:387-98 F '25

Cyclotelluropentanediones and cyclotelluripentanedione dihalides. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:1601-7 Ag '24

Delta ketonic nitriles and their relation to cyclic compounds. E. P. Kohler and C: F. H. Allen. Am Chem Soc J 46:1522-34 Je '24

Formation and stability of associated alicyclic systems; the formation and disruption of dicyclic dihydroresorcinols; abstract. E. H. Farmer and J. Ross. Soc Chem Ind J (Chem & Ind) 44:332-3 Mr 27 '25

Influence of the pH upon the ultraviolet absorption spectra of certain cyclic compounds. W. Stenström and M. Reinhard. J Phys Chem 29:1477-81 N '25

New type of cyclic compounds. E. P. Kohler. Am Chem Soc J 46:503-17 F '24

Studies on reactions relating to carbohydrates and polysaccharides. H. S. Hill and H. Hibbert. Am Chem Soc J 45:3108-32 D '23

Studies on the reactions relating to carbohydrates and polysaccharides; synthesis and relative stability of cyclic acetals from 1,2- and 1,3-glycols. H. Hibbert and J: A. Timm. Am Chem Soc J 46:1283-90 My '24

Synthesis of cyclic polysulphides; condensation of dithioethylene glycol with benzylidene chloride. P. C. Ray. Chem Soc J 125: 1141-4 My '24

CYCLOHEPTANE

Formation and stability of *spiro*-compounds; further evidence for the multiplanar configuration of the *cyclo*heptane ring. J: W: Baker. Chem Soc J 127:1678-82 Jl '25

CYCLOHEXANE

Ring-chain tautomerism: the effect of the *cyclo*hexane nucleus on the carbon tetrahedral angle. E. W: Lanfear and J. F. Thorpe. Chem Soc J 123:2865-70 N '23

Spatial structure of *cyclo*paraffins; a new aspect of Mohr's theory and the isomerism of decahydronaphthalene. W. A. Wightman. Chem Soc J 127:1421-4 Je '25; Discussion. Soc Chem Ind J (Chem & Ind) 44:605-6 Je 12 '25

Study of the destructive distillation of coal. E. V. Evans. il diags Gas J (Lond) 165:550-9 Mr 5 '24

CYCLOHEXANONE

Some new derivatives of cyclohexanone. C. E. Garland and E. E. Reid. Am Chem Soc J 47:2333-40 S '25

CYCLOHEXYLIDENEAZINE

Action of hydrogen chloride on *cyclo*hexylideneazine and on *cyclo*pentylideneazine. W: H: Perkin, jr. and S. G. P. Plant. Chem Soc J 127:1138-41 My '25

CYCLONES
Sun spots and the frequency of tropical cyclones. S. S. Visher. Am J Sci 5th ser 8:312-16 O '24

See also Tornadoes

CYCLOPENTANE
Formation and stability of *spiro*-compounds; bridged *spiro*-compounds; from *cyclo*pentane. C. K. Ingold, E. W: Lanfear and J. F. Thorpe. Chem Soc J 123:3140-51 D '23

CYCLOPENTYLIDENEAZINE
Action of hydrogen chloride on *cyclo*hexylideneazine and on *cyclo*pentylideneazine. W: H: Perkin, jr. and S. G. P. Plant. Chem Soc J 127:1138-41 My '25

CYCLOPIDIUS
Leptauchenia and Cyclopidius. F. B. Loomis. il Am J Sci 5th ser 9:241-9 Mr '25

CYCLOPROPANE
Chemistry of the glutaconic acids; three-carbon tautomerism in the *cyclo*propane series. F. R. Goss, C. K. Ingold and J. F. Thorpe. Chem Soc J 123:3342-59; 127:460-9 D '23, F '25

CYLINDERS (engines, etc.)
Barnes honing machine no. 211. il Am Mach 62:863 My 28 '25; Iron Age 115:1632 Je 4 '25; Mach 31:825 Je '25
Cylinders for printing presses. F. H. Colvin. il Am Mach 63:351-2 Ag 27 '25
Design of air-cooled cylinders. C. F. Taylor. diags Aviation 18:634-6, 664-7 Je 8-15 '25; Abstract. Mech Eng 47:647 Ag '25
Do we want smooth cylinder walls? Am Mach 61:280, 838 Ag 14, N 27 '24
Early history of the cylinder boring machine. E. A. Forward. diags Engineer 138:686-7, 714-15 D 19-26 '24
Fabricating steel cylinder heads by the oxy-acetylene torch. il Am Mach 60:314 F 28 '24
Facts about honing cylinders. Am Mach 62: 437 Mr 12 '25
Fiat automobile production methods. J. A. Lucas and F. E. Bardrof. il Am Mach 61: 157-60 Jl 24 '24
H.M.S. Triumph and her cylinder liner. E. C. Smith. diag Engineer 139:498 My 1 '25
How and when to rebore ammonia compressor and steam engine cylinders. C. E. Anderson. Power 59:826 My 20 '24
How the American locomotive company machines cylinders and bushings. L. C. Morrow. il Am Mach 61:675-9 O 30 '24
Internal gauge for cylinders. il diag Engineering 119:163 F 6 '25
Locomotive cylinder performance. E. C. Poultney. Engineer 138:574-5, 602-4 N 21-28 '24
Machining Pierce-Arrow cylinders. C: B. Ekdahl. il diags Mach 31:968-72 Ag '25
Marine-cylinder job in a railroad shop. F. A. Stanley. il Am Mach 62:778-9 My 14 '25
Notes on cylinder honing. il Soc Auto Eng J 14:494-5 My '24; Same. Mach 30:826 Je '24
Operation of Diesel engines. R. Hildebrand. il diags Power 61:906-7 Je 9 '25
Operations in manufacturing air-brake pumps. il Am Mach 63:191-3 Jl 30 '25
Remove cores and adhering sand from automobile cylinder castings with vibrator. il Foundry 51:984-5 D 15 '23
Smooth cylinder bores. F. C. Hudson. Am Mach 62:466, 607 Mr 19, Ap 16 '25
Wear of cross-compound compressor cylinders. Ry Mech Eng 99:200, 324 Ap, Je '25

See also Pistons

Cleaning
Cleaning cylinders. Foundry 53:476a Je 15 '25
Cutting cleaning room costs. il Iron Age 116: 1-4 Jl 2 '25

CYMENE
Absorption spectra of certain derivatives of para-cymene. W. C. Holmes. Am Chem Soc J 46:631-5 Mr '24
Para-cymene studies; the bromination of 2-amino-para-cymene and certain new azo dyes. A. S. Wheeler and H. M. Taylor. Am Chem Soc J 47:178-84 Ja '25
Study of certain derivatives of para cymene, with special reference to possibilities of utilization. R. E. Sargent and F: W. Hibbard. Textile Col 47:561-5 S '25
Sulfonation of para-cymene. M. Phillips. Am Chem Soc J 46:686-94 Mr '24

CYSTEINE
New type of reduction-oxidation system: cysteine and glutathione. M. Dixon and J. H. Quastel. Chem Soc J 123:2943-53 N '23

CYTOSINE
Studies on catalysis; the behavior of the amino group when cytosine and nitro-uracil are reduced in the presence of colloidal platinum. E. B. Brown and T. B. Johnson. Am Chem Soc J 46:702-8 Mr '24

CZECHOSLOVAKIA
Slavonic nations of yesterday and today. M. S. Stanoyevich. p. 267-322 [bibliog. p. xiii-xlvi] H. W. Wilson co. '25

See also Masaryk academy of work; Railroads—Czechoslovakia

Commerce
Foreign trade of Czechoslovakia. Economist 100:sup27 Ap 25 '25

Commercial policy
Trade policy of Czechoslovakia. Economist 101:sup31 O 24 '25

Economic conditions
Currency stabilization and its economic effects in Czechoslovakia. Econ W n s 29: 558 Ap 18 '25
Czechoslovakia—a resurrection. Comm & Fin Chr 120:1383-9 Mr 21 '25
Czechoslovakia's economic resources. P. Einzig. Bankers M 108:911-13+ Je '24
Czechoslovakia's economic situation. K. Englis. Economist 98:sup19 Mr 22 '24
Industrial Czechoslovakia. L. M. Gilbreth. Am Mach 81:533-4 O 2 '24
Investing in Czechoslovakia. Moody's Inv Serv 17:213-16 Je 25 '25
Present financial and economic conditions in Czechoslovakia. Econ W n s 30:370-1 S 12 '25

See also Debts, Public—Czechoslovakia; Finance—Czechoslovakia; Immigration and emigration—Czechoslovakia; Labor and laboring classes—Czechoslovakia; Labor laws and legislation—Czechoslovakia; Land tenure—Czechoslovakia

Foreign relations
France and Czechoslovakia. Economist 98:4-5 Ja 5 '24

Industries and resources
Cost of nationalism in Czecho-Slovakia. H: Obermeyer and A. L. Greene. il Am Mach 60: 291-4 F 21 '24
Czechoslovakia; a survey of economic and social conditions. J. Gruber, ed. 256p Macmillan '24

See also Ceramic industries—Czechoslovakia; Electric industries—Czechoslovakia; Electric plants (central stations)—Czechoslovakia; Electricity supply—Czechoslovakia; Machine tool industry—Czechoslovakia; Mines and mineral resources—Czechoslovakia; Petroleum industry and trade—Czechoslovakia; Steel works—Czechoslovakia

D

DAIRY buildings
See Barns and stables

DAIRY chemistry
Chemistry of milk and dairy products viewed from a colloidal standpoint. L. S. Palmer. bibliog Ind & Eng Chem 16:631-5 Je '24

DAIRY equipment

See Sterilizers, Electric

DAIRY machinery

Electricity and the California dairy farm; report of Pacific coast electrical association. J Elec 54:408-10 Je 1 '25

DAIRY products

Dairy industry. Comm M 6:3-14 Ja '25

Dairy products in the United States in 1923. Econ W n s 27:914-15 Je 28 '24

Remunerative farm products. Nat City Bank p 43-4 Mr '24

See also Butter; Butter fat; Cheese; Milk

DAIRY waste

Creamery waste purification by means of activated sludge. Eng N 92:152 Ja 24 '24

Disposal of creamery waste. J. I. Connolly. Eng & Contr (W W) 62:105-8 Jl 9 '24

Studies on the treatment and the disposal of dairy wastes. C. L. Walker and others. (Bul. 425) 170p Cornell univ. agricultural exp. sta., Ithaca '23; Conclusions and recommendations. Eng & Contr (W W) 61:357-9 F 13 '24

DAIRY workers

Agreement in the Danish dairy industry. Monthly Labor R 20:119-20 Ja '25

DAIRYING

Dairy engineering. J: T: Bowen. 532p Wiley '25

Here is a competitor to watch. H. L. Russell. il Am Bankers Assn J 17:693-4 My '25; Same. Econ W n s 29:764-5 My 30 '25

See also Milk cooling; Milk trade

Italy

Dairy industry in the economy of Italy. R. Angelone. Econ W n s 28:43-4 Jl 12 '24

Southern states

Dairy cow and illiteracy. C. Goins. Manuf Rec 88:87-8 Ag 13 '25

Dairy industry, oleomargarine and cottonseed products as seen in the West. C. Goins. Manuf Rec 87:81-2 Mr 19 '25

Dairy prosperity rings out high challenge to Southern states. C. Goins. Manuf Rec 86:81-2 Ag 21 '24

Dairying as a factor in the South's development. C. Goins. il Manuf Rec 86:156-63 pt 2 D 11 '24

Dairying is the South's rising star of prosperity. C. Goins. Manuf Rec 85:79-81 F 21 '24

How one community revolutionized its dairy industry. F. H. Jeter. il Manuf Rec 87:84-5 Je 18 '25

Increased dairy production South. C. Goins. Manuf Rec 88:71 S 24 '25

Magnitude of the American dairy industry and the South's opportunity. Manuf Rec 85: 61 Je 19 '24

Scientific dairy sets pace for country; story of the Western Maryland dairy of Baltimore. Manuf Rec 86:451-61 pt 2 D 11 '24

South at the National dairy exposition. C. Goins. Manuf Rec 88:75-6 O 22 '25

DAIRYMEN'S league

Why dairymen's league surrenders Dairylea to Borden. Ptr Ink 130:53-4 Ja 29 '25

DALLAS, Texas

Dallas as a spot cotton market. O. C. McQuage. il Comm & Fin 13:1801+ S 17 '24

Village that became a metropolis and how it solved a vital problem. il map Am Arch 125: 229-33 Mr 12 '24

Architecture

Medical arts building, Dallas. W. J. Knight. il diags plans Arch Forum 39:285-90 D '23; Same. Eng & Contr (Bldgs) 61:177-84 Ja 23 '24

Railroads

Santa Fe is building large terminal in Dallas. il plan Ry Age 76:419-20 F 16 '24

Water supply

Expending $5,000,000 to provide adequate water supply for city of Dallas. R. A. Thompson. il Manuf Rec 87:88-9 Je 25 '25

Garza dam for Dallas water-works will impound 63 billion gallons. il diags map plans Eng N 94:630-3 Ap 16 '25

DALTON, John, 1766-1844

Dalton memorials in Manchester, England. A. D. Thorburn. il Ind & Eng Chem 16:190-1 F '24

DAM failures. See Dams—Failures

DAMAGES

Ship wins grain damage case. Marine R 55: 216 Je '25

See also Fires, Liability for

DAMASCUS steel. See Steel

DAMASK weaving. See Linen weaving

DAMPERS

Does the damper work properly? W: V. Fitzgerald. diags Power Pl Eng 28:350 Mr 15 '24

Heating controlled by air dampers instead of steam valve. W. H. Wakeman. diag Power 61:988 Je 23 '25

New regulators added to Defender line. il Power Pl Eng 28:1078 O 15 '24

See also Draft

DAMPNESS in buildings

Damp walls. E. G. Blake. 265p Van Nostrand '23

DAMS

Activities of Streams commission; dams at Lake Mitis and Kenogami. O. O. Lefebvre. map Can Eng 46:214 F 5 '24

Alouette-Stave lake hydro development. C. E. Blee. il diags map plan Can Eng 49:223-8 Ag 18 '25

Arching not effective in slightly arched gravity dams. B. F. Jakobsen. diag Eng N 92: 1020-3 Je 12 '24; Discussion. 93:193 Jl 31 '24

Asphalt seals concrete cutoff in rock fill dam. diag Eng N 94:532 Mr 26 '25

L'auscultation des barrages et des cheminées. C: Rabut. Génie Civil 85:138-9 Ag 9 '24

Le barrage de Sennar, sur le Nil Bleu et l'irrigation de la plaine de Gezira (Haute-Égypte). il diags map Génie Civil 85:500-3 N 29 '24

Les barrages à voûtes multiples et la sécurité. E. Baticle. diag Génie Civil 85:36-7 Jl 12 '24

Barrages-réservoirs en terre contre les crues, pour la protection de Dayton (E.-U.). Degove. il diags map Génie Civil 83:456-61 N 10 '23

Belt conveyors build Wanaque dam embankment and core wall. il diag plans Eng N 95:252-8 Ag 13 '25

Cableways handle excavation and fill on Wisconsin dam. il map Eng N 93:301-2 Ag 21 '24

Calaveras reservoir of Spring Valley water company. G: A. Elliott. il diag Eng & Contr (W W) 64:377-80 Ag 12 '25

Calcul des barrages en arc; influence des variations de température. F. Carton. diag Génie Civil 85:381 O 25 '24

Calcul des barrages en arc; voûtes circulaires soumises à des pressions hydrostatiques. F. Carton. diags Génie Civil 85:192-5 Ag 30 '24

Calcul des enveloppes cylindriques soumises à des effets thermiques. A. Haegelen. diags Génie Civil 85:62-5 Jl 19 '24

Classification and definition of earth dam types. J. A. Holmes. diags Eng N 92:1102 Je 26 '24

Completing $1,600,000 Remmel dam on Ouachita river in Arkansas. il Manuf Rec 86:96-9 O 2 '24

La construction de l'usine-barrage de Chancy-Pougny. L: Vennin. diags maps Soc Ing Civils Bul 77:324-54, pl 72 Ap '24

La construction des barrages de grande hauteur résistant par leur propre poids. A. Dumas. Génie Civil 84:227-31 Mr 8 '24

DAMS—*Continued*
La construction des barrages-voûtes en Suisse; barrages de Broc, sur la Jogne, et d'Amsteg, sur la Reuss. H. E. Gruner. il diags plan Génie Civil 87:181-6 Ag 29 '25
Construction of dams. A. P. Davis. Engineering 118:466-8 S 26 '24
Construction plant, methods and costs. C: H. Paul. 411p Groneweg printing co., Dayton, O. '25
Control of river floods with special reference to the Miami conservancy district of Ohio. C: H. Paul. il diags map J Fr Inst 198: 161-79 Ag '24
Dam floods Danville water-works requiring replacement. P. Hansen. il diags map Eng N 94:636-7 Ap 16 '25
Damming the Kawarau river in New Zealand. il Engineer 140:356 O 2 '25
Davis Bridge power project to develop 60,000 hp. A. C. Eaton. diags plans Eng N 92:142-5, 235-8 Ja 24, F 7 '24
La démolition du barrage et de l'écluse de la Monnaie, à Paris. H. Lang. il diag plans Génie Civil 87:341-5 O 24 '25
Design for cellular gravity dam. E. de Gaetani. Engineer 139:279-80 Mr 6 '25
Design of paved road for dam top Dayton flood works. C. S. Bennett. diags Eng N 93: 660-1 O 23 '24
Dix river dam; abstracts. L. F. Harza. il Eng & Contr (G C) 63:1331-41 Je 17 '25; Eng N 94:1058-61 Je 25 '25; W Soc E J 30: 397-404 S '25
Dix river dam and power house completed. il diag Power Pl Eng 29:1060-2 O 15 '25
Earthen dams in South Africa. Engineer 138: 504 O 31 '24
Études sur modèles de barrages-déversoirs. C. Camichel, L. Escande and M. Ricaud. il diag Génie Civil 86:116-17 Ja 31 '25
Expending $5,000,000 to provide adequate water supply for city of Dallas, Texas. R. A. Thompson. il Manuf Rec 87:88-9 Je 25 '25
Fast hydraulic filling of the Wichita Falls dam. A. S. Fry, R. A. Thompson and O. N. Floyd. il Eng N 91:1004-8 D 20 '23
Die fördereinrichtungen beim bau der Schwarzenbach-talsperre. M. Enzweiler. il diag plan Zeit Ver Deutsch Ing 68:718-20, 737-9 Jl 5-12 '24
Garza dam for Dallas water-works will impound 63 billion gallons. il diags map plans Eng N 94:630-3 Ap 16 '25
Geology and the location of dams in west Texas. L. T. Patton. Econ Geol 19:756-61 D '24
Geology and the location of dams on the Canadian river, Texas. L. T. Patton. Econ Geol 20:464-9 Ag '25
Les grands barrages-réservoirs italiens de construction récente ou en construction. il Génie Civil 84:475-7 My 17 '24
High-velocity discharge of overfall dams and forms of spillway profile. A. F. Meyer. diags Eng N 94:597-9 Ap 9 '25; Discussion. 94: 587-8, 780, 886, 945; 95:154 Ap 9, My 7, 21, Je 4, Jl 23 '25
Hydraulic fill dam nomenclature. Eng N 92: 222 F 7 '24; Discussion. C: H. Paul. 92:374 F 28 '24
Improved type of multiple-arch dams. F. A. Noetzli. diags plan Am Soc C E Pro 49:1065-92, pl 3 Ag '23; Discussion. 49:1607-23, 1767-84, 1924-6, 2067-8; 50:58-62, 218-22, 296-310 S '23-Mr '24; Can Eng 45:555 D 4 '23
Instructions relatives à la préparation des projets et à l'exécution des travaux de barrages de grande hauteur. Y. Le Trocquer. Génie Civil 83:408-9 O 27 '23
Kentucky falls top old Niagara. Pub Serv Management 38:70 Mr '25
Lloyd dam at Bhatghar. Eng N 93:268 Ag 14 '24
New England power company Davis Bridge development. A. C. Eaton. il diags Boston Soc C E J 12:12-19 Ja '25; Same. Eng & Contr (W W) 63:503-6 Mr 11 '25
Oradell dam of the Hackensack water company. N: S. Hill, jr. il diags map plans Am Soc C E Pro 51:1569-90 O '25
Overflow dam stops drifting gravel. il diag Concrete 23:192-3 N '23
Pennsylvania protects against water shortage at Altoona. C: Haydock. il Ry Age 78:985-6 Ap 18 '25
Plugging world's highest earth dam; Davis Bridge dam of New England power co. il Pub Serv Management 36:103 Ap '24
Pneumatic caissons in dam construction. Eng & Contr (W W) 62:1291-2 D 10 '24
Power dams and fish. Elec W 84:482 S 6 '24; Same. Power 60:437 S 9 '24
Pressure lines in masonry dams. A. Vander Meersch. diags Eng & Contr (W W) 63: 1265-7 Je 10 '25
Race with nature; construction of the Sennar dam, on the Blue Nile. H. J. Shepstone. il map Sci Am 132:26-7 Ja '25
Regulation of the Murray river. il diags Engineering 119:565-6, 576 My 8 '25
Reservoir construction and earthquakes. H: Hawgood. Eng & Contr (W W) 64:826 O 14 '25
Roller gates make up the major portion of Powerdale dam. J. E. Yates. il plan Eng N 94:482-3 Mr 19 '25
Sand dams built by hydraulic fill in northern New York. il diag map Eng N 94:180-3 Ja 29 '25
Sennar dam and the Gezira irrigation scheme. il (supp) charts diags Engineer 138:348-50, 352 S 26 '24
Sennar dam on the Blue Nile. il (supp) Engineer 140:16-18 Jl 3 '25
Staumauer nach dem zellensystem; abstract. diag Elektrotech Zeit 45:659 Je 19 '24
Stave Falls development, British Columbia. il diags maps Engineering 120:279-82, 348-51, 358, pl 17-19, 24 S 4, 18 '25
Stresses in multiple-arch dams. B. F. Jakobsen. diags map Am Soc C E Pro 49:1093-1131 Ag '23; Discussion. 49:1785-91, 1927-8, 2069-71; 50:63-82 O '23-Ja '24
Suction dredges in dam construction. S. Edwards. Eng & Contr (W W) 63:526-7 Mr 11 '25
Swiss engineers build body of dam before foundation. diag Eng N 93:345 Ag 28 '24
Tirso dam and hydroelectric scheme, Sardinia. diags map plan Engineeering 118:632-5, pl 65-8 N 7 '24
Upper Yukon river dam. il Can Eng 46:577 Je 3 '24
Wichita dam; completion of another big Western irrigation project. il Sci Am 131:30 Jl '24
World's largest rock-fill dam built on Dix river. G: W. Howson. il diags Eng N 94: 548-52 Ap 2 '25

See also Barrages; Cofferdams; Dikes (engineering); Embankments; Hetch Hetchy water supply project; Hydroelectric plants; Irrigation; Kensico dam, Kensico, N.Y.; Reservoirs; Spillways

Cost

Method and cost of constructing Malone diversion dam. Eng & Contr (W W) 60:1048-9 N 14 '23

Failures

Case for the owners of the Gleno dam. Engineer 139:330-1 Mr 20 '25
Les conditions de sécurité des barrages massifs. C: Rabut. Génie Civil 84:498-500 My 24 '24
Details of the failure of an Italian multiple-arch dam. il Eng N 92:182-4 Ja 31 '24; Discussion. F. A. Noetzli. 92:501-2 Mr 20 '24
Experts charge Gleno dam failure to masonry base. A. DeMartini. Eng N 92:1018 Je 12 '24
Experts report on Gleno dam failure. Eng N 94:146 Ja 22 '25
Failure of Apishapa earth dam in southern Colorado. J: E. Field, B. M. Jones and O. N. Floyd. il diags Eng N 91:357-8, 418-24 Ag 30, S 13 '23; Discussion. 91:447, 568, 1029-30 S 13, O 4, D 20 '23
Failure of Gleno dam charged to buttress shear. A. Stucky. il diag Eng N 92:486-8 Mr 20 '24; Discussion. E: Godfrey. 92:627-8 Ap 10 '24

DAMS—Failures—*Continued*
Failure of the Gleno dam. Engineer 138:663-4 D 12 '24; Same. Eng & Contr (W W) 63: 500-2 Mr 11 '25
Failure of the Gleno dam in Italy. G. Rodio. il Eng & Contr (W W) 61:375-8 F 13 '24
Gleno dam controversy. Can Eng 48:641-2 Je 30 '25
Gleno dam failure. Engineer 139:467-8, 661 Ap 24, Je 12 '25
Note sur la rupture du barrage de Bouzey. V. de Belaevsky. Génie Civil 86:239-40 Mr 7 '25
Official report on collapse of Gleno dam. diags plan Eng N 93:213-15 Ag 7 '24
Partial failure of earth dam at Horton, Kansas. E. B. Black. il Eng N 95:58-9 Jl 9 '25
Pros and cons of the Gleno dam failure. Eng & Contr (W W) 63:1275-8 Je 10 '25
La rupture du barrage à voutes multiples sur le Gleno (Lombardie); rapport officiel des experts. il diag Génie Civil 85:346-8 O 18 '24
La rupture du barrage à voûtes multiples sur le Gleno (Lombardie); rapport des ingénieurs désignés par les constructeurs. il Génie Civil 86:112-15 Ja 31 '25
La rupture du barrage à voutes multiples sur le Gleno (Lombardie). C: Dantin. il diags map Génie Civil 84:351-6 Ap 12 '24
Undermining causes failure of French Landing dam. il plan Eng N 94:735-6 Ap 30 '25; Discussion. 94:1070-1; 95:194, 396 Je 25, Jl 30, S 3 '25

Fish problem
Experiment in lifting salmon over high dams. J: N. Cobb. il J Elec 54:50-3 Ja 15 '25
Salmon elevator to be tried out on White Salmon river. il J Elec 53:343 N 1 '24

Oiling
Fuel and road oil applied as binder on earth-fill dams. il Eng N 94:737 Ap 30 '25

Repair
Break in timber dam closed during flood. J. C. Stevens. il diags Eng N 92:1029 Je 12 '24

Testing
Full-scale tests of arched dams. diag plan Engineering 120:343 S 18 '25

DAMS, Concrete
Alcona dam on Au Sable river. W: W. Tefft. il diags plan Power 59:212-14 F 5 '24
Arched concrete dam for Tasmanian barrage. F. Johnstone-Taylor. diags Concrete 24:247-8 Je '24
Baker river dam presents difficult problems. W. D. Shannon. il map J Elec 55:174-5 S 1 '25
Le barrage en béton de Montejaque (Andalousie). il diags plan Génie Civil 85:556-7 D 13 '24
Bassano dam and irrigation works. il Engineering 119:63-5 Ja 16 '25
Behavior of mass concrete under service conditions. A. P. Davis. Am Soc T M Pro 23 pt 2:177-85 '23
Belt conveyors build Wanaque dam embankment and core wall. il diag plans Eng N 95:252-8 Ag 13 '25
Blind Slough dam at Stave lake, B.C. A. F. Tredcroft. il Can Eng 45:541-4 D 4 '23
Building Black Canyon irrigation dam in western Idaho. W. Ward. il diags Eng N 93: 818-23 N 20 '24; Discussion. 94:164 Ja 22 '25
Building the Lake Humphreys concrete arch dam. C. A. Gould. il diags plans Eng N 94: 315-19 F 19 '25
Building Wilson dam at Muscle Shoals on the Tennessee. il diags plan Eng N 94:676-83, 724-9 Ap 23-30 '25
Calitzdorp dam; the first concrete storage irrigation dam in South Africa. Engineer 138: 734 D 26 '24
Concrete dam at Bassano is of hollow type. il Concrete 24:245 Je '24; Same. Eng & Contr (W W) 62:336 Ag 13 '24
Concrete dam made water-tight. il Power Pl Eng 29:168 Ja 15 '25
Concrete work at Wilson dam, Muscle Shoals. R. P. Brown. il diag Eng & Contr (W W) 62:61-6 Jl 9 '24
La construction des barrages-voûtes en Suisse. H. E. Gruner. il diags plan Génie Civil 87:181-4 Ag 29 '25
La construction des grands barrages en maçonnerie. A. Stucky. Génie Civil 87:276 S 26 '25
Construction of Loch Raven dam. W: A. Megraw. il diags plans Am Water Works Assn J 11:434-45 Mr '24
Convenient scheme for forms on face of concrete dam. il Eng N 93:271 Ag 14 '24
Dam and filter plant at Smith's Falls. E. H. Darling. il diag plans Can Eng 48:453-5 My 5 '25
Dam and power-house reconstruction at Marinette, Wis. D. G. Moon. il diags plans Eng N 94:973-6 Je 11 '25
Design features of recent Swedish arch dams. B. Hellstrom. Eng & Contr (W W) 62:345-7 Ag 13 '24; Same. Engineering 118:76 Jl 11 '24
Early concrete dam that still stands. il Concrete 27:49 S '25
L'électrification des chemins de fer suisses. C. A. Giudici and G. Wunenburger. il diags plans Génie Civil 86:512-15 My 23 '25
Emergency dam of Seattle canal lock. A. W. Sargent. il diag Eng & Contr (G C) 64:910-13 O 21 '25
Exchequer dam construction plant built in narrow canyon. il diags plans Eng N 94: 880-4 My 28 '25; Eng & Contr (G C) 64:129-35 Jl 15 '25
Four-mile belt conveyor system; how fill and concrete are handled in the construction of the Wanaque dam. il Eng & Contr (G C) 63:841-3 Ap 17 '25
Great-Lake hydro-electric scheme, Tasmania. il Engineering 117:451-2, 466, pl 32 Ap 11 '24
Hartebeespoort dam, Pretoria, South Africa, il Eng & Contr (W W) 61:340-2 F 13 '24; Engineer 137:228, 230-1 F 29 '24; Engineering 117:323-5, 338 Mr 14 '24; Eng N 92:981-2 Je 5 '24
High arch type dam built in southern Spain. M. E. Wegenstein. il plans Eng N 93:128-30 Jl 24 '24
Hydro-electric development at the Muscle Shoals, Alabama, il diags plans map Engineer 140:8-10, 12, 29-32, 38, 68-70 Jl 3-17 '25
Irrigation enterprises in Australia. il Engineer 139:462, 465 Ap 24 '25
Is this a concrete placing record? Eng N 95: 113, 232, 278 Jl 16, Ag 6-13 '25
Lake Mentz dam on Sundays river. il diags Engineer 137:116-17, 122 F 1 '24
Large concrete dam to be built at American Falls. diags Eng N 93:741-2 N 6 '24
Large multiple-arch dam being built in Italy. J. B. Lippincott. il diag Eng N 95:710-11 O 29 '25
Large power development, Stave Falls. il Can Eng 48:359-64 Mr 31 '25
Main features of the Hubbart dam. diag plan Eng & Contr (W W) 63:1258-60 Je 10 '25
Method of constructing concrete dam in zero temperature. G: H. Kohl. plans Eng & Contr (W W) 62:364-7 Ag 13 '24
Multiple-arch dam at Gem lake on Rush Creek, California; frost action. F. O. Dolson and W. L. Huber. il diags plans Am Soc C E Pro 51:1310-32; Discussion. J. Y. Jewett. 1453-5 S '25
Power possibilities at Muscle Shoals, Alabama. S: S. Wyer. maps Am Inst E E J 44:571-8 Je '25
Proposed experimental arch dam on Stevenson Creek. il plans Eng N 94:816-17; 95: 510 My 14, S 24 '25
Reclamation bureau new dam in Idaho. diags Eng & Contr (W W) 62:804 O 8 '24
Reinforced multi-arch dam design adopted by Swedish engineers. F. Johnstone-Taylor. diags Concrete 24:152-3 Ap '24
Roller gates make up the major portion of Powerdale dam. J. E. Yates. il plan Eng N 94:482-3 Mr 19 '25

DAMS, Concrete—*Continued*
Sherman Island dam and power-house. H. deB. Parsons. il diags plans Am Soc C E Pro 51:341-76 Mr '25; Excerpts. Eng & Contr (W W) 63:735-42, 1025-32 Ap 10, My 13 '25; Discussion. Am Soc C E Pro 51: 911-25 My '25
Staunton water supply project. W. F. Day. il Pub Works 56:88-90 Mr '25
Storage dams at Lake Kenogami, Que. A. F. Dyer. il diags plan Can Eng 49:489-94 O 27 '25
Structural design features of a hydroelectric development near Bristol, New Hampshire. W: D. Henderson. il diags plan Boston Soc C E J 12:169-91 Ap '25
Study on reinforced concrete dams. E. G. Harris. Mo U Sch Mines & Met tech ser 8:1-56 My '25
Suorva Lakes dams, Lapland. il diags maps Engineering 116:731-5, 746 D 14 '23; Same. Eng & Contr (W W) 61:361-8 F 13 '24
Taking concrete dam temperatures during process of setting. Eng N 93:964-5 D 11 '24
Tensile reinforcement in concrete dams. J. M. MacPhail. diags Eng & Contr (W W) 62:88-90 Jl 9 '24
Use of concrete for dams, tunnels, culverts and canals. A. P. Davis. il Am Concrete Inst Pro 20:89-95 '24
Use of plum stones in concrete. Eng & Contr (G C) 64:433-4 Ag 19 '25
Les usines hydro-électriques de Rempen et de Siebnen dans le canton de Schwyz (Suisse); le barrage-réservoir du Wäggital. A. Bidault des Chaumes. il diags maps Génie Civil 87:241-5 S 19 '25
Wanaque dam construction. il Pub Works 56:349-52 O '25
Wilson dam at Muscle Shoals is going forward. W. B. West. il Power Pl Eng 28: 1142-3 N 15 '24
Wilson dam nears completion. il Concrete 25: 146-50 O '24
Wilson dam of Muscle Shoals project. il Eng & Contr (G C) 63:1109-15 My 20 '25
Year's progress in construction on Exchequer dam. il Eng N 95:609 O 8 '25

Cost

Building Black Canyon irrigation dam in western Idaho. W. Ward. Eng N 93:822-3 N 20 '24; Discussion. 94:164 Ja 22 '25

Failures

Bully Creek dam failure due to unsupported core-walls. diag Eng N 94:870 My 21 '25
Destruction d'un barrage à voûtes par la gelée. Génie Civil 87:255-6 S 19 '25
Frozen concrete due to undesirable material? W. H. Wheeler. Eng N 95:232 Ag 6 '25
Was Gem Lake dam disintegration due to underburned cement? L. Jorgensen. Eng N 95:606 O 8 '25

Repair

Heavy concrete dam repaired with guncrete. il diag Concrete 26:212-13 Je '25
Multiple arch dam disintegrates under low temperatures. il Eng N 95:22-3 Jl 2 '25
Preserving faulty concrete. J: V. Schaefer. il diag Elec W 85:618-19 Mr 21 '25
Reconstruction of Hell Gate dam to eliminate silt. il diags Eng N 91:1055-8 D 27 '23
Repairing the Laguna dam on the Colorado. R. M. Priest. il diag Eng N 93:1002-3 D 18 '24; Same. Eng & Contr (W W) 63:119-20 Ja 14 '25

Testing

Arch dam planned for test to destruction. Eng N 92:530 Mr 27 '24
Proposed test dam. Eng N 94:816-17, 992; 95: 74 My 14, Je 11, Jl 9 '25
Testing of dams for hydroelectric installations. Eng & Min J 120:628 O 17 '25
Will build and destroy concrete dam to learn arch design. Concrete 27:46 S '25; Same cond. Power 62:191 Ag 4 '25; Same cond. Power Pl Eng 29:955 S 15 '25

DAMS, Movable
New type movable dam guards Soo canal locks. L. C. Sabin. il diags Eng N 93:656-60 O 23 '24

DANSVILLE, New York
Modern industry annihilates space; the Power specialty co. J: A. Piquet. il Ind Management 70:8-10 Jl '25

DANUBE river
Danube navigation. Engineering 120:420 O 2 '25
Die praktische lösung der Donauversinkungsfrage. Christaller. diags map Zeit Ver Deutsch Ing 69:933-6 Jl 11 '25

DANVILLE, Kentucky

Water supply

Dam floods Danville water-works requiring replacement. P. Hansen. il diags map Eng N 94:636-7 Ap 16 '25

DANZIG
Zur XXX. jahresversammlung des verbandes Deutscher elektrotechniker 1925 in Danzig. W. Runge and others. il plans Elektrotech Zeit 46:1329-37 S 3 '25

DAPHOENUS
Radial exostosis in the fossil canid daphoenus. A. S. Romer. diags Am J Sci 5th ser 8:235-40 S '24

DARAPSKITE
System sodium nitrate—sodium—sulphate—water, and the minerals darapskite and nitroglauberite. H. W. Foote. Am J Sci 5th ser 9:441-7 Je '25

DARCO
Darco, a boneblack, is a new product of lignite. H. C. Marshall. Coal Age 26:334 S 4 '24

DARLING, Jay Norwood, 1876-
J. N. Ding who puts a smile in economics. H: Schott. por Nation's Business 13:37-8 My '25

DARLINGTON, England

Rapid transit

Trackless trolley versus tramway at Darlington. Elec Ry J 63:949 Je 14 '24

DARTNELL corporation, Chicago
Trip through the new home of Sales Management. il Sales Management 9:521-5+ O 17 '25

DASHEEN
Unknown vegetable to be advertised. Ptr Ink 128:135 Jl 24 '24

DATES (fruit)
Commercial production of dates in California. Econ W n s 30:515 O 10 '25
How we stabilized production; Hills brothers company. E. G. Draper. Ptr Ink M 11:19-20+ O '25

DATISCETIN
Synthesis of datiscetin. J. Kalff and R. Robinson. Chem Soc J 127:1968-73 S '25

DAUGHERTY, Harry M.
Resignation of Harry M. Daugherty as Attorney-general of the United States; correspondence with President Coolidge. Comm & Fin Chr 118:1481-2 Mr 29 '24

DAVENPORT, Iowa

Rapid transit

Rerouting in Davenport proves effective. Elec Ry J 63:274-5 F 16 '24
Service improvement in Davenport. E. J. Anderson. Elec Ry J 66:365-6 S 5 '25
Ten-cent fare justified; service retained. Elec Ry J 62:879, 915 N 17-24 '23

DAVEY tree expert company
Educating salesmen and keeping them educated. J. True. Ptr Ink M 11:37-8+ Jl '25
How Davey tree surgery grew big in a small town. L. L. Poe. Forbes 16:659-61+ Ag 15 '25

DAVIDSON, James E.
President of the National electric light association. por Pub Serv Management 39:9 Jl '25

DAVIS, Dwight F.
Dwight F. Davis succeeds John W. Weeks as Secretary of war. Comm & Fin Chr 121: 2114-15 O 31 '25

DAVIS, Jefferson
Memorials
Davis monument—country's second highest. il Concrete 25:151-3 O '24

DAVIS, John M.
President of D.L. & W. por Ry Age 78:1453-4 Je 13 '25

DAVIS, John W.
Correspondence between Samuel Gompers and former Secretary of labor Wilson on labor record of John W. Davis. Comm & Fin Chr 119:777-80 Ag 16 '24
Labor Day address. Comm & Fin Chr 119: 1132-3 S 6 '24

DAVIS Bridge development. See Hydroelectric plants—Vermont

DAVISON chemical company
21st annual report, for 1923. Comm & Fin Chr 118:791-2 F 16 '24

DAVITS
Barber luffing davit. il diags Engineering 120:146 Jl 31 '25
Solve unusual lifeboat problem. il diag Marine R 54:349-52 S '24
Sureal self-acting davit. il diags Engineering 119:383, 388 Mr 27 '25

DAWES, Charles G., 1865-
Inaugural address of vice-president. Comm & Fin Chr 120:1161-2 Mr 7 '25
A paymaster of reparations. E. L. James. por Am Bankers Assn J 16:707-9 My '24
Sketch. por Bankers M 108:689 My '24

DAWES reparations report. See German indemnities

DAY, Maxwell W., 1865-
Portrait. Elec W 83:126 Ja 19 '24

DAY labor
Contractors, politicians and day labor. Eng & Contr (Bldgs) 63:893-4 Ap 24 '25
Day labor, culverts and reinforcement. Pub Works 55:137-8, 266-8 Ap, Ag '24
Day labor operations in public construction. Eng & Contr (G C) 63:1312-20; 64:149-57 Je 17-Jl 15 '25
Day labor vs. contract in Walla Walla county, Washington. R. G. Dieck. Eng & Contr (R & S) 62:272-7 Ag 6 '24
Economic aspects of day labor construction. A. S. Bent. Munic Eng 66:71-7 F '24
Federal aid denied day-labor road work in Arizona. T: H. Macdonald. Eng N 94:812-13 My 14 '25; Abstract. Pub Works 56:167 My '25
Methods of wage payment: the day wage. Harvard Business R 3:99-103 O '24
Problems of the construction industry. R. C. Marshall, jr. Boston Soc C E J 12:280-5; Discussion. 290-9 Je '25
Public improvements by day labor. Pub Works 55:348 N '24
Public improvements by day labor; experiences of Lynchburg, Va. E: A. Beck. Pub Works 55:316-17 O '24
Setbacks for day labor on government work. Munic & Co Eng 68:270 My '25
See also Force account system

DAY nurseries, Factory
Kindergarten-nursery project run by industry. S. P. Moore. il Nation's Health 7: 613-15 S '25
Plant nurseries mean less worry, greater safety for employed mothers. il Nat Safety N 12:15 Ag '25

DAYLIGHT
Better utilization of daylight in art galleries and other places. H. I. Day. il Am Arch 126:581-8 D 17 '24
Bringing daylight through the walls. W. S. Brown. il diags Am Arch 126:345-52 O 8 '24
Co-ordination of research in illuminating engineering and some practical applications. J. S. Dow. Illum Engr 17:9-10 Ja '24
Daylight recording at the Edison electric illuminating company of Boston. H. J. Baker. il diag Illum Eng Soc 20:515-22; Discussion. 523-6 My '25
Daylight recording by the New York Edison company. W. R. Boyd. il chart plans Illum Eng Soc 20:511-14 My '25
Daylighting from windows. H. H. Higbie and G. W. Younglove. diags Illum Eng Soc 19: 235-68 Mr '24
Determination of daylight intensity at a window opening. H. H. Kimball. diag Illum Eng Soc 19:217-34 Mr '24
How we let in the daylight. E. H. Trick. il Factory 32:900+ Je '24
Modern factory lighting. W. F. Ballinger. il Eng & Contr (Bldgs) 61:1173-8 My 28 '24; Excerpts. Ind Management 67:250-4 Ap '24
Modern manufacturing plant; new plant of the Hall planetary company. J. R. Thomas. il plan Management & Adm 10: 261-4 N '25
Practical daylight calculations for vertical windows. W. S. Brown. diags Am Arch 128:281-7 S 23 '25
Prediction of daylight from vertical windows. H. H. Higbie. diags Illum Eng Soc 20:433-73; Discussion. 473-6 My '25
Records of daylight by the photoelectric cell. J. E. Ives. il diags Illum Eng Soc 20:498-510 My '25
Records of total solar radiation intensity, and their relation to daylight intensity. H. H. Kimball. Illum Eng Soc 20:477-97 My '25
Right maintenance of artificial climate in the home. A. Ravenhill. Nation's Health 6:835-7 D '24
Some principles governing the proper utilization of the light of day in roof fenestration. W. S. Brown. diags Illum Eng Soc 19:269-87 Mr '24; Same. Eng & Contr (Bldgs) 63:1157-67 My 27 '25
Some problems in the daylight lighting of textile factories. P. J. Waldram. il diags Illum Engr 17:79-86 My '24; Discussion. 17: 99-101 Je '24
Window design and the measurement and predetermination of daylight illumination. P. J. Waldram and J. M. Waldram. diags Illum Engr 16:90-117; Discussion. 117-22 Ap '23
Windows: tools of production. K. D. Hamilton. il Factory 34:920-4+ Je '25
See also Orientation (architecture)

DAYLIGHT, Artificial
Artificial daylight; abstract. L. C. Martin. Soc Dyers & Col J 40:343-4 O '24
Blue glass daylight lamps. il N E L A Bul 12:327 My '25
Künstliche lichtquellen mit tageslichtfärbung. C. Samson. il diag Elektrotech Zeit 46:450-2 Mr 26 '25
Macbeth artificial daylight and the fadeometer. A. D. Lang. Soc Dyers & Col J 40:40-4; Discussion. 44-5 F '24
New method of obtaining daylight under artificial light; Weisz spectacles. R. Fischer. Brass W 21:86 Mr '25
Progress in artificial daylight uses. Chem Age (Lond) 11:551 N 29 '24
Spectrophotometric comparison of artificial daylight with natural north sky light. P. R. Ord. diags Illum Engr 16:167-75; Discussion. 175-7 Jl '23

DAYLIGHT saving
Two hundred cities save daylight. Sales Management 9:115 Jl 25 '25

DAYTON, Ohio
Public works
Experience of Dayton, O., in building public works by force account. I. E. Houk. Pub Works 55:317-18 O '24

DEAERATORS
Manufacture
Producing deaerator shells. J. J. Zimmerman. il diags Foundry 53:77-9 Ja 15 '25

DEAF
Placement of the deaf in North Carolina, 1923-24. Monthly Labor R 20:1107-8 My '25

DEAF—*Continued*
Re-education proves value of Central institute for deaf. S. P. Moore. il Nation's Health 7:529-31 Ag 15 '25
Value of radio to the deaf. W. Pond. il Radio N 6:304+ S '24

DEAFNESS
Helping deafness by nerve stimulation. P. V. Winslow. il diags Sci Am 131:301-3 N '24
Tinnitus and its relation to nerve deafness with an application to the masking effect of pure tones. J: P. Minton. Phys R 22:506-9 N '23

DEAFNESS, Instruments for
Electrical apparatus for the deaf. C: M. R. Balbi. il diags Elec R (Lond) 94:87-9, 149-50 Ja 18-25 '24
Man-made ears for the deaf H. Fletcher. il Sci Am 133:320-1 N '25

DEALER helps
Bringing in new business with a "facts" campaign. M. H. Lund. System 45:54-6+ Ja '24
Building a sales plan around a display rack. J: H. Stutt, jr. Ptr Ink 128:113-14 S 18 '24
Chevrolet course for salesmen follows correspondence school methods. D. M. McDonald. Automotive Ind 50:1123-4 My 22 '24
Christmas opportunities to cement customer relations. D. Argyle. Ptr Ink 129:25-6+ O 9 '24
Collecting by helping the dealer collect. R. M. Dulin. System 46:428-9 O '24
Dealer helps at $150 each; Upson company teaches use of wallboard. W. Bates. il Ptr Ink M 11:54+ O '25
Dealer helps that really help sell more merchandise; Cooper underwear company starts a monthly display service. il Sales Management 8:743-4 My 16 '25
Dealer writes on ideas that help the dealer with window displays. A. H. Van Voris. Ptr Ink 126:73-4+ Mr 13 '24
Do you help your retailers with their collection problems? Ptr Ink 128:53-4+ Jl 17 '24
Encouraging retailers to sell away from their door-steps. R. Branner. il Ptr Ink M 9:50+ N '24
Four fundamentals of sales development; campaign carried out by sales divisions of the National lamp works. P. B. Zimmerman. il System 46:446-7+ O '24
Getting dealers to swap selling experiences; manufacturer of A B C washing machines compiles manual to help retailers. Ptr Ink 125:105-6+ D 27 '23
Help retailers need from salesmen and from advertising copy. R. E. Kennington. Ptr Ink 132:131-2+ S 17 '25
Help your dealers solve their credit problems. R. M. Dulin. Ptr Ink 131:25-6+ Je 18 '25
Helping customers along the second mile of business. A. Belden. Ptr Ink M 8:46+ F '24
Helping the dealer resell; how merchandisers on the sales force can get and improve contact between manufacturer and dealer. Ptr Ink 128:25-6+ Jl 3 '24
Helping the dealer set his monthly quota. Ptr Ink 128:49+ S 11 '24
Helping the merchant sell goods he won't stock. R. Crothers. Ptr Ink M 8:41-2 Ja '24
Helping the retailer with his collection letters. Ptr Ink 126:44+ Ja 10 '24
Home town campaign provides data for waking up dealers. Sales Management 7:1713-14+ N '24
How a typewriter manufacturer provides distributor co-operation. E: N. Vose. il Dun's Int R 45:47-52 Jl '25
How can we get the dealer to do things our way? G. A. Nichols. Ptr Ink 128:17-20 Ag 21 '24
How Chevrolet helped thirteen dealers pass a sales goal of $1,500,000. E. B. Weiss. Ptr Ink 126:121-2+ Ja 3 '24
How I sell my brick. P. B. Belden. Brick & Clay Rec 67:36-7 Jl 7 '25
How to help your retailer show the product. A. H. Van Voris. Ptr Ink 130:17-20 Ja 8 '25
How to turn salesmen into sales managers. C. C. Casey. Ptr Ink 128:57-8+ S 11 '24
How we sell dealers who are overloaded with other goods; Canada Dry's solution of this problem. P. M. Boggs. Ptr Ink 131:17-19 My 7 '25
Ideas that help me sell your merchandise more intelligently. A. H. Van Voris. Ptr Ink M 9:80+ D '24
Ideas—the best dealer helps for high-class stores. J. True. Ptr Ink 131:49-50+ Ap 9 '25
Ideas your dealers can use in building mailing lists. S. H. Ditchett. Ptr Ink 129:169+ D 18 '24
Increasing business by encouraging hand-to-mouth buying. B. P. Disque and J: A. Murphy. Ptr Ink M 11:33-4+ N '25
Is your sales area limited to a day's journey? C: Z. Muller. Ptr Ink 129:105-6+ O 9 '24
Managing ideas win dealer co-operation. C. C. Casey. Ptr Ink 132:105-6+ S 24 '25
Napanee's flying squadron of resale men. A: Belden. Ptr Ink 125:52+ N 8 '23
Nine executives answer vital questions on getting new dealers. C: G. Muller. Ptr Ink 132:3-4+ Ag 13 '25
Our dealers really use our dealer helps. H. L. Harding. il System 46:168-71 Ag '24
Plussing the retail sale without extra stocks; an understudy catalogue. D. Hubbard. Ptr Ink 128:81-4 Jl 31 '24
Putting merchandising in the dealer's vocabulary. D. Hubbard. Ptr Ink 126:105-8+ F 28 '24
Report of N.W.D.A. committee on education. Oil Paint & Drug Rep 108:35-6 O 15 '25
Sales policy that gives retailers choice of three selling plans; how Tappan stove helps dealers move its product. Ptr Ink 127:174+ My 15 '24
Seven hundred new customers from "lame duck" orders. J: S. McNeal. il Sales Management 6:1065-6+ Je '24
Stock solution for everyday questions. Ptr Ink 131:175+ My 7 '25
Three hundred percent increase in sales in twenty months; special sales of kitchenets. F. S. Fenton, jr. Sales Management 7:1459-60 S '24
Unselfish selling in the dealer house-organ. B. F. Berfield. Ptr Ink M 11:46 Jl '25
Waking up the small town retailer. A. W. Rucker. il Sales Management 8:239-40, 327-8 F 7-21 '25
What an ex-salesman thinks of the inquiries you get. R. Wark. Ptr Ink 129:33-4+ N 6 '24
When dealer ignorance is an obstacle to sales. D. Gridley. Ptr Ink M 11:39-40+ O '25
When dealers exchange selling tips. N. Lewis. Ptr Ink M 9:126 N '24
Why we get all-around dealer cooperation. B. J. Cahn. il System 45:167-71 F '24
Your dealers need help in laying out their stores. W. A. Bowe. il Ptr Ink M 11:43-4+ S '25

See also Advertising—Dealer cooperation; Advertising—Dealer helps; Advertising—Inquiries; Counter display cabinets; Credit departments—Service; Sales manuals, Retail; Show windows

DEALERS. See Retail trade

DEALERS, Advertising to. See Advertising—Dealers, Appeal to

DEALERS, Selection of. See Marketing

DEALERS names in advertisements. See Advertisements—Listing of dealers

DEALERS' salesmen. See Salesmen, Retail

DEALERS' schools
Making merchants out of storekeepers; a course in merchandising Armstrong's linoleum. A. K. Barnes. Ptr Ink 126:10+ Mr 6 '24

DEAMINIZATION
Deaminization; evidence of the existence of aliphatic diazonium salts from the formation of chloro-oximino compounds. G. S. Skinner. diag Am Chem Soc J 46:731-41 Mr '24
Deaminization of esters of alanine and of amino-*iso*butyric acid. A. L. Barker and G. S. Skinner. Am Chem Soc J 46:403-14 F '24

DEAN, Onativia & company
Failure of Dean, Onativia & co. Comm & Fin 14:1310 Jl 8 '25

DEATH
What minute will you die? M. McFadden. il Sci Am 132:149-51 Mr '25

DEATH duties. See Inheritance tax

DEATH rate. See Insurance, Life; Mortality

DEATH rays
Mysterious death rays. Sci Am 131:84 Ag '24

DEATH registration
Ten states of the Union still outside death registration area. map Eng N 93:873 N 27 '24

DEATH Valley, California
Death Valley; its romance and tragedy. H. L. Harris. Chemicals 23:6-7 Je 8 '25
Through Death Valley on the Fourth of July. H. R. Van Wagenen. il Eng & Min J 116:980 D 8 '23

DEBENTURES
Debentures; the investment aspect. Economist 98:728 Ap 5 '24
Floating charges and trade creditors. Economist 98:675 Mr 29 '24
German industrial debentures under the Dawes plan. C. C. Miller. Econ W n s 29: 294-5 F 2 '25; Same. Am Ind 25:45+ Mr '25

See also Bonds

DEBTOR and creditor
False financial statements; remedies of defrauded creditors. A. E. Fixel. 307p M. Bender & co., Albany '24

DEBTS
Debt—and its punishment. R: W. Saunders. Bankers M 109:211-12 Ag '24

See also Amortization; Bankruptcy; Credit

DEBTS, Public
Allied debts to America. Economist 100:641-2 Ap 4 '25
Application of banking methods to the settlement of the inter-allied debts. B: M. Anderson, jr. Econ W n s 29:89-91 Ja 17 '25
Bearing of the Dawes plan on our allied debts. G: E. Roberts. Econ W n s 27:917-19 Je 28 '24; Same abr. Am Bankers Assn J 16:795+ Je '24
Burden of internal debt. H. Withers. Annalist 23:156 Ja 28 '24
Business effects of international debt payments. Annalist 26:542+ O 30 '25
Debt cancellations from an English viewpoint. G: Paish. Ann Am Acad 120:30-5 Jl '25
Debt settlement. Index p 5-7 O '24
Debt settlement with Belgium. Nat City Bank p 142-5 S '25; Same. Econ W n s 30:377-9 S 12 '25
Detailed figures of the debts owed to the United States by foreign nations because of war loans. Econ W n s 29:811 Je 6 '25
Effect on United States of debt settlements. S. D. Fess. Comm & Fin Chr 121:1301 S 12 '25
European war debt payments, England's industrial position. F. Plachy, jr. Burroughs Clearing House 10:11+ O '25
Foreign loan item in your own income tax. W: P. Helm, jr. Am Bankers Assn J 17: 737-8 Je '25
How collection of foreign debt may affect business. Am Bankers Assn J 17:762+ Je '25
How our European debtors can pay. R. Estcourt. Annalist 22:793+ D 17 '23
If France should pay—. Comm & Fin 13:2372 D 10 '24
Increase of state bonded indebtedness in the United States. W: P. Helm, jr. Econ W n s 28:593-4 O 25 '24
Indebtedness of allied countries to Great Britain on account of war loans. Econ W n s 29:738 My 23 '25
Inter-allied debt. Economist 100:43-4, 287-9 Ja 10, F 14 '25
Interally debts. N. Roosevelt. Annalist 23: 525+ My 5 '24
Inter-ally debts; an analysis of war and post-war public finance, 1914-1923. H. E. Fisk. 369p Bankers trust co., New York '24
The Inter-ally debts and the United States. Index p 5-7 Jl '25
Inter-ally debts and the United States. 290p National industrial conference board, New York '25
International debt problem. G. Cassel. Am Bankers Assn J 18:1-3 Jl '25; Same. Econ W n s 30:112-14 Jl 25 '25
International debt question. R. W. Boyden and others. Ann Am Acad 120:36-64 Jl '25
Latest figures on foreign debts. Forbes 16: 519 Jl 15 '25
Luxury imports will carry Europe's debt payments. A. W. Lahee. Annalist 26:309 S 11 '25
Moving toward war debt settlement. Bradstreet's 53:337 My 23 '25
National debt figures are misleading. C: E. Lyon. Am Bankers Assn J 16:822 Je '24
National government loans. W: L. Raymond. 275p Barron's, Boston, New York '25
National indebtedness of United States and larger European countries. Comm & Fin Chr 121:944 Ag 22 '25; Same. Manuf Rec 88:85-6 Ag 20 '25
Obligations of foreign governments held by the United States treasury, together with interest accrued as of December 15, 1923. Fed Res Bul 10:9 Ja '24
Payments on account of war debts made to United States by five nations—Great Britain's payment $68,310,000. Comm & Fin Chr 120:3136 Je 20 '25
Possibility of a demand from debtor countries to pay in goods instead of money. A. R. Marsh. Econ W n s 27:183-4 F 9 '24
Present status of the war debts of foreign countries to the United States. Econ W n s 30:306-7 Ag 29 '25
Le problème des dettes interalliées. M. Lambert. Chimie & Ind 14:481-6 S '25
Public debts and private loans. T. H. Price. Comm & Fin 14:330 F 18 '25
Reports attributed to Otto H. Kahn on war debt issue denied by Kuhn, Loeb & co.—James W. Gerard and G. W. Wickersham likewise make denials. Comm & Fin Chr 120:2756 My 30 '25
Representative Theodore E. Burton says sentiment is against release of foreign debts —Roland W. Boyden looks for revision of debts. Comm & Fin Chr 119:1014-15 Ag 30 '24
Request for payment of the war debts. Comm & Fin Chr 120:2607-8 My 23 '25
Return of Otto H. Kahn from Europe—remarks attributed to him regarding war debts without basis in fact. Comm & Fin Chr 120:3009 Je 13 '25
Should the United States be reimbursed by debtor countries and how? G: E. Roberts. Ann Am Acad 120:23-9 Jl '25
Sound principles for dealing with our foreign debts. C: E. Mitchell. Am Bankers Assn J 17:426+ Ja '25
Study of the economic effects of the payment of foreign government debts to the United States. Econ W n s 29:882-3 Je 20 '25
Taxable capacity and the burden of taxation and public debt. G. F. Shirras. Roy Statis Soc J 88:513-44; Discussion. 545-56 Jl '25
Those international I O U's. A. H. Temple. Comm & Fin 14:161-2 Ja 21 '25
Transfer problem—bugaboo of our foreign trade and investment operations. G: P. Auld. Annalist 25:773-4+ Je 8 '25
Triangular exchange in payment of Europe's debts. J: Oakwood. Annalist 26:3-4 Jl 10 '25

DEBTS, Public—*Continued*
United States seeks completion of debt funding negotiations before meeting of Congress. Comm & Fin Chr 121:1169 S 5 '25
Unpaid war debts due United States. Comm & Fin Chr 121:929 Ag 22 '25
What effect—if any—will foreign debt repayments have on the domestic sales situation? interview with G: E. Roberts. R. W. Johnson. Sales Management 9:569-70+ O 31 '25
World afraid of production. B: M. Anderson, jr. Chase Econ Bul 5:3-34 Ag 24 '25; Same cond. Comm & Fin Chr 121:1178-81 S 5 '25; Excerpt. Annalist 26:256 Ag 28 '25

See also Bonds, Government; Municipal bonds; State bonds; World war foreign debt commission

Australia

Public debt of the commonwealth of Australia on March 31, 1925. Econ W n s 30:127 Jl 25 '25

Belgium

Agreement signed at Washington for funding of Belgium's war debt to United States. Comm & Fin Chr 121:926-9 Ag 22 '25
Belgian debt agreement. Fed Res Bul 11:603-4 S '25
Belgian settlement and after. Economist 101: 295-6 Ag 22 '25
Debt settlement with Belgium. Nat City Bank p 142-3 S '25; Same. Econ W n s 30:377-8 S 12 '25
Senator Borah questions reasons for settlement of Belgian debt. Comm & Fin Chr 121:1042-3 Ag 29 '25
Status of Belgium's war debt to the United States. D: H. Miller. Econ W n s 30:233-4 Ag 15 '25
Terms for funding Belgium's debt. Bankers M 111:608-11 O '25

Canada

Canada's public debt on December 31, 1924. Econ W n s 29:127 Ja 24 '25
Heavy increase of public indebtedness in Canada since 1913. Econ W n s 27:882-3 Je 21 '24
Public debt of Canada on March 31, 1925. Econ W n s 29:667 My 9 '25

Czechoslovakia

Agreement on Czechoslovakia's debt. Bradstreet's 53:673-4 O 17 '25
Agreement reached for funding of Czechoslovakia's war debt to the United States. Comm & Fin Chr 121:1861-2 O 17 '25

Egypt

Egyptian tribute loans. Economist 101:5-6 Jl 4 '25
Public debt of Egypt. Economist 99:413-14 S 13 '24

Esthonia

Agreement for the funding of Esthonia's indebtedness to the United States. Econ W n s 30:667 N 7 '25

Finland

House and Senate pass bill for settlement of indebtedness of Finland to United States; text. Comm & Fin Chr 118:1214-15 Mr 15 '24

France

Chancellor Churchill on attitude toward French government's debt to Great Britain. Comm & Fin Chr 120:769-70 F 14 '25
Conditions governing France's payments. Index p 4-6 O '25
Correspondence between Charles Piez and Senator Borah on propriety of rejecting debt terms offered by France. Comm & Fin Chr 121:2224-5 N 7 '25
Credit of France. Moody's Inv Serv 17:3 Ja 2 '25
France and the American debt. Comm & Fin Chr 120:496-8 Ja 31 '25
France replies to Great Britain's note seeking settlement of war debt. Comm & Fin Chr 121:146 Jl 11 '25
France—the problem of the floating debt. Economist 100:710-11 Ap 11 '25
France's debt to the United States. Moody's Inv Serv 17:332 O 8 '25
French debt. Nat City Bank p 183-6 N '25
French debt funding prospects. Index p 3-5 D '24
French debt mission. Comm & Fin Chr 121: 929-30, 1412-13, 1527-8, 1744-5 Ag 22, S 19-26, O 10 '25
French debt problem. H. G. Moulton and C. Lewis. 459p Macmillan '25; Excerpt. Annalist 26:339 S 18 '25
French mission scheduled to confer in Washington on war debt in fall—American credits needed by France. Comm & Fin Chr 121:29-30 Jl 4 '25
Funding of French war debt to United States. Comm & Fin Chr 119:2709-12 D 13 '24
Funding of French war debt to United States—proposals of E. N. Hurley and Herriot government. Comm & Fin Chr 119:1347-8 S 20 '24
Great Britain seeks settlement of war debts due from France and other nations. Comm & Fin Chr 121:30-1 Jl 4 '25
Hurley plan for the payment of the debt of France to the United States. A. R. Marsh. Econ W n s 28:399-400 S 20 '24
Moratorium essential to French fiscal stability. H. G. Moulton. Annalist 26:403+ O 2 '25
Need of France for moratorium. J. J. Jusserand. Comm & Fin Chr 119:2948-9 D 27 '24
New York bank on the settlement of the debt of France to the United States. Econ W n s 28:450-1 S 27 '24; Same. Index p 5-7 S '24
Present situation of the public debt of France. Econ W n s 29:919 Je 27 '25
President Coolidge agrees that material debts as well as debts of gratitude, should be paid; Premier Herriot declares France does not intend to repudiate debts. Comm & Fin Chr 120:526-7 Ja 31 '25
Public debt of France at the end of 1923. Econ W n s 27:883 Je 21 '24
Revolutionary debt to France settled in full before 1796, according to article based on book of Albert Gallatin. H: W. Cannon. Comm & Fin Chr 121:788-9 Ag 15 '25; Same abr. Econ W n s 30:89-90 Jl 18 '25
Secretary Mellon's analysis of the indebtedness of France to the United States. Econ W n s 30:521-2 O 10 '25
Senate discussion of French war indebtedness. Comm & Fin Chr 120:33-4 Ja 3 '25
Senator Borah in answer to M. Marin on war debt stand of United States—United States not exacting creditor. Comm & Fin Chr 120: 781-3 F 14 '25
Shipment from France of $6,000,000 in gold on account of interest on war supply indebtedness. Comm & Fin Chr 121:654 Ag 8 '25
Tentative agreement for adjustment of French indebtedness to Great Britain. Comm & Fin Chr 121:1041-2 Ag 29 '25
Termination of conferences between French and United States debt missions. Comm & Fin Chr 121:1630-2 O 3 '25
Views on French debt. R. C. Dawes. Comm & Fin Chr 121:2222-4 N 7 '25

Germany

Germany attempts to regulate foreign borrowings. W: F. Collins. Annalist 26:211 Ag 21 '25
Latest plan for revaluing public debts in Germany on a gold mark basis. Econ W n s 29:487 Ap 4 '25
Revaluing of German debts critical issue. Annalist 25:348+ Mr 9 '25

See also Bonds, Government—Germany

Great Britain

Discussion on the national debt. Econ J 35: 351-65 S '25
New means for the rapid extinction of the British national debt. G. de F. Gerbino. Econ J 35:233-44 Je '25

DEBTS, Public—*Continued*

Greece

Public debt of Greece. J. R. Mood. U S Bur For & Dom Com Trade Information Bul 321:1-21 '25

Hungary

Congress passes bill authorizing settlement of Hungarian debt to United States. Comm & Fin Chr 118:2511-14 My 24 '24

Italy

Conversations on funding of Italy's war debt to United States adjourned until August—Italy's indebtedness to Great Britain. Comm & Fin Chr 121:31-2 Jl 4 '25

Count Volpi to head Italian debt mission to United States. Comm & Fin Chr 121:1169-70 S 5 '25

Italian view of Italy's war debt to England. L. Caselli. Annalist 26:7 Jl 10 '25

Italy creates debt bureau—case of her war obligation to be presented here. Comm & Fin Chr 121:933 Ag 22 '25

Italy not in position at present to consider funding of war debts. Comm & Fin Chr 120:3011 Je 13 '25

Italy's debt to the United States and allies debt to Italy. Comm & Fin Chr 120:891-2 F 21 '25

Italy's impossible burden of war debts. F. L. Minnegerode. Annalist 26:447 O 9 '25

Reduction of the public debt of Italy. R. Angelone. Econ W n s 28:521-2 O 11 '24

Japan

Movement of the public debt of Japan during 1924. Econ W n s 29:378 Mr 14 '25

National debt of Japan as at March 31, 1924. Econ W n s 28:91 Jl 19 '24

Jugoslavia

Agree on Yugoslav debt propositions. Comm & Fin Chr 120:3138 Je 20 '25

Latvia

Latvia agrees to refunding of war debt to United States of $5,775,000. Comm & Fin Chr 121:1524 S 26 '25; Same. Econ W n s 30:451 S 26 '25

Mexico

Disbursement of interest on Mexican bonds deposited under readjustment plan. Comm & Fin Chr 118:2515-16 My 24 '24

Failure of Mexico to pay interest on bonds under debt readjustment agreement. Comm & Fin Chr 120:142 Ja 10 '25

Good faith of Mexico. Economist 101:528-9 O 3 '25

Mexico fails to remit for interest due July 1 on external debt. Comm & Fin Chr 119:25-6 Jl 5 '24

New agreement regarding the liquidation of Mexico's foreign debt. Econ W n s 30:631 O 31 '25; Excerpt. Comm & Fin Chr 121:1983 O 24 '25

Plan for readjustment of Mexican debt declared operative. Comm & Fin Chr 117:2486-7 D 8 '23

Nicaragua

Nicaragua pays off last of local debt. Comm & Fin Chr 119:265-6 Jl 19 '24

Poland

Movement of Poland's public debt in the first half of 1925. Econ W n s 30:379 S 12 '25

Polish Senate ratifies agreement for funding of that government's indebtedness to United States. Comm & Fin Chr 120:1033-5 F 28 '25

Terms for refunding of Polish government's debt to United States. Comm & Fin Chr 119: 2484 N 29 '24; Same. Econ W n s 28:811 D 6 '24

Rumania

United States seeks settlement of Rumanian indebtedness. Comm & Fin Chr 120:2220-1 My 2 '25

Russia

Russian debt to France. Economist 99:1047-8 D 27 '24

Turkey

Turkey's foreign debt. J. R. Mood. U S Bur For & Dom Com Trade Information Bul 268:1-16 '24

United States

Annual report of Secretary of the treasury. A. W: Mellon. Comm & Fin Chr 119:2596-8 D 6 '24

Bonded indebtedness of the states. Econ W n s 30:234 Ag 15 '25

Census bureau's figures for public indebtedness and taxation in the United States, 1912-1922. Econ W n s 29:127 Ja 24 '25

Completed return showing net debt as of September 30, 1924. Comm & Fin Chr 119:2847-8 D 20 '24 [continued monthly]

Facts of the billion and a half dollar states' debt. E: C. Delafield. Annalist 25:836 Je 22 '25

Grand total of public indebtedness of all kinds in the United States in 1922-1923. Econ W n s 27:90-1 Ja 19 '24

National survey of state debts and securities. 80p Bank of America, New York '25

Public debt and taxes. Comm & Fin 13:254 Ja 30 '24

Rapidly increasing indebtedness of American cities and the purposes for which it was incurred. W: P. Helm, jr. Econ W n s 28: 701-2 N 15 '24

Revolutionary debt to France settled in full before 1796, according to article based on book of Albert Gallatin. H: W. Cannon. Comm & Fin Chr 121:788-9 Ag 15 '25; Same abr. Econ W n s 30:89-90 Jl 18 '25

Senator Shipsted's objections. Am Bankers Assn J 16:618-19 Ap '24

Soldiers' bonus and sinking fund raids. E: A. Bradford. Annalist 23:364+ Mr 24 '24

Speeding out of debt. R. A. Lewis, jr. Am Bankers Assn J 18:75-6+ Ag '25

State and municipal compendium of the Commercial and financial chronicle; New England, Middle and Central states (formerly State and city section). Comm & Fin Chr 120:5-208 sec 2 Je 27 '25 [published annually in June]

State and municipal compendium of the Commercial and financial chronicle; Western, Pacific and Southern states, territories and possessions (formerly State and city section). Comm & Fin Chr 119:1-247 sec 2 D 27 '24 [published annually in December]

DEBYE-HÜCKEL equation

Activity of strong electrolytes; the application of the Debye-Hückel equation to alcoholic solutions. G: Scatchard. Am Chem Soc J 47:2098-2111 Ag '25

DECAHYDRONAPHTHALENE

Spatial structure of *cyclo*paraffins; a new aspect of Mohr's theory and the isomerism of decahydronaphthalene. W. A. Wightman. Chem Soc J 127:1421-4 Je '25; Discussion. Soc Chem Ind J (Chem & Ind) 44:605-6 Je 12 '25

DECARBURIZATION. See Steel—Decarburization

DECATUR, Illinois

Rapid transit

Buses amplify transportation in Decatur, Ill. il map Elec Ry J 64:909-11 N 29 '24

Modern buses create traffic; co-ordination of service in Illinois city. il Bus Transportation 3:513-14 N '24

Water supply

Effect of the new impounding reservoir on filter plant operation at Decatur, Ill.; with cost tables. W: E. Stanley and E. E. Ruthrauff. Am Water Works Assn J 12:110-26 S '24; Same. Eng & Contr (W W) 61:1076-81 My 14 '24

DECEDENTS' estates. See Estates, Decedents'

DECELEROMETER
Decelerometer for testing automobile brakes. W: S. James. il Soc Auto Eng J 13:499-501, 522-3 D '23

DECIMALS
See also Metric system

DECOIC acid. See Capric acid

DECOLORIZATION
Absorbent and decolorising carbons. E. R. Sutcliffe. Soc Chem Ind J (Chem & Ind) 43: 635-6 Je 20 '24
Action of fuller's earth on vegetable oils. D: Wesson. Am Inst Chem Eng Trans v 15 pt 1:361-6 '23
La bauxite comme agent de raffinage des produits distillés du pétrole. A. Guiselin. diag Chimie & Ind 12:423-40 S '24; Same. Inst Pet Tech J 10:918-46 D '24
Bleaching of animal and vegetable oils and fats. B. Hassel. Chem Age (Lond) 13:346-7 O 3 '25
Comparative ash adsorption of vegetable and bone chars. P. M. Horton and P. T. Sengson. Ind & Eng Chem 16:165-7 F '24
Contact filtration likely to become important feature in refining. W. S. Zehrung. Nat Pet N 16:27-8+ Je 4 '24
Decolorization of lubricating oils by the contact method. A. R. Moorman. Nat Pet N 17:84+ Jl 22 '25
Manufacture and application of decolorizing carbons. Chem & Met Eng 30:441+ Mr 17 '24
Reactivation of decolorising carbon. Chem Age (Lond) 10:289 Mr 22 '24
Removal of color from fabrics. Am Dyestuff Rep 14:276-7 Ap 20 '25
Test for relative decolorizing efficiencies of clays. J. B. Hill, L. W. Nichols and H. C. Cowles, jr. Ind & Eng Chem 17:818-19 Ag '25
Testing decolorizing carbons. J: E. Teeple and P. Mahler. Ind & Eng Chem 16:498-500 My '24
United States patents on bone black and decolorizing carbons. W. D. Horne. Ind & Eng Chem 16:670 Jl '24

See also Bleaching; Fuller's earth

DECOMPOSITION
Comparison between the homogeneous thermal decomposition of nitrous oxide and its heterogeneous catalytic decomposition on the surface of platinum. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 127:327-36 F '25
Decomposition potentials and polarization of certain heavy metallic chlorides dissolved in anhydrous pyridine. R. B. Mason and J. H. Mathews. diags J Phys Chem 29:1379-93 N '25
Homogeneous gas reaction; the thermal decomposition of chlorine monoxide. C. N. Hinshelwood and C: R. Prichard. diag Chem Soc J 123:2730-8 N '23
Influence of colloids on the rate of reactions involving gases; decomposition of hydrogen peroxide and of nitrosotriacetonamine. A. Findlay and W: Thomas. Chem Soc J 125: 1244-52 Je '24
Initial rate of decomposition of nitrogen pentoxide. E. C. White and R: C. Tolman. diags plan Am Chem Soc J 47:1240-55 My '25
Periodic catalytic decomposition of hydrogen peroxide. E. S. Hedges and J. E. Myers. Chem Soc J 125:1282-7 Je '24
Photochemical decomposition of nitrosyl chloride. E. J: Bowen and J: F: Sharp. Chem Soc J 127:1026-8 My '25
Rate of decomposition of nitrogen pentoxide at low concentrations. J. K. Hunt and F. Daniels. diag Am Chem Soc J 47:1602-9 Je '25
Spontaneous decomposition of butter fat. C. A. Browne. Ind & Eng Chem 17:44-7 Ja '25
Study of the mechanism of the catalytic decomposition of ethyl acetate by nickel at various elevated temperatures. J. N. Pearce and C. N. Ott. J Phys Chem 28:1201-10 N '24
Thermal decomposition of ammonia upon various surfaces. C. N. Hinshelwood and R. E. Burk. Chem Soc J 127:1105-17 My '25
Thermal decomposition of methane. R. C. Cantelo. J Phys Chem 28:1036-48 O '24
Thermal decomposition of silver carbonate. M. Centnerszwer and B. Bružs. J Phys Chem 29:733-7 Je '25
Thermal decomposition of sodium, barium and cadmium dithionates in water solution. J. Cornog and W. E. Henderson. Am Chem Soc J 46:1978-80 S '24
Two heterogeneous gas reactions. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 123:2725-9 N '23
Unimolecular decomposition of phosphine. C. N. Hinshelwood and B. Topley. diag Chem Soc J 125:393-406 F '24

See also Hydrolysis

DECOMPOSITION, Heat of
Heats of solution and of decomposition of chlorine dioxide. H: Booth and E. J: Bowen. Chem Soc J 127:342-5 F '25

DECORATION, Interior. See Interior decoration

DECORATION and ornament
Ornament in applied art. H. T. Bossert, ed. 35p, 122 pl E. Weyhe, New York '24
Pour comprendre l'art décoratif moderne en France. H: Verne and R. Chavance. 288p Hachette, Paris '25
Principles of decoration. R: G: Hatton. 224p Scribner '25

See also Bronzes; Calico printing; Church decoration; Design, Decorative; Drapery; Enamel and enameling; Fresco painting; Metalwork, Artistic; Pottery; School decoration; Textile design; Textile printing

Exhibitions
L'exposition internationale des arts décoratifs et industriels modernes, Paris, avril-octobre 1925. P. Calfas. il plans Génie Civil 86: 525-31 My 30 '25

DECORATION and ornament, Architectural
Beaux-arts institute of design; student work—the decoration of a cabaret. il Am Arch 125: 127-32 Ja 30 '24
Concrete and creative architecture. W: L. Woollett. il Eng & Contr (Bldgs) 60:1366-8 D 26 '23
Decorative treatment of the Schrafft stores. C: E. Birge. il Arch Forum 40:261-3 Je '24
Heraldry in architecture. Am Inst Arch J 13: 35-7 Ja '25
Ornamental shop fronts. P. M. Hooper. il Arch Forum 40:265-8 Je '24
System of architectural ornament according with a philosophy of man's powers. L: H: Sullivan. 12p Am. inst. of arch., New York '24
Use of Indian motifs in theater decoration. M. A. Rolfe. il Arch Forum 42:391-2, pl 69-70 Je '25

See also Architecture—Details; Church decoration; Color in architecture; Columns; Concrete, Ornamental; Friezes; Graffito decoration; Interior decoration; Iron work, Architectural; Mosaic; Mural painting and decoration; Pediments; Stained glass; Stucco; Terra cotta; Woodwork

DECORATION and ornament, Spanish
Spirit of the old Spanish in modern decoration. il Am Arch 126:573-80 D 17 '24

DEEP-SEA sounding
Hydrography; deep-sea soundings, Atlantic and Pacific oceans and Caribbean sea, 1919 and 1922. 30p U.S. Coast and geodetic survey, Washington '23

DEEPWATER coal and iron corporation
Northern industrial leaders active in development of Alabama coal and iron lands. R: W. Edmonds. Manuf Rec 85:77-8 Mr 27 '24

DEFALCATIONS. See Embezzlement

DEFENSE day
Defense day. Comm & Fin Chr 120:2869-70 Je 6 '25

DEFENSE day—*Continued*
Defense day test to-day—July 4—demonstration on Armistice day opposed by President Coolidge. Comm & Fin Chr 121:34-5 Jl 4 '25

DEFERRED payment. See Instalment plan

DEFERRED rebates. See Freight rates

DEFOREST, Lee, 1873-
Life and work of Lee DeForest. por Radio N 6:464-5+, 658-9+, 912-13+, 1154-5+, 1402-3+, 1636-7+, 1870-1+, 2066-7+, 2212-13+; 7:26-7+, 152-5+, 287-8+, 414-15, 602-3+ O '24-N '25

DEFORMATIONS (mechanics)
Analysis of the deformation of the mooring spindle of the Shenandoah. L. B. Tuckerman and C. S. Aitchison. il U S Bur Stand Tech Pa 270:609-18 '25

Constructions hyperstatiques à éléments droits. P. Thomas. diags Génie Civil 86: 434-7 My 2 '25

Deflection of beams with special reference to shear deformations. J. A. Newlin and G. W. Trayer. il diags U S Nat Advisory Com for Aeronautics 1923:357-73 '24

Déformations des constructions usuelles. L: Rousselet & A. Petitet. 290p Dunod, Paris '23

Effect of free surfaces on the plastic deformation of certain metals. F. C. Thompson and W. E. W. Millington. bibliog diag Iron & Steel Inst J 110:61-74, pl 4; Discussion. 75-84 no 2 '24

Studies on the deformation of tungsten single crystals under tensile stress. Philos Mag 6th ser 48:800-19, pl 16-24 N '24

Temperature deformations in concrete arches. H. Cross. Eng & Contr (Bldgs) 64:927-8 O 28 '25

Zur frage der bildsamen formänderung. H. Preussler. diags Stahl & Eisen 45:1422-8 Ag 20 '25

See also Extensometer; Strains and stresses; Torsion

DEGASIFICATION of water. See Water—Deactivation and deaeration

DEGREE day. See Heat units

DEGREES, Academic
Four-years course and after. J. B. Whitehead. J Eng Educ 15:184-9 N '24

What is the meaning of the B.S. degree in engineering? H. S. Evans. J Eng Educ 15: 529-37 Mr '25

DEGUMMING (textiles)
California develops new retting process. Chem Age 33:61-2 F '25

DEHYDRATERS. See Drying apparatus

DEHYDRATION
Catalytic dehydration of alcohols. A. B. Brown and E. E. Reid. J Phys Chem 28: 1077-81 O '24

Catalytic dehydration of ethyl alcohol and ether by alumina. R. N. Pease and C. C. Yung. diag Am Chem Soc J 46:390-403 F '24

Clarification and dehydration of liquids; some applications of the Sharples super-centrifuge. il Chem Age (Lond) 11:396-7 O 18 '24

Dehydration of alcohol by means of glycerin. E. Knecht and E. F. Muller. Soc Chem Ind J 43:177-8 Je 6 '24

Dehydration of alcohols over alumina. H. Adkins and P. P. Perkins. Am Chem Soc J 47:1163-7 Ap '25

Dehydration of ammonium nitrate. T. L. Davis and A. J. J. Abrams. Am Chem Soc J 47: 1043-5 Ap '25

Dehydration of insulating oil. il Electrician 91:520-1 N 9 '23

Dehydration of peat by the use of alcohol. H. M. Spiers. Soc Chem Ind J 42:455-6 N 23 '23

Dehydration of the optically active methyl- and ethyl-hydrobenzoins. A. McKenzie and R. Roger. Chem Soc J 125:2148-55 O '24

Dehydration temperature of pyrophyllite and sericite. J. L. Stuckey. Am Cer Soc J 7: 735-7 O '24

Dehydrogenation and dehydration of alcohols over a zinc oxide catalyst. W. A. Lazier and H. Adkins. Am Chem Soc J 47:1719-22 Je '25

Étude sur la déshydratation des vapeurs alcooliques par la glycérine et les solutions glycérineuses. Mariller. il diag Chimie & Ind 10:643-55 O '23

Other waste emulsions incidental to manufactured gas production. G. A. Simmons. diag Am Gas Assn Technical sec v 6:1431-3 '24; Same. Gas Age 54:859+ D 20 '24; Discussion. Am Gas Assn Technical sec v 6: 1433-8 '24

See also Drying (fruit and vegetables); Petroleum—Dehydration

DEHYDRO-ACETIC acid
Structure of dehydro-acetic acid. C. F. Rassweiler and R. Adams. Am Chem Soc J 46: 2758-64 D '24

DEHYDROGENATION
Dehydrogenation and dehydration of alcohols over a zinc oxide catalyst. W. A. Lazier and H. Adkins. Am Chem Soc J 47:1719-22 Je '25

Organic reactions at the surfaces of dehydrogenating catalysts. H. Adkins and W. A. Lazier. Am Chem Soc J 46:2291-2305 O '24

Sulfurized chemical product. W. O. Snelling. Chemicals (Dyestuffs sec) 16:187-9 Je 22 '25

DEHYDROTHIO-PARA-TOLUIDINE
Researches on thiazoles; the preparation of dehydro-thio-para-toluidine and some of its derivatives. M. T. Bogert and F. D. Snell. diag Color Tr J 14:109-13, 151-4 Ap-My '24

DEHYDROTHIO-PARA-TOLUIDINE sulfonic acid
Analysis of dehydrothio-*p*-toluidine sulfonic acid. H. R. Lee and D. O. Jones. Ind & Eng Chem 16:930-1 S '24

DE-INKED paper. See Waste paper

DELAWARE
See Motor bus lines—Delaware

DELAWARE and Hudson railroad
Annual report, 94th, 1923. Comm & Fin Chr 118:2054-8 Ap 26 '24; Elec Ry J 63:675 Ap 26 '24

Annual report, 95th, for the year ended Dec. 31, 1924. Comm & Fin Chr 120:1895-8 Ap 11 '25

Delaware & Hudson to lease B. R. & P. map Ry Age 78:1161-3 My 9 '25; Ry R 76:872-3 My 9 '25

Review of previous recommendations regarding Delaware and Hudson issues. Moody's Inv Serv 16:344 S 11 '24

DELAWARE, Lackawanna and Western railroad
Annual report for the year 1923. Comm & Fin Chr 118:1932-4 Ap 19 '24

Annual report, for the year ending Dec. 31, 1924. Comm & Fin Chr 120:2161-3 Ap 25 '25

D.L. & W. directors review Truesdale administration. Ry Age 79:46 Jl 4 '25

John M. Davis, president. Ry Age 78:1453-4 Je 13 '25

DELAWARE river
Compact as to the water resources of the Delaware river between the commonwealth of Pennsylvania, the state of New Jersey and the state of New York. Am Water Works Assn J 13:160-82 F '25; Abstract. Eng N 94:233-4 F 5 '25

Delaware river compact waits further action by states. Eng N 94:784 My 7 '25

DELAWARE river bridge. See Philadelphia, Pennsylvania—Bridges

DELHI, California
California's land settlement at Delhi. N. A. Bowers. il Eng N 95:143-5 Jl 23 '25

DELIVERY of goods
Better delivery service at less cost through this assembly plan. W. H. Keane. System 45:848-9 Je '24

DELIVERY of goods—*Continued*
Dispatching the company's coke trucks. V. A. Miller. il Am Gas Assn Technical sec v 6:995-9 '24; Same. Gas Age 54:25-6 Jl 5 '24
How we get better deliveries at less cost. O: S. Grunbaum. il System 45:230+ F '24
How we insure dependable deliveries. L. R. Kissinger. il System 45:672+ My '24
Now our deliveries cost only 3½ cents a package. S. J. Shwartz. il System 48:175-7+ Ag '25
One delivery wagon instead of six; United parcel service. R. G. Faragher. Nation's Business 13:23-5 F '25
Problem of delivery equipment; baking industry. W. Eldred. Management & Adm 8: 599-604 D '24
Small-consignment commodity-distribution in London and its environs. J. Paterson. chart maps Soc Auto Eng J 15:352-8 O '24; Discussion. 16:326-9 Mr '25
Traffic—does it slow up your deliveries? H: Frommes. il Dom Eng 112:35+ Ag 22 '25
Why we know our costs almost to the minute. G: Heron. System 46:758+ D '24

See also Freight handling—Store door delivery; Motor bus lines—Parcel delivery; Motor trucks—Management; Shipment of goods

DELPHINIDIN chloride
Synthesis of pyrylium salts of anthocyanidin type; the synthesis of cyanidin chloride and of delphinidin chloride. D: D. Pratt and R. Robinson. Chem Soc J 127:166-75 Ja '25

DELTA rays
Emission of β- and δ-rays from a metallic film, and the relation to the quantum theory of scattering of X-rays. L. Simons. diags Philos Mag 6th ser 48:250-8 Ag '24

DEMAND. See Supply and demand

DEMBER effect
Positive rays produced by ultra-violet light. L. A. DuBridge. diags Phys R 25:201-7 F '25

DEMOCRACY
Some causes of the present discontent. N. M. Butler. Am Bankers Assn J 17:21-2+ Jl '24

DEMOCRATIC party
Democratic national convention. Comm & Fin Chr 118:3157-61; 119:36-41, 148-56, 160-1 Je 28-Jl 12 '24
John W. Davis, Democratic presidential nominee, declares against Ku Klux Klan—points of differences between Republicans and Democrats. Comm & Fin Chr 119:1015-17 Ag 30 '24
John W. Davis's speech accepting nomination as president on Democratic ticket. Comm & Fin Chr 119:770-3 Ag 16 '24
Speech of Governor Bryan of Nebraska accepting nomination as vice-president on Democratic ticket. Comm & Fin Chr 119: 903-5 Ag 23 '24

DEMONSTRATIONS. See Factory exhibits and demonstrations; Salesmanship—Demonstrations

DEMONSTRATORS
Hidden demonstrators unfair to consumer and advertiser. J: A. Murphy. Ptr Ink 125:3-4+ D 13 '23

DEMURRAGE
History of demurrage. J. F. Chalfant. Ry Age 78:891 Ap 4 '25
How demurrage is handled. Eng & Contr (R & S) 64:553-5 S 2 '25

DENATURED alcohol. See Alcohol, Denatured

DENIM
Manufacture of denim. J. W. Cox, jr. Textile World 65:231+ Ja 12 '24

DENISON bill. See Securities—Law

DENISON university, Granville, Ohio
Denison university, Granville, Ohio; views and plan. Am Arch 124:554a-1 D 19 '23

DENMARK
Denmark's attempt at national disarmament. Comm & Fin Chr 119:2004-5 N 1 '24
Plan to end army and navy arouses Danes. Comm & Fin Chr 119:2365 N 22 '24

See also Advertising—Denmark; Agriculture—Denmark; Bonds, Government—Denmark; Finance—Denmark; Housing—Denmark; Money—Denmark; Railroads—Denmark; Wages—Denmark

Economic conditions
Danish and Norwegian obligations. Moody's Inv Serv 17:173-6 My 21 '25
Economic and financial situation in Denmark. Econ W n s 30:479 O 3 '25
Economic and industrial conditions in Denmark during November, 1924. Comm & Fin Chr 119:2950 D 27 '24
Economic and industrial conditions in Denmark during February. Comm & Fin Chr 120:1690 Ap 4 '25
Economic and industrial conditions in Denmark during June. Comm & Fin Chr 121: 932 Ag 22 '25
Foreign securities in American markets. Annalist 22:846+ D 31 '23
Official statement of economic and industrial conditions in Denmark during August 1925. Comm & Fin Chr 121:1632-3 O 3 '25
Rise in bank rate; trade conditions; outlook for 1924. Economist 98:146 Ja 26 '24

Industries and resources
Denmark's credit. Moody's Inv Serv 16:141-4 Ap 3 '24

National board of health
Dietary regulations in public institutions of Denmark. L. S. Fridericia. Nation's Health 7:309-12 My '25

DENNIS, William Emmet
William Emmet Dennis; a record of fifty years on Chicago newspapers. E. Levine. por Inland Ptr 73:601-2 Jl '24

DENNISON manufacturing company
Automatic synchronous converter equipment at the Dennison manufacturing company. W. S. Fitch. il Gen Elec R 28:398-403 Je '25
Dennison company's works committee. F. Meine. Univ J of Business 2:81-111 D '23
How Dennison handles broad problems of management. R. W. Johnson. Sales Management 8:137-8+ Ja 24 '25
Sharing a business with its workers. R. R. Updegraff. il Forbes 15:398-400 Ja 1 '25
What Dennison spends and gets from advertising. H. W. Harney. Ptr Ink 129:49-50+ N 27 '24

DENNY, Harry S.
Mining engineers of note. W. A. Doman. por Eng & Min J 119:316 F 21 '25

DENSITY. See Specific gravity

DENTAL chemistry
Chemistry for dental students. H. C. Smith and R. M. Smith. 2v 4th ed., rev. & enl. 186p; 320p Wiley '23

DENTAL colleges
Statistics and standards of American dental colleges. J Eng Educ 15:242 D '24

DENTAL impression compounds
Plasticity of dental impression compound. W. S. Crowell and A. Saunders, jr. J Phys Chem 29:1267-81 O '25

DENTAL instruments and apparatus
Large uses of steel in small ways; dental drills. il Iron Tr R 75:1311-12 N 13 '24
Oil-immersed X-ray generating outfits and their uses. W. D. Coolidge. il diags Sibley J 39:254-7+, 318-21 Mr-Ap '25; Same. Gen Elec R 28:182-92 Mr '25

DENTAL metallurgy
Practical dental metallurgy. J. D. Hodgen. 6th ed., rev., 458p C. V. Mosby co., St Louis '24

DENTAL service
Oral hygiene program for children. J: C. Gebhart. Nation's Health 6:851-2 D '24

DENTAL service, Industrial
Preventive dentistry service for newspaper employees; Chicago Tribune employees' benefit plan. Nation's Health 7:194 Mr '25
Scope of work in an industrial dental clinic. R. W. Elliott. il Nation's Health 6:6-7+ Ja '24

DENTIFRICES

Advertising

Advertising displaces free deals and sampling in Iodent campaigns. A. J. Lauttmann. il Sales Management 6:1087-8 Je '24

DENTISTRY
Oral deformity may be prevented by dental orthopedics. M. J. Eisenberg. il Nation's Health 7:597-9 S '25

See also Dental service, Industrial; X-rays in dentistry

DENVER, Colorado
What's happening to speculation; where angels fear to tread. E. Dakin. Comm & Fin 14:201-3 Ja 28 '25

Rapid transit

Eight-cent fare at Denver upheld by U.S. district court. Elec Ry J 64:1056-7 D 20 '24
Plan of reorganization of the Denver tramway company. Comm & Fin Chr 120:2548-50 My 16 '25
Special master's findings questioned in Denver case. Elec Ry J 64:406-8 S 13 '24

Water supply

Denver's new water supply conduit. il diags Pub Works 56:271-5 Ag '25

DENVER & Rio Grande Western railroad
Annual report, year ended Dec. 31, 1924. Comm & Fin Chr 120:3059 Je 13 '25
D. & R.G.W. in transition period. diag Ry Age 78:563-6 Mr 7 '25
Denver & Rio Grande Western rebuilds shops. il diags plans Ry Age 76:1193-1200 My 17 '24
Denver & Rio Grande Western reorganization. Moody's Inv Serv 16:359, 439, 464 S 25, D 4, 26 '24
D. & R.G.W. reorganization plan approved. Ry Age 76:1522-3 Je 14 '24
Denver & Rio Grande Western takes on new life. Ry Age 76:1763-5 Je 21 '24
Gage changed on 46 mile line in 8 hrs. Eng & Contr (Ry) 62:1352-3 D 17 '24
Rail terminals rebuilt at Pueblo; properties of Denver & Rio Grande Western reconstructed to make room for large flood prevention channel. O. L. Hoebel. il diags maps Ry Age 79:705-10 O 17 '25
Receiver's report for 1923. Comm & Fin Chr 118:1905-6 Ap 19 '24

DENVER & Salt Lake railroad
Denver & Salt Lake railroad company's securities. Moody's Inv Serv 17:339 O 15 '25

DEODORIZATION
Abatement of industrial stenches by means of activated carbon. A. B. Ray and N. K. Chaney. il plan Am Inst Chem Eng Trans v 15 pt 1:347-53 '23; Same. Chem & Met Eng 28:1114-16 Je 25 '23; Discussion. Am Inst Chem Eng Trans v 15 pt 1:353-60 '23
Deodorizing salmon oil. H. K. Benson. Chem & Met Eng 31:627 O 20 '24
Waste sulphite liquor for deodorizing and preserving ammoniates. Chem Age 32:203 Ap '24

DEOXIDIZERS
Test magnesium as brass deoxidizer. C. V. Nass. il Foundry 53:527 Jl 1 '25

DEPARTMENT stores
Addition to department store of R. H. Macy & co., inc., New York. R. D. Kohn. il diags plans Am Arch 125:530a-7 Je 4 '24
Demonstrations that department stores are glad to stage. J. True. Ptr Ink 129:153+ O 16 '24
Does your mail go where you send it? M. Droke. Ptr Ink 126:25-6+ Mr 13 '24
Federal reserve bank of New York on department store sales since 1900. Comm & Fin Chr 119:2582 D 6 '24
Future developments in retailing. P. M. Mazur. Harvard Business R 2:434-46 Jl '24
Macy brings producer and consumer together; twenty-five electrical manufacturers unite in week's demonstration. Ptr Ink 131:10+ My 21 '25
Making hand-to-mouth buying profitable. B. P. Disque. il System 46:415-20+ O '24
Modern department store—its planning, construction and mechanical equipment. il plans Am Arch 125:255-61 Mr 12 '24
New building for Henry Morgan & co., Montreal. il Can Eng 46:183-6 Ja 29 '24
Promoting better home ideals in the department store. il Bldg Age 47:106-7 Ap '25
R. H. Macy & co.'s department store addition, New York city. Arch & Bldg 56:83-5, pl 174-6 S '24
Saks new department store, New York city. Arch & Bldg 56:91-2, pl 188-91 O '24
Sears-Roebuck retail stores planned to increase mail order sales. Sales Management 8:454 Mr 21 '25
Seasonal fluctuations in department-store stocks. Fed Res Bul 10:189-90 Mr '24
Up-to-date principles of store layout. il Am Exporter 95:47+ Jl '24
Volleys of turnovers. E. Dakin. Comm & Fin 14:815-17 Ap 29 '25
Who will dominate in the field of distribution? S. Bent. Am Bankers Assn J 18:321-2+ N '25
Why Eaton's is one of the world's great establishments. R. P. Crawford. Forbes 15: 815-17+ Ap 1 '25
Why should druggists fight department stores? Ptr Ink 131:109+ Ap 30 '25

See also Charge account (retail trade); Deposit accounts; Mail order business; *also* Macy, R. H. & co.

Accounting

Daily stock control. W. H. L. Hamilton. il System 48:270-2 S '25
Expense allocation. A. C. Hodge. Univ J of Business 3:255-73 Je '25
Modern retail methods, records and accounting. L. M. Comstock. 522p United States corporation co., New York '25
Retail organization and accounting control, modern principles and practice. P. I. Carthage. 349p International textbook co., Scranton, Pa. '24

Advertising

Can department stores compete with furniture manufacturers? C: G. Muller. Ptr Ink 130:57-8+ Mr 12 '25
Department-store copy begins to take a new tack. Ptr Ink 132:123-4 Jl 9 '25
Department store rates and the cost of the agate line. Ptr Ink 126:10+ Mr 27 '24
How we sold $21,608 by mail for 4.4%. J. G. Pattee. System 48:551-3 N '25
Is department-store copy due for a change? Ptr Ink 125:165+ N 8 '23
Must department store copy always feature bargains? Ptr Ink 132:10+ Jl 2 '25
Should advertising play tag with business conditions? P. S. Salisbury. Sales Management 8:861-2+ Je 13 '25

Automobile parking service

Where shall the shopper park? L: Rothschild. Nation's Business 13:21-3 N '25

Bargain basements

Going down; the vogue of bargain basements. E. Dakin. Comm & Fin 14:417-18 Mr 4 '25

Children's departments

We are building for future sales. A. E. Simmons. il System 47:33-5+ Ja '25

Costs

Operating expenses in department stores. il Am Exporter 94:43+ Ja '24

Employees

Apprenticeship system in a large Paris department store. J. Lesser. Taylor Soc Bul 10:206-7 Ag '25

DEPARTMENT stores—*Continued*

Finance

Bank loans to finance the installment buyer. B. Davenport. Am Bankers Assn J 18:312+ N '25

Floors

Marble floors for department stores. F. Z. Salomon. Eng & Contr (Bldgs) 61:1410-11 Je 25 '24

Heating and ventilation

Problems in ventilation of department stores. A. M. Feldman. plans Am Soc Heat & V E J 30:24-8 Ja '24

Infants' departments

How we solved the price problem in selling to department stores. G: F. Earnshaw. il Sales Management 8:295-6+ F 21 '25

Insurance requirement

Advice to department stores on fire prevention and insurance problems. W. F. Kimball. Credit M 27:16-17 O '25

Why not get all the coverage you pay for? T: W. Friedrich. System 48:212-13 Ag '25

Libraries

Company library that pulls whole organization together. G: W. Gray. il Ptr Ink M 9:65-6+ S '24

W. T. Grant company library. G. D. Aikenhead. Special Lib 16:268-9 O '25

Lighting

Retaining the half-tones with artificial lighting. L. R. Colby. System 47:520+ Ap '25

Management

And now—the mail-order chain of department stores. G. A. Nichols. Ptr Ink 132:33-4+ S 24 '25

Coming changes in retail distribution; organizing department stores into chains. E: A. Filene. Ptr Ink 127:134+ My 8 '24

Department leasing by department stores. C: G. Muller. Ptr Ink 128:57-8+ Jl 24 '24

Department store displays. L. A. Rogers. il Dun's Int R 43:42-4 Je '24

Has the department store merchandising man outlived his usefulness? E. Whitmore. Sales Management 6:261-2, 562+ D '23, F '24

Improving department store technique. B. E. Lies. Taylor Soc Bul 10:185-90 Ag '25

Is mass buying becoming an actual menace? more and better advertising will ward it off. Ptr Ink 130:49-50+ Ja 22 '25

It pays to risk cashing checks. T: J. Malone. Nation's Business 11:56+ D '23

Linking department stores. Comm & Fin 14: 502 Mr 18 '25

Logic of department-store organization. P. M. Mazur. Harvard Business R 3:287-96 Ap '25

Mass buying and mass selling, too; chain department stores. E: A. Filene. Nation's Business 12:24-6 S '24; Discussion. 12:34-6 N '24

Merchandise control. H. B. Wess. 126p Dry goods economist, 239 W. 39th st., New York '25

Merchandise manager and his manifold duties. il Am Exporter 95:39+ S '24

Merchants' manual. L. Hahn and P. White. 605p McGraw-Hill '23

Saving $1,000 every business day. H. T. Morgan. System 47:741-6+ Je '25

Selling calendar—how it affects profits. E: A. Filene. il System 45:37-40+ Ja '24

Separation of the buying and selling functions in a department store. Harvard Business R 2:362-7 Ap '24

Stock control in department stores. A. Lazarus. 77p Dry goods economist, New York '25

They can always make change. J. J. Osserman. il System 47:102-3+ Ja '25

We have a policy that pushes our business forward and has for 30 years. L. M. Jones. System 48:409-13+ O '25

What is wrong with department stores? Ptr Ink 125:33-4 D 27 '23

Statistics

Department-store sales. Survey of Cur Business 30:152 F '24 [continued quarterly]

Department store sales, by Federal reserve districts. See monthly numbers of Federal reserve bulletin

Department store sales in Federal reserve district of New York. Comm & Fin Chr 119:2465-6 N 29 '24 [continued monthly]

Development of department store trade statistics in 1924-25. Fed Res Bul 11:474-7 Jl '25

Increase in department store sales in Federal reserve district of New York in October. Comm & Fin Chr 117:2372 D 1 '23 [continued monthly]

DEPLETION

Discovery clause in income tax laws; its inequalities and abuses. A. H. Fay. Eng & Min J 117:243-5 F 9 '24

Senate investigation of depletion allowances. Min Cong J 11:231-3 My '25

DEPOLARIZATION (electrical)

Potassium bichromate as depolarizer. G. P. Vincent. J Phys Chem 29:875-81 Jl '25

DEPOSIT accounts

Combining the advantages of both cash and credit business. J. S. Bancroft. System 47: 402-3 Mr '25

DEPRECIATION

Argument in favor of depreciation on replacement values. N. D. Farmer. Paper Tr J 78:55-8 Mr 27 '24

Depreciation claims for tax exemption. L. L. Thwing. Am Mach 63:388 S 3 '25

Depreciation exemption is not always approved by tax commission. Am Mach 62: 580 Ap 9 '25

Depreciation is engineering rather than accounting problem. H. Tipper. Automotive Ind 50:884-5 Ap 17 '24

Depreciation principles; A.E.R.A. files brief. Aera 12:1496-1500 Ap '24; Same cond. Elec Ry J 63:339-40 Mr 1 '24

Depreciation rate for water works structures and equipment. Eng & Contr (W W) 61: 1309 Je 11 '24

Determination of net earnings available for bond interest. P. W. Brown. Harvard Business R 2:219-23 Ja '24; Same. Paper Tr J 78: 53-5 Ja 24 '24

Handling of obsolescence by manufacturers. Am Mach 62:583 Ap 9 '25

Interest and depreciation. Power 61:844 My 26 '25

Is depreciation the bugaboo of your income tax? H. A. Harris. System 45:331-3+ Mr '24

New forms of depreciation schedules. G. W. Greenwood. Management & Adm 7:689-92 Je '24

Obsolescence. T: J. Burke. Paper Tr J 78: 55-7 Ja 17 '24

Power plant depreciation factors. Management & Adm 8:631 D '24; Same. Paper Tr J 80:62 Ap 9 '25

Recording depreciation. D. Rice. Paper Tr J 80:60 F 19 '25

Rubber machinery depreciation. R. Polleys. India Rubber W 71:217-18 Ja '25

Setting up depreciation reserves. W. E. Oberle. Eng N 95:278-9 Ag 13 '25

Shipper's interest in depreciation. Ry Age 77:5, 49, 144, 188, 226, 227-8 Jl 5-12, 26-Ag 9 '24

$10,000 airplane engine depreciates $10.60 per hour of service. A. Black. Automotive Ind 53:411-13 S 10 '25

Treatment of depreciation by public utilities. L. Harr. Gas Age 55:481-2 Ap 4 '25

See also Depletion

DEPTH finder. See Sounding

DERAILS

Automatic derails protect grades. il Elec Ry J 65:1008 Je 27 '25

DERAILS—*Continued*
Electric derail protects bridge crossing. plan Elec Ry J 65:225-6 F 7 '25; Same. Eng & Contr (Ry) 63:571-2 Mr 18 '25
Use of derails. Ry R 73:727-9 N 17 '23

DERN, George H.
Mining engineers of note. Eng & Min J 119: 156 Ja 24 '25

DESERT roads. See Roads, Desert

DESERT varnish. See Rocks

DESERTS
See Great Salt Lake desert

DESICCATION. See Drying

DESIGN
Dissertation on dynamic symmetry. C. Bragdon. il diags Arch Rec 56:305-15 O '24
Dynamic symmetry as applied to pottery. G. M. A. Richter. il diags Am Cer Soc J 8: 131-7 Mr '25
Dynamic typography. J. C. Hertzog. Inland Ptr 74:390-2 D '24
Is art on the decline as business asset? W. Fawcett. il Forbes 16:451-2 Jl 1 '25
Personality in design. il Am Arch 128:55-60 Jl 15 '25
Synthetic harmony—; a study in concrete beauty; satire. G. L. Kaufman. il diags Arch Rec 57:353-8 Ap '25
Typography and the Greek vase. J. C. Hertzog. il diag Inland Ptr 75:916-17 S '25
Typography and the Parthenon. J. C. Hertzog. il Inland Ptr 76:243-4 N '25

See also Airplanes—Design; Architecture, Domestic—Designs and plans; Automobiles—Design; Bridge design; Concrete construction—Design; Locomotives—Design; Machine tools—Design; Machinery—Design; Pattern making; Structures, Theory of; Textile design

DESIGN, Decorative
Art in industry. R: F. Bach. il Am Cer Soc J (Bul) 7:277-88 Ag '24
Conventional versus naturalistic design. M. L. Yancey. Am Cer Soc J (Bul) 8:321-3 Jl '25
Design in modern industry. C: H: C. Baker. 157p Scribner '22
Essentials of design. C: De Garmo and L. L. Winslow. 255p Macmillan '24
Original design; geometric pattern for beginners. S. J. Cartlidge. 143p Dutton '23
Romance of design and ornament as applied to advertising. R. Highet. il Ptg Art 39: 501-7; 40:25-33, 139-46, 235-41, 353-9, 457-63, 558-65; 41:49-55, 145-51, 242-50, 361-8, 463-8, 573-8; 42:51-7, 137-43, 233-8 Ag '22-N '23

See also Decoration and ornament; Textile design; Textile printing

DESIZING (textiles)
Celanese and cotton mixtures. A. H. Grimshaw. il Textile World 67:579+ Ja 31 '25
Continuous process for destarching textile fabrics; abstract. Soc Dyers & Col J 40:241 Jl '24
Desizing and cleansing fabrics; patent. Chemicals (Dyestuffs sec) 16:201+ Je 22 '25
Desizing of artificial silk fabrics; patent. Color Tr J 16:148 My '25
Novo fermasol a new product for desizing and destarching. J. R. Appleyard. Color Tr J 16:116-18 Ap '25
Use of rapidase. Color Tr J 16:22-3 Ja '25

DESKS
Credit executive's desk. E. L. Boyden. Credit M 26:13+ N '24
Suiting the desk to the job. H. Coonley. il System 45:626 My '24

DESKS, Laboratory
Sectional system of laboratory desks. P. Borgstrom. diag Ind & Eng Chem 16:227 Mr '24

DES MOINES, Iowa

Rapid transit
Eight cents in Des Moines. Elec Ry J 64:566 O 4 '24

Water supply
Beautifying water works properties. C. S. Denman. il (fold pl) Am Water Works Assn J 14:289-94 O '25; Same. il Eng & Contr (W W) 64:338-42 Ag 12 '25
Infiltration galleries at the Des Moines, Iowa, water works. C: B. Burdick. diags map N E Water Works Assn J 38:203-18, pl 1-2 S '24; Same, without tables. Eng & Contr (W W) 62:791-6 O 8 '24; Same cond. Pub Works 55:331-3 N '24

DESTROYERS. See Torpedo boat destroyers

DESYLAMINE
Migration of groups in derivatives of benzoin and desylamine. A. McKenzie and R. Roger. Chem Soc J 125:844-54 Ap '24

DETECTORS, Crystal. See Radio detectors

DETERGENTS. See Cleaning preparations; Soap

DETINNING. See Tin metallurgy

DETONATION in engines. See Automobile engines—Detonation; Gas and oil engines—Fuel

DETONATORS
Detonators for shooting oil wells; past and present. J. Calhoun. il Eng & Min J 120: 732-5 N 7 '25
Development and application of initiating explosives. B. Grotta. il Ind & Eng Chem 17: 134-8 F '25

See also Cordeau-Bickford

Testing
Methods of testing detonators. C. A. Taylor and C. E. Munroe. U S Bur Mines Rep of Invest 2558:1-14 D '23 (typew)

DETONATORS, Electric
Detonators for shooting oil wells; past and present; electric time bomb. J. Calhoun. il Eng & Min J 120:733-5 N 7 '25

DETROIT, Michigan
Detroit, the motor car city. E: N. Vose. il Dun's Int R 43:37-41 Jl '24
Fourth city—second in wealth. P. S. Hanna. il Burroughs Clearing House 9:10-13+ Ap '25

See also Electric plants (central stations—Detroit, Michigan; Motor bus lines—Detroit, Michigan

Bridges
Detroit Belle Isle bridge a reinforced concrete cantilever structure. il diags Concrete 23: 213-16 D '23

Railroads
Grade separation at Detroit, Grand Trunk railway. diags Eng N 93:60-2 Jl 10 '24
Terminal problems of a great industrial center. F. H. Alfred. il Ry R 74:412-15 Mr 8 '24

Rapid transit
Additional railway lines suggested for Detroit. Elec Ry J 65:117 Ja 17 '25
Application of business principles responsible for Detroit success. G. C. Ellis. Elec Ry J 63:827 My 24 '24
Arbitrators specify Detroit payments to secure the entrance of interurban cars into the city. Elec Ry J 63:67-9 Ja 12 '24
Bus plans of Detroit United railway progressing. il Bus Transportation 3:585-6 D '24
Bus system expands in Detroit. map Bus Transportation 3:143 Mr '24
Buses for Detroit. Elec Ry J 64:931 N 29 '24
Conditions no better in Detroit than before the city took over the lines. il Aera 12:1508-10 Ap '24
Construction of underground lines downtown regarded as imperative. W: B. Mayo. Elec Ry J 62:1023 D 15 '23
Court will decide whether Detroit must arbitrate wages. Elec Ry J 63:787-8 My 17 '24
D.U.R. to operate co-ordinated rail-bus system. Elec Ry J 64:879-80 N 22 '24
Decision of court in suit seeking to compel city to deal with union; city must arbitrate. Elec Ry J 63:944, 995 Je 14-21 '24

DETROIT, Michigan—Rapid transit—*Continued*
Details of Detroit trackless trolley plan. Elec Ry J 63:669 Ap 26 '24
Detroit answers motorbus proposal. Elec Ry J 63:501-2 Mr 29 '24
Detroit coach riders subsidize operation by the city. G: D. Wilcox and F. Peppler. il map Aera 13:1522-32 Ap '25
Detroit company maintains earning ability during expansion. Bus Transportation 3: 195 Ap '24
Detroit dismissals reviewed. Elec Ry J 65: 945-6 Je 13 '25
Detroit rapid transit plan advanced. Elec Ry J 66:254 Ag 15 '25
Elaborate Detroit United program. Elec Ry J 64:363 S 6 '24
Energy consumption of interurban cars. Elec Ry J 63:171-3 F 2 '24
Experiments with four-track bus and car service in Detroit. il Elec Ry J 65:855 My 30 '25
Hauling workers at Ford headquarters. plan Bus Transportation 2:561-3 D '23
International local in Detroit seeks union recognition through court action. Elec Ry J 63:854-5 My 31 '24
Jitney ordinance in Detroit unconstitutional. Elec Ry J 63:48 Ja 5 '24
Keeping pace with the demand for buses in the motor city. il map Bus Transportation 4:557-8 N '25
Making the land owner pay. Aera 12:994-7 Ja '24
New franchise terms to Detroit United railways. Elec Ry J 64:566-7 O 4 '24
Pouf! goes Detroit's million dollar profit. J: W. Colton. Aera 12:1113-22 F '24
Proposed plan for financing Detroit rapid transit lines. Elec Ry J 62:963-6 D 8 '23; Same cond. Eng & Contr (Ry) 61:131-4 Ja 16 '24
Proposed Windsor-Detroit traffic tunnel. diags plan Can Eng 48:559-60 Je 9 '25
Report on rapid-transit lines for Detroit. Eng N 91:994 D 13 '23
Smaller balance in Detroit. Elec Ry J 66:378 S 5 '25
Speeding up service through downtown Detroit. il Bus Transportation 4:215-16 My '25
Speeding up traffic in Detroit. il map Elec Ry J 63:927-30 Je 14 '24
Street railways, Detroit. Monthly Labor R 17:1123-8 N '23
Subway amendment carries. Elec Ry J 62:872 N '23
Surveying suburban traffic wants. diags map Elec Ry J 65:129-32 Ja 24 '25
$3,185,227 deficit in municipal funds. Elec Ry J 66:27 Jl 4 '25
Transportation waste in Detroit. R. Schram. Aera 13:1879-81 Je '25; Abstract. Elec Ry J 65:825-6 My 23 '25
Underground lines suggested for use downtown with super-highway system of suburban feeders. Elec Ry J 63:631 Ap 19 '24

See also Detroit United railway company

Recreation department

City where life is worth living. C. E. Brewer. il Nation's Health 7:313-15 My '25

Streets

Changing the horse-and-buggy road to fit the automobile. S. D. Waldon. il charts diags maps plans Soc Auto Eng J 15:521-31 D '24
City of Detroit builds heavy traffic pavements. diag Eng N 93:987-8 D 18 '24
Detroit council given plan for super-highways. Eng N 94:332 F 19 '25
Fitting old roads to new traffic. E: N. Hines. Eng N 94:114 Ja 15 '25
Super-highway plan for Detroit suburbs. il Elec Ry J 64:52 Jl 12 '24
Super-highway plan for greater Detroit. il Eng & Contr (R & S) 62:283-7 Ag 6 '24
Super-highway system proposed for Detroit. il diag map Eng N 92:1054-5 Je 19 '24
System of 204-ft. super-highways contemplated in Detroit plan. S. D. Waldon. il Soc Auto Eng J 15:370-1 N '24
Traffic congestion studies in Detroit. H. M. Gould. Elec Ry J 65:811-12 My 23 '25
Traffic plan suggested. Elec Ry J 64:781 N 1 '24
Traffic problems in Detroit and how they are met. T. G. Phillips. Ann Am Acad 116:241-3 N '24
Wayne county's highway plans; abstracts. E: N. Hines. Pub Works 55:392 D '24; Eng N 94:116-17 Ja 15 '25

Water supply

Board reports on Detroit's water supply needs. Eng N 92:466 Mr 13 '24

DETROIT aero metals company. See Williams, Glen Lenardo

DETROIT Edison company
Convertible 7s, 1928, 1929 and 1930; convertible 6s, 1932. Moody's Inv Serv 17:316 S 24 '25

DETROIT institute of technology
Detroit institute of technology. il Chem Age 32:345-6 Ag '24

DETROIT river
Blasting out the channel through the Detroit river. F. J. Byrne. il Munic & Co Eng 69: 23-4 Jl '25

DETROIT stock exchange
Detroit stock exchange adopts new commission rates. Comm & Fin Chr 120:1548 Mr 28 '25
Record of prices on Detroit stock exchange, 1923 and 1924. Comm & Fin Chr 120:754-5 F 14 '25

DETROIT, Toledo & Ironton railroad
Analysis of operation. Eng & Contr (Ry) 62: 860-2 O 15 '24
Detroit & Ironton locomotives to use M.-G. control. F. Allison, H. L. Maher and L. J. Hibbard. Elec Ry J 64:707-8 O 18 '24; Same. Ry Age 77:685-6 O 18 '24; Same. Ry R 75: 578-80 O 18 '24; Same. Aera 13:678-82 N '24
Ford railroad has unique operating practices. il Ry Age 78:501-6 F 28 '25; Discussion. B. Snell. 78:779-80 Mr 21 '25
Plant facility—marked for success. Ry Age 76: 823-4 Mr 29 '24
Why Henry Ford's railroad has grown profitable. Ry Age 76:845-6 Mr 29 '24

DETROIT United railway company
Annual report, 1923. Comm & Fin Chr 118: 2039-40 Ap 26 '24
Comment on D.U.R. report. Elec Ry J 65: 524-5 Mr 28 '25
Detroit receivership a friendly action. Bus Transportation 4:207 Ap '25
Detroit United affairs being discussed. Elec Ry J 65:713-14 My 2 '25
$863,646 net for Detroit United. Elec Ry J 63: 910 Je 7 '24
Financial reorganization plan. Comm & Fin Chr 120:3180, 3186 Je 20 '25; Elec Ry J 65: 996-7 Je 20 '25
Interurban passengers transfer to buses at outlying terminals in Detroit. il plans Elec Ry J 65:685-8 My 2 '25
Receivers for Detroit United. Elec Ry J 65: 431 Mr 14 '25

DEUTSCHE museum von meisterwerken der naturwissenschaft und technik. See Munich. Deutsche museum von meisterwerken der naturwissenschaft und technik

DE VAINS process. See Paper making—De Vains process

DE VINNE, Theodore L.
DeVinne as I knew him. C: H. Cochrane. Inland Ptr 73:560 Jl '24

DEVITRIFICATION
Elimination of surface devitrification on laboratory quartzware. F. C. Vilbrandt. il Ind & Eng Chem 17:835-7 Ag '25

DEVOE and Raynolds company, inc.
Attractive stock investments. Moody's Inv Serv 17:47 F 5 '25
Devoe & Raynolds business taken over by young salesmen. Sales Management 7:1347-8 Ag '24
Putting new life into an old business. J: A. Murphy. Ptr Ink 131:3-4+ Je 18 '25

DEVULCANIZING process. See Rubber waste

DEW points
Dewpoint temperature of gases from combustion. J. N. Waite. Elec R (Lond) 94:954-6, 994-6 Je 13-20 '24
Dew points of gasoline-air mixtures. D. P. Barnard and R. E. Wilson. Ind & Eng Chem 17:428-9 Ap '25
Method of determining the dew points of fuel-air mixtures. R. J. Kennedy. diags U S Bur Stand Sci Pa 500:47-63 '25; Abstract. Mech Eng 47:850 O '25
New method of determining the dew point; abstract. M. Holtzmann. J Fr Inst 199:136 Ja '25

DEWAR, Sir James
Work of Sir James Dewar; abstracts. H. E. Armstrong. Chem Age (Lond) 10:95 Ja 26 '24; Soc Chem Ind J (Chem & Ind) 43:85-6 Ja 25 '24

DEXTRIN
Developments in dextrine manufacture. W. A. Darrah. Chem & Met Eng 30:825-8 My 26 '24
Sizing with dextrine soap. Am Dyestuff Rep 14:108-11 F 23 '25
Studies on starch; the nature and the genesis of the stable dextrin and of the maltodextrins. A. R. Ling and D. R. Nanji. Chem Soc J 127:636-51 Mr '25

DEXTROSE
Hydrogen and oxygen electrode titrations of some dibasic acids and of dextrose. H. T. S. Britton. Chem Soc J 127:1896-1917 Ag '25
Manufacture and uses of refined dextrose. W. B. Newkirk. diags Ind & Eng Chem 16:1173-5 N '24
Manufacture of anhydrous crystalline dextrose. diag Chem Age 31:489-91 N '23
See also Glucose

DIABASE
Copper ores and diabases of Transylvania. S. Szentpétery. Econ Geol 19:392-7 Je '24
Sulphide diabase from Cook county, Minnesota. G. M. Schwartz. Econ Geol 20: 261-5, pl 1 My '25

DIABETES
Control of disease by diet. O. H. Petty and W. H. Stoner. il Nation's Health 7:449-52+ Jl '25
Diabetes death rates among industrial populations of American states and Canadian provinces. Econ W n s 27:851-2 Je 14 '24
Diabetes mortality, 1912-1924. F: L. Hoffman. Spectator 115:36+ N 12 '25
Induced reactions and diabetes from the viewpoint of induced oxidation. N. N. Mittra and N. R. Dhar. J Phys Chem 29:376-94 Ap '25
Mortality from diabetes. F: L. Hoffman. Spectator 113:16+ Jl 10 '24
See also Insulin

DIACETONAMINE
Preparation of diacetonamine. P. R. Haeseler. Am Chem Soc J 47:1195-6 Ap '25

DIACETONE alcohol
Electro reduction of diacetone alcohol. R. R. Read and F. A. Fletcher. Am Electrochem Soc Trans v 47 (preprint 10):127-31 Ap '25

DIACETYLTARTARIC anhydride
Action of diacetyltartaric anhydride and chlorofumaryl chloride upon aromatic amines and hydrazines. F: D. Chattaway and G: D: Parkes. Chem Soc J 125:464-70 Mr '24
Rotatory dispersion of derivatives of tartaric acid; acetyl derivatives. P. C. Austin and J. R. Park. Chem Soc J 127:1926-34 S '25

DIAGNOSIS
See also Abrams electronic reactions

DIALDEHYDOPROPANE-dicarboxylic acid
αγ-dialdehydopropane-ββ-dicarboxylic acid and αγ-dialdehydopropane-β-carboxylic acid. W: H: Perkin, jr. and H. S. Pink. Chem Soc J 127:191-4 Ja '25

DIAMAGNETISM
Magnetic susceptibility of helium, neon, argon, and nitrogen. L. G. Hector. diag Phys R 24:418-25 O '24
New phenomenon in the diamagnetism of gases. A. Glaser. J Fr Inst 199:261-2 F '25
Theory of diamagnetism. S. J. Barnett. Phys R 25:835-40 Je '25

DIAMINES
Nitration of stereoisomeric aromatic diamines. G. T. Morgan and W. J: Hickinbottom. Soc Chem Ind J 43:307-10 O 17 '24

DIAMINO-arsenobenzene
Synthesis of N,N′-dimethylenesulfonates of ortho-, meta- and para-diamino-arsenobenzene. K. Kashima. Am Chem Soc J 47:2207-11 Ag '25

DIAMOND drilling. See Drilling and boring (earth and rocks)

DIAMOND mines and mining
L'exploitation des terrains diamantifères. diag Génie Civil 86:68-9 Ja 17 '25

Arkansas
Discovery of diamonds in Arkansas. T. Shiras. il Manuf Rec 85:73-5 Je 19 '24

Brazil
Drill diamonds, carbons or carbonados; their occurrence in Brazil. F. L. Garrison. il map Eng & Min J 118:491-5 S 27 '24

British Guiana
British Guiana diamond mining flourishes. Eng & Min J 117:318 F 23 '24
Diamond and bauxite mining active in British Guiana; gold production decreasing. L. T. Emory. il map Eng & Min J 120:524-8 O 3 '25
Jungle traders along fading frontiers. W: LaVarre. il Ptr Ink M 8:21-2+ Mr '24

Colorado
Great diamond hoax; how a Colorado desert was salted with gems in 1872. T. A. Rickard. Eng & Min J 119:884-8 My 30 '25

Kongo, Belgian
How diamonds were discovered in the Belgian Congo. Eng & Min J 119:43 Ja 10 '25

South Africa
Diamantengewinnung. H. Harbottle. il diags Zeit Ver Deutsch Ing 68:827-9 Ag 9 '24
Journey to South Africa. T. A. Rickard. il Eng & Min J 119:916-18; 120:57-9 Je 6, Jl 11 '25
South African diamond production in 1924. Eng & Min J 119:970 Je 13 '25
Union of South Africa; alluvial diamonds and mined diamonds, old mines and lease areas, relations of union and provincial governments. Economist 98:835 Ap 19 '24

DIAMONDS
Antwerp's diamond industry. W: Van Ryswyck. Dun's Int R 44:69-70+ Ja '25
Marketing of precious stones. G: F. Kunz. il Eng & Min J 119:364-6 F 28 '25
Origin of diamonds. S. H. Ball. Eng & Min J 119:371-2 F 28 '25
Study of crystal structure and its applications. W. P. Davey. Gen Elec R 28:343-6 My '25
Taking advantage of a competitive discovery; the Eduard Van Dam diamond company. R. Crothers. Ptr Ink 130:113-14 Ja 22 '25

DIAMONDS, Industrial
Diamonds for truing abrasive wheels. E. F. Creager. Am Mach 62:394 Mr 5 '25
Dykon gage devised for protecting diamonds from abuse. diags Iron Age 114:16 Jl 3 '24; Ry Mech Eng 98:568 S '24
Industrial uses of diamonds. S. H. Ball. il Eng & Min J 119:847-50 My 23 '25
Mounting of diamonds by the casting method. H. Miller. il Gen Elec R 26:827-9 D '23; Same. Metal Ind 22:311-12 Ag '24; Same cond. Iron Tr R 74:286-7 Ja 24 '24

DIAMONDS, Industrial—*Continued*
Some notes on the use of a diamond pyramid for hardness testing. R. L. Smith and G. E. Sandland. Iron & Steel Inst J 111:285-94 no 1 '25; Discussion. 111:295-304 no 1 '25; Engineering 119:633-4 My 22 '25; Engineer 139:566-7 My 22 '25
Truing grinding wheels with diamonds. A. Mumper. diags plans Mach 31:473-4 F '25

DIANA (St Gaudens statue)
Diana of Madison Square garden. il Am Arch 127:495 Je 3 '25

DIANTHRACENE
Studies in chemical reactivity; the anthracene—dianthracene reactions, photochemical and thermal. H. A. Taylor and W. C. M. Lewis. Am Chem Soc J 46:1606-14 Jl '24

DIAPHRAGMS
Diaphragms for aeronautic instruments. M. D. Hersey. il diags U S Nat Advisory Com for Aeronautics 1923:157-86 '24

DIARSONO-DIPHENYL
Diarsono-diphenyl and derivatives. W. W. Bauer and R. Adams. Am Chem Soc J 46: 1925-31 Ag '24

DIARYLDICHLOROSILICANES
Organic derivatives of silicon; action of mercuric oxide on diaryldichlorosilicanes. L. R. Vyle and F: S. Kipping. Chem Soc J 125: 2616-22 D '24

DIASPORE
Method for analyzing diaspore clay. M. H. Thornberry. Am Cer Soc J 6:1261-2 D '23

DIASTASE
Effect of hydrogen-ion concentration on the estimation of diastatic power by the polarimetric method. H. C. Gore. Am Chem Soc J 47:281-3 Ja '25

See also Enzymes

DIASTROPHISM
Some fundamental problems of diastrophism and their geological corollaries with special reference to polar wanderings. L. A. Cotton. Am J Sci 5th ser 6:453-97; Bibliography. 497-503 D '23

DIATOMACEOUS earth
Effect of heat on the strength of calcined kieselguhr-Portland cement mixtures. S. J. McDowell and H. M. Kraner. Am Cer Soc J 8:784-8 N '25
Heat-insulating efficiencies of some diatomaceous earth products and slag wool. A. T. Green and H. Edwards. bibliog Gas J (Lond) 171:sup23-7 Jl 22 '25
Kieselguhr filter-aid; patent. Chem & Met Eng 31:355 S 1 '24
Manufacture of an insulating brick from diatomaceous earth. C. A. Smith. Am Cer Soc J 7:52-60 Ja '24
Mining and milling diatomaceous earth in California. Eng & Min J 119:970 Je 13 '25
Le moler et ses applications. P. Hannover. il diags Chimie & Ind 12:807-15 N '24
Thermal conductivity and some other properties of two commercial, heat-insulating bricks used in kiln construction. A. T. Green. bibliog Gas J (Lond) 167:sup29-31 Jl 9 '24

DIATOMITE
California company finds a source of petroleum in oil-impregnated diatomite. il Chem & Met Eng 32:324 F 23 '25

DIAZO compounds
Action of diazo-salts on methanesulphonamide. P. K. Dutt. Chem Soc J 125:1463-5 Jl '24
Diazo derivatives of aminoazo compounds. K. Heusner and M. Simon. Chemicals (Dyestuffs sec) 17:120 N 9 '25
Diazo-transformations of aminocoumarins and aminonaphthapyrones. B. B. Dey and H. Dalal. Chem Soc J 123:3384-92 D '23
Rate of diazotization of various amines. M. L. Willard. Textile Col 46:22-3, 164-5 Ja, Mr '24

DIAZOMETHANE
Action of diazomethane on some aromatic acyl chlorides; synthesis of fisetol. M. Nierenstein, D. G. Wang and J. C. Warr. Am Chem Soc J 46:2551-5 N '24
Action of diazomethane on some aromatic acyl chlorides; the mechanism of the reaction. H. H. Lewis, M. Nierenstein and E. M. Rich. Am Chem Soc J 47:1728-32 Je '25

DIAZONIUM compounds
Condensation of aryldiazonium salts and of alkyl nitrites with certain derivatives of cyanoacetic acid. T: K. Walker. Chem Soc J 125:1622-5 Ag '24
Condensation of aryldiazonium salts with monoalkylated malonic acids. T: K. Walker. Chem Soc J 123:2775-9 N '23
Deaminization; evidence of the existence of aliphatic diazonium salts from the formation of chloro-oximino compounds. G. S. Skinner. diag Am Chem Soc J 46:731-41 Mr '24
Influence of nitric acid on the stability of diazonium and nitroso compounds. E. Knecht and J. H. Platt. Soc Dyers & Col J 41:275-8 Ag '25
Synthesis of biaryl compounds by means of the diazo reaction. M. Gomberg and W. E. Bachmann. Am Chem Soc J 46:2339-43 O '24

DIAZONIUM tetrachloroiodides
Diazonium tetrachloroiodides and plumbichlorides. F: D. Chattaway, F. L. Garton and G: D: Parkes. Chem Soc J 125:1980-91 O '24

DIAZO-sulfonates
New reaction with certain diazo-sulphonates derived from β-naphthol-1-sulphonic acid. F. M. Rowe and others. Chem Age (Lond) 12:308 Mr 28 '25

DIBENZANTHRONE
Green vat dyestuffs from dibenzanthrone. Color Tr J 16:40 F '25
New green vat dye from dibenzanthrone. Chemicals (Dyestuffs sec) 16:158-9 My 25 '25

DIBENZOYL-ETHYLENE
Unsaturated 1,4-diketones; halogen derivatives of dibenzoyl-ethylene and related substances. J. B. Conant and R. E. Lutz. Am Chem Soc J 47:881-92 Mr '25

DIBENZYLDIXANTHYL
Dissociation into free radicals of substituted dixanthyls; dibenzyl- and dibutyldixanthyl. J. B. Conant and A. W. Sloan. Am Chem Soc J 47:572-80 F '25

DIBROMOADIPIC acids
Studies in the configuration of αά-dibromodibasic acids; derivatives of adipic acid. A. W. Bernton, H. R. Ing and W: H: Perkin, jr. diag Chem Soc J 125:1492-1502 Jl '24

DIBROMOBENZENE
Reaction between *p*-dibromobenzene and magnesium. H. S. Pink. Chem Soc J 123: 3418-20 D '23

DIBROMOETHANE
Decomposition of ethylene bromide by potassium iodide and sodium iodide solutions. T. S. Patterson and J: Robertson. Chem Soc J 125:1526-7 Jl '24

DIBROMO-SALICYLALDEHYDE
Schiff's bases from 3,5-dibromo-salicylaldehyde. C. M. Brewster. Am Chem Soc J 46: 2463-8 N '24

DIBROMOSUCCINIC acids
Studies in the configuration of αα'-dibromodibasic acids; the αα'-dibromosuccinic acids. H. R. Ing and W: H: Perkin, jr. Chem Soc J 125:1814-30 S '24

DIBUTYLDIXANTHYL
Dissociation into free radicals of substituted dixanthyls; dibenzyl- and dibutyldixanthyl. J. B. Conant and A. W. Sloan. Am Chem Soc J 47:572-80 F '25

DICENTRINE
Synthesis of *dl*-dicentrine. R. D. Haworth, W: H: Perkin, jr. and J: Rankin. Chem Soc J 127:2018-23 S '25

DICHLOROACETIC acid
Preparation and properties of dichloro-acetic acid. H. W. Doughty and A. P. Black. Am Chem Soc J 47:1091-4 Ap '25
Reaction of dichloro-acetic acid with aromatic amines. H. W. Doughty. Am Chem Soc J 47:1095-8 Ap '25

DICHLOROBENZENE
Freezing-point of para dichlor benzol. Chem Rec Age 23:7 My 11 '25
Nitration of *p*-dichlorobenzene. H. J. Page and B: R: Heasman. Chem Soc J 123:3247-55 D '23

DICHLORODIETHYL ether
Further synthesis with β,β′-dichloro-diethyl ether. L. H. Cretcher, J. A. Koch and W. H. Pittenger. Am Chem Soc J 47:1173-7 Ap '25
Syntheses with β,β′-dichloro-diethyl ether. L. H. Cretcher and W. H. Pittenger. Am Chem Soc J 47:163-6 Ja '25

DICHLORODIETHYL sulfide. See Mustard gas

DICHLORODIMETHYL ether
Condensation of phenylethylamine with *s*-dichlorodimethyl ether. W. F. Short. Chem Soc J 127:269-71 Ja '25

DICHLOROETHANE
Ethylene dichloride promises value as anesthetic. Chem & Met Eng 29:984 N 26 '23

DICHLOROETHYLENE
Spontaneous combustion when working with dichlor- and trichlorethylene. Chem Age 32: 264 Je '24

DICTIONARIES
See subdivision Dictionaries and Terminology under various subjects, e.g. Aeronautics—Terminology; Electricity—Dictionaries; Paper—Dictionaries; Printing—Dictionaries; Radio communication—Terminology

DICTOGRAPH
Dictating in the year 1925. I. Deutsch. Credit M 27:14 Ap '25
Electro-magnetic sound recording machines. H. Bishop. il Elec R (Lond) 97:45-7 Jl 10 '25
Vox electro-magnetic recorder. Electrician 94:625 My 29 '25

DICYANINES
Cyanine dyes; synthesis of a 2:4′-carbocyanine —constitution of the dicyanines. W: H. Mills and R. C. Odams. Chem Soc J 125: 1913-21 S '24

DICYANODIAMIDE
Some ammono-carbonic acids and their reactions in liquid ammonia. W: L. Burdick. Am Chem Soc J 47:1485-90 Je '25

Analysis
Determination of dicyanodiamide. C. D. Garby. Ind & Eng Chem 17:266-8 Mr '25

DICYCLOHEXYL hydrazine
Symmetrical dicyclohexyl hydrazine and related compounds. H. H. Harkins and H. L. Lochte. Am Chem Soc J 46:450-5 F '24

DIE casting
Die-cast axle bearings used successfully. W. L. Briar. il plan Elec Ry J 66:229-31 Ag 15 '25
Die casting. N. C. Barnard. il diags Mech Eng 46:661-9 N '24; Same. Brass W 21:3-7, 45-50 Ja-F '25; Same cond. Engineering 119: 28-30, 54-6 Ja 2-9 '25; Discussion. W. M. Peirce. Mech Eng 47:141 F '25
Die-casting as a production asset. Soc Auto Eng J 16:397-8 Ap '25
Die-casting lead- and tin-base alloys. il Mach 31:879-82 Jl '25
Die casting with gas. H. Behrman. il Gas Age 55:75-6 Ja 17 '25
Equipment and methods in die-casting. D. L. Colwell. il diags Iron Age 115:1052-4, 1123+ Ap 9-16 '25
Fundamentals of die casting. S. A. Hellings. il diag Iron Tr R 76:1070-2 Ap 23 '25
Growth in zinc base die castings. W. G. Johnson. Metal Ind 23:322-3, 362-3 Ag-S '25
Making die castings of nonferrous metals. M. Stern. il diags Foundry 53:393-6+ My 15 '25; Same. Iron Tr R 76:1512-15 Je 4 '25; Same. Soc Auto Eng J 17:254-9 S '25; Excerpt. Mach 31:810 Je '25; Discussion. Soc Auto Eng J 17:259-62 S '25
Nickel plating die castings. B. E. Miller and R. L. Shepard. Metal Ind 23:69 F '25
Principles of die casting. H. C. Skinner. il diag Am Mach 62:413-15, 453-5, 487-90, 527-8, 577-9 Mr 12-Ap 9 '25
Some foundry problems; general difficulties in casting metals and alloys as met in British practice. A. H. Mundey. Metal Ind 22:107 Mr '24

DIE casting machines
Casting small parts by machine. il Sci Am 130:253 Ap '24
Die casting. N. C. Barnard. il diags Mech Eng 46:661-9 N '24; Same. Brass W 21:3-7, 45-50 Ja-F '25; Same cond. Engineering 119: 28-30, 54-6 Ja 2-9 '25
Die-casting lead- and tin-base alloys. il Mach 31:879-82 Jl '25
Dollin die casting machine. il Am Mach 59: 675 N 1 '23; Iron Age 112:1119 O 25 '23; Brass W 19:365-6 N '23; Automotive Ind 49:1215 D 13 '23
Dollin die casting machine. E. B. Kreutzberg. il Foundry 51:1000-1 D 15 '23
Hand-operated die-casting machine. J. J. Linton. il Mach 31:114 O '24
Principles of die casting. H. C. Skinner. il diag Am Mach 62:413-15 Mr 12 '25

DIELECTRIC constants
Adsorption forces and their electrical nature. B. Iliin. Philos Mag 6th ser 48:193-200 Jl '24
Application of oscillating valve circuits to the precise measurement of certain physical quantities; determination of the dielectric constant of air and its variation with pressure. J. E. P. Wagstaff. diags Philos Mag 6th ser 47:73-6 Ja '24
Determination of the dielectric constants of five gases by a high frequency method. E. C. Fritts. il diags Phys R 23:345-56 Mr '24
Dielectric constant of germanium tetrachloride. M. E. Lear. J Phys Chem 28:889-90 Ag '24
Dielectric constant of liquid phosgene. H. Schlundt and A. F. O. Germann. J Phys Chem 29:353-5 Mr '25
Dielectric constants of conductors. R. Fuerth. J Fr Inst 199:551-2 Ap '25
Dielectric constants of ethane, ethylene, acetylene and butylene, and the symmetry of unsaturated bonds. C: P. Smyth and C: T. Zahn. Am Chem Soc J 47:2501-6 O '25
Dielectric constants of organic liquids at the boiling point. F. V. Grimm and W. A. Patrick. diag Am Chem Soc J 45:2794-2802 D '23
Dielectric constants of some liquids, and their variation with temperature. G. E. Bell and F. Y. Poynton. diags Philos Mag 6th ser 49:1065-72 My '25
Electric moment of gaseous molecules of halogen hydrides. C. T. Zahn. diags Phys R 24: 400-17 O '24
Electrometer method for measuring dielectric constants of liquids. A. P. Carman. diags Phys R 24:396-9 O '24
Inter-ionic attraction theory of ionized solutes; the influence of variation of dielectric constant on the limiting law for small concentrations. P. Debye and L. Pauling. Am Chem Soc J 47:2129-34 Ag '25
Measurement of the dielectric constants of liquids. H. Harris. diags Chem Soc J 127: 1049-69 My '25
Method of measuring the dielectric constants of liquids. L. A. Sayce and H: V. A. Briscoe. diags Chem Soc J 127:315-22 F '25

DIELECTRIC losses
Dielectric absorption in fibrous insulating materials; use of lag meter. R. E. Marbury and E. R. Le Ghait. il diags Elec J 22:526-34, 605-10 N-D '25
Dielectric losses at radio frequencies in liquid dielectrics. A. B. Bryan. diags Phys R 22: 399-404 O '23

DIELECTRIC losses—*Continued*
Dielectric losses in cables. R. W. Atkinson. Elec W 85:1265 Je 13 '25
Dielectric losses in cables. F. A. Brownell. Elec W 86:218-20 Ag 1 '25
Dielectric power loss and power factor of the charging current in insulating materials. Am Soc T M Pro 24 pt 1:651-8 '24
Dielektrische verluste von kabeltränkmassen. H. W. Birnbaum. Elektrotech Zeit 45: 229-32 Mr 20 '24
Dielektrische verlustmessungen an einem verlegten hochspannungskabel. E. Bormann and J. Seiler. diags Elektrotech Zeit 46:114-15 Ja 22 '25
Effect of moisture and temperature on the power factor of transformer oil. J. E. Shrader. diags J Fr Inst 199:513-38 Ap '25
Gaseous ionization in built-up insulation. J. B. Whitehead. Am Inst E E J 43:19-25 Ja '24; Discussion. 43:1165-8 D '24
High-tension bridge for measurement of dielectric losses in cables. R. W. Atkinson. diags Elec J 22:58-66 F '25
High-voltage cables. E. A. Beavis. diag Elec R (Lond) 97:443-6 S 18 '25
New method and means for measuring dielectric absorption; the dielectric lag meter. R. E. Marbury. bibliog il diag Am Inst E E J 44:718-23 Jl '25; Discussion. 44:1146-50 O '25
150 000-volt cable tests. A. M. Taylor. Electrician 94:653+ Je 5 '25; Discussion. 94: 650-1, 685 Je 5-12 '25
Review of literature on the dielectric losses and the cause of breakdowns of solid dielectrics. M. Z. Demerec. diags Sibley J 38:86-91+; Bibliography. 96 Ap '24
Study of high-tension cable joints; abstract with discussion. E. W. Davis and G. J. Crowdes. Elec W 85:1070-2 My 23 '25

See also Hysteresis

DIELECTRIC separation. See Electrostatic separation of ores

DIELECTRICS
Cable charge and discharge. C: P. Steinmetz. Am Inst E E J 43:525-30 Je '24
Dielectric anomalies in Rochelle salt crystals. J. Valasek. Phys R 24:560-8 N '24
Dielectric properties of fibrous insulation as affected by repeated voltage application. F. M. Clark. Am Inst E E J 44:3-10 Ja '25; Discussion. 44:628-38 Je '25
Dielectric properties of water for continuous waves. G. C. Southworth. diags Phys R 23:631-40 My '24
Dielectric strength of high-pressure transformer and switch oils. H. D. Jukes. Elec R (Lond) 95:845-7 D 5 '24; Discussion. 96: 289-90, 571-2 F 20, Ap 10 '25
Dielectric strength of insulation. V. M. Montsinger. Elec W 84:723-7 O 4 '24
Dielectric-strength-thickness relation in fibrous insulation. F. M. Clark and V. M. Montsinger. Gen Elec R 28:286-90 My '25
Dielectrics and electrons. F. Fernie. diag Electrician 94:384-5 Ap 24 '25
Das dielektrikum im lichte der neuen atomvorstellung. G: Jacoby. diags Elektrotech Zeit 45:977-81 S 11 '24
Halogenated hydrocarbons as dielectrics; effect on flash and fire point of transformer oils. H. C. P. Weber and R. H. Wynne. Am Electrochem Soc Trans v 46 (preprint 13): 189-95 O '24
High-voltage dielectric characteristics of gaseous insulators. F. M. Clark. il Gen Elec R 28:158-70 Mr '25
Non-metallic elements; connexions between their dielectric and other physical properties. G. L. Addenbrooke. Philos Mag 6th ser 47:945-65 My '24
Permanent electret. M. Eguchi. diags Philos Mag 6th ser 49:178-92 Ja '25
Poynting-flux in a gradually varying dielectric. J. A. Wilcken. Philos Mag 6th ser 49: 140-3 Ja '25
Study of liquid dielectrics. W. P. Davey and T: A. Wilson. il diags Gen Elec R 28:770-81 N '25 (to be cont)
Super-tension cable dielectrics. A. I. Tracey. Engineer 139:580-1 My 22 '25
Über die elektrische festigkeit einiger flüssiger dielektrika. Elektrotech Zeit 45:503 My 15 '24
Die vorgänge im kabeldielektrikum. Elektrotech Zeit 45:1448-9 D 25 '24

See also Insulation (electric); Mica

DIES
Adjustable notching die. S. Server. diags Mach 31:983-4 Ag '25
Adjustable trimming die for typewriter keybars. W: Denton. il Am Mach 62:703 Ap 30 '25
Babbitt dies for forming percolator spouts. R. Morris. diags Mach 31:432 F '25
Bending steel structural members. C. C. Hermann. il diags Mach 31:883-5 Jl '25
Blanking and forming die. F. Server. diags Mach 31:222-3 N '24
Blanking tools for pressed steel. W. E. Irish. diag Mach 31:451-3 F '25
British wire-drawing and wire-working machinery. il diags Engineer 138:130-1 Ag 1 '24
Combination die for can top. S. A. McDonald. Mach 30:887 Jl '24
Commercial standardization of punch and die sets. S. Diamant. Iron Age 113:1218 Ap 24 '24
Comparative methods of tool design. D. H. Chason. il diags Mech Eng 46:531-4+ S '24
Compound die with interchangeable sections. J. Williams. il Am Mach 62:933-4 Je 11 '25
Cut and draw die for gasket ring. F. Martindell. diag Mach 31:529 Mr '25
Cutting diemaking costs. T. A. Schaad. diags Mach 30:378 Ja '24
Design and construction of can dies. A. Mumper. diags Mach 30:200-1 N '23; Discussion. E: J. Rantsch. 30:535-6 Mr '24
Designing drawing dies. E: Heller. il diags Mach 30:579-82, 687-91 Ap-My '24
Designing forging machine dies. A. C. Roepke. diags Am Mach 63:587-92 O 8 '25
Development and manufacture of the self-opening die. il Am Mach 61:563-6, 621-4 O 9-16 '24
Die for blanking fiber. C: Kugler. Mach 31: 472 F '25
Die for making journal box cover springs. il Elec Ry J 64:734 O 25 '24
Die for piercing shells. S. C. Hills. diags Mach 30:968-9 Ag '24
Die for producing metal reinforcing clips. R. H. Kasper. diags Mach 30:468 F '24
Die for punching a circular slot in tubing. F: W. Beckert. il diag Mach 31:644 Ap '25
Dies and fixtures for display hooks. D. A. Baker. diags Mach 31:645-6 Ap '25
Dies designed to reduce operations. P. J. Schneider. diags Mach 31:524 Mr '25
Dies for blanking and forming handle. S. A. McDonald. diags Mach 30:299-300 D '23
Dies for drawing aluminum shells. G: R. Caster. diags Mach 31:585 Mr '25
Dies for producing a complicated sewing-machine part. C. E. Stevens. diags Mach 30:783-6 Je '24
Dies for producing a universal joint boot. N. T. Thurston. il diags Mach 30:253-6 D '23
Dies for sheet-metal cover. F. H. Mayoh. diags Mach 31:947-8 Ag '25
Drawing double-walled steel shells. R. B. Hickey. diags Mach 30:592-4 Ap '24
Follow-die for small clips. E: Heller. diags Mach 30:864-6 Jl '24
Forming dies for rim ends. B. Frantzreb. diags Mach 31:560 Mr '25
Four-slide assembing die. F. Server. diags Mach 30:633-4 Ap '24
From axioms to grinds; grinding the chamfer clearance on chasers of self-opening dieheads. C. W. Bettcher. diags Am Mach 63: 229-31 Ag 6 '25
Hard-faced forging dies. Iron Age 114:310 Ag 7 '24
Hardening a die that is subject to shrinkage. C. Wheeler. diag Mach 31:978 Ag '25
Heat treatment of high speed steel dies. C. B. Swander. Iron Tr R 74:1442 My 29 '24

DIES—*Continued*
Heat treatment of steel dies. C. S. Smith. Iron Age 116:608-10 S 3 '25
Hinged dies for piercing and trimming long shells. F. O. Hickling. diag Am Mach 61:666 O 23 '24
Ingenious die-closing device. A. P. Child. il Am Mach 60:299 F 21 '24
Jack for impressing embossing dies. H. A. Freeman. diag Mach 31:562-3 Mr '25
Jigs and dies to reduce shop costs. C: Gordon. il Elec Ry J 64:1023-7 D 20 '24; Same. Am Mach 62:55-8 Ja 8 '25
Knurling or fluting die. diag Mach 32:53-4 S '25
Laying out blanking dies. F. Waldo. diag Am Mach 62:783 My 14 '25
Machine forging and bending dies. C. C. Hermann. diags Mach 31:719-22 My '25
Machine forging dies. C. C. Hermann. diags Mach 30:674-6, 754-7; 31:34-6, 433-6 My-Je, S '24, F '25
Machining evenly spaced pockets in forming die. D. F. Moriarty. diags Mach 31:467 F '25
Making progress in hardening taps and dies. il Gas Age 52:601-2 N 10 '23
Making roll threader dies. A. L. Greene. il Mach 31:942 Ag '25
Manufacture, heat treatment and average life of die blocks. F. Rose. il Engineer 140:sup 109-10 Jl 31 '25
Marquette pneumatic double-draw die cushions. il Am Mach 60:152 Ja 24 '24
Method of aligning dies. C: Kugler. diags Mach 31:634 Ap '25
Modified type of sub-press die. H. M. Groff. diags Mach 31:425-6 F '25
Piercing, countersinking and blanking dies. C. Stevens. il diags plan Mach 30:629-30 Ap '24
Piercing, forming and cutting-off die. diags Mach 31:305-6 D '24
Plate cam blanking die. H: Simon. diags Mach 31:727-9 My '25
Press die with automatic feed. J: Strama. il diag Am Mach 63:362 Ag 27 '25
Press work in agricultural machinery plants. C. C. Hermann. diags Mach 31:938-40; 32: 120-2, 218-19 Ag, O-N '25
Progressive die for a sheet-metal cup. F. Waldo. diag Am Mach 63:701 O 29 '25
Progressive dies for piercing, bending and blanking. I. B. Black. diags Mach 30:371-2 Ja '24
Punch press dies in the making. il Am Mach 63:465 S 17 '25
Reducing die costs. A. L. Greene. il Management & Adm 9:73 Ja '25
Rules for laying out bending dies; reference-book sheet. Am Mach 63:285 Ag 13 '25
Salvaging header dies affords larger unit production. A. L. Greene. il Iron Tr R 76:941-3 Ap 9 '25
Self-opening die heads for screw machines. il Ry Mech Eng 99:525 Ag '25
Standard punch and die sets. S. Diamant. il Am Mach 61:199-201 Jl 31 '24
Standardized sub-press compound dies. W. E. Irish. il diags Am Mach 63:177-81 Jl 30 '25
Standardizing punch and die parts. E: Heller. diags Am Mach 63:303-7 Ag 20 '25
Sub-press and pillar dies. F. R. Daniels. il diag Mach 30:384 Ja '24
Swelling die for aluminum shells. G: R. Caster. diag Mach 31:535 Mr '25
Test die for finding the shearing strength of metals. H: Simon. diag Am Mach 62: 897 Je 4 '25
Two-purpose dies. F. Server. diag Mach 31: 519 Mr '25
Wire-forming die. A. Halvorsen. diag Mach 31:53 S '24

See also Forging; Punching machinery

Storage

Storehouse system for dies and templates. il diag Ry R 73:703 N 10 '23

DIESEL engines
Baldwin Diesel locomotive with Knudsen engine. diag Mech Eng 47:503 Je '25
Beardmore all-steel quick-running oil engine and its application to a Diesel-electric rail car. il Engineer 140:344-5 O 2 '25
Checking crankshaft alignment. J: W. Cook. diag Power 62:517 O 6 '25
Chinese Diesel-engined power station. il diag Elec R (Lond) 96:752 My 8 '25
Converting a loser into a profit-making plant; replacing an obsolete steam plant with Diesel engines. il plan Power 59:772-5 My 13 '24
Diesel engine. A. Nägel. diags Engineering 118:110-12 Jl 18 '24; Abstracts. Génie Civil 85:318-19 O 11 '24; Mech Eng 46:899 D '24
Diesel engine. G. J. Wells and A. J. Wallis-Tayler. 6th ed. 349p Van Nostrand '24
Diesel engine adapted to trucks and tractors. B. R. Dierfeld. il diags Automotive Ind 53: 730-3 O 29 '25
Diesel-engine air compressors. R. Melrose. diag Power 60:800-1 N 18 '24
Diesel engine and its overall economy. C. B. Jahnke. N E Water Works Assn J 39:105-34 Je '25; Excerpts. Power Pl Eng 29:535-40 My 15 '25; Power 62:162-4 Ag 4 '25; Discussion. N E Water Works Assn J 39:141-4 Je '25
Diesel engine applications increase in America. R. C. Demary. il Power Pl Eng 29:191-2 F 1 '25
Diesel engine constructed without cylinder heads. diag Power Pl Eng 28:508-9 My 1 '24
Diesel engine design. H. F. P. Purday. 2d ed. 348p Van Nostrand '24
Diesel engine development. R. H. Bacon. il Eng N 94:998 Je 11 '25
Diesel engine experience at Ponca City, Okla. J. W. Crow. il Elec W 85:1134-5 My 30 '25
Diesel engine experience in a modern forge plant. J. P. Harbeson, jr. N E Water Works Assn J 39:138-40 Je '25
Diesel engine experience in a pumping plant. L. C. L. Smith. Eng & Contr (W W) 64: 564-5 S 9 '25
Diesel engine experience in a pumping plant. L. C. L. Smith. N E Water Works Assn J 39:135-7 Je '25
Diesel engine for stand-by service. H. L. Conklin. il Power Pl Eng 28:851-2 Ag 15 '24
Diesel engine in medium-powered central stations; abstracts. R. C. Burrus. il Power 60: 54-5 Jl 8 '24; Mech Eng 47:18 Ja '25
Diesel engine in the mining field. F. E. Wormser. il diags Eng & Min J 120:124-34 Jl 25 '25; Discussion. W. D. Abel. 120:379 S 5 '25
Diesel engine operated municipal water works. R. V. Cook. Am Water Works Assn J 14:199-225 S '25; Same cond. Eng & Contr (W W) 63:1061-71 My 13 '25
Diesel engine operating experience. J. A. Boggs. il plan Elec W 84:995-8 N 8 '24
Diesel-engine stand-by plant at Iron River, Michigan. il map Power 60:390-3 S 9 '24
Diesel engine used in new Benz truck. il Automotive Ind 50:574 Mr 6 '24
Diesel engine with precompressor and exhaust turbine. Power 60:694, 854 O 28, N 25 '24
Diesel engines. L. H. Morrison. 598p McGraw-Hill '23
Diesel engines and hydro-electric power stations. A. Buchi. Engineer 140:120-1, 146-8 Jl 31-Ag 7 '25
Diesel engines eliminate losses in Carthage light plant. il Power 60:684-6 O 28 '24
Diesel engines for 200-kw. load for small town. R. W. Callaway. Elec W 83:1008-9 My 17 '24
Diesel engines for water-pumping plants. A. R. McMullin. il Power 58:984-7 D 18 '23
Diesel engines replace steam at Clinton, Okla. il Power Pl Eng 29:1100-1 N 1 '25
Diesel municipal plant shows profits. il Power Pl Eng 29:899-90 S 1 '25
Dieselmaschinen in Amerika. A. Nägel. il diags Zeit Ver Deutsch Ing 69:629-34, 876-81, 955-60, 1083-7, 1109-15, 1165-7 My 9, Je 27, Jl 18, Ag 15-22 '25

DIESEL engines—*Continued*
Dieselmaschinen-tagung gelegentlich der hauptversammlung des Vereines deutscher ingenieure in Hannover 1924. diags Zeit Ver Deutsch Ing 68:1082-4 O 11 '24
Dieselmotor und kraftübertragung für grossöllokomotiven. J. Geiger. il diags Zeit Ver Deutsch Ing 69:642-6 My 9 '25; Abstract (Diesel locomotive design in Germany). Engineer 139:578-9 My 22 '25
Dieselmotoren mit strahlzerstäubung. H. Hintz. il diags Zeit Ver Deutsch Ing 69: 673-8 My 16 '25
Diesels for operation of small utility. G: E. Silver. Elec W 85:507-8 Mr 7 '25; Discussion. C. E. Murphy. 85:877 Ap 25 '25
Early two-stroke Diesel engine. Engineering 119:796-7 Je 26 '25
Economical operation of Diesel engines. C. Mendelsohn. il Elec W 82:970-1 N 10 '23
Efficient oil engine light plant. R. C. Burrus. il diag plan Power 58:1016-20 D 25 '23
Electricity supply in war time; effect of improvements in heavy-oil engines. A. H. Dykes and W. T. Townend. Elec R (Lond) 94:858-60 My 23 '24
Equalizing combustion in Diesel cylinders. R. Melrose. Power 62:490 S 29 '25
Grossdieselmotoren als reserve- und spitzenmaschinen von grosskraftwerken. M. Gercke. diags Elektrotech Zeit 46:880-6 Je 11 '25
Heavy-oil engines; some outstanding questions relating to large engines of the self-ignition type; abstracts. H. R. Sankey. Engineering 119:570-1 My 8 '25; Engineer 139: 508-9 My 8 '25
High-power Diesel engine of Nurnberg. W. Laudahn. il diags Power 59:603-6, 642-4 Ap 15-22 '24
Horizontal compressorless Diesel engine Deutz; abstract. diag Mech Eng 46:45-6 Ja '24
Industrial applications of oil engines. Mech Eng 47:743-5 S '25
Industrial use of the oil engine. L. H. Morrison. Mech Eng 47:255-6; Discussion. 257 Ap '25; Abstract. Power 61:393-4 Mr 10 '25
Irrigation pumping machinery (Gezira scheme), Sudan. R: W. Allen. diags plan Engineering 117:654-6, 685-7 My 16-23 '24; Same cond. Engineer 137:549-50; Discussion. 542 My 16 '24
Is the Diesel engine good equipment? abstracts. R. H. Bacon. il Brick & Clay Rec 66:598-600 Ap 14 '25; Factory 35:294+ Ag '25
Large oil engines, with special reference to the double-acting two-cycle type. C: E: Lucke. Power 60:915-16 D 2 '24
Largest two-stroke-cycle Diesel built in America. il diags Power 59:406-8 Mr 11 '24
Life of a Diesel engine. Power 58:733-5 N 6 '23; Discussion. P. M. Thayer. 58:1037-8 D 25 '23
Modern equipment reduces cost of power; steam equipment of the Abbeville, La., municipal light plant replaced by Diesels. il Power 60:210-11 Ag 5 '24
Most efficient prime mover. A. McMillan. il System 45:240+ F '24
New Nordberg Diesel. il Power 62:345-7 S 1 '25; Eng & Min J 120:474-5 S 19 '25
New single-acting and double-acting Krupp Diesel engines. Mech Eng 47:851 O '25
Next step in the Sulzer thermo-locomotive; application of Diesel engine to railroad work. J. Barraja-Frauenfelder. diags Ry Mech Eng 98:81-5 F '24
Les nouveaux moteurs Diesel à injection mécanique et à chambre de précompression. diags Génie Civil 85:318-19 O 11 '24
La nouvelle centrale électrique à moteurs Diesel de la Concession française de Shanghaï. il diags Génie Civil 85:599-603 D 27 '24
Oil engines in plants requiring steam. L. H. Morrison. il diag (supp) Power 61:613-15 Ap 21 '25
Oil engines in the pumping field. F. Johnstone-Taylor. il diag Power Pl Eng 29:999-1001 O 1 '25
Oil engines practical even if process steam be needed. J. S. Le Clercq. il diag Power 59:322-3 F 26 '24
Operating a Diesel power plant. R. G. Melrose. Power 60:324-5 Ag 26 '24
Operating Diesel engine in combination with a steam plant. J. W. Crow. Power 61:131 Ja 27 '25
Operating experiences and economy of a Diesel engine driven pumping station. W. DeW. Vosbury. diags Am Water Works Assn J 12:381-90 D '24; Same. Eng & Contr (W W) 62:95-100 Jl 9 '24; Discussion. Am Water Works Assn J 12:390-2 D '24
Operation of Diesel engines. P. L. D. Elliott. Can Eng 47:438 O 21 '24
Operation of Diesel engines. R. Hildebrand. diags Power 61:98-9, 174-6, 414-16, 490-1, 571-3, 651-2, 735-6, 831-3, 906-7, 989-90 Ja 20, F 3, Mr 17, 31, Ap 14, 28, My 12, 26, Je 9, 23 '25
Overloading Diesel engines. J. Spugg. diag Power 58:778 N 13 '23
Panama to have largest Diesels. il Eng & Min J 120:751 N 7 '25
Possibilities of Diesel engines for central-station service. E. B. Pollister. il diags Elec W 82:1111-15 D 1 '23
Practical Diesel engineering. L: R. Ford. il diags Marine Eng 29:389-93, 473-6, 543-6, 607-10, 669-73, 741-4; 30:48-51, 110-14, 172-6, 226-30, 287-92, 351-5, 403-12, 466-70, 509-15 Jl '24-S '25
Present-day Diesel engines—application of the two-stroke-cycle principle. A. Nagel. diags Power 59:526-7 Ap 1 '24
Proposed solution of the double-acting Diesel engine problem; abstract. A. M. Proctor. diag Mech Eng 47:668 Ag '25
Recent Diesel-engine developments. P. L. Scott. il diags Soc Auto Eng J 17:339-46; Discussion. 346-9 O '25
Die reduktion der kurbelkröpfung. Seelmann. diags Zeit Ver Deutsch Ing 69:601-3 My 2 '25
Rohöllokomotiven mit kompressorlosem Dieselmotor und flüssigkeitsgetriebe. W. Schumacher. il diags Zeit Ver Deutsch Ing 69: 647-52 My 9 '25
Schnellaufende dieselmotoren für fahrzeuge. W. Riehm. il diags Zeit Ver Deutsch Ing 69:1125-31 Ag 29 '25
Semi-Diesel engines and full Diesel type for water works. J. B. Trenchard. Am Water Works Assn J 13:299-305 Mr '25
Small Diesel plant in New Mexico. M. Michel. Elec W 85:307 F 7 '25
3600 B.H.P. Diesel engine for Shanghai. il Engineer 137:656 Je 13 '24
Two-cycle double-acting M.A.N. Diesel engine. diag Mech Eng 47:46 Ja '25
Untersuchungen an der Dieselmaschine. K. Neumann. Zeit Ver Deutsch Ing 68:77-80 Ja 26 '24
Use of Diesel engines in power plants. L: R. Ford. Power Pl Eng 28:1003-4 O 1 '24
Use of oil engines has increased. il Power 61:22-4 Ja 6 '25
Uses of petroleum, with special reference to the production of power. H. Barringer. Inst Pet Tech J 11:104-26 Ap '25
Verbrennungsvorgänge im Dieselmotor. H. v. Wartenberg. Zeit Ver Deutsch Ing 68: 153-4 F 16 '24
Vergleich zwischen einer dampfturbinen- und einer dieselmotorenanlage von 7500 kw spitzenleistung in Amerika und in Deutschland. F. Ohlmüller. diags Elektrotech Zeit 46:1025-30 Jl 9 '25
Wear of the engine parts. diags Power 61: 952 Je 16 '25
Worthington Diesel engine. il Management & Adm 8:422 O '24

See also Semi-Diesel engines

Bearings

Practical Diesel engineering. L: R. Ford. il diags Marine Eng 30:226-30 Ap '25

DIESEL engines—*Continued*

Control

How governor controls Diesel speed. il diags Marine R 55:17-19 Ja '25

Cooling

Diesel cylinders cooled with rain water. il Power Pl Eng 29:792-4 Ag 1 '25

Operation of Diesel engines. R. Hildebrand. diags Power 61:98-9 Ja 20 '25

Overcoming cooling water difficulties in a Diesel plant. il Power Pl Eng 29:848 Ag 15 '25

Cost of operation

Cost of Diesel engine operation. Power Pl Eng 29:594-5 Je 1 '25

Diesel engine operating costs. Management & Adm 8:632 D '24; Elec W 85:772 Ap 11 '25

Diesel-engine operation in Arizona. S. Headman. Elec W 84:1112 N 22 '24

Diesel engines. J. B. Rathbun. Pet Age 16:57, 59 Ag 15; 57 S 1 '25

Economic status of the Diesel engine. L. H. Morrison. diags Engineering 117:91-4, 121-3 Ja 18-25 '24

Effect of high overhead charges. Power 58: 813-14 N 20 '23

Höchstpreise für stromlieferung. W. Windel. Elektrotech Zeit 46:117-19 Ja 22 '25

Menasha's pumping and lighting plant. J. H. Kuester. il Pub Works 55:85-7 Mr '24

Municipal Diesel operation at low rates. P. S. Joy. il plan Elec W 85:757-9 Ap 11 '25; Discussion. R. G. Walter. 85:1027 My 16 '25

Oil engines in ice plants. G. H. Corlette. Refrig W 60:9-13+ Mr '25

Value of efficiency in transforming and distributing energy. C: E. Lucke. Mech Eng 46:380-5 Jl '24

Exhaust

Significance of exhaust temperature. P. H. Smith. Engineering 118:544+ O 17 '24

Fuel

Burning boiler oil in Diesel engines. C. L. Ruegg. il diags Power 60:488-9 S 23 '24

Burning heavy fuel oil in Diesel engines. R. Hildebrand. il plan Eng & Min J 118:115-16 Jl 19 '24; Excerpts. Elec W 84:422-3 Ag 30 '24; Nat Pet N 16:114 Jl 9 '24; Abstract. Chem & Met Eng 32:253-4 F 9 '25

Centrifugal treatment of Diesel fuel oils; abstract. Mech Eng 47:750-1 S '25

Clean fuel oil improves Diesel operation. il diag Power Pl Eng 29:484-6 My 1 '25

Diesel engine fuels; data sheet. J. B. Rathbun. Pet Age 13:79 Mr 15 '24

Diesel engines. Pet Age 14:61 S 1 '24

Diesel fuel oil. J. B. Rathbun. Pet Age 16: 55 S 1; 57, 59 S 15; 53, 55 O 1; 61, 63 O 15; 55, 57 N 1 '25

L'emploi des combustibles lourds dans les moteurs Diesel. diag Génie Civil 86:269 Mr 14 '25

Fuels for Diesel engines. R. Schlatter. Power 59:923 Je 3 '24

Operation of Diesel engines. R. Hildebrand. diags Power 61:414-16 Mr 17 '25

Practical Diesel engineering. L: R. Ford. il diags Marine Eng 30:466-70 Ag '25

Preheating fuel oil for Diesel engines. R. A. Melrose. Power 60:904 D 2 '24

Use clean fuel in oil engines. L. H. Clark. il Marine R 55:291-3 Ag '25

Zur kenntnis der heiz- und treiböle. D. Aufhäuser. Zeit Ver Deutsch Ing 68:419-22 Ap 26 '24; Abstract. Power 60:231-2 Ag 5 '24

Fuel feeding

Untersuchungen über den einspritzvorgang bei Dieselmaschinen. W. Riehm. diags Zeit Ver Deutsch Ing 68:641-5 Je 21 '24

See also Diesel engines—Solid injection

Ignition

Bestimmung des zündpunktes unter druck. J. Tauss and F. Schulte. diags Zeit Ver Deutsch Ing 68:574-8 My 31 '24

Practical Diesel engineering. L: R. Ford. diags Marine Eng 30:172-6 Mr '25

Lubrication

Can we standardize power plant lubrication? A. F. Brewer. il Ind Management 69:75 F '25

Changing lubricating system on an old type Diesel engine. R. S. Martin. diags Power Pl Eng 28:803-4 Ag 1 '24

Diesel engine automatically lubricated. il diags Power Pl Eng 29:310-12 Mr 1 '25

Lubrication of the Diesel engine. diag Power Pl Eng 28:283-4 Mr 1 '24

Notes on oil-engine lubrication. R. G. Melrose. Power 61:696 My 5 '25

Operation of Diesel engines. R. Hildebrand. diags Power 61:255-7, 339-40 F 17, Mr 3 '25; Excerpt. Mech Eng 47:265 Ap '25

Practical Diesel engineering. L: R. Ford. diags Marine Eng 30:287-92 My '25

Über Dieselmaschinen-schmierfragen. W. Ernst. diags Zeit Ver Deutsch Ing 68:451-4 My 3 '24

See also Diesel engines, Marine—Lubrication

Manufacture

Aluminium alloy pistons for Diesel engines. F. Johnstone-Taylor. Marine Eng 29:397-8 Jl '24

Build Diesels to high standard. il Marine R 55:249-51 Jl '25

Building Diesel oil engines for Ford. L. S. Love. il Iron Age 114:977-82 O 16 '24

Building vertical oil engines. F. R. Daniels. il diag Mach 30:247-52 D '23

Fixtures for Diesel-engine pump cases. F. H. Colvin. il Am Mach 63:317-18 Ag 20 '25

Forging crankshafts for large Diesel engines. F. H. Colvin. il Am Mach 63:3-5 Jl 2 '25

How crankshafts for Diesel engines are machined. F. H. Colvin. il Am Mach 63:45-9 Jl 9 '25

Tools for machining Diesel cylinders, frames and bearing shells. F. H. Colvin. il Am Mach 63:271-2 Ag 13 '25

Performance

Diesel engine in city service establishes a non-stop record of 202 days. Munic Eng 66: 102 Mr '24

Engine that ran 202 days. il Am Ind 24:20-1 My '24

Prices

Bids show range in Diesel costs. il Marine R 54:347-8 S '24

Repair

Diagnosis of Diesel-engine defects from indicator diagrams. R. C. Melrose. Power 59: 898-9 Je 3 '24

Overhauling a Diesel engine. M. S. Howard. diags Power Pl Eng 28:139-41 Ja 15 '24

Repair of a wrecked engine. J: D. D. Cook. il Power 60:1061-3 D 30 '24

Solid injection

Compressorless Diesel engines. O: Gunther. Marine Eng 30:141 Mr '25

Einspritz- und verbrennungsvorgänge in kompressorlosen dieselmotoren. V. Heidelberg. il diags Zeit Ver Deutsch Ing 68:1047-52 O 4 '24

Features of airless injection engines. H. F. Birnie. diags Power Pl Eng 29:642-4, 745-9, 846-8 Je 15, Jl 15, Ag 15 '25

Features of airless injection oil engines. H. F. Birnie and R. C. Baumann. il diags Power Pl Eng 28:751-4, 1056-8, 1143-7, 1251-4; 29:137-40 Jl 15, O 15, N 15, D 15 '24, Ja 15 '25

Foos four-stroke-cycle solid-injection engine with novel features. il diags Power 61:212-14 F 10 '25; Chem & Met Eng 32:64 Ja 12 '25

Improvements made to Fairbanks-Morse Diesel engine. il Power 61:296-8 F 24 '25; Ry Age 78:749-50 Mr 14 '25; Ry Mech Eng 99:180-1 Mr '25; Ry R 76:476-7 My 7 '25; Zeit Ver Deutsch Ing 69:1289-96 O 10 '25

DIESEL engines—Solid injection—*Continued*
Polar two-cycle heavy oil engine. il diags Engineering 119:26-7 Ja 2 '25; Engineer 138: 648 D 5 '24
Solid-injection oil engines. R. Hildebrand. il diags Mech Eng 47:261-5 Ap '25
Some considerations on solid injection for high speed engines. R. Matthews. diags Power 61:862-3 Je 2 '25
Test of the Hesselman solid-injection oil engine. E. Lundgren. il Power 61:523 Ap 7 '25
Use of oil engines has increased. il Power 61:22-4 Ja 6 '25
Versuchsergebnisse einer Hesselman-verbrennungsmaschine. E. Hubendick. il diags Zeit Ver Deutsch Ing 69:737-41 My 30 '25

Testing

Bethlehem engineers test U.S. designed oil engine. il Marine R 54:24-7 Ja '24
Diesel engine shows low fuel consumption. R. C. Burrus. il Power Pl Eng 27:1183-4 D 1 '23
Investigating the Diesel engine. K. Newmann. Power 59:1045-6 Je 24 '24
Significance of exhaust temperature. P. H. Smith. Engineering 118:544+ O 17 '24; Abstract. Mech Eng 47:47 Ja '25

Valves

Diesel engine fuel valves. H. F. Birnie and R. C. Baumann. il Power Pl Eng 28:336-8, 381-3, 488-91, 598-9 Mr 15-Ap 1, My 1, Je 1 '24
Eliminating some troubles with Diesel exhaust valves. A. B. Newell. Power 61:187 F 3 '25
Operation of Diesel engines. R. Hildebrand. diags Power 61:651-2, 735-6, 989-90 Ap 28, My 12, Je 23 '25
Practical Diesel engineering. L: R. Ford. il diags Marine Eng 30:110-14 F '25
Setting the valves of a Diesel engine. H. F. Birnie and R. C. Baumann. il diags Power Pl Eng 28:180-2, 230-2 F 1-15 '24

DIESEL engines, Marine
Another victory for oil equipment, the tugboat Cornell. L: S. Treadwell. il diag Sci Am 133:314-15 N '25
Application of the Diesel engine to the yachting field. G: A. Colley. Soc Auto Eng J 13: 450-2; Discussion. 452+ D '23
Big engine builder turns to Diesel; M.A.N. engines. il diags Marine R 54:203-7 Je '24
Big motorship for Henry Ford. J. C. Workman. il diags Marine R 54:277-9 Jl '24
Big U.S. Diesel engine. il diag Marine R 54: 24-7, 100-1+ Ja, Mr '24
British shipowners analyze performance of motorships and discuss shipping combines and restriction of coastwise trade. W. H. Wendon. Marine Eng 29:77 F '24
British shipowners consider future of Diesel engine. W. H. Wendon. Marine Eng 29:146-7 Mr '24
Build Diesels to high standard. il Marine R 55:249-54 Jl '25
Cam profiles and fuel injection on Diesel engines. F. Johnstone-Taylor. diag Marine Eng 29:665-6 N '24
Coxe-Lagergren combined steam and Diesel engine proposed. diags plan Marine Eng 30: 24-6 Ja '25
Crank and line shafts for double acting oil engines. J. Hecking. diags Marine Eng 30: 97-102, 167-71 F-Mr '25
Diesel-driven motor car ferry for Canada. Sci Am 130:111 F '24
Diesel engine developments in Germany; Föttinger hydraulic coupling system. il Marine Eng 29:168-9 Mr '24
Diesel engine drives river towboat. il Power Pl Eng 28:437 Ap 15 '24
Diesel machinery for 20,000-ton passenger liner. il diag Marine Eng 29:291-2 My '24
Double acting Diesels. F. Johnstone-Taylor. diags Marine Eng 29:605-6 O '24
Einfachwirkender viertakt-schiffsdiesel- motor von 2000 PS$_e$, gebaut von der maschinenfabrik Augsberg-Nürnberg, Werk Augsburg. il diags Zeit Ver Deutsch Ing 69:769-72, pl 5 Je 6 '25
Engines of the motor ship Aorangi. Engineer 137:317 Mr 21 '24
Engines of the world's largest motorship; the Aorangi. diags Power 61:316 F 24 '25
Expert analyzes Diesel bids. Marine R 54:502-7 D '24
Four cylinder reversible four cycle Diesel engine perfected; the Reposo. il Marine Eng 30:500 S '25
How the world's largest Diesel was built; abstract. F: Englert. Mech Eng 46:95-6, 155, 283 F-Mr, My '24
Hybrid steam Diesel engine. diag Sci Am 132:330-1 My '25
Increasing the output of oil engines. Power 62: 245 Ag 18 '25
Internal-combustion and steam engines for high-speed passenger vessels. J: Biles. diags Engineering 119:414-17, 462-4 Ap 3-10 '25; Same. Marine Eng 30:293-301 My '25; Same cond. Engineer 139:388-9 Ap 3 '25; Abstract. Mech Eng 47:506-7 Je '25; Discussion. Engineering 119:424-5 Ap 3 '25; Engineer 139:377, 379 Ap 3 '25
M.S. Swanley equipped with North British double-acting two-cycle engine. il diags plans Marine Eng 29:524-6 S '24
Machinery for the first Diesel-driven passenger liner, the Aorangi. Engineering 117: 376-7 Mr 21 '24
Maintenance and care of Diesel engines. O. Olson. Marine Eng 29:169-70 Mr '24
Le moteur Diesel dans la marine marchande; les paquebots à moteurs. O. Quéant. diags Génie Civil 86:576-80 Je 13 '25
Le moteur Diesel-Worthington à deux temps et à double effet. il diags Génie Civil 85: 441-3 N 15 '24
Motor passenger liner Asturias. il Engineering 120:45-6, 48 Jl 10 '25
Motor passenger liners; some aspects of the present physical capabilities of the marine Diesel engine. A. C. Hardy. diags Marine Eng 30:553-8 O '25
Neueste bestrebungen beim schiffsantrieb durch Dieselmotoren. E. Goos. il diags Zeit Ver Deutsch Ing 68:435-41 My 3 '24
New Burmeister and Wain double acting engine. il diag Marine Eng 30:208-10 Ap '25
New double acting oil engined ships; cargo ship City of Stockholm and the passenger liner Gripsholm. il Marine Eng 30:612-13 N '25
New European oil engines. il Marine Eng 30:400-1 Jl '25
New oil engine of American design; Bethlehem two-cycle Diesel type. il diags Marine Eng 29:161-7 Mr '24
New type of double-acting Diesel engine for marine purposes. G. J. Lugt and H. Hunter. diags Engineering 118:26-30 Jl 4 '24; Abstract, with discussion. Engineer 138:19, 23-4 Jl 4 '24
North British 2,000 horsepower double-acting Diesel engine. il Marine Eng 28:763 D '23; Mech Eng 46:353-4 Je '24
North-eastern Werkspoor double-acting marine oil engine. diag Engineer 137:604, 626-7, 630, 661 My 30-Je 13 '24; Engineering 117: 707-8, 771, pl 68-71 My 30, Je 13 '24; Marine Eng 29:421-2 Jl '24
Le paquebot à moteurs Diesel Aorangi. O. Quéant. il diags plans Génie Civil 86:301-5, pl 3 Mr 28 '25
Power for marine purposes. W. T. Donnelly. Electrician 93:95-6 Jl 25 '24
Powerful motor salvage vessel built in Germany; Sulzers build largest two cycle Diesel engine. il Marine Eng 30:158-9 Mr '25
Practical Diesel engineering. L: R. Ford. il diags Marine Eng 29:607-10, 669-73 O-N '24
Present status of the marine Diesel engine. Marine Eng 29:68-70 F '24
Reversing systems of large marine oil engines. V. Holmes. diags Marine Eng 29: 350-5 Je '24
Schiffsdieselmaschinen mit druckeinspritzung und rädergetriebe. diags Zeit Ver Deutsch Ing 68:93-4 F 2 '24
Six tank ships to have double-acting Diesel engines. Marine Eng 29:668 N '24

DIESEL engines, Marine—*Continued*
Sliding-cylinder double-acting two-cycle Diesel engines; abstract. J. C. M. Maclagan. Mech Eng 47:355-6 My '25
Sliding cylinder two-cycle double-acting marine oil engine. il diags Engineer 137: 451-2, 483-5 Ap 25-My 2 '24; Abstract. Power 59:1007 Je 17 '24
Sun-Doxford engines of the Henry Ford II. il diags Marine Eng 29:334-7 Je '24
Suphenco has new Diesel for big output. il Marine R 54:114-16 Mr '24
Tosi Diesel engine. G. C. Ziliotto. diags Marine Eng 29:357-60 Je '24
La transmission de l'arbre moteur à l'arbre porte-hélice sur les navires munis de moteurs Diesel. Lang and Dol. diags Génie Civil 86:286-9 Mr 21 '25
Twin-screw motor liners to have 20,000 horsepower. il diag Marine Eng 30:331-3 Je '25
Types of foreign marine Diesel engines. H. F. Birnie. il diags Power Pl Eng 29:951-4 S 15 '25
Umsteuerbare und nicht umsteuerbare schiffsdieselmaschinen. M. W. Gerhards. Zeit Ver Deutsch Ing 68:579-80 My 31 '24
Use of fuel under boilers and in Diesel engines for ship propulsion. J. E. Sheedy. Am Pet Inst Bul 4:18-21 D 31 '23
Vickers Diesel engine of 3,500 I.H.P. installed on single screw vessel for North Atlantic service. il diags Marine Eng 29:710-12 D '24
Wallsend-Sulzer marine Diesel engine. Engineering 117:744 Je 6 '24
Waste heat recovery on ships. Engineer 136: 617-18 D 7 '23
Winton improved Diesel engine. il Marine Eng 30:637-9 N '25
Worthington new Diesel engine uses both strokes for power. Sci Am 132:116-17 F '25
Worthington 2-cycle double-acting Diesel engine. il diag Engineering 118:482-4, 485 O 3 '24; Blast F & Steel Pl 12:436+ S '24; Eng & Min J 118:433-4 S 13 '24; Iron Age 114: 559-60 S 4 '24; Manuf Rec 86:86 S 11 '24; Marine Eng 29:528-30, 585-7 S-O '24; Marine R 54:374-5, 390-2 S-O '24; Power 60:457-9 S 16 '24; Power Pl Eng 28:976-7 S 15 '24
Yacht Typee equipped with new Mianus reversible Diesel engine. il Marine Eng 30:441-2 Ag '25

See also Camellaird-Fullagar engine; Motor ships; Motor ships—Steamboat conversion

Cost

Summary of bids opened October 14, 1924, by U.S. Shipping board for furnishing Diesel engines. Marine Eng 29:687 N '24

Lubrication

Lubricating Diesel engines and auxiliary machinery. Marine Eng 29:298-300 My '24

Repair

Changing a section of the crank shaft in a Diesel engine. A. F. Menzies. il Marine Eng 29:243 Ap '24

Testing

Abnahmeprüfung eines kompressorlosen MAN-Dieselmotors. W. Laudahn. il diags Zeit Ver Deutsch Ing 69:1261-6 O 3 '25

Further experimental work on Diesel engines. R. Beeman. Engineer 137:487-8, 517-18, 547-8, 578-9 My 2-23 '24; Same cond. Engineering 117:559, 589-91, 624-5 Ap 25-My 9 '24; Abstract. Mech Eng 46:422 Jl '24; Discussion. Engineer 137:474-5 My 2 '24; Engineering 117:515 Ap 25 '24

30-day test on Worthington double-acting Diesel. Power 60:749 N 4 '24; Marine Eng 29:754 D '24

DIESEL engines, Submarine
Moteur Diesel à deux temps, pour sous-marins, construit dans les usines L. Nobel, à Pétrograd. G: Held. il diags Génie Civil 84:378-80 Ap 19 '24

Submarine engines and heavy-oil engine electric generating sets. P. A. Holliday. Engineering 119:276 F 27 '25

DIET
Dietary regulations in public institutions of Denmark. L. S. Fridericia. Nation's Health 7:309-12 My '25
Institutional dietary. Nation's Health 6:39-40 Ja '24
Reproduction of animals on an exclusive diet of bread. C. Hoffman. il Ind & Eng Chem 15:1225-32 D '23
Whole and skimmed milk powders as food; observations on a new vitamin for reproduction. L. T. Anderegg and V. E. Nelson. Ind & Eng Chem 17:451-5 My '25

See also Diabetes; Gelatin as food; Milk; Nutrition; Vitamins

DIET laboratory
Out-patient diet laboratory. il Nation's Health 6:544-5 Ag '24

DIETHYL ether
Vapor pressure curves for systems containing alcohol, ether, and water. E. A. Louder, T. R. Briggs and A. W. Browne. diag charts Ind & Eng Chem 16:932-5 S '24

DIETHYL ketone
Condensation products of diethyl ketone. J: B. Ekeley and M. S. Carpenter. Am Chem Soc J 46:446-50 F '24

DIETHYL sulfate
Laboratory preparation of diethyl sulfate. E. V. Lynn and H. A. Shoemaker. Am Chem Soc J 46:999-1001 Ap '24

DIETHYLPENTANE
3:3-diethylpentane (tetraethylmethane). G. T. Morgan, S. R. Carter and A. E. Duck. Chem Soc J 127:1252-9 Je '25

DIETHYLPHTHALATE
Detection of diethylphthalate. S: Levinson. Ind & Eng Chem 17:929 S '25
Detection of diethylphthalate in ethyl alcohol. J. T. Raleigh and S. U. Marie. Am Chem Soc J 47:589-90 F '25
Detection of diethylphthalate in perfume. F: Breithut and P. M. Apfelbaum. Ind & Eng Chem 17:534 My '25

DIETZ, August
Where type has found a tongue; workshop of August Dietz, Richmond, Va. W. Hurt. Inland Ptr 74:229-32 N '24

DIFFERENTIAL equations
Differential equations in applied chemistry. F. L. Hitchcock and C. S. Robinson. 110p Wiley '23

Lectures on Cauchy's problem in linear partial differential equations. J. S. Hadamard. 316p Oxford '23

DIFFRACTION
Determination of opaque ore-minerals by X-ray diffraction patterns. P. F. Kerr. diags Econ Geol 19:1-34, pl 1-2 Ja '24
Diffraction. H. P. M. Bouasse and Z. Carrière. 480p Delagrave, Paris '23
Diffraction image of two close luminous lines of finite width. B. E. Mourashkinsky. diags Philos Mag 6th ser 47:1105-20 Je '24
Diffraction image of two close luminous planes. B. E. Mourashkinsky. Philos Mag 6th ser 46:802-15 N '23
Notes on some diffraction experiments. S. Ray. il Phys R 25:208-10 F '25
Study of crystal structure and its applications. W. P. Davey. Gen Elec R 27:742-8 N '24 (to be cont)

DIFFRACTION gratings
Experimental study of grating errors and ghosts. R. W. Wood. Philos Mag 6th ser 48:497-508, pl 11 S '24
Ruling 15,000 lines per inch; machine for ruling gratings and how it was built. F. A. Stanley. il diags Am Mach 60:161-6 Ja 31 '24; Abstract. Sci Am 130:270 Ap '24

DIFFUSION
Average cross-sectional areas of molecules by gaseous diffusion methods. E: Mack, jr. diags Am Chem Soc J 47:2468-82 O '25
Coefficients of diffusion of certain alkali salt vapors in the Bunsen flame. G: E. Davis. diags Phys R 24:383-95 O '24

DIFFUSION—*Continued*
Diffusion of carbon thru tungsten and tungsten carbide. M. R. Andrews and S. Dushman. J Phys Chem 29:462-72 Ap '25
Diffusion of hydrogen through metals. H. G. Deming and B. C. Hendricks. diag Am Chem Soc J 45:2857-64 D '23
Diffusion of mercury and of iodine vapours through nitrogen. J. M. Mullaly and H. Jacques. diag Philos Mag 6th ser 48:1105-22 D '24
Diffusion of oxygen through silver. F. M. G. Johnson and P. Larose. diags Am Chem Soc J 46:1377-89 Je '24
Self-diffusion in solid metals; abstract. G. Hevesy and A. Obrutsheva. J Fr Inst 200: 633-4 N '25
Some chemical deposits of a regular form. J. M. Mullaly. Philos Mag 6th ser 49:1222-5 Je '25

See also Colloids

DIGALLIC acid
Gallotannin; the identity of digallic acid from gallotannin with synthetic meta-digallic acid. M. Nierenstein, C. W. Spiers and P. R. Hatcher. Am Chem Soc J 47:846-50 Mr '25

DIGESTERS (paper making)

Failures

Digester explosion at Lock Haven, Pa. il diags plan Locomotive 35:162-5 Ap '25

DIHALOGENODINITROMETHANES
Preparation and reactions to the dihalogenodinitromethanes. R. A. Gotts and L: Hunter. Chem Soc J 125:442-50 F '24

DIHYDROPENTINDOLE
Dihydropentindole and its derivatives. W: H. Perkin, jr. and S. G. P. Plant. Chem Soc J 123:3242-7 D '23

DIHYDROQUINALDINE
Synthesis of 1:2-dihydroquinaldine. F: A. Mason. Chem Soc J 127:1032-5 My '25

DIHYDRORESORCINOLS
Formation and stability of associated alicyclic systems; the formation and disruption of dicyclic dihydroresorcinols; abstract. E. H. Farmer and J. Ross. Soc Chem Ind J (Chem & Ind) 44:332-3 Mr 27 '25

DIHYDROSITOSTEROL
Reduction of sitosterol; preparation of dihydrositosterol or sitostanol. R. J. Anderson and F. P. Nabenhauer. Am Chem Soc J 46: 1953-6 Ag '24

DIHYDROXYBENZOYL benzoic acid
2,4-dihydroxybenzoyl-ortho-benzoic acid and some of its derivatives. W. R. Orndorff and E. Kline. Am Chem Soc J 46:2276-91 O '24

DIHYDROXYDIPHENYL
Study of dihydroxydiphenyl with special reference to the synthesis of azo dyes. A. I. Anderson and R. Babigan. Textile Col 46: 494-6 Ag '24

DIHYDROXY-isobutyric acid
C_4-saccharinic acids; the preparation of *dl*-1,2-dihydroxy-isobutyric acid and a study of some of its derivatives. J. W. E. Glattfeld and L. P. Sherman. Am Chem Soc J 47:1742-51 Je '25

DIHYDROXYMALEIC acid
Decomposition of dihydroxymaleic acid. A. Locke. Am Chem Soc J 46:1246-52 My '24
Derivatives of citraconic acid; the synthesis of methyltartaric acid and the decomposition of dihydroxymaleic acid. W. F. Goebel. Am Chem Soc J 47:1990-8 Jl '25

DIHYDROXYSTEARIC acid
Oxidation products of oleic acid; degradation of dihydroxystearic acid. A. Lapworth and E: N. Mottram. Chem Soc J 127:1987-9 S '25

DIJON, France

Architecture

Gables, dormers and chimneys in old Dijon. Am Inst Arch J 13:13-15 Ja '25
Street façades in Dijon. il Arch Forum 42: 244a-h, 328a-h Ap-My '25

DIKES (engineering)
Effect of flowing water on the stability of sand. C. M. Daily. Eng N 94:649 Ap 16 '25

DIKES (geology)
Clastic dikes of eastern Washington and their geologic significance. O. P. Jenkins. bibliog il Am J Sci 5th ser 10:234-46 S '25
Mechanics of clastic dike intrusion. O. P. Jenkins. il diag Eng & Min J 120:12 Jl 4 '25

DIKETONES
Action of selenium tetrachloride on di- and tri-ketones; selenium phenylacetyl- and β-phenylpropionyl-acetones. G. T. Morgan and C: R. Porter. Chem Soc J 125:1269-77 Je '24
Interaction of tellurium tetrachloride and the higher β-diketones. G. T. Morgan and others. Chem Soc J 125:731-65 Mr '24
Researches on residual affinity and co-ordination; interactions of germanium tetrahalides and β-diketones. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:1261-9 Je '24
Researches on residual affinity and co-ordination; interactions of zirconium salts and β-diketones. G. T. Morgan and A. R. Bowen. Chem Soc J 125:1252-61 Je '24
Researches on residual affinity and coordination; stannic derivatives of β-diketones. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:372-81 F '24
Unsaturated 1,4-diketones; halogen derivatives of dibenzoyl-ethylene and related substances. J. B. Conant and R. E. Lutz. Am Chem Soc J 47:881-92 Mr '25

DILACTONES
Hepto- and nono-dilactones. G: M. Bennett. Chem Soc J 127:1277-82 Je '25

DILATOMETER
Dilatometers. diags Engineer 139:sup37-40 Mr 27 '25
Résultats obtenus par l'étude dilatométrique des fontes. P. Chevenard and A. Portevin. Génie Civil 86:611-12 Je 20 '25
Rockwell dilatometer for determining correct hardening temperatures of steel. S. P. Rockwell. il diags Mach 32:147-9 O '25
Rockwell dilatometer for heat treating steel. il Iron Age 116:751 S 17 '25
Ein verbessertes differential-dilatometer bauart Chevenard. P. Oberhoffer and L. E. Daweke. il diags Stahl & Eisen 45:887-90 Je 4 '25

DILLER, Harry Elvin, 1878-1924
Sketch. por Foundry 52:113+ F 1 '24

DILLON, Clarence
Clarence Dillon, the man who bought Dodge. B. C. Forbes. por Forbes 16:163-6+ My 15 '25

DILUTION
Dilution law for uni-univalent salts. B. Szyszkowski. J Phys Chem 28:193-211 Mr '24
Free energy of dilution and the activity of the ions in aqueous solutions of barium chloride. J. N. Pearce and R. W. Gelbach. J Phys Chem 29:1023-30 Ag '25
Free energy of dilution and the activity of the ions of hydrogen iodide in aqueous solution. J. N. Pearce and A. R. Fortsch. Am Chem Soc J 45:2852-7 D '23

DIMENSIONAL analysis
Dimensional analysis. P. W. Bridgman. Philos Mag 6th ser 47:481-94 Mr '24; Discussion. E. Buckingham. 48:141-5 Jl '24
Dimensional analysis. N. Campbell. Philos Mag 6th ser 49:284-5 Ja '25
Ultimate rational units and dimensional theory. G. N. Lewis. Philos Mag 6th ser 49:739-50; Discussion. O. J. Lodge. 751-2 Ap '25

DIMENSIONAL notation
Dimensional system of notation. V. Petrovsky. Gen Elec R 28:757-61 N '25

DIMETHINEDIAZIDINES
Additive formation of four-membered rings; the conditions which confer stability on the dimethinediazidines. C. K. Ingold and H: A. Piggott. Chem Soc J 123:2745-52 N '23

DIMETHOXYBENZALDEHYDE
Nitration of 2:3-dimethoxybenzaldehyde. W: H: Perkin, jr., R. Robinson and F. W. Stoyle. Chem Soc J 125:2355-8 N '24

DIMETHOXYSUCCINATES
Studies in optical superposition; the methyl-*n*-hexylcarbinyl dimenthoxysuccinates. T. S. Patterson and C: Buchanan. Chem Soc J 125:2579-90 D '24

DIMETHOXYTRIPHENYLMETHYLS
Triphenylmethyl; 2,5-, 2,4-, and 3,4-dimethoxy-triphenylmethyls. M. Gomberg and G. C. Forrester. Am Chem Soc J 47:2373-91 S '25

DIMETHYL sulfate
Methylations; hydrolysis of dimethyl sulfate. H. F. Lewis, O. Mason and R. Morgan. Ind & Eng Chem 16:811-12 Ag '24

DIMETHYLAMINOBENZALDOXIMES
Isomerism of the oximes; 3-nitro- and 3-bromo-*p*-dimethylaminobenzaldoximes. O. L. Brady and R: Truszkowski. Chem Soc J 123: 2434-9 O '23

DIMETHYLCHROMONE
Chemical reactivity and conjugation: the reactivity of the 2-methyl group in 2:3-dimethylchromone. I. M. Heilbron, H. Barnes and R: A. Morton. Chem Soc J 123:2559-70 O '23

DIMETHYLCYCLOPENTENE aldehyde
Studies on the reactions relating to carbohydrates and polysaccharides; synthesis of 2,3-dimethyl-cyclopentene aldehyde. R. R. Read and H. Hibbert. Am Chem Soc J 46:1281-3 My '24

DIMETHYLDICYCLOPENTENE
Chemistry of polycyclic structures in relation to their homocyclic unsaturated isomerides; orientation in the *gem*-dimethyl*dicyclo*-pentene series. R. C: Grimwood, C. K. Ingold and J. F. Thorpe. Chem Soc J 123: 3303-10 D '23

DIMETHYLDITHIOLETHYLENE
Researches on residual affinity and co-ordination; heats of chelation of dithiolated metallic halides. G. T. Morgan, S. R. Carter and W: F. Harrison. Chem Soc J 127: 1917-25 S '25

DIMETHYLENE-OXAIMINES
Additive formation of four-membered rings; the formation of stable dimethylene-1:2-oxaimines from ethylenes and nitroso-compounds, with special reference to the direction of the addition. C. K. Ingold and S. D. Weaver. Chem Soc J 125:1456-62 Jl '24

Additive formation of four-membered rings; the synthesis and division of some dimethylene-1:3-oxaimines. C. K. Ingold. Chem Soc J 127:1141-5 My '25

DIMETHYLGLYOXALINES
Relation of pilocarpidine to pilocarpine; synthesis of 1:4- and 1:5-dimethylglyoxalines. R: Burtles, F. L. Pyman and J. Roylance. Chem Soc J 127:581-91 Mr '25

DIMETHYLGLYOXIME
Simplified method for the preparation of dimethylglyoxime. W. L. Semon and V. R: Damerell. Am Chem Soc J 47:2033-9 Jl '25

DIMETHYLPHENYLURIC acid
Action of alkali on substituted uric acids; 1, 3-dimethyl-9-phenyl-uric acid. E. S. Gatewood. Am Chem Soc J 45:3056-64 D '23

DIMETHYLQUINAZOLONE
Chemical reactivity and conjugation; the reactivity of the 2-methyl group in the 4-quinazolone series. I. M. Heilbron and others. Chem Soc J 127:2167-75 S '25

DIMETHYLTIN
Dimethyltin group and some of its reactions. C: A. Kraus and W. N. Greer. Am Chem Soc J 47:2568-75 O '25

DIMORPHISM
Dimorphism of diphenylarsenious chloride (diphenylchloroarsine). C: S. Gibson and D. C. Vining. Chem Soc J 125:909-11 Ap '24

DINAPHTHYL ether
Preparation of ββ′-dinaphthyl ether. W. M. Rodionow and S. J. Manzow. Soc Chem Ind J 42:509-10 D 28 '23

DINING cars
C.B. & Q. serves nearly two million meals in one year. il Ry R 77:671-2 O 31 '25
Dining cars net loss of 25 cents each meal. Ry R 75:587 O 18 '24
Electrically equipped kitchens on trains. il Engineering 118:480-1 O 3 '24
Floor plan of the Chicago & Alton dining cars. Ry Mech Eng 98:670 N '24
Interstate starts dining car service. il plan Elec Ry J 62:1053-4 D 22 '23
Kitchen and sleeping cars on L.M.S. il Ry Age 79:609-10 O 3 '25
Latest type North Shore diner. il plan Elec Ry J 63:214 F 9 '24
London and North-Eastern railway—new kitchen and dining cars. il Engineer 138:380 O 3 '24
New dining car of Santa Fe has distinctive feature. il Ry R 77:177, 252 Ag 1, 15 '25
Railroad dining car as an advertising force. Ptr Ink M 10:94+ My '25
Railway dining car service in America. Ry Age 76:888 Ap 5 '24; Same. Ry R 74:661-2 Ap 5 '24
St Paul to rebuild dining cars. il plan Ry Age 79:404-5 Ag 29 '25; Same. Ry Mech Eng 99: 571-2 S '25
Should dining service be expected to pay? Ry Age 77:675 O 18 '24

DINING rooms
Decorating the public dining room. il plan Am Arch 125:523-8 Je 4 '24
Dining room and its problems in design. il Am Arch 125:81-6 Ja 16 '24
Dining room disappears. il Bldg Age 46:82 Ap '24

DINITROBENZENE
Influence of pressure on the freezing point of *p*-nitrotoluene, *m*-dinitrobenzene and guaiacol. N. A. Pushin. diag Chem Soc J 125:2628-30 D '24
Ionisation of aromatic nitro-compounds in liquid ammonia. M. J. Field, W: E. Garner and C. C. Smith. Chem Soc J 127:1227-37 Je '25
Solubility relations of isomeric organic compounds; the mutual solubility of the three dinitrobenzenes. D. H. Andrews. J Phys Chem 29:1041-7 S '25

DINITROSORESORCINOL
Bright green with dinitrosoresorcinol. Am Dyestuff Rep 14:608 S 7 '25
New qualitative tests for copper, iron and cobalt. M. L. Nichols and S. R. Cooper. Am Chem Soc J 47:1268-70 My '25

DINITROTOLUENE
Ionisation of aromatic nitro-compounds in liquid ammonia. M. J. Field, W: E: Garner and C. C. Smith. Chem Soc J 127:1227-37 Je '25
Preparation of 2:3-, 2:5-, and 3:4- dinitrotoluenes. H. J. Page and B: R: Heasman. Chem Soc J 123:3235-42 D '23

See also Chlorodinitrotoluenes

DINOSAURS
Oldest eggs in the world. il Sci Am 130:77 F '24
On dinosaurs in Northern Asia. I. Tolmachoff. Am J Sci 5th ser 7:489-90 Je '24

DIOPSIDE
Space group of diopside. [$CaMg(SiO_3)_2$]. R. W. G. Wyckoff and H. E. Merwin. il Am J Sci 5th ser 9:379-94 My '25

DIPHENEINS
Dipheneins from resorcinol and substituted diphenic anhydrides; structure of certain diphenyl derivatives. H. Adkins, E: F. Steinbring and E. Pickering. Am Chem Soc J 46:1917-24 Ag '24

DIPHENIC acid
Preparation of derivatives of diphenic acid possessing the properties of local anesthetics. R. C. Roberts and T. B. Johnson. Am Chem Soc J 47:1396-1402 My '25

DIPHENIC acid—*Continued*
Studies in the diphenic acid and in the fluorenone series. H. W. Underwood, jr., and E. L. Kochmann. Am Chem Soc J 45:3071-7 D '23

Studies in the diphenic acid series. H. W. Underwood, jr. and E. L. Kochmann. Am Chem Soc J 46:2069-78 S '24

DIPHENIC anhydrides
Dipheneins from resorcinol and substituted diphenic anhydrides; structure of certain diphenyl derivatives. H. Adkins, E: F. Steinbring and E. Pickering. Am Chem Soc J 46:1917-24 Ag '24

DIPHENYLAMINE
Color tests for nitro derivatives of diphenylamine. T. L. Davis and A. A. Ashdown. Am Chem Soc J 46:1051-4 Ap '24

Diphenylamine as indicator in the reduction of vanadic acid; determination of vanadium in steels, ferro-alloys, and ores. N. H. Furman. Ind & Eng Chem 17:314-16 Mr '25

Diphenylamine as indicator in the titration of iron with dichromate solution. J. Knop. Am Chem Soc J 46:263-9 F '24

Diphenylamine indicator in the volumetric determination of iron. W. W. Scott. Am Chem Soc J 46:1396-8 Je '24

Transformations of diphenylamine during the aging of smokeless powder. T. L. Davis and A. A. Ashdown. Ind & Eng Chem 17:674-5 Jl '25

DIPHENYLARSENIOUS chloride. See Chlorodiphenylarsine

DIPHENYLDIARSONIC acid
Preparation and properties of 4,4-diphenyldiarsonic acid. A. E. Hill. Am Chem Soc J 46:1855-7 Ag '24

DIPHENYLETHANE
Catalytic condensation of acetylene with benzene and its homologs. J. S. Reichert and J. A. Nieuwland. Am Chem Soc J 45:3090-1 D '23

DIPHENYLFORMAMIDINE
Condensation of diphenylformamidine with phenols; a new synthesis of β-resorcylaldehyde. J: B. Shoesmith and J: Haldane. Chem Soc J 123:2704-7 O '23

Condensation of diphenylformamidine with phenols; the general nature of the reaction. J: B. Shoesmith and J: Haldane. Chem Soc J 125:2405-7 N '24

DIPHENYLGUANIDINE
Diphenyl guanidine. India Rubber W 70:589-90 Je '24

Manufacture and testing for accelerator action of the di- and tri-arylguanidines. W. J. S. Naunton. Soc Chem Ind J 44: 243-7 My 22 '25

Use of diphenylguanidine. Rubber Age 14:382 F 25 '24

Use of diphenylguanidine as an accelerator of vulcanisation. W. M. Ames. Soc Chem Ind J 43:117-24 Ap 25 '24; Excerpts. India Rubber W 70:588-9 Je '24

DIPHENYLMETHANE
Search in the diphenylmethane series for the isomerism characteristic of certain diphenyl derivatives. C. L. Butler, jr. and R. Adams. Am Chem Soc J 47:2610-20 O '25

DIPHENYLMETHYLPIPERAZINE
Resolution of *dl*-diphenylpropylenediamine and *dl*-1:4-diphenyl-2-methylpiperazine. F: B. Kipping and W: J. Pope. Chem Soc J 125: 2396-9 N '24

DIPHENYL-para-tolyl-acethydroxamic acid
Rearrangement of diphenyl-para-tolyl-acethydroxamic acid. C: D. Hurd and H: J. Brownstein. Am Chem Soc J 47:174-8 Ja '25

DIPHENYLPROPYLENEDIAMINE
Resolution of *dl*-diphenylpropylenediamine and *dl*-1:4-diphenyl-2-methylpiperazine. F: B. Kipping and W: J. Pope. Chem Soc J 125: 2396-9 N '24

DIPHENYLTHIOUREA. See Thiocarbanilide

DIPLOMATIC and consular service
Foreign bureaus of information in New York city. R. Gossage. Supplement to Special Libraries July, 1925

DIPOTASSIUM tetranitroethane
Halogenation of *s.*-dipotassium tetranitroethane. L: Hunter. Chem Soc J 125:1480-4 Jl '24

DIPPING fluids, Arsenical
Arsenical dip in dry form. Chem Age 32:319-20 Jl '24

DIPYRIDYLS
Dipyridyls from pyridine. C. R. Smith. Am Chem Soc J 46:414-19 F '24

DIPYRUVIC triureide
Researches on hydantoins; pyvuril and dipyruvic triureide. D: Davidson. Am Chem Soc J 47:255-9 Ja '25

DIPYRUVIC ureide
Researches on hydantoins; dipyruvic ureide. D: Davidson and T. B. Johnson. Am Chem Soc J 47:561-7 F '25

DIQUINOLYL. See Biquinoline

DIRECT current motors. See Electric motors, Direct current

DIRECT mail advertising. See Advertising, Mail

DIRECT mail advertising association
Annual meeting, 7th, Pittsburgh, October 29-31. Ptr Ink 129:149+ O 2; 41-2+ N 6 '24
How Direct mail audit bureau will operate. Ptr Ink 125:137-8 N 29 '23

DIRECT-selling companies, incorporated, Association of. See Association of direct-selling companies, incorporated

DIRECTION finding apparatus
Development of the Bellini-Tosi system of direction-finding in the British mercantile marine. J. A. Slee. Inst E E J 62:543-50 Je '24; Abstract. Electrician 92:320 Mr 14 '24; Discussion. Inst E E J 62:550-7 Je '24
Direction and position finding by wireless. R. Keen. 376p Wireless press, London, New York '22
Direction finding on the S. S. Assyria. il Electrician 94:177+ F 13 '25
Direction-finding wireless. Engineering 118:866 D 26 '24
Directional wireless telegraphy in aircraft. C. K. Chandler. diags Inst E E J 61:803-11 Jl '23; Discussion. 62:129-31 Ja '24
Discussion of the practical systems of direction-finding by reception. R. L. Smith-Rose and R. H. Barfield. 26p Gt. Brit. Radio research board, London '23
Effect of the shape of the transmitting aerial upon observed bearings on a radio direction-finder. R. L. Smith-Rose. diags Inst E E J 62:957-63 N '24
Effect of wave damping in radio direction-finding. R. L. Smith-Rose. Inst E E J 63: 923-7; Discussion. 927-31 S '25
Radio-acoustic range finding. il Sci Am 133: 124 Ag '25
Radio corporation to exhibit direction finder and tube transmitter. il Marine Eng 30:639 N '25
Radio direction-finding observations on ship and shore transmitting stations. R. L. Smith-Rose. maps Inst E E J 62:701-11 Ag '24
Radio lighthouse. il Radio N 7:778-9+ D '25
Radio research board and direction finding. G. W. O. Howe. Electrician 94:176+ F 13 '25
Revolving short-wave beam system. il chart diag Elec R (Lond) 97:411-12 S 11 '25; Electrician 95:296-7 S 11 '25
Study of wireless wave fronts by directional methods. R. L. Smith-Rose. Engineering 120:377 S 25 '25
Wireless and aeronautics; details of the Marconi ground stations. il Electrician 94:178-9 F 13 '25

See also Compass; Radio beacons; Radio compass; Radio telegraph in aviation

DIRECTIONS, Package. See Package goods—Directions for use

DIRECTORIES
Sources of names of life insurance prospects. Spectator 113:34 O 16 '24

See also Gas industry—Directories; Mailing lists; Manufacturers' directories; Radio broadcasting stations—Directories; Refrigerating engineers—Directories

Bibliography

American directories, 1922-1924. M. E. Jameson. Lib J 49:472-83, 887 My 15, O 15 '24
Classified guide to 1700 annuals, directories, calendars and year books. H. G. T. Cannons, comp. 196p H. W. Wilson co. '23
Directories of social agencies. Russell Sage Foundation Library Bul 72:1-7 '25
Mailing list directory and classified index to trade directories. L. H. Morley and A. C. Kight. 727p McGraw-Hill '24

DIRECTORS. See Corporations—Directors

DIRIGIBLES. See Airships

DISABLED

See also Artificial limbs; Cripples

Rehabilitation

Civilian rehabilitation in Ohio. Monthly Labor R 20:696-7 Mr '25
Civilian rehabilitation work in Wisconsin. Monthly Labor R 19:461-3 Ag '24
Civilian vocational rehabilitation work in Minnesota. Monthly Labor R 21:642-3 S '25
Industrial hospital in New York. H: Woods, jr. Am Ind 24:35 Jl '24
Medical attention in connection with rehabilitation of injured employees. J. A. Parks. U S Bur Labor Statistics Bul 385:91-6 '25
National conference on civilian rehabilitation. Monthly Labor R 18:630-3 Mr '24
Proceedings of the National conference on vocational rehabilitation of civilian disabled, held at the Hotel Hamilton, Washington, D.C., Feb. 4-8, 1924 (Bul. no. 93) 162p U.S. Federal board for vocational education, Washington '24
Rehabilitation of the physically handicapped. R. M. Little. J Ind Hygiene 6:187-92; Discussion. 218-19 S '24
Training and employment of disabled workmen in the Ford plant. Monthly Labor R 17:1163-4 N '23
Vocational rehabilitation. C: H: Saylor. (Bul. 28) 31p Illinois. Board for vocational educ., Springfield '23
What rehabilitation is doing for the injured worker. B. C. Riffel. il Nat Safety N 11:11-12+ Je '25

See also Blind; Soldiers, Disabled—Rehabilitation

DISABLED, Occupations for
Placement work for the tuberculous. A. C. Klein. il Nation's Health 7:319-21+ My '25

See also Blind; Deaf

DISACCHARIDES

See Gentiobiose; Sugar; Sugars

DISARMAMENT
Denmark's attempt at national disarmament. Comm & Fin Chr 119:2004-5 N 1 '24
Discussion of limitation of armaments by Council of League of nations—disarmament treaty and treaty of mutual assistance [text]. Comm & Fin Chr 119:276-8 Jl 19 '24
League orders plan to disarm world and end war—46 nations give assent. Comm & Fin Chr 119:1241 S 13 '24
Plan to end army and navy arouses Danes. Comm & Fin Chr 119:2365 N 22 '24
Possibility of disarmament. H: T. Allen and others. Ann Am Acad 120:65-89 Jl '25
President Coolidge requested by Senate to call second international disarmament conference—United States navy is up to 5-5-3 ratio. Comm & Fin Chr 120:536-7 Ja 31 '25
Second disarmament conference at Washington is suggested by President Coolidge to four powers. Comm & Fin Chr 120:899 F 21 '25
Signing at Geneva of protocols for control of armament and chemical warfare. Comm & Fin Chr 121:534-5 Ag 1 '25

See also Warships—Demolition

DISCOUNT
American discount market. J. Thralls. Econ W n s 29:364-6 Mr 14 '25; Same. Am Ind 25:39-41 Ap '25; Same. Bankers M 110:621-5 Ap '25
Federal reserve board on open market policy and operations. Comm & Fin Chr 118:1613-14 Ap 5 '24
General survey of 1924 in the financial district. Annalist 25:54-6 Ja 5 '25
New York and London as discount markets. H. Withers. Comm & Fin Chr 121:906-7 Ag 22 '25
New York discount market gains on London. J: Oakwood. Annalist 25:867-8 Je 29 '25
Sanctions for discount policy. D. H. Macgregor. Econ J 34:638-43 D '24

See also Acceptances

Rates

Britain's bank rate as a price stabilizer. W. F. Collins. Annalist 26:179+ Ag 14 '25
Decrease in discount rate of Federal reserve bank of New York. Comm & Fin Chr 118:2129 My 3 '24
Federal reserve bank of New York lowers its rediscount rate to 3%. Comm & Fin Chr 119:652 Ag 9 '24
Federal reserve banks and the rate of discount. J. A. Estey. Bankers M 108:532-8 Ap '24
Federal reserve rate should be raised. P. Gourrich. Annalist 26:405, 443+ O 2-9 '25
Federal reserve rediscount rates and the gold supply. G: E. Putman. Am Bankers Assn J 17:104-5 Ag '24; Same. Econ W n s 28:256-8 Ag 23 '24
Power of re-discount rates. H: Templeton. Am Bankers Assn J 17:9-11 Jl '24
Price fixing by the Federal reserve board. T. H. Price. Comm & Fin 13:701 Ap 9 '24; Discussion. 13:795-6, 838 Ap 23-30 '24
Price indices will not dominate reserve policy. E: A. Bradford. Annalist 23:429+ Ap 7 '24
Prosperity through a reduction of the re-discount rate. E. E. Agger. Am Bankers Assn J 16:771-3 Je '24
Rediscount rates raised in New York. Bradstreet's 53:145 F 28 '25
World bank rates; international comparison of discount rates in 1924. Index p 9 Ap '25

DISCOUNT, Employees'
Thin disguise for price-cutting seen in wholesale buying plan; Rochester jobber goes after retail business. F. R. Otte. Sales Management 9:419+ O 3 '25

DISCOUNT, Special
Mooching discounts. Credit M 27:20 Je; 14+ S '25

DISCOUNT, Trade
Basing discounts on monthly instead of yearly volume. Ptr Ink 130:76-7 Mr 26 '25
Cut loose from secret rebates. A. H. Deute. Ptr Ink 129:3-4+ N 20 '24
Dealer who holds out for the jobbing discount. W. G. Caldwell. Sales Management 8:973-4 Je 27 '25
Do quantity discounts pay? Sales Management 8:513-14+, 602+ Ap 4-18 '25
Fair sales practice defined; decision of Supreme court in National biscuit case. Index p 3-4 N '24
Frenzied merchandising. E. B. Weiss. Ptr Ink 132:3-4+ Jl 30 '25
How we cut down losses from bad debts to next to nothing. G: I. Schreiber. Ptr Ink 130:17-20 Ja 22 '25
Large user's discount a problem in electric controller industry. Elec W 85:739-41 Ap 4 '25
National biscuit company's selling plan on trial. Ptr Ink 125:10+ D 20 '23; 126:102 Ja 31 '24

DISCOUNT, Trade—*Continued*
New deal on compensating wholesale distributors. F. D. Bristley. Ptr Ink 129:8+ N 27 '24
Our method of writing dealers who abuse cash discounts. E. B. Weiss. Ptr Ink 129: 129-32 D 4 '24
Report of N.W.D.A. committee on proprietary goods. Oil Paint & Drug Rep 106:40-2 O 1 '24; 108:39-43 O 15 '25
Taking the cash discount. H. F. Baillet. Dom Eng 109:23-4 D 20 '24
What can be done about trade abuses? H. M. Maxwell. System 47:736-7+ Je '25
When a star salesman can drag the retailer down; futility of price and discount appeal. S. B. Sieg. Ptr Ink 128:141+ Ag 21 '24
Why we changed over from flat to quantity discounts. J: C. Wahl. il Sales Management 6:629-30 Mr '24

Tables, calculations, etc.

Discounts used in estimating for the plumber. R. M. Starbuck. Dom Eng 105:526-9+ D 15 '23

DISCOUNT companies
Reports of the three discount houses. Economist 98:139 Ja 26 '24

DISEASES
Rural and urban health: a comparison of past diseases in university students from rural and urban districts. W. P. Shepard and H. S. Diehl. bibliog J Ind Hygiene 7:481-90 N '25

See names of diseases, e.g. Leprosy; Malaria; Tuberculosis; Typhoid fever

DISEASES, Industrial
Anatomical distribution of the occupational cancers. E. L. Kennaway. J Ind Hygiene 7: 69-93 [bibliog. p. 92-3] F '25
Application of law relating to occupational diseases in France, 1921 and 1922. Monthly Labor R 19:203-4 Jl '24
Chemist and his contribution to industrial health. J. G. Cunningham. Nation's Health 7:599-601 S '25; Same. Can Chem & Met 9: 218-20 O '25
Colds work's worst enemy. Iron Tr R 77:436 Ag 20 '25
Compensation for occupational diseases; comparative analysis of national legislations. 76p International labour office, Geneva '25
Five years' sickness and accident experience in the Edison electric illuminating company of Boston. C. O. Sappington. bibliog J Ind Hygiene 6:81-101 Jl '24
Forty-two occupational disease hazards in one industry; the tanning industry. D. K. Minster. J Ind Hygiene 7:299-304 Jl '25
Industrial accidents and diseases in British factories and work-shops in 1924. Econ W n s 30:384-5 S 12 '25
Industrial morbidity statistics; list of diseases and pathologic conditions. J Ind Hygiene 6:357-60 D '24
Occupational disease hazards in the tanning industry. Monthly Labor R 21:596-7 S '25
Occupational diseases in Ohio, 1920 to 1925. Monthly Labor R 21:600 S '25
Report of committee on industrial morbidity statistics. Monthly Labor R 19:1343-7; 20: 397-401 D '24, F '25
Report of the A.C.S. committee on occupational diseases and hazards in chemical trades. bibliog Ind & Eng Chem 16:644-6 Je '24
Sickness experience of American industrial workers. Econ W n s 30:99 Jl 18 '25
Status of the occupational disease question in Ohio, based on official figures; retrospect and prospect. E. R. Hayhurst. J Ind Hygiene 6:259-65 O '24
Workmen's compensation for occupational diseases. P. T. Sherman. Safety Eng 50:30-4+ Jl '25

See also Anthrax; Bakers' itch; Blastomycosis; Caisson disease; Coal miners—Diseases and hygiene; Heart—Diseases; Hygiene, Industrial; Lead poisoning; Lime dermatitis; Lungs—Dust diseases; Mercury poisoning; Miners' nystagmus; Miners' phthisis; Nickel eczema; Paralysis; Poisons, Industrial; Radium—Physiological effect; Shoemakers—Diseases and hygiene; Skin—Diseases

DISHWASHING machines
Sani in-the-sink dishwasher. il Arch & Bldg 55:124 D '23

DISINFECTION and disinfectants
Bactericidal action of quinones and allied compounds. G. T. Morgan and E. A. Cooper. Soc Chem Ind J 43:352-4 D 12 '24
Bactericidal action of some organic compounds of mercury. T. A. Henry, T. M. Sharp and H. C. Brown. Soc Chem Ind J (Chem & Ind) 44:532 My 22 '25
Bactericidal action of tellurium-β-di-ketones. G. T. Morgan, E. A. Cooper and F: J. Corby. Soc Chem Ind J 43:304-6 O 3 '24
Conditions affecting bactericidal power. E. A. Cooper, D. L. Woodhouse and G. E. Forstner. Soc Chem Ind J 44:134-8 Mr 27 '25
Municipal disinfection vs. disinfection by the housewife. Nation's Health 6:617-18 S '24
Radiometric investigation of the germicidal action of ultra-violet radiation. W. W. Coblentz and H. R. Fulton. il U S Bur Stand Sci Pa 495:641-80 '24
Selective bactericidal action. Nation's Health 7:634 S '25
Soap as a vehicle for medicaments and disinfectants. L: W. Bosart. Chem Age 32:89-91 F '24

See also Antiseptics; Cresol; Dyes as antiseptics and disinfectants; Heat as a disinfectant; Hydrocyanic acid; Lysol; Ships—Disinfection; Sterilization

DISINTEGRATORS
Crushing and grinding. S. G. Ure. il diags Soc Chem Ind J (Chem & Ind) 44:349-53 Ap 3 '25

DISK bearings
N.K.A. disk bearings for railway car journals. il diags Ry Age 78:801-2 Mr 21 '25; Ry Mech Eng 99:182-3 Mr '25

DISKS
Flexible-disc standard recommended by S.A.E. Soc Auto Eng J 16:38 Ja '25; Automotive Ind 52:154 Ja 22 '25
Proposed S.A.E. recommended practice for propeller-shaft flexible-discs. diag Soc Auto Eng J 14:48 Ja '24
Tests of vibration in turbine disks. il diags Power 61:193-5 F 3 '25
White iron for grinder disks. G: A. Drysdale. Foundry 52:591-2 Ag 1 '24

DISPERSE systems. See Colloids

DISPERSION
Discussion of rotatory dispersion at meeting of Chemical society. Soc Chem Ind J (Chem & Ind) 43:228-9, 331 F 29, Mr 28 '24
Investigations on the dependence of rotatory power on chemical constitution; some compounds containing the secondary octyl radical linked to oxygen. H. Hunter. Chem Soc J 125:1389-95 Je '24
Investigations on the dependence of rotatory power on chemical constitution; the chemical significance of rotatory dispersion. H. Hunter. Chem Soc J 125:1198-1206 My '24
Magnetic rotary dispersion of certain paramagnetic solutions. R. W. Roberts. Philos Mag 6th ser 49:397-422 F '25
Phenomena of rotation dispersion. T. S. Patterson. Soc Chem Ind J (Chem & Ind) 43:454-7 My 2 '24; Discussion. H. Hunter. 43:539-42 My 23 '24
Refractivity and the molecular phase hypothesis. E. C. C. Baly and R. A. Morton. J Phys Chem 28:659-67 Je '24
Relation between the critical potentials and the indices of refraction of elements and compounds. B. Davis. Phys R 26:232-40 Ag '25
Rotatory dispersion of certain normal alkyl hexahydromandelates. C: E. Wood and M. A. Comley. Chem Soc J 125:2630-46 D '24
Rotatory dispersion of derivatives of tartaric acid; acetyl derivatives. P. C. Austin and J. R. Park. Chem Soc J 127:1926-34 S '25

DISPERSION—*Continued*
Rotatory dispersion of derivatives of tartaric acid; methylene derivatives. P. C. Austin and V: A. Carpenter. Chem Soc J 125: 1939-46 S '24
Rotatory dispersive power of organic compounds; β- and π-sulphonic derivatives of camphor. E. M: Richards and T: M. Lowry. Chem Soc J 127:1503-14 Jl '25
Rotatory dispersive power of organic compounds; borneol, camphor and camphorquinone—the origin of complex and anomalous rotatory dispersion. T: M. Lowry and J: O. Cutter. Chem Soc J 127:604-15 Mr '25
Rotatory dispersive power of organic compounds; halogen-derivatives of camphor; abstract with discussion. T. M. Lowry, J. O. Cutter and H. Burgess. Soc Chem Ind J (Chem & Ind) 44:507-8 My 15 '25
Rotatory dispersive power of organic compounds; halogen derivatives of camphor: optical superposition in the camphor series. J: O. Cutter, H: Burgess and T: M. Lowry. Chem Soc J 127:1260-74 Je '25
Rotatory dispersive power of organic compounds: octyl alcohol and octyl oxalate. T: M. Lowry and E. M. Richards. Chem Soc J 125:1593-7 Ag '24
Rotatory dispersive power of organic compounds; simple dispersion in 1-methyl*cyclo*hexylidene-4-acetic acid. E. M: Richards and T: M. Lowry. Chem Soc J 127:238-40 Ja '25
Rotatory dispersive power of organic compounds; the molecular weight of ethyl tartrate and the origin of anomalous rotatory dispersion in tartaric acid and its derivatives. T: M. Lowry and J: O. Cutter. Chem Soc J 125:1465-70 Jl '24
Rotatory dispersive power of organic compounds; the significance of simple rotatory dispersion—rotatory dispersion of camphorquinone and of sucrose. T: M. Lowry and E. M: Richards. Chem Soc J 125:2511-24 D '24
Some further remarks on optical rotation-dispersion. T. S. Patterson. Soc Chem Ind J (Chem & Ind) 43:614-16 Je 13 '24

DISPLAY, Window. See Show windows

DISPLAY cabinets. See Counter display cabinets

DISPLAY of merchandize
If you can't get store display for that bulky product. E. B. Weiss. il Ptr Ink M 10:52+ Je '25

DISSOCIATION
Dissociation constant of boric acid. E. B. R. Prideaux and A. T: Ward. Chem Soc J 125: 69-71 Ja '24
Dissociation constants of phosphoric acid. E. B. R. Prideaux and A. T: Ward. Chem Soc J 125:423-6 F '24
Dissociation constants of selenious acid. J. S. Willcox and E. B. R. Prideaux. Chem Soc J 127:1543-6 Jl '25
Dissociation into free radicals of substituted dixanthyls; dibenzyl- and dibutyldixanthyl. J. B. Conant and A. W. Sloan. Am Chem Soc J 47:572-80 F '25
Dissociation of certain oxalato-salts. G: J. Burrows and G: Walker. Chem Soc J 123: 2738-42 N '23
Dissociation of hydrogen and nitrogen by excited mercury atoms. O. S. Duffendack and K. T. Compton. Phys R 23:583-92 My '24
Dissociation pressures of hydrated double selenates. J: Ferguson. Chem Soc J 127: 2096-2100 S '25
Dissociation pressures of hydrated double sulphates; various double sulphates of the type $M''SO_4,M'_2SO_4,6H_2O$. R. M. Caven and J: Ferguson. Chem Soc J 125:1307-12 Je '24
Electrometric titration of chromic acid using the hydrogen electrode, and the oxygen electrode. H. T. S. Britton. Chem Soc J 125: 1572-82 Ag '24
Impact effects in nitrogen and nitric oxide. C. B. Bazzoni and A. T. Waldie. bibliog J Fr Inst 197:57-72 Ja '24
Influence of valency direction on the dissociation constants of dibasic acids. C. H. Spiers and J. F. Thorpe. Chem Soc J 127: 538-44 Mr '25
Ionization, excitation, and dissociation of gases. A. L. Hughes. Philos Mag 6th ser 48:56-64 Jl '24
Mechanism of the process of dissociation in solution. C. J. Brockman. Soc Chem Ind J (Chem & Ind) 44:501-2 My 15 '25
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; bromocresol green. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:226-9 Ja '25
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; 1-naphthol-2-sodium sulfonate indophenol. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:2232-6 Ag '25
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; the methods. W. C. Holmes. Am Chem Soc J 46:627-31 Mr '24
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; thymol blue. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:221-6 Ja '25

See also Hydrolysis

DISSOCIATION, Electrolytic. See Ionization, Electrolytic

DISSOCIATION, Heat of
Heat of dissociation of calcium carbonate and the entropy of carbon dioxide. H. L. J. Bäckström. Am Chem Soc J 47:2443-9 O '25

DISSTON, Henry
Idle machines earn no money said Henry Disston; interview. System 47:176-7 F '25

DISTANCES

Tables, calculations, etc.

Table of distances between ports via the shortest navigable routes as determined by the Hydrographic office, United States Navy department. 288p U.S. Hydrographic office, Washington '23

DISTILLATION
Calculation of points in the ethyl alcohol-water distillation curve. E. Öman and A. Gunnelius. Ind & Eng Chem 17:964 S '25
Commercial distillation of fatty acids and wool grease. G. F. Pickering. Soc Chem Ind J 44:424-30 Ag 14 '25
Concentrating dilute nitric acid. C. D. Carpenter and J. A. Babor. bibliog diags Am Inst Chem Eng Trans v 16 pt 1:111-48 '24; Abstract. Chem & Met Eng 31:260-2 Ag 18 '24
Distillation et rectification; mélange de benzène, toluène et métaxylène. L. Gay. Chimie & Ind 10:811-28, 1026-42 N-D '23
Distillation of acetate of lime. E. G. R. Ardagh and others. diag Ind & Eng Chem 16:1133-9 N '24
Distillation principles. C. Elliott. 166p E. Benn, ltd., London; Van Nostrand '25
Effect of thermometric lag in Engler distillation. W. R. Ormandy and E. C. Craven. diags Inst Pet Tech J 10:342-55 Je '24
Fractionation of completely miscible liquids. E. J. Winter. diags Chem & Met Eng 30:18-20 Ja 7 '24
Graphical rectifying column calculations. E. V. Murphree. Ind & Eng Chem 17:960-4 S '25
Heat conservation in the wood-distillation industry; patent. Chem Age 32:358 Ag '24
Multiple-effect distillation of ethyl alcohol. G: Calingaert. il diags Chem & Met Eng 32: 362-3 Mr '25
Vapor composition relationships in the systems phenol—water and phenol—cresol. F. H. Rhodes, J. H. Wells and G. W. Murray. diag Ind & Eng Chem 17:1199-1201 N '25

See also Alcohol; Coal distillation; Coal tar; Fermentation; Leather distillation; Petroleum distillation; Petroleum refining; Tar distillation plants; Wood distillation

DISTILLATION apparatus
Automatic fractionating columns. W: A. Peters, jr. diags Am Inst Chem Eng Trans v 15 pt 1:171-5 '23; Same. Ind & Eng Chem 15:734-5 Jl '23
Automatic temperature control in fractionating towers. W. C. Begeebing. diags Nat Pet N 16:67+ S 3 '24
Causes of failure in the tubes of steam distillation apparatus. Neumann and Zollner. Engineer 139:sup61-2 Ap 24 '25
Concentration by fractional condensation. J: L. Young. diag Ind & Eng Chem 17:984 S '25
Condenser for distilling oils of wide boiling range. H. N. Calderwood, jr. diag Ind & Eng Chem 16:576-7 Je '24
Design of column stills with continuous decanters. G. H. Mains. diag Chem & Met Eng 31:307-11 Ag 25 '24; Discussion. 31: 1012-13 D 29 '24
Developing modern equipment for cracking petroleum. R. H. Brownlee. il diags Chem & Met Eng 31:812-17 N 24 '24
Distilling flask for corrosive liquids. F. E. Brown. diag Ind & Eng Chem 17:706 Jl '25
Doherty gets patent on radically new refining method. diags Nat Pet N 16:37-8 Ja 23 '24
Efficiency of fractionating columns; test of coke packed rectifying column. G. Calingaert and F. E. Huggins, jr. Ind & Eng Chem 16:584-6 Je '24
Fabricating aluminum stills. F. B. Hill. il Chem & Met Eng 29:921-2 N 19 '23
Fractionating column with moving parts. J. E. Myers and W: J. Jones. diag Chem Soc J 127:4-8 Ja '25
Glass rings—a new filling material for towers. F. C. Zeisberg. Am Inst Chem Eng Trans v 14:321-5; Discussion. 325-7 '21-'22
Graphical design of fractionating columns. W. L. McCabe and E. W. Thiele. diags Ind & Eng Chem 17:605-11 Je '25
Improved Fischer vacuum fractionator. L: Sattler. diag Ind & Eng Chem 17:583 Je '25
Making the refinery show a profit by reducing operating costs. P. Truesdell. Nat Pet N 15:23-4+ D 26 '23
Receiving apparatus for fractional distillation at low pressures. W. F. Seyer. diag plans Am Chem Soc J 46:1209-10 My '24
Rectifying column calculations with particular reference to *N* component mixtures. E. V. Murphree. Ind & Eng Chem 17:747-50 Jl '25
Simple electric water still. R. W. Gelbach. il Ind & Eng Chem 17:1050 O '25
Special vacuum distillation flask. R. L. Shriner. diag Ind & Eng Chem 17:569 Je '25
Stoker-fired stills. S. A. Coffing. il diag Chem & Met Eng 32:63-4 Ja 12 '25
Tyler electric silica still. J. C. Olsen, W. Lindenthal and I. Sherman. il diags Am Inst Chem Eng Trans v 16 pt 1:101-10 '24

DISTILLED water. See Water, Distilled

DISTILLERIES
Distillery waste liquids and their purification. R. D. Littlefield. diags plans Soc Chem Ind J (Chem & Ind) 44:860-7 Ag 28 '25

DISTILLING industries
Distillery companies' profits. Economist 99: 603-4 O 18 '24

DISTRIBUTION (business problem). See Marketing

DISTRIBUTION (economics)
Economic problems of industrial organization. F: C. Mills. Management & Adm 7:423-6 Ap '24

DISTRIBUTION, Electric. See Electric distribution

DISTRIBUTION of gas. See Gas distribution

DISTRIBUTION of water. See Water distribution

DISTRICTS, Metropolitan. See Metropolitan districts

DISTYRYLPYRIDINE
2:6-distyrylpyridine and its derivatives. B. D. Shaw. Chem Soc J 125:2363-5 N '24

DISULFOXIDES
Constitution of disulfoxides. H: Gilman, L. E. Smith and H. H. Parker. Am Chem Soc J 47:851-60 Mr '25
Constitution of disulphoxides. S: Smiles, D: T. Gibson and C. J. Miller. Chem Soc J 125:176-83; 127:224-33 Ja '24, Ja '25
Derivatives of aniline disulphoxide. C: M. Bere and S: Smiles. Chem Soc J 125:2359-63 N '24
Syntheses of disulphoxides. D: T. Gibson, C. J. Miller and S: Smiles. Chem Soc J 127: 1821-4 Ag '25

DITCHES
Efficient ditching with dynamite. Eng & Contr (W W) 63:551 Mr 11 '25
Recent developments in use of dynamite in ditching operations. F. J. Byrne. Munic & Co Eng 67:52 Jl '24
See also Excavation; Trenches

DITHIOANILINE
Action of lead monoxide (litharge) on *o,o*¹-dithio-aniline. H. H. Hodgson. Soc Dyers & Col J 41:99-102 Mr '25
Mechanism of aniline thionation with observations on the therapeutical importance of the dithioanilines. H. H. Hodgson. Soc Dyers & Col J 40:330-7 O '24

DITHIOBENZOYL
Interaction of primary amines and 2-dithiobenzoyl. E. W. McClelland and J: Longwell. Chem Soc J 123:3310-15 D '23

DITHIOCARBAMATES
Analysis of organic rubber vulcanising accelerators; derivatives of dithiocarbamic acid. T. Callan and N. Strafford. Soc Chem Ind J 43:7-8 Ja 4 '24

DITHIOETHYLENE glycol
Synthesis of cyclic polysulphides; condensation of dithioethylene glycol with benzylidene chloride. P. C. Ray. Chem Soc J 125:1141-4 My '24

DITHIONATES
Thermal decomposition of sodium, barium and cadmium dithionates in water solution. J. Cornog and W. E. Henderson. Am Chem Soc J 46:1978-80 S '24

DIVARIN
Lichen products—divarin; abstract. A. Sonn and B. Scheffler. Soc Dyers & Col J 40:381 N '24

DIVERSIFIED farming
Irrigating the desert of wheat. J: P. Dennis. Comm & Fin 13:611-12 Mr 26 '24
Snook O'Brien's model diversified electrical farm. J: W. Otterson. il J Elec 54:591-4 Je 15 '25

DIVIDENDS
Average dollar dividends paid on industrial stock, 1900-1924. Survey of Cur Business 44:29 Ap '25
Dividend record of gas utilities. W. G. Maas. J Land & Pub Util Econ 1:372-4 Jl '25
Dividends declared and awaiting payment. Published in weekly numbers of Annalist; Commercial and financial chronicle
Method for payment of dividends. C. K. Cooper. Ry R 77:628-9 O 24 '25
Payment of dividends before restoring impaired capital. B. T. Davidson. J Account 37:143-9 F '24
Principles governing the amounts available for distribution of dividends. C: B. Couchman. J Account 38:81-97 Ag '24
Principles which should govern the determination of capital and the amounts available for distribution of dividends in the case of corporations, with special reference to the system of capital stocks without a par value. S. Gundelfinger. J Account 37:321-48, 420-31; 38:31-41 My-Jl '24
Protection of working capital; capital requirements and control. J. H. Bliss. Management & Adm 7:653-8 Je '24; Same. Paper Tr J 79:57-60+ Ag 28 '24
United States cast iron pipe and foundry company dividend decision. Moody's Inv Serv 16:391 O 23 '24

DIVIDENDS—*Continued*
The why of stock dividends. W. J. Matherly. Univ J of Business 2:72-80 D '23

DIVIDING (machine work)
Application of continued fractions to dividing-head problems. W. Stainsby. Am Mach 63:25-6 Jl 2 '25; Discussion. C: Kugler. 63: 668-9 O 22 '25
Making a dividing head. D. Freuler. il Am Mach 61:247 Ag 7 '24

DIVIDING machines
Ruling 15,000 lines per inch; machine for ruling gratings and how it was built. F. A. Stanley. il diags Am Mach 60:161-6 Ja 31 '24; Abstract. Sci Am 130:270 Ap '24
Société génevoise circular dividing machine. il Am Mach 62:216 Ja 29 '25; Mach 31:490 F '25; Iron Age 115:340 Ja 29 '25

DIVING, Submarine
Apparatus for deep sea diving. il diags Marine Eng 30:20 Ja '25
Helium air for submarine divers. il Sci Am 133:52 Jl '25
Helium-oxygen mixtures for compressed air work. R. R. Sayers and W. P. Yant. Eng N 95:586 O 8 '25
Respirator and self-contained diving apparatus; Empire exhibition. il Engineering 118: 149 Jl 25 '24
Scaphandre métallique pour plongées en eau profonde, système Neufeldt et Kuhnke. diags Génie Civil 85:606 D 27 '24
Taucherarbeiten in 160 m tiefe. il diags Zeit Ver Deutsch Ing 68:1085-6 O 11 '24

DIVINYL sulfide
Hydrolysis of ββ′-dichlorodiethyl sulphide and action of hydrogen halides on divinyl sulphide. S. H. Bales and S. A. Nickelson. Chem Soc J 123:2486-9 O '23

DIVISION of words. See Word division

DIX, Henry A., & son
Business turned over to employes—and it works. H. Brucker. Comm & Fin 13:527 Mr 12 '24
Dix transfer. T. Hultgren. Univ J of Business 2:406-13 S '24

DIXANTHYLS
Dissociation into free radicals of substituted dixanthyls; dibenzyl- and dibutyldixanthyl. J. B. Conant and A. W. Sloan. Am Chem Soc J 47:572-80 F '25

DIXIE highway
Good work on Dixie highway. il diag Pub Works 54:368-9 N '23

DOBBIE, James Johnston, 1852-1924
Sketch. por Chem Soc J 125:2681-90 D '24

DOCKS
Der ausbau der Howaldtswerke, Kiel, in den letzten jahren. B. Meyer. il diags plan Zeit Ver Deutsch Ing 69:691-5 My 16 '25
British port facilities; Chamber of shipping report. Engineer 137:603 My 30 '24
Dock extensions at Southampton. diag plan Engineer 138:458-60 O 24 '24; Same cond. Eng N 93:742 N 6 '24; Same cond. Eng & Contr (Ry) 63:559-62 Mr 18 '25
Docks at New Pacific port. il Marine R 54: 15 Ja '24
Extension of the port of Calcutta. il diags map Engineering 117:37-40, pl 2 Ja 11 '24
Interesting dock construction in Copenhagen. E. L. Heidenreich. il diag Concrete 27:47 Ag '25
Modern dock equipment. H. J. Deane. Engineering 119:664; Discussion. 664-5 My 29 '25; Abstracts. Engineer 139:571 My 22 '25; Elec R (Lond) 96:915 Je 5 '25
New Gladstone dock system at Liverpool. diags plan Engineering 118:47-9, 54, pl 8 Jl 11 '24
Pembroke dockyard. Engineering 120:301-2 S 4 '25
Pennsylvania builds large car dumper in record time. il diags plan Ry Age 79:839-43 N 7 '25
Port of London is wisely managed. V. Delport. il map Marine R 55:375-9 O '25
Southampton docks electricity supply; abstracts. H. Wauchope. Engineer 140:270 S 11 '25; Elec R (Lond) 97:471-3 S 18 '25
Work starts on port development at Mobile, Alabama. A. C. Davis. diag plan Eng N 94:1024-5 Je 18 '25

See also Bulkheads; Cradles (docks); Dry docks; Harbors; Terminals; Wharves

DOCUMENTS, Photography of. See Photography of documents

DODGE brothers, inc.
Bond market. P. S. Krecker. Comm & Fin 14:729 Ap 15 '25
Confidence in future of industry shown by Dodge purchase. N. G. Shidle. il Automotive Ind 52:647-50 Ap 9 '25
Dodge company sold; merger may follow purchase by Dillon, Read & co. Automotive Ind 52:635+ Ap 2 '25
Fifty millions for good will. Comm & Fin 14: 641 Ap 8 '25
How Dodge brothers has kept going profitably at top speed. N. G. Shidle. Automotive Ind 51:629-32 O 9 '24
Man who runs Dodge—and how he does it. B. C. Forbes. il Forbes 17:9-11+ N 1 '25

DODGE Brothers' motor oil
Dodge brothers tell why they sell motor oil. R. B. Stafford. Nat Pet N 16:21-2 F 20 '24

DODGERS. See Handbills

DOGFISH liver oil
Vitamin A potency of dogfish liver oil. A. D. Holmes and M. G. Pigott. Ind & Eng Chem 17:310-11 Mr '25

DOLLAR, Robert, 1844-
Robert Dollar—mariner and trader. V. G. Iden. por Marine Eng 29:517-19 S '24

DOLLS
Advertising
Effanbee campaign gets sales by helping parents buy toys. C. B. Larrabee. Ptr Ink 125:17-20 N 8 '23

DOLOMITE
Calcined dolomite as a substitute for lime in the recovery of gold and silver by the cyanide process. E. S. Leaver, C. W. Davis and J. A. Woolf. U S Bur Mines Rep of Invest 2648:1-7 O '24 (typew)
Crystal structure of dolomite. R. W. G. Wyckoff and H. E. Merwin. diags Am J Sci 5th ser 8:447-61 D '24
Dead burning of dolomite. J. T: Robson and J. R. Withrow. il Am Cer Soc J 7:61-73, 141-50, 207-21, 300-11, 397-410 Ja-My '24
Dead burning of dolomite. J. T: Robson and others. Ohio State U Eng Exp Sta Bul 28: 1-70 '24
Dolomite as refractory material. T. N. Leslie. Eng & Min J 120:177 Ag 1 '25
Making of dolomite brick and a study of their properties. A. I. Andrews, G. A. Bole and J. R. Withrow. il diag Am Cer Soc J 8: 84-100, 171-90 F-Mr '25
Refractory session of A.I.M.M.E. discusses dolomite clinker. Iron Age 116:1112-13 O 22 '25
Studies on the dolomite system. H. L. J. Bäckström. Chem Soc J 125:430-4 F '24
Use of dolomite in the cyanide process. Eng & Min J 119:442 Mr 14 '25
Utilization of dolomite for refractories. G. A. Bole. U S Bur Mines Rep of Invest 2627:1-11 Jl '24 (typew)

See also Galena dolomite

DOMES
Analytical solution of masonry domes. D: C. Coyle. diags Am Soc C E Pro 50:401-16 Ap '24; Discussion. 50:874-80, 1306-8 Ag, O '24
Le calcul des coupoles et des réservoirs. P. Caufourier. Génie Civil 86:165-6 F 14 '25
Covering dome with sheet copper. W: Neubecker. diags Sheet Metal Worker 16:614-15+, 643-9 S 25-O 9 '25
Domed roof construction; First church of Christ, scientist, University City, Mo. il diags plans Am Arch 126:635-40 D 31 '24
Zinc used on dome-shaped roof of St Mary's Ukrainian Greek Catholic church at McKees Rocks, Pa. il Sheet Metal Worker 15: 315 My 23 '24

DOMESTIC appliances
Home conveniences. F: W. Ives. 219p Harper '24

See also Dishwashing machines; Electric apparatus and appliances, Domestic; Electric cooking; Gas appliances, Domestic; Ironing machines; Kitchen utensils; Washing machines

DOMESTIC architecture. See Architecture, Domestic

DOMESTIC engineering
See Heating; Plumbing; Sanitary engineering; Ventilation

DOMESTIC finance
See Budget, Household

DOMESTIC workers. See Servants

DOMINION land surveyors, Association of. See Association of Dominion land surveyors

DONNELLY garment company
She found a fortune in a business the experts overlooked; Donnelly garment company. E. Whitmore. il Sales Management 6:809-10+ Ap '24

DOOR hanging
Estimating the labor of hanging doors. I. P. Hicks. Bldg Age 46:179-80 N '24

DOORS
Exterior door details. diags Bldg Age 47:135 My '25
Improved exit device. il Arch & Bldg 56:25 Mr '24
Interior door details. diags Bldg Age 47:138 Je '25
New sizes of sash, door and millwork. Arch & Bldg 57:45 My '25
Strength of doors. diags Am Arch 127:517 Je 3 '25
Types of doors for cold storage; abstract. S. P. Stevenson. Refrig W 59:28 Ag '24

See also Doorways; Storm doors

Advertising

Opportunity knocks at the door—advertising sells it; a five-year drive by the Wheeler, Osgood co. Ptr Ink 126:17-19 Mr 20 '24

DOORS, Revolving

Advertising

How long does it pay to follow up inquiries? Van Kannel revolving door co. R. L. Blanchard. Ptr Ink M 10:50+ My '25

DOORS, Rolling
Largest rolling door installed for Kirkman & son at their Brooklyn plant. il Eng & Contr (Bldgs) 63:895 Ap 24 '25
Rolling steel door in industry. M. L. Cornell. il Ind Management 70:12-15 Jl '25; Same. Eng & Contr (Bldgs) 64:479-82 Ag 26 '25

DOORWAYS
Details of early American architecture; a series of measured drawings. G: H. Higgins. il diags Arch Forum 40:111-14 Mr '24
Doorways of Penitente land. B. R. Gaastra. il Arch Rec 57:186-8 F '25
Fifteenth century doorway, from the Ducal Palace, Urbino. il diags Arch Forum 40: 217-20 My '24
Forum studies of European precedents; baroque doorways in Genoa. il Arch Forum 41:300a-h D '24
Main doorway, church of Santa Maria del Pino, Barcelona. il Am Arch 126:front D 3 '24
Portals, doorways and windows of France. G: L. Dahl. 209p Architectural book pub. co., New York '25

See also Lintels

DOPE. See Airplane dope

DORMAN, Long and company, limited
Satisfactory results of difficult year. Economist 99:978-9 D 13 '24

DORMITORIES
Le Baron R. Briggs Hall, Radcliffe college, Cambridge, Massachusetts; views and plans. Arch Rec 57:55-60 Ja '25
Dormitory building, asylum of St Vincent de Paul, Tarrytown, N.Y.; views and plan. Am Arch 127:pl 9-10 Ja 14 '25
Johnson Hall, Columbia university, New York city. Arch & Bldg 57:35-6, pl 87-8 Ap '25
School dormitory built by students. il plans Bldg Age 47:144-6 Je '25

DORR apparatus
Continuous grinding in the ceramic industry. il Chem & Met Eng 30:783-4 My 19 '24
Dorr saveall. M. C. Fleming. diag Tech Assn Pa ser 7:62 Je '24; Same. Paper Tr J 78: 199 Ap 10 '24
Progress in the application of continuous hydrometallurgical methods in the chemical industry. J: V. N. Dorr. diags Am Inst Chem Eng Trans v 16 pt 1:185-201 '24; Excerpts. Chem & Met Eng 31:463-4 S 22 '24

DOTY, John Williams
President of the Foundation company. por Forbes 16:583-6+ Ag 1 '25

DOUBLE bond
Constitution of natural unsaturated fatty acids; a new method of ascertaining the position of the ethylenic linkage in acids of the oleic series. E. F. Armstrong and T. P. Hilditch. Soc Chem Ind J 44:43-7 Ja 30 '25
The double bond. W. H. Carothers. Am Chem Soc J 46:2226-36 O '24
Parachor and chemical constitution. S: Sugden and others. bibliog Chem Soc J 127:1525-40, 1868-74 Jl-Ag '25; Abstract (pt 1). Soc Chem Ind J (Chem & Ind) 44:508-9 My 15 '25

DOUBLE-decking of streets. See Streets—Double-decking

DOUBLE layer. See Electric double layer

DOUCIL
Doucil—a new base exchanging silicate. J. G. Vail. Chem Age 32:489-92 D '24
New base exchanging silicate for water softening. Power 61:551 Ap 7 '25
Recent experience with doucil as a water-softening material. T. P. Hilditch and H. J. Wheaton. Soc Chem Ind J (Chem & Ind) 44: 885-7 S 4 '25
Water-softening by means of doucil. T. P. Hilditch and H. J. Wheaton. Engineering 117:287-8 F 29 '24; Same cond. Engineer 137: 234 F 29 '24; Discussion. Engineering 117: 267-8 F 29 '24; Engineer 137:234 F 29 '24

DOUGLAS, William Lewis, 1845-1924
Conversations with the founder of the W. L. Douglas shoe company. H. L. Tinkham. System 48:428-9 O '25
William L. Douglas—a manysided advertising pioneer. Ptr Ink 128:33-4 S 25 '24
W. L. Douglas set aside many traditions in marketing shoes. R. W. Johnson. Sales Management 7:1590+ O '24

DOUGLAS fir
Composition of the oleoresin of Douglas fir. H. K. Benson and D. F. McCarthy. Ind & Eng Chem 17:193-4 F '25

DOUGLASTON, Long Island
Conservation of a relic of colonial days; house of E. N. Wicht, Douglaston, L.I., N.Y. il plans Am Arch 126:285-92 S 24 '24

DOW chemical company
Dow chemical company. il Ind & Eng Chem 17:983-4 S '25

DOWEL pins
Dowel pins hold pattern parts. W. C. Ewalt. diags Foundry 52:988-9 D 15 '24

DOWNS, Lawrence A., 1872-
President of Central of Georgia. por Ry Age 76:245 Ja 19 '24

DOXFORD engines
Three-cylinder 2,100 horsepower Doxford engine. il Marine Eng 29:343-4 Je '24

DRAFT
Control and automatic regulation of chimney draught; abstracts. A. Nerrière. diags Gas J (Lond) 171:280-1 Jl 29 '25; Génie Civil 87: 19 Jl 4 '25

DRAFT—*Continued*
New fire controlling system for power plants. diag Cassier's Ind Management 12:166+ F '25
Power plant management. R. June. Blast F & Steel Pl 12:134-6 F '24
Significance of drafts in down-draft, coal-fired kilns. R. A. Sherman, R. F. Lunger and W. E. Rice. il diags Am Cer Soc J 7: 255-70 Ap '24
Stack draft calculations. P. J. Fogarty. charts Gas Age 55:217-18 F 14 '25
To regulate fuel expense, control draft. J. T. Beard. Power Pl Eng 28:331-4 Mr 15 '24; Discussion. C: E. Colborn. 28:448 Ap 15 '24

See also Chimneys; Combustion; Dampers; Fans, Mechanical; Firing; Mechanical draft; Ventilation

DRAFT, Mechanical. See Mechanical draft

DRAFT gages
American Schaeffer & Budenberg multiple draft gage. il Power 61:156 Ja 27 '25
Heating takes one step nearer to an exact science; recognition of the influence of draft in the ultimate results of heating boilers. Y. Adams. il Sanitary & Heat Eng 103:400-1, 432-3 Je 12-26 '25
New Republic gages to indicate and record draft. il diag Power 58:809-10 N 20 '23
Republic multiple draft indicator. il Power 62: 505 S 29 '25

DRAFT gears
A.R.A. report on couplers and draft gears. Ry Age 78:1585 Je 20 '25; Ry R 76:1180 Je 20 '25; Ry Mech Eng 99:441-2 Jl '25
Bradford friction draft gear for high capacity cars. diags Ry Age 76:1618 Je 16 '24
Car truck and draft gear maintenance. E. W. Hartough. 228p Simmons-Boardman '25
Hall multiple plate friction draft gear. il Ry R 74:1148-9 Je 14 '24
Making cushions for friction draft-gear. il Am Mach 62:1002-3 Je 25 '25
Sessions-Standard new type L draft gear. il Ry Age 78:1475-6 Je 13 '25
Walker improved friction draft gear. diag Ry Age 76:1607 Je 16 '24
Waugh improved draft gears for freight cars. il Ry Age 78:1473-4 Je 13 '25; Ry Mech Eng 99:593 S '25

DRAFT tubes
Power developments on St Maurice river. L. H. Burpee. il Can Eng 46:556 My 27 '24
Rational form of draft tube for water-turbines. A. Melovich. diags Engineering 118: 153 Ag 1 '24
Steel draft-tube liners for turbines. E. A. Crellin. il Elec W 84:1161-2 N 29 '24
Steel draft-tube liners used as concrete forms. il Eng N 95:264 Ag 13 '25

Testing

Comparative tests on experimental draft-tubes. C. M. Allen and I. A. Winter. il diags plan Am Soc C E Pro 49:1813-45 N '23; Abstracts. Mech Eng 46:153-4 Mr '24; Power 59:268 F 12 '24; Discussion. Am Soc C E Pro 50:345-50, 508-25, 646-52 Mr-My '24

DRAFTING room management
Better methods in the drafting room. J: Flodin. Ind Management 68:293-6 N '24
Borrowed from the railroad. A. G. Monks. il Factory 34:769+ My '25
Drafting room management. O. Frohman. Ind Management 67:8 Ja '24
Modern drawing office: its place in the scheme of gas-works management. J. E. Ledingham. Gas J (Lond) 170:54-5; Discussion. 55-6 Ap 1 '25
Practical drafting-room system. I. B. Black. Mach 30:605-7, 671-3 Ap-My '24
Putting the drafting room on a production basis. W. E. Irish. Ind Management 68: 121-6 Ag '24

DRAFTING room practice
Celluloid as a substitute for tracing cloth. Elec W 86:320 Ag 15 '25; Same. Eng & Contr (W W) 64:606 S 9 '25
Dimensions for drawings. diag Am Mach 62: 643-4 Ap 23 '25
Drafting room practice. H. D. Way. Eng & Contr (Bldgs) 64:228-30 Jl 22 '25
Drawing office practice. H. P. Ward. 148p Pitman '24
Drawing pointers. H. B. Knudsen. diags Sheet Metal Worker 15:647-8 S 12 '24
Finish marks on drawings. A. A. Dowd. diags Am Mach 60:667 My 1 '24
Helps for the draftsman. R. R. Robinson. diags Am Mach 61:512 S 25 '24
How to estimate machine shop costs. A. A. Dowd. diags Am Mach 62:617-20 Ap 16 '25
Labor-saving method of producing drawings and specifications. L. H. Georger. diags plan Mach 30:465-6 F '24
Method of indicating tolerance limits on drawings. Mech Eng 47:302, 513 Ap, Je '25
Poorly dimensioned drawings. A. A. Dowd. diags Am Mach 60:300-1 F 21 '24; Discussion. 60:555, 598-9, 897 Ap 10-17, Je 12 '24
Positioning details on drawings. E: Heller. diags Mach 30:863 Jl '24
Restoring water soaked drawings. H. N. Clendening. diag Eng & Contr (G C) 64:650 S 16 '25
Rough and ready drafting. C: F. Goldthwait. il Textile World 67:75+ Ja 3 '25
Saving time on the drawing board. C. L. Hall. Am Mach 62:855 My 28 '25
Scheduling and progress-recording of drawings. I. Hoffman. Mach 30:296-7 D '23
Six opinions on dimensioning drawings. J. A. Long and others. diags Am Mach 63: 259-62 Ag 13 '25
Some elements of drafting-room practice that may be standardized. F. W. Ming. diags Mech Eng 47:346-8 My '25
Specifications for reduced drawings. C. L. B. Anderson. Eng N 95:191-2 Jl 30 '25
Symbols in the drafting room. R. W. Shelmire. Eng & Contr (Bldgs) 61:481 F 27 '24
System for making changes in drawings. H. A. Freeman. Mach 30:773 Je '24
System for recording changes in design. H. K. Keever. Mach 31:819-20 Je '25
Tool engineering. A. A. Dowd and F. W. Curtis. Am Mach 60:443-5, 463-5, 591-3 Mr 20-Ap 17 '24
Working drawings. B. Moore. diags Elec J 21:483-6 O '24

See also Drawing instruments; Machinery—Design

DRAFTING rooms
Modern drafting rooms; illustrations. Am Mach 63:263, 311, 658 Ag 13-20, O 22 '25

Lighting

Electric lighting in a drawing-office. il diag plan Engineer 138:461 O 24 '24

DRAFTS
Drafts for Ecuadorian clients. Am Ind 25:42 Ag '24
Notice of dishonor unnecessary as to drafts against no funds. Bankers M 109:25-7 Jl '24
Outline of exchange procedure. F. L. Beach. Burroughs Clearing House 9:12-14+ O '24
Protesting drafts in Japan, Dutch East Indies, Samoa and Tahiti. U S Bur For & Dom Com Trade Information Bul 354:1-15 '25
Protesting drafts in Spain, Portugal, and Italy. A. J. Wolfe, comp. U S Bur For & Dom Com Trade Information Bul 189:1-23 '24
Protesting drafts in western and northern Europe. A. J. Wolfe, comp. U S Bur For & Dom Com Trade Information Bul 182:1-18 '24

DRAFTSMEN
Training draftsmen and patternmakers; outline of courses given at the Worcester boys trade school. il diag Mach 30:787-9 Je '24

DRAGLINES. See Excavating machinery

DRAIN tile
Cradle for drain tile in quicksand. A. Griffin. il Eng N 92:371-2 F 28 '24
Drain tile costs and farm drainage. J. W. Dappert. Eng N 94:152 Ja 22 '25

DRAIN tile—*Continued*
Fowler's mole-tile drainage system. il Engineering 120:529 O 23 '25
Hints on laying drain tile. C. G. Elliott. Eng & Contr (WW) 62:1055-6 N 12 '24
Laboratory experiments in the development of a plant drier. W. E. Barrett. diags Am Cer Soc J 8:239-42 Ap '25
Making drain tile resist alkali and peat soil. il Concrete 27:21-2 Ag '25
Protection of concrete against alkali; water-gas and coal tars and paraffin treatments. E. C. E. Lord. Pub Roads 5:23-5 My '24; Same. Concrete 25:47-9 Ag '24
Reconstruction of old ditches into tile drains. J. W. Dappert. Eng & Contr (W W) 61: 803-4 Ap 9 '24
Report of committee C-6 on drain tile. Am Soc T M Pro 24 pt 1:391-6 '24
Segment-block tile drain construction. W. A. Olson. Munic Eng 67:101-2 Mr '24
Tile drains collect water for small city supply. diags plan Eng N 91:854-5 N 22 '23

Bibliography

Bibliography relating to soil alkalies. F. V. King, G. Ervin and O. L. Evans. U S Agric Bul 1314:1-40 '25

Manufacture

Curing conditions of concrete drain tile; a factor of resistance to sulfate waters. D. G. Miller. il Concrete 24:235-8 Je '24; Same cond. Eng & Contr (W W) 62:361-3 Ag 13 '24; Same. Pub Roads 5:12-13 Je '24
Making drain tile at Haviland. il Brick & Clay Rec 65:171-2 Ag 5 '24
Making tile from deep, pebbly clay. il Brick & Clay Rec 64:953-5 Je 24 '24

Prices

Prices of drain tile in Illinois—1893-1924. Eng N 94:175 Ja 22 '25

Specifications

Tentative standard specifications for concrete drain tile. diags Am Concrete Inst Pro 20:678-85 '24

Testing

Tests on concrete drain tile. il Eng & Contr (W W) 64:615-16 S 9 '25

DRAINAGE
Aesthetic treatment of drainage spoil banks. M. C. Taylor. Munic & Co Eng 68:138-9 Mr '25
Applying efficient machinery to soil drainage and irrigation. R. Brennan. il Dun's Int R 45:53-5 Jl '25
Big drainage work at New Orleans. Manuf Rec 88:73-4 O 29 '25
Calumet drainage ditch reverses flow of river. R. D. Hammons. il diags Eng N 94:432-4 Mr 12 '25
Clearing drainage ditch with dynamite. H. C. McClure. Pub Works 56:192-3 My '25
Deep concrete drain pipe. M. E. Chamberlin. il diag Eng & Contr (W W) 61:592-4 Mr 12 '24
Depth and spacing of tile drains for farm lands. E. G. Minder. Eng N 92:312-13 F 21 '24
Double-inlet drowned drainage pumps. il diags Engineer 137:52 Ja 11 '24
Drainage of California stadium playing field. W. W. Weir. il plan Eng N 92:714-16 Ap 24 '24
Drainage reclaims waterlogged land on old project. H. L. Hancock. il map Eng N 95: 272-3 Ag 13 '25
Drainage tunnels overcome great landslides on O.W.R. & N. il diags map Ry Age 77: 975-8 N 29 '24; Same. Eng & Contr (Ry) 63:153-8 Ja 21 '25
Drains under earth dams. Eng N 94:1070-1 Je 25 '25
Engineering improvements on old drainage districts. C. H. Young. Eng N 94:153 Ja 22 '25
Erosion extends relief channel far beyond its bounds. C. E. Ramser. il diag map Eng N 94:391-2 Mr 5 '25
Handling silt in settling basins. R. M. Towl. diags plan Eng & Contr (W W) 62:341-4 Ag 13 '24; Abstract. Eng N 92:488-9 Mr 20 '24
Land drainage and game preservation. E. R. Jones. Eng N 92:765 My 1 '24
Method of reconstructing old open drainage ditches. J. L. Parsons. diag Eng & Contr (W W) 62:77-9 Jl 9 '24
Reconstruction of old ditches into tile drains. J. W. Dappert. Eng & Contr (W W) 61: 803-4 Ap 9 '24
Roadbed drainage and crossing of Chicago sewer; I.C.R.R. diags plans Eng N 92:410-12 Mr 6 '24
Solving drainage problems with dynamite in Illinois. il Munic & Co Eng 67:245 N '24
Tile lines cure a wet cut. il Ry Age 79:399-400 Ag 29 '25; Same. Eng & Contr (G C) 64: 657-8 S 16 '25
Treatment of soft roadbed. A. N. Reece. Ry Age 79:574-5 S 26 '25; Same cond. Eng & Contr (G C) 64:917-18 O 21 '25
Underdrainage and its application to railway work. R. D: Walker. Engineering 117:141 F 1 '24
Water table experiments. J. H. Stewart. Can Eng 49:218 Ag 11 '25

See also Drain tile; Dredging; Irrigation; Mine drainage; Rain and rainfall; Reclamation of land; Roads—Drainage; Sewerage

Cost

Drain tile costs and farm drainage. J. W. Dappert. Eng N 94:152 Ja 22 '25

England

Fen pumping station of the Haddenham level commission. il diag plan Engineering 120: 99-102 Jl 24 '25

Florida

Reclaiming Florida Everglades. H. M. Wright. il Forbes 14:611-12 Ag 15 '24

Japan

Difficulties in long tunnel for Japanese railways. K. Kusuda. il diag Eng N 95:336-8 Ag 27 '25

Kansas

Drainage and flood protection of an industrial district in Kansas. O. H. Horner. il diags map Eng N 94:238-40 F 5 '25

Minnesota

Supreme court decides interstate drainage suit; Minnesota not responsible for flooding Dakota stream. map Eng N 92:1008-9 Je 12 '24

Missouri

Additional drainage works in Little River district. E. S. Blaine. il diags map plan Eng N 95:496-500 S 24 '25
Half million acres reclaimed by drainage in southeast Missouri. A. S. Fry. il Manuf Rec 85:99-102 Je 5 '24

Nevada

Drainage construction on Newlands reclamation project. A. W. Walker. il diags map Eng N 93:382-6 S 4 '24
Rapid low-cost excavation of drain ditches. A. W. Walker. il charts Eng N 93:426-8 S 11 '24

South Dakota

South Dakota drainage ditches with flood gates. P. S. Egbert. diag map Eng N 93: 334-5 Ag 28 '24

Winnipeg

Flood protection of Winnipeg district. N. Barritt. plan Can Eng 48:379-80 Ap 7 '25

DRAINAGE, House
Constructing drains for porch floors. I. P. Hicks. diags Bldg Age 47:142 Mr '25
Who is right? roof drainage, sizes of rain leaders, house drains etc. R. M. Starbuck. diags Dom Eng 110:24-8 F 14 '25

See also Plumbing; Soil pipes

DRAINAGE law
Comments on the Municipal improvement act. J. R. Scott. Can Eng 46:399-400 Ap 1 '24
Defect in Illinois drainage law. Eng N 92: 569 Ap 3 '24
Irrigation and drainage laws critically reviewed. R. P. Teele. Eng N 93:788-90 N 13 '24

DRAINAGE pits. See Gasoline service stations —Drainage pits and racks

DRAMA in industry
Drama in industry. J. M. Dorey. Forbes 14: 719-20 S 15 '24

DRAPERY
Draperies. F. J. Ringo. 119p Shaw '25
Interior architecture. il Am Arch 125:313-18 Mr 26 '24
Sluggish market corrected by sale of draperies instead of drapery material. Ptr Ink 127:121-4 Ap 3 '24
Three-end leno jacquard effects. il Textile World 65:3317+ My 17 '24

Advertising

Another way to create new uses; manufacturer of Dolly Madison bedspreads finds a market for draperies to match. Ptr Ink 126: 25-7 Ja 31 '24

DRAWBARS

Testing

Testing drawbars on cars. il Elec Ry J 65:344 F 28 '25

DRAWBRIDGES

See Bridges, Bascule; Bridges, Lift

DRAWING

See Drafting room practice; Drawings; Geometrical drawing; Mechanical drawing

DRAWING, Architectural. See Architectural drawing

DRAWING, Geometrical. See Geometrical drawing

DRAWING, Mechanical. See Mechanical drawing

DRAWING instruments
L'électrographe Rex, appareil pour le tirage des dessins industriels. il diag Génie Civil 83:650 D 29 '23
Glover drafting machine. il Mach 31:827-8 Je '25

DRAWING room practice. See Drafting room practice

DRAWINGS
Group of pencil sketches in northern Africa. L: C. Rosenberg. il Arch Forum 39: 291-4 D '23

DREDGES
All electric sea going dredge. C: E. Fowler. il diag plan Eng & Contr (Ry) 62:155-7 Jl 16 '24
All-electric sea-going hopper dredges. H. C. Coleman. il diag Elec J 21:438-42 S '24
Army engineers build four seagoing electric dredges. il plans Eng N 93:57-9 Jl 10 '24
Dampfeimerbagger und transportmittel beim baggerbetrieb. il Zeit Ver Deutsch Ing 68: 693-5 Jl 5 '24
Diesel-electric dredge A. Mackenzie completes trials. il Marine Eng 29:408-11 Jl '24
Diesel electric dredge Texas shows marked economy in operation. plan Marine Eng 29: 341-2 Je '24
Diesel-electric pipe-line dredge Clackamas. J. H. Polhemus. il diag plan Mech Eng 47: 605-12 Ag '25; Same cond. Eng & Contr (G C) 64:643-9 S 16 '25
Dredger of the Chinese chain pump type. G: F: Zimmer. il Cassier's Ind Management 11:83-4, 107+ F 7-21 '24
Electric-hydraulic dredge work on Illinois levees. il diag Eng N 92:944-5 My 29 '24
First Diesel-electric army dredge completed. il diags plans Marine Eng 29:230-3 Ap '24
Getting more freeboard for ocean transportation of dredge. Eng & Contr (G C) 64:900 O 21 '25
Harbour plant at the British Empire exhibition. il diag Engineering 117:546-9, pl 46-50 Ap 25 '24
High-lift hydraulic dredge has toothed cutter head. V. J. Milkowski. il Eng N 92:1016-17 Je 12 '24
Hydraulic sea-going hopper dredgers; abstracts. W. D. Styer. Engineering 118: 713 N 21 '24; Marine Eng 29:728-9 D '24
Improvements in suction dredgers. diags Engineer 137:146 F 8 '24
Keeping open our harbor channels. il plan Sci Am 130:149 Mr '24
Levee work with dipper dredges. diag Eng & Contr (G C) 64:883 O 21 '25
New all steel electric dredge. il Blast F & Steel Pl 11:643-5 D '23
Oil type harbor dredge. il Marine R 54:289-92 Jl '24
Some great dredges. J. F. Springer. il Sci Am 129:394-5 D '23
Some recent British dredgers. il Engineer 138:694, 695-6, 698 D 19 '24
Stern-wheel dredger for the Columbian government. il Engineering 120:325-6 S 11 '25
Suction dredges in dam construction. S. Edwards. Eng & Contr (W W) 63:526-7 Mr 11 '25
Twenty-six inch hydraulic dredge. R. R. Roane. il Marine Eng 29:340-1 Je '24

See also Excavating machinery

DREDGING
Automatic tension engine applied to deep sea dredging. il Marine Eng 30:388-9 Jl '25
Dredge pump maintenance; comparison of wear of lined and unlined pumps. J. H. Polhemus. il diag Eng & Contr (G C) 63: 1327-30 Je 17 '25
Dredging and land reclamation. E. Latham. Engineering 118:437-8 S 26 '24
Dredging at port of Portland. J. H. Polhemus. Eng & Contr (Ry) 62:1346-8 D 17 '24
Great Seattle tide flats fill. C: E. Fowler. Eng & Contr (Ry) 62:651-3 S 17 '24
Net clears channel, saves 95 per cent. il Marine R 54:136-7 Ap '24
Practical hydraulic engineering problems. O. C. A. van Lidth de Jeude. Engineer 137: 232 F 29 '24
Sea level canal between the Delaware and Chesapeake. il diags maps Eng N 95:702-6 O 29 '25
Six-cent copper from Calumet & Hecla tailings. C. H. Benedict. flow sheet il diags map Eng & Min J 117:277-84 F 16 '24

See also Dredges; Excavation; Gold dredging

Cost

Practical hydraulic engineering problems. O. C. A. van Lidth de Jeude. Engineer 137: 232 F 29 '24

DREICER & company
Making pearls of great price. Comm & Fin 14:419 Mr 4 '25

DREIS & Krump manufacturing company
Treating jobbers fairly spells success for machinery builder. E. C. Barringer. il Iron Tr R 76:1249-51 My 14 '25

DRESS fasteners
Manufacturer's museum becomes a public institution; Waldes museum, Prague. Ptr Ink M 8:82+ My '24

DRESS goods
Preparation and dyeing of ladies' dress fabrics. L: J. Matos. Am Dyestuff Rep 13:447-8, 463-4 Je 30-Jl 14 '24
Wholesalers' association of dress fabric buyers annual meeting, New York, Jan. 20. Textile World 67:437-9 Ja 24 '25

See also Flannel; Linen; Textile fabrics; *also* Wholesalers' association of dress fabric buyers

DREWSEN process. See Paper making—Drewsen process

DRIED food. See Drying (fruit and vegetables)

DRIED milk. See Milk, Dried

DRILL pointer. See Drilling and boring machinery—Sharpening

DRILLING and boring (earth and rocks)

Borehole surveying by the Kiruna method. S. Lundberg. il diags Eng & Min J 117:690-3 Ap 26 '24

Borings for the Narrows tunnel, New York. Pub Works 55:338 N '24

Buda-Hubron power-driven earth drill. il Ry R 76:546 Mr 14 '25; Elec Ry J 65:742 My 9 '25

Corn products co. water supply and underground pumps. il diags Eng N 93:501-3 S 25 '24

Deep hole drilling by use of sectional steel rods. H. R. Drullard. diags Coal Age 25: 614-15 Ap 24 '24

Deep hole drilling with air drills. Eng & Contr (G C) 64:632 S 16 '25

Diamond drilling for carnotite in Colorado. G: Kunkle. Eng & Min J 119:763-4 My 9 '25

Diamond drilling under difficulties. R. P. McGrath. il Eng & Contr (W W) 61:95-9 Ja 9 '24

Drill rig for bridge site borings. F. L. Klein. il Eng & Contr (R & S) 63:1236-7 Je 3 '25

Drilling and blasting. R. E. Tally. il Min Cong J 10:167-8 Ap '24

Drilling deep holes with hammer drills and sectional drill rods. H. R. Drullard. il diags Eng & Min J 117:384-6 Mr 1 '24

Earth-boring and pole-setting machine. il Elec Ry J 63:475-6 Mr 22 '24

Earth-boring machine. il Sci Am 131:255 O '24

Easy method for properly directing the holes for V-cuts in tunnel driving. C: S. Turter. diag Eng & Contr (Ry) 60:1321-2 D 19 '23

F. W. D. machine for boring holes in solid rock. il Elec W 85:353-4 F 14 '25; Eng & Contr (W W) 63:318 F 11 '25; J Elec 54: 327 My 1 '25

How the diamond drill proved useful on one oil lease. J. Purzer. diags Eng & Min J 116:947-8 D 1 '23

Leyner drill in underground prospecting. R. H. Poston. diags Eng & Min J 118:856-7 N 29 '24

Measuring depth accurately in rotary well drilling. A. G. Wolf. diags Eng & Min J 116:1122-3 D 29 '23

Pneumatic equipment for breaking ice and frozen ground. V. H. Van Diver. il Munic Eng 67:138-9 Mr '24; Same. Eng & Contr (R & S) 61:547-8 Mr 5 '24; Same. Gas Age 53:319-20 Mr 15 '24

Recovering stuck diamond drill bits. R. H. Poston. diags Eng & Min J 119:451-2 Mr 14 '25

Sculptural engineering at Stone Mountain, Georgia. il diag plan Eng N 93:466-8 S 18 '24

Sullivan portable diamond drill outfit. il Eng & Contr (Equip R) 64:725-6 S 30 '25

Well-drilling methods applied to sinking foundation piers. Eng N 95:106 Jl 16 '25

What kind of clay drill shall I use? il Brick & Clay Rec 66:911-13 Je 9 '25

See also Pavements—Cutting; Petroleum—Well boring; Pneumatic hammers; Pole setting machines; Rock drills; Shaft sinking; Wells

DRILLING and boring (metal working, etc.)

Air-cylinder valve holes bored in radial drill. J. Haydock. il Am Mach 61:578 O 9 '24

Boring armature bearing housings. il diags Elec Ry J 65:942 Je 13 '25

Boring concentric slots. P. F. Shafran. diags Mach 31:208-9 N '24

Boring differential housings. H. C. Town. diags Am Mach 61:744 N 6 '24

Boring evenly spaced holes. S. W. Brown. diags Mach 31:811 Je '25

Boring job without a boring mill. A. Fancher. Am Mach 60:264 F 14 '24

Deep-hole drilling in large lathe. il Iron Age 113:419-21 F 7 '24

Deep-hole drilling job. G. W. Jager. diags Mach 31:209-10 N '24

Dissimilar motor shells rebored to same size. il Elec Ry J 66:292-3 Ag 22 '25

Drilling, boring and reaming with the lathe. G. H. Radebaugh. il diag Brick & Clay Rec 63:924-9 D 25 '23

Drilling motor parts on the rotating table. W. F. Sandmann. il diags Am Mach 60: 197-9 F 7 '24

Drilling operation on rings. W: F. Sandmann. il diag Am Mach 61:822 N 20 '24

Drilling operations on automobile parts. H. L. Tigges. il diags Mach 31:109-11 O '24

Drilling screen holes in oil-well casing. C. S. Ashley. il diag Mach 32:190 N '25

Drilling tube heads for condensers. J: K. Simeon. il Am Mach 62:285 F 12 '25

Example of hexagon drilling. diag Mach 30: 656 Ap '24

Examples of heavy-duty drilling and boring. H. L. Tigges. il diags Mach 31:46-8 S '24

Fixture for reboring lathe tailstocks. W: Wilson. diag Mach 30:888 Jl '24

Hints on twist drills and their use. A. Eyles. Sheet Metal Worker 16:596+ S 11 '25

How skillful use of drill press minimizes consumption of time in repair work. G. H. Radebaugh. il Coal Age 24:699-705 N 8 '23

How to estimate machine shop costs. A. A. Dowd. diags Am Mach 61:839-42 N 27 '24

Ingenious arrangement for multiple drilling. J. A. Long. il diags Am Mach 59:888-9 D 13 '23

Jigs expedite multiple drilling. il Elec Ry J 65:335-6 F 28 '25

Low-cost boring fixtures. F. C. Henry. diags Am Mach 60:377 Mr 6 '24

Possibilities of heavy-duty drilling. H. L. Tigges. diags Mach 30:950-2 Ag '24

Reboring 101-B motor frames for oversize housings. E. F. Whitney. il Elec Ry J 65: 761-3 My 16 '25

Significance of tool temperatures as a function of the cutting resistance of metals. H. A. Schwartz and W. W. Flagle. il Am Soc T M Pro 23 pt 2:27-39 '23

Taper and form-boring attachment. D. Baker. diags Mach 31:502 F '25

Two drilling operations. il Am Mach 62:960 Je 18 '25

Weight removed from sphere by boring. F. M. Weston, jr. Mach 30:301-2 D '23

What about automobile shops? A. L. DeLeeuw and K. H. Condit. Am Mach 59:683-4 N 8 '23; Discussion. 59:828; 60:441-2 D 6 '23, Mr 20 '24

See also Grooving; Locating devices; Trepanning

DRILLING and boring machinery

American maxi-speed, sensitive ball-bearing, radial drill. il Am Mach 63:214 Jl 30 '25; Iron Age 116:352-3 Ag 6 '25

Archdale special drilling machine for front axles. il Automobile Eng 15:187 Je '25

Automatic drilling machine for small parts by the Charles Stecher co. il Iron Age 114:1551 D 11 '24

Automatic sensitive drilling machines. il Iron Age 114:989 O 16 '24

Baker bros. locomotive rod boring machine. il Ry Mech Eng 98:48-9 Ja '24; Ry R 74:1060 Je 7 '24

Baker brothers single-purpose double-spindle drilling and boring machine. il Iron Age 116:214 Jl 23 '25

Barnes drill company brings out new drill and tapper with self-indexing work table. il Iron Age 113:1286 My 1 '24; Automotive Ind 50:1285 Je 12 '24

Barnes drilling and tapping machine for production work. il Iron Age 114:1207 N 6 '24

Barnes front axle drilling and reaming machine. il Automotive Ind 50:145 Ja 17 '24

Baush heavy-duty horizontal multiple-spindle drilling machine. il Am Mach 61:171 Jl 24 '24

Betts car wheel boring machine. il Am Mach 60:33 Ja 3 '24; Iron Age 113:147 Ja 10 '24; Mach 30:399 Ja '24; Ry Mech Eng 98:183 Mr '24

Betts car wheel boring machine equipped with a double hoist. il Ry Mech Eng 98: 385-6 Je '24; Am Mach 60:822 My 29 '24; Mach 30:821 Je '24

DRILLING and boring machinery—*Continued*
Betts 100-in. double-driven vertical boring mill. il Am Mach 60:379 Mr 6 '24; Mach 30: 648-9 Ap '24
Blodgett Buhr multi-head drill press no. 2P. il Am Mach 61:940; 62:595 D 11 '24, Ap 9 '25
Bohr- und fräswerke im grossmaschinenbau. A. Schlegelmilch. il diags Zeit Ver Deutsch Ing 68:865-71 Ag 23 '24
Boring, drilling and tapping machines at the Olympia exhibition. il diags Engineering 118:313-18, 358-9, pl 29-32, 37-8 S 5-12 '24
Carlton 7-ft. heavy duty radial drill. il Ry Mech Eng 99:245-6 Ap '25
Caulkins full-automatic super-sensitive drilling machine. il Am Mach 63:755 N 5 '25
Chicago pneumatic red giant drill. il Mach 30:567 Mr '24
Cincinnati Bickford direct-drive movable-head drill. il Iron Age 114:915 O 9 '24
Cincinnati-Bickford heavy type plate and rivet hole driller. il Ry Mech Eng 99:396-7 Je '25
Cincinnati hypro 8-ft. boring mill. il Am Mach 62:709-10 Ap 30 '25; Iron Age 115: 1263 Ap 30 '25; Mach 31:738-9 My '25
Colburn locomotive-rod boring machine. il Am Mach 61:251 Ag 7 '24
Cylinder boring fixture for Gisholt lathe. O. Kampschaefer. diags Am Mach 60:707 My 8 '24
Davenport 5-spindle non-stop automatic drilling machine. il Am Mach 63:753-5 N 5 '25
Davis rotormatic boring and facing machine. il Am Mach 60:415 Mr 13 '24
Defiance drilling machine with adjustable multiple spindles. il Iron Age 115:1570 My 28 '25
Device for drilling saddle bolt holes. diags Ry Mech Eng 99:301 My '25
Dreses 6-ft. ball-bearing radial drilling machine. il Am Mach 60:521-2 Ap 3 '24; Iron Age 113:931 Mr 27 '24; Ry Mech Eng 98:374-5 Je '24
Drilling heads that hold the work. F. C. Hudson. il diags Am Mach 63:630-1 O 15 '25
Drilling machines of unusual design. il diag Mach 31:785-9 Je '25
Duplex locomotive rod boring machines. il Ry Mech Eng 98:643-5 O '24
Duplex topping, bossing and boring machine. Engineering 119:665-6, 672, pl 45 My 29 '25
Early history of the cylinder boring machine. E. A. Forward. diags Engineer 138:686-7, 714-15 D 19-26 '24
Eccentric drilling fixture. O. S. Marshall. diag Mach 30:631-2 Ap '24
Edlund tilted production drilling machine. il Am Mach 59:783-4 N 22 '23
Efficient machine for drilling staybolt telltale holes. il Ry Mech Eng 97:838 D '23
Eight-spindle cylinder boring machine for production work brought out by the Defiance machine works. il Iron Age 114:514 Ag 28 '24
Entstehungsgeschichte des spiralbohrers für metalbearbeitung. Trautvetter. Zeit Ver Deutsch Ing 69:225-6 F 21 '25
Equipping a boring mill for cutting keyways. F. A. Thas. il diag Mach 31:137 O '24
Fifty years' progress in drilling machines, Cincinnati-Bickford tool company. il Mach 30:352-4 Ja '24; Am Mach 60:21-3 Ja 3 '24; Iron Age 113:61-5 Ja 3 '24
Fixtures for boring and testing locomotive rods. F. H. Colvin. il Am Mach 60:947-9 Je 26 '24
Flexible drive for drill chucks and tap holders. diags Engineering 120:511 O 23 '25
Foote-Burt improved machine. il Iron Age 112: 900 O 4 '23; Iron Tr R 73:964-5 O 4 '23; Automotive Ind 49:1112-13 N 29 '23
Foote-Burt no. 25½ high-duty drilling machine. il Am Mach 61:210 Jl 31 '24; Iron Age 114:259 Jl 31 '24; Automotive Ind 51:360 Ag 21 '24; Mach 30:987-8 Ag '24
Fosdick heavy-duty radial drills, 4, 5- and 6-foot. il Am Mach 62:712 Ap 30 '25; Iron Age 115:1273 Ap 30 '25; Mach 31:745-6 My '25
Four-bar cylinder-boring machine. il Engineering 120:543-4, 546 O 30 '25
Fox four-way multiple-spindle drilling machine. il Am Mach 62:443-4 Mr 12 '25; Iron Age 115:761 Mr 12 '25
Fox special drilling and tapping machines. il Am Mach 60:490 Mr 27 '24
Giant boring mill built in Canada. il Iron Age 113:1508-10 My 22 '24; Iron Tr R 75:1501 D 4 '24
Greenlee bros. multiple-spindle drilling machines. il Am Mach 60:865-6 Je 5 '24; Mach 30:808-10 Je '24
Hoefer transmission case boring outfit has high capacity. il diag Automotive Ind 52: 949 My 28 '25; Mach 31:829 Je '25
Improving modern twist drills. B. W. Benedict and W. P. Lukens. diags Iron Tr R 76:569-71 F 26 '25
Increasing automobile production with special machines. il Mach 31:363-6 Ja '25
Ingersoll cylinder boring and reaming machine. il Am Mach 60:189-90 Ja 31 '24
Inspection methods and gages used in building radial drilling machines. il Am Mach 62:655 Ap 23 '25
Johnson multiple drilling and tapping machine. il Am Mach 61:24-5 Jl 3 '24
Langelier continuous rotary drilling machine. il Am Mach 61:825 N 20 '24; Iron Age 114: 1419 N 27 '24; Mach 31:317 D '24
Lathe fixture for elliptical turning and boring. T: C. Smillie. il diag Mach 31:476 F '25
Leland-Gifford sensitive drills with motorized spindles. il Iron Age 115:615 F 26 '25
Ling pneumatic drill. il diags Engineer 139: 442 Ap 17 '25
Lowering costs with a jig boring machine. il Mach 32:117 O '25
Luehrs semi-automatic drilling and tapping machine. il Am Mach 63:77-8 Jl 9 '25
Master radial drilling machine. il Ry Mech Eng 97:846-7 D '23
Les meilleures conditions du travail à la perceuse pour métaux. N. Sawine. diags Génie Civil 85:91-3 Jl 26 '24
Miniature radial drilling machine. il Engineer 139:497 My 1 '25
Morris radial drill provided with a tapping attachment. il Ry Mech Eng 99:384-5 Je '25
Multi-spindle boring and tenoning machines. il diags Engineering 118:296, 297-8 Ag 29 '24
Murchey automatic double-end threading reaming and drilling machine. il Am Mach 62:553 Ap 2 '25
Newton locomotive rod borer. il Iron Age 114: 564 S 4 '24
Patriarch among drill presses. J: Williams. il Am Mach 59:744-5 N 15 '23
Pollard and company 36-in. geared sensitive radial drill. il diags Engineering 118:440-2 S 26 '24
Pratt & Whitney differential-housing boring and reaming machine. il Am Mach 63:36 Jl 2 '25; Automotive Ind 53:22-3 Jl 2 '25; Iron Age 116:14 Jl 2 '25; Mach 31:910-11 Jl '25
Pratt & Whitney improved jig boring machine. il Iron Age 115:962 Ap 2 '25; Am Mach 62:554 Ap 2 '25
Semi-automatic machine tooled up to drill, counterbore and tap the ball of the plug of gas stove cocks. il Iron Age 116:11-12 Jl 2 '25
Shop rig for drilling deep holes. W: Denton. il Am Mach 61:475-6 S 18 '24
Single-hole production drilling. W. F. Sandmann. Am Mach 63:631-2 O 15 '25
Some ball-bearing boring fixtures. H. O. Schultz. il diags Am Mach 62:503-4 Mr 26 '25
Standard drilling machine equipped for production work built by the Hoefer mfg. co. il Iron Age 116:414-15 Ag 13 '25
Swift 6-ft. radial drilling machine. il diags Engineering 120:103, 108 Jl 24 '25
Tire boring machine of British design. il Iron Age 113:710 Mr 6 '24
Tools and equipment for drilling square and hexagon holes. diags plan Engineering 120: 242-4 Ag 21 '25
Trepanning and boring tools. diags Engineering 119:242-3 F 20 '25

DRILLING and boring machinery—*Continued*
Twelve-spindle machine of British design for drilling rail slots. il diag Iron Age 113:228 Ja 17 '24
Universal tri-way boring machine. il Mach 31:70 S '24
Verbesserung der holztränkung durch anstechverfahren. R. Nowotny. il diags Zeit Ver Deutsch Ing 68:1273-5 D 6 '24
Viktor variable speed drilling machine. il Iron Age 115:408 F 5 '25
Wisabo rapid-boring knives. il Am Mach 62: 977 Je 18 '25

See also Boring bars; Broaches; Broaching; Counterbores; Jigs; Machine tools; Reamers

Manufacture

Forging the flutes in twist drills. il Am Mach 63:469-71 S 17 '25
Manufacturing the right line radial drill. J: Haydock. il Am Mach 61:495-8, 543-5 S 25-O 2 '24

Sharpening

Oliver automatic drill pointer. il Am Mach 63: 520-1 S 24 '25; Mach 31:581-2 Mr '25; Ry Mech Eng 99:658-9 O '25

Standards

Table of drill sizes for taper pins; reference-book sheet. Am Mach 63:635 O 15 '25
Thread dimensions and tap drill sizes; data sheet. Mach 31:186a, 270a N-D '24

Tables, calculations, etc.

Speed and feed tables for drilling machines. L. M. Francis. Am Mach 60:390 Mr 13 '24

Testing

Magnetic tests of A.S.T.M. drills. W. B. Kouwenhoven. diags Am Soc T M Pro 24 pt 2:635-50 '24

DRILLING and boring machinery, Portable
Giddings & Lewis universal radial, boiler and fire box and 6-ft. plain radial types. il Iron Age 115:638-9 F 26 '25; Am Mach 62:514-15 Mr 26 '25; Mach 31:662-3 Ap '25; Ry Mech Eng 99:523-4 Ag '25
Performance of small portable drill motors. E. L. Connell. il diags Ind Eng 82:235-7 My '24

DRILLS. See Drilling and boring machinery

DRILLS, Rock. See Rock drills

DRINKING fountains
Final report of the committee on sanitary drinking fountains. Am Water Works Assn J 11:483-6 Mr '24
Some drinking founts are unsanitary. il Sci Am 132:408-9 Je '25

DRIVEWAYS
Design of private drive entrances in relation to street traffic. G: H. Herrold. diags Eng N 94:160 Ja 22 '25

DRIVING box shoes. See Locomotives—Driving box shoes

DRIVING boxes. See Locomotives—Driving boxes

DROP hammers. See Hammers, Drop

DROPS
Falling drops; abstract. E. Mayer. Mech Eng 46:555 S '24

DRUG habit
Study drug addicts in New York state prisons. A. Kossef. Nation's Health 7:16-18 Ja '25

DRUG manufacturers' association, American. See American drug manufacturers' association

DRUG trade
Distribution through the drug trade. C. H. Waterbury, comp. 63p [bibliog. p. 60-1] National wholesale druggists' assn., New York '25
Drug store merchandising. P. J. Mandabach. 191p National drug clerk, Chicago '23
Drugs output in 1923 increased over 1921. Oil Paint & Drug Rep 106:56 D 29 '24
Frenzied merchandising. E. B. Weiss. Ptr Ink 132:65-6+ Ag 6 '25
Is the druggist losing business to the grocer? J. Calvin. Ptr Ink 133:113-14+ O 22 '25
National wholesale druggists' association golden jubilee convention, Atlantic City, Sept. 22-25. Oil Paint & Drug Rep 106:1+ O 1 '24
National wholesale druggists' association 51st convention, Detroit, Oct. 5-8. Oil Paint & Drug Rep 108:4-54 O 15 '25
Order takers turned salesmen ring up bigger profit for Merrell. D. D. Lukens. Sales Management 8:149-50+ Ja 24 '25
Report of N.W.D.A. committee on proprietary goods. Oil Paint & Drug Rep 106:40-2 O 1 '24; 108:39-43 O 15 '25
Rexall course in drugstore management and salesmanship. H. Whitehead. 4v Press of G. H. Dean, Boston '24
Survey of merchandising trends in the drug field. R. W. Johnson. Sales Management 8: 661-3+ My 2 '25
Treatise on commercial practices with special reference to their application in the practice of pharmacy. S. S. Smith. 214p Press of F. H. Evory & co., Albany '24
What 27,080 druggists had to say about price cutting. Ptr Ink 133:162+ N 5 '25
Why should druggists fight department stores? Ptr Ink 131:109+ Ap 30 '25
Why we always have what customers want. I. V. Kisselberth. il System 46:567-70+ N '24

See also Chemistry, Medical and pharmaceutical; Drugs—Prices; *also* National wholesale druggists' association

Accounting

Report of N.W.D.A. committee on uniform accounting. Oil Paint & Drug Rep 106:38-40 O 1 '24; 108:34-5 O 15 '25

Advertising

Help your dealers sell more to each customer. Ptr Ink 131:175-6 My 28 '25
Planning direct advertising in the drug field. R. E. Ramsay. Inland Ptr 75:735-7 Ag '25
What three years of advertising did for Squibb's sixty-five-year-old trade-mark. J: M. Van Horson. Ptr Ink 126:73-4+ Mr 20 '24

Costs

Cost of handling goods. R: Lennihan. Oil Paint & Drug Rep 108:34-5 O 15 '25
Harvard bureau's cost analysis. Oil Paint & Drug Rep 106:38; Discussion. 43-5 O 1 '24

Research

Report of N.W.D.A. committee on education. Oil Paint & Drug Rep 108:35-6 O 15 '25

Brazil

Market for prepared medicines in Brazil. M. A. Cremer. U S Bur For & Dom Com Trade Information Bul 165:1-14 '23

Canada

Canadian drug trade acts to stop price cutting. Ptr Ink 131:54 Je 25 '25

Mexico

Selling American drugs in Mexico. E: Hungerford. il Ptr Ink M 10:36-7+ Ap '25

DRUGS
Deterioration of drugs and how to prevent it. J. W. England. il Am Exporter 94:37+ Ja '24
Report of N.W.D.A. committee on quality of medicinal products. Oil Paint & Drug Rep 106:49-50 O 1 '24; 108:38 O 15 '25

See also Chemistry, Medical and pharmaceutical; Drug trade; Hypnotics; Narcotics; Pharmacy; *also* Lilly, Eli, and company

Laws and legislation

Report of N.W.D.A. committee on legislation. Oil Paint & Drug Rep 106:45-8 O 1 '24; 108: 43-6 O 15 '25

DRUGS—*Continued*

Prices

Botanical drugs. Published in weekly numbers of Oil paint and drug reporter

Botanical drugs; market review. Oil Paint & Drug Rep 105:84-9 Mr 20 '24; 107:82-7 Mr 26 '25

Drugs and fine chemicals. Published in weekly numbers of Oil paint and drug reporter

Drugs and fine chemicals: market review. chart Oil Paint & Drug Rep 105:78-83 Mr 20 '24; 107:78-82 Mr 26 '25

Monthly price list of drugs. Published in monthly numbers of Journal of the society of dyers and colourists

Report of the N.W.D.A. committee on drug market. Oil Paint & Drug Rep 106:15+ O 1 '24; 108:15+ O 15 '25

Standards

Drug standard adopted at Brussels conference. Oil Paint & Drug Rep 108:40a O 19 '25

DRUMS

This plan kept sales growing in a thin market; Ludwig & Ludwig. D. Hubbard. Ptr Ink 131:17-20 Ap 23 '25

DRUNKENNESS

When is a man drunk? Sci Am 132:337 My '25

DRY cleaning. See Cleaning

DRY docks

Canada has world's largest drydock. E. L. Chicanct. il Marine R 54:90-1 Mr '24

Canadian government dry dock at Esquimalt, B. C. Engineering 118:449-50, 454, pl 50; 119:99-101, pl 6 S 26 '24, Ja 23 '25

Canal lock serves as drydock. A. Gradenwitz. il Marine R 55:296-7 Ag '25

Construction of dry dock at St John, N.B. E. G. Cameron. il diags plan Can Eng 45:521-8 N 27 '23

Le dock flottant de 60 000 tonnes de Southampton. il diags plans Génie Civil 85:145-8 Ag 16 '24

Dry dock at Congella, Durban. il diags map Engineering 119:438-42, 452, 497-501, pl 29 Ap 10, 24 '25

Dry dock at Esquimalt, B.C. il Can Eng 46: 523 My 13 '24

Engineers improve floating drydock at Buffalo. il Marine R 54:404-5 O '24

Floating dock for advanced naval bases. diags plan Engineering 117:838 Je 27 '24

Floating drydock at Vancouver. il Can Eng 47:422-3 O 14 '24

Former German dock lifts former German ships. G. Atkinson. il Iron Age 115:26-9 Ja 1 '25

Les formes de radoub de la Nederlandsche Dok Maatschappij à Amsterdam. il diags plans Génie Civil 87:227-30 S 12 '25

Lifting capacity of floating dry docks. J. S. Crandall. diag Marine Eng 29:562 S '24

New dock equipment on the Clyde. il diags plan Engineer 139:233-5, 242, 274-6, 304-6, 332-3 F 27-Mr 20 '25

New dry dock at Havre. diags plans Engineer 137:662-3 Je 13 '25; Eng & Contr (Ry) 62:1337-42 D 17 '24

New floating dry dock for Southampton. il (supp) Engineer 137:198-9 F 22 '24; Engineering 117:206, 789-91, pl 78-80 F 15, Je 20 '24; Elec R (Lond) 95:713-14 N 7 '24

New government graving dock at Esquimalt, British Columbia. il Engineer 136:530, 532 N 16 '23

New graving dock of Messrs T. W. Greenwell and co., limited, Sunderland. il map Engineering 120:130-1, 138 Jl 31 '25; Engineer 140:111 Jl 31 '25; Marine Eng 30: 508 S '25

New Palmer's graving dock at Swansea. il diags maps Engineering 117:602-4, 610, 637-40, pl 63-4 My 9-16 '24; Engineer 137:540, 544-6, 576-7 My 16-23 '24

Southampton floating dock. E. H. Salmon; F. E. Wentworth-Sheilds. Engineering 119:101-2 Ja 23 '25

Les travaux d'agrandissement du port du Havre. C: Dantin. il diags Génie Civil 84: 393-9, pl 5 Ap 26 '24

Les travaux d'extension du port du Havre. M. Michel-Schmidt. diags map (supp) Soc Ing Civils Bul 77:433-515, pl 74-5 Jl '24

Repair

Repairing leaks in a dry dock by grouting. W. M. Angas. il diags plan Am Soc C E Pro 51:62-79 Ja '25; Excerpts. Engineer 139:359-60 Mr 27 '25

Salvage of a floating dock. il diags Engineering 119:61-2, 76 Ja 16 '25

DRY goods

Advertising gets much attention at retail dry goods convention. Ptr Ink 126:116+ F 14 '24

Conservatism prevails in dry goods trade. Dun's R 32:8+ Mr 1 '24

Decrease in distribution of dry goods. Dun's R 33:8-9 Je 27 '25

Dry goods trade. Published in weekly numbers of Commercial and financial chronicle

Dry goods trade more active. Dun's R 32:7-8 Je 28 '24

Merchants' manual. L. Hahn and P. White. 605p McGraw-Hill '23

New retail outlet for over fifteen industries. G. A. Nichols. Ptr Ink 129:17-20 N 13 '24

Outlook in dry goods trade encouraging. Dun's R 33:8-9 F 28 '25

Satisfactory distribution of dry goods. Dun's R 33:8-9 O 24 '25

Slight recession in dry goods sales. Dun's R 32:8-9 O 25 '24

Survey of merchandising trends in the dry goods field. R. W. Johnson. il Sales Management 8:863-4+ Je 13 '25

See also Department stores; Hosiery; Men's furnishing goods; Notions (merchandize); Textile fabrics; Underwear; *also* Southern wholesale dry goods association

Advertising

Planning direct advertising for women's wear and dry goods trade. R. E. Ramsay. il Inland Ptr 75:79-82 Ap '25

Dictionaries

Drygoodsman's handy dictionary. F. M. Adams.. 173p Drygoodsman and Southwest merchant-economist, St Louis '24

Prices

Retail prices of dry goods in the United States. Monthly Labor R 17:1057-66 N '23

Tables, calculations, etc.

Y and I price calculator. A. A. Lobban. 67p A. A. Lobban, Warrensburg, Mo. '24

DRY pans. See Crushing machinery

DRY rot

Dry rot and its eradication. C. J. Humphrey. Ry R 76:728-9 Ap 18 '25

Serious dry rot conditions in Alabama. Eng N 95:357 Ag 27 '25

DRYING

Catalytic effect of lead and manganese on the drying of China wood oil. G: E. Ludwig. Ind & Eng Chem 17:1160-1 N '25

Conditioning. B. F. Wadsworth. il Textile Col 46:507-10, 579-81 Ag-S '24

De la vaporisation dans les procédés de séchage sous vide. A. Martin. Chimie & Ind 13:3-8 Ja '25

Determination of moisture in wheat and flour. H. Snyder and B. Sullivan. Ind & Eng Chem 16:741-4, 1163-7 Jl, N '24

Drying of wood refuse and its importance to industry. A. J. T. Taylor and O: Nordstrom. il charts diags Paper Tr J 80:49-60 Ja 1 '25

Effect of certain metallic soaps on the drying of raw linseed oil. L. L. Steele. Ind & Eng Chem 16:957-9 S '24

Influence of intensive drying on inner equilibria. A. Smits. diag Chem Soc J 125:1068-75 My '24

DRYING—*Continued*
Observations on the drying of flour with notes on its hygroscopic properties. E. R. Smith and L. C. Mitchell. Ind & Eng Chem 17:180-3 F '25
Some observations on the drying properties of clays. D. C. Lindsay and W. H. Wadleigh. diags Am Cer Soc J 8:677-93 N '25
Théorie des procédés de séchage sous vide. A. Martin. diag Chimie & Ind 13:883-9 Je '25
What you should know about drying. W. E. Lemley. il Brick & Clay Rec 64:26-9 Ja 8 '24
See also Coal drying; Core ovens; Dehydration; Drying agents; Drying apparatus; Electric motors—Drying; Lumber drying; Milk drying; Molds (for casting)—Drying; Paper drying; Sand drying; Sewer pipes—Drying

DRYING (crops)
Artificial drying of crops. Engineer 138:441 O 17 '24; Engineering 118:554-5 O 17 '24

DRYING (fruit and vegetables)
California dehydration statistics. A. W. Christie. Am Soc Heat & V E J 29:591-4 O '23
California dehydration statistics for 1923 shows steady growth of the industry. A. W. Christie. Am Soc Heat & V E J 30:647-9 S '24
Construction of farm dehydraters in California. A. W. Christie and G. B. Ridley. il chart diags Am Soc Heat & V E J 29:687-716 D '23
Dehydration of fruit in California. R. C. Griffin. il J Elec 51:333-5 N 1 '23
Drying prunes in Oregon. E. H. Wiegand. Oregon Agric Exp Sta Bul 205:1-26 '24
Effects of the method of desiccation on the carbohydrates of plant tissue. K. P. Link. Am Chem Soc J 47:470-6 F '25
Effects of the method of desiccation on the nitrogenous constituents of plant tissue. K. P. Link and E. R. Schulz. Am Chem Soc J 46:2044-50 S '24
Vacuum dehydration. J. H. Buchanan and P. A. Zook. Chem & Met Eng 29:1097 D 17 '23
See also Raisins

DRYING agents
Contribution to the chemistry of drying oils. G. W. Ellis. Soc Chem Ind J 44:469-72, 486 O 2-9 '25
Control method for boiling drying oils. J. S. Long and J. G. Smull. il Ind & Eng Chem 17:138-41 F '25
Driers: simple and compound. E. Perry. Oil Paint & Drug Rep 105:20+ Ja 21; 20+ Ja 28; 20+ F 4; 20+ F 11; 20+ F 18; 20+ F 25; 20+ Mr 3; 20+ Mr 10; 20+ Mr 17; 20+ Mr 24; 20+ Mr 31; 20+ Ap 7; 20+ Ap 14 '24
Evolution of hydrogen peroxide by oils on exposure to light. G. F. A. Stutz, H. A. Nelson and F. C. Schmutz. il Ind & Eng Chem 17:1138-41 N '25
Magnesium perchlorate trihydrate; its use as drying agent for steel and organic combustion analysis. G. F. Smith, M. Brown and J: F. Ross. Ind & Eng Chem 16:20-2 Ja '24
Oxidation of Chinese wood oil. F. H. Rhodes and T. T. Ling. Ind & Eng Chem 17:508-12 My '25
Polymerisation of drying oils. R. S. Morrell. Soc Chem Ind J 43:362 D 19 '24
See also Linseed oil

DRYING apparatus
Apparatus for drying gases. V. T. Jackson. diag Ind & Eng Chem 16:163 F '24
Bark driers and refuse burning. G: D. Bearce. diags Tech Assn Pa ser 7:60-1 Je '24; Same. Paper Tr J 79:39-40 Jl 17 '24
Bark driers and refuse burning. A. J. T. Taylor. Paper Tr J 79:54 D 18 '24
Caterpillar paper dryer. J: W. Brassington. Paper 34:1135-7 O 9 '24
Centrifugal dryers and separators, their construction and use. E. A. Alliott. diag Chem Age (Lond) 10:236-8 Mr 8 '24; Abstract. Mech Eng 46:357-8 Je '24
Ceramic drying and driers. A. E. Stacey, jr., and H. B. Matzen. il diags Am Cer Soc J 8:525-33 Ag '25
Ceramic raw materials, driers and drying. G. F. Metz. il Am Cer Soc J 7:504-8 Jl '24
Cirplex drying plant. il diag Engineering 119: 25 Ja 2 '25
Comparison of gas and coke-fired drying stoves. Engineering 118:460-1 S 26 '24
Construction of farm dehydraters in California. A. W. Christie and G. B. Ridley. il chart diags Am Soc Heat & V E J 29:687-716 D '23
Drying by indirect heat conserves ammonia in fish meal. A. W. Allen. il Chem & Met Eng 32:568-9 Je '25
Drying by means of air and steam. E. Hausbrand. 3d ed., rev. 77p Van Nostrand '24
Drying, driers; their operation and control. M. W. Blair. Am Cer Soc J (Bul) 8:596-9 N '25
Drying of wood refuse and its importance to industry. A. J. T. Taylor and O: Nordstrom. il charts diags Paper Tr J 80:49-60 Ja 1 '25
Evaporating and drying plant. S. G. Ure. il diags Soc Chem Ind J (Chem & Ind) 43: 294-303, 350-4, 374-9 Mr 21, Ap 4-11 '24
Fool-proof drying ovens. W. F. Miller. Am Gas J 123:109-10+ Ag 8 '25
Humidity dryers for sewer pipe. il Brick & Clay Rec 66:668-70 Ap 28 '25
Krause process of spray drying. diag Chem & Met Eng 32:117-18 Ja 19 '25
Künstliche drahttrocknungsanlagen mit abwärmeausnutzung. O: Brandt. il diags Stahl & Eisen 45:1605-7 S 17 '25
Laboratory experiments in the development of a plant drier. W. E. Barrett. diags Am Cer Soc J 8:239-42 Ap '25
Low-temperature warm-air drying oven. il diags Sheet Metal Worker 15:377-8 Je 6 '24
Metallurgy of iron dryer rolls. J. W. Bolton. il diags Iron Age 116:800-2 S 24 '25
Minton's vacuum paper machine drier. il Paper Tr J 78:50 Ja 17 '24
Pulverized fuel systems. A. L. Cole. il diags Power 59:900-5 Je 3 '24
Refuse burning and bark driers. A. St Klein. diag Paper Tr J 79:43 S 18 '24
Spray drying. diags Chem & Met Eng 31:470 S 22 '24
Using gas for drying pickled sheets. W. A. Darrah. Iron Tr R 74:1115-16 Ap 24 '24
Vacuum drum drier improvements. diags Chem & Met Eng 31:589-90 O 13 '24
Vacuum evaporator and drum drier combined. diags Chem & Met Eng 31:747-8 N 10 '24
Vacuum rotary drier. diag Chem & Met Eng 32:587 Je '25
Waste heat driers for whiteware. T: C. Walker, jr. diag Am Cer Soc J 7:630-3 Ag '24
See also Centrifugal machines; Milk drying; Ovens; Paper drying; Sand drying

Textiles
Applying size and drying sized warp yarn. Textile World 68:2053-4+ O 3 '25
Conditioning textiles with gas. J. F. Springer. il Am Gas J 120:543-4+ Je 14 '24
Dryer for rayon. Textile World 67:3293 My 16 '25
Drying machine for warps and piece-goods; patent. diag Color Tr J 14:69-70 F '24
Drying wool. C: E. Mullin. Textile Col 47: 296-8 My '25
Drying yarn in the package. il Textile Col 47:171-2 Mr '25
European dryer. il Textile Col 47:445-6 Jl '25
Holbrook system of individual traps and syphons for dry cans. il Textile World 65: 381 Ja 19 '24
New industrial laundry drying apparatus developed. il diag Gas Age 56:129-30 Jl 25 '25
Speeding up production by the aid of gas boiler. J. E. Bullard. il Gas Age 53:87-8 Ja 19 '24

DRYING apparatus—Textiles—*Continued*
Textile mill mechanical department. diags Textile World 65:3165+; 66:1284+ My 10, S 6 '24
Yarn drying machine developed by Frank Bailey. il Textile World 65:3311 My 17 '24

DUBBS process. See Gasoline—Manufacture

DUBUQUE, Iowa
Air lift pumping plant at Dubuque, Iowa. J. W. McEvoy. Munic & Co Eng 67:263-5 N '24; Same. Am Water Works Assn J 14:23-8 Jl '25
Experience with the council-manager plan at Dubuque. O. E. Carr. Munic & Co Eng 68: 84-7 F '25

DUCK (textile)
Comparative wearing qualities of pima and ordinary cotton used in mail bags. F. R. McGowan, C. W. Schoffstall and A. A. Mercier. il diags U S Bur Stand Tech Pa 277: 73-83 '25
Drier canvas. diag Paper Tr J 80:46 Je 18 '25
Simplified duck list. Textile World 67:345 Ja 17 '25
Standardization and simplified practice in the textile industry. A. E. Foote. Textile World 67:847-8 F 7 '25

Specifications
Government specifications for cotton duck. Rubber Age 15:59 Ap 25 '24
Numbered cotton duck tolerances. Textile World 68:79 Jl 4 '25
United States government master specification for light-weight duck (army duck), grey. diags U S Bur Stand Circ 166:1-5 '24
United States government master specification for tent duck (special construction for bleaching or dyeing), grey. diags U S Bur Stand Circ 167:1-5 '24
United States government specification for numbered cotton duck. 2d ed. U S Bur Stand Circ 136:1-4 '24 [bound with Tech Pa 264]

Testing
Development of the standard numbered cotton duck specification; study of methods of tests and tolerances. C. W. Schoffstall and R. T. Fisher. plan U S Bur Stand Tech Pa 264:443-64 '24

DUCKS
Duck you hit is not the only duck you kill. Sci Am 132:265+ Ap '25

DUCO finish
Finishing and refinishing approaching high engineering standard. H. Chase. Automotive Ind 50:1134-7 My 22 '24
New pyroxylin automobile finish. S. D. Kirkpatrick. il Chem & Met Eng 31:178-82 Ag 4 '24
Pyroxylin enamels finding favor; abstracts. E. M. Flaherty. Soc Auto Eng J 14:352-3 Mr '24; Bus Transportation 3:186 Ap '24
Refinishing of automobile bodies. L. V. Pulsifer and O. H. Briggs. Soc Auto Eng J 14: 571-2 Je '24

DUDLEY, Plimon Henry, 1843-1924
Sketch. por Ry R 74:465-6 Mr 8 '24; Eng N 92:422 Mr 6 '24

DUHRING'S rule
Vapor pressure of organic solutions; an application of Dühring's rule to calculation of equilibrium diagrams. E. H. Leslie and A. R. Carr. diag Ind & Eng Chem 17:810-17 Ag '25

DUISBURG, Germany

Harbor
Die Duisburg-Ruhrorter häfen. Germanus. il diags map Zeit Ver Deutsch Ing 69:1213-20 S 19 '25

DULUTH, Minnesota

Rapid transit
Duluth valuation fixed at $5,009,510. Elec Ry J 65:164-5 Ja 24 '25
$8,496 increase in Duluth-Superior net. Elec Ry J 63:525 Mr 29 '24
Net income of Duluth-Superior traction company decreases. Elec Ry J 65:525 Mr 28 '25

DUMMIES (printing)
Layout desk for the average print shop. J. Friend. Inland Ptr 74:717 F '25

DUMP cars
Air dump car with traversing and tilting body made by the Differential steel car company. il Ry Mech Eng 99:247-8 Ap '25
Ballast car embodies new dumping features. il diags Ry Age 75:1167-8 D 22 '23
15-ton side-tipping wagons. il Engineer 139: 85 Ja 16 '25
Koppel automatic air dump car. il Eng & Contr (Equip R) 62:953-4 O 29 '24
Koppel steel dump car embodies new features. il Ry Age 79:278 Ag 8 '25
Labour-saving hopper-wagon. diags Gas J (Lond) 166:182 Ap 16 '24
Magor dump car embodies new features. il Ry Age 79:406 Ag 29 '25; Eng N 95:364 Ag 27 '25; Eng & Contr (Equip R) 64:751 S 30 '25; Eng & Min J 120:392 S 5 '25
Neuzeitliche deutsche selbstentlader. M. Buhle. il diags Zeit Ver Deutsch Ing 69: 1301-5 O 10 '25
Selbstentlader für erdarbeiten. E. Emmerich. il diags Zeit Ver Deutsch Ing 68:698-701 Jl 5 '24

DUMPING (commercial policy)
Methanol producers and refiners appeal for protection against synthetic product. Oil Paint & Drug Rep 107:21+ My 18 '25

DUMPING appliances
Automatic rotary dump makes big savings. il diags Coal Age 27:667-8 Ap 30 '25
Car dumper of a new type. il Eng & Min J 119:75 Ja 10 '25
Car dumper of unusual size and capacity erected by McMyler interstate co., Cleveland. il Iron Age 114:1619-20 D 18 '24; Same. Eng & Contr (Ry) 63:147-8 Ja 21 '25
Continental wagon tippler. diag Cassier's Ind Management 11:509-10 D '24
Denver & Rio Grande Western uses car dumper. il Ry Age 77:1115-16 D 20 '24; Same. Eng & Contr (Ry) 63:344-6 F 18 '25
Handling coal with gondola car dumper at St Louis. E. H. Kidder. il Gas Age 53:101-2 Ja 26 '24; Same. Iron Tr R 74:298-300 Ja 24 '24; Same. Iron Age 113:305-6 Ja 24 '24; Same. Blast F & Steel Pl 12:127-8 F '24; Same. Can Eng 46:463-4 Ap 22 '24; Same. Paper 34:105 My 8 '24; Same cond. Power Pl Eng 28:197-8 F 1 '24; Same cond. Elec W 83:287 F 9 '24; Excerpts. Sci Am 130:329 My '24; Ry Age 76:460 F 23 '24
Loading and unloading bulk materials to and from motor vehicles. il Cassier's Ind Management 11:277-9 My 15 '24
Pennsylvania builds large car dumper in record time. il diags plan Ry Age 79:839-43 N 7 '25; Iron Age 116:1178 O 29 '25
Railway wagon tips and their application. Cassier's Ind Management 12:361 Jl '25
Semi-automatic railroad car dumper, brought out by Wellman-Seaver-Morgan co. il diag Iron Age 112:1324-6 N 15 '23; Ry R 74:226-8 F 2 '24
Semi-portable dump solves refuse disposal problem. J. H. Edwards. il Coal Age 28:216 Ag 13 '25
Wagon tippler at the Clydesdale steel works. il diag Engineering 120:222-4 Ag 21 '25
Die wirkung der wagenkipper auf die güterwagen. Schulz. diags Zeit Ver Deutsch Ing 68:394-6 Ap 19 '24

See also Coal tipples; Dump cars

DUNCAN, British Columbia

Water supply
Extension to Duncan water works system. H. C. Mann. il plan Can Eng 46:515-16 My 13 '24

DUNKIRK, France
Le silo à grains du port de Dunkerque. P. Caufourier. il diags plan Génie Civil 86:421-5 My 2 '25

DUNKIRK, France—*Continued*

Harbor

Le port de Dunkerque. A. Moutier. maps Soc Ing Civils Bul 77:589-600, pl 78 O '24

DUNLAP, John H., 1882-1924
Sketch. por Mech Eng 46:571 S '24

DUNNING, Silas Wright, 1838-1924
Sketch. por Ry Age 76:1368-9 Je 7 '24

DUPLICATING processes. See Copying processes

DU PONT de Nemours, E. I., & company
Annual report for 1923. Comm & Fin Chr 118: 659-60 F 9 '24

Annual report for year ended Dec. 31, 1924. Comm & Fin Chr 120:696-7 F 7 '25

Du Pont goes after industrial paint contracts. R. Perry. Ptr Ink 126:157-8+ Mr 13 '24

E. I. du Pont de Nemours and company. C. L. Reese. il Ind & Eng Chem 17:1093-5 O '25

Financial status. Moody's Inv Serv 17:141-4 Ap 23 '25

DUQUESNE light company
Duquesne light co. 1st coll. 5½, 1949. Moody's Inv Serv 17:71 F 26 '25

DURALUMIN
Casting and heat treatment of some aluminum-copper-magnesium alloys. S: Daniels, A. J. Lyon and J. B. Johnson. Brass W 20: 427-9; 21:9-12 D '24-Ja '25

Characteristics of duralumin; reference-book sheet. Am Mach 63:203 Jl 30 '25

Duralumin, how it is treated, handled and protected against corrosion. H. C. Knerr. Automotive Ind 51:648-50 O 9 '24

Duralumin in all-metal body. il Bus Transportation 4:451-2 S '25

Duralumin; its composition and treatment. S. H. Phillips. il Am Mach 61:371-4 S 4 '24

Electric spot welding aluminum or duralumin. J. W. Meadowcroft. Am Mach 61:760 N 13 '24

Heat treatment of duralumin castings. Engineer 139:sup60-1 Ap 24 '25

Metals used in airplane construction. F. O. Carroll. il Iron Age 113:1205-6 Ap 24 '24

Question of duralumin welding. Aviation 18: 439 Ap 20 '25

Resistance of manganese bronze duralumin and electron metal to alternating stresses. R. R. Moore. il diags Am Soc T M Pro 23 pt 2:106-21; Discussion. 122-9 '23

Working of duralumin. Am Mach 62:253 F 5 '25

DURALYTE
Strength and lightness combined in duralyte. il Automotive Ind 53:88 Jl 16 '25

DURAND, William F.
Portrait. Power 60:925 D 9 '24

DURANT, William C.
Durant's spectacular effort to stage big comeback. B. C. Forbes. por Forbes 15:615-17+ F 15 '25

DURANT motors, inc.
Profit of $2,715,226 reported. Automotive Ind 50:792 Ap 3 '24

DURBAN, Natal, South Africa

Harbor

Dry dock at Congella. il diags map Engineering 119:438-42, 452, 497-501, pl 29 Ap 10, 24 '25

DUREX
Durex, a bearing material which holds oil like a sponge. diags Automotive Ind 50:1072-4 My 15 '24

DURIRON
Duriron: its real worth not widely appreciated yet. Brass W 20:21 Ja '24

Making pure nitric acid economically. A. Hough. il diag Chem & Met Eng 32:373-6 Mr '25

DURO pump and manufacturing company
Good fellowship congress, Dayton, Ohio, July 27-28. Dom Eng 112:45-6+ Ag 8 '25

DUROSIL
Durosil; a new glass for laboratory use, gas lighting, and domestic purposes. Gas J (Lond) 164:312 O 31 '23

DÜSSELDORF

Bridges

L'élargissement du pont-route sur le Rhin, à Düsseldorf. diags Génie Civil 87:21 Jl 4 '25

DUST
A-A dust determinator. M. Ingels. chart diag Am Soc Heat & V E J 31:5-21 Ja '25

Air we breathe; new types of apparatus for measuring the suspended dust in the atmosphere. J: B. C. Kershaw. il Sci Am 129:408 D '23

Calcium and tuberculosis; a thesis in hygiene comprehending the influence of an inspired dust on a specific infection of the lungs. M. S. Iszard. J Ind Hygiene 7: 505-30 [bibliog p. 529-30] N '25

Comparative tests of instruments for determining atmospheric dusts. 69p U.S. Bur. of mines, Washington, D.C. '25

Dust and grinding of metals. W. H. Gordon. Safety Eng 47:228-30, 295-7 My-Je '24

Dust discussed at meeting of American society of heating and ventilating engineers. Dom Eng 110:22-4 F 21 '25

Dust hazard in industry. W: E: Gibbs. 168p E. Benn, ltd., London; Van Nostrand, N.Y. '25

Dust hazard in the abrasive industry. W. I. Clark and E: B. Simmons. bibliog J Ind Hygiene 7:345-51 Ag '25; Excerpts. Iron Age 116:1029 O 15 '25

Effective method for conducting experiments on dust inhalation. C. K. Drinker, P. Drinker and K. R. Drinker. il J Ind Hygiene 7:440-3 O '25

House dust as a cause of asthmas. diag Nation's Health 7:628-9 S '25

How dusty is air? M. Ingels. Am Soc Heat & V E J 31:415-18 Ag '25

Improved form of the Drinker, Thomson, Fitchet dust sampler. P. Drinker and R. M. Thomson. bibliog il diags J Ind Hygiene 7: 352-7 Ag '25

Industrial ventilation in theory and practice. L. Greenburg. Nat Safety N 11:27-9 Mr '25

Method for sampling dust in alveolar air. R. M. Thomson. bibliog il J Ind Hygiene 7:385-90 S '25

Methods and apparatus for the determination of dust suspended in air. P. H. Warren and T. A. Read. J Ind Hygiene 5:sup198-200 F '24

Physical characteristics of road and of field dust. C. E. Summers. il Soc Auto Eng J 16:243-7 F '25; Excerpts. Automotive Ind 52:191-2 Ja 29 '25; Discussion. Soc Auto Eng J 16:140a-b, 630-2 F, Je '25

Production and measurement of air dustiness. M. Ingels. il diags Am Soc Heat & V E J 30:135-52 F '24

Protective mask for dusty work. il Nat Safety N 11:43 Mr '25

Relation of organic dust to pneumonokoniosis. H. R. M. Landis. J Ind Hygiene 7:1-5 Ja '25; Abstract. Monthly Labor R 20:615-16 Mr '25

Report on the grinding of metals and cleaning of castings with special reference to the effects of dust inhalation upon the workers. 100p Gt. Brit. Factory inspectors' office, London '23

Size-frequency and identification of certain phagocytosed dusts. P. Drinker. il J Ind Hygiene 7:305-16 [bibliog. p. 315-16] Jl '25

Studies on the industrial dust problem. L. Greenburg. 19p [bibliog. p. 17-19] U.S. Public health service, Washington '25

Über ein differential-ionometer und seine anwendung zur elektrischen messung des staubgehaltes der luft; abstract. H. Greinacher. diags Elektrotech Zeit 45:404 Ap 24 '24

DUST—*Continued*
Use of Owens' jet dust counter and of electric precipitation in the determination of dusts, fumes, and smokes in air. P. Drinker and R. M. Thompson. il diags Am Soc Heat & V E J 30:695-710 N '24

See also Coal dust; Dust removal; Flue dust; Mine dust; Rock dust; Street cleaning

DUST collectors. See Dust removal

DUST diseases. See Lungs—Dust diseases

DUST explosions
Aerosols in industry. W. E. Gibbs. Chem Age (Lond) 13:372-3 O 10 '25; Discussion. 13:395 O 17 '25
Dust explosion causes havoc in starch plant. il Safety Eng 47:32-3 Ja '24; Nat Safety N 9:12 F '24
Dust explosions in industrial plants. H. R. Brown. il Ind & Eng Chem 17:902-4 S '25
Dust explosions in the rubber industry. il India Rubber W 71:345 Mr '25
Dust explosions in the rubber industry. F. S. Hoxie. Rubber Age 16:121 N 25 '24
Explosion hazard in industry. R. Furness. Chem Age (Lond) 11:184-6 Ag 23 '24; Discussion. 11:206 Ag 30 '24
Explosions in industry checked. Am Ind 25: 14 D '24
Hazard of flammable dust shown in a recent explosion of aluminum powder. D: J. Price and R. M. Baker. il diags plans Chem & Met Eng 29:878-82 N 12 '23
Lignone dust explosion. P. W. Edwards. il diag plan Paper Tr J 78:47-9 Ja 17 '24
Lower limits of concentration for explosion of dusts in air. L. J. Trostel and H. W. Frevert. diags Chem & Met Eng 30:141-6 Ja 28 '24
National fire waste council and dust explosion prevention. P. W. Edwards. Econ W n s 27:528-9 Ap 12 '24; Same. Safety Eng 28: 4-6 Jl '24
Peculiar dust explosion in a spray drier used on milk. W: A. Noel. il diag Chem & Met Eng 31:223-5 Ag 11 '24
Preventing dust explosions by the use of flue gas. A. C. Gerlach. il diag Nat Safety N 12:13-14 Jl '25
Report of committee on dust-explosion hazards. Power 59:797-9 My 13 '24
Safety in grinding sulphur and hard rubber. H. W. Frevert. diag Chem & Met Eng 31: 894-6 D 8 '24
Starch dust explosion at Pekin, Illinois. D: J. Price. il diag plan W Soc E J 29:305-20 Ag '24
Starch dust explosion at Pekin, Illinois. D: J. Price, H. R. Brown and P. W. Edwards. il diags plan Chem & Met Eng 30:579-84 Ap 14 '24
Starch dust explosions. G. E. Chamberlain. Chem Age 32:95-7 F '24

See also Coal dust

DUST guards
Fibre as a material in making dust guards. il Ry R 76:1080 Je 13 '25
Journal box dust guard. il Ry Mech Eng 99: 529 Ag '25

DUST pans
Developing patterns for dust pans. diag Sheet Metal Worker 15:78 F 29 '24

DUST prevention
Dust elimination on gravel roads. B. C. Tiney. Munic & Co Eng 68:32-5 Ja '25; Same. Can Eng 48:211-12 F 10 '25; Same. Eng & Contr (R & S) 63:249-53 F 4 '25; Same. Eng N 94: 553-4 Ap 2 '25
Dust laying on surfaced roads in California thru use of hygroscopic salts. H. S. Comly. Eng N 94:398-400 Mr 5 '25; Same cond. Pub Works 56:84-5 Mr '25
Elimination of dust on gravel roads. B. C. Tiney. il Can Eng 49:359-62; Discussion. A. Fraser. 362-3 S 29 '25

DUST removal
Christensen tangential spray machine. Eng & Min J 120:392 S 5 '25
Disposing of cast iron chips and dust. il Am Mach 62:962-3 Je 18 '25
Dividends from air. W. B. Spooner, jr. il Factory 34:446-50+ Mr '25
Dry filter as a dust separator. E. V. Hill. il diag Sheet Metal Worker 15:743-5+, 826-7 O 24, N 21 '24
Dry filters in dust collection. il diags Sheet Metal Worker 16:685-7+ O 23 '25
Dust collecting system. B. E. Whitesell. il Am Cer Soc J (Bul) 7:77-82 Mr '24
Dust collection in cement mills. W. G. Clark. Concrete (cement mill sec) 26:25 F '25
Dust control in crushing plants important. G: E. Lynch. Eng & Min J 117:165-7 Ja 26 '24
Dust factor in factory ventilation. C: Bindrich. il diags Heat & Ven 20:64-5 D '23; Same. Textile World 64:3309-10+ D 1 '23; Same cond. Factory 31:814+ D '23
Dust removal in grain elevators. diags Sheet Metal Worker 15:424 Je 20 '24
Eliminating dust when pulverizing furnace brick. il Power 59:374 Mr 4 '24
Exhaust systems for granite cutters. il Sheet Metal Worker 15:1025-7+; 16:16+ Ja 30-F 13 '25
Fastening cyclone dust separators. F. H. Stebbins. il diags Sheet Metal Worker 16: 111-13 Mr 27 '25
Industrial ventilation as applied to harmful dusts, gases, and fumes. J: Roach. Monthly Labor R 21:6-12 Jl '25; Same. Safety Eng 50:52-6 Jl '25; Same. Nation's Health 7: 609-11 S '25
Meshless filters. Chem Age (Lond) 13:149 Ag 8 '25
Removing dust produced in industrial plants. C: L. Hubbard. il diags Ind Eng 83:320-6+, 366-72 Jl-Ag '25
Report on dust control in grain elevators. Nat Safety N 9:42 Ap '24
Sheet metal and fan work in one of Detroit's large auto body plants. il Sheet Metal Worker 14:944-7 Ja 4 '24
Some factors and principles involved in the separation and collection of dust, mist and fume from gases. E. Anderson. Am Inst Chem Eng Trans v 16 pt 1:69-86 '24
Stebbins portable chip trap for stone dust exhaust systems. diags Sheet Metal Worker 16:581 S 11 '25
Suggestions on exhausting stone dust. W. T. Wrightson. il diag Sheet Metal Worker 16: 189-90 Ap 24 '25
We take no chances with dust. il Factory 35: 198 Ag '25

See also Exhaust systems; Vacuum cleaning

DUST separators. See Dust removal

DUTCH East Indies
Growth of the Dutch East Indies. Am Ind 24: 38-9 N '23

See also Cotton trade—Dutch East Indies; Finance—Dutch East Indies; Sumatra

Commerce

Dutch East Indies trade. Engineering 118: 832 D 19 '24

Economic conditions

Economic situation of the Netherland East Indies. Elec R (Lond) 95:995-6 D 26 '24
Industrial future of the Dutch East Indies. Elec R (Lond) 94:34 Ja 4 '24

DUTCH GUIANA

See Mines and mineral resources—Dutch Guiana

DUTCH oven setting. See Boilers—Setting

DUTCHESS manufacturing company
Coaching our workers to meet 1924 labor costs. F. L. Sweetser. il System 45:172-4+ F '24
Why our labor costs are low. F. L. Sweetser. il System 44:733-6+ D '23

DU TREMBLEY engine. See Steam engines—Binary vapor engines

DWELLINGS

See Architecture, Domestic; Brick houses; Bungalows; Concrete houses; Cottages; Housing

DYADS

Tautomerism of dyads. E. H. Ingold. Chem Soc J 125:1528-37; 127:1199-1206 Jl '24, My '25

DYE analysis

Analysis of dye mixtures by means of titanous chloride. W. C. Holmes. Am Dyestuff Rep 14:415-18 Je 29 '25

Detection of natural dyes on the fibre. A. G. Whittaker. Textile Col 45:648-50, 698-701, 783-6 O-D '23

Evidence concerning the constitution of Guinea green B. H. Wales. Am Chem Soc J 46:2124-8 S '24

How to know the dyestuffs. A. Noll. Paper 35:136-7 N 13 '24

Identification of insoluble azo colours on the fibre, and of azo pigments in substance. F. M. Rowe and C. Levin. Soc Dyers & Col J 40:218-28 Jl '24; Abstract. Chem Age (Lond) 10:411 Ap 19 '24

Identification of phosphotungstic-basic dye lakes. W. C. Holmes. Am Dyestuff Rep 14: 481-2 Jl 27 '25

Identification of vat dyes on cotton. J. I. M. Jones and W. Kilby. Soc Dyers & Col J 41:127+ Ap '25

Quantitative estimation of colouring matters in dyebaths. P. Ruggli and A. Fischli. Soc Dyers & Col J 40:201 Je '24

Reduction products of azo dyes. W. C. Holmes. Am Dyestuff Rep 14:647-50, 686-7+, 732-3+, 753-4+ O 5-N 16 '25

Spectrophotometric analysis applied to chromotrope 10B. W. D. Appel and W. R. Brode. Ind & Eng Chem 16:797-9 Ag '24

Spectrophotometric identification of dyes. W. C. Holmes. Ind & Eng Chem 17:59-60, 918-19 Ja, S '25

See also Ultramarine blue

DYE factories

Causes of fire in dyestuff plants. W: D. Milne. Chem & Met Eng 30:388-90 Mr 10 '24

Dyestuffs and intermediates. Chem & Met Eng 31:66-8 Jl 14 '24

Glimpses of a modern dry color plant; new factory of the Corona chemical division of the Pittsburgh plate glass company at Milwaukee. il Chem & Met Eng 32:501-3 My '25

See also Dye manufacture

DYE houses. See Dyehouses

DYE industry

Annual meeting of the Synthetic organic chemical manufacturers association. Textile World 66:3576-9+ D 20 '24

Benzene and its lessons. H: E. Armstrong. Chem Age (Lond) 13:89 Jl 25 '25

Census of dyes and other synthetic organic chemicals, 1922. 185p U.S. Tariff commission, Washington '23

Dye and synthetic organic chemical industry. Manuf Rec 88:69-71 S 10 '25; Same. Oil Paint & Drug Rep 108:21+ S 7 '25

Dyestuffs and tanstuffs. Published in weekly numbers of Oil paint and drug reporter

Dyestuffs and tanstuffs: market review. Oil Paint & Drug Rep 105:61-2 Mr 20 '24

Dyestuffs and tanstuffs: market review. Oil Paint & Drug Rep 107:62-3 Mr 26 '25

Essential partnership of the chemical and dyeing industries. M. Muspratt. Soc Dyers & Col J 39:329-33; Discussion. 333-4 N '23

European dyestuff export trade. Color Tr J 14:82-3 Mr '24

Hard facts, and the proposed Anglo-German dye alliance. Am Dyestuff Rep 13:171-3 Mr 10 '24

Inside view of dyestuffs production. R. S. Horsfall. Chem Age (Lond) 11:412-13 O 25 '24

More variety in the dyestuff supply. L. W. Alwyn-Schmidt. Color Tr J 14:116-17 Ap '24

Some international aspects of the dyestuffs industry. W. E. Fearnsides. Soc Chem Ind J (Chem & Ind) 44:133-5 F 6 '25; Same cond. Soc Dyers & Col J 41:149-51 Ap '25

World struggle for the dye markets. R: W. Edmonds. Manuf Rec 86:83-4 S 25 '24

See also Coal-tar products; Dye factories

Advertising

Advertising American dyestuffs in foreign countries. A. T. Marks. Textile Col 46:629-30 O '24

Directories

List of the principal group names of commercial dyes and pigments with their classification as regards application and the manufacturer's address. C: E. Mullin. Textile Col 47:706-7 N '25 (to be cont)

Manufacturers of dyestuffs and intermediates during the world war. J. A. Branegan. Am Dyestuff Rep 13:464-6 Jl 14 '24

German reparation dyes

Reparation dyes. Textile Col 45:697 N '23

Reparations deliveries to be resumed by I. G. under agreement with French. Oil Paint & Drug Rep 104:19+ N 26 '23

History

Dyestuffs. W. J. U. Woolcock. Soc Chem Ind J 44:329-38 Jl 17 '25; Same cond. Soc Dyers & Col J 41:311-16 S '25; Excerpts. Chem Age (Lond) 13:56-9 Jl 18 '25; Same. Chemicals (Dyestuffs sec) 17:32-5 Ag 17 '25

Service

Dyestuff demonstrator—is he an asset? Am Dyestuff Rep 12:781-2, 847-50, 885-6, 917-18 O 22, N 19, D 3-17 '23

Statistics

Dye imports during 1923 compared with those in 1922, 1921, and 1914. Oil Paint & Drug Rep 105:56-7 Mr 20 '24

Dyes and dyestuffs. Bradstreet's 52:557 Ag 30 '24

Foreign dyestuff statistics. Textile Col 46: 160-1 Mr '24

International dye trade. Chemicals (Dyestuffs sec) 17:67-8 S 14 '25; Same. Am Dyestuffs Rep 14:632-3 S 21 '25

China

China dye market is in hands of Germany. Oil Paint & Drug Rep 107:34 Je 22 '25

Dye application in China. Woo Dong Chi. Am Dyestuff Rep 13:741-2+, 815-16+, 876-9 N 17, D 15-29 '24

Dye situation in North China. Chem & Met Eng 32:552 Je '25

France

French dyestuff production in 1924. Chemicals 23:6 Je 29 '25

French dyestuffs industry. F. B. Gorin. U S Bur For & Dom Com Trade Information Bul 253:1-21 '24; Abstract. Chem Age 32: 325-6 Ag '24

Germany

German dye export trade riddled. Chemicals 24:8-9 Ag 31 '25

German dye firms are soon to conclude merger. Oil Paint & Drug Rep 108:21 O 12 '25

German dye industry helped by Dawes plan. Oil Paint & Drug Rep 106:19 Ag 25 '24

German dyestuff industry in 1924. W: T. Daugherty. Textile Col 47:254 Ap '25

German dyestuffs industry. T: W. Delahanty. bibliog map U S Bur For & Dom Com misc ser 126:1-62 '24; Abstract. Oil Paint & Drug Rep 105:20+ Je 30 '24

Germans combine to sell dyes in Japan. Oil Paint & Drug Rep 106:19 O 13 '24

Germany's aniline dye industry. Chem Age (Lond) 13:148 Ag 8 '25

Imports and exports of American dyes for 1923 and 1924; with a chart of German dyestuff production for the past five years. Am Dyestuff Rep 14:141-3 Mr 9 '25

What the German dye cartel did in 1924. Chemicals (Dyestuffs sec) 17:43-4 Ag 17 '25

See also Dye industry—German reparation dyes

DYE industry—*Continued*

Great Britain

British colour users and dyestuff problems. Chem Age (Lond) 12:635-6; 13:8-10 Je 27-Jl 4 '25

British dyestuffs industry. F: E. Breithut. U S Bur For & Dom Com Trade Information Bul 231:1-30 '24; Excerpt. Chem & Met Eng 30:869-70 Je 2 '24; Abstract. Oil Paint & Drug Rep 105:19+ My 26 '24

British dyestuff industry as seen by a neutral. H. A. Prager. Chem Age (Lond) 11: 594-6, 620-1 D 13-20 '24

British dyestuffs industry. W. M. Gardner. Soc Dyers & Col J 40:202-4 Je '24

Chemical and dyestuffs traders' policy. Chem Age (Lond) 12:304-5 Mr 28 '25

Colour users' association annual meeting, Manchester. Chem Age (Lond) 11:90-1 Jl 26 '24; Soc Dyers & Col J 40:311-12 S '24

Confusion in the British dyestuff industry. Color Tr J 14:121-2 Ap '24

Contemplated agreement between the British dyestuffs corporation and the Chemische interessen gemeinschaft. W. J. Pope. Soc Chem Ind J (Chem & Ind) 43:514-15 My 16 '24

Developing our dyestuffs industry. flow sheet il Chem Age (Lond) 11:285-6 S 20 '24

Dyestuffs industry in 1923. W: Alexander. Chem Age (Lond) 9:707 D 29 '23

Experiments in protection. W. J. U. Woolcock. Soc Chem Ind J (Chem & Ind) 43: 1104-6 N 7 '24

Future of the British dyestuffs industry. G. G. Henderson. Chem Age (Lond) 10:382 Ap 12 '24

Parliament and the proposed dyestuffs agreement. Soc Dyers & Col J 40:245-6 Jl '24

Research situation a criterion of national stability. H. H. Hodgson. Soc Dyers & Col J 40:393-7; Discussion. 397-9 D '24

Some notes on dyestuffs progress in 1924. E: A. Brotherton. Chem Age (Lond) 12:5 Ja 3 '25

Some thoughts on the British dyestuff industry. H. Levinstein. Soc Dyers & Col J 40: 349-54 N '24; Same cond. Soc Chem Ind J (Chem & Ind) 43:1029-33 O 17 '24; Same. Chem Age (Lond) 11:364-7 O 11 '24; Discussion. Soc Dyers & Col J 40:254-7 N '24

Story of the British dyestuffs industry; how it was lost and has been recovered; abstract of pamphlet published by the British dyestuffs corporation. diag Chem Age (Lond) 11:256-7 S 13 '24

What British dyestuff firms are doing. Chem Age (Lond) 11:419-21 O 25 '24

See also British dyestuffs corporation

Greece

Greek dyestuffs situation. Am Ind 25:40-1 S '24

Italy

Italian dyestuffs industry. Soc Dyers & Col J 40:244 Jl '24

Italian dyestuffs industry. F: E. Breithut and J. A. Palmer. U S Bur For & Dom Com Trade Information Bul 234:1-11 '24; Excerpts. Oil Paint & Drug Rep 105:20 Je 9 '24

Japan

Japanese dyeing and the earthquake. H. Nishida. map Soc Dyers & Col J 40:80-1 Mr '24

Latin America

Present-day market conditions for American dyestuffs in Latin-America. A. T. Marks. Textile Col 45:765-6; 46:20-1 D '23-Ja '24

Russia

Dye industry in Russia. J. R. Minevitch. Oil Paint & Drug Rep 106:20 O 13 '24

Russian dye industry. Color Tr J 16:14 Ja '25

Spain

Dyestuffs industry in Spain. Soc Chem Ind J (Chem & Ind) 44:609 Je 12 '25

Switzerland

Swiss dyestuffs industry. F: E. Breithut. U S Bur For & Dom Com Trade Information Bul 175:1-16 '24

United States

American dye census. Color Tr J 15:78 S '24

American dye industry continues to progress. Textile World 65:971+ F 2 '24

American dye industry; post-war developments and new dye productions. Chem Age (Lond) 11:372-3 O 11 '24; Abstract. Soc Dyers & Col J 40:428-9 D '24

American dye quality vs. the German dye myth. D. G. Woolf. Textile World 67:871+ F 7 '25

American dyestuffs; reminiscently, autobiographically, and otherwise. G: A. Prochazka. Ind & Eng Chem 16:413-17 Ap '24

American progress in dye manufacture. C: H Herty. Ind & Eng Chem 16:1021-3 O '24; Excerpt. Textile World 67:2167+ Mr 28 '25

Brightening outlook for American dyes in 1924. Chem & Met Eng 30:87 Ja 21 '24

Building of a dye industry. W. F. Van Riper. Am Dyestuff Rep 13:367-8 Je 2 '24

Census of dyes and other synthetic organic chemicals, 1923. 198p U.S. Tariff commission, Washington '24

Co-operate—for profit and protection. Am Dyestuff Rep 13:831-2 D 15 '24

Do we need German dyes? value of chemical tests in buying. L: A. Olney. Am Dyestuff Rep 13:351-6 Je 2 '24

Domestic output of coal-tar dyes in 1923 reached record totals. Chem & Met Eng 30: 685 Ap 28 '24; Same. Oil Paint & Drug Rep 105:20+ Ap 28 '24

Dye imports through the port of New York, 1923. Chem & Met Eng 30:248 F 11 '24

Dye production in 1924 declined 28 percent from banner year 1923. Oil Paint & Drug Rep 107:21+ Ap 13 '25; Excerpt. Textile World 67:2673 Ap 18 '25; Abstract. Am Dyestuff Rep 14:247-8 Ap 20 '25

Dye progress in America reviewed. C: H. Stone. Textile World 67:3045 My 2 '25

Foreign dyes imported through the port of New York. Published monthly in American dyestuff reporter

Germany and our dyestuff industry. H. A. Metz. il Chem Age 33:39-42 F '25

Imports and exports of American dyes for 1923 and 1924; with a chart of German dyestuff production for the past five years. Am Dyestuff Rep 14:141-3 Mr 9 '25

Is there a future? L. W. Alwyn-Schmidt. Color Tr J 15:33-5 Ag '24

James traces dye development here and predicts supremacy over Germany. Chem & Met Eng 29:897-8 N 12 '23

Looking backward and looking forward. Color Tr J 16:8-10 Ja '25; Same. Chem Age (Lond) 12:77-8 Ja 24 '25

Present condition of the American dyestuff industry. A. T. Marks. Textile Col 46:233-5 Ap '24

Progress in the domestic manufacture of dyes and other synthetic organic chemicals during 1924. W. N. Watson. Ind & Eng Chem 17:1018-22 O '25

Record output of dyes in 1923. Textile World 65:2762 Ap 26 '24

Record production of dyes in United States during 1923; 93,667,524 pounds produced. Comm & Fin Chr 119:2030-1 N 1 '24

Record U.S. dye output in 1923; excerpts of U.S. Tariff commission 7th annual report. Textile World 66:1111+ Ag 30 '24; Oil Paint & Drug Rep 106:19 Ag 25 '24; Econ W n s 28:334-5 S 6 '24

Review of two years' practical experience with the American valuation plan. F. J. H. Kracke. Am Dyestuff Rep 13:846-7 D 29 '24

Some early attempts to establish the aniline industry in United States; abstracts. V: G. Bloede. Ind & Eng Chem 16:409-11 Ap '24; Soc Dyers & Col J 40:276-8 Ag '24

Summary of dye imports for 1924. Am Dyestuff Rep 14:77-8 F 9 '25

DYE industry—United States—*Continued*
Washington's relation to the dye industry prior to 1914. C: E. Munroe and A. M. Doyle. Ind & Eng Chem 16:417-19 Ap '24
See also Tariff—United States—Dyes

DYE intermediates
Aminoacetophenones as colour intermediates. G. T. Morgan and J: E. Moss. Soc Chem Ind J 42:461-3 D 7 '23
Coal-tar intermediates as accelerators in rubber vulcanizing. Color Tr J 14:54-6 F '24
Manufacture of beta-naphthol. R. N. Shreve. Color Tr J 14:42-7 F '24
New dyestuff intermediate of American invention; triphenylmethane compound. Color Tr J 16:70-1 Mr '25
Preparation of methyl-anthraquinone derivatives as intermediates for the vat dyes. Chemicals (Dyestuffs sec) 16:175+ My 25 '25
See also Carbazole; H-acid

DYE laboratories. See Dye research

DYE manufacture
Factory practice in manufacture of azo dyes. W: B. O'Brien. 176p Chemical pub. co. '24
Orange II. R. Sansone. il Color Tr J 15: 130-1 N '24
Preparation of ice colors for direct printing. A. Gotthardt. Am Dyestuff Rep 14:75-7 F 9 '25
See also Dye factories; Dyes and dyeing—Chemistry

DYE patents
Axo-resin dyes—a new form of oil soluble colors. Color Tr J 16:73-4 Mr '25
Dye-manufacturing processes. Chem & Met Eng 30:63 Ja 14 '24
Dyeing with aid of chloracetic acid. Color Tr J 14:202 Je '24
Dyestuff patents and dyestuff consumers. Textile Col 47:439 Jl '25
Grünhagen patents on acridine dyestuffs. Color Tr J 15:107-8 O '24
Interesting textile patents. J. M. Matthews. Textile World 68:499 Jl 25 '25
Manufacture of blue indanthrene dyes. A. Kranzlein and others. Chemicals (Dyestuffs sec) 17:61-2 S 14 '25
New chrome dyestuff from diaminobenzhydrol. Color Tr J 16:74 Mr '25
New dyes discovered by the National aniline and chemical company. Color Tr J 16:108-9 Ap '25
New dyestuffs of the triphenylmethane series. Color Tr J 15:136-7 N '24
New mordant dyestuffs from amino-oxycarboxylic acids combined with quinones. Color Tr J 16:72 Mr '25
New pyrazolone diazo dyes. Color Tr J 15: 108-9 O '24
New pyrazolone dyestuffs. Color Tr J 15:129; 16:7 N '24, Ja '25
New series of acid dyes for wool and silk produced by American research. A. W. Joyce. Color Tr J 15:74-5 S '24
Preparation of dyestuffs from ortho-xylylaldehyde. A: E. Craver. Color Tr J 14:12-14 Ja '24
Summary of patents for 1923. Am Dyestuff Rep 13:147-8 F 25 '24
Summary of patents for 1924. Am Dyestuff Rep 14:200-2 Mr 23 '25
Unusual black and violet dyes made from resinous substances. Color Tr J 16:42 F '25
See also Chemical foundation

DYE poisoning
Health conditions in the dye works. J. Woodman. Textile Col 47:437 Jl '25

DYE research
Amount and type of research an effective dyehouse system may include. H. S. Busby. Am Dyestuff Rep 13:317-21 My 19 '24
Basis of research for new dyestuffs. H. S. Busby. Textile Col 46:239-41 Ap '24
Dyestuff laboratory and the mill—past experience. P. S. Clarkson. Am Dyestuff Rep 13:817-19 D 15 '24
Justification of type-properties basic research on the current list of dyestuffs. H. S. Busby. Textile Col 46:639-40 O '24
Status of research in dye industry. Chem & Met Eng 29:1105 D 17 '23

DYE testing
Action of light on dyes applied to cotton fabrics. P. W. Cunliffe. Textile Inst J 15:T173-94 [bibliog. p. T192-4] Ap '24; Same. Am Dyestuff Rep 13:428-30+, 460-3, 489-94 Je 30-Jl 28 '24; Same abr. Soc Dyers & Col J 40: 268-76 Ag '24
Discussion of three forms of artificial light as a testing standard for determining fastness to light. H: S. Thayer. Am Dyestuff Rep 13: 136-7 F 25 '24
Distinguishing between acid and basic dyestuffs. Textile Col 47:516-17 Ag '25
Do we need German dyes? value of chemical tests in buying. L: A. Olney. Am Dyestuff Rep 13:351-6 Je 2 '24
Effect of ultra violet rays. P. Heermann. Textile World 67:4150+ Je 27 '25
Elimination of variables in the dyeing method of testing dyes. W: D. Appel. diags Am Dyestuff Rep 13:507-10 Ag 11 '24
Exact means to relative tabulation of various dye properties; the evolution and technique of properties-measurement. H. S. Busby. chart diags Textile Col 46:765-8 D '24
Fading lamps. O. R. Flynn. il Am Dyestuff Rep 12:837-43 N 19 '23
Fastness of colors to light and the action of metallic salts on this property. I. Ginsberg. Textile Col 46:710-12 N '24
Handy tests and useful kinks. C. F. Green. Textile Col 47:440-1 Jl '25
Influence of the sulpho groups on the shade and fastness of azo dyes. W. Menly. Soc Dyers & Col J 40:54-5 F '24
Methods for testing dyes used in tinting and coloring paper. G. K. Spence. Am Dyestuff Rep 12:899-902 D 17 '23
Methods of procedure, apparatus, and a system of physical analysis of coloring materials operating on a semi-automatic recording basis. H. S. Busby. diags Textile Col 47:153-6 Mr '25
New colour-testing lamp. Chem Age (Lond) 11:293 S 20 '24
Photography and dyestuff testing. T. T. Baker, L. F. Davidson and W. A. Balmain. diag Soc Dyers & Col J 41:267-70; Discussion. 270-1 Ag '25
Some of the properties to be measured on each dyestuff, and their significance. H. S. Busby. diags Textile Col 47:19-21 Ja '25
Testing colors for fastness to light. O. R. Flynn. Am Dyestuff Rep 13:155-7; Discussion. 157-60 Mr 10 '24
Testing dyes for impurities. C. F. Green. Textile Col 47:243 Ap '25
Testing for copper in after-treated dyeings. Textile Col 47:176-7 Mr '25
Testing of colors. I. Ginsberg. Am Dyestuff Rep 14:216-18 Ap 6 '25
Testing of fastness to washing or laundering of dyed material. Am Dyestuff Rep 14:225-6 Ap 6 '25
Testing the fastness of dyed colors to light. H. B. Gordon. il diag Am Dyestuff Rep 14: 488-92, 497-503 Jl 27 '25
Tests for blacks on cotton. C. F. Green. Textile Col 47:312-14 My '25
Textile fastness tests. Textile World 68:2311 O 17 '25
See also Dyes, Fastness of

Standards
Need of a standard for testing fastness to light of textiles and other colored materials. H: S. Thayer. Am Dyestuff Rep 12:866-8 D 3 '23
Standard fastness tests. Am Dyestuff Rep 12: 916-17 D 17 '23
Standard tests for fastness to acids and alkalies and selection of standards. Am Dyestuff Rep 14:9-10 Ja 12 '25
Standards for testing fastness properties of dyeings on cotton and wool. A. Kertess. Am Dyestuff Rep 14:385+ Je 15 '25; Excerpt. Soc Dyers & Col J 41:258 Jl '25

DYE vats
Copper dye beck. diag Textile Col 47:242 Ap '25

DYE workers
See Cleaners' and dyers' union of Greater New York

DYEHOUSES
Amount and type of research an effective dyehouse system may include. H. S. Busby. Am Dyestuff Rep 13:317-21 My 19 '24
Bigelow-Hartford Clinton plant. il Textile World 65:1429+ F 23 '24
Disposal of wastes from dyehouses and textile operations. A. O. True. Am Water Works Assn J 11:896-903 Jl '24
Dyehouse construction. F. P. Bascom. Am Dyestuff Rep 14:253-7; Discussion. 257-60 Ap 20 '25
Dyehouse design. A. W. Benoit. il Am Dyestuff Rep 13:360-6 Je 2 '24
Reconstruction of dye-house at a textile mill. il diags Eng N 94:524-6 Mr 26 '25
Removing steam from dye houses. il plans Sheet Metal Worker 16:375-7+ Je 19 '25
Textile mill mechanical department. Textile World 66:95+, 643+, 1284+ Jl 5, Ag 2, S 6 '24
Treatment of waste waters from dyeing processes. S. N. Brown. Soc Dyers & Col J 40: 144-7 My '24; Same. Am Dyestuff Rep 13:569-71 Ag 25 '24
Waste products of dye works. E. T. Ellis. Chemicals (Dyestuffs sec) 17:118 N 9 '25
See also Dye poisoning

Equipment
Individual electric drive versus individual steam drive. Textile Col 47:104-5 F '25
Iron in the dye house and bleachery. W. Sanderson. Textile Col 47:302-3 My '25
Standardization of textile mill lubrication. A. F. Brewer. Textile World 68:663+ Ag 1 '25
Unloading dye-tubs by air. il Textile Col 47: 655 O '25

Heating and ventilation
$10,000 a year saved by proper dye-house air conditions. C. E: Firth. il Textile Col 47:724-5 N '25
Vapor problem in the dye house. il Textile Col 47:579-80 S '25
Ventilation of dyehouses. C: L. Hubbard. diags Textile World 66:3297+ D 6 '24

Lighting
Lighting dye house and bleachery. A. K. Robertson. il Textile Col 47:90-3 F '25

Management
Betriebswirtschaft in färbereien. H. Thiesenhusen. Zeit Ver Deutsch Ing 69:124-6 Ja 31 '25
Care of drug room in dyehouses and bleacheries. J. M. Matthews. Chemicals (Dyestuffs sec) 16:181-3 Je 22 '25
Continuity in operations. Textile Col 47:105-6 F '25
Cutting steam waste in wet departments. M. G. Farrell. Textile World 67:71+ Ja 3 '25
Efficiency in a cotton piece goods dyehouse. W. W. Chase. plans Textile World 66:3719+ D 27 '24
Simplification in dyehouse practice through more rigid control of all elements. H. S. Busby. diags Am Dyestuff Rep 13:205-9 Ap 7 '24

DYEING machines
Brandwood beam dyeing machine and process. J. Brandwood. il Am Dyestuff Rep 12:878-80 D 3 '23
Circulation of dye liquor. il Textile Col 47: 307-8 My '25
Continuous dyeing machines. H. D. Arnold. il Textile World 65:235+ Ja 12 '24
Dye beck for silk piece goods. Textile Col 47:446 Jl '25
Dyeing machine for cops. diag Color Tr J 14: 197-8 Je '24
Dyeing machines for tops. I. Mitchell and G. H. Wordsworth. Soc Dyers & Col J 40:293 S '24
Dyeing tops and hanks—wool in form of sliver. il Textile Col 47:239 Ap '25
Efficiency in padding cotton piece goods. M. W. Alling. Am Dyestuff Rep 12:827-31 N 19 '23
Franklin machine for raw stock, shoddy or rags. diags Textile World 66:1711 S 27 '24
Giles machine for dyeing hosiery in which the dye liquor is circulated. diag Textile Col 47:580-1 S '25
Hosiery dyeing machines. H. S. Drum. Am Dyestuff Rep 13:90-3 F 11 '24
Improved machine for dyeing skein yarn. Color Tr J 13:200 D '23
Improvements in warp dyeing machines. H. M. Chase and G. W. Robertson. diag Color Tr J 15:94 S '24
Jig dyeing machines. R. Sansone. diags Textile World 66:2359+ O 25 '24
Liquid circulating dyeing machines. il Textile Col 47:654 O '25
Machine for random dyeing of yarns. Chemicals (Dyestuffs sec) 17:64 S 14 '25
Machine for random dyeing on knitting yarns. G: T. Thomayer. Color Tr J 15:61-2 Ag '24
Machine for treating hanks of yarn. S. S. Lord. diags Chemicals (Dyestuffs sec) 17: 65+ S 14 '25
Monel metal for dyeing, bleaching and finishing equipment. R. J. McKay and E. A. Turner. il Am Dyestuff Rep 13:54-62 Ja 28 '24
Multiple-unit dyeing machine. il Textile Col 47:656-7 O '25
New dye jigs manufactured by Finishing machines, inc. il Textile World 67:1517 F 28 '25
New form of cop dyeing machine; patent. diags Color Tr J 16:59-60 F '25
New form of skein dyeing machine. diag Color Tr J 15:93 S '24
New forms of dyeing apparatus. diags Color Tr J 16:41-2 F '25
One-pound Franklin as a raw-stock machine. J: H. Holton. il diags Am Dyestuff Rep 13: 568-9 Ag 25 '24
Paddle-wheel dyeing machine for hosiery. il Textile Col 47:241 Ap '25
Practical hints on the production of bright colors on textile fabrics. R. Sansone. diags Am Dyestuff Rep 13:218, 233-6, 498-9+, 564-5+, 653-6; 14:440-2 Ap 7, Jl 28, Ag 25, O 6 '24, Je 29 '25
Practical hints on the production of bright colors on textile fabrics; multiple beam dyeing machine. R. Sansone. Am Dyestuff Rep 14:93-5 F 9 '25
Randomtex dyeing machine. il Textile World 66:2381 O 25 '24
Rotary skein dyeing machines. il Textile Col 47:308-9 My '25
Rotary type dyeing machines using monel metal. il Color Tr J 13:215 D '23
Yarn dyeing apparatus; Thomayer patent. diags Chemicals (Dyestuffs sec) 17:37 Ag 17 '25

DYES, Fastness of
Action of light on dyes applied to cotton fabrics. P. W. Cunliffe. Textile Inst J 15:T173-94 [bibliog. p. T192-4] Ap '24; Same. Am Dyestuff Rep 13:428-30+, 460-3, 489-94 Je 30-Jl 28 '24; Same abr. Soc Dyers & Col J 40:268-76 Ag '24
After-treatment and fastness to light. Am Dyestuff Rep 14:667 O 5 '25
Alteration of dyed colors in light. Haller. Color Tr J 15:134-6 N '24
Bright green on cotton fast to light. Color Tr J 15:14-15 Jl '24
Chemical constitution and fastness of a dyestuff. F. Mayer. Am Dyestuff Rep 14:347-50 Je 1 '25
Coloured fabrics in the laundry. C. F. Townsend. Chem Age (Lond) 13:420 O 24 '25
Discussion of three forms of artificial light as a testing standard for determining fastness to light. H: S. Thayer. Am Dyestuff Rep 13:136-7 F 25 '24
Dyes fast against bleaching. W. R. McKennon. Textile Col 47:383-4 Je '25

DYES, Fastness of—*Continued*
Effect of light on dyed fabrics. R. Haller. Textile World 67:583+ Ja 31 '25
Fading lamps. O. R. Flynn. il Am Dyestuff Rep 12:837-43 N 19 '23
Fading of colored materials by daylight and artificial light. M. Luckiesh and A. H. Taylor. Am Dyestuff Rep 14:613-18+ S 21 '25
Fast and fugitive dyes. L. J. Matos. Textile World 68:1485+ S 12 '25
Fastness guarantees. F. D. Cheney. Am Dyestuff Rep 14:159-60 Mr 9 '25
Fastness of colors and printing fabrics. I. Ginsberg. Textile Col 47:434-6 Jl '25
Fastness of colors for printing fabrics. L. Lichtenstein. Am Dyestuff Rep 14:533-6 Ag 10 '25
Fastness of colors to light and the action of metallic salts on this property. I. Ginsberg. Textile Col 46:710-12 N '24
Fastness of dyes on cotton and wool; second public report of the Fastness committee of the German Chemiker verein. Textile World 68:2629+, 3221+ O 31, N 28 '25
Fastness of dyes to light. W. D. Bancroft. Am Dyestuff Rep 12:935-6+ D 31 '23
Macbeth artificial daylight and the fade-ometer. A. D. Lang. Soc Dyers & Col J 40: 40-4; Discussion. 44-5 F '24
More anent fastness guarantees. Am Dyestuff Rep 14:122-3 F 23 '25
New model fade-ometer of the Atlas electric devices co. il Textile World 68:2801 N 7 '25
Preliminary report of the sub-committee on light fastness. Am Dyestuff Rep 13:10-11 Ja 14 '24
Protective action of antioxidising agents against the effect of light on dyed fibres; abstract. P. Sisley. Soc Dyers & Col J 39:377 D '23
Report of sub-committee on fastness to perspiration. Am Dyestuff Rep 13:15-16 Ja 14 '24
Report of the sub-committee on light fastness. Am Dyestuff Rep 14:58-9 Ja 26 '25
Standard fastness tests. Am Dyestuff Rep 12: 916-17 D 17 '23
Standard tests for fastness to acids and alkalies and selection of standards. Am Dyestuff Rep 14:9-10 Ja 12 '25
Testing colored material for fastness to light. H. S. Thayer. il Illum Eng Soc 19:336-48; Discussion. 348-50 Ap '24
Testing colors for fastness to light. O. R. Flynn. Am Dyestuff Rep 13:155-7; Discussion. 157-60 Mr 10 '24
Testing of colors. I. Ginsberg. Am Dyestuff Rep 14:216-18 Ap 6 '25
Testing the fastness of dyed colors to light. H. B. Gordon. il diag Am Dyestuff Rep 14:488-92, 497-503 Jl 27 '25
Tests of fastness. Textile Col 47:587-8 S '25

DYES and dyeing
Abstracts of papers presented before the Dye division of the American chemical society. Color Tr J 14:154-7 My '24
Adsorption of dyes by soils. J. A. Wilkinson and W. Hoff. J Phys Chem 29:808-15 Jl '25
American dyestuffs; reminiscently, autobiographically, and otherwise. G: A. Prochazka. Ind & Eng Chem 16:413-17 Ap '24
Application of dyes to textile fibres and fabrics. J. Thorpe. Textile Inst J 14:P227-35 O '23; Same. Color Tr J 14:29-34 Ja '24; Abstract. Chem Age (Lond) 9:450-1 O 27 '23; Discussion. Textile Inst J 14:P235 O '23
Central temperature control at Hamilton co. E. D. Fowle. il Textile World 66:3113+ N 29 '24
Chats with the dyer's assistant; the art of dyeing growing in prestige. J. M. Matthews. Color Tr J 16:141-3 My '25
Color in relation to dyeing. J. M. Matthews. diags Color Tr J 10:183-8, 229-35; 11:47-50, 187-91; 12:12-15, 47-9, 151-4, 237-9; 13:1-4, 80-3, 113-15, 153-6; 14:4-6, 173-6; 15:138-41 My-Je, Ag, N '22, Ja-F, Ap, Je-Jl, S-N '23, Ja, Je-N '24
Colour solvents and their application to textile fibres. A. E. Woodhead. Soc Dyers & Col J 40:74-7; Discussion. 77 Mr '24
Coloring and sizing of ribbons. I. Ginsberg. Textile Col 47:571-3 S '25
Colours, stains and dyes. J. Thorpe. Chem Age (Lond) 10:410-11 Ap 19 '24
Common salt in the dyehouse. Color Tr J 16: 50-1 F '25
Concentration of dye baths. Textile World 67:3869 Je 13 '25
Control of hydrosulphite vats. A. Lauterbach. Am Dyestuff Rep 14:457-62 Jl 13 '25
Differences in dyeing of cotton, flax and hemp; abstract. R. Bartunek. Soc Dyers & Col J 40:240 Jl '24
Dye application in China. Woo Dong Chi. Am Dyestuff Rep 13:741-2+, 815-16+, 876-9 N 17, D 15-29 '24
Dye tables. Soc Dyers & Col J 41:128-35 Ap '25
Dyeing and cleaning. C. Eastman. Soc Dyers & Col J 41:280-3 Ag '25
Dyeing apparatus for treating fibrous materials in skeins. diag Chemicals (Dyestuffs sec) 16:185-6 Je 22 '25
Dyeing knitted fabrics. H. C. Roberts. Textile World 64:3139+ N '23
Dyeing of hosiery. E. H. Killheffer. Am Dyestuff Rep 13:245-6 Ap 21 '24; Same. Textile World 65:2505 Ap 12 '24
Dyeing of knitted goods. Am Dyestuff Rep 14:277 Ap 20 '25
Dyeing of paper, textile fabrics and similar material. M. Scholz. Chemicals (Dyestuffs sec) 16:190 Je 22 '25
Dyeing of textile fabrics with chrome dyestuffs. I. Ginsberg. Am Dyestuff Rep 13: 284-6 My 5 '24
Dyeing of three fiber hosiery. J. S. Unterweiser. Am Dyestuff Rep 14:28-9; Discussion. 29-30 Ja 12 '25
Dyeing theory and dyeing artificial silks. W. F. Edwards. Textile World 66:1013+ Ag 23 '24
Dyestuff tables. Am Dyestuff Rep 13:153-4+, 195-7, 237-8, 274-5+, 302-3, 326-7+, 374-5+, 404-5+, 440-1+, 476-7+, 500-1+, 534-5+, 566-7+, 602-3+, 630-1+, 658-9+, 696-7, 730-1, 768-9, 806-8; 14:5-6, 68-70, 96-7+, 126-7+, 162-3+, 232-3+, 264-5+, 304-5+, 372-3+, 438-9+, 474-5+, 508-9+, 544-5+, 572-3+, 606-7+, 634-5+, 674-5+, 706-7+, 734-5+ Mr 10-D 1 '24, Ja 12-Mr 9, Ap 6-My 4, Je 1, 29-N 2 '25
Effect of hard water in union dyeing. H. C. Roberts. il Textile World 68:1161+ Ag 29 '25
Faults which affect beam dyeing. H. D. Martin. Textile Col 46:165-6 Mr '24
Franklin process method of dyeing—a description and discussion. W. H. Wingate. Am Dyestuff Rep 14:222-4 Ap 6 '25
Further notes on the science of dyeing. H: F. Herrmann. Am Dyestuff Rep 14:659-62 O 5 '25
Hosiery dyeing and its problems. R: C. Spurgeon. Am Dyestuff Rep 13:87-90 F 11 '24
Indigosol O and other indigosol colors. C: Schreiner and F. Peterhouser. Am Dyestuff Rep 14:25-8 Ja 12 '25
Iron and chromium on cotton or wool. W. B. Nelson. Am Dyestuff Rep 14:164-8 Mr 9 '25
Journal of a hosiery dyer. Am Dyestuff Rep 13:356+, 406-7, 442, 480, 502-3, 533-4 Je 2-Ag 11 '24
Modern methods of dyeing. A. G. Green. Soc Dyers & Col J 40:323-30 O '24; Same abr. Color Tr J 16:12-14 Ja '25
Multi-color effects on hosiery. J. H. Zens. Am Dyestuff Rep 14:562-3 Ag 24 '25; Same. Textile World 68:485 Jl 25 '25
New German dyestuffs and color cards. Color Tr J 15:35-7 Ag '24
New investigations in the dyeing process. R. Haller. Am Dyestuff Rep 14:575-6 Ag 24 '25
Nitre cake for bleaching and dyeing. A. B. Norton. Textile Col 45:631-3, 706-11, 771 O-D '23
Peculiarities in dyeing due to fiber structure. J. M. Matthews. Color Tr J 14:93-7 Mr '24
Place of measured dye properties in the general textile manufacturing problem. H. S. Busby. Textile Col 46:695-8 N '24

DYES and dyeing—*Continued*
Practical hints on the production of bright colors on textile fabrics. R. Sansone. il Am Dyestuff Rep 13:101-6, 218, 233-6, 276-8, 328-30+, 498-9+, 524-8, 564-5+, 653-6, 797-9 F 11, Ap 7-21, My 19, Jl 28-Ag 25, O 6, D 1 '24
Process for dyeing textile material. M. Scholz. Chemicals (Dyestuffs sec) 17:36 Ag 17 '25
Science of dyeing. H: F. Herrmann. Am Dyestuff Rep 13:819-23; Discussion. 823-6 D 15 '24
Selection and control of most suitable dyes for production of recurrent colors. H. S. Busby. Am Dyestuff Rep 13:113-16 F 25 '24
Several dyes in one dye bath. Textile Col 47:450 Jl '25
Size of dye particles in dyeing. C. F. Green. Textile Col 47:184 Mr '25
Soft and hard water scouring. H. C. Roberts. Textile World 68:495+ Jl 25 '25
Softening of water for bleaching and dyeing. W: S. Chester. Textile Col 45:767-70; 46:89-91, 294-7, 434-6, 631-4 D '23, F, My, Jl, O '24
Soledon jade green. Am Dyestuff Rep 14: 246-7 Ap 20 '25
Staining and dyeing. J. F. Thorpe. Soc Dyers & Col J 40:174-9 Je '24
Stripping hosiery with hydrosulphites and sulphoxalates. A. R. Thompson. Am Dyestuff Rep 13:368-9 Je 2 '24
Surveys of recent progress in the dyeing, printing and allied industries. F. M. Rowe. Soc Dyers & Col J 40:360-73 N '24
Temperature control in the dye house and bleachery. B. F. Wadsworth. Textile Col 45: 103-6, 171-4+, 239-42, 307-10, 375-8, 511-15, 644-7, 787-92; 46:171-5 F-Je, Ag, O, D '23, Mr '24
Temperature time control in the dyehouse. diag Chemicals (Dyestuffs sec) 17:89-90 O 12 '25
Tendency of modern dyeing methods. Color Tr J 15:164-6 D '24
Tracing defective colored work to its source. H. D. Martin. Textile Col 46:83-4 F '24
Use of mineral pigment in dyeing. J. M. Matthews. Color Tr J 14:37-41 F '24
Water a dominating factor in the dyeing and cleaning industry. J. M. Matthews. Color Tr J 15:95-8 O '24

See also Alizarine; Aminophenols; Aniline; Aniline black; Anthraquinone; Aurin; Batik; Black; Bleaching; Blue; Brown; Calico printing; Carbazole; Catechol; Coal-tar colors; Coal-tar products; Color in the textile industry; Color matching; Coloring matter; Cutch; Desizing (textiles); Dicyanines; Dye analysis; Dye factories; Dye industry; Dye intermediates; Dye manufacture; Dye patents; Dye testing; Dyeing machines; Dyes, Fastness of; Fluorescein; Fustic; Hair—Dyeing and bleaching; Hydron blue; Indigo; Ionamines; Katanol; Logwood; Methylene blue; Morindone; Napthol AS; Napthols; Paranitraniline red; Pechmann dyes; Red; Rhodamine; Sulfur black; Textile printing; Thiazoles; Triphenylmethane

Analysis

See Dye analysis

Bibliography

Introduction to the literature of chemistry for senior students and research chemists. F. A. Mason. 41p Oxford '25
Your technical library; a compilation of the most useful books on dyeing, bleaching, finishing, sizing, printing, textile chemistry and dye chemistry, with brief descriptions and contents of each. Am Dyestuff Rep 13: 381-4, 415-18 Je 2-16 '24

Celluloid

Dyeing of celluloid. J. F. Springer. Textile Col 45:101-2, 291-3, 372-4, 450-2, 528-9, 711-14; 46:40-1, 166-70 F, My-Ag, N '23, Ja, Mr '24

Chemistry

Absorption spectra of certain derivatives of para-cymene. W. C. Holmes. Am Chem Soc J 46:631-5 Mr '24
Alkaline hydrolysis of indigoid dyestuffs. P. Friedländer and L. Sander. Soc Dyers & Col J 40:185 Je '24
Ammonia and ammonium salts in bleaching and dyeing. A. J. Hall. Am Dyestuff Rep 12:908-10+ D 17 '23
Azo dyes from alkaloids of ipecac root and their identification by means of the spectroscope. S. Palkin and H. Wales. Am Chem Soc J 47:2005-10 Jl '25
Behaviour of hydrated aluminium oxide towards dyestuffs. J. K. Wood and A. Wooller. Soc Dyers & Col J 41:47-53 F '25
Behaviour of the sulphides of sodium in aqueous and alcoholic media. H. H. Hodgson. Soc Dyers & Col J 41:241-4 Jl '25
Behaviour of wool as an amphoteric colloid; a contribution to the theory of dyeing. J. B. Speakman. Soc Dyers & Col J 40:408-11; 41: 172-9 D '24, My '25
Benzene in its relation to the azo dyestuffs. W. B. Nelson. Am Dyestuff Rep 13:392-6+ Je 16 '24
Chemical constitution and fastness of a dyestuff. F. Mayer. Am Dyestuff Rep 14:347-50 Je 1 '25
Chemical constitution and properties of azo dyestuffs. A. Schedler. Soc Chem Ind J 44: 392-400 Jl 31 '25; Abstract. Chem Age (Lond) 12:247 Mr 14 '25
Chemical theory of dyeing. M. Fort. Soc Dyers & Col J 41:279-80 Ag '25
Chemie der organischen farbstoffe. F. Mayer. 2d ed., rev. 265p [bibliog. p. 248-50] J. Springer, Berlin '24
Chemische technologie der organischen farbstoffe. E. Ristenpart. 2d ed., enl. 299p J. A. Barth, Leipzig '25
Chemistry and colour. Soc Chem Ind J (Chem & Ind) 44:628-30 Je 19 '25
Chemistry of furfural; the preparation of the furan analog of benzoflavin or dimethyldiamino-furyl-acridine hydrochloride. S. A. Mahood and C. R. Harris. Am Chem Soc J 46:2810-13 D '24
Chlorination of 2-amino-para-xylene and certain new azo dyes. A. S. Wheeler and M. Morse. Am Chem Soc J 46:2572-6 N '24
Chromium compounds of azo dyes. Color Tr J 16:6-7 Ja '25
Colloidal properties of dyes. G. Heyl. Color Tr J 13:130-3; 14:47-9, 149-51; 15:4-6 [bibliog p. 6] D '23, F, My, Jl '24
Color and constitution. M. L. Crossley and P. V. Resenvelt. Ind & Eng Chem 16:271-3 Mr '24
Color lakes. Am Dyestuff Rep 14:574-5 Ag 24 '25
Les colorants monoazoiques de l'acide. J. M. Battegay and A. Wolff. Chimie & Ind 10: 1013-14 D '23
Composition of some products used for the production of insoluble azo colours. F. M. Rowe and S. G. Corbishley. Soc Dyers & Col J 41:278-9 Ag '25
Condensation of benzoic acid and substituted benzoic acids with resacetophenone. G. C. Chakravarti. Am Chem Soc J 46:682-5 Mr '24
Condensation of the isomeric tolyl-2-thio-4-keto-thiazolidines (rhodanic acids) with substituted vanillins. R. M. Hann. Am Chem Soc J 47:1998-2002 Jl '25
Co-ordination theory in its application to the study of mordant dyes. G. T. Morgan and J. D. Main Smith. Soc Dyers & Col J 41: 233-40; Discussion. 240-1 Jl '25
Cyanine dyes; a new method of formation of the carbocyanines; the constitution of the thio*iso*cyanines and of kryptocyanine. W: H. Mills and W. T. K. Braunholtz. Chem Soc J 123:2804-13 N '23
Cyanine dyes; synthesis of a 2:4'-carbocyanine—constitution of the dicyanines. W: H. Mills and R. C. Odams. Chem Soc J 125:1913-21 S '24
Development of ice colors. R. E. Rose. Am Dyestuff Rep 14:17-21 Ja 12 '25

DYES and dyeing—Chemistry—*Continued*
Diazo derivatives of aminoazo compounds. K. Heusner and M. Simon. Chemicals (Dyestuffs sec) 17:120 N 9 '25
Dyeing by colloidal solubilization. G. H. Ellis. Textile World 66:3115+, 3321+ N 29-D 6 '24
Dyes derived from acenaphthenequinone. A. C. Sircar and S. K. Guha. Chem Soc J 125:335-40 F '24
Dyes derived from carbazole and thiodiphenylamine. S. Dutt. Chem Soc J 125:802-7 Ap '24; Abstract. Soc Dyers & Col J 40:264-5 Ag '24
Dyes derived from phenanthraquinone; anilinoflavindulines and phenanthraquinoneazodyes. A. C. Sircar and D. C. Roy. Chem Soc J 125:543-7 Mr '24
Dyes for lakes (National aniline & chemical co.). Color Tr J 14:52 F '24
Dyes of the aurin type. H. Baines and J: E. Driver. Chem Soc J 125:907-8 Ap '24
Effect of sulfur on the color of triphenylmethane dyes. H. S. Holt and E. E. Reid. Am Chem Soc J 46:2329-33 O '24
Formation of azoaniline-sulphonic acids. W. Lewcock. Soc Chem Ind J 44:152-5 Ap 3 '25
Hydrogenation in the naphthalene series; the properties of derived azo dyes. F. M. Rowe and V. J. Tarbett. Soc Dyers & Col J 41:5-8; Discussion. 8-10 Ja '25
Importance of heterocyclic systems in dyestuff chemistry. C. Hollins. Chem Age (Lond) 11:416-18 O 25 '24
Influence of constitutional variation in dyes upon their relative absorption in aqueous and alcoholic solutions. W. C. Holmes. Am Chem Soc J 46:2118-24 S '24
Influence of sulfur on the color of azo dyes; further investigations. D. G. Foster and E. E. Reid. Am Chem Soc J 46:1936-48 Ag '24
Influence of variation in concentration on the absorption spectra of dye solutions. W. C. Holmes. Ind & Eng Chem 16:35-40 Ja '24
N-phenyl-tetrahydro-para-oxazine and a new triphenylmethane dye. H. Adkins and R. M. Simington. Am Chem Soc J 47:1687-9 Je '25
New dyestuffs derived from amino-hydroquinone ethers and oxy-naphthoic acid. Color Tr J 16:10-12 Ja '25
New dyestuffs for dyeing wool and preparing pigments. Color Tr J 15:163 D '24
New insoluble azo dyes for preparation of color lakes and direct development on the fiber. Color Tr J 15:167-70 D '24
Optically active dyes; adsorption, absorption spectra and rotation. W. R. Brode and R. Adams. Am Chem Soc J 46:2032-43 S '24
Oxidation products of aminoazo colours; abstract. F. Binder. Soc Dyers & Col J 41: 341 O '25
Oxidizing agents in dyeing aniline black. A. J. Hall. diag Textile Col 45:695-7 N '23
Para-cymene studies; the bromination of 2-amino-para-cymene and certain new azo dyes. A. S. Wheeler and H. M. Taylor. Am Chem Soc J 47:178-84 Ja '25
Part which naphthalene plays in the azo and other dyestuffs. W. B. Nelson. Am Dyestuff Rep 13:485-8+ Jl 28 '24
Physical chemistry of dyeing; substantive dyes. T. R. Briggs. J Phys Chem 28:368-86 Ap '24; Abstract. Soc Dyers & Col J 40: 190-1 Je '24
Preparation of derivatives of acridine. Chem Soc J 124 pt 1:1130-3 N '23
Progress of research in the ionamine dyestuffs; abstracts. A. G. Green and K. H. Saunders. Chem Age (Lond) 10:140 F 9 '24; Soc Chem Ind J (Chem & Ind) 43:145 F 8 '24; Soc Dyers & Col J 40:138-41 My '24
Recent advances in the ice colour series. K. H. Saunders. Soc Dyers & Col J 40:47-9 F '24
Reduction of certain vat dyes by means of alkaline sodium hydrosulfite. J: H. Yoe. J Phys Chem 28:1211-17 N '24
Reduction products of azo dyes. W. C. Holmes. Am Dyestuff Rep 14:647-50, 686-7+, 732-3+, 753-4+ O 5-N 16 '25
Researches on chromammines; salts of nitro- and other dyes. H. J. S. King. Chem Soc J 125:1329-37 Je '24
Researches on residual affinity and co-ordination; chromic and cobaltic lakes of mordant azo-dyes. G. T. Morgan and J. D. Main Smith. Chem Soc J 125:1731-9 S '24
Researches on thiazoles; a new group of dyes from poison gases through the 2-aminothiazoles as intermediates—the preparation of thiazole dyes of Doebner violet type. M. T. Bogert and M. Chertcoff. Am Chem Soc J 46:2864-71 D '24
Researches on thiazoles; the constitution of Columbia yellow (chloramine yellow) and the synthesis of some related compounds. M. T. Bogert and F. H. Bergeim. Color Tr J 15:63-8 S '24
Some colour problems. H. E. Armstrong. Soc Dyers & Col J 41:161-5 My '25
Stereoisomeric azo-dyes. G. T. Morgan and D. G: Skinner. Chem Soc J 127:1731-42 Jl '25
Studies in dyes with multiple chromophores. R. N. Sen and B. Sett. Am Chem Soc J 46:111-19 Ja '24
Study of certain derivatives of para cymene, with special reference to possibilities of utilization. R. E. Sargent and F: W. Hibbard. Textile Col 47:561-5 S '25
Study of dihydroxydiphenyl with special reference to the synthesis of azo dyes. A. I. Anderson and R. Babigan. Textile Col 46: 494-6 Ag '24
Sulphur; a colour producing element. G. T. Morgan. Chem Age (Lond) 12:81 Ja 24 '25; Same. Soc Chem Ind J (Chem & Ind) 44:82 Ja 23 '25
Sulfur dyes from carbazole derivatives. E. Cagliostro. Color Tr J 14:117-18 Ap '24
Sulphonated oils. S. N. Brown. Am Dyestuff Rep 13:357-8 Je 2 '24
Synthesis of 5:5′-dibromo-6:6′-dimethoxy-2:2′-bisoxythionaphthen. R. H. Griffith and E: Hope. Chem Soc J 127:990-5 My '25
Theory of color production. J. Stieglitz. bibliog J Fr Inst 200:35-49 Jl '25
$3^1,3^2,3^3$-trimethyl-aurin (ortho-cresaurin) and $3^1,3^2,3^3$-trimethyl-N^1,N^2,N^3-triphenyl - para-rosaniline (triphenyl-ros-ortho-toluidine). M. Gomberg and L. C. Anderson. Am Chem Soc J 47:2022-33 Jl '25

See also American chemical society—Dye division

Classification

Properties-basis of classifying dyestuffs; their grouping in alignment with physical properties. H. S. Busby. Textile Col 46:559-61 S '24

Cotton

Absorption of methylene-blue by cotton; effect of bleaching. C. Birtwell, D. A. Clibbens and B. P. Ridge. diag Textile Inst J 14:T297-313 S '23; Abstract. Soc Dyers & Col J 39: 347-8 N '23
Action of light on dyes applied to cotton fabrics. P. W. Cunliffe. Textile Inst J 15:T173-94 [bibliog. p. T192-4] Ap '24; Same. Am Dyestuff Rep 13:428-30+, 460-3, 489-94 Je 30-Jl 28 '24; Same abr. Soc Dyers & Col J 40: 268-76 Ag '24
Adhesives in dyeing cotton and in making it waterproof. W. B. Nelson. diags Am Dyestuff Rep 14:585-7 S 7 '25
Aftertreatments for sulphide colors. J. R. Wilson. Textile Col 46:777-8 D '24
After-treatments with azophor red and azophor orange MN. W. J. Chester. Textile Col 47:374 Je '25
Anomalous adsorption of dyes by wool and cotton. J: B. Speakman and A. E. Battye. Textile Inst J 16:T53-60 F '25; Same. Color Tr J 16:102-5 Ap '25
Applying paranitraniline red. J. S. Heuthwaite. Textile World 64:3025+, 3830+ N 17, D 29 '23
Basic dyes on cotton. Textile Col 47:646-7 O '25
Bleaching and dyeing of cotton goods by the Thies method. E. Schmidt. Am Dyestuff Rep 13:708-11+ N 3 '24

DYES and dyeing—Cotton—*Continued*
Bleaching and dyeing of towelings. I. Ginsberg. Textile Col 47:701-2 N '25
Blue cotton dyestuff discovered by Du Pont's research department. Color Tr J 16:75 Mr '25
Bucking dyed goods. I. Ginsberg. Textile Col 47:165-7 Mr '25
Chats with the textile chemist. J. M. Matthews. Textile World 68:2633-4+ O 31 '25
Comparison of the shade of cottons of different growths when dyed together in the same bath. D. A. Clibbens and B. P. Ridge. Textile Inst J 16:T305-10 O '25
Cotton dye developments during 1924. chart O. R. Flynn. Textile World 67:1053+ F 7 '25
Cotton dyes fast against perspiration. W. Sanderson. Textile Col 47:430 Jl '25
Developing diazotized colors with betanaphthol. Textile Col 47:451-2 Jl '25
Direct grays on cotton fabrics. W. S. Wilkins. Textile Col 47:251 Ap '25
Dye application in China. Woo Dong Chi. Am Dyestuff Rep 13:741-2+, 815-16+ N 17, D 15 '24
Dyeing and finishing cotton piece goods. H. S. Travis. diags Am Dyestuff Rep 13:421-3 Je 30 '24
Dyeing and mercerization. W. J. Wilson. Textile Col 47:510 Ag '25
Dyeing cotton piece goods with hydron blue. I. Ginsberg. Am Dyestuff Rep 13:119-20+ F 25 '24
Dyeing cotton warps. Textile Col 47:585-7 S '25
Dyeing loose cotton and cotton yarn with paranitraniline red. Textile Col 47:718-19 N '25
Dyeing of cotton and artificial silk. E. Clayton. Soc Dyers & Col J 41:102-7 Mr '25
Dyeing of cotton knitgoods. J. M. Matthews. Color Tr J 15:125-8 N '24
Dyeing of cotton piece-goods in the jig. L: J. Matos. Color Tr J 14:86-7 Mr '24; Same. Textile World 66:1123+ Ag 30 '24
Dyeing of cotton piece-goods with acid coloring matters. J. M. Matthews. Color Tr J 16:61-4, 123-6 Mr, My '25
Dyeing of cotton skein yarn. L: J. Matos. Am Dyestuff Rep 14:667 O 5 '25
Dyeing of cotton warps. M. N. Conklin. Color Tr J 16:55 F '25
Dyeing of hosiery. M. N. Conklin. Color Tr J 14:84-6; 15:17-19 Mr, Jl '24
Dyeing of olive drab; with discussion. A. A. Claflin. Am Dyestuff Rep 12:941-4+ D 31 '23
Dyeing of vat colors. G. O. Mitchell. Color Tr J 16:143-7; Discussion. 147 My '25
Dyeings on the cotton fibre; patent. J. Y. Johnson. Soc Dyers & Col J 40:424 D '24
Efficiency in a cotton piece goods dyehouse. W. W. Chase. plans Textile World 66:3719+ D 27 '24
Efficiency in padding cotton piece goods. M. W. Alling. Am Dyestuff Rep 12:827-31 N 19 '23
Fast dyes for mercerized cotton yarn. Color Tr J 13:200 D '23
Fastness of dyes on cotton and wool; second public report of the Fastness committee of the German Chemiker verein. Textile World 68:2629+, 3221+ O 31, N 28 '25
Forty years of direct cotton dyes. Textile Col 47:304-5 My '25
Impregnating cotton with tannin for logwood dyeing. W. R. McKennon. Textile Col 47:638-9, 703-4+ O-N '25
Indigo blue fast to bleaching. Am Dyestuff Rep 14:98-9 F 9 '25
Methods of dyeing cotton piece-goods. J. M. Matthews. Color Tr J 16:1-4 Ja '25
Modern applications of logwood to cotton. J. R. Spencer. Textile Col 46:502-5, 649-53, 702-3 Ag, O-N '24
New black azo dyestuffs for cotton. Color Tr J 14:14-16 Ja '24
New colors on cotton from naphthol AS. Color Tr J 14:56 F '24
New dyestuffs derived from amino-hydroquinone ethers and oxy-naphthoic acid. Color Tr J 16:10-12 Ja '25
New insoluble azo dyes for preparation of color lakes and direct development on the fiber. Color Tr J 15:167-70 D '24
New khaki-coloring process. diag Am Dyestuff Rep 14:33-4 Ja 12 '25
New method of random dyeing on knitting yarns. E: Allen. Color Tr J 15:93 S '24
New thioindigo vat dye. Color Tr J 15:69 S '24
Newest wrinkles in cotton dyeing. J. M. Matthews. Chemicals (Dyestuffs sec) 17:1-3 Jl 20 '25
Notes on level dyeing and penetration of cotton fabrics. L: J. Matos. Color Tr J 15:45-6 Ag '24
Notes on the dyeing of cotton stockings. Color Tr J 16:110 O '24
Practical hints on the production of bright colors on textile fabrics. R. Sansone. il Am Dyestuff Rep 14:93-5, 124-6, 234-7, 271-3, 374-6, 440-2, 469-71, 536-40, 596-600, 628-30 F 9-23, Ap 6-20, Je 1, 29-Jl 13, Ag 10, S 7-21 '25
Primuline and vat colors for the production of fast khaki shades. J. S. Unterweiser. Am Dyestuff Rep 13:160-1; Discussion. 161-3 Mr 10 '24
Producing dyed shades fast to bleaching. Am Dyestuff Rep 14:665-6 O 5 '25
Producing transparent effects on cotton fabrics. Textile World 68:501 Jl 25 '25
Progress in cotton dyes in 1923. O. R. Flynn. Textile World 65:973+ F 2 '24
Recent developments in the chemistry of the cotton fibre. G. Tagliani. Soc Dyers & Col J 41:165-8 My '25; Same. Am Dyestuff Rep 14:593-6 S 7 '25; Same abr. Textile World 67:3547+ My 30 '25; Abstracts. Textile Inst J 16:P144-5 My '25; Chemicals (Dyestuffs sec) 17:23+ Jl 20 '25
Soap and solvent mixtures in dyeing cotton. O. R. Flynn. Textile World 66:477+ Jl 26 '24
Softening agents for cotton. J. S. Wilson. Textile Col 46:645-6 O '24
Some causes of uneven dyeing of cotton piece-goods. L. J. Matos. Color Tr J 14:71-2 F '24
Some important matters in the dyeing of cotton. Textile Col 47:518-19 Ag '25
Some new sulfur dyestuffs. E. Cagliostro. Color Tr J 14:53-4 F '24
Some vat colors I have known. W: H. Cady. Am Dyestuff Rep 12:880-3 D 3 '23
Something on the dyeing of vat colors on mercerized cotton goods. R. Sansone. diags Textile Col 46:29-34, 94-5 Ja-F '24
Sulfonated castor oil. M. N. Conklin. Color Tr J 14:22-4 Ja '24
Sulphur colors. W: B. Nanson. Textile Col 47:627-9, 710-12, 779-81 O-D '25 (to be cont)
Sulfur dyes. O. Spengler and A. Thurm. Chemicals (Dyestuffs sec) 17:36 Ag 17 '25
Theory of mordants and alumina. W. B. Nelson. Am Dyestuff Rep 13:732-6 N 3 '24
Treatment of cotton. M. N. Conklin. Color Tr J 16:90-2 Mr '25
Treatment of cotton to make it resist dyeing with substantive colors. Chemicals (Dyestuffs sec) 16:175 My 25 '25
Uneven dyeing of cotton goods. L. J. Matos. Textile World 65:3633+ My 31 '24
Vat colors. H. Grandage. Am Dyestuff Rep 12:872-4 D 3 '23
Vat dyes: their properties and various phases of application. G: K. Hannah, jr. Am Dyestuff Rep 13:20-4 Ja 14 '24
Vegetable matters used in dyeing cotton goods. W. B. Nelson. Am Dyestuff Rep 13:597-601, 632-6 S 8-22 '24
Warp dyeing and its difficulties. J. L. Lishman and H. E. Hudson. Textile Inst J 15:P55-6 F '24

See also Calico printing; Castor oil, Sulfonated; Cutch

Cotton—artificial silk

Handling cottons with rayon. R. W. Arrington. Textile World 68:2311+ O 17 '25; Same. Am Dyestuff Rep 14:726-8 N 2 '25

Cotton—silk

Aniline black on mixtures of silk and cotton. Textile Col 47:723 N '25

DYES and dyeing—Cotton-silk—*Continued*
Dyeing cotton-silk mixtures black. Textile Col 47:719 N '25
Dyeing of cotton and silk hosiery. S. V. DeForest. Chemicals (Dyestuffs sec) 17:59 S 14 '25
Dyeing silk-cotton mixtures. Textile Col 47: 647-9 O '25
Two dyes in one bath. Chem Age (Lond) 10: 244 Mr 8 '24
Value of laboratory; useful to the hosiery dyer in many ways. Textile World 65:375+ Ja 19 '24

Cotton—wool

Multiple colored fabrics with cotton and wool fibers. Am Dyestuff Rep 14:239 Ap 6 '25
One-bath method of dyeing unions of cotton and wool. Textile Col 47:583-4 S '25

Felt

Dyeing felt hats. F: Grove-Palmer. Am Dyestuff Rep 13:829 D 15 '24
Dyeing opalescent and fluorescent effects on hat felts. Color Tr J 16:135 My '25

Fur

Black and brown on fur. W. Sanderson. Textile Col 47:179 Mr '25
Dyeing and finishing of leather. A. Rogers. Am Dyestuff Rep 14:86 F 9 '25
Dyeing black on jackal furs. Am Dyestuff Rep 14:547 Ag 10 '25

History

Historical survey of dyeing and calico printing. J. R. Hannay. Soc Dyers & Col J 40: 317-23 O '24
Relationship of the modern dyer to the ancient colorist. M. D. C. Crawford. Am Dyestuff Rep 13:144-6 F 25 '24

Inspection

Some problems encountered in inspecting dyed yarns in the dyehouse. W. F. Haskell. Am Dyestuff Rep 12:938-9; Discussion. 939-41 D 31 '23

Leather

Clearing methods for dyed leathers. Color Tr J 14:68 F '24
Dyeing and finishing of leather. A. Rogers. Am Dyestuff Rep 14:82-6; Discussion. 86-7 F 9 '25
Dyeing and staining of leather. J. W. Lamb. Soc Dyers & Col J 41:55-9 F '25
Dyeing of leather. F. P. Howden. 39p E. I. du Pont de Nemours & co., Wilmington, Del. '24
Dyeing of leather tanned with synthetic tannins. G: E. Knowles. Soc Dyers & Col J 41: 308-11 S '25
Grünhagen patents on acridine dyestuffs. Color Tr J 15:107-8 O '24
Post-war leather dyeing. M. C. Lamb. Soc Dyers & Col J 41:253-4 Jl '25

Mordants

Action of mordants on various fibers. M. N. Conklin. Chemicals (Dyestuffs sec) 17:3-4 Jl 20 '25
Application of chromium compounds in dyeing. W. C. Durfee. Am Dyestuff Rep 13:226-30 Ap 7 '24
Effects of hydrogen-ion concentration on compound formation and adsorption of dyes by mordants. R. E. Marker and N. E. Gordon. Ind & Eng Chem 16:1186-8 N '24
Four aluminum mordants for silk. Textile Col 47:584-5 S '25
Mordanting; abstract. E. Elöd. Soc Dyers & Col J 41:288 Ag '25
Mordanting wool with some chromium compounds. E. J. Cross. Soc Dyers & Col J 40:357-9 N '24
Process for the dyeing of mordant colors on wool. J. M. Matthews. Chemicals (Dyestuffs sec) 16:151-3 My 25 '25
Single bath chrome colors; their use and importance in the textile industry. Onnertz. Color Tr J 16:87 Mr '25
Testing chrome mordants on the fabric. C. F. Green. Textile Col 47:175 Mr '25
Theory of mordants and alumina. W. B. Nelson. Am Dyestuff Rep 13:732-6 N 3 '24

Natural dyes

Constitution and synthesis of natural colouring matters. R. Furness. Chem Age (Lond) 13:30-3 Jl 11 '25
Dyeing properties of some Scottish lichens, and of a few other materials. T. S. Patterson. Soc Chem Ind J 43:189-90 Je 13 '24; Same. Soc Dyers & Col J 40:306-8 S '24
Interesting sources of natural dyestuffs. C. D. Mell. il Textile Col 45:42-4+, 235-8, 296-7, 381-4, 568-9, 701-3; 46:244, 310-11+, 443-6, 511-13; 47:110-11, 636-7, 708-9 Ja, Ap-Je, S, N '23, Ap-My, Jl-Ag '24, F, O-N '25
Vegetable dyes native to India. Chemicals (Dyestuffs sec) 16:184 Je 22 '25
Vegetable matters used in dyeing cotton goods. W. B. Nelson. Am Dyestuff Rep 13: 597-601, 632-6 S 8-22 '24

See also Indigo; Logwood

Package dyeing

Apparatus for package dyeing. G: C. Guild. diag Chemicals (Dyestuffs sec) 17:92-3 O 12 '25

Paper

Affinity of basic dyes for bleached sulphite fiber. G. K. Spence. Am Dyestuff Rep 13: 345-6 My 19 '24
Alum in beater coloring of sized paper. W. C. Holmes. Am Dyestuff Rep 14:129-30 F 23 '25
Causes of variations in shade of colored paper. Am Dyestuff Rep 13:35 Ja 14 '24
Colored back water and two sidedness in paper mills. J. R. Roberts. Paper Tr J 81:55-6 O 1 '25
Coloring of paper. N. Clark. Am Dyestuff Rep 13:149-52 Mr 10 '24
Coloring of paper. K. T. King. Paper 33:8-9 N 22 '23
Colors used in the paper industry. I. Ginsberg. Textile Col 47:363-5 Je '25
Dyeing and tinting of paper. J. Huebner. Paper 33:3-6+ N 8 '23
Dyeing of paper. J: R. Roberts. 102p E. I. du Pont de Nemours & co., Wilmington, Del. '24
How paper is tinted white. J: R. Roberts. Paper 34:327-8 Je 12 '24; Same. Paper Tr J 78:49-50 My 29 '24
How to apply aniline dyes in a paper mill. L. Mann. Can Chem & Met 7:282-3 N '23
Making of colored papers. M. L. Griffin. Am Dyestuff Rep 13:116-19 F 25 '24
Methods for testing dyes used in tinting and coloring paper. G. K. Spence. Am Dyestuff Rep 12:899-902 D 17 '23
Notes on paper dyeing. Paper 35:362 D 18 '24
Paper colors and color testing. Paper Tr J 81:51-5 Jl 16 '25
Processes of coloring coated paper. N. Clark. Paper 33:9-11 F 21 '24
Recent new dyestuffs for paper tinting. Paper 33:8 Ja 24 '24
Testing and proper selection of aniline dyes in paper coloring. C. C. Schneider. Tech Assn Pa ser 8:83 '25; Same. Paper Tr J 80:50 F 26 '25; Same. Paper 35:96 F 12 '25
Tests for paper dyes. L. Mann. Paper 33:34 Ap 10 '24
Use of soda ash in the beater coloring of sized papers. W. C. Holmes. Am Dyestuff Rep 13: 561-4 Ag 25 '24

Plush

Plush dyeing. W. W. Watson. Textile Col 46:430-1 Jl '24

Protective agents

Use of protective agents in cross dyeing of union goods with sulphur dyes. W: J. Sayers. Textile Col 47:491-3 Ag '25

Ramie

Mercerising, dyeing and finishing of ramie. W: Marshall. il (supp) Soc Dyers & Col J 40:10-13 Ja '24

DYES and dyeing—*Continued*

Rates

Reduction in British piece-dyeing charges. Textile Col 46:157 Mr '24

Rubber

Accelerating influence of an azo dye in vulcanisation. T. J. Drakeley, A. Zeitlin and L. H. Williams. Soc Chem Ind J 43:238-9 Jl 18 '24

Coloring of rubber products. M. S. Grant. Rubber Age 17:57-9 Ap 25 '25

Silk

Affinity of silk for dyestuffs. J. Pokorný. Soc Dyers & Col J 41:75 F '25

Application of hydrogen ion determination to textile work. W. M. Scott. Am Dyestuff Rep 14:148, 150 Mr 9 '25

Application of the vat dyes on silk. W. M. Scott. Am Dyestuff Rep 12:870-2 D 3 '23

Cause of fuzziness in silk dyeing. Am Dyestuff Rep 13:445 Je 30 '24

Dyeing chiffon. diag Textile World 67:3559+ My 30 '25

Dyeing of silk fast to water. J. R. Wilson. Textile Col 46:782 D '24

Dyeing silk to a match. W. R. McKennon. Textile Col 47:238 Ap '25

Dyeing sulphur colors on silk. R. E. Rose. Am Dyestuff Rep 13:49-52; Discussion. 52-4 Ja 28 '24

Dyeing tin-weighted silk. Textile Col 47:651 O '25

Fast colors on silk. Textile Col 46:293, 375 My-Je '24

Features in modern silk dyeing. J. M. Matthews; E. Cagliostro. Color Tr J 14:125-8, 189-92; 15:23-6, 47-50 Ap, Je-Ag '24

Logwood black on various materials. H. R. Tisdale. Textile World 67:3545+ My 30 '25

New dyestuff from turpentine, bromo-aminocymene. A. S. Wheeler. Color Tr J 15:77 S '24

Process of dyeing silk piece goods; patent. Am Dyestuff Rep 13:481-2 Jl 14 '24

Process of dyeing washing fast colors on silk piece-goods. Color Tr J 16:73 Mr '25

Progress in dyes for wool and silk in 1923. Textile World 65:975+ F 2 '24

Roughness of dyed silk hosiery. C. E. Bick. Am Dyestuff Rep 14:717 N 2 '25

Rubbing machine for finishing silk goods. diag Color Tr J 16:74-5 Mr '25

Some difficulties connected with the weighting and dyeing of skein silk. Color Tr J 15:57-9 Ag '24

Some points as to dyeing silk. Textile Col 47:447-8 Jl '25

Substantive dyes on silk. Textile Col 47:519-20 Ag '25

Technical control in the modern silk hosiery dyehouse. L. S. Zisman. Am Dyestuff Rep 14:207-9 Ap 6 '25

Weighting and dyeing of silk. J. Knup. Am Dyestuff Rep 13:763-4 N 17 '24

Weighting of silks. J. Woodman. Textile Col 45:30-4, 95-7, 298-301, 366-70, 447-9, 491-4, 577-81; 46:26-8 Ja-F, My-S '23, Ja '24

See also Dyes and dyeing—Cotton-silk; Silk printing; Silk weighting

Silk, Artificial

Anthraquinone colors on cellulose acetate. L. J. Hooley. Color Tr J 16:93-5 Ap '25

Bleaching, dyeing and finishing of acetate silk. R. D. Little. Am Dyestuff Rep 13:5-10 Ja 14 '24

Celatene dyes and their application. J. S. Wilson. Soc Dyers & Col J 41:169-72 My '25

Celloxan. Color Tr J 14:166 My '24

Cellulose acetate silk—celanese. H. Platt. Am Dyestuff Rep 14:49-51 Ja 26 '25

Dyeing acetate silk. C: E. Mullin. Am Dyestuff Rep 14:173-6, 214-15+, 243-5, 279-81, 315-18+, 350-2+, 381-4+, 420-4, 462-6, 482-4+, 517-21, 554-6+, 588-93, 622-7, 653-8, 694-9 Mr 23-O 19 '25

Dyeing acetate silk—British patent. Color Tr J 16:26 Ja '25

Dyeing acetate silk; French patent. Am Dyestuff Rep 14:133 F 23 '25

Dyeing acetyl silk. E. Müller. Soc Dyers & Col J 41:75-6 F '25

Dyeing artificial silk in hosiery goods; abstracts. H. B. Wolstenholme. Chemicals (Dyestuffs sec) 16:153-4 My 25 '25; Textile World 68:1613+ S 19 '25

Dyeing by colloidal solubilisation or dispersion of insoluble colouring matters; the S. R.A. colours. G. H. Ellis. Soc Dyers & Col J 40:285-90 S '24; Same. Am Dyestuff Rep 13:712-16 N 3 '24; Same. Textile World 66: 3115+, 3321+ N 29-D 6 '24

Dyeing of acetate silk. G. H. Ellis. Chem Age (Lond) 11:577 D 6 '24; Same. Soc Chem Ind J (Chem & Ind) 43:1261-2 D 19 '24; Abstract. Am Dyestuff Rep 14:311 My 4 '25

Dyeing of acetate silk. A. P. March. Am Dyestuff Rep 14:37-40+ Ja 26 '25

Dyeing of acetate silk; Actien gesellschaft für anilin-fabrikation. Color Tr J 15:161-2 D '24

Dyeing of acetate silk; Green and Saunders patent. Color Tr J 15:30-2 Jl '24

Dyeing of acetyl silk with insoluble azo dyes. E. Knecht. Soc Dyers & Col J 41:97 Mr '25

Dyeing of artificial silk. E. Clayton. Soc Dyers & Col J 41:108-9 Mr '25

Dyeing of artificial silk. E. F. James. Am Dyestuff Rep 14:358-64; Discussion. 364-5 Je 1 '25

Dyeing of artificial silk. G: Rudolph. Chemicals (Dyestuffs sec) 17:90-1 O 12 '25

Dyeing of artificial silks. L. G. Laurie. Soc Dyers & Col J 41:305-8 S '25

Dyeing of celanese. H. Platt. Am Dyestuff Rep 13:255-60; Discussion. 260-3 Ap 21 '24

Dyeing of celanese silk. G. H. Ellis. Soc Dyers & Col J 41:98-9; Discussion. 95-7 Mr '25

Dyeing of cellulose acetate; abstract. Soc Dyers & Col J 40:340-1 O '24

Dyeing of cellulose-acetate artificial silk. A. J. Hall. Textile Col 46:153-7 Mr '24

Dyeing of cellulose acetate silk. H. R. Davies. Am Dyestuff Rep 13:753-8 N 17 '24

Dyeing of cellulose-acetate silk. L. G. Lawrie. il Soc Dyers & Col J 40:69-73 Mr '24; Same. Am Dyestuff Rep 13:593-6+ S 8 '24; Abstract. Chem Age (Lond) 10:12-13 Ja 5 '24; Discussion. Soc Dyers & Col J 40:73-4 Mr '24

Dyeing of knitted fabrics containing acetate silk and other artificial silk or cotton. R. Clavel. Color Tr J 16:129 My '25

Dyeing of rayon hosiery. H. C. Roberts. Textile World 68:1785-6 sec 2 S 26 '25

Dyeing of rayon in the skein. E. F. James. Textile World 68:1788-90 sec 2 S 26 '25

Dyeing of viscose rayon. Textile World 68: 1169 Ag 29 '25

New process for dissolving and dyeing azonines upon acetate silk. Textile Col 46:108 F '24

New process for the dyeing of acetate silk. Color Tr J 16:88-9 Mr '25

Practical dyeing of celanese silk. G. H. Ellis. Textile Inst J 16:P25-6 Ja '25; Same cond. Color Tr J 16:82-3 Mr '25

Printing of acetyl cellulose. E. Swindells. Color Tr J 14:163-4 My '24

Printing of artificial silk goods. R. Sansone. diags Textile Col 47:289-93 My '25

Progress of research in the ionamine dyestuffs; abstract. A. G. Green and K. H. Saunders. Soc Dyers & Col J 40:138-41 My '24

Recent developments in dyestuffs for cellulose-acetate silk. L. G. Lawrie. Chem Age (Lond) 11:414-16 O 25 '24

Researches in artificial silk industry. E. Cagliostro. diags Color Tr J 13:137-8, 205-8 O, D '23

S.R.A. colours. G. H. Ellis. Chem Age (Lond) 12:81 Ja 24 '25

S.R.A. dyestuffs for celanese brand yarns, fabrics and garments. R. G. Dort. Chemicals (Dyestuffs sec) 17:113-16 N 9 '25

Treatment of cellulose esters for dyeing; Metzger patent. Chemicals (Dyestuffs sec) 17:35 Ag 17 '25

DYES and dyeing—Silk, Artificial—*Continued*

Viscose silk and its dyeing properties. A. J. Hall. Textile Col 46:17-20 Ja '24

See also Dyes and dyeing—Cotton-artificial silk

Bibliography

Bibliography of patent literature on dispersal dyes. C: E. Mullin. Am Dyestuff Rep 14:590-3 S 7 '25

Silk, Artificial—wool

Artificial silk and wool hosiery. L: G. Hayes. Color Tr J 14:59-61 F '24; Same. Am Dyestuff Rep 13:213-15 Ap 7 '24

Soap

Bleaching and dyeing of soaps. Color Tr J 14:119 Ap '24

Dyeing soap and perfumery. J. R. Wilson. Textile Col 45:440-2, 501-3, 656-8, 727-30; 46: 103-5, 376-9 Jl-Ag, O-N '23, F, Je '24

Standards

Dye standardization plans are discussed. Oil Paint & Drug Rep 105:44c Ap 28 '24

Dye standards supplement. Oil Paint & Drug Rep 108:68 Jl 27 '25

Terminology

Indanthrene dyestuffs. Am Dyestuff Rep 13: 834 D 15 '24

Nomenclature of dyestuffs. R. W. French. Am Dyestuff Rep 13:875-6 D 29 '24

Vat dyes

Another water-soluble vat dye; soledon jade green of the anthraquinone series. C: E. Mullin. Textile Col 47:568-71 S '25

Application of vat dyes to wool. C: E. Mullin. Am Dyestuff Rep 13:809-15 D 15 '24

Bleaching indigo and other vat dyes. diag Chemicals (Dyestuffs sec) 16:159-60 My 25 '25

Developments in green vat dyes. L. J. Hooley. Color Tr J 15:104 O '24

Dibenzanthrone vat dye. Chem & Met Eng 30: 63-4 Ja 14 '24

Dyeing of vat colors. G. O. Mitchell. Color Tr J 16:143-7; Discussion. 147 My '25

Identification of vat dyes on cotton. J. I. M. Jones and W. Kilby. Soc Dyers & Col J 41:127+ Ap '25

Influence of dispersion on vat dyeing. B. Wuth. Am Dyestuff Rep 13:291-5; Discussion. 295-7 My 5 '24

List of vat dyes with the color strength ratios between paste and powder. Am Dyestuff Rep 14:78+ F 9 '25

Manufacture of new yellow vat dyestuff. Color Tr J 14:14 Ja '24

Method of agitating and circulating dye vats. diags Color Tr J 15:44 Ag '24

New British development in vat dyestuffs. L. J. Hooley. Soc Chem Ind J (Chem & Ind) 44: 2-3 Ja 2 '25

New derivatives of the hydron dyes. Color Tr J 16:71-2 Mr '25

New development in green vat dyes. L. J. Hooley. Color Tr J 16:5-6 Ja '25

New developments in anthraquinone vat dyestuffs; Soledon colors. L. J. Hooley. Chem Age (Lond) 12:4-5 Ja 3 '25

New developments in the use of vat dyes. Am Dyestuff Rep 13:804-5 D 1 '24

New form of soluble indigo and other vat dyes. C: E. Mullin. Textile Col 47:22-7 Ja '25

New indigoid vat dyestuff. Color Tr J 15:77 S '24

New methods of using the vat dyes. Color Tr J 14:17-18 Ja '24

New process of dyeing cloth with vat dyes. G: J. Mess. Color Tr J 15:15-16 Jl '24

New soluble vat dyestuff; Sir William Alexander's views. Chem Age (Lond) 12:32 Ja 10 '25

Notes on the vat dyes. Color Tr J 15:12-13 Jl '24

Recent developments in the use of vat dyes. J. I. M. Jones. Soc Dyers & Col J 41:59-60 F '25; Discussion. 41:136-7 Ap '25

Recent progress in the vat dyestuff industry. B. DePuyster. Color Tr J 14:88-92, 177-80 Mr, Je '24

Reduction of certain vat dyes by means of alkaline sodium hydrosulfite. J: H. Yoe. J Phys Chem 28:1211-17 N '24

Reduction of vat colors, including indigo. M. Mackenzie. Am Dyestuff Rep 14:557-62 Ag 24 '25; Same cond. Textile World 68:485-6+ Jl 25 '25

Some vat colors I have known. W: H. Cady. Am Dyestuff Rep 12:880-3 D 3 '23

Something on the dyeing of vat colors on mercerized cotton goods. R. Sansone. diags Textile Col 46:29-34, 94-5 Ja-F '24

Use of hydrogen gas in the dyeing of vat colors. F. F. Warshaw. Am Dyestuff Rep 13: 163-4; Discussion. 164-5 Mr 10 '24

Vat colouring matters; abstract. J. Y. Johnson. Soc Dyers & Col J 40:339 O '24

Vat colors. S. F. Carter and others. Am Dyestuff Rep 12:869-76 D 3 '23

Vat dyeing industry. S. Kosche. Color Tr J 16: 67 Mr '25

Vat dyes in America. R. N. Shreve. Color Tr J 16:127-8 My '25

Vat dyes: their properties and various phases of their application. G: K. Hannah, jr. Am Dyestuff Rep 13:20-4, 45-7; Discussion. 47-9 Ja 14-28 '24

See also Indanthrene blue

Wool

Acid dyes on wool. W. R. McKenna. Textile Col 46:778-9 D '24

Anomalous adsorption of dyes by cotton and wool. J: B. Speakman and A. E. Battye. Textile Inst J 16:T53-60 F '25; Same. Color Tr J 16:102-5 Ap '25

Application of vat dyes to wool. C: E. Mullin. il Am Dyestuff Rep 13:809-15 D 15 '24

Behaviour of wool as an amphoteric colloid; a contribution to the theory of dyeing. J. B. Speakman. Soc Dyers & Col J 40:408-11; 41:172-9 D '24, My '25

Black dyeing of woolen goods. J. M. Matthews. Color Tr J 16:95-8 Ap '25

Carbonizing and dyeing. Textile Col 47:517 Ag '25

Classification of the methods of dyeing wool. J. M. Matthews. Color Tr J 14:77-81, 142-5; 15:7-9 Mr, My, Jl '24

Cloth finishing with references to dyeing. T: Canby. Chemicals (Dyestuffs sec) 17:119-20 N 9 '25

Colour reaction of wool; abstract. L. Meunier and G. Rey. Soc Dyers & Col J 40:423-4 D '24

Covering cellulose flecks in woolen piece goods. G: H. Mason. Textile Col 45:634-9; 46:99-102 O '23, F '24

Dyeing loose wool. Textile Col 47:588 S '25

Dyeing navy blue on woolen goods. J. M. Matthews. Color Tr J 16:45-8 F '25

Dyeing of loose wool. L: J. Matos. Color Tr J 13:201-4 D '23

Dyeing of wool with acid colours of the type of orange II. P. Ruggli and A. Fischli. Soc Dyers & Col J 40:189 Je '24

Dyeing of woolen yarn. Textile Col 47:720-1 N '25

Dyeing on a chrome mordant. Chemicals (Dyestuffs sec) 17:44 Ag 17 '25

Dyeing tops and hanks—wool in form of sliver. il Textile Col 47:239 Ap '25

Dyeing wool. Soc Dyers & Col J 41:145-6 Ap '25

Dyeing wool and hair hats. J. S. Heuthwaite. Textile World 66:1119+, 1691+ Ag 30, S 27 '24

Dyeing woolen hosiery. W. S. William. Textile Col 46:638 O '24

Dyeing yarn for carpets. A. K. Robertson. Textile Col 46:706-9, 774-7; 47:99+ N-D '24, F '25

Fancy shades on worsteds. L: J. Matos. Textile Col 46:232 Ap '24

Fast colors on wool. J: L. Anderson. Textile Col 46:635 O '24

Fast dyeing of wool fabrics. B. Firth. Am Dyestuff Rep 12:929-32 D 17 '23

DYES and dyeing—Wool—*Continued*
Fastness of dyes on cotton and wool; second public report of the Fastness committee of the German Chemiker verein. Textile World 68:2629+, 3221+ O 31, N 28 '25
Faults in dyed goods. S. R. Trotman. Textile World 65:373+ Ja 19 '24
Improvements in mordanting and dyeing wool. Chemicals (Dyestuffs sec) 17:105+ O 12 '25
Logwood black. C. Cavendish. Color Tr J 15: 105-6 O '24
Loose wool dyeing. L: J. Matos. Textile World 68:1164 Ag 29 '25
Manufacture of chromed dyestuffs. F. Straub. Color Tr J 14:187 Je '24
Methods of altering the coloring properties in wool. S. Heuthwaite. Color Tr J 14:102-4 Mr '24
Mordanting and dyeing wool; abstract. C. S. Bedford. Soc Dyers & Col J 41:340 O '25
Mordanting wool with some chromium compounds. E. J. Cross. Soc Dyers & Col J 40: 357-9 N '24
Multi-coloured effects in piece-dyed woollens, worsteds and unions. C: S. Wilkinson. Textile Col 47:86-7 F '25
New chrome developing dyestuffs. E. Reber. Color Tr J 14:187 Je '24
New dyestuff from turpentine, bromo-aminocymene. A. S. Wheeler. Color Tr J 15:77 S '24
New dyestuffs for dyeing wool and preparing pigments. Color Tr J 15:163 D '24
New process of mordanting and dyeing wool discovered by the research department of the Du Pont company. Color Tr J 16:99 Ap '25
New process of mordanting wool; patent. Chemicals (Dyestuffs sec) 17:4-5 Jl 20 '25
New range of fast wool colours. H. Whitworth. Soc Dyers & Col J 40:256-8; Discussion. 258-9 Ag '24
Preliminary stages in wool dyeing. J. S. Heuthwaite. Am Dyestuff Rep 14:583-4, 603-6 S 7 '25; Same. Chemicals (Dyestuffs sec) 17:60-1, 91-2 S 14-O 12 '25
Preparation and dyeing of ladies' dress fabrics. L: J. Matos. Am Dyestuff Rep 13:447-8, 463-4 Je 30-Jl 14 '24
Preparation of stable vat dye compounds for dyeing wool. Color Tr J 14:176 Je '24
Process for dyeing wool with dyestuffs capable of being chromed. Am Dyestuff Rep 14: 202-3 Mr 23 '25
Process for resist dyeing of wool. Color Tr J 16:40-1 F '25
Process for the dyeing of mordant colors on wool. J. M. Matthews. Chemicals (Dyestuffs sec) 16:151-3 My 25 '25
Process of mordanting and dyeing wool; patent. F. C. Telen. Am Dyestuff Rep 13: 377 Je 2 '24
Progress in dyes for wool and silk in 1923. Textile World 65:975+ F 2 '24
Relation between the nitrogen of wool and its affinity for acid and basic dyes. E. R. Trotman. Soc Dyers & Col J 40:77-9; Discussion. 79 Mr '24
Several color reactions on wool. I. Meunier and G. Rey. Am Dyestuff Rep 14:313-15 My 18 '25
Some practical methods of dyeing with indigo. J. O. Somerville. Chemicals (Dyestuffs sec) 17:53 Ag 17 '25
Sulphite cellulose waste liquor for mordanting. Textile World 68:501+ Jl 25 '25
Testing of fastness to washing or laundering of dyed woolen material. Am Dyestuff Rep 14:225-6 Ap 6 '25
Textile fibres: wool. H. Priestman. Soc Dyers & Col J 40:373-6 N '24
Unwanted effects and suitable remedies in connection with dyeing of woolen piece goods. Textile Col 47:448-9 Jl '25
Vat colors on wool. W: E. Mitchell, H. Clapham and P. S. Clarkson. Am Dyestuff Rep 12:874-5 D 3 '23
Wool dye of the pyrone series. G: Kohres. Chemicals (Dyestuffs sec) 17:94-5 O 12 '25
Wool fibre and its reactions to dyestuffs. Textile Col 47:649-51 O '25

See also Dyes and dyeing—Cotton-wool

Wool—silk
Temperature control in dyeing mixtures of wool and silk. Textile Col 47:515-16 Ag '25

DYES and dyeing, Photographic
Researches on quinazolines; stereoisomeric styryl derivatives of some 4-quinazolone alkyl iodides, and their bearing upon the problem of photosensitizing dyes. M. T. Bogert and H. Clark. Am Chem Soc J 46: 1294-1301 My '24

See also Dicyanines

DYES as antiseptics and disinfectants
Fighting disease with aniline dyes. N. R. Clarke. il Sci Am 133:302-3 N '25
Preparation and properties of 4,4-diphenyldiarsonic acid. A. E. Hill. Am Chem Soc J 46:1855-7 Ag '24

DYNAMIC braking. See Braking, Dynamic

DYNAMIC symmetry. See Design

DYNAMICS
Choice of coordinates in the evaluation of quantum integrals. J. H. Van Vleck. Phys R 22:547-51 D '23
Dynamics of Leonardo da Vinci. I. B. Hart. diags Engineering 116:729-30 D 7 '23
Principle of dynamical similarity, with special reference to model experiments. A. H. Gibson. Engineering 117:325-7, 357-9, 391-3, 422-3 Mr 14-Ap 4 '24
Steady precession of a body rolling on a table; with slight nutation superposed. G: Greenhill. Philos Mag 6th ser 47:94-110 Ja '24

See also Aerodynamics; Falling bodies; Force and energy; Hydrodynamics; Kinematics; Matter; Mechanics; Oscillations; Physics; Quantum theory; Thermodynamics; Top; Virial, Theorem of

DYNAMICS of a particle
Central orbits in relativistic dynamics treated by the Hamilton-Jacobi method. G. Temple. Philos Mag 6th ser 48:277-92 Ag '24
Motion of a particle projected from a point on the earth's surface—variation in gravity being taken into account. J. Robertson. Philos Mag 6th ser 50:180-7 Jl '25
Relativity dynamics of a particle. P. A. M. Dirac. Philos Mag 6th ser 47:1158-9 Je '24
Terminal velocity of particles of powdered coal falling in air or other viscous fluid. J: Blizard. J Fr Inst 197:199-207 F '24

DYNAMITE
Blast factory; from raw materials to finished product in the world's largest dynamite plant. H. E. Davis. il Sci Am 130:386+ Je '24
Blasting brick foundation. il Eng & Contr (C C) 64:669 S 16 '25
Clearing drainage ditch with dynamite. H. C. McClure. Pub Works 56:192-3 My '25
Commercial explosives—their selection and use. D. P. Allison. il Eng & Min J 117:197-201 F 2 '24
Conditions of success in explosives manufacture. G: H. Markell. Chem Age 32:6-8 Ja '24
Development and use of industrial explosives. A. La Motte. Eng & Contr (Ry) 62:1331-6 D 17 '24
Dynamite; uses, handling and role of explosive in many kinds of builders' work. P. L. Schaeffer. il Bldg Age 47:138-9 Ap '25
Efficient ditching with dynamite. Eng & Contr (W W) 63:551 Mr 11 '25
Headache among workers using dynamite in stone quarries. Monthly Labor R 20:1326 Je '25
Proofs that dynamite acts equally in all directions. J. E. Crawshaw. il Eng & Contr (Ry) 61:417-18 F 20 '24
Recent developments in use of dynamite in ditching operations. F. J. Byrne. Munic & Co Eng 67:52 Jl '24
Shooting an oil well with dynamite. S. H. Brockunier. il Eng & Min J 120:17-18 Jl 4 '25
Solving drainage problems with dynamite in Illinois. il Munic & Co Eng 67:245 N '24

DYNAMITE—*Continued*
Successful dynamiting at 35 degrees below zero. Munic Eng 66:53-4 F '24
What happens when dynamite explodes? C: S. Hurter. Eng & Min J 118:568 O 11 '24; Same. Munic & Co Eng 67:158 S '24; Same. Concrete (cement mill sec) 26:50 Ap '25
See also Blasting

Testing
Testing dynamite. Mech Eng 47:937 N '25

DYNAMOMETER
Direct-current dynamometers. S. Hancock. il diags Elec J 22:385-9 Ag '25
Dynamomètre de torsion, système Amsler, avec dispositif de lecture stroboscopique. diag Génie Civil 84:260-1 Mr 15 '24
Electric dynamometers in engine development. H. M. Martin. il Aviation 18:105-6 Ja 26 '25
Ingenious belt-tension dynamometer. il diags Power 61:547 Ap 7 '25
Laboratory tests show effects of different fuels and oils on engine performance. il Automotive Ind 51:608-10 O 2 '24
Mason laboratory issues car test results. Automotive Ind 50:731 Mr 27 '24
Measuring cable stresses with a dynamometer. il Elec W 83:1135-6 My 31 '24
Milling-machine dynamometer. il Sci Am 129: 399 D '23
Quick-acting dynamometric contact spring. F. J. Schlink. diag Am Mach 62:887 Je 4 '25
Recording torsion dynamometer. diag Power 61:195 F 3 '25
Testing bus engines with dynamometer. P. V. C. See. il Elec Ry J 63:224 F 9 '24
Testing wooden poles by dynamometer. il Elec W 84:421-2 Ag 30 '24
Torsionsdynamometer. L. Klein. il diags Zeit Ver Deutsch Ing 68:830-1 Ag 9 '24

DYNAMOMETER cars
New dynamometer car, New York Central R.R. il plan Ry R 74:687-91 Ap 12 '24
New York Central dynamometer car. il plan Ry Age 77:1109-12 D 20 '24; Same. Ry Mech Eng 99:202-6 Ap '25
Scientific test for motor cars. il Ry R 76: 459-62 Mr 7 '25
Le wagon-dynamomètre des Chemins de fer de l'État italien. plan Génie Civil 85:213-15 S 6 '24
Le wagon-dynamomètre des Chemins de fer fédéraux suisses. diags Génie Civil 84:571-3 Je 14 '24

DYNAMOS. See Electric generators

DYSENTERY
Outbreak of amebic dysentery in Connecticut. M. Knowlton and I. V. Hiscock. map Nation's Health 7:327-30+ My '25

E

EAR
Electrical apparatus for the deaf. C: M. R. Balbi. il diags Elec R (Lond) 94:87-9, 149-50 Ja 18-25 '24
Human ear and radio reception. J: P. Minton. il diags Wireless Age 11:33-5+ Jl '24
See also Hearing

EAR fatigue. See Hearing

EARTH
Bearing of normal faults on the hypothesis of a shrinking earth. F. P. Shepard. il diags Am J Sci 5th ser 7:146-54 F '24
Center of the earth. L. H. Adams and H. S. Washington. Sci Am 132:51 Ja '25
Composition of the earth's crust. F. W. Clarke and H: S. Washington. U S Geol S Prof Pa 127:1-117 '24
The earth, its origin, history and physical constitution. H. Jeffreys. 278p Macmillan '24
Geological relations of earth-condensation and resulting acceleration in rotation. J. Barrell. diags Am J Sci 5th ser 10:408-32, 499-529 N-D '25 (to be cont)
Inside the earth, and out. O. Lodge. il Sci Am 130:374-5 Je '24
Origin of the solar system; a reply to "T.C.C." H. Jeffreys. Am J Sci 5th ser 9: 395-405 My '25
What the earth is made of. H: S. Washington. il Sci Am 133:10-11 Jl '25
See also Atmosphere; Caves; Diastrophism; Earth temperature; Earthquakes; Folds (geology); Geochemistry; Geodesy; Geodynamics; Geology; Geophysics; Isostasy; Magnetism, Terrestrial; Meteorology; Mines and mineral resources; Ocean; Ore deposits; Paleoclimatology; Water, Underground

Rotation
Influence of the earth's rotation on a top. J: L. Synge. Philos Mag 6th ser 47:525-9 Mr '24
Rotating earth as a reference system for light propagation. L. Silberstein. Philos Mag 6th ser 48:395-404 S '24
Some fundamental problems of diastrophism and their geological corollaries with special reference to polar wanderings. L. A. Cotton. Am J Sci 5th ser 6:453-97; Bibliography. 497-503 D '23

Surface
World revolutions. J. Joly. Sci Am 129:387 D '23

EARTH construction. See Adobe; Pisé

EARTH movements
Earth movements in California. W: Bowie. map Eng N 94:242-3 F 5 '25
See also Landslides; Subsidences (earth movements)

EARTH pressure
Earth pressure against abutment walls measured with soil pressure cells. J. V. McNary. diags plan Pub Roads 6:102-6 Jl '25; Abstract. Pub Works 56:277-9 Ag '25
Lateral earth pressures. J. Feld. Pub Works 55:29-30 Ja '24
Modification of Rankine's theory of earth pressures on retaining walls. W: J. Walker. Philos Mag 6th ser 49:476-80 F '25
Relation of sewer trench width to load on pipe. G: C. D. Lenth. diags Eng N 92:533-5 Mr 27 '24; Discussion. 92:779, 1030 My 1, Je 12 '24
Stresses due to a loaded surface when earth is treated as an elastic solid. S. D. Carothers. Engineering 118:1-2, 156-7+ Jl 4, Ag 1 '24
Vertical pressure of earth fills measured. C. N. Conner. il Pub Roads 6:24 Mr '25; Same. Eng & Contr (G C) 63:834 Ap 17 '25; Same. Pub Works 56:226-7 Je '25
See also Dams; Earthwork; Retaining walls

EARTH roads. See Roads, Earth

EARTH slides. See Landslides

EARTH temperature
Apparatus for the measurement of temperatures in deep wells by means of maximum thermometers. C. E. Van Orstrand. il diags Econ Geol 19:229-48 Ap '24
Escape of heat from the earth's crust. J. R. Cotter. Philos Mag 6th ser 48:458-64 S '24
Exploring the depths. Engineer 138:528 N 7 '24; Discussion. 138:551 N 14 '24
Heat of the earth. O: Wilson. il Sci Am 130: 98+ F '24
Power from the earth's heat. T: T. Read. il Mech Eng 46:446-8 Ag '24
Relation of earth temperatures to buried hills and anticlinal folds. W. T. Thom, jr. diag Econ Geol 20:524-30 S '25
Tapping the earth's heat. Power 60:590 O 7 '24

EARTHENWARE
Manufacture of soft earthenware. F. Bigot. Am Cer Soc J 8 (Cer A 4):79-80 Mr '25

EARTHENWARE—*Continued*
Saggers in the earthenware industry. A. V. Bleininger. Am Cer Soc J (Bul) 8:531-3; Discussion. 533-40 O '25
Some forms of sulphuring on earthenware glazes. T: A. Shegog. Am Cer Soc J 8:148-53 Mr '25; Discussion. (Bul) 8:615-17 N '25

EARTHQUAKE insurance. See Insurance, Earthquake

EARTHQUAKES
Depth of earthquake focus. S. K. Banerji. Philos Mag 6th ser 49:65-80 Ja '25
Earthquake hazard as a credit factor. H. P. Preston. il map Credit M 27:12-13 O '25
Earthquake investigation in the United States. E. L. Jones. 27p United States, Coast and geodetic survey, Washington, D.C. '25
Earthquake risk in Boston. I. B. Crosby. fold map Boston Soc C E J 10:421-30 D '23
La géologie sismologique; les tremblements de terre. F. Montessus de Ballore. 488p A. Colin, Paris '24
History of British earthquakes. C: Davison. 416p University press, Cambridge, Eng. '24
Inside the earth, and out. O. Lodge. il Sci Am 130:374-5 Je '24
Some fundamental problems of diastrophism and their geological corollaries with special reference to polar wanderings. L. A. Cotton. Am J Sci 5th ser 6:472-82; Bibliography. 497-503 D '23
Underwriting earthquake hazards. B. Willis. Econ W n s 29:453-6, 490-2 Mr 28-Ap 4 '25

See also Japan—Earthquake, 1923; Seismographs

EARTHQUAKES and building
Adequate building codes needed; Santa Barbara earthquake. il Brick & Clay Rec 67: 105-10 Jl 21 '25
Architects' findings and recommendations following the Japanese earthquake of Sept. 1, 1923. D. O. Larsen. Eng & Contr (Bldgs) 60:1355-6 D 26 '23
Building in earthquake countries. W. H. Thorpe. Engineering 117:37 Ja 11 '24; Same. Eng & Contr (Bldgs) 62:940-1 O 22 '24
Comments on structural damage in Japan earthquake. il Eng N 91:1048-51; 92:336 D 27 '23, F 21 '24
Concrete cottage to withstand earthquakes. F: Rings. plans Concrete 27:22-3 Ag '25
Earthquake characteristics and building resistance. R. E. J. Summers. il Eng N 91: 1044-7 D 27 '23; Discussion. W. H. Thorpe. 92:296 F 14 '24
Earthquake damage to Santa Barbara buildings. H: D. Dewell. il Eng N 95:68-72, 149-53 Jl 9, 23 '25; Discussion. 95:358, 559-60 Ag 27, O 1 '25
Earthquake effects at Santa Barbara. Eng N 95:46-7, 126-7, 228-30, 279 Jl 9, 23, Ag 6-13 '25
Earthquake in Japan. J. S. Ruble. il Am Concrete Inst Pro 20:210-20 '24
Earthquake resistant construction. Arch & Bldg 55:122 D '23
Earthquake-resistant construction; suggestions from Tokyo. R. F. Moss. Eng N 95: 183-4 Jl 30 '25
Engineers discuss earthquake experiences and cautions. Eng N 95:271-2 Ag 13 '25
How structures withstood the Japanese earthquake and fire. H. M. Hadley. il Am Concrete Inst Pro 20:188-209 '24
Imperial hotel, Tokyo, Japan. J. Floto. il Arch Rec 55:118-23 F '24
Lessons from the Santa Barbara earthquake. B. Willis and others. Eng & Contr (Bldgs) 64:689-99 S 23 '25; Excerpts. Arch & Bldg 57:93-5 O '25
Lessons of the Japanese earthquake; types of construction which survived and recommendations for reconstruction. il Sci Am 130:100 F '24
Lessons of the Santa Barbara earthquake. W. Soule. il diags Am Arch 128:295-302 O 5 '25
Lessons to be learned from recent earthquakes. il Concrete 27:15-17 O '25
Reflections on the Tokyo disaster. L: H. Sullivan. il Arch Rec 55:113-17 F '24
Reinforced concrete proved its efficiency in Japan. T. Okubo. il Concrete 23:222-4+ D '23
Resistance of American type office building in Tokio to earthquake damage. Eng & Contr (Bldgs) 60:1155 N 28 '23
Types of buildings that withstand quakes. B. N. Harison. il Am Exporter 94:15-18+ F '24

EARTHQUAKES and public works
How Santa Barbara water works went through the earthquake. A. R. Poett and others. Eng & Contr (W W) 64:824-6 O 14 '25
What happened to municipal utilities at Santa Barbara. il diag Eng N 95:146-9 Jl 23 '25

EARTHS, Rare
Chemistry of the rarer elements. B. S. Hopkins. 376p Heath '23
Electrometric studies of the precipitation of hydroxides; precipitation in the cerite group of rare earths and of yttrium hydroxide by use of the hydrogen electrode. H. T: S. Britton. Chem Soc J 127:2142-7 S '25
Investigations of the chromates of thorium and the rare earths; the chromates of lanthanum, praseodymium, neodymium, and samarium. H. T: S. Britton. Chem Soc J 125:1875-80 S '24
Observations on the rare earths; a search for element sixty-one. L. F. Yntema. Am Chem Soc J 46:37-9 Ja '24
Observations on the rare earths; the purification and atomic weight of holmium. F. H. Driggs and B. S. Hopkins. diag Am Chem Soc J 47:363-9 F '25
Solubilities of rare-earth salts. M. D. Williams, H. C. Fogg and C. James. Am Chem Soc J 47:297-301 F '25
Twenty-five years of research on the yttrium earths. G. Urbain. Chem R 1:143-83; Bibliography. 184-5 Jl '24

See also Cerium; Neodymium; Praseodymium; Yttrium

EARTHWORK
Characteristics of quicksand and other soils met in ordinary excavation. C: R. Gow. Boston Soc C E J 11:53-69 F '24; Excerpt. Eng & Contr (W W) 61:596-8 Mr 12 '24; Abstract. Pub Works 55:350-2 N '24; Discussion. Boston Soc C E J 11:69-79 F '24
Court awards contractor $400,000 for engineers' fraud; James Stewart & co., inc., win heavy damages; falsification of barge canal plans. Eng N 93:24-5 Jl 3 '24
Estimating cost of moving dirt. H. G. Worsham. Eng & Contr (G C) 64:427-9 Ag 19 '25
Modern methods in reservoir building. il Pub Works 55:289-92 S '24
Resurfacing an old sand pit for farming. il Eng & Min J 118:53 Jl 12 '24

See also Dams; Dikes (engineering); Ditches; Dredging; Drilling and boring (earth and rocks); Earth pressure; Embankments; Excavation; Filling; Foundations; Hydraulic filling; Landslides; Railroads—Earthwork; Retaining walls; Roads—Grading; Trenches; Tunnels and tunneling

Cost

Employment of surplus war equipment in the construction of the Bronx river parkway. G. D. Clarke. il Sibley J 38:64-6+ Mr '24

Tables, calculations, etc.

Calculation of quantities. H. L. Swan. Can Eng 48:480 My 12 '25; Same. Eng & Contr (G C) 63:1355 Je 17 '25
Preliminary computation of earthwork quantities. F. M. Garnett. Eng & Contr (R & S) 61:715-17 Ap 2 '24
Pyramid and solids. A. S. Hovey. rev. ed. 95p A. S. Hovey, Helena, Mont. '25
Simple balancing of quantities in highway grading. F. M. Garnett. Eng N 91:1009-10 D 20 '23
Simple method of computing yardage without tables by the use of a constant. F. M. Garnett. Eng & Contr (R & S) 61:1257-8 Je 4 '24

EARTHWORK—Tables, calculations, etc.—*Cont.*
Yardage tables for highway work. H. A. Sitterley. Eng N 93:150 Jl 24 '24
See also Earth pressure

EAST
Economic conditions
Orient's 1925 trade outlook generally good. C: Hodges. Annalist 25:10+ Ja 5 '25

EAST INDIES
Commerce
East India trade in the XVIIth century, in its political and economic aspects. S. A. Khan. 325p Oxford '23

EAST ST LOUIS, Illinois
Rapid transit
Wage agreements in East St Louis. Elec Ry J 63:788 My 17 '24
Sewerage
Enlarged sewer system needed at East St Louis, Ill. map Eng N 95:260-1 Ag 13 '25

EASTERN ice association
New constitution and by-laws adopted. Refrig W 59:29-31 D '24

EASTERN Massachusetts street railway, Boston
Good showing by Eastern Massachusetts. Elec Ry J 63:430 Mr 15 '24
Report of public trustees, year ended Dec. 31, 1923. Comm & Fin Chr 118:1133 Mr 8 '24

EASTERN states gas conference
Annual meeting, 2d, Philadelphia, April 9-10. J. R. Jennings. Gas Age 53:527 Ap 19 '24
Annual meeting, 3d, Newark, April 22-23. Gas Age 55:607-8 Ap 25 '25

EASTMAN, George
American contemporaries. C. E. K. Mees. por Ind & Eng Chem 17:541 My '25
Eastman's gifts now $40,000,000. I. K. Sherman. Am Ind 25:31-2 Ja '25
Suppose you gave away $70,000,000. F: Beckmann. por Nation's Business 13:33-5 My '25

EASTMAN kodak company
Glimpse into the works of Eastman kodak company. il Ind Eng 82:214-15+ My '24
Making kodaks and contentment. J: E. Webber. il Am Ind 25:27-30+ N '24
Romances of industry—kodak. J: E. Webber. il Am Ind 25:9-12 Jl '25
Why good-will was not appraised for Kodak's sale of factories. Ptr Ink 128:10+ Ag 7 '24
Library
Eastman kodak company. E. A. Shields. Special Lib 16:274-5 O '25

EASTMAN theatre and school of music, Rochester, New York
Acoustics of the Eastman theatre, Rochester, N.Y. F. R. Watson. il Am Arch 128:31-4 Jl 1 '25
Eastman theater, Rochester; view. Arch Forum 42:399 Je '25

EAVES trough. See Gutters (roof)

ECCENTRIC parts
Tools and fixtures for turning eccentrics. F. H. Mayoh. diags Mach 30:976-9 Ag '24

ECGONINE
Aromatic esters of acylecgonines. W: H. Gray. Chem Soc J 127:1150-8 My '25

ECHINODERMS, Fossil
Remarkable fossil echinoderm fauna in the East Indies. F. Springer. Am J Sci 5th ser 8:325-35 O '24

ECHITAMINE
Echitamine. J: A: Goodson and T: A. Henry. Chem Soc J 127:1640-8 Jl '25

ECLIPSES, Solar
Aircraft observations of eclipse. Aviation 18: 133 F 2 '25
Atmospheric electric observations taken at the University of Chicago during the total eclipse of January 24, 1925. E. N. Coade and W: W. Merrymon. diags J Fr Inst 200:497-9 O '25
Atmospheric electric observations taken at Yale university during the total eclipse of January 24, 1925. W. F. G. Swann. diag J Fr Inst 200:489-96 O '25
Best observed eclipse in history. Sci Am 132: 155 Mr '25
Do not miss seeing the solar eclipse. H: N. Russell. il Sci Am 132:13 Ja '25
Eclipse and the peak load. map Elec W 85: 266-7 Ja 31 '25
Eclipse in relation to electric lighting. il N E L A Bul 12:185 Mr '25
Measurements of natural light during the solar eclipse, January 24, 1925. 34p Illuminating engineering soc., 29 W. 39th st., New York '25
Measurements of natural light during the solar eclipse of the sun, January 24th, 1925. il diags Illum Eng Soc 20:565-628 Jl '25
Observations of the total solar eclipse made by the electric companies in and around New York city, January 24, 1925. diags map Gen Elec R 28:151-7 Mr '25
Observations on residual ionization in a closed vessel, taken at Biwabic, Minnesota, during the solar eclipse of January 24, 1925. H: A. Erikson. J Fr Inst 200:505-6 O '25
Observations on the variations of the potential gradient of the atmosphere taken at the University of Minnesota during the time of the eclipse of January 24, 1925. A. Zeleny. J Fr Inst 200:501-3 O '25
Solar eclipse. il Sci Am 132:86 F '25
Solar radiation during the total eclipse of January 24, 1925. H. E. Seemann. J Fr Inst 200:629-33 N '25
Two outstanding features of the eclipse; origin of the shadow bands and of the diamond ring. H: N. Russell. il Sci Am 132:221-2 Ap '25
United States Bureau of standards eclipse observations. G: K. Burgess. il Sci Am 133: 170-1 S '25
Why was the moon late? il Sci Am 132:223 Ap '25
See also Radio communication, Effect of eclipses on

ECONOMIC conditions
Commercial history and review of 1924. Economist 100:sup3-77 F 14 '25
Diffusion of industry and the international market for manufactures. E. M. Miller. Econ W n s 27:6-10 Ja 5 '24
Economic effect of surplus producing capacity. W. R. Ingalls. Annalist 23:627-8 Je 2 '24
Economic prospects of 1924. H. Hoover. Bldg Age 46:53-4 Ja '24
Economic reviews of foreign countries with statistical data including material for noncontiguous territories of the United States, 1924. 142p U.S. Bur. of for. and dom. com., Washington '25
Forces in motion mark solid progress toward peace and prosperity for the coming year. H. Hoover. Comm & Fin Chr 120:18 Ja 3 '25
Our philosophy of despair. R. G. Tugwell. Univ J of Business 2:428-31 S '24
Progress in world trade, 1923-1924. F. Johnston. il Am Exporter 94:9-13+ Ja '24
World economic situation. G. A. O'Reilly. Mech Eng 47:745-6 S '25
See also Business conditions; Economic policy; Geography, Commercial; Natural resources; Progress; *also* subdivision Economic conditions under names of countries, e.g. Europe—Economic conditions; France—Economic conditions; United States—Economic conditions

ECONOMIC councils
German and French national economic councils. R. Picard. Int Labour R 11:803-29 Je '25

ECONOMIC foundation
Creation of Economic foundation. Comm & Fin Chr 117:2598 D 15 '23; Bankers M 108: 113 Ja '24

ECONOMIC geography. See Geography, Commercial; Geography, Economic

ECONOMIC policy

Economic peace. R: R. Bowker. [with Covenant of sovereign peoples] 26p; 32p Putnam '23

Facing the facts of the transfer problem. J. Stamp. Annalist 26:181 Ag 14 '25

International economic policies. W: S. Culbertson. 575p Appleton '25

See also Commercial policy; Dumping (commercial policy); Free trade and protection; Municipal ownership; Tariff

ECONOMIC research

Bureaux for economic and business research in American universities. Z. C. Dickinson. Econ J 35:398-415 S '25

ECONOMIC statistics

Statistical record, 1924, monthly data. R Econ Statis 7:sup105-68 Jl '25

ECONOMIC surveys

World economic survey planned. Bradstreet's 52:733 N 15 '24

ECONOMIC world conference (proposed)

Economic world conference—trade barriers to be overcome. Comm & Fin Chr 120:628-30 F 7 '25

ECONOMICS

Absentee ownership and business enterprise in recent times. T. Veblen. 445p Huebsch '23

Alfred Marshall, 1842-1924. J. M. Keynes. Econ J 34:311-72 S '24

American's economic credo. A. H. Temple. Comm & Fin 14:333 F 18 '25

Common wealth. C. G. Campbell. 472p Century '25

Current economic problems; a series of readings in the control of industrial development. W. H. Hamilton. 3d ed., rev. and enl. 960p Univ. of Chicago press '25

Economic justice; a text-book of political economy from the Christian point of view. G. Collier. 256p Doran '24

Economic principles. A. W. Flux. 2d ed. 305p Dutton '23

Economic problems of industrial organization. F: C. Mills. Management & Adm 7:215-19, 337-41, 423-6, 573-6 F-My '24

Economics and ethics. J: A. R. Marriott. 293p Dutton '23

Economics for business men. W. J. Weston. 260p Pitman '23

Economics for citizenship. W. D. Moriarty. 544p Longmans '25

Economics for everyman. J. E: LeRossignol. 335p Holt '23

Economics of a moron. A. Bradbury. Ptr Ink 126:61-2+ Ja 3 '24

Economics of freedom. D: Atkins. 349p Duffield & co., New York '24

Economics of the hour. J: St L. Strachey. 234p Putnam '23

Economics of welfare. A. C. Pigou. 2d ed. 783p Macmillan '24; Review, by F. Y. Edgeworth. Econ J 35:30-9 Mr '25

Economy of human energy. T: N. Carver. 287p Macmillan '24

Essays in economic theory. S. N. Patten. 399p Knopf '24

Groundwork of economics. R. Mukerjee. 217p Longmans '25

Industry and civilisation. C. D. Burns. 278p Macmillan '25

Marxian economic handbook and glossary. W. H. Emmett. 350p International publishers, New York '25

Outline of the elements of economics. W: H: Kiekhofer. 5th ed., rev. 135p G. Banta pub. co., Menasha, Wis. '23

Papers relating to political economy. F. Y. Edgeworth. 3v Macmillan; Review, by A. C. Pigou. Econ J 35:177-85 Je '25

Plain talks on economics. F. Franklin. 353p Putnam '24

Principles of economics. R. T. Bye. 508p Knopf '24

Principles of economics. F. M. Taylor. 9th ed. 589p Ronald press '25

Principles of economics, with special reference to American conditions. E. R. A. Seligman. 711p Longmans '23

Principles of political economy. C: Gide. 555p Heath '24

La production des richesses. R. Masse. Chimie & Ind 13:145-50 Ja '25

Questions of the hour. A. Milner. 173p Doran '23

Saving and the monetary system. C. F. Bickerdike. Econ J 35:366-78 S '25

Statistics and economic theory. W. M. Persons. R Econ Statis 7:179-97 Jl '25

Theory of quadrature in economics. K. G. Karsten. charts Am Statis Assn J 19:14-29 Mr '24

Theory of social economy. G. Cassel. 628p Harcourt '23

Trend of economics. R. G. Tugwell, ed. [Bibliog. p. 497-533] 556p Knopf '24

See also Agriculture—Economic aspects; Banks and banking; Business; Capital; Commerce; Communication and traffic; Competition; Consumption (economics); Co-operation; Cost; Cost of living; Credit; Debts, Public; Depreciation; Economic conditions; Economic policy; Family allowances; Finance; Food supply; Free trade and protection; Government ownership; Government regulation of industry; Housing; Income; Index numbers; Industrial relations; Industry; Interest; Labor and capital; Labor and laboring classes; Land; Manufactures; Money; Overproduction; Panics; Population; Prices; Production; Profit; Profit sharing; Rent; Saving; Socialism; Speculation; Statistics; Strikes and lockouts; Supply and demand; Tariff; Taxation; Trade unions; Transportation; Trusts, Industrial; Value; Wages; Wealth

Bibliography

Economic and sociological periodicals in the New York public library; economic monographs. N Y Public Lib Bul 28:743-62 O '24

Preliminary guides to economic sources. H: Harap and E. Miller. Lib J 50:528-30 Je 15 '25

Reviews of statistical and economic books. Published in Journal of the Royal statistical society

Statistical and economic articles in recent periodicals. Published in Journal of the Royal statistical society

History

Early economic thought; selections from economic literature prior to Adam Smith. A. E. Monroe. 400p Harvard univ. press, Cambridge '24

History of the theories of production and distribution in English political economy from 1776 to 1848. E. Cannan. 3d ed. P. S. King & son, ltd., London '24

Short history of mercantilism. J: W. Horrocks. 249p [bibliog. p. 219-21] Brentano's '25

Study and teaching

Economics for employees, methods and content; report of committee. 18p Am. management assn., New York '24

Elements of economics; why, when, where and how teach. E. E. Sheldon. Am Management R 14:148-50 My '25

Experiment in the teaching of economics and kindred subjects. A. L. G. Mackay and H. Heaton. Econ J 34:219-26 Je '24

Let us train public-utility employees in economics. N. C. Miller. Elec J 21:462-3 O '24

Teaching economics through the employees' publication. D. C. Vandercook. Ind Management 69:308-11 My '25

ECONOMIZERS. See Fuel economizers

ECUADOR

See Geology—Ecuador; Petroleum—Ecuador; Petroleum industry and trade—Ecuador

EDDIES. See Hydrodynamics

EDDY currents

Eddy current losses in armature conductors. R. E. Gilman. Am Inst E E J 43:194-6 Mr '24; Discussion. 43:1170-3 D '24

EDDY currents—*Continued*
Eddy current losses in twisted conductors. L. Fleischmann. Am Inst E E J 43:1062-4 N '24
Eddy currents cause of trouble with armature bands. E. Kalen. diags Ind Eng 83: 205 Ap '25
Properties and testing of magnetic materials. T. Spooner. Elec J 22:132-5, 508-14 Mr, O '25

See also Iron losses; Stray currents

EDGAR, Charles L.
Portrait. Forbes 15:159 N 1 '24

EDGEWORTH, F. Y.
Papers relating to political economy. F. Y. Edgeworth. 3v Macmillan; Review, by A. C. Pigou. Econ J 35:177-85 Je '25

EDINBURGH, Scotland
Planned cities. T: Adams. il Am Inst Arch J 12:1-12 Ja '24

Rapid transit
Edinburgh corporation tramways. R. S. Pilcher. Elec R (Lond) 95:75 Jl 11 '24

EDISON, Thomas Alva, 1847-
The Edison of 1879. F. Jehl. il Elec W 84:595-8 S 20 '24
Menlo Park fittingly commemorated by the Edison pioneers. il Elec W 85:1093 My 23 '25; N E L A Bul 12:477 Jl '25
Portrait. Elec W 84:558 S 20 '24
Thomas A. Edison, the inventor and scientist. J: R. Hewett. Gen Elec R 27:238-44 Ap '24

EDISON electric illuminating company, Boston
How Boston Edison anticipates needs of its territory. J. Heywood. il Forbes 15:159-62 N 1 '24

See also Electric plants (central stations)—Weymouth, Massachusetts

EDISON industries
Practical results of budgeting. R. H. Allen. Management & Adm 9:527-30 Je '25; Same. Paper Tr J 81:61-3+ O 15 '25
Workable production control system: Edison phonograph works. E: Davis. il Am Mach 60:753-7, 835-8, 911-14; 61:7-10 My 22, Je 5, 19, Jl 3 '24

EDISON lighting institute
Demonstrating the advantages of better light. H. K. Lynn. il J Elec 54:220-1 Mr 15 '25
Edison lighting institute. il Manuf Rec 87:79 F 19 '25; Elec W 85:466-8 F 28 '25

EDISON medal
Edison medal awarded to John White Howell. por Am Inst E E J 44:87 Ja '25; Elec W 84: 1323 D 20 '24
Edison medal for 1923 awarded to John W. Lieb. Am Inst E E J 43:70 Ja '24; Elec W 82:1287 D 22 '23
Edison medal presented to John White Howell. Am Inst E E J 44:309-11 Mr '25; Same. Stevens Ind 42:30-4 Mr '25

EDITING of copy. See Printing, Practical

EDITORIALS
Editorials in the country newspaper. E. Sherman. Inland Ptr 72:599-600 Ja '24

EDITORS
Arousing interest; Julius Caesar as a model to follow. S. Norvell. Ptr Ink 129:159+ O 30 '24
Editor as a personality. H. Pressfield. Inland Ptr 75:244 My '25
How publishers measure an editor's value. Ptr Ink 126:141+ Ja 24 '24

EDSTRÖM, Johannes Sigfrid
Making of a leader in business world. A. B. Sloane. por Forbes 14:603-5+ Ag 15 '24

EDUCATION
Educating to block radicalism. A. A. Potter. Am Ind 25:20-2 Jl '25
Education, research, and standardization. J: Dewrance. Brass W 21:351-2, 380-1 O-N '25
Industry and education. Bain. Chem Age (Lond) 11:575 D 6 '24
Money value of education. Bankers M 109: 1080 D '24
What to do after quitting time. T. Finty, jr. Comm & Fin 13:1357-8 Jl 16 '24

See also Architectural education; Business education; Chemical education; College education; Colleges and universities; Corporation schools; Education of workers; Engineering education; Evening and continuation schools; Industrial education; Mining schools and education; Moving pictures in education; Public schools; Scholarships and fellowships; Scientific education; Teaching; Technical education; Trade schools; Vocational schools

Finland
Vocational and other educational training by employers in Finland. Monthly Labor R 17: 1413-14 D '23

Russia
Vocational education in soviet Russia. B. A. Nikolsky. Int Labour R 12:386-401, 500-22 S-O '25

EDUCATION of workers
Education, the machine and the worker. H. M. Kallen. 204p New Republic, Inc., New York; Review. Ry Age 79:72-3 Jl 11 '25
Means of carrying education to adult workers. Monthly Labor R 21:855-7 O '25
New experiment in education for workers. H. Coy. Monthly Labor R 20:1220-1 Je '25
Utilisation of leisure in Austria. Int Labour R 9:233-8 F '24
Workers' education in Czechoslovakia. Monthly Labor R 21:857 O '25
Workers education year book 1924. 199p [bibliog. p. 191-7] Workers educ. bur. of America, 476 W. 24th st., New York '24
Working-class education. J. F. Horrabin and W. Horrabin. 93p Labour pub. co., ltd., London '24

See also Evening and continuation schools

Bibliography
Recent references on adult workers' education. L. A. Thompson. Monthly Labor R 19:692-705 S '24

EDUCATIONAL measurements

See Ability tests

EDUCATIONAL research
Educational research. Special Lib 16:89 Mr '25

EFFICIENCY
Re-discovering America; by a returned business man. Ptr Ink M 11:35-6+ N '25
Skill in work and play. T. H. Pear. 107p Dutton '24

EFFICIENCY, Government
Influence of scientific management upon government—federal, state and municipal. M. L. Cooke. Taylor Soc Bul 9:31-8 F '24
Proposed program for installing efficiency devices in the offices of Cook county. J. L. Jacobs. W Soc E J 29:[current news]34-6 F '24

EFFICIENCY, Industrial
Does good lighting pay its way in industrial plants? il Factory 34:932-3 Je '25
Economics of fatigue and unrest and the efficiency of labour in English and American industry. P. S. Florence. 426p Holt '24
Economy—as necessary in good times as in bad. F. Saunders. Ind Management 70:263-4 N '25
Effect of brightness on the precision of visually controlled operations. P. W. Cobb and F. K. Moss. diag J Fr Inst 199:507-12 Ap '25
Efficiency and wages in the United States. J. J. Davis. Monthly Labor R 20:957-61 My '25
Forty-eight hour week and industrial efficiency. P. S. Florence. Int Labour R 10:729-58 N '24
Foundations of national industrial efficiency. V. Custis. 324p Macmillan '23
Has industry its own remedy for labor shortage? W: R. Basset. il Factory 32:307-10+ Mr '24

EFFICIENCY, Industrial—*Continued*
Industrial psychology and the production of wealth. H. D. Harrison. 184p [bibliog. p. 176-80] Dodd '25
Inefficiency and waste in American industry. B: P. Chass. Ind Management 70:239-41 O '25
Is industry poikilothermal? D. A. Laird. il Prof Eng 9:8-10 S '24
King of loafers; American business man. W. Feather. Comm & Fin 13:2115-17 O 29 '24
Labor efficiency in good times and bad. N. I. Stone. 13p American management assn., 20 Vesey st., New York '24
Die lehre vom wirtschaften, wesen und zusammenhänge. A. Schilling. 297p VDI-verlag, Berlin '25
Let each man prove his value. H. Emerson. Am Management R 13:4-6 S '24
Maschinen- und handarbeit. diags Zeit Ver Deutsch Ing 69:275-9, 382-4 F 28, Mr 21 '25
Production and efficiency of labor. See monthly numbers of Monthly labor review
Skill in relation to production. L. A. Legros. Engineering 119:223-4, 272-3 F 20-27 '25
Translating high labor rates into lower costs. D. C. Lowles. Am Management R 14:211-13 Jl '25
Up to his neck in nothing. J. H. Collins. Ptr Ink 132:3-4+ Jl 9 '25
Why systems fail. R. J. Andersen. Taylor Soc Bul 10:203-6 Ag '25

See also Ability tests; Business management; Employment management; Executives; Factory management; Factory sanitation; Fatigue; Foundry management; Industrial management; Motion study; Office management; Planning; Power plants—Management; Routing systems; Time saving; Time study; *also* Society of Industrial engineers

EFFLORESCENCE
Disintegration of stone from efflorescence. Am Inst Arch J 13:41-2 Ja '25
Efflorescence in concrete products. A. S. Bowes. Eng & Contr (Bldgs) 62:208-9 Jl 23 '24
Getting rid of efflorescence on gypsum plaster. F. C. Welch. Chem & Met Eng 31:263-4 Ag 18 '24

Bibliography

Descriptive bibliography of scumming and efflorescence. F. G. Jackson. Am Cer Soc J (Bul) 8:376-401 Ag '25

EGG trade
Scientific marketing of farm products as illustrated by the marketing of eggs. E. W. Benjamin. bibliog Ann Am Acad 115:106-15 S '24

EGGERS, Otto R.
Appreciation of the renderings of Otto R. Eggers, architect. S: Chamberlain. il Am Arch 128:39-42 Jl 15 '25

EGLIN, William C. L., 1870-
Newly elected president of the Franklin institute. por J Fr Inst 197:286-7 F '24

EGYPT
British-Egyptian crisis. Bradstreet's 52:765 N 29 '24
Cotton factor in the Egyptian dispute. S. Bell. Comm & Fin 13:2335 D 3 '24
What Great Britain has done and purposes doing in Egypt. R. Hoskins. Econ W n s 29:511-13 Ap 11 '25

See also Automobile industry and trade—Egypt; Banks and banking—Egypt; Debts, Public—Egypt; Electric industries—Egypt; Irrigation—Egypt; Prices—Egypt; Railroads—Egypt; Shoe industry and trade—Egypt; Water supply—Egypt

Antiquities

New knowledge of old Egypt. il Sci Am 132: 158-9 Mr '25

See also Obelisks; Tut-ankh-amon, Tomb of

Commerce

Egypt as Yankee market. Am Ind 25:44-5 F '25
What can American manufacturers sell in Egypt—and how? G: deW. Young. il Sales Management 8:263-4+ F 7 '25

EGYPT, Ancient
Copper and gold mines of the ancient Egyptians. T. A. Rickard. il map Eng & Min J 119:1005-12 Je 20 '25

EHRLICH, Paul, 1854-1915
Appreciation of his career. A. E. Wood. Chem Age 33:65-7+ F '25

EICOSANIC acid
Note on rambutan tallow as a source of *n*-eicosanic acid ($C_{19}H_{39}COOH$). G. T. Morgan and E. Holmes. Soc Chem Ind J 44: 219 My 8 '25
Observations on the higher fatty acids. G. T. Morgan and A. R. Bowen. Soc Chem Ind J 43:346-8 D 5 '24

EIFFEL, Alexandre Gustave, 1832-1923
Sketch. por Engineering 117:19 Ja 4 '24; Génie Civil 84:21 Ja 5 '24; Eng N 92:206-7 Ja 31 '24; Mech Eng 46:106 F '24

EIGHT-hour day. See Hours of labor

EINSTEIN theory
Einstein theory explained and analyzed. S: H. Guggenheimer. 326p Macmillan '25
Einstein theory; relativity and gravitation. L. F. Gruber. 84p Lutheran literary board, Burlington, Ia. '23
Electric forces and quanta. J. H. Jeans. Inst E E J 63:483-9 My '25; Same cond. Engineer 139:181-3 F 13 '25; Abstract. Engineering 119:200-1 F 13 '25
Foundations of Einstein's theory of gravitation. E. Freundlich. 140p Dutton '24
Note on Mr Harward's paper on the identical relations in Einstein's theory. J. A. Schouten and D. J. Struik. Philos Mag 6th ser 47: 584-5 Mr '24
Relativity. A. S. Eddington. Engineering 118: 535-6 O 17 '24
Remarkable new tests favor the Einstein theory. H: N. Russell. il Sci Am 133:88 Ag '25

See also Relativity (physics)

EJECTION devices. See Presses—Ejection devices

EJECTORS. See Steam jets

ELASTIC fabrics
Elastic webbing for garters, suspenders and braces. India Rubber W 73:13 O '25

ELASTIC limit
Détermination industrielle de la limite élastique des aciers. J. Durand. il Génie Civil 84:205-8 Mr 1 '24
Dynamic elastic limit in tension. G. Welter. Engineer 140:sup110-11 Jl 31 '25; Same. Eng & Contr (Bldgs) 64:683-5 S 23 '25
Elastic limit in tension, and its influence on the breakdown by fatigue. J. M. Lessells. il diags Engineering 118:813-14 D 12 '24; Abstract. Engineer 138:662-3 D 12 '24; Discussion. Engineering 118:794-5; 119:10-11 D 12 '24, Ja 2 '25
Limite élastique et résistance à la rupture de barreaux soumis à des efforts combinés de torsion avec traction ou avec compression. J. Seigle. diags Génie Civil 87:345-9 O 24 '25
Significance of the elastic limit, elongation and impact strength in construction. P. Ludwik. Engineer 139:sup45-7 Mr 27 '25; Same. Eng & Contr (Bldgs) 63:1404-7 Je 24 '25
Die statische und dynamische elastizitätsgrenze im materialprüfungs- und konstruktionswesen. G. Welter. diags Zeit Ver Deutsch Ing 68:9-11 Ja 5 '24
Strength and elastic limit of annealed mild steel under combined tension and torsion. J. Seigle and F. Cretin. Engineer 140:sup134-6 S 25 '25

ELASTICITY
Applied elasticity. J: Prescott. 666p Longmans '24
Approximate solution of two-dimensional problems in elasticity. S. Timoschenko. diags Philos Mag 6th ser 47:1095-1104 Je '24

ELASTICITY—*Continued*
Certain types of elastic stresses which are peculiarly related to each of the several curvilinear orthogonal coordinate systems. R. F. Gwyther. Philos Mag 6th ser 47:679-89 Ap '24
La détermination de la résistance des systèmes hyperstatiques. H: Barth. Génie Civil 84:478-80 My 17 '24
Elasticity and high speeds. A. T. Kasley. Sci Am 130:161 Mr '24
Elasticity of gelatin in relation to pH and swelling. G. W. Scarth. bibliog J Phys Chem 29:1009-22 Ag '25
Elasticity of pipe bends. S. Crocker and S. S. Sanford. Mech Eng 45:159-64 Mr '23; Discussion. 45:164; 46:159-60, 563-4 Mr '23, Mr, S '24
Experiments on the duration of impacts, mainly of bars with rounded ends, in elucidation of the elastic theory. J. E. P. Wagstaff. diags Philos Mag 6th ser 48:147-58 Jl '24
Fatigue tests of metals and the theory of elasticity. H. F. Moore. Eng N 94:225-6 F 5 '25
Internal mechanics of fibres considered in relation to general colloid theory and technical practice. S. A. Shorter. Soc Dyers & Col J 41:207-16 Je '25
Investigation of the nature of the elasticity of fibres. S. A. Shorter. bibliog il diags Textile Inst J 15:T207-29 Ap '24
Limite d'élasticité et module d'élasticité dans les produits métallurgiques. L. Guillet. Génie Civil 86:626-8 Je 27 '25
Modulus of elasticity. Engineer 137:45 Ja 11 '24
Plasticity and elasticity. E. C. Bingham. diags J Fr Inst 197:99-115 Ja '24
Relations between Young's modulus and other physical quantities. J. P. Andrews. Philos Mag 6th ser 50:665-74 O '25
Resilient energy criterion as applied to the shape of the rubber stress-strain curve. W: B. Wiegand. Ind & Eng Chem 17:623-5 Je '25
Simple formal solution of the general equations of elastic stress. R. F. Gwyther. Philos Mag 6th ser 47:965-72 My '24
Strain components in curvilinear coordinates. A. W. Conway. Philos Mag 6th ser 49:511-12 F '25
Über das wesen der plastischen verformung. H. Hencky. Zeit Ver Deutsch Ing 69:695-6, 1253-4 My 16, S 26 '25
Variation of stress-strain properties of nitrocellulose-camphor mix with its composition. P. Heymans and G. Calingaert. Ind & Eng Chem 16:939-40 S '24
See also Deformations (mechanics); Elastic limit; Hysteresis; Photoelasticity; Plasticity; Poisson's ratio; Strains and stresses; Strength of materials; Vibration

ELATERITE
Marketing the natural hydrocarbons. S. D. Kirkpatrick. il Eng & Min J 119:330 F 21 '25

ELBOWS, Pipe. See Pipe elbows

ELDER, John, 1824-1869
Centenary of John Elder. E. C. Smith. Engineer 137:273-4 Mr 14 '24

ELECTIONS

Great Britain
Analytical digest of the general election in 1923. Economist 99:486, 605-6 S 27, O 18 '24

United States
Maine election. Moody's Inv Serv 16:353-6 S 18 '24
Sex cleavage in the presidential election of 1920. M. M. Willey and S. A. Rice. Am Statis Assn J 19:519-20 D '24

ELECTRIC alarms
Die elektresor-kassensicherung E/III. W. Blut. il diags Elektrotech Zeit 46:150-7 Ja 29 '25
See also Burglar alarms

ELECTRIC apparatus and appliances
Developments in the electrical industry during 1924. J: Liston. il diags Gen Elec R 28: 4-62 Ja '25; Excerpts. Blast F & Steel Pl 13:84-6 F '25; Power Pl Eng 29:195-8 F 1 '25
Economic aspect of the utilization of permanent magnets in electrical apparatus. E. A. Watson. diags Inst E E J 63:822-34; Discussion. 834-8 Ag '25
Electric fruit marker prevents quality substitution. il J Elec 51:369 N 15 '23
Electric waves to locate metals. Eng & Min J 119:967 Je 13 '25
Electrical slate. D. Harvey and J: J. Keyes. Am Soc T M Pro 23 pt 2:535-44; Discussion. 555-69 '23
Engineering achievements; Westinghouse developments of interest to the steel industry during the year 1923. H. W. Cope. Blast F & Steel Pl 12:29-34 Ja '24
Industrial and domestic power committee. Am Inst E E J 43:754-60 Ag '24
Influence exerted by altitude on apparatus. K. Lubowsky. Elec W 84:109-10 Jl 19 '24
New developments in design, application and operation of electrical operation; report of Pacific coast electrical association. J Elec 54:453-501 Je 1 '25
Practical control of electrical energy. A. G: Collis. 160p Oxford '23
Proof of waste in packing. G: W. Johnston. Elec W 84:442-3 Ag 30 '24
Recent developments in electrical laboratory equipment. F. S. Wheeler. il diags Elec J 22:544-50 N '25
Report of the N.E.L.A. electrical apparatus committee. Elec W 85:1340-1 Je 20 '25
Report of N.E.L.A. electrical apparatus committee shows steady progress. il diags Power Pl Eng 29:1004-8 O 1 '25
Review of developments in electrical apparatus; an abstract of the N.E.L.A. 1924 report. il diags Power Pl Eng 28:649-52 Je 15 '24
Some developments in the electrical industry during 1923. J: Liston. il diags Gen Elec R 27:9-60 Ja '24; Same cond. N E L A Bul 11: 13-19 Ja '24
Special electrical requirements. J: E. Dutcher. il diags Am Arch 125:118-22 Ja 30 '24
V D E: ausschuss für elektrische handgeräte. Elektrotech Zeit 46:825-8 My 28 '25
See also Armatures; Automobiles—Electric equipment; Balancer sets; Burglar alarms; Coils; Commutators; Condensers (electricity); Converters, Electric; Converters, Synchronous; Electric apparatus and appliances, Domestic; Electric batteries; Electric circuit breakers; Electric controllers; Electric current inverters; Electric current rectifiers; Electric equipment; Electric fans; Electric furnaces; Electric fuses; Electric generators; Electric industries; Electric instruments; Electric lamps; Electric machinery; Electric meters; Electric motor generators; Electric motors; Electric precipitation; Electric protective apparatus; Electric railroads—Equipment and supplies; Electric shovels; Electric signals; Electric standards; Electric switches; Electric transformers; Electricity in mining; Electricity in the home; Electricity on the farm; Electromagnets; Electrotherapeutics—Apparatus and instruments; Fire alarms; Galvanometers; Incubators, Electric; Inductance coils; Relays; Rheostats; Ships—Electric equipment; Spark plugs; Storage batteries; Switchboards; Telpherage; *also* Westinghouse electric and manufacturing company

Care
Care and operation of electrical apparatus. Locomotive 35:166-71 Ap '25

Design
Designer of electrical apparatus. J. M. Hipple. Sibley J 38:36-7 F '24

ELECTRIC apparatus and appliances—*Cont.*

Exhibitions

Das haus der elektrotechnik auf der frühjahrsmesse in Leipzig. E. Orlich. il diags Elektrotech Zeit 45:609-15 Je 12 '24

Das haus der elektrotechnik auf der Leipziger herbstmesse 1924. E. Orlich. il diags Elektrotech Zeit 45:1133-8 O 23 '24

Manufacture

Costing of winding and insulating coils. F. C. Lawrence. Elec R (Lond) 95:242-4, 278-80, 318-19, 375-6, 409-10, 445-6 Ag 15-S 19 '24; Discussion. F: W. Pope. 95:487 S 26 '24

Typical big plant with a variety of products; how the Westinghouse electric & mfg. co. handles materials at East Pittsburgh. M: W. Potts. il Ind Management 70:89-95 Ag '25

Merchandizing

Are you neglecting sixty-five per cent of your market? W. S. Vivian. Ptr Ink 125:97-100 N 29 '23

Depreciation, liquidation and instalment selling. Ptr Ink 131:69-70 Je 4 '25

Domestic market possibilities for electrical merchandising lines. R. A. Lundquist and H. E. Way. U S Bur For & Dom Com Trade Promotion Ser 9:1-17 '24

Electragists find appliance discounts inadequate. W. C. Peet. Elec W 84:63 Jl 12 '24

See also Electric apparatus and appliances, Domestic—Merchandizing; Electric light fixtures—Merchandizing; Electric shops (retail trade)

Repair

Keeping appliances at work. il Elec W 84: 1008-9 N 8 '24

Standards

Advantages of uniform ordinance. T. E. Barnum. Elec W 85:452-3 F 28 '25

Simplification in line hardware. L. J. Kirby. Elec W 85:322-3 F 7 '25

Temperature

Altitude correction for temperature rise. R. E. Doherty and E. S. Carter. Elec W 84: 420-1 Ag 30 '24; Discussion. Am Inst E E J 44:283-8 Mr '25

Temperature rise of stationary electrical apparatus as influenced by radiation, convection and altitude. V. M. Montsinger and W. H. Cooney. il diags Am Inst E E J 43: 803-12 S '24; Discussion. 44:283-8 Mr '25

Testing

Testing electrical apparatus. J: D. Harnden. 217p General elec. review, Schenectady, N.Y. '24

ELECTRIC apparatus and appliances, Domestic

Abolition of household slavery. M. Pattison. Ann Am Acad 118:124-7 Mr '25

Consumption and revenue from domestic appliances. Elec W 86:228 Ag 1 '25

Domestic applications of electricity. T. Hall. Elec R (Lond) 95:954-5; Discussion. 955 D 19 '24

Electrical appliances in the home. A. C. Lescarboura. il Dun's Int R 45:37-40+ Ap '25

Five-billion-dollar appliance business; addresses at N.E.L.A. convention. Elec W 85: 1350-1 Je 20 '25

Forty electric devices feature this house. C. H. Vivian. il plan Bldg Age 46:74-5 O '24

Interchangeable worm-and-gear speed reductions. G: L. Hedges. Mach 31:682-4 My '25

Survey of appliance and lighting load. diag Elec W 86:375-6 Ag 22 '25

Teaching customers to care for appliances. il Elec W 85:209 Ja 24 '25

Value of the household appliance load; report of N.E.L.A. committee. Elec W 85:1321-2 Je 20 '25

Wattage and earnings for various electrical appliances in the home. N E L A Bul 11: 520-1 Ag '24

See also Electric coffee percolators; Electric irons; Electric stoves; Electric toasters; Electricity in the home; Washing machines, Electric

Advertising

How to advertise electrical apparatus. W. E. Warrilow. Electrician 91:697 D 21 '23

See also Washing machines, Electric—Advertising

Cost of operation

Answering the appliance operating cost question. il diag J Elec 54:24 Ja 1 '25

Visualizing appliance operation cost. il J Elec 51:409 D 1 '23

Merchandizing

Advantages of limiting merchandise lines. C. A. Nash. Elec W 85:983 My 9 '25

Appliance distribution in seven small Pacific coast cities. J Elec 53:271-6 O 15 '24

Branch-office merchandise stock control. C. O. Dunten. il Elec W 85:724-5 Ap 4 '25

Campaign plan sells appliances worth $112,392. Elec W 85:933-4 My 2 '25

Cash-and-carry increases special appliance sales. Elec W 85:108 Ja 10 '25

Central station load-building appliance campaign. A. Strauch. J Elec 54:243-4 Ap 1 '25

Central station merchandising—a study of the programs of western companies. J Elec 55: 279-83 O 15 '25

Checking up on the number of appliances in use. J Elec 52:64 Ja 15 '24

Defense of $1 down. H. L. Ogg. Ptr Ink 132: 73-4+ Ag 27 '25

Development of residence service and profitable sales of merchandise appliances and service. N. T. Wilcox. N E L A Bul 11:241-3 Ap '24

Henry Ford methods in appliance field. J. H. Reichart. Elec W 85:173 Ja 17 '25

Ideas that sold electrical Christmas gifts. J Elec 53:372-5 N 15 '24

Increasing the use of electrical appliances; report of committee of Pacific coast electrical association. J Elec 54:389-90 Je 1 '25

Joint merchandising for Philadelphia; central-station company agrees to take over the finance electrical dealers' appliance sales. Elec W 86:956 N 7 '25

Merchandising electrical appliances. E: N. Hurley. N E L A Bul 12:489-93 Ag '25; Abstract. Elec W 86:91 Jl 11 '25

Merchandising in Chattanooga. H. M. Camp. Elec W 83:1281-3 Je 21 '24

More than 8,000,000 potential new buyers of domestic electric appliances. Elec W 83:42-4 Ja 5 '24

Nine merchandise sales programs prepared by Pacific gas and electric company. J Elec 55:106-7 Ag 1 '25; Elec W 86:77 Jl 11 '25

Profit sharing in electrical appliance sales. H. C. Hueglin. Elec W 84:920-1 O 25 '24

Promotion of electric appliance sales; report of committee of Pacific coast electrical association. J Elec 52:395-6 Je 1 '24

Proposed plan for improving and increasing electric appliance sales. G: W. Barker. J Elec 52:491-3 Je 15 '24

Relation of appliance sales to family income. map Elec W 86:523-4 S 12 '25

Sales campaigns build load and good will. A. C. Crandall. il Elec W 85:827-9 Ap 18 '25

Sell appliances, not the weather. G. W. Rauch. Elec W 86:323-4 Ag 15 '25

Selling of electric appliances is no problem to the department store; report of committee of Pacific coast electrical association. J Elec 52:394-5 Je 1 '24

Southern California Edison company's appliance campaign. A. W. Childs. J Elec 52:7-8 Ja 1 '24

Sweeney and the saxophone. R: E. Smith. J Elec 53:431-3 D 15 '24

ELECTRIC apparatus and appliances, Domestic —Merchandizing—*Continued*
Twelve month's new-business schedule of the Public service electric company results in 50 per cent increased sales. Elec W 83:196 Ja 26 '24
Wausau white-bag campaign. E. V. Pryor. Elec W 83:524-7 Mr 15 '24
Who retails electrical appliances? chart diags J Elec 52:279-84 Ap 15 '24
Who sells electrical appliances? Elec W 82: 1168-71, 1270-3; 83:91-3, 233-6, 427-30, 571-5, 671-5, 774-8, 822-30 D 8, 22 '23, Ja 12, F 2, Mr 1, 22, Ap 5, 19-26 '24
Will you get your share of the Christmas trade? il diag J Elec 51:342-7 N 1 '23
Will you sell electrical gifts for June brides? il J Elec 54:332-3 My 1 '25

See also Electric heaters—Merchandizing; Electric stoves—Merchandizing; Washing machines, Electric—Merchandizing

Statistics

Appliance sales possibilities of the West. J Elec 52:92-5 F 1 '24

ELECTRIC arc
Abnormal low voltage arc. C. Eckart and K. T. Compton. il diags Phys R 24:97-112 Ag '24
Boosting flame temperatures with the electric arc. G: T. Southgate. il diags Chem & Met Eng 31:16-19 Jl 7 '24
Diffusion of electrons against an electric field in the non-oscillatory abnormal low voltage arc. K. T. Compton and C. Eckart. diags Phys R 25:139-46 F '25
Electric arc without an intensely hot cathode. H. Stolt. J Fr Inst 199:133 Ja '25
Formation of colloid solutions by electrical pulverization in the high-frequency alternating current arc. E. O. Kraemer and T. Svedberg. diags Am Chem Soc J 46:1980-91 S '24
Low voltage arcs in phosphorus vapor. O. S. Duffendack and H. Huthsteiner. diags Phys R 25:501-8 Ap '25
Low-voltage arcs in rubidium and cæsium vapours. F. H. Newman. Philos Mag 6th ser 50:463-70 Ag '25
Low-voltage arcs in sodium and potassium vapours. F. H. Newman. diag Philos Mag 6th ser 49:1057-64 My '25
Manufacture of sodium nitrite by the arc process. H. K. Benson. Am Electrochem Soc Trans v 48 (preprint 9):93-7 S '25
Minimal length arc characteristics. H. E. Ives. il diags J Fr Inst 198:437-73 O '24
Produces electric arcs of million volts. Iron Tr R 73:1611 D 13 '23
Relation between current, voltage and the length of carbon arcs. A. E. R. Westman. 16p Univ. library, Toronto '23
Relation between current, voltage, and the length of carbon arcs. A. E. R. Westman and R. B. Walker. il diags Am Electrochem Soc Trans v 46 (preprint 24):345-59 O '24
Short-length tungsten arc characteristics. S. H. Anderson and G. G. Kretchmar. diags Phys R 26:33-43 Jl '25
Some phenomena in the electric arc process of nitrogen fixation. S. Karrer. Am Electrochem Soc Trans v 48 (preprint 3):25-32 S '25
Striking potential in the low-voltage mercury arc. M. Scott. diags Phys R 22:447-55 N '23
Striking potential necessary to produce a persistant arc in vacuum. F. Simeon. Philos Mag 6th ser 46:816-19 N '23
Studies in the projection of light. F. Benford. il diags Gen Elec R 27:199-207, 252-60 Mr-Ap '24
Theorie der lichtbogenschwingungen; abstract. E. Mayer. Elektrotech Zeit 45:219-20 Mr 13 '24

See also Electric lamps, Arc; Radio arc

ELECTRIC arc welding. See Electric welding, Arc

ELECTRIC associations
Directory of electrical associations; printed in the first issue of each volume of Electrical world. Elec W 84:50 Jl 5 '24
Electrical trade associations should be supported. C. B. Kenney. J Elec 54:215 Mr 15 '25

See also Incorporated municipal electrical association

ELECTRIC automobiles. See Electric vehicles

ELECTRIC batteries
A D primary cell. il Elec R (Lond) 94:433-4 Mr 14 '24
Application of the phase rule to galvanic cells. J. A. Beattie. Am Chem Soc J 46:2211-23 O '24
Cadmium in the electrical industry. N. F. Budgen. Electrician 94:271+ Mr 6 '25
Conditions affecting the reproducibility and constancy of Weston standard cells. W. C. Vosburgh. diag Am Chem Soc J 47:1255-67 My '25
Effect of various preparations of mercurous sulfate on the electromotive force and hysteresis of Weston standard cells. W. C. Vosburgh and M. Eppley. Am Chem Soc J 46:104-11 Ja '24
Efficient primary cell. il Engineer 137:636-7 Je 6 '24
Electrode, contact, and electro-kinetic potentials of galvanic cells. J. Heyrovsky. diags J Phys Chem 29:344-52 Mr '25
New calomel half cells for industrial hydrogen-ion measurements. H: C. Parker and C. A. Dannerth. diags Ind & Eng Chem 17: 637-9 Je '25
New career for the old wet battery. il Sci Am 131:333 N '24
Production of electric current. S: C. Miller. il Wireless Age 12:48-9+ F '25
Seat of electromotive force in the galvanic cell. J. A. V. Butler. Philos Mag 6th ser 48:927-35 N '24
Your radio batteries. M. Logan. diags Radio N 5:1578+ My '24

See also Concentration cells; Electrolytic cells; Kramer electronic battery; Storage batteries

ELECTRIC bells
Large uses of steel in small ways; electric bells. il Iron Tr R 76:884 Ap 2 '25

ELECTRIC boats
Electric launches at Wembley; the lakeside charging station. il Elec R (Lond) 95:491-2 O 3 '24

ELECTRIC bond and share company
Electric bond and share company—engineer. G: C. Cox. Annalist 25:518-19 Ap 13 '25
Mitchell, the man who saves millions for investors. B. C. Forbes. il Forbes 16:315-18+ Je 15 '25

ELECTRIC buses
Les essais controlés de véhicules électriques à accumulateurs (octobre 1924). C: Dantin. il diags Génie Civil 85:589-96 D 27 '24
European motor bus design. il Elec Ry J 64: 450-1 S 20 '24
Self-charging principle applied on 25-passenger bus. il diag Bus Transportation 3: 109-12 Mr '24

See also Motor buses, Gasoline-electric; Trackless trolley

ELECTRIC cable reels
Cable reel of simple design. H. L. Whittemore. diag Mach 30:925 Ag '24
Overcoming cable-reel problems. il Elec W 86:123 Jl 18 '25
Sectionalizing frames for cable reels. C. H. Shaw. il Elec W 83:679 Ap 5 '24

ELECTRIC cables
America's highest-voltage cable. il Elec W 84:1326 D 20 '24
Beiträge zu seilberechnungen. J. Kuusinen. diags Elektrotech Zeit 46:989-92 Jl 2 '25
Cable charge and discharge. C: P. Steinmetz. Am Inst E E J 43:525-30 Je '24
Câbles électriques à surfaces équipotentielles pour hautes tensions. diag Génie Civil 86: 93 Ja 24 '25
Les câbles électriques souterrains à haute tension. Génie Civil 86:17-18 Ja 3 '25

ELECTRIC cables—*Continued*
Calculation of the electrical problems of transmission by underground cables. D. M. Simons. diag Elec J 22:366-84 [bibliog. p. 382-4] Ag '25
Cheaper cables for rural electricity distribution. A. H. Seabrook. Elec R (Lond) 93: 771 N 23 '23
Current rating of single-conductor, lead-covered, low-tension cables on single-phase alternating-current circuits. S. W. Melsom and W. E. Beer. bibliog diags Inst E E J 63:190-203; Discussion. 203-6 F '25
Dielectric losses in cables. R. W. Atkinson. Elec W 85:1265 Je 13 '25
Dielectric losses in cables. F. A. Brownell. Elec W 86:218-20 Ag 1 '25
Dielektrische verluste von kabeltränkmassen. H. W. Birnbaum. Elektrotech Zeit 45:229-32 Mr 20 '24
Discussion of papers by R. W. Atkinson, J. F. H. Douglas and E. W. Kane. Am Inst E E J 44:295-6 Mr '25
Effect of shearing stress on the span calculations of a suspended cable. T. Ohtsuki. Inst E E J 61:1079-86 O '23
Electric cables for high pressures. E. B. Nixon. Elec R (Lond) 96:844 My 29 '25
Electric cables, their design, manufacture and use. W: A. Del Mar. 208p McGraw-Hill '24
Eliminating trouble by replacing crane trolley wires with flexible cable. il Ind Eng 82:499-500 O '24
Extra high-tension cable for the Morwell power scheme. il Engineer 137:508, 510 My 9 '24
Factors governing underground construction; report of Pacific coast electrical association. J Elec 54:450-1 Je 1 '25
Henley's new laboratories at Gravesend. il plan Electrician 93:634-6 D 5 '24; Engineer 138:607-8, 614 N 28 '24; Elec R (Lond) 95: 859-60 D 5 '24; Engineering 118:736-8 N 28 '24
High-pressure cables; abstracts. A. M. Taylor. diags Engineer 139:115-16 Ja 23 '25; Elec R (Lond) 96:157-8, 329 Ja 23, F 27 '25
High tension cables. L. B. Atkinson. Electrician 93:694-5 D 19 '24
High-tension transmission lines. E. V. Pannell. Engineer 137:272-3, 300-2 Mr 14-21 '24
High-voltage cables. E. A. Beavis. diag Elec R (Lond) 97:443-6 S 18 '25
High-voltage cables; abstracts of A.I.E.E. papers. Elec W 84:10-11 Jl 5 '24
Losses in grounded sheaths of single-conductor cables. H. B. Dwight. Elec J 21:62-6 F '24
Messenger-cable suspension for local distribution. F. A. Westbrook. il Elec W 82:1225 D 15 '23
New 130,000-volt Pierlli cable. P. Torchio. il diags Elec W 85:603-5 Mr 21 '25; Abstract. Elec R (Lond) 96:717-18 My 1 '25
132,000-volt Pirelli underground cable for New York. Am Inst E E J 44:734 Jl '25; Elec W 85:1359 Je 20 '25; Power Pl Eng 29:703 Jl 1 '25
Rigid underground cable operates at 100,000 volts. Elec W 83:1332 Je 28 '24
Rural distribution systems for electricity. A. G. Lang. Pub Works 55:30-1 Ja '24
Single versus multiple conductor cables. B. S. Curtis. Elec W 85:254-5 Ja 31 '25
Stahlaluminiumseile. A. Bürklin. Elektrotech Zeit 45:1143-6 O 23 '24
Sternvierer. H. Jordan. Elektrotech Zeit 45: 463-4 My 8 '24
Study of underground systems; report of committee of Pacific coast electrical association. diags J Elec 52:427-9 Je 1 '24
Super-tension cable dielectrics. A. I. Tracey. Engineer 139:580-1 My 22 '25
Three-wire direct-current distribution networks: some comparisons in costs and operation. H. W. Taylor. diags Inst E E J 63:337-48 Ap '25; Same cond. Engineering 119:87-9, 121-2 Ja 16-23 '25; Abstracts. Electrician 94:62 Ja 16 '25; Engineer 139: 75-6 Ja 16 '25; Elec R (Lond) 96:117-18 Ja 16 '25; Discussion. Inst E E J 63:348-67, 480-2 Ap-My '25; Elec R (Lond) 96:118-19 Ja 16 '25
Über die berechnung von stahlaluminiumleitungen. O. Strand. Elektrotech Zeit 45:654-7 Je 19 '24; Abstract. Elec W 84:326 Ag 16 '24
Underground cable practice in Europe. D. W. Roper. il W Soc E J 29:217-24 My '24; Abstract. Elec W 82:1267-70 D 22 '23; Discussion. 83:328-31 F 16 '24
Underground cable record system valuable. F. L. Rohrbach. il diag Elec W 82:1123 D 1 '23
Underground transmission. E. B. Nixon. diags Elec R (Lond) 95:765-7 N 21 '24
Use of aerial power cables in industrial plants. F. A. Westbrook. Ind Eng 82:203-4 Ap '24
Use of single-core armoured cables for alternating currents. G. M. Harvey and A. H. W. Busby. diags Inst E E J 63:368-78 Ap '25
Use of single-core cables on 3-phase systems. E. B. Nixon. diag Elec R (Lond) 94:329-30 F 29 '24
Use of single-core lead-covered and armoured cables for alternating currents. W. Cramp. Inst E E J 63:379-83 Ap '25; Discussion. 63: 690-1 Jl '25
Vergleich von drehstromkabeln verschiedener ausführungsformen. R. Dieterle and G. Eggeling. Elektrotech Zeit 45:1366-8 D 11 '24

See also Cables, Submarine; Electric conductors; Electric conduits; Electric distribution; Electric lines; Electric wire; Insulation (electric); Telephone cables; Telephone lines

Failures

High-voltage cables; N.E.L.A. report. Elec W 83:1087-91 My 24 '24
Lowering cable failures by good construction. R. L. Frisby. il diag Elec W 84:796-7 O 11 '24
Self corrosion of lead cable sheath. F: O. Anderegg and R. V. Achatz. Purdue U Eng Exp Sta Bul 13:1-46 '24
Underground cable systems; report of N.E. L.A. committee. diags Elec W 85:1313-16 Je 20 '25; Elec R (Lond) 97:475-6 S 18 '25

Installation

Cable-pulling tensions; tests with different size cables and conduits. W. G. Kelley. il Elec W 85:1015-18 My 16 '25
Cable-splicing instruction; report of Pacific coast electrical association. J Elec 54:451-2 Je 1 '25
Conduit pull-and-splice fitting. il Power 62: 622 O 20 '25
Installation and testing of 66-kv. cable. il map Elec W 82:667-9 Ap 5 '24
Installing cable across Hudson river. F. A. Westbrook. il Elec W 84:355-7 Ag 23 '24
Lace-wire puller hastens underground work. L. A. Bryant. il Elec W 83:1134 My 31 '24
Laying cable economically by special plow. J. W. Sylvester. il diags Elec W 82:1123-4 D 1 '23
New device for laying cables. il Eng N 94: 912 My 28 '25
Stringing transmission cable. O. Davidson. il Elec W 83:819-21 Ap 26 '24
Suspending armored cables in mines. W. E. Boyle. diags Elec W 83:95 Ja 12 '24

Joints

Cleveland 66-Kv. cable joint. H. L. Wallau. il diag Elec W 82:1058-61 N 24 '23
Conductor joints for underground cables. C. G. Watson. diags Elec W 86:371-3 Ag 22 '25
Design of high-tension cable joints. C. G. Watson. Elec W 84:896-7 O 25 '24
High tension cable joints. C. G. Watson. diags Electrician 95:466-7+ O 23 '25
Low-resistance cable joints. G. H. White. diag Power 61:267 F 17 '25
Modified N.E.L.A. cable joints. D. D. Clarke. diags Elec W 85:1269-70 Je 13 '25
Peculiar joint failures and observations. D. D. Clarke. il Elec W 85:773 Ap 11 '25

ELECTRIC cables—Joints—*Continued*
Study of high-tension cable joints; abstract with discussion. E. W. Davis and G. J. Crowdes. Elec W 85:1070-2 My 23 '25
Underground cable systems; report of N.E. L.A. committee. diags Elec W 85:1313-16 Je 20 '25; Elec R (Lond) 97:475-6 S 18 '25

Manufacture

Cable accessories co.'s works. il Elec R (Lond) 94:633 Ap 18 '24
Johnson and Phillips, an old-established electrical works. il Engineer 140:43 Jl 10 '25; Electrician 95:40 Jl 10 '25; Elec R (Lond) 97:50, 141-3 Jl 10, 24 '25
Making big and little cables. E. W. Clark. il Am Ind 25:20-2 D '24
Making high-tension cables; from old rope and oil waste to leak-proof conductors of current. F. A. Westbrook. il diags Sci Am 130:324-5+ My '24
Pirelli-general cable works. il Elec R (Lond) 97:419-21 S 11 '25
Progress in high-voltage cable manufacture. R. A. Paine, jr. Elec W 85:305-6 F 7 '25
Visit to the Prescot works of the British insulated & Helsby cables, ltd. il Elec R (Lond) 97:339-43 Ag 28 '25

Repair

Maintenance of cables in manholes. F. L. Rohrbach. il Elec W 82:1164-6 D 8 '23
Method of making a sleeve splice on heavy cables. S. H. Samuels. diag Ind Eng 83:152-3 Mr '25
Unit packages of material for making splices. C. H. Shaw. Elec W 83:384 F 23 '24

Standards

Underwriters to approve S.A.E. cable. Soc Auto Eng J 15:491 D '24

Temperature

Heating of large steel-cored aluminum conductors. R. J. C. Wood. Am Inst E E J 43:1021-4 N '24; Discussion. 44:398-9 Ap '25
Report on an investigation of the mechanical deterioration of impregnated cable paper when subject to various temperature tests. Am Inst E E J 44:508-10 My '25
Use of temperature detector for cables. H. B. Dwight. Elec W 85:506-7 Mr 7 '25

Terminals

Comparative cable wear with different types of duct endings. F. L. Rohrbach. il Elec W 84:845-6 O 18 '24
Insulating rubber cable ends to reduce leakage to a minimum. il Coal Age 26:555 O 16 '24
Oil-filled terminals for high voltage cables. E. D. Eby. il diags Am Inst E E J 44:593-600 Je '25

Testing

Betrachtungen über die von niederländischer seite vorgeschlagene neue methode zur prüfung von hochspannungskabeln. J. C. van Staveren. Elektrotech Zeit 45:129-32, 159-62 F 21-28 '24
Cable-pulling tensions; tests with different-size cables and conduits. W. G. Kelley. il Elec W 85:1015-18 My 16 '25
Corona cable-tests inconsistent. Soc Auto Eng J 17:150-1 Ag '25
Dielektrische verlustmessungen an einem verlegten hochspannungskabel. E. Bormann and J. Seiler. diags Elektrotech Zeit 46: 114-15 Ja 22 '25
Fire resistance of cable fireproofing. W. F. Davidson. il Elec W 85:671-2 Mr 28 '25
High-pressure testing of underground cables. C. G. Watson. diags Elec W 83:1334 Je 28 '24
High voltage cable progress. P. Dunsheath. il Electrician 94:622-3+ My 29 '25
High-voltage impregnated paper cables. W. A. Del Mar and C. F. Hanson. il Am Inst E E J 43:950-7 O '24; Discussion. 44:390-2 Ap '25
Measuring cable stresses with a dynamometer. il Elec W 83:1135-6 My 31 '24
150 000-volt cable tests. A. M. Taylor. Electrician 94:653+ Je 5 '25; Discussion. 94: 650-1, 685 Je 5-12 '25
Organizing cable tests for routine handling. Elec W 82:1226 D 15 '23
Report on an investigation of the mechanical deterioration of impregnated cable paper when subject to various temperature tests. Am Inst E E J 44:508-10 My '25
Some developments in the electrical industry during 1924. J. Liston. il diag Gen Elec R 28:2, 33-4 Ja '25
Testing high-tension impregnated-paper-insulated, lead-covered cable. E. S. Lee. il Am Inst E E J 44:156-63 [bibliog. p. 163-4] F '25; Discussion. 44:528-41 My '25; Elec W 85: 397-400 F 21 '25
Testing high voltage underground cables with D.C. W. F. Davidson. N E L A Bul 12: 395-6 Je '25
Thermionic valve testing set. J. Urmston. Elec R (Lond) 96:393-4; Discussion. 394-5 Mr 6 '25
Verwendung einer influenzmaschine für kabelprüfungen. F. Grössel. diag Elektrotech Zeit 45:1385-6 D 11 '24

ELECTRIC capacity
Electric capacity of certain solids of revolution. D. M. Wrinch. Philos Mag 6th ser 50: 60-70 Jl '25

ELECTRIC cells. See Electric batteries; Electrolytic cells; Photoelectric cells; Storage batteries

ELECTRIC charges
Electric charge carried by thorium X and thorium emanation recoil atoms in gases. G. H. Briggs. diags Philos Mag 6th ser 50:600-12 S '25
Electric charges carried by individual microscopic particles. T. Sexl. Phys R 26:92-6; Reply. J. B. Derieux. 97-8 Jl '25
Elster and Geitel's theory of the electrification of rain-drops T. E. W. Schumann. il Phys R 26:105-10 Jl '25
Matter—is there anything in it? W. R. Whitney. diags Ind & Eng Chem 17:885-90 S '25; Same cond. Gen Elec R 28:682-9 O '25
Motion of an electric charge. A. Bramley. Philos Mag 6th ser 49:912-23 My '25
Multiplet structure. A. Bramley. Philos Mag 6th ser 50:375-81 Ag '25

ELECTRIC circuit breakers
Accident hazard eliminated by change in automatic reclosing circuit breaker. R. L. Grimes. diags Coal Age 25:220-1 F 7 '24
Analysis of oil circuit breaker requirements for large steel plants. M. J. Wohlgemuth. diags Elec J 21:411-13 S '24
Automatic circuit breaker can be manually operated. il Power Pl Eng 28:1229 D 1 '24
British standard specification for flameproof air-break circuit breakers for voltages not exceeding 660 volts. 15p British engineering standards assn., London '23
British standard specification for totally enclosed air-break circuit breakers for voltages not exceeding 660 volts. 14p British engineering standards assn., London '23
Circuit breakers for domestic work. diags Electrician 94:661 Je 5 '25
Circuit breakers for feeders and a.c. motors. J. H. Wyatt. il diags Ind Eng 82:574-9+ D '24
Design of electrical plant control gear and connections for protection against shock, fire and faults. H. W. Clothier. diags Engineer 139:268 Mr 6 '25
Direct-current power-distributing system that keeps the mine equipment working. R. Howey. diags Coal Age 26:152-4 Jl 31 '24
Disjoncteur ultra-rapide des Ateliers de constructions électriques de Jeumont. diags Génie Civil 87:112-13 Ag 1 '25
Electric power club instructions for installing oil circuit breakers and power switching equipment with pointers on the care and operation thereof. il Ind Eng 83:373-8 Ag '25
Electrical circuits and switching equipment of the Hudson Avenue station of the Brooklyn Edison company. E. A. Hester. il diags Elec J 22:171-4 Ap '25

ELECTRIC circuit breakers—*Continued*
Electrical control apparatus. il diag Power Pl Eng 29:84-6 Ja 1 '25
Ellison oil circuit breakers. il Cassier's Ind Management 12:411 Ag '25
44 000 V outdoor oil breakers; Ferguson Pailin's latest design. il Electrician 91:514 N 9 '23
Fundamentals of meter service. R. C. Fryer and L. J. Gregory. il diags Elec W 83:1003-6 My 17 '24; Discussion. G. E. Palmer. 83: 1225-7 Je 14 '24
Gleichstrom-schnellausschalter. diags Elektrotech Zeit 45:853-4 Ag 7 '24
High voltage circuit breakers. A. W. Copley. Am Inst E E J 43:17-18 Ja '24; Discussion. 43:361-4 Ap '24
High-voltage circuit breakers. J. S. Jenks. Am Inst E E J 43:715-18 Ag '24; Discussion 44:179-84 F '25
How flashing of substation generator was stopped by a choke coil. diags Coal Age 25:887-8 Je 12 '24
Inspection and testing of oil for circuit breakers. G. F. MacWilliams. Ind Eng 83:153-4 Mr '25
Insulating oils for oil circuit breakers. D. Harvey. il diags Elec J 21:573-8 D '24; Same cond. Power Pl Eng 29:291-3 Mr 1 '25
Interrupteurs armés, pour hautes tensions, du type Reyrolle. Génie Civil 84:261-2 Mr 15 '24
Large capacity circuit breakers. A. Fliedner. il Electrician 94:203+ F 20 '25
Maintenance of oil circuit breaker operating mechanisms. H. L. Biggin. il diags Power 60:721-3 N 4 '24
Maintenance of oil circuit breakers—contacts and oil. H. L. Biggin. il Power 60:791-800 N 18 '24
New design circuit breaker for laboratory thermostats. G. F. Smith and C. E. Hollister. il diag Ind & Eng Chem 16:1162-3 N '24
New developments in design, application and operation of electrical operation; report of Pacific coast electrical association. J Elec 54:459-66 Je 1 '25
New German high-speed circuit breaker for Javanese state railways. il diag Elec W 84: 789 O 11 '24; Same. Elec Ry J 64:780 N 1 '24
Oil circuit breaker design. il diag Electrician 94:7-8+ Ja 2 '25
Oil circuit breaker situation from an operator's viewpoint. E. C. Stone. diags Am Inst E E J 44:756-61 Jl '25; Same cond. Elec W 86:57-60 Jl 11 '25; Discussion. Am Inst E E J 44:1254-9 N '25; Elec W 86:16-17, 225 Jl 4, Ag 1 '25
Oil circuit breakers discussed at A.I.E.E. Elec W 83:766-7 Ap 19 '24
Oil-immersed circuit-breaker design. C. W. Denny. diags Elec R (Lond) 96:846-7 My 29 '25; Same. Elec W 86:122-3 Jl 18 '25
135,000-volt outdoor oil circuit breaker; a new Ferguson Pailin product. il Elec R (Lond) 94:678-9 Ap 25 '24; Electrician 92:662-3 My 30 '24
Outdoor type oil circuit breakers. il Electrician 93:464+ O 24 '24
Overcoming troubles with oil circuit breakers. M. L. Wright. Elec W 85:101-2 Ja 10 '25
Pailin new super tension switchgear. il Electrician 95:208-9 Ag 21 '25
Purifying circuit breaker oil. L. H. Clark. il diags Elec W 86:562-5 S 19 '25
Remote-control breaker operation. O. S. Hockaday. diag Elec W 84:895 O 25 '24
Report of A.I.E.E. committee on oil-circuit breakers. Am Inst E E J 44:1237 N '25
Report of A.I.E.E. subcommittee on oil circuit breakers, switches and fuses. Am Inst E E J 43:972 O '24
Rupturing capacity of oil-immersed circuit-breakers. G. L. E. Metz. Elec R (Lond) 96:87-8 Ja 16 '25
Saving oil breakers in a high-tension double-bus layout. E. A. Crellin. il diag Elec W 85:619-20 Mr 21 '25
Selection and maintenance of oil circuit breakers; abstracts. G: A. Burnham. Ind Eng 83:465+ O '25; Power 62:663-4 O 27 '25; Power Pl Eng 29:1056-9 O 15 '25
Selection and maintenance of oil circuit breakers; abstracts. M. J. Wohlgemuth and E. K. Read. Ind Eng 83:468-9 O '25; Power 62:546 O 6 '25
Switch oil requirements and characteristics. C. J. Rodman. Elec J 22:216-19 My '25
Testing and maintenance of line breakers. G. C. Krauss. Elec Ry J 66:327 Ag 29 '25
Theoretical and practical basis for oil-switch design; abstract. G. Brühlmann. Elec W 85: 778 Ap 11 '25
Vertical phase isolation for Brooklyn station. R. C. Hardy. il Elec W 83:1287-8 Je 21 '24

Explosion pots

Explosion pots; their use in oil circuit breakers. C: C. Garrard. il diags Electrician 92: 766-7 Je 20 '24
Use of explosion pots on oil-circuit breakers. diag Elec R (Lond) 93:890-1 D 14 '23

Testing

Circuit breaker tests at Bessemer, Ala. on 300-ampere, 110,000-volt breakers. J. D. Hilliard. il diags Am Inst E E J 43:430-5 My '24; Discussion. 44:179-84 F '25
High-voltage circuit breaker tests. P. Sporn and H. P. St Clair. il diags Elec W 85:970-3 My 9 '25; Same. Electrician 95:262-4 S 4 '25
High-voltage oil circuit breaker tests, Alabama power company system. J. B. MacNeill. il diags Am Inst E E J 43:436-41 My '24; Discussion. 44:179-84 F '25
Oil circuit breaker investigation as carried on with a 26,700-kv-a. generator. H. J. Scholz. il diags Am Inst E E J 43:818-24 S '24; Same. Gen Elec R 27:822-9 D '24; Discussion. Am Inst E E J 44:179-84 F '25
Shop testing of circuit breakers F. C. Lynch. il Elec Ry J 64:846 N 15 '24
Testing circuits before working on them. T: F. McCann. diag Power 59:572 Ap 8 '24
Water rheostat used for testing circuit breakers. H. T. Hurlock. il diags Elec Ry J 65: 90 Ja 17 '25

ELECTRIC circuits
Circuit troubles and testing. T. Croft. 224p McGraw-Hill '24
Conductorless electric circuits. F. B. Vogdes. diags Gen Elec R 28:63-6 Ja '25
Neue theorie des allgemeinen stromkreises. S. Fryze. diags Elektrotech Zeit 45:677-81 Je 26 '24

See also Electric conductors; Electric current rectifiers; Electric distribution; Electric lines; Electric transmission; Electric wave filters; Oscillations (electric currents); Radio circuits; Short circuits

ELECTRIC circuits, Alternating current
Abnormal behavior of iron-cored reactors in condensive circuits. H. B. Dwight. diags Elec J 21:324-5 Jl '24
Alternating current circuit. P. Kemp. 87p Pitman '23
Critical frequencies of a series electric circuit. H. H. Race. Sibley J 38:127+ My '24
Current rating of single-conductor, lead-covered, low-tension cables on single-phase alternating-current circuits. S. W. Melsom and W. E. Beer. bibliog diags Inst E E J 63:190-203; Discussion. 203-6 F '25
Design of apparatus for the protection of alternating-current circuits. A. S. Fitzgerald. diags Inst E E J 62:561-99; Discussion. 599-627 Jl '24
Dynamic model of a valve and oscillating circuit. R. C. Clinker. diags Inst E E J 62:125-6 Ja '24; Same. Engineer 136:583 N 30 '23; Abstract. Elec R (Lond) 94:487-8 Mr 28 '24; Discussion. Inst E E J 62: 127-8 Ja '24
Graphical treatment of circuits containing iron core reactances and capacity. L. Fleischmann. diags Gen Elec R 27:260-2 Ap '24

ELECTRIC circuits, Alternating current—*Cont.*
How to calculate three-phase power distributing circuits. J. G. Berger. diag Power 59:1030-1 Je 24 '24
Inductive alternating current circuits. E. K. McDowell. diags Power Pl Eng 28:387-8 Ap 1 '24
Rises in pressure and protection of alternating-current circuits. G. W. Partridge. il diags Elec R (Lond) 94:992-4 Je 20 '24
Speedy calculator for a. c. circuits. R. L. Frisby. il Elec W 84:222 Ag 2 '24
Study of resonant circuits. L. Fleischmann. diag Elec W 83:430-1 Mr 1 '24

ELECTRIC clocks. See Clocks, Electric

ELECTRIC codes
Installationswesen. C L. Weber. Elektrotech Zeit 46:1512-16 O 1 '25
Local code committee—what it does. A. P. Denton. Elec W 84:974-5 N 1 '24
Die sicherheit des elektrischen installationsmaterials unter dem einfluss der vorschriften und prüfbestimmungen des Verbandes deutscher elektrotechniker. C. Paulus. Elektrotech Zeit 46:617-23 Ap 23 '25
Step toward uniformity in wiring. C. A. Bates. Elec W 84:711-12 S 27 '24
Value of uniform wiring regulations. Elec W 85:534 Mr 7 '25

See also Electric engineering—Laws and regulations; National electrical code

ELECTRIC coffee percolators

Merchandizing

Dollar allowance sells 119 percolators. Elec W 85:569 Mr 14 '25
Selling appliances for use every day in the year. il J Elec 54:26 Ja 1 '25

ELECTRIC conductivity
Application of an electrical method to the study of moisture absorption in cotton and its bearing on electrification in cotton. F. P. Slater. Textile Inst J 16:P53-60 Mr '25
Aqueous solutions of sodium silicates; preparation and electrical conductivity. R. W. Harman. J Phys Chem 29:1155-68 S '25
Calibration of cells for conductance measurements; absolute measurements on the specific conductance of certain potassium chloride solutions. H: C. Parker and E. W. Parker. diags Am Chem Soc J 46:312-35 F '24
Change of conductance of selenium due to electronic bombardment. R. De L. Kronig. diags Phys R 24:377-82 O '24
Conductance in liquid hydrogen sulfide solutions. G. N. Quam and J. A. Wilkinson. Am Chem Soc J 47:989-94 Ap '25
La conductibilité électrique des laitiers fondus. F. Farup. W. Fleischer and E. Holtan. diags Chimie & Ind 12:11-15 Jl '24
Conductivity of flames for rapidly alternating currents. H. A. Wilson and A. B. Bryan. Phys R 23:195-9 F '24
Conductivity of phosgene solutions of aluminium chloride at 25°, 0° and -45°. A. F. O. Germann. diag J Phys Chem 29:1148-54 S '25
Continuous conductivity method of measuring small concentration of chlorine in air. T. B. Hine. Ind & Eng Chem 16:952-3 S '24
Copper conductivity improved. il Iron Tr R 76:287 Ja 22 '25
Correlation between crack development in glass while conducting electricity and the chemical composition of the glass. E. E. Schumacher. diags Am Chem Soc J 46:1772-7 Ag '24
Electrical conductance of selenium oxychloride solutions. A. P. Julien. diags Am Chem Soc J 47:1799-1807 Jl '25
Electrical conductance of solutions of the alkali halides in acetophenone. J. L. R. Morgan and O. M. Lammert. diag Am Chem Soc J 46:1117-32 My '24
Electrical conductivities of mixtures of aniline, acetic acid, and water. J. R. Pound. Chem Soc J 125:1560-4 Ag '24
Electrical conductivity and certain other properties of metals and alloys on the basis of Bohr's theory. K. Höjendahl. diags Philos Mag 6th ser 48:349-60 Ag '24
Electrical conductivity of metallic solid solutions. E. J. Cuy. Philos Mag 6th ser 49:753-60 Ap '25
Electrical conductivity of sodium chloride in molten glass. W. J. Sutton and A. Silverman. il diags Am Cer Soc J 7:86-104 [bibliog. p. 102-4] F '24; Discussion. (Bul) 7:390-2 O '24
Electrical conductivity of some dilute liquid amalgams. E. J. Williams. diags Philos Mag 6th ser 50:589-99 S '25
Electrical properties of flames containing salt vapors for high frequency alternating currents. A. B. Bryan. diags Phys R 23:189-94 F '24
Electronic conduction in metals. A. Bramley. Philos Mag 6th ser 46:1053-73 D '23
Die elektrische leitfähigkeit von elektrohochofen-möllern. R. Durrer. il Stahl & Eisen 45:10-11 Ja 1 '25
Experimental study of the electrical conductivity of disperse systems; cream. H. Fricke and S. Morse. Phys R 25:361-7 Mr '25
Mathematical treatment of the electric conductivity and capacity of disperse systems. H. Fricke. Phys R 24:575-87 N '24
Motion of electricity in metals; abstracts. H. A. Lorentz. Engineering 119:625-6 My 22 '25; Electrician 94:566+ My 15 '25
Post-arc conductivity and metastable helium. C. Eckart. diags Phys R 26:454-64 O '25
Preparation of conductivity water. I: Bencowitz and H: T. Hotchkiss, jr. diag J Phys Chem 29:705-12 Je '25
Researches on chromammines; hydroxopentamminochromic salts and electrical conductivities of chromammines. H. J. S. King. Chem Soc J 127:2100-9 S '25
Some observations on the transition of coal to coke. E. Sinkinson. diags Ind & Eng Chem 17:27-31 Ja '25
Studies relating to metallo-organic compounds; the conductance of trimethyl stannyl chloride in mixed solvents. C: A. Kraus and W: N. Greer. Am Chem Soc J 45:2946-54 D '23
Superconducting state of copper. W. P. Davey. Elec W 85:117 Ja 10 '25
Theory of electrical conduction in metals. A. Wolf. Phys R 26:256-60 Ag '25
Thermal and electrical conductivities of some pure metals. F. H. Schofield. J Fr Inst 199:842 Je '25
Ueber die elektrische leitfähigkeit von holzkohle und koks. R. Durrer. il diags Stahl & Eisen 44:465-8 Ap 24 '24
Variation of thermionic emission with temperature and the concentration of free electrons within conductors. A. T. Waterman. Phys R 24:366-76 O '24

See also Dielectric constants; Dielectrics; Electric conductors; Electric resistance; Electrolytes—Conductivity; Hall effect; Thomson effect

ELECTRIC conductors
Computing the carrying capacity of aluminum conductors, E. P. Slack. Power 60:689 O 28 '24
Conductors with varnished-cambric insulation can carry more current. F. A. Westbrook. Ind Eng 82:348 Jl '24
Contact length of clamped tube joints. Elec W 85:982 My 9 '25
Contact resistance of large conductors. A. R. Enger. Elec J 21:316-18 Jl '24
Cost of power losses in electric conductors. C: R. Underhill. Power 61:834 My 26 '25
Current-carrying capacity of solid bare copper and aluminium conductors. S. W. Melsom and H. C. Booth. Inst E E J 62:909-15 N '24
Direct method of calculation of capacitance of conductors. H. B. Dwight. Am Inst E E J 43:1034-9 N '24; Discussion. 44:299-300 Mr '25
Eddy current losses in armature conductors. R. E. Gilman. Am Inst E E J 43:194-6 Mr '24; Discussion. 43:1170-3 D '24

ELECTRIC conductors—*Continued*
Die eigenschaften von krarupleitungen. U. Meyer. diags Elektrotech Zeit 46:1033-5 Jl 9 '25
Hall effect in a conductor due to its own magnetic field. W. van B. Roberts. diags Phys R 24:532-43 N '24
Holz und andere halbleiter als praktisch brauchbare stromleiter. W. Blut. diag Elektrotech Zeit 46:842-3 Je 4 '25
Inductance coefficients of cylindrical conductors. A. Russell. Inst E E J 62:9-12 D '23
Investigation of the friction between sliding surfaces, with special reference to the effects produced by electric currents passing across such surfaces. H. M. Barlow. diags Inst E E J 62:133-58; Bibliography. 158-9 F '24; Discussion. 62:477-8 My '24
Isolierstoffe als praktisch brauchbare elektrizitätsleiter. il Elektrotech Zeit 46:1635-8 O 22 '25
Method of arranging conductors to indicate voltage. G. F. MacWilliams. il Ind Eng 82:594-5 D '24
Querschnittsverstärkung durch zusatzblindleistung. H. Vogt. Elektrotech Zeit 45: 581-3 Je 5 '24
Single straight conductor as a new fundamental. C. Hering. J Fr Inst 199:235-46 F '25; Abstract. Am Inst E E J 44:346 Ap '25
Skin effect in slot wound conductors. A. Press. Electrician 92:4-5 Ja 4 '24; Discussion. 92:73-4, 261, 356, 487 Ja 18, F 29, Mr 21, Ap 18 '24
Straight-line graph for computing tensions in line conductors. E. S. Thayer. diags Elec W 83:135-6 Ja 19 '24
Über das eigenfeld von stromverdrängungsfreien leitern für wechselstrom. L. Fleischmann. Elektrotech Zeit 46:732-4 My 14 '25
Vibration of conductors and overhead ground wires. J. M. Gaylord. il Am Inst E E J 43:1026-8 N '24
Wechselströme in massiven eisenleitern. K. Zickler. Elektrotech Zeit 45:650-1 Je 19 '24

See also Busbars; Electric cables; Electric distribution; Electric transmission; Electric wire; Insulation (electric); Kelvin's law

Joints

Efficiency of end connections, and the short-period ratings of large-current shunts. S. W. Melsom and H. C. Booth. diag Inst E E J 63:299-303 Mr '25
Resistance of electrical connections. G: E. Luke. diags Elec J 21:66-9 F '24

ELECTRIC conduits
Cable-pulling tensions; tests with different-size cables and conduits. W. G. Kelley. il Elec W 85:1015-18 My 16 '25
Concrete pipe electrical conduits. il Concrete 25:32-4 Jl '24
Conduit sizes for wires and cables for runs less than 100 ft. Elec W 85:1133 My 30 '25
Data on ground conductors in conduit. S. W. Borden. Elec W 84:1261-2 D 13 '24
Dayton underground conduit system. L. A. Bryant. diag Elec W 84:220 Ag 2 '24
Large uses of steel in small ways. il Iron Tr R 76:1259 My 14 '25
Maintaining conduit conductor rails. il Elec Ry J 63:150-1 Ja 26 '24
Network boxes; Henley's new designs. il Electrician 93:729 D 26 '24; Elec R (Lond) 95:956-7 D 19 '24
Study of underground systems; report of committee of Pacific coast electrical association. diags J Elec 52:427-9 Je 1 '24
Underfloor duct system. il diags Elec W 82: 595-8 S 22 '23; Same. Eng & Contr (Bldgs) 61:189-94 Ja 23 '24
Underground service box for distribution. il diags Elec W 85:463-4 F 28 '25
Wiring in concrete buildings without rigid conduits. il Concrete 26:193-4 Je '25

See also Electric cables; Electric conductors; Electric distribution; Electric wiring

Temperature

Duct line temperature measurement; report of Pacific coast electrical association. J Elec 54:449-50 Je 1 '25

ELECTRIC contactors
Apparatus for making momentary electrical contacts at regular intervals. H. W. Johnson. diag Ind & Eng Chem 16:56-7 Ja '24

ELECTRIC contacts
Investigation of the friction between sliding surfaces, with special reference to the effects produced by electric currents passing across such surfaces. H. M. Barlow. diags Inst E E J 62:133-58; Bibliography. 158-9 F '24; Discussion. 62:477-8 My '24
Resistance of electrical connections. G: E. Luke. diags Elec J 21:66-9 F '24

ELECTRIC contractor-dealers
Can the contractor-dealer be the retail outlet for the industry? E. A. Kincaid. J Elec 52:197-201 Mr 15 '24
The "if" in "electrify"; a frank appraisal of the contractor-dealer. O. F. Rost. Elec W 82:1244-6 D 15 '23
Relation of credit-manager and contractor-dealer. J: Bray. J Elec 54:179 Mr 1 '25
Responsibility of the jobber for the contractor-dealer. E. A. Kincaid. J Elec 52:240-3 Ap 1 '24
Trade policy of the electragists. O. F. Rost. il Elec W 86:820-1 O 17 '25

See also Electric shops (retail trade); McGraw award

ELECTRIC contractors
Are contractors making a profit in wiring jobs? J Elec 51:422 D 1 '23
Contracting for pleasure and profit; abstracts with discussion. Electrician 93:501-2 O 31 '24; Elec R (Lond) 95:651-2 O 31 '24
Illumination in industry. J. G. Crosby. Illum Eng Soc 19:99-101 Ja '24
Installation policy; its importance to the electricity supply industry. L. L. Robinson. Electrician 94:714-15; Discussion. 715-16 Je 19 '25
Neighborhood meetings an aid to contractors. J. R. Wilson. J Elec 55:139 Ag 15 '25
New Los Angeles electrical ordinance will regulate contractors. J Elec 53:333 N 1 '24
Registration of contractors. Electrician 92: 207-8 F 15 '24; Discussion. 92:263, 293-4 F 29-Mr 7 '24
Registration of the electrical contractor. A. Lindsay. Elec R (Lond) 94:635 Ap 18 '24

See also National register of electrical installation contractors

Accounting

How much shall we charge? G: D. Barr. System 48:435+ O '25

Estimating

Electrical construction. E. E. Browne. J Elec 52:324-5, 362-3, 494-5; 53:20-1, 58-9, 94-5, 134-5, 212-13, 250-1 My 1-15, Je 15-Ag 15, S 15-O 1 '24

ELECTRIC control
Automatic control for boiler feed pumps. L. W. Smith and W. C. Plumer. il diag Power Pl Eng 29:598-9 Je 1 '25
Automatic control for forced-draft fans at Wabash River station. W. C. Plumer. il Power 61:782-3 My 19 '25
Automatic control for pump circuit. A. P. Sessions. diags Elec W 85:464-5 F 28 '25
Automatic control for substation apparatus. W. H. Millan. Am Inst E E J 44:588-91 Je '25; Same. Power Pl Eng 29:543-6 My 15 '25; Discussion. Am Inst E E J 44:879-80 Ag '25
Automatic electric combustion control equipment. il diag Power 59:579-80 Ap 8 '24
Automatic heat balance control. W. A. Kates. diags Elec W 85:1025-7 My 16 '25
Automatic stations in New England. T. A. Barry. il Gen Elec R 28:392-7 Je '25
Automatic temperature regulation; the Cambridge system of automatic control. il diags Elec R (Lond) 96:878-9 My 29 '25

ELECTRIC control—*Continued*
Automatically controlled asbestos mill. A. A. St Aubin. il diags Elec W 85:655-7 Mr 28 '25
Brakes used to retard or hold rotating parts. A. J. Whitcomb. il Ind Eng 82:317-20+ Jl '24
Causes and prevention of control failure. F: L. Roth. Elec W 83:141-2 Ja 19 '24
Complete automatic control of pumps in waterworks plant. H. S. Lane. il diag Elec W 85:978-9 My 9 '25
Control of mine equipment. W. C. Adams. Min Cong J 11:215-16+ My '25
Control of mining equipment. il Min Cong J 11:324-8 Jl '25
Doing things better electrically. J Elec 53: 444-5 D 15 '24
Electrical system of combustion control for boiler plants. diags Power 59:46-8 Ja 8 '24
Opening windows by pressing buttons. B. S. Havens. il Factory 35:106+ Jl '25
Remote operation of valves and gates. R. H. Rogers. il diag Gen Elec R 27:729-35 N '24
Rim bascule bridge at Inchinnan; electrical operation. il Electrician 92:542 My 2 '24
Scherbius controlled induction synchronous frequency converter. R. E. Greene. il diags Power 61:258-60 F 17 '25
Scope and field of control engineering. C. C. MacMillan. Sibley J 39:238-9 Ja '25
Service and construction of electrically operated brakes used to retard or hold rotating parts. A. J. Whitcomb. il Ind Eng 82:271-4+ Je '24
Simple method of interlocking the control of coal-handling equipment. R. F. Emerson. Ind Eng 83:251-2 My '25
Supervisory controlled automatic substation for Wellington, N Z. il Engineering 120:494-5 O 16 '25; Engineer 140:412-13 O 16 '25; Electrician 95:441 O 16 '25; Elec R (Lond) 97:621-3. 646-7 O 16-23 '25
Supervisory electric control. il Electrician 93: 498 O 31 '24
Supervisory systems. C. E. Stewart. il Gen Elec R 28:448-53 Je '25
Supervisory systems for control and indication of remote power equipment. C. E. Stewart and J. C. Field. il diag plan Gen Elec R 27:121-9 F '24
Textile machinery mechanisms; the place of electric control in their operation. F. Nasmith. il Electrician 94:230-1 F 27 '25
Variable voltage control systems as applied to electric elevators. E. M. Bouton. il diags Am Inst E E J 43:52-63 Ja '24; Abstract. Power Pl Eng 28:287-90 Mr 1 '24; Discussion. Am Inst E E J 43:1070-80 N '24

See also Electric controllers; Electric furnaces—Control; Electric motors—Control; Electric motors, Alternating current—Control; Electric motors, Induction—Control; Electric motors, Synchronous—Control; Electric railroads—Control; Electric switches; Hydroelectric plants—Control; Radio control; Valves, Hydraulic—Electric control; Voltage regulation

ELECTRIC controllers
Control of auxiliary-drive motors. A. L. Harvey. il Power 59:761-2 My 13 '24
Controllers for steel mills. il Electrician 91: 612, 700 N 30, D 21 '23
Dead front fire pump controller. il Arch & Bldg 57:74 Ag '25
Design of controllers for electrical winders and haulages; abstracts. A. West. il Elec R (Lond) 96:796-7 My 15 '25; Electrician 95:91 Jl 24 '25
Electric control equipment. A. J. Whitcomb. il Ind Eng 82:73-7 F '24
How to make controller diagrams. H. D. James. diags Elec J 21:523-6 N '24
Large user's discount a problem in electric controller industry. Elec W 85:739-41 Ap 4 '25
Latest improvements in locomotive control. H. H. Johnson. il diags Coal Age 26:367-70 S 11 '24
Limitations of manual controllers for electric motors. H. D. James. il Power 59: 671-2 Ap 29 '24
Locating faults in electric elevators—direct-current controllers. C: A. Armstrong. il diags Power 62:674-7 N 3 '25
Management of dynamo-electric machinery and industrial controllers. F. B. Crocker, C. C. Adams and G: J. Kirkgasser. 272p American technical society, Chicago '24
Motor control equipment. il Ind Eng 83:76-81 F '25
Operation and care of cam-type manual controllers for electric motors. H. D. James. il Power 59:480-1 Mr 25 '24; Same. Coal Age 25:580-1 Ap 17 '24
Operation and care of drum-type manual controllers for motors. H. D. James. il diags Power 59:368-9 Mr 4 '24
Operation of high-speed traction elevator control. W. Hilleary. il diags Power 61:727-31 My 12 '25
Three-speed traction elevator direct-current controller. C: A. Armstrong. il diags Power 62:438-41 S 22 '25

See also Electric motors—Control; Electric motors, Direct current—Control; Electric motors, Induction—Control; Electric resistors; Rheostats; Voltage regulators

Repair
Drum-controller trouble can do big damage. G. H. Emerson. Coal Age 28:25 Jl 2 '25
Maintenance of controller fingers. Elec Ry J 64:361-2 S 6 '24
Modernizing platform controllers. il Elec Ry J 65:609-12 Ap 18 '25

Testing
Fixture for checking controller drums. il Elec Ry J 65:624-5 Ap 18 '25

ELECTRIC converters. See Converters, Electric; Converters, Synchronous; Electric current rectifiers; Electric motor generators; Electric transformers; Frequency changers

ELECTRIC cooking
Advantages of electric cooking. Elec R (Lond) 96:929 Je 12 '25
Cafeteria has 125-kw. cooking load. il Elec W 86:177-9 Jl 25 '25
Chicago's largest commercial cooking load. Elec W 86:858 O 24 '25
Commercial electric cooking. il Elec W 85: 613-15 Mr 21 '25
Commercial electric cooking gains; arguments of Cleveland electric illuminating company. Elec W 85:1076-80 My 23 '25
Cost of serving the electric range load. Elec W 85:871-3 Ap 25 '25
Development of electric cooking apparatus. F. Smith. Electrician 92:463 Ap 11 '24; Discussion. 92:492 Ap 18 '24
Development of the cooking load. Elec R (Lond) 94:353; Discussion. 353-4 F 29 '24
Dough-kilowatt hours—dollars. E. L. Gehman. il J Elec 55:171-3 S 1 '25
Electric baking ovens at the Bakers' exhibition. il Elec R (Lond) 97:644-5 O 23 '25
Electric cooker design. A. Plant. Electrician 94:154 F 6 '25
Electric cooker—some experience, figures and facts. E. G. Ross. Elec R (Lond) 95:5-7 Jl 4 '24
Electric cooking and heating; report of N.E. L.A. committee. Elec W 85:1323-4 Je 20 '25
Electric cooking for marine use. il Marine Eng 29:309-10 My '24
Electric cooking for roadside cafes. il Elec W 86:573 S 19 '25
Electric cooking in small restaurants. il Elec W 84:1266-7 D 13 '24
Electric cooking; its effect on power station loads. C: Hässler. Electrician 91:548 N 16 '23
Electric cooking problems; abstracts. R. Hardie. Electrician 94:404-5 Ap 3 '25; Elec R (Lond) 96:552 Ap 3 '25
Electric cooking school at Boston arouses interest. Elec W 83:838-9 Ap 26 '24
Electric domestic and commercial cooking; report of Pacific coast electrical association. J Elec 54:398-403 Je 1 '25

ELECTRIC cooking—*Continued*
Electric oven bakes 3,600 loaves of bread hourly. il Elec W 86:757 O 10 '25
Electrically equipped kitchens on trains. il Engineering 118:480-1 O 3 '24
Electrically heated cooking and baking equipment. P. H. Booth. J Elec 52:384 Je 1 '24
Electrified hotel kitchen. R. I. Smith. Elec W 86:277 Ag 8 '25
Hospital comfort; Hotpoint-Falco cooking equipment. il Electrician 95:358+ S 25 '25
Late developments in the newspaper cooking schools. R. W. Turnbull. J Elec 54:166-9 Mr 1 '25
London shop's cooking equipment. il Electrician 95:359-60 S 25 '25
Lost opportunities of the electric cookery load; abstracts. S. C. Hurry. Electrician 93:645-6 D 5 '24; Elec R (Lond) 95:850 D 5 '24
Modern bakery uses electricity to operate all equipment. il J Elec 55:96-7 Ag 1 '25
Nation's food exhibition at Olympia. il Elec R (Lond) 96:714 My 1 '25
Placing electric cookers. R. A. Lower. Electrician 92:234+ F 22 '24
Range customers provide 21.8 per cent of company's revenue. Elec W 85:674-5 Mr 28 '25
Salt Lake City has large bake-oven load. il Elec W 84:23 Jl 5 '24
Die wirtschaftlichkeit elektrischer kleinkochgeräte und eines neuen elektro-tauchkochers. R. Naujoks. il Elektrotech Zeit 45:589-93 Je 5 '24

See also Electric stoves; Fireless cookers, Electric

Cost

Cost of using electric ranges between 50 cents and $1.33 a person. Elec W 84:275-7 Ag 9 '24; Discussion. K. C. Ogden. 84:523 S 13 '24
Electricity and gas cooking. E. G. Ross. Elec R (Lond) 96:670-2 Ap 24 '25
Gas and electricity. W. D. Wilcox. Gas Age 56:513-14+ O 10 '25
Gas v. electricity for cooking. Gas J (Lond) sup 4:175 Ag 26 '25

ELECTRIC cranes. See Cranes, derricks, etc.—Electric equipment

ELECTRIC current converters. See Converters, Electric; Converters, Synchronous

ELECTRIC current inverters
The inverter. D. C. Prince. il diags Gen Elec R 28:676-81 O '25

ELECTRIC current limiter
Tariff problem; the kilowatt year system in Norway—the use of a current limiter. M. Jorgensen. il diag Electrician 94:658-9 Je 5 '25

ELECTRIC current rectifiers
Alternating current rectification. L. B: W: Jolley. 352p Wiley '24
Die änderung des leistungsfaktors auf dem wege vom generator zum gleichrichter; abstract. H: Kaden. Elektrotech Zeit 45:248 Mr 20 '24
Automatic and semi-automatic mercury vapour rectifier substations. G. Rogers. diags map plans Inst E E J 63:157-72 F '25; Same cond. Engineering 118:782-4, 845-7 D 5, 19 '24; Abstracts. Electrician 93:616 N 28 '24; Elec R (Lond) 95:835-6 N 28 '24; Engineer 138:615-16 N 28 '24; Discussion. Inst E E J 63:173-89, 473-9 F, My '25; Electrician 93:620 N 28 '24; Elec R (Lond) 95:836-7 N 28 '24
Battery charging with rectigon rectifiers. E. W. Breisch. il diags Elec J 21:155-9 Ap '24
Der blindleistungsverbrauch von gleichrichteranlagen und seine messung. M. Schenkel. diags Elektrotech Zeit 46:1369-71, 1399-1405 S 3-10 '25
Le développement industriel des redresseurs de courant à vapeur de mercure. F. Collin. il diags Génie Civil 85:165-71 Ag 23 '24
Der einfluss der gleichstrom-drosselspule auf den leistungsfaktor des wechselstromes beim quecksilberdampf-gleichrichter. W. Taeger. Elektrotech Zeit 45:774-5 Jl 17 '24
Einwirkungen von gleichrichteranlagen auf fernsprechleitungen. A. Zastrow and E. R. Benda. diags Elektrotech Zeit 46:1478-81 S 24 '25
Electrolytic rectifier, for electrical engineers, physicists and wireless amateurs. N. A. De Bruyne. 75p Pitman '24
Eine grossgleichrichteranlage im hüttenwerksbetrieb. W. Zimmermann. il diags Elektrotech Zeit 46:1253-60 Ag 20 '25
High-power mercury-arc rectifiers. F. C. Bailey. il diags Power 59:130-2 Ja 22 '24
High power mercury arc rectifiers; some recent experiences of their use for railway work. Electrician 94:124 Ja 30 '25
High-power mercury arc rectifiers; the automatic control of sub-station plant. R. L. Morrison. il chart diag Elec R (Lond) 97:484-7 S 25 '25
Der leistungsfaktor der quecksilberdampfgleichrichter. G. W. Müller. diags Elektrotech Zeit 45:624-6 Je 12 '24
Mercury-arc rectifier operates 12½ years. J. Van Veen. Elec W 85:1032 My 16 '25
Mercury arc rectifier station in Zurich, Switzerland. il Aera 13:1169 F '25
Mercury-arc rectifier under short circuit. Elec W 84:1087-8, 1260; 85:301-2 N 22, D 13 '24, F 7 '25
Mercury-arc rectifiers. H. Odermatt. Elec W 83:393 F 23 '24
Mercury-arc rectifiers and mercury-vapour lamps. J. A. Fleming. 100p Pitman '25
Mercury arc rectifiers for railway work. diag Elec Ry J 66:543-4 O 3 '25
Mercury rectifier operates 45,766 hours. Elec W 84:794 O 11 '24
Die messung der blindleistung beim quecksilberdampfgleichrichter. L. P. Krijger. Elektrotech Zeit 46:48-50 Ja 8 '25
New a. c. glow discharge rectifier. H. Kneser. Electrician 93:177 Ag 15 '24
New York Edison company installs mercury-arc converter. il Elec W 85:256 Ja 31 '25
Notes on electrolytic rectifiers. M. A. Codd. diags Elec R (Lond) 93:683-4 N 9 '23
Obtaining steady high-voltage direct current from a thermionic rectifier without a filter. F. W. Maxstadt. il diags Am Inst E E J 43:1055-7 N '24; Same cond. Elec R (Lond) 95:957-8 D 19 '24
Primäre stromkurvenform und leistungsfaktoren bei gleichrichtern. K. Faye-Hansen. diags Elektrotech Zeit 46:1104-6 Jl 23 '25
Quecksilberdampf-glasgleichrichter für elektrische bahnen und robuste gleichstrombetriebe. G. W. Müller. il Zeit Ver Deutsch Ing 68:909-10 Ag 30 '24
Quecksilberdampf-grossgleichrichter in unterwerken der französischen hauptbahnen. B. Schaefer. il diags Elektrotech Zeit 46:833-6 Je 4 '25
Rectification of alternating currents by crystals. A. C. James. Philos Mag 6th ser 49:681-95 Ap '25
Rectifier wave forms. D. C. Prince. diags Gen Elec R 27:608-15 S '24; Abstract Elektrotech Zeit 46:1271-2 Ag 20 '25
Recitifiers. diags Engineer 140:84-5, 107-8, 138-40, 161-2, 185-7, 220-1, 233-5, 264-6, 287-9, 318-20, 346-7, 368-70 Jl 24-O 9 '25
Spannungsabfall und minimalstromstärke des argonal-gleichrichters. Hellmuth. il Elektrotech Zeit 45:579-81 Je 5 '24
Testing and operation of rectigon rectifiers. S. B. Kraut. il diags Elec J 21:363-8 Ag '24
Theory and performance of rectifiers. H. D. Holler and J. P. Schrodt. il diags U S Bur Stand Tech Pa 265:465-527 '24; Abstracts. Automotive Ind 52:158 Ja 22 '25; J Fr Inst 199:408-10 Mr '25
Thermionic valve rectifiers. C. T. Melling. diags Engineer 137:638 Je 6 '24
Zur berechnung von transformatoren für quecksilberdampf- und argonal-gleichrichter. Hellmuth. diags Elektrotech Zeit 46:458-60 Mr 26 '25

See also Electric current inverters

ELECTRIC current rectifiers—*Continued*

Cost

Cost of installing rectifiers and reactors. Elec W 83:678 Ap 5 '24

ELECTRIC currents

Currents limited by space charge between coaxial cylinders. I. Langmuir and K. B. Blodgett. Phys R 22:347-56 O '23

D.c. versus a.c.; a comparison of the two systems for transmission purposes. A. Scherbius. Electrician 92:70 Ja 18 '24

Direct or alternating current for overhead traveling cranes. W: L. Laing. Am Mach 60:133-4 Ja 24 '24

Elektrische schaltvorgänge und verwandte störungserscheinungen in starkstromanlagen. R. Rüdenberg. 504p J. Springer, Berlin '23

Energy of a straight current. L. Page. diag Am J Sci 5th ser 10:398-407 N '25

Handbook of direct currents. K. C. Graham. 164p Simmons-Boardman pub. co., New York '24

Obtaining steady high-voltage direct current from a thermionic rectifier without a filter. F. W. Maxstadt. il diags Am Inst E E J 43:1055-7 N '24; Same cond. Elec R (Lond) 95:957-8 D 19 '24

Pulsations in power due to synchronous motor driven compressors. Q. Graham. il Elec J 21:70-1 F '24; Same. Power Pl Eng 28:342-4 Mr 15 '24

When d.c. produces a.c. diag Power Pl Eng 29:763, 1021 Jl 15, O 1 '25

See also Circulatory currents; Eddy currents; Electric circuits; Electric conductivity; Electric conductors; Electric distribution; Electric measurement; Electric meters; Electric switches; Electric testing; Electric transformers; Electric transient phenomena; Electric waves; Electromotive force; Short circuits; Stray currents

ELECTRIC currents, Alternating

Alternating current, electrical engineering. W: T. Maccall. 493p W. B. Clive, Univ. tutorial press, London '23

Alternating current problems. R: E. Brown. 84p Wiley '25

Alternating currents and transients, treated by the rotating vector method. F. M. Colebrook. 195p McGraw-Hill '25

Alternating currents, their theory and transmission. E. T. Larner. 198p Van Nostrand '23

Alternating currents, their theory, generation, and transformation. A. Hay. 5th ed., rev. & enl. 446p Van Nostrand '23

Brief history of frequency selection and standardization. B. G. Lamme. Elec W 84: 601-3 S 20 '24

Current-transformer methods of producing small, known voltages and currents at radio frequencies for calibrating purposes. D. W. Dye. diags Inst E E J 63:597-603; Discussion. 603-8 Je '25

Die definition der schein- und blindleistung sowie des leistungsfaktors bei mehrphasenstrom. H. Schering. Elektrotech Zeit 45: 710-12 Jl 3 '24

Durchbruchfeldstärke, anfangs- und funkenspannung bei wechselstrom von 500 per/s. F. Müller. Elektrotech Zeit 45:830-1 Jl 31 '24

Effect of small alternating currents on some polarized electrodes. S. Glasstone. diag Am Chem Soc J 47:940-5 Ap '25

Electrical circuits and machinery. v 2, Alternating currents. J: H. Morecroft and F: W. Hehre. 428p Wiley '24

Electrical frequency analyzer. R. L. Wegel and C. R. Moore. diags Am Inst E E J 43:798-802 S '24; Abstract. Electrician 93:408+ O 10 '24

Die erde als wechselstromleiter. O: Mayr. diags Elektrotech Zeit 46:1352-5, 1436-40 S 3, 17 '25

Introduction to the study of alternating currents. A. E. Clayton. 296p Longmans '23

Kurven zur analyse von wechselströmen mit hilfe der braunschen röhre. diags Elektrotech Zeit 45:1450 D 25 '24

Ein neuer leistungsfaktormesser für drehstrom mit ungleicher belastung. H: Kafka. Elektrotech Zeit 45:1429-32 D 25 '24

Note on operational calculus. V. Bush. 107p Massachusetts inst. of technology, Boston '24

Operation of A.C. generating equipment. V. E. Johnson. Power Pl Eng 28:142-4, 183-6 Ja 15-F 1 '24

Regulation of the earth potentials of alternating-current systems. T. R. Warren. diags Inst E E J 63:1018-22 O '25

Relation between current, voltage, and the length of carbon arcs. A. E. R. Westman and R. B. Walker. il diags Am Electrochem Soc Trans v 46 (preprint 24):345-59 O '24

Some graphical methods; geometrical solutions of two alternating-current problems. W: Cramp. diags Elec R (Lond) 97:249-51 Ag 14 '25

Study of underground distribution systems for the city of New Orleans. W. R. Bullard. diag map Am Inst E E J 43:1058-62 N '24; Discussion. 44:288-93 Mr '25

Theory of the generation of alternating currents by means of triodes. N. Shuttleworth. diags Inst E E J 61:1121-33 O '23

Über das eigenfeld von stromverdrängungsfreien leitern für wechselstrom. L. Fleischmann. Elektrotech Zeit 46:732-4 My 14 '25

Use of single-core armoured cables for alternating currents. G. M. Harvey and A. H. W. Busby. diags Inst E E J 63:368-78 Ap '25

Use of single-core lead-covered and armoured cables for alternating currents. W. Cramp. Inst E E J 63:379-83 Ap '25; Discussion. 63: 690-1 Jl '25

Eine verallgemeinerte vektorrechnung für wechselstromkreise mit anwendungen auf einige praktische aufgaben; abstract. R. Lundholm. Elektrotech Zeit 46:1039-41 Jl 9 '25

Wechselströme in massiven eisenleitern. K. Zickler. Elektrotech Zeit 45:650-1 Je 19 '24

See also Electric circuits, Alternating current; Electric generators, Alternating current; Electric motors, Alternating current

ELECTRIC cutouts. See Electric circuit breakers; Electric fuses; Electric switches

ELECTRIC cutting

Arc welding and cutting economies. A. M. Candy. il Ind Eng 82:27-9+ Ja '24

Arc welding and cutting in railroad shops. A. M. Candy. il Elec J 21:273-5 Je '24

Cutting cast-iron and copper alloys by the electric arc process. A. G. Bissell. il Mach 31:445-6 F '25

Rivet cutting with an electric arc. il diag Ry R 74:290-2 F 16 '24

Scrapping steel cars by electric arc process. A. M. Candy. il Ry Mech Eng 98:217-19 Ap '24

See also Metal cutting, Subaqueous

ELECTRIC discharges

Absence of helium from the gases left after the passage of electrical discharges: between fine wires in a vacuum; through hydrogen; through mercury vapor. S. K. Allison and W: D. Harkins. diags Am Chem Soc J 46:814-24 Ap '24

Absorption and emission spectra of the Geissler discharge in mercury vapor and in mixtures of mercury and hydrogen. L: A. Turner and K. T. Compton. Phys R 25:606-12 My '25

Behaviour of hydrogen in the discharge due to alternating electric fields of high frequency. R. W. Lunt. Philos Mag 6th ser 49:1238-49 Je '25

Critical resistance for flashing of air discharge-tubes. J. Taylor and W: Clarkson. Philos Mag 6th ser 49:336-53 F '25

Disappearance of gas in the electric discharge. Philos Mag 6th ser 48:553-80 S '24

Effect of surface charges in vacuum discharge tubes. A. R. Olson and T. F. Young. Phys R 25:58-65 Ja '25

Electric discharge through gases at very low pressures. J. J. Thomson. diags Philos Mag 6th ser 48:1-33 Jl '24

ELECTRIC discharges—*Continued*
Electrical explosion of tungsten wires. H: V. A. Briscoe, P. L. Robinson and G: E: Stephenson. diags Chem Soc J 127:240-7 Ja '25
Electrification of gases by surface combustion. J. Dickinson. bibliog diags Philos Mag 6th ser 50:225-41 Jl '25
Influence of the shape of the cathode on the normal current density of the glow discharge. A. Guenther-Schulze. il diag Am Electrochem Soc Trans v 44 (preprint 29): 361-70 S '23
New type of electric discharge. I. Langmuir. Elec R (Lond) 95:771-2 N 21 '24
On discharges from points in gases, with special regard to so-called dark discharges. J: Zeleny. il diags Phys R 24:255-71 S '24
On the variation of the extinction voltages of certain types of low tension discharge tubes under different conditions. J. Taylor and W: Stephenson. Philos Mag 6th ser 49: 1081-1103 Je '25
Passage of electricity through vacuum tubes. R. Whiddington. il Engineering 120:20-1 Jl 3 '25
Photographic study of high voltage discharges. R. H: George, K: B. McEachron and K. A. Oplinger. Purdue U Eng Exp Sta Bul 19:1-118 [bibliog. p. 113-14] '24
Post-arc conductivity and metastable helium. C. Eckart. diags Phys R 26:454-64 O '25
Pressure effect and other phenomena in gaseous discharges. I. Langmuir. bibliog J Fr Inst 196:751-62 D '23
Radiation given out by gases through which electric discharges are passing. J. J. Thomson. diags Philos Mag 6th ser 49:761-86 My '25
Removal of gas films. W. D. Bancroft. J Phys Chem 29:20-33 Ja '25
Striated discharge in mercury vapour. W. H. McCurdy. diags Philos Mag 6th ser 48: 898-917 N '24
Studies of electric discharges in gases at low pressures. I. Langmuir and H. Mott-Smith, jr. Gen Elec R 27:449-55, 538-48, 616-23, 762-71, 810-20 Jl-S, N-D '24
Study of the luminous discharge in chlorine; the electron affinity of halogen molecules. W. A. Noyes, jr. diag Am Chem Soc J 46: 1598-1606 Jl '24
Theory and experiments relating to the striated glow discharge in mercury vapor. K. T. Compton, L: A. Turner and W. H. McCurdy. diags Phys R 24:597-615 D '24
Wave form of the current when an electric discharge is passed through mercury vapour. F. H. Newman. Philos Mag 6th ser 47:939-40, pl 7 My '24

See also Corona (electricity); Electric sparks; Ionization, Gaseous; Oscillations (electric currents); X rays

ELECTRIC distribution
Alternating-current low-voltage networks; general survey of problem made by N.E.L.A. committee. diag Elec W 85:1316-18 Je 20 '25; Discussion. R. B. Hunter. 86: 565-6 S 19 '25
Analytical solution of networks. R. D. Evans. Elec J 21:149-54, 207-13 Ap-My '24
Asymmetric illumination distribution for ornamental street lighting. L. A. S. Wood. il diags Elec W 83:999-1003 My 17 '24
Automatic network relay. J: S. Parsons. il diags Elec J 22:339-44 Jl '25
Bestimmung und regelung der spannung in drehstromnetzen. Burger. diags Elektrotech Zeit 46:1289-96 Ag 27 '25
Changes in a distribution system which have lowered maintenance costs, cut fire and accident hazards and increased reliability of service. B. R. Fritz. il plan Ind Eng 82:378-80+ Ag '24
Changing from two-wire to three-wire system. A. A. Fredericks. diag Power 60:465-6 S 16 '24
Changing the periodicity. A. C. Bostel. Elec R (Lond) 94:252 F 15 '24
Class of equivalent electrical networks. Philos Mag 6th ser 49:728-39 Ap '25
Common return for street lighting. H. Richter. plan Elec W 84:831-3 O 18 '24
Conducting a distribution survey. E. G. Nichols and J. R. Eyre. Elec W 84:781-4, 839-40 O 11-18 '24
Continuity and regularity of operation of large electric systems. G. Semenza. Engineering 118:112 Jl 18 '24
Control and switching of high-pressure distribution systems. P. V. Hunter. diags Elec R (Lond) 94:72-4, 113-14 Ja 11-18 '24
Conversion of d.c. three-wire networks to a.c. D. Ross. Elec R (Lond) 96:791-2 My 15 '25
Designing a distribution system for congested areas. C. G. Watson. diags Elec W 84:222-4 Ag 2 '24
Determining the positions of new feeding points. D. Ross. diag Elec R (Lond) 95: 969 D 26 '24
Distributing outgoing feeders from wire tower. H. S. Rich. il diags Ind Eng 82:347 Jl '24
Distribution for congested areas of Bronx. diags Elec W 85:1031-2 My 16 '25
Distribution line practise of the San Joaquin light and power corporation. L. J. Moore and H. H. Minor. il diags Am Inst E E J 44:1201-8 N '25
Distribution practice in Australia. F. W. H. Wheadon. il Elec W 86:221-2 Ag 1 '25
Distribution practises in southern California. R. E. Cunningham. il diag Am Inst E E J 44:1196-1200 N '25
Distribution rurale d'énergie électrique au moyen de transformateurs à trois enroulements. Génie Civil 84:328-9 Ap 5 '24
Distribution sketches. Elec W 84:472 S 6 '24
Distribution to supply increasing load densities in residential areas. M. T. Crawford. il diag Am Inst E E J 44:1063-7 O '25
Duplicate service feeders in congested districts. C. G. Watson. diags Elec W 83:435-6 Mr 1 '24
Economics of generation and distribution. G. Semenza. Elec R (Lond) 95:678-9 O 31 '24
Ein einfaches verfahren zur auffindung des spannungsnullpunktes bei drehstrom-sternschaltung. W. Lehmann. Elektrotech Zeit 45:1086-7 O 9 '24; Discussion. 46:636-9 Ap 23 '25
Electric distribution network of the Pacific gas and electric company. S. J. Lisberger. il diag maps Elec J 22:268-73 Je '25
Electrical distribution for a city of unusual growth; Los Angeles. C. A. Heinze. il diags plans Elec J 22:261-8 Je '25
Electricity in a modern lumber project. F. R. Innes. il diags Elec W 85:198-202, 243-6 Ja 24-31 '25
Electricity supply problems. J. S. Thomson. Electrician 95:500 O 30 '25
Engineering and economic features of distribution systems supplying increasing load densities. L. M. Applegate and W. Brenton. bibliog diags Am Inst E E J 44:937-42 S '25
Evolution of alternating-current secondary networks. H. Richter. diags Elec J 22:320-36 Jl '25
4000 volt distribution system of the Duquesne light company. S: Rosenbach. il diag maps Elec J 22:289-94 Je '25
Fundamental plan in the electrical design. H. R. Woodrow. diags Elec J 22:153-5 Ap '25
General light and power supply of Chicago. G. M. Armbrust and J. B. Jackson. Am Inst E E J 43:608-9 Jl '24; Discussion. 44: 288-93 Mr '25
High-voltage distributing system. G. H. Smith. Am Inst E E J 44:1104-5 O '25
High-voltage trunk lines tapped for local service. R. Deuser. diag Elec W 82:1118 D 1 '23
House services from overhead mains. J. M. C. Field. diags Elec R (Lond) 94:871-2 My 30 '24
Increasing circuit capacity. Elec W 83:530-1 Mr 15 '24
Inexpensive underground construction. N. B. Hinson. il diags Elec W 85:720-2 Ap 4 '25
Knowing one's distribution system. Elec W 86:272-3 Ag 8 '25

ELECTRIC distribution—*Continued*

Layout of overhead electrical circuits in industrial plant yards. J. E. Housley. il plans Ind Eng 83:358-62 Ag '25

Light and power fed from same network by Memphis company. Elec W 83:793 Ap 19 '24

Messenger-cable suspension for local distribution. F. A. Westbrook. il Elec W 82:1225 D 15 '23

Metropolitan distribution systems; abstracts of A. I. E. E. papers. Elec W 84:9-10 Jl 5 '24

Motor performance on combined secondary networks. A. P. Fugill. Elec J 22:316-19 Jl '25

New type of high-tension network; an interconnecting system for the supply of electric power over large areas. P. H. Thomas. map Am Inst E E J 43:610-18 Jl '24; Discussion. 44:58-65 Ja '25

Oil switches for distribution systems. F. B. Kniskern. il diags Elec J 22:348-51 Jl '25

Open delta connection on a three-phase four-wire system. J. B. Gibbs. diags Elec J 21: 36-9 Ja '24

Power distribution problems. S. Q. Hayes. il Electrician 95:232-5 Ag 28 '25

Power distribution system of Chilean state railways electrification. D. C. Hershberger. il diags map plan Elec Ry J 63:881-8 Je 7 '24

Present state of transmission and distribution developments; report of A.I.E.E. committee. Am Inst E E J 44:1075-6; Discussion. 1150-5 O '25

Principles of three-wire distribution for electric railways. W. N. Smith. diags Sibley J 37:103-9, 131-5 My-Je '23

Recent developments in automatic network units. G. G. Grissinger. il diags Elec J 22: 336-8 Jl '25

Reducing inductance on adjacent transmission circuits. H. B. Dwight. diags Elec W 83: 89-90 Ja 12 '24

Regulators for network distribution systems. E. E. Lehr. diag Elec J 22:344-5 Jl '25

Regulators on network feeders. C. C. Hudspeth. diags Elec J 22:346-7 Jl '25

Report of Pacific coast electrical association sub-committee on 4,000 volt overhead distribution. il diags J Elec 52:447-50 Je 1 '24

Secondary sectionalizing units for subway. il diag Elec W 85:930-1 My 2 '25

60-cycle distribution system of the Commonwealth Edison company. W. G. Kelley. il diags map Am Inst E E J 44:1189-95 N '25

Small high-voltage units must be avoided. W. S. Moody. Elec W 82:1125 D 1 '23

Some properties of three-terminal electrical conducting networks. A. E. Kennelly. 311p [bibliog. p. 311] Massachusetts inst. of technology, Boston '24

Spannungsresonanzerscheinungen in ungeerdeten netzen. E. Cramer. Elektrotech Zeit 45:44 Ja 17 '24

Spannungsverlagerung an erdschlussspulen; abstract. H. Grünholz. Elektrotech Zeit 46: 1202-3 Ag 6 '25

Strom- und spannungsverhältnisse in vermaschten drehstromnetzen beim dauerkurzschluss. B. Koetzold. Elektrotech Zeit 45: 740-2 Jl 10 '24

Study of underground distribution systems for the city of New Orleans. W. R. Bullard. diag map Am Inst E E J 43:1058-62 N '24; Discussion. 44:288-93 Mr '25

Supervisory systems. C. E. Stewart. il Gen Elec R 28:448-53 Je '25

Supply power lines from lighting circuits. D. G. Wallace. diag Elec W 82:1020 N 17 '23

System relay committee. M. T. Crawford. il diag Elec W 83:420-2 Mr 1 '24

Three-wire direct-current distribution networks: some comparisons in costs and operation. H. W. Taylor. diags Inst E E J 63: 337-48 Ap '25; Same cond. Engineering 119: 87-9, 121-2 Ja 16-23 '25; Abstracts. Electrician 94:62 Ja 16 '25; Engineer 139:75-6 Ja 16 '25; Elec R (Lond) 96:117-18 Ja 16 '25; Discussion. Inst E E J 63:348-67, 480-2 Ap-My '25; Elec R (Lond) 96:118-19 Ja 16 '25

Three-wire generating systems. il diag Power Pl Eng 29:24-6 Ja 1 '25

Trouble shooting on a freak electrical layout. F. S. Rutledge. diag Power Pl Eng 28:494-5 My 1 '24

Two-phase, five-wire distribution; its engineering and economic elements. P. H. Chase. il diags Am Inst E E J 44:833-41 Ag '25; Same cond. Elec W 86:63-7 Jl 11 '25; Discussion. Am Inst E E J 44:1249-54 N '25; Elec W 86:15-16 Jl 4 '25

Underground alternating-current network distribution for central station systems. A. H. Kehoe. il Am Inst E E J 43:545-54 Je '24; Discussion. 44:288-93 Mr '25

Unusual distribution plan for city streets. diags Elec W 83:969-70 My 10 '24

Verteilung der elektrischen energie mit besonderer berücksichtigung des Bayernwerkes. A. Menge. il diags maps plans Zeit Ver Deutsch Ing 69:577-87, pl 3 My 2 '25

Virginian railway distribution system. C. L. Hancock. il Ry R 75:873-5 N 29 '24

Die wirtschaftlichste verteilung der wirk- und blindströme auf mehrere parallel arbeitende maschinen oder kraftwerke. C. v. Dobbeler. Elektrotech Zeit 45:1297-1301 N 27 '24; Abstract. Elec W 85:158 Ja 17 '25

Zähleranschluss in drehstromanlagen mit geerdetem nulleiter. D: Freyer. diags Elektrotech Zeit 46:1516-18 O 1 '25

Die zukünftige gestaltung der elektrizitätswerke. E. Wikander. Elektrotech Zeit 46: 1537-40 O 8 '25

Zur lösung der netzgleichungen. A. Thomälen. Elektrotech Zeit 45:525-7 My 22 '24

See also Balancer sets; Boosters; Busbars; Converters, Synchronous; Electric cables; Electric conductors; Electric conduits; Electric current rectifiers; Electric currents; Electric fuses; Electric lines; Electric plants; Electric plants—Interconnection; Electric power; Electric substations; Electric transformers; Electric transmission; Electric wiring; Stray currents; Street lighting; Switchboards; Synchronizing; Voltage regulation

Costs

Applying unit cost analyses to the distribution department. E. A. Barrows. Elec W 85:1405 Je 27 '25

Distribution costs of power. P. T. Davies. N E L A Bul 12:375-83 Je '25

Economics of the distribution system. H. P. Seelye. Elec W 86:107-10 Jl 18 '25

Study of underground distribution systems for the city of New Orleans. W. R. Bullard. diag map Am Inst E E J 43:1058-62 N '24

Grounding

Die amerikanische praxis in der erdung der neutralen. E. C. Stone. diags Elektrotech Zeit 46:1355-61 S 3 '25

Die ausbreitung der luft- und erdfelder um hochspannungsleitungen besonders bei erd- und kurzschlüssen. R. Rüdenberg. diags Elektrotech Zeit 46:1342-6 S 3 '25

Copper sulphate being used around ground plates. E. R. Stauffacher. il diags Elec W 85:514 Mr 7 '25

Data on ground conductors in conduit. S. W. Borden. Elec W 84:1261-2 D 13 '24

Earthing the neutral point on 3-phase transmission systems. Elec R (Lond) 94:328 F 29 '24

Die erde als wechselstromleiter. O: Mayr. Elektrotech Zeit 46:1352-5, 1436-40 S 3, 17 '25

Die erdung der neutralen in kabelnetzen, versuche mit erdschlussspulen im 30 kv-kabelnetz der städtischen elektrizitätswerke Berlin. E. Neumann. diags Elektrotech Zeit 45:261-6, 294-7 Mr 27-Ap 3 '24

Erdungsfragen; abstract. M. Schiesser. Elektrotech Zeit 45:498-9 My 15 '24

Fire peril in imperfect grounding. H. W. Spang. Safety Eng 48:159-60 O '24

Ground-current control and station electrical grounds; report of Pacific coast electrical association. J Elec 54:492-8 Je 1 '25

ELECTRIC distribution—Grounding—*Continued*
Grounding conductors for protective purposes. R. Brown. il Elec W 83:578-9 Mr 22 '24
Grounding of electric machinery. W. Hilleary. Power 59:905-6 Je 3 '24
Grounding of electrical circuits. M. G. Lloyd. U S Bur Stand misc pub 58:48-9; Discussion. 49-52 '24
Grounding transformer secondaries. J. B. Gibbs. diags Power 60:323-4 Ag 26 '24
Höchstspannungsfragen und nullpunktserdung. A. Rachel. Elektrotech Zeit 46:1347-50 S 3 '25
How to ground electrical mining machinery. C: M. Means. Coal Age 25:947-8 Je 26 '24
Industrial accident commission grounding rules. E. E. Browne. diag J Elec 54:328 My 1 '25
Is the overhead ground wire effective? C. C. Moler. Elec W 82:1110; Discussion. F. W. Peek, jr. 1110 D 1 '23
Kurzschlussstrom bei doppelerdschluss. T. Panzerbieter. Elektrotech Zeit 45:719-20 Jl 3 '24
Lightning-arrester grounds. H. M. Towne. il Elec W 83:131-5, 183-7 Ja 19-26 '24
Measurement of ground resistance. diag Elec W 85:1081 My 23 '25
National electrical code circuit grounding requirements. C. W. Mitchell. J Elec 52: 124-5 F 15 '24
Neutral wire on a three-wire system. J: H. Parker. diags Elec R (Lond) 96:444-6 Mr 20 '25
Overhead distribution construction. diags Elec W 83:1136, 1190 My 31-Je 7 '24
Regulation of the earth potentials of alternating-current systems. T. R. Warren. diags Inst E E J 63:1018-22 O '25
Report of A.I.E.E. committee on grounding of systems. diags Am Inst E E J 44:1232-6 N '25
Le retour du courant par la terre, et les dispositifs de mise à la terre. L. Sekutowicz. Génie Civil 83:353-4; 85:20-1 O 13 '23, Jl 5 '24
Über die nullpunktserdung elektrischer generatoren. H. Schult. Elektrotech Zeit 46: 214-17 F 12 '25

Grounds and faults

Automatic fault-localising on electric railways. H. Luthy. il diag Elec R (Lond) 93: 723-6 N 16 '23
Beitrag zur erdschlussfrage in hochvoltnetzen. R. Arnold and P. Bernett. Elektrotech Zeit 46:1263-4 Ag 20 '25
Chart for locating street-lighting grounds. E. E. Norman. il diag Elec W 85:566-7 Mr 14 '25
Clearing trouble on underground feeder sections. Elec Ry J 65:67 Ja 10 '25
Combination of two unusual grounds caused shutdown of generator. A. J. Dixon. diags Ind Eng 82:299 Je '24
Development and use of ground detectors. E. R. Stauffacher. il diags Elec W 85:770-1 Ap 11 '25
Equivalent single-phase networks for calculating short-circuit currents due to grounds on three-phase star grounded systems. R. A. Shetzline. diags Am Inst E E J 43:1014-20 N '24; Discussion. 44:293-5 Mr '25
Ground current control and station grounds. F. H. Mayer. diags J Elec 54:54-6 Ja 15 '25
Locating faults in synchronous motors. B. A. Briggs. il Power 60:644-6 O 21 '24
Locating faults in underground cables. V: Truant. diag Elec W 84:687-8 S 27 '24
Locating grounds on motor circuits. A. Haist. diag Power Pl Eng 28:655-6 Je 15 '24
Locating high-resistance faults in cables. C. G. Watson. diags Elec W 83:1286 Je 21 '24
Locating trouble in power circuits run in conduit. diag Ind Eng 83:293-4 Je '25
Method of using test lamp on grounded circuits. J. E. Housley. diag Ind Eng 83:395 Ag '25
Methods of locating faults on underground cables. C. T. Sinclair. diags Elec W 85: 355-6 F 14 '25
Eine neue fehlerortsmessung bei hohem übergangswiderstand. K. Grootoonk. diags Elektrotech Zeit 45:1054-5 O 2 '24
Selbsttätige fehlerbegrenzung in fahrleitungsnetzen. H. Lüthy. Elektrotech Zeit 45:373-4 Ap 17 '24
Some ground troubles on a lighting circuit. L. L. Pollard. diag Power 59:221 F 5 '24
Transformer used as ground detector. S. F. Jones. il diag Elec W 82:1023 N 17 '23
Trouble shooting in d.c. motors and generators. C: G. Green. diags Power Pl Eng 29: 1054-6 O 15 '25
Using graphic meters for detecting grounds. R. H. Bahney. il diags Ind Eng 83:415-17+ S '25

Tables, calculations, etc.

Blindverbrauchsmessung in drehstromnetzen. A. Sengel. Elektrotech Zeit 45:973-5 S 11 '24
Calculating distribution lines. A. Burt. Elec W 83:232-3 F 2 '24
Calculating table for calculating short circuit currents on distribution networks. il J Elec 52:460-2 Je 1 '24
Economies of distribution. J. F. H. Douglas. Elec W 84:1145-8 N 29 '24; Discussion. H. P. Seelye. 85:148 Ja 17 '25
How to calculate three-phase power distributing circuits. J. G. Berger. diag Power 59:1030-1 Je 24 '24
New network theorem. A. Rosen. Inst E E J 62:916-18 N '24; Discussion. 63:303-4 Mr '25
Schnelle berechnung von spannungsabfällen in leitungsnetzen. E. Rosseck. Elektrotech Zeit 45:1333-7, 1372-7 D 4-11 '24
Unsymmetrische mehrphasensysteme. G. Rasch. diags Elektrotech Zeit 46:1446-7 S 17 '25

ELECTRIC double layer
Conception and properties of the electrical double layer and its relation to ionic migration. J. W. McBain. diags J Phys Chem 28: 706-14 Jl '24
Effect of an electric current on the motion of mercury globules in dilute sulphuric acid, and its bearing on the problem of the electrolytic double layer. J. E. P. Wagstaff. diag Philos Mag 6th ser 47:802-15 My '24
Experiments on the sign of the electrical layer furthest away from the surface of a solution in contact with air or a metal. R. D. Kleeman and C. R. Pitts. diag J Phys Chem 20:508-16 My '25
General formulation of movement in an electrical field; migration, electrophoresis and electroösmosis of sodium oleate. M. E. Laing. diags J Phys Chem 28:673-705 Jl '24
Mutual action of charged particles in liquid media. E. F. Burton and J. E. Currie. diags Philos Mag 6th ser 49:194-209 Ja '25

ELECTRIC driving
Allis adjustable delivery motor drive. il diag Power 62:222 Ag 11 '25; Power Pl Eng 29: 1072-3 O 15 '25
Argument for the slow-speed direct-connected d.c. motor for ventilating fan drive. J. L. McK. Yardley. il Heat & Ven 21:43-6 Ap '24
Attacking power losses in transmission and utilization. T. Croft. il diags Ind Management 68:349-56 D '24
Automatically controlled asbestos mill. A. A. St Aubin. il diags Elec W 85:655-7 Mr 28 '25
Central-station power for paint factory. F. A. Westbrook. il Elec W 85:1267-8 Je 13 '25
Comparison of group and individual drive. R. W. Drake. il Ind Management 68:178-83 S '24; Same cond. Brick & Clay Rec 66:594-7 Ap 14 '25
Control gear for beet sugar manufacture. J. O. Knowles. il Elec R (Lond) 97:566-7 O 9 '25
Electric drive in fuel preparation. Am Inst E E J 43:855-7 S '24
Electric motor drive for centrifugal compressors. G. Fox. Blast F & Steel Pl 13:35-7 Ja '25

ELECTRIC driving—*Continued*
Electric motor in the crushed stone industry. E. W. Pilgrim. il Gen Elec R 28:762-9 N '25
Electric motors for driving centrifugal water pumps. E. G. Sohlberg. il Chem & Met Eng 30:832-3 My 26 '24
Electrically driven stone quarry; the Leckhampton quarries co.'s undertaking. il Elec R (Lond) 97:311 Ag 21 '25
Elektrische antriebe und blindleistungserzeugung. il diags Elektrotech Zeit (special no.) 45:39 Ag 28 '24
Die elektrizität im baubetriebe. F. Kunath. il diag Zeit Ver Deutsch Ing 68:709-11, 735-7 Jl 5-12 '24
Die elektrotechnik in halle 9 der technischen messe. K. Meller. il diag Elektrotech Zeit (special no.) 46:11-13 Mr 1 '25
Emergency conveyor drive prevents interruption. diag Elec W 85:1134 My 30 '25
Factors which control the choice of a fan. F. L. Stone. il Coal Age 26:644-6 N 6 '24; Discussion. Am Inst E E J 44:409-11 Ap '25
Features of motor applications in industrial plants. E. Douglas. Ind Management 68: 314-16 N '24
Fördermaschinenantrieb durch asynchronmotor. diags Elektrotech Zeit 45:983-4 S 11 '24
Individual electric drive versus individual steam drive. Textile Col 47:104-5 F '25
Individual motor drive for presses. H. L. Wheeler. Inland Ptr 75:617 Jl '25
Industrial motor drives. il Ind Eng 83:74-6 F '25
Industrial motor drives. A. J. Whitcomb. il Ind Eng 82:72-3 F '24
Industrial power installations. C. T. Payn. Elec R (Lond) 96:389-90 Mr 6 '25
Layout of group and individual drives. R. W. Drake. il Ind Eng 82:174-7 Ap '24
Maintenance; gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 34:256-60+ F '25
Molding machine driven electrically. il Foundry 52:786 O 1 '24
Motor-operated centrifugal pumps. B. A. Cornwell. Iron Age 112:1577-8 D 13 '23
Motor vs. engine in driving centrifugals. R. Hudson. Chem & Met Eng 30:954 Je 16 '24
Power and transmission. Factory 33:102+ Jl '24
Power service layout for a woodworking plant. F. A. Westbrook. il Ind Eng 83:316-19 Jl '25
Problems of electric drive for ventilating equipment. F. R. Still. Heat & Ven 21:57-8 Ja '24
Problems on electric drive for ventilating equipment. Power 58:829 N 20 '23
Purchased power as applied to plate glass manufacture; substation built for the Crystal City plant. A. L. Harrington. diags Am Inst E E J 44:463-8 My '25
Selecting the best type of motor for driving a mine fan at variable speed. B. M. Chadbourne. il Coal Age 25:722-5 My 15 '24
Small or large motors for industrial plants. M. G. Farrell. il Power Pl Eng 29:901-5 S 1 '25
Some details of power drives with individual motors and silent chains. D. W. Taylor. il Ind Eng 83:214-18 My '25
Something new in electric rotary drilling. L. H. Keim. il Eng & Min J 118:354 Ag 30 '24
Stopping leaks in power application. H. E. Duren. Factory 33:48-9 Jl '24
Tendencies in the electrification of Cuban sugar mills. C. A. Kelsey. il Gen Elec R 27:384-9 Je '24
Wahl der stromart für hebezeuge unter besonderer berücksichtigung der hafenkrane. H. Gettert. Elektrotech Zeit 45:353-9 Ap 17 '24
When to use group and individual drives. R. W. Drake. il Ind Eng 82:56-60+, 118-22 F-Mr '24

See also Cranes, derricks, etc.—Electric equipment; Electric hammers; Electric motors; Electric power; Electric shovels; Electricity in lumbering; Electricity in mining; Electricity in petroleum industry; Elevators, Electric; Machine tools—Electric driving; Mine hoisting, Electric; Pumping machinery, Electric; Ship propulsion, Electric; Steel works—Electric equipment; Textile mills—Power

Brick works

Brickyard uses 1,000 hp. in motors. G. R. Mitten. Elec W 86:126-7 Jl 18 '25
Facts on the problem of electrification. J. R. Downs. il Brick & Clay Rec 65:323-6 S 2 '24
Synchronous motor drive in brick plant. R. H. Triem. il Elec W 85:1137-8 My 30 '25

Cement plants

Electric power in the cement industry in Canada. W. G. H. Cam. flow sheet il diag Concrete (cement mill sec) 25:104-6 D '24

Gas works

Electricity in the carbonisation industries. H. Seymour. il Elec R (Lond) 96:339-41 F 27 '25

Ice plants

Application of electric energy to the modern ice making and refrigerating plant. P. Schlingman. diag Refrig Eng 11:165-72 N '24; Abstract. Power Pl Eng 28:961-3 S 15 '24; Discussion. Refrig Eng 11:172 N '24
Electrically driven ice plant. F. Ophuls. Refrig Eng 11:377-87+ My '25; Discussion. 11: 419-28; 12:99-100 Je, S '25
Fulton ice co. installs electrified plant. il Power Pl Eng 28:152-3 Ja 15 '24
Ice making with electric power. il Elec W 82: 1215-18 D 15 '23
Manufactured ice—an opportunity. A. J. Authenreith. il Elec W 86:797-800 O 17 '25; Discussion. H. D. Panton. 86:950-1 N 7 '25
Synchronous motor drives in ice and refrigerating plants. T. Hibbard. Refrig Eng 11: 392-8 My '25
Unbiased comparison of ice-plant drives. Elec W 86:264-6 Ag 8 '25; Discussion. 86: 902 O 31 '25

Paper mills

Details of paper-mill drives and power service. H. E. Stafford. il diags Ind Eng 82: 360-7+ Ag '24
Dual-frequency supercalender drive. W. H. Scott. il diags Elec W 85:705-7 Ap 4 '25
Dual-frequency super-calender drive increases production 25 per cent. il Elec W 84:1048 N 15 '24
Electric sectional drive. O. C. Cordes. il diags Paper 34:185-9 My 22 '24
Electrical supercalender drive. O. C. Cordes. il diag Paper 33:9-11 F 28 '24
Electricity and news print—mostly news print. W. W. Cronkhite. Paper 34:293-4 Je 5 '24
Electricity in the paper industry. W. W. Spratt. il Tech Assn Pa ser 7:69-73 Je '24; Same. Paper Tr J 78:46-50 Je 19 '24
Elektrische papiermaschinenantriebe. W. Stiel. 286p [bibliog. p. 278-80, 281-3] S. Hirzel, Leipzig '24
Evolution of the sectional drive. H. W. Rogers. il diags Paper Tr J 81:99-102 O 29 '25
Grosskraftschleifer. F. Hoyer. Zeit Ver Deutsch Ing 69:756-9 My 30 '25
Model paper-making at Wembley; the Harland sectional electric drive. il Elec R (Lond) 95:674-5 O 31 '24
Motor drive and control for beaters. O. C. Cordes. il Paper Tr J 79:45-6 D 25 '24
Paper mill power drive and motor control layout. C. S. Newcomb. il Ind Eng 83:510-16 N '25
2600 h.p. motors for a paper pulp mill. il Engineer 140:95-6 Jl 24 '25
Vielmotorenantriebe für papiermaschinen. W. Stiel. diags Elektrotech Zeit 46:445-50, 493-7 Mr 26-Ap 2 '25

Power plant auxiliaries

Application of motors to power house auxiliary drives. H. L. Smith. Power 59:817-19 My 20 '24

ELECTRIC driving—Power plant auxiliaries —*Continued*
Auxiliaries and auxiliary drives for steam-electric generating stations. A. L. Penniman, jr. and F. W. Quarles. Power 62:623 O 20 '25
Auxiliary drive and the heat balance. diags Power 61:508; 62:24-6, 375 Mr 31, Jl 7, S 8 '25
Developments in electric drive for central station auxiliaries. J. W. Dodge. il diags Gen Elec R 27:404-14 Je '24
Drive of power station auxiliaries. L. Breach and H. Midgley. diags Inst E E J 61:829-45 Ag '23; Abstracts. Elec R (Lond) 92:713-14 My 4 '23; Engineer 135:468 My 4 '23; Discussion. Inst E E J 61:845-62; 62:243-7 Ag '23, Mr '24; Elec R (Lond) 92:714, 808-9 My 4, 25 '23
Generator for direct-current auxiliaries driven by main unit. Power 60:211 Ag 5 '24
House service generators; their types and field of application. W. R. Herod. il Gen Elec R 27:549-54 Ag '24
Improving steam turbine operation. J: M. Drabelle. il Power Pl Eng 28:478-80 My 1 '24
Motor applications in the boiler room. H. W. Smith. il Power Pl Eng 28:700-3 Jl 1 '24
Motor drives for turbine auxiliaries. H. W. Smith. il diag Power Pl Eng 28:807-10 Ag 1 '24
Motors and control for stoker drive. R. Kelly. il diag Elec J 21:221-4 My '24
Operating requirements of power-plant auxiliary equipment. Power 61:233-4 F 10 '25
Power supply for central station auxiliaries. J. W. Dodge. il diags Power Pl Eng 29:432-5, 599-600 Ap 15, Je 1 '25
Relay protection of power-house motors. R. Kelly. il diags Elec J 22:438-41 S '25
Turbine- and boiler-room auxiliaries; abstracts. G. G. Bell. Mech Eng 47:188-91 Mr '25; Power 61:356, 589-90, 710-11 Mr 3, Ap 14, My 5 '25
Use of electrically driven auxiliaries increases. il diag Power Pl Eng 29:328-32 Mr 15 '25

Railroad shops

Purchased power saves $15,000 in railroad shops. J. G. Horgan. Elec W 86:907-8 O 31 '25

Rolling mills

Advantages of adjustable-speed drives for rolling mills. W: B. Shirk. il diags Elec J 22:414-17 S '25
Bar mill and structural electrification of the Phoenix iron company. J. S. Erichson. il plans Elec J 21:403-7 S '24
Blooming mill has heavy drive. R. A. Fiske. il diags Iron Age 116:1019-23 O 15 '25
Changing a steel mill main roll motor drive. A. W. McAuly. il Ind Eng 82:423-7+ S '24
Electric drive for reversing mill. C. B. Huston. il diags Elec W 82:577-80 S 22 '23; Same abr. Blast F & Steel Pl 11:642+ D '23
Electric plant for iron and steel works. R. Orsettich. Electrician 91:598-9 N 30 '23
Electrical steel-mill development in 1923. Iron Age 112:1662-4 D 20 '23
Electrically-driven rolling mills; some recent electrical developments. L. Rothera. Elec R (Lond) 96:33-4 Ja 2 '25
Electricity simplifies operation of a modern steel mill. C. H. Tallant. il J Elec 54:316-21 My 1 '25
Electricity's contribution to the steel industry. K. A. Pauly. diags Am Inst E E J 43:831-9 S '24
Electrifying ten-inch merchant mill; producing cutlery steel without marking and without reheating. M. J. Wohlgemuth and M. H. Morgan, jr. il diag plan Elec W 84:465-8 S 6 '24
Elektrischer antrieb von drahthaspeln. E. Herrmann. il diag Stahl & Eisen 44:405-6 Ap 10 '24
Engineering achievements in 1924. H. W. Cope. il diag Blast F & Steel Pl 13:76-8 F '25
Die entwicklung der elektrischen walzwerk-antriebe. F. Rohde. il diags Elektrotech Zeit 46:217-23, 261-7 F 12-19 '25
Interesting new Scherbius drive. H. C. Uhl. Blast F & Steel Pl 13:376-7 S '25
Large electrical reversing rolling mill drive. il Iron Age 113:999-1000 Ap 3 '24
Mill electrification at the Colorado fuel & iron co., Minnequa works, Pueblo. Iron Age 115: 1703 Je 11 '25
Motorizing structural mill at Homestead. S. S. Wales. il diags Blast F & Steel Pl 12: 38-42 Ja '24
New motor drives on sheared plate mills. W. S. Hall. il charts Elec J 21:407-8 S '24
New sheet bar and hot strip mills of the Otis steel co., Cleveland. F. L. Prentiss. il Iron Age 114:1141-6 O 30 '24
New trends and recent progress in solving problems of steel mill operation. A. J. Whitcomb. il Ind Eng 83:406-14+ S '25
New 20-16 in. hot strip mill. N. Jones and G. P. Wilson. il Am Inst E E J 43:710-15 Ag '24
Problems of steel mill operation. A. J. Whitcomb. il Ind Eng 82:408-16+ S '24
Rehabilitation of steel mills. J. M. Moore and H. M. McLain. il Elec J 21:424-7 S '24
Rolling mill adjustable-speed drivers. L. A. Umansky. diags Ind Eng 82:466-7 O '24
Rolling mill electric operation. Iron Age 115: 488-9, 1880 F 12, Je 25 '25
Rolling mill equipment. W. E. Taylor and C. E. Raeburn. il Electrician 91:600-2 N 30 '23
Why electrification of mill drives is economical. S. S. Wales. Blast F & Steel Pl 12:412-14 S '24

Rubber mills

Safety features of electric motor drive for rubber mill lines. C. W. Drake. il Rubber Age 14:341+ F 10 '24
Synchronous motor drive for rubber mills; with special reference to dynamic braking control for safety stopping. C. W. Drake. il diags Am Inst E E J 44:350-3 Ap '25; Same. India Rubber W 72:530-3 Je '25; Discussion. Am Inst E E J 44:1122-6 O '25

Sawmills

Electric power application in Pacific Northwest fir mills. J. L. Wright. il Am Inst E E J 43:1117-23 D '24; Discussion. 44:407-9 Ap '25
New electrically driven flooring plant. E. B. Clement. il Gen Elec R 27:602-8 S '24
Percy electric dog and taper device for saw mill carriages. J. J. Tallman and C. A. Binns. il Gen Elec R 28:91-5 F '25

Ships' auxiliaries

Electrically-driven ships' auxiliaries; Austin system. diags Elec R (Lond) 95:79-80 Jl 11 '24; Engineering 118:734-5 N 28 '24
Les moteurs électriques à bord des navires. F. Collin. Génie Civil 86:515-17 My 23 '25
New system of driving ship and other auxiliaries. G. Austin. diags Engineer 138:580 N 21 '24
Ships' auxiliary machinery; the electric motor drive. L. Miller. Elec R (Lond) 94:768-9 My 9 '24

Textile mills

Carpet manufacture; electric drive replaces steam. il Electrician 92:256-7 F 29 '24
Driving of textile mills; the advantages of electric drive. H. Hall. il Electrician 92: 252-3 F 29 '24
Driving wet finishing machinery. il Textile World 64:3159+ N '23
Early textile electrifications in the South. B. S. Havens. il Gen Elec R 28:569-73 Ag '25
Electric drive in carpet mills. il Elec R (Lond) 97:20-2 Jl 3 '25
Electric drive in the cotton industry. F. B. Holt. il diags Electrician 94:232-4 F 27 '25
Electric driving of large cotton spinning mills. il Elec R (Lond) 96:459-61 Mr 20 '25
Electrically-driven linen mill. il diag Elec R (Lond) 96:699-702 My 1 '25
Electricity in the textile industry; some notes on conditions in Germany. W. Muhlens. Electrician 93:261 S 5 '24

ELECTRIC driving—Textile mills—*Continued*
Electrification of flax spinning mills on heat economy lines; abstracts. C. F. Green. Elec R (Lond) 94:37-8 Ja 4 '24; Electrician 92:254-5 F 29 '24
Der elektrische einzelantrieb der ringspinnmaschine. W. Kerb. il diags Elektrotech Zeit 46:1501-4 O 1 '25
Elektrischer einzelantrieb von bastfasern-spinn- und zwirn-maschinen durch wechselstrom-kommutatormotoren mit eingebautem zahnradvorgelege. il Elektrotech Zeit 45:1355-6 D 4 '24
Fabric printing; special points in converting equipment to the electric drive. B. C. Johnson. il Electrician 92:258-9 F 29 '24
Individual motor drive for cards. C. T. Guildford. il Textile World 67:1686+ Mr 7 '25
Modern weaving shed operation. il Electrician 94:238 F 27 '25
Review of the electrical features of the Manchester show. il diag Elec R (Lond) 97: 675-7 O 23 '25
Selecting motors for cotton mills. W: S. Maddocks. il Elec W 83:272-7 F 9 '24
Some notes on individually-driven textile machinery. A. Haigh. Elec R (Lond) 97:409-10 S 11 '25
Spinning and weaving mills; modern methods of electric driving used in Germany. H. Fuhrken. il Electrician 94:235-7 F 27 '25
Textile electrification abroad; a continental spinning mill fitted with Oerlikon drives. il Electrician 92:260 F 29 '24
Textile machinery exhibition, 1925. il Elec R (Lond) 97:711-13 O 30 '25
Variable-speed drives for calico printing machines. il Elec R (Lond) 94:221-3 F 8 '24

ELECTRIC elevators. See Elevators, Electric

ELECTRIC engineering
Application engineering. H. W. Cope. Sibley J 38:40-1+ F '24
Applied electricity. R. B: De Lano. 205p Heath '24
Applied electricity for practical men. A. J: Rowland. 2d ed. 443p McGraw-Hill '24
Audel's handy book of practical electricity with wiring diagrams. F. D. Graham. 986p T. Audel & co., New York '24
Better engineering needed in industry. C. B. Wright. Elec W 84:1000-1 N 8 '24
Electrical drafting and design. C. C. Bishop. 165p McGraw-Hill '24
Electrical engineering. 4v Am. tech. soc., Chicago '23
Electrical engineering. C. V. Christie. 3d ed., rev. & enl. 613p McGraw-Hill '25
Electrical engineering. L: A. Hazeltine. 625p Macmillan '24
Electrical engineering in 1923. il (supp) Engineer 137:20-2 Ja 4 '24
Electrical engineering in 1924. il (supp) Engineer 139:25-7, 38-41 Ja 2-9 '25
Electrical engineering problems; direct-current circuits and apparatus. J: G. Pertsch, jr. 215p McGraw-Hill '25
Electrical engineering twenty-five years ago. J. E. Woodbridge. Elec W 84:605-7 S 20 '24
Electrical handling of materials. H. H. Broughton. 354p Van Nostrand '23
Electrical progress and its unsolved problems; abstracts. E. Thomson. Elec R (Lond) 95: 197-8, 267-9 Ag 1, 15 '24; Engineer 138:52-3 Jl 11 '24
Electrical technology. H. Cotton. 376p Pitman '24
Die elektrizität, ihre erzeugung und ihre anwendung in industrie und gewerbe. A. Wilke. 7th ed., rev. & enl. 805p Neufeld & Henius, Berlin '24
Die elektrotechnik auf der Leipziger frühjahrsmesse 1924. W. Kraska. il diags Elektrotech Zeit 45:321-9 Ap 10 '24
Elements of applied electricity. H. H. Bliss. 494p Holt '25
Elements of electrical engineering. A. L. Cook. 568p Wiley '24
Elements of electrical engineering. G: D. Shepardson. 335p Macmillan '24
Elements of electricity. W: H: Timbie. 2d ed, rev. 624p Wiley '25
Engineering achievements in 1924. H. W. Cope. il diag Blast F & Steel Pl 13:76-8 F '25
Film visualizes electrical progress. il Elec W 85:777 Ap 11 '25
Hilfsbuch für die elektrotechnik. K. G. B. C. Strecker. 10th ed., rev. 739p J. Springer, Berlin '25
Hundred years of electrical engineering. G. W. O. Howe. Engineer 138:166-8 Ag 8 '24; Abstracts. Engineering 118:193-5 Ag 8 '24; Electrician 93:178 Ag 15 '24; Can Eng 47:541-2 N 25 '24
Industrial electricity. C. L. Dawes. 2v v 1. 372p McGraw-Hill '24
Industrial research, with special reference to electrical engineering development. W. Wilson. diags Inst E E J 62:61-82 Ja '24; Abstract. Electrician 91:510-11 N 9 '23; Discussion. Inst E E J 62:83-107 Ja '24; Electrician 91:515; 92:7 N 9 '23, Ja 4 '24
Job instruction sheets on practical electricity. W. B. Weber. 62p Wiley '24
Les journées de discussions de la Société française des électriciens. Génie Civil 86: 234-8, 256-9 Mr 7-14 '25
Justification for engineering. R. W. Gregory. Electrician 95:502 O 30 '25
Law description and hypothesis in the electrical science. M. I. Pupin. Am Inst E E J 44:741-6 Jl '25
Nickel and electrical engineering. F. B. H. White. Electrician 93:610+ N 28 '24
Principles and practice of electrical engineering. A. Gray. 3d ed., rev. 451p McGraw-Hill '24
Progress of electrical engineering since the war. A. Russell. Inst E E J 62:1-18 D '23; Same cond. Elec R (Lond) 93:635-7 O 26 '23
Roper's questions and answers for stationary and marine engineers and electricians. S. Roper. 7th ed., enl. 352p McKay '25
Swoope's lessons in practical electricity. H. N. Stillman and E. Hausmann. 16th ed., rev. and enl. 625p Van Nostrand '24
Technical section of Pacific coast electrical association holds initial meeting, Los Angeles, Sept. 23-25. J Elec 55:310-12 O 15 '25
Unsolved problems in electrical engineering. Engineering 118:56-7 Jl 11 '24
Year's engineering developments reported by Westinghouse. Eng N 93:1014 D 18 '24

See also Armatures; Automobiles—Electric equipment; Commutation (electricity); Commutators; Electric apparatus and appliances; Electric contractors; Electric distribution; Electric driving; Electric generators; Electric heating; Electric lighting; Electric lines; Electric machinery; Electric measurement; Electric meters; Electric motors; Electric plants; Electric railroads; Electric transmission; Electric wiring; Electricity; Electricity in mining; Electricity on the farm; Foundries—Electric equipment; Hydroelectric plants; Radio communication and other headings beginning Radio; Railroads—Electric equipment; Railroads—Electrification; Ship propulsion, Electric; Ships—Electric equipment; Steel works—Electric equipment; Telegraph; Telephone; Watt-hour meters; *also* World power conference, London, 1924

Bibliography

Library section. Published in monthly numbers of General electric review
Recent publications of the N.E.L.A. Published in monthly numbers of National electric light association bulletin
Transactions of the American institute of electrical engineers; index, 1911-1921, v. 30-40. 167p American inst. of elec. engineers, 33 W. 39th st., New York '25

Laboratory manuals

Laboratory manual, direct and alternating current. C. E: Clewell. 3d ed., rev. 112p Wiley '24
Practical problems in electrical construction. L. D. Perry and O. R. Buck. 66p Bruce pub. co., Milwaukee, Wis. '23

ELECTRIC engineering—*Continued*

Laws and regulations

Advantages of Wisconsin electrical code. J: A. Hoeveler. Elec W 85:821 Ap 18 '25

Changes in Wisconsin code. Elec W 82:1132 D 1 '23

Factory and workshop acts, 1901-1920. Gt. Brit. Home dept. 3d ed. 86p. H. M. Stationery off., London '24

New electrical code put in effect in Portland. J Elec 52:259 Ap 1 '24

New Los Angeles electrical ordinance will regulate contractors. J Elec 53:333 N 1 '24

New regulations for overhead lines. Elec R (Lond) 93:793-4 N 23 '23

Rules covering installation of wires and electrical equipment. 122p Oregon bur. of labor statistics, Salem '24

Wisconsin state electrical code. 2d ed. 308p Wisconsin Industrial commission, Madison '25

See also Electric codes

Periodicals

Bibliography

Electrical magazines published in the United States and foreign countries including house organs. N E L A Bul 11:108-11 F '24

Safety devices and measures

Accidents are not an act of God. il N E L A Bul 11:647-50 O '24

Betriebssichere elektrische schaltgeräte. W: Höpp. diags Elektrotech Zeit 45:69-74, 91-6 Ja 31-F 7 '24

Construction department safety rules. Elec W 84:1004-5 N 8 '24

Electrical key (Philadelphia edition). W. Devereux. 160p Washington Devereux, Bullitt bldg., Philadelphia '24

Experiences prevent accidents. Elec W 83:624 Mr 29 '24

Fundamentals of safe electrical construction. J: A. Hoeveler. Elec W 83:577 Mr 22 '24

Hold-off tags for feeders and cables. G. H. McKelway. Elec W 86:123-4 Jl 18 '25

Indication of energized circuits. W. J. Ducey. il Elec W 86:369 Ag 22 '25

Live wires and their relation to live wiremen. G. E. Kimball. J Elec 52:288-9 Ap 15 '24

Making power-line work easy and safe. G. E. Kimball. Coal Age 25:506-7 Ap 3 '24

Practical safety don'ts for the electrical department. W: McNally. Ind Eng 82:201 Ap '24

Safe practices, tools and devices; report of Pacific coast electrical association. J Elec 54:431-6 Je 1 '25

Safeguarding electricity. D. Pierce. Safety Eng 47:8-10 Ja '24

Safety with service amid high voltages. N. I. Sommers. il Nat Safety N 11:32 Ja '25

Testing the lineman's belt. il Nat Safety N 8:31-2 D '23

Where service is first and safety always; Texas power and light company, Dallas. G: E. Wallis. il Nat Safety N 9:5-8 Mr '24

Wo besteht die gefahr durch berührung in elektrischen niederspannungsanlagen? W. Vogel. Elektrotech Zeit 46:452-4 Mr 26 '25

See also Electric codes; Electric protective apparatus; Electric substations—Safety devices and measures; Linemen's equipment—Testing; *also* National electrical code

Standards

I.E.C. and international standardisation. R. B. Matthews. Elec R (Lond) 96:648, 688-9, 727-8 Ap 24-My 8 '25

Standardization means economy. A. W. Whitney. Elec W 83:33-5 Ja 5 '24

Study and teaching

Beginnings of electrical engineering at Cornell university. F: Bedell. il Sibley J 39:290-2 Mr '25

Better examinations. F. G. Switzer and K. D. Wood. Sibley J 37:98-102 My '23

Cooperative course in electrical engineering of the Massachusetts institute of technology. W: H. Timbie. Am Inst E E J 44:613-17 Je '25; Discussion. 44:1127-9 O '25

Electrical education in 1924. Elec W 85:1019-20 My 16 '25

Electrical educational institutions get closer to industry. Elec W 84:311-13 Ag 16 '24

Evolution of electrical engineering instruction as reflected in the pages of the Electrical world. H: H. Norris. J Eng Educ 15: 42-8 S '24

Die neueinrichtungen des Instituts für schwachstromtechnik der technischen hochschule Dresden. H. Barkhausen. il diag Elektrotech Zeit 45:1338-41 D 4 '24

North-eastern centre—chairman's address. W. T. Maccall. Inst E E J 63:122-8 Ja '25

Recognizing the exceptional student. Mech Eng 47:865 O '25

Relation of engineering education to industry. F. C. Pratt. Gen Elec R 28:468-71 Jl '25; Same. J Eng Educ 16:134-42 O '25

Relationship of educators to the electrical industry. W. W. Hill. Sibley J 38:195-6+ N '24

Tables, calculations, etc.

Alternating currents and transients treated by the rotating vector method. P. M. Colebrook. 195p McGraw-Hill '25

Alternator short-circuit currents; the calculation of sudden rushes based on physical phenomena. A. Fraenckel. diags Electrician 92:224-5 F 22 '24

Analytical solution of networks. R. D. Evans. Elec J 21:149-54, 207-13 Ap-My '24

Analyzing bids for apparatus; formulas derived as an aid in the computations involved. T: E. Penard. Elec W 86:948-9 N 7 '25

Application of decrement factors in short-circuit studies. W. R. Woodward. Elec J 21:213-16 My '24

Application of hyperbolic functions to electrical engineering problems. A. E. Kennelly. 3d ed. 352p McGraw-Hill '25

Artificial representation of power systems. H. H. Spencer and H. L. Hazen. bibliog il diags Am Inst E E J 44:24-31 Ja '25

Beitrag zur berechnung der wicklungsausladung bei elektrischen maschinen. O. Eckstein. diags Elektrotech Zeit 46:1302-3 Ag 27 '25

Beitrag zur symbolischen rechnung. A. Thomälen. diags Elektrotech Zeit 46:1187-90 Ag 6 '25

Beiträge zu seilberechnungen. J. Kuusinen. diags Elektrotech Zeit 46:989-92 Jl 2 '25

Berechnung des ein-, zwei- und dreipoligen dauerkurzschlussstromes in kraftwerken und netzen. F. Ollendorff. diags Elektrotech Zeit 46:761-8 My 21 '25

Calculating distribution lines. A. Burt. Elec W 83:232-3 F 2 '24

Calculating the torque of a single-phase motor from theory may introduce errors. K. L. Hansen. Elec W 83:94 Ja 12 '24

Calculation of short-circuit ground currents on three-phase power networks, using the method of symmetrical co-ordinates. S. Bekku. diags Gen Elec R 28:472-8 Jl '25

Calculation of transformers. H. Bohle. diags Electrician 94:448-9+, 478-9+, 512-13+ Ap 17-My 1 '25; Correction. 94:601 My 22 '25

Changing a.c. windings for different frequencies. A. C. Roe. Ind Eng 82:187-93+ Ap '24

Chart for finding kva. required to raise power factor to desired value. Ind Eng 82:595 D '24

Charts for regulation of transformers. A. A. Boelsterli. Inst E E J 63:692-6 Jl '25

Corona loss tests on the 202-mile 60-cycle 220-kv. Pit-Vaca transmission line of the Pacific gas and electric company. R. Wilkins. diags Am Inst E E J 43:1109-16 D '24; Discussion. 44:513-22 My '25

Darstellung elektrischer beziehungen im raumdiagramm. J. Wotschke. Elektrotech Zeit 45:528-9 My 22 '24

ELECTRIC engineering—Tables, calculations, etc.—*Continued*
Determination of the reactive kv-a. and the capacity necessary to improve power-factor. J. Hak. Gen Elec R 28:798-9 N '25
Dielectric strength of insulation. V. M. Montsinger. Elec W 84:723-7 O 4 '24
Direct method of calculation of capacitance of conductors. H. B. Dwight. Am Inst E E J 43:1034-9 N '24; Discussion. 44:299-300 Mr '25
Discussion at American institute of electrical engineers midwinter convention on transmission systems. Am Inst E E J 43:858-82, 980-8 S-O '24
Dissimilar transformers in delta; vector solution. J. B. Gibbs. diags Elec J 22:121-2 Mr '25
Economic balance in electrical transmission. P. C. Jones. Elec J 22:9-12 Ja '25
Economics of generation and distribution. G. Semenza. Elec R (Lond) 95:678-9 O 31 '24
Economics of power-factor correction. R. C. R. Schulze. Elec W 84:1247-51 D 13 '24
Effect of unbalanced voltages on the operation of induction motors. O. C. Schoenfeld. Elec J 22:30-3 Ja '25
Effects of time and frequency on insulation test of transformers. V. M. Montsinger. il diags Am Inst E E J 43:145-55 F '24; Discussion. 43:1186-7 D '24
Eine einfache methode zur berechnung langer hochspannungsleitungen. W: Rung. Elektrotech Zeit 45:1147-8 O 23 '24
Ein einfaches verfahren zur auffindung des spannungsnullpunktes bei drehstrom-sternschaltung. W. Lehmann. Elektrotech Zeit 45:1086-7 O 9 '24; Discussion. 46:636-9 Ap 23 '25
Equivalent single-phase networks for calculating short-circuit currents due to grounds on three-phase star grounded systems. R. A. Shetzline. diags Am Inst E E J 43:1014-20 N '24; Discussion. 44:293-5 Mr '25
Experimental analysis of stability and power limitations. R. D. Evans and R. C. Bergvall. il diags Am Inst E E J 43:329-40 Ap '24; Discussion. 43:859-63 S '24
Finding single-phase short-circuit currents on calculating boards. R. D. Evans. diags Elec W 85:760-5 Ap 11 '25
Fluchtlinientafel zur berechnung des leistungsfaktors. R. Gundel. Elektrotech Zeit 45:534 My 22 '24
Fluchtlinientafel zur berechnung des leistungsfaktors aus wirk- und blindarbeit. W. Groezinger. Elektrotech Zeit 46:663-4 Ap 30 '25
Formula for use in calculating repulsion of coaxial coils. H. B. Dwight. Elec J 22:389-91 Ag '25
Harmonics due to slot openings. C. A. M. Weber and F. W. Lee. diags Am Inst E E J 43:1129-32 D '24
Heaviside's operators in engineering and physics. E. J. Berg. diags J Fr Inst 198:647-702 N '24
Initial and sustained short-circuits in synchronous machines. V. Karapetoff. diags Am Inst E E J 44:855-62; Discussion. 880-6 Ag '25
K-m chart for computing electromagnetic induction between an aerial line and neighboring circuits. R. Mitsuda and K. Kasai. diags Gen Elec R 28:290-7 My '25
Kelvin and the economics of the generation and distribution of electrical energy. G. Semenza. diags Inst E E J 62:882-94 O '24; Abstract. Electrician 92:541 My 2 '24
Maximum output of transmission systems. R. D. Evans and R. C. Bergvall. Elec W 83: 1171-3 Je 7 '24
Modification of polyphase induction motor performance by introduction of e.m.f. in secondary. K. L. Hansen. diag Am Inst E E J 42:1321-4 D '23
Neuere anwendungen der nomographie. D. Wehage. Elektrotech Zeit 45:1342-6 D 4 '24
Operation of A. C. generating equipment. V. E. Johnson. Power Pl Eng 28:142-4, 183-6 Ja 15-F 1 '24
Overloads and short-time ratings. R. O. Kapp. Elec R (Lond) 93:644-6 N 2 '23
Polar oscillograms; their application in electrical work—the polar oscillograph. A. G. Beliavsky. diags Electrician 92:38 Ja 11 '24
Power limitations of transmission systems. R. D. Evans and H. K. Sels. Am Inst E E J 43:45-51 Ja '24; Discussion. 43:868-70, 871-2, 877 S '24
Predetermination of the performance of induction motors. D. B. Hoseason. Inst E E J 63:280-6 Mr '25
Predicting central station demand and output. F. C. Ralston. Am Inst E E J 44:38-44 Ja '25
Pulling into step of a synchronous induction motor. H. Cotton. diags Inst E E J 63:211-30 [bibliog. p. 229-30] F '25; Discussion. 63: 609-13 Je '25
Querschnittsverstärkung durch zusatzblindleistung. H. Vogt. Elektrotech Zeit 45:581-3 Je 5 '24
Revised tables of phase angle correction factors for use in power measurements. C. T. Weller. Gen Elec R 28:202-6 Mr '25
Rotary converter transformers; design influenced by necessity of providing reactance. G. Berg. il diags Electrician 91:538-41 N 16 '23
Rotating magnetic field theory of a-c. motors. K. L. Hansen. Am Inst E E J 44:170-8 F '25
Self-excited synchronous motors. J. K. Kostko. bibliog diags Am Inst E E J 44:604-12 Je '25; Discussion. 44:897-902 Ag '25
Shape of pole-shoe required to produce a sinusoidal distribution of air-gap flux density. B. Hague. diags Inst E E J 62:921-9 N '24
Short-circuit calculating board. L. G. Smith. il diag Elec W 84:308-11 Ag 16 '24
Short-circuit calculating board. E. R. Stauffacher. il Elec W 86:223-4 Ag 1 '25
Short-circuit calculations. R. Rader. diags Elec W 84:261-2 Ag 9 '24
Short-circuit currents of synchronous machines. R. F. Franklin. bibliog diags Am Inst E E J 44:863-72; Discussion. 880-6 Ag '25
Single-phase induction motor. L. M. Perkins. Am Inst E E J 44:499-508; Discussion. 522-3 My '25
Single-phase short-circuit calculations. W. W. Lewis. diags Gen Elec R 28:479-90 Jl '25
Single straight conductor as a new fundamental. C. Hering. J Fr Inst 199:235-46 F '25; Abstract. Am Inst E E J 44:346 Ap '25
Skin effect in slot wound conductors. A. Press. Electrician 92:4-5 Ja 4 '24; Discussion. 92:73-4, 261, 356, 487 Ja 18, F 29, Mr 21, Ap 18 '24
Some theoretical considerations of power transmission. C. L. Fortescue and C. F. Wagner. Am Inst E E J 43:106-13 F '24; Discussion. 43:864-5, 881, 983-4 S-O '24
Der spannungsabfall in wechselstromkreisen mit wirkwiderständen und blindwiderständen. R. Edler. bibliog Elektrotech Zeit 46: 1109-14 Jl 23 '25
Speedy calculator for a.c. currents. R. L. Frisby. il Elec W 84:222 Ag 2 '24
Straight-line graph for computing tensions in line conductors. E. S. Thayer. diags Elec W 83:135-6 Ja 19 '24
Study of resonant circuits. L. Fleischmann. diag Elec W 82:430-1 Mr 1 '24
Superpower transmission; economies and limitations of the transmission system of extraordinary length. P. H. Thomas. Am Inst E E J 43:3-17 Ja '24; Discussion. 43:876-7, 880-1, 980-1 S-O '24
Synchronous motor operation; analysis of the phenomenon of pulling into step. H. Cotton. Electrician 92:220-1+ F 22 '24
Tables for use in making voltage changes on a.c. motors. A. C. Roe. il Ind Eng 82:131-7 Mr '24
Temperature and pressure correction chart for the sphere gap. R. H. Marvin. Am Inst E E J 43:34-5 Ja '24; Discussion. C. T. Weller. 43:922 O '24
Theory of the generation of alternating currents by means of triodes. N. Shuttleworth. diags Inst E E J 61:1121-33 O '23

ELECTRIC engineering—Tables, calculations, etc.—*Continued*
Thermal time constants of dynamo-electric machines. A. E. Kennelly. Am Inst E E J 44:142-9 F '25; Discussion. 44:649-56 Je '25
Transmission line problem. H. M. Lacey. diag Elec R (Lond) 94:284-5 F 22 '24
Transmission-line sag and span curves. E. G. Allen. Elec W 83:781-2 Ap 19 '24
Transmission line stability; analytic deduction of the condition for stable operation for transmission lines. C. L. Fortescue. Am Inst E E J 43:373-6 Ap '24
Transmission problems. A. M. Taylor. diags Electrician 92:128-31 F 1 '24; Same cond. Elec R (Lond) 94:432-3, 470-2 Mr 14-21 '24
Über die berechnung von stahlaluminiumleitungen. O. Strand. Elektrotech Zeit 45:654-7 Je 19 '24; Abstract. Elec W 84:326 Ag 16 '24
Vector treatment of long transmission lines. S. Holmes. bibliog Inst E E J 62:471-6 My '24
Verbesserter rechenschieber zur raschen berechnung und veranschlagung elektrischer leitungen. E. Besser. il diags Elektrotech Zeit 46:1511-12 O 1 '25
Voltage-drop curves for 4,600-volt lines. H. P. Seelye. Elec W 83:833-5 Ap 26 '24
Wave-form analysis on rectified circuits. L. B. W. Jolley. diags Inst E E J 63:588-92 Je '25

See also Electric distribution—Tables, calculations, etc.; Electric lines—Tables, calculations, etc.; Electric measurement; Electric motors, Alternating current—Tables, calculations, etc.; Electric wiring—Tables, calculations, etc.; Electricity—Tables, calculations, etc.; Slide rule

Terminology

Kilowatt, kilovoltampere, blindkilowatt, blindkilovoltampere, kilosin, kilocos. F. Emde. Elektrotech Zeit 45:1053-4 O 2 '24
Need for simplified power-factor terminology. Elec W 85:459-60, 668 F 28, Mr 28 '25

See also Electric symbols

ELECTRIC engineers
Electrical engineer in the merchant marine. G. A. Pierce. il Am Inst E E J 44:747-52 Jl '25
Electricity supply engineers and their training. J. W. Thomas. Elec R (Lond) 96:312-13 F 20 '25
In memory of six workers in the electrical industry. J. S. Highfield. Elec R (Lond) 96: 564-5 Ap 10 '25
Training and the status of the electrical engineer. C. T. Allan. Inst E E J 62:19-22 D '23
Training of engineers for the electricity supply industry. J. W. Thomas. Elec R (Lond) 94:8-10 Ja 4 '24
Vocation of the electrical engineer. T. B. Johnson. Elec R (Lond) 95:797 N 21 '24
Which kind of engineering work? J. M. Hipple and others. Sibley J 38:36-41+ F '24

ELECTRIC equipment
Building Wilson dam at Muscle Shoals on the Tennessee. il Eng N 94:727-9 Ap 30 '25
Copper and electricity. N. R. Stansel. il Gen Elec R 27:214-26 Ap '24
Directions for the study of non-ignitable and self-extinguishing boards and mouldings for electrical purposes. diags Inst E E J 63: 51-9 D '24
Dollar value of wasted kilowatts. E. S. Lincoln. Ind Management 69:7-10 Ja '25
Electrical layout of new Masonic temple, Davenport, Iowa. H. M. Heysinger. Am Arch 127:294 Mr 25 '25
Electrical mechanical equipment. J. G. Turnbull. il Am Arch 125:123-6 Ja 30 '24
Electrical power-equipment development. il Power 59:17-19 Ja 1 '24
Electrical power equipment number. Power Pl Eng 29:1-95 Ja 1 '25
Electrification of buildings. R. E. Argersinger. il Am Arch 125:107-12 Ja 30 '24
Electrification of Taymouth castle. il Elec R (Lond) 94:99-100 Ja 18 '24
Expense of home-made equipment. Elec W 84: 392-3 Ag 23 '24
Larger units of electrical equipment appear. H. W. Cope. il Iron Tr R 76:29-30 Ja 1 '25
Modern laundry electrification. F. Bates. il Elec W 86:226-7 Ag 1 '25
Recent electrical equipment; a summary of developments during 1923. A. J. Whitcomb. il Ind Eng 82:69-80+ F '24
Synthetic resin mouldings. G. M. Carpenter. Elec R (Lond) 96:211-13 F 6 '25
Verwendung von aluminium in der elektrotechnik. W. Wunder. il Elektrotech Zeit (special no.) 45:9-10 Ag 28 '24
Vorkommen, gewinnung, eigenschaften und verwendung des aluminiums in der elektrotechnik. W. Wunder. il diags Elektrotech Zeit 45:1109-15 O 16 '24

See also Apartment houses—Electric equipment; Automobiles—Electric equipment; Cement plants—Electric equipment; Coal piers—Electric equipment; Cotton mills—Electric equipment; Cranes, derricks, etc.—Electric equipment; Electric apparatus and appliances; Electric control; Electric distribution; Electric driving; Electric fittings; Electric lighting; Electric plants—Equipment; Electric plants (central stations)—Equipment; Electric power; Electric railroads—Equipment and supplies; Electric transmission; Electricity in freight handling; Electricity in mining; Electricity on the farm; Factories—Electric equipment; Foundries—Electric equipment; Hotels—Electric equipment; Ice plants—Electric equipment; Motor buses—Electric equipment; Moving picture theaters—Electric equipment; Newspaper offices—Electric equipment; Paper mills—Electric equipment; Printing offices—Electric equipment; Railroads—Electric equipment; Rolling mills—Electric equipment; Sawmills—Electric equipment; Ships—Electric equipment; Steel works—Electric equipment; Sugar factories—Electric equipment; Theaters—Electric equipment; *also* General electric company

Prices

Trend in prices of electrical materials since 1914. Elec W 83:356-8 F 16 '24

Protection

Preventing breakdowns of electrical equipment. C. R. Chace. il Power 61:529-32 Ap 7 '25

Standards

New Electric power club standards. A. H. Timmerman. Elec W 85:1287-8 Je 13 '25
Standardize equipment but not engineering. M. M. Samuels. Elec W 83:720-1 Ap 12 '24

ELECTRIC erasers. See Erasers, Electric

ELECTRIC fans
Electric fans for 1925. il Electrician 94:571-3 My 15 '25
Fan season; manufacturers' designs for 1924 trade. il Electrician 92:604-5 My 16 '24
Sales of electric fans, 1916-1923. Survey of Cur Business 33:12 My '24

Testing

Testing ceiling fans. R. O. Kapp. Elec R (Lond) 94:86-7 Ja 18 '24

ELECTRIC fans, Ventilating
Design of cooling fans for electrical machines. W. G. White. Elec R (Lond) 96: 928 Je 12 '25
Ventilating the new Liberty tunnel in Pittsburgh; electric equipment of power house. A. McGonagle. il diag plans Elec J 22: 102-8 Mr '25

ELECTRIC fireless cookers. See Fireless cookers, Electric

ELECTRIC fires
Bekämpfung von bränden in elektrischen anlagen und in deren nähe. Anklam. Elektrotech Zeit 46:1508-9 O 1 '25
Brände infolge mangelhafter elektrischer anlagen. C. D. Beenken. Elektrotech Zeit 46: 1266-9 Ag 20 '25
Electric wiring and fire damage. il Am Arch 125:69-73 Ja 16 '24

ELECTRIC fires—*Continued*
Fire and injury hazards of electrical origin. J: A. Hoeveler. il Nat Safety N 11:7-9 Je '25
Fire-fighting equipment in electric plants; report of Pacific coast electrical association. J Elec 54:498-501 Je 1 '25
Fire hazards of static electricity. R. M. Clark. Ind & Eng Chem 17:1127-9 N '25
Fire losses during 1923; first increase since 1918. R. Trautschold. Elec W 85:923-4 My 2 '25
Fire peril in imperfect grounding. H. W. Spang. Safety Eng 48:159-60 O '24

ELECTRIC fittings
Ein beachtenswerter fortschritt auf dem gebiete der zweiteiligen schraubstöpsel. O: Ely. il Elektrotech Zeit 45:593 Je 5 '24
Berührungsschutz an glühlampenschraubfassungen. diags Elektrotech Zeit 46:961-3 Je 25 '25
Erie malleable iron co. Kondu-box. il Power 62:702 N 3 '25
Über die ausbildung der kontakte und anschlüsse bei elektrischen heizvorrichtungen. il diags Elektrotech Zeit 46:1004-6 Jl 2 '25
Value of an outlet to the electrical industry. E. W. Day. J Elec 53:277-82 O 15 '24
Zweckmässigkeit und schönheit in der hausinstallation. A. M. Schmidt. il diags Elektrotech Zeit (special no.) 46:19-20 Mr 1 '25

See also Electric apparatus and appliances; Electric conduits; Electric light fixtures

Standards
Non-standard terminals costly. Soc Auto Eng J 16:148 F '25

Terminology
Finding a name for "convenience outlet". C. H. Zillessen. Elec W 82:1280-1 D 22 '23

Testing
Some experiments on contact resistance and heating of plunger type lampholders. L. G. H. Sarsfield. diag Elec R (Lond) 96:247-9 F 13 '25

ELECTRIC flashlights
Six hundred dollars a kilowatt-hour. Am Inst E E J 44:184-5 F '25

ELECTRIC furnaces
Accuracy in high-temperature testing of materials. L. W. Spring and J. Kanter. il diags Power 62:325-9 S 1 '25
Electric furnace for softening point determinations. W. L. Pendergast. diags Am Cer Soc J 8:319-25 My '25
Electric furnace Rennerfeldt. H: Illies. diags Blast F & Steel Pl 13:70-2 F '25
Electric graphite resistance furnace. H. Bryan, A. L. Mehring, and W. H. Ross. il diag Ind & Eng Chem 16:821-2 Ag '24
Electric heat as used in modern industry. C. L. Wilson. il chart Ind Management 70:277-82 N '25
Electromagnetic forces available in electric furnaces. C. Hering. Am Electrochem Soc Trans v 47 (preprint 7):93-7 Ap '25; Same. Brass W 21:177-8 My '25
Das elektrische schmelzen von quarz nach dem vakuum-kompressions-verfahren. R. Honold. il Zeit Ver Deutsch Ing 69:884-6 Je 27 '25
L'emploi du four électrique pour la préparation des ciments de laitier. Génie Civil 86: 194 F 21 '25
Les fours électriques industriels et les fabrications électrothermiques. J. G. Escard. 2d ed. 674p Dunod, Paris '24
Granular carbon resistor furnaces. M. M. Austin. diags Ind & Eng Chem 16:156-7 F '24
Industrial electric heat. C. P. Yoder. Elec W 86:503-6, 559-61 S 12-19 '25
Load building possibilities of industrial heating. C. L. Ipsen. il Am Inst E E J 44:458-62 My '25; Abstract. Iron Tr R 76:1008-10 Ap 16 '25
Metallic resistor in industrial heating furnaces. E. F. Collins. il diag plan Chem & Met Eng 30:936-41, 981-5 Je 16-23 '24
Mounting of diamonds by the casting method. H. Miller. il Gen Elec R 26:827-9 D '23; Same. Metal Ind 22:311-12 Ag '24; Same cond. Iron Tr R 74:286-7 Ja 24 '24
New type of electrical resistance furnace. Brass W 21:285 Ag '25
Resistor furnace operates at 2,350 deg. F. il Elec W 82:1278 D 22 '23

See also Electric heaters; Electrometallurgy

Control
Closer electrode control. H. R. Crago and J. A. Seede. il Iron Age 115:763-4 Mr 12 '25
Control of electric furnace current. Elec R (Lond) 94:691-2 My 2 '24
Electric furnace temperature regulator. E. N. Bunting. diag Am Cer Soc J 6:1209-13 D '23
General Electric three-electrode panel. il Am Mach 62:367 F 26 '25

Cost of operation
Refining metals electrically. L. J. Barton. Foundry 53:732-4, 796-8 S 15-O 1 '25

Electrodes
Repairing broken electrodes. Elec R (Lond) 93:765 N 23 '23
Soderberg amorphous-carbon electrode. diag Engineering 120:543 O 30 '25
Soderberg self-baking electrodes. F. Hodson. il Iron Age 112:1585-6 D 13 '23
Die verwendung der Söderbergschen dauerelektrode an elektrostahlöfen. W. Eilender and L. Lyche. Stahl & Eisen 44:364-8 Ap 3 '24

Refractories
Bonding high-temperature refractories. R. C. Gosreau. Chem & Met Eng 31:696-8 N 3 '24
Electric brass furnace refractory situation. H. W. Gillett and E. L. Mack. il diags Am Cer Soc J 7:288-99 Ap '24; Discussion. (Bul) 8:223-5 My '25
Electric furnace refractories; abstracts. Chem & Met Eng 31:586-7 O 13 '24
Fluorine in the deoxidizing slag, and its influence on refractories in basic electric furnace practice. F. T. Sisco. Am Electrochem Soc Trans v 46 (preprint 19):257-72 O '24; Same cond. Iron Tr R 75:1305-7 N 13 '24; Abstract. Foundry 52:962 D 15 '24
How to get the most out of electric furnace refractories. R. C. Gosrow. Chem & Met Eng 29:1181-5 D 31 '23
Refining metals electrically. L. J. Barton. diags Foundry 52:606-10 Ag 1 '24
Refractories for electric furnaces. Chem & Met Eng 30:700-1 My 5 '24
Refractories for electric furnaces. 2d ed. 94p Am. electrochem. soc., New York '24
Refractories for steel and brass furnaces. Iron Age 113:596-7 F 21 '24

Safety devices and measures
Mercury poisoning from electric furnaces. L: Jordan and W. P. Barrows. Ind & Eng Chem 16:898-901 S '24

ELECTRIC furnaces, Annealing
Annealing castings electrically. il Iron Tr R 75:1225-7 N 6 '24
Annealing of brass tubing in the electric furnace. R. M. Keeney. il Am Electrochem Soc Trans v 46 (preprint 9):137-47 O '24; Same. Iron Tr R 75:1370-2 N 20 '24
Annealing process work in electric ovens. Elec W 84:797 O 11 '24
Electric annealing of steel. H. Fulwider. il Iron Age 116:342-4 Ag 6 '25
Electric copper and brass annealing. C. L. Ipsen. il Metal Ind 23:238 Je '25
Electric furnace annealing. A. I. Nutting. il Iron Age 114:377 Ag 14 '24
Electric heat in Omaha steel works. F. Bates. il Elec W 86:417-18 Ag 29 '25
Elektrische blankglühöfen. W. Rohn. il diags Zeit Ver Deutsch Ing 68:1101-5 O 18 '24
Elektrischer blankglühofen. A. Pomp. diags Stahl & Eisen 45:548-9 Ap 9 '25

ELECTRIC furnaces, Brass melting
Brass furnaces offer $15,000,000 load. Elec W 84:1008 N 8 '24
Case of electric brass melting. R. June. il Iron Age 114:371-2 Ag 14 '24
Development of an electric brass furnace. H. W. Gillett. il Sibley J 37:157-60+ O '23
Electric brass furnace refractory situation. H. W. Gillett and E. L. Mack. il diags Am Cer Soc J 7:288-99 Ap '24; Discussion. (Bul) 8: 223-5 My '25
Electric brass melting reduces costs. H. C. Thuerk. Elec W 85:357-8 F 14 '25
Electric furnace a time saver in railway shop. il Elec Ry J 66:249 Ag 15 '25
Electric furnace practice in the bronze foundry. F. C. Heath. Metal Ind 23:60 F '25; Same. Brass W 21:335-6 O '25; Same cond. Foundry 52:980 D 15 '24; Same. Iron Tr R 76: 288 Ja 22 '25; Same cond. Elec W 85:722 Ap 4 '25
Induction furnace produces superior brass. G: C. Heisterman. Elec W 85:617 Mr 21 '25
Induction furnaces in large brass mill. il diag Elec W 86:801 O 17 '25
Modern induction furnace brass melting practice. G: F. Hughes and P. L. Green. il Brass W 21:205-7 Je '25
New high frequency induction furnaces. D. Willcox. il diags Metal Ind 23:401-2 O '25
Present tendencies in electric brass-furnace practice. H. W. Gillett and E. L. Mack. bibliog U S Bur Mines Rep of Invest 2597: 1-10 Ap '24 (typew); Same. Brass W 20: 163-6; Bibliography. 166 My '24
Radiant dome electric furnace. T. F. Baily. il Metal Ind 22:32 Ja '24; Same. Brass W 20:31 Ja '24; Same. Foundry 52:32-3 Ja 1 '24
Remodeled Bailey furnace. il Brass W 21:91 Mr '25; Same. Iron Age 115:684 Mr 5 '25; Same. Metal Ind 23:103 Mr '25
Trial operation sells 500-kva. furnace installation. il Elec W 85:726 Ap 4 '25

See also Electric furnaces, Non-ferrous melting

ELECTRIC furnaces, Enameling
Armstrong continuous enameling furnace. il Chem & Met Eng 31:274-5 Ag 18 '24; Iron Age 114:389 Ag 14 '24
Electrical oven bakes enamel. E: W. Roeser. il Foundry 51:632-4 Ag 1 '23; Same. Iron Tr R 73:1732-3 D 27 '23
Electricity versus oil for heating iron enameling furnaces. H. A. Mulvaney. il J Elec 52:487-90 Je 15 '24
Eliminating cloudy finish by electric baking. F. Arnold. Elec W 86:172-3 Jl 25 '25
Emergency conveyor drive prevents interruption. diag Elec W 85:1134 My 30 '25
Enameling cast-iron ware in electric furnaces. H. E. Kennedy. il Chem & Met Eng 30: 219-21 F 11 '24
Vitreous enameling. C. L. Ipsen. il Metal Ind 23:229 Je '25

ELECTRIC furnaces, Foundry
Develop new furnace for steel and iron foundry service. il Foundry 53:449-50 Je 1 '25; Same. Iron Tr R 77:69+ Jl 9 '25
Electric furnace in the foundry. H. Etchells. Elec R (Lond) 96:515-16 Mr 27 '25
Electrification of the foundry. L. P. Egan. il Blast F & Steel Pl 11:587-604 D '23

See also Electric furnaces, Brass melting; Electric furnaces, Iron founding

Charging
Mechanical handling at River Rouge; power house fuel handling and the electric furnace building. M: W. Potts. il Ind Management 68:91-2 Ag '24

ELECTRIC furnaces, Heat treating
Advances in electrical appliances described. Iron Tr R 77:783-4 S 24 '25
Competitive tests of gas and electric furnaces. Elec W 84:1261 D 13 '24
Electric furnace displaces three coal-fired units. il Elec W 82:1225-6 D 15 '23
Electric furnace for continuous hardening and tempering wire. R. H. MacGillivray. il Am Electrochem Soc Trans v 46 (preprint 10): 149-51 O '24; Same. Iron Tr R 75:1373-4 N 20 '24; Same cond. Elec W 84:1210-11 D 6 '24
Electric furnace proves best. J: Watson. il Elec W 83:376 F 23 '24
Electric furnaces. C: H. Fulton. H. M. Henton and J. H. Knapp. il Iron Tr R 75:673-5, 807-9, 939-41, 1087-9 S 11, 25, O 9, 23 '24
Electric furnaces for the heat treatment of razor blades. il diag Engineering 117:713-14 My 30 '24
Electric heat treating. A. M. Perry. Elec W 85:145-7 Ja 17 '25
Electric heat treating applications. E. A. Hurme. Ind Eng 83:469-70; Discussion. 505 O '25
Electric heat-treating costs. il Elec W 84: 1060-1 N 15 '24
Gas man analyzes some recent electrical propaganda; compare time cost of heat treating with gas and electricity. R. J. Phelon. il Gas Age 54:729-30+ N 22 '24
Industrial electric furnace with perforated muffle plates. il Ry Mech Eng 98:708-9 N '24
Metco electric furnaces for heat treating. il Am Mach 60:228 F 7 '24
Modernizes heat treating shop; Gleason works, Rochester, N.Y. E. F. Ross. il plan Iron Tr R 74:541-5 F 21 '24
Replacing oil with electricity. W. J. Walsh. il Iron Age 116:145-6 Jl 16 '25
Ring gear among first to receive individual heat treatment. il Automotive Ind 51:974 D 4 '24
Treating high-speed tools. il Iron Age 113: 288 Ja 24 '24
Using electric heating furnaces. A. E. White. Iron Tr R 75:1229-31 N 6 '24

See also Electric furnaces, Annealing; Electric furnaces, Steel making

ELECTRIC furnaces, High frequency
Application of static condensers to high frequency furnaces. R. E. Marbury. il diags Elec J 21:421-2 S '24
High-frequency induction furnace. D. F. Campbell. diag Engineering 120:351-2 S 18 '25; Same cond. Elec R (Lond) 97:476-7 S 18 '25
High frequency induction furnace plant for the manufacture of special alloys. P. H. Brace. bibliog il diags Am Inst E E J 44: 992-1001 S '25
High-frequency inductive heating. D. Willcox. diag Iron Age 114:1617 D 18 '24
High-frequency inductive heating. D. Willcox. il diag Chem & Met Eng 32:212-14 F 2 '25; Same. Electrician 94:151+ F 6 '25; Same. Foundry 53:120-1 F 1 '25; Same. Gen Elec R 28:121-4 F '25; Same. Iron Tr R 76:567-8 F 26 '25; Same. Metal Ind 23:58-9 F '25; Same. Elektrotech Zeit 46:225-6 F 12 '25
Laboratory high frequency vacuum furnace. J. R. Cain and A. A. Peterson. Am Electrochem Soc Trans v 48 (preprint 11):105-12 S '25
Melting metal at 2900° C. (5252° F.). D. Willcox. il diag Metal Ind 22:290-1 Jl '24
Melting metal without fire in a radio furnace. S. R. Winters. il Radio N 5:1066+ F '24
New high frequency induction furnaces. D. Willcox. il diags Metal Ind 23:401-2 O '25

Safety devices and measures
Safety in high-frequency induction furnaces. diag Chem & Met Eng 29:933 N 19 '23

ELECTRIC furnaces, Iron founding
Melts iron in twin furnaces. A. W. Bryant. il Foundry 52:556-9 Jl 15 '24; Same. Iron Tr R 75:226-8 Jl 24 '24
Multiple electric melting. il Iron Age 112:1441-2 N 29 '23
Multiple system of electric melting. E. A. Hanff. il diags Iron Age 114:999-1003 O 16 '24

See also Iron founding, Electric

ELECTRIC furnaces, Iron smelting
New Norwegian electric pig iron furnace. F. Hodson and M. Sem. Iron Age 113:1585 My 29 '24; Same cond. J Elec 53:92-3 Ag 1 '24

See also Iron metallurgy—Electrometallurgy

ELECTRIC furnaces, Metallurgical
Bilanz eines elektro-lichtbogenofens. O. v. Keil and K. Hess. diags Stahl & Eisen 45: 1134-46 Jl 9 '25
Continuous electrothermic furnaces for complex ores. T. M. Bains, jr. il Eng & Min J 119:244-6 F 7 '25
Electric furnace development. F. Hodson. il Blast F & Steel Pl 12:314-18 Jl '24
Electric furnace for making ferrovanadium. A. P. Child. il Iron Age 115:696 Mr 5 '25
Electric furnace progress. W. S. Gifford. il diags Electrician 91:603-5 N 30 '23
Electric furnaces and electric heat applications discussed by A.I.S.E.E. Elec W 84:679-81 S 27 '24
Elektrisch geheizter vakuumofen für das metallurgische laboratorium. Neufeld. Zeit Ver Deutsch Ing 69:806 Je 13 '25; Same (Laboratory electric vacuum furnace). Engineer 140:sup106 Jl 31 '25
Experiments with a small double current electrolytic furnace. H: K. McIntyre and G: C. Cox. Am Electrochem Soc Trans v 48 (preprint 18):167-73 S '25
High-frequency inductive heating. D. Willcox. il diag Chem & Met Eng 32:212-14 F 2 '25; Same. Electrician 94:151+ F 6 '25; Same. Foundry 53:120-1 F 1 '25; Same. Gen Elec R 28:121-4 F '25; Same. Iron Tr R 76: 567-8 F 26 '25; Same. Metal Ind 23:58-9 F '25
L'industrie électrothermique des fontes, fers, aciers et des ferro-alliages. Mathieu and Sutter. Génie Civil 87:287-91 O 3 '25
Laboratory electric furnaces. J: L. Haughton. diags Engineer 139:sup66-9, sup82-5 My 29-Je 26 '25
Manufacture of ferro-vanadium by electric furnace. E. K. Scott. il Engineer 136:636-7 D 14 '23
Some implements used for manipulating electric furnaces. Elec R (Lond) 94:251 F 15 '24

See also Electric furnaces, Steel making; Electrometallurgy

ELECTRIC furnaces, Non-ferrous melting
Improved electric melting furnace for alloys; Baily radiant dome type. T. F. Baily. il Chem & Met Eng 29:1062-3 D 10 '23; Same. Iron Age 112:1453-4 N 29 '23
Non-ferrous foundry metallurgy. Iron Age 116:1115 O 22 '25
Use of the induction furnace for melting non-ferrous metals. G. E. Taylor. diags Elec R (Lond) 97:285-7, 327-9 Ag 21-28 '25

See also Electric furnaces, Brass melting

ELECTRIC furnaces, Steel making
Addition to electric steel furnace capacity in 1923. Iron Age 113:137 Ja 3 '24
Additions to electric steel furnace capacity, 1924. Iron Age 115:88 Ja 1 '25
Betrachtungen über die gaswirtschaft im elektrohochofenbetriebe. R. Durrer. diag Stahl & Eisen 44:748-50 Je 26 '24
Duplex furnace operation in steel company. il Elec W 86:854 O 24 '25
Eaton electric hardening furnace. il Am Mach 61:671 O 23 '24
Electric furnace phenomena. E: T. Moore. Iron Age 113:266-7+ Ja 17 '24
Electric furnace replaces converter. F. E. Hinners. il Elec W 86:274 Ag 8 '25
Electric melting furnaces. J. A. Seede. Ind Eng 82:471-2 O '24
Electric melting furnaces; abstracts. J. A. Seede. Ind Eng 83:470 O '25; Blast F & Steel Pl 13-411 O '25
Horizontal ring induction furnaces. J. A. Seede. il diag Iron Age 114:1281-2 N 13 '24
Melting 9 tons in 3-ton furnace. L. J. Barton. il Iron Tr R 74:1493-5 Je 5 '24; Iron Age 113:1724-6 Je 12 '24
Moore 'lectromelt furnace produces quality steel. C. N. Dawes. il Elec W 85:1404-5 Je 27 '25
Operating data for an electrical steel-melting furnace. F. L. Landon. il J Elec 53:434-6 D 15 '24
Refining metals electrically. L. J. Barton. il Foundry 52:427-32, 460-2, 506-9, 542-7, 606-10, 640-2+, 671-4, 726-9; 53:732-4, 796-8 Je 1-S 15 '24, S 15-O 1 '25
Six-ton induction furnace installation. M. Unger. il diags Gen Elec R 27:498-503 Ag '24
Steel-melting furnaces as a steady load. Elec W 84:1166 N 29 '24
Unbalance in furnace transformers. E. C. Starr. diags Elec W 84:320-2 Ag 16 '24
Die verwendung der Söderbergschen dauerelektrode an elektrostahlöfen. W. Eilender and L. Lyche. Stahl & Eisen 44:364-8 Ap 3 '24

See also Electric furnaces, Heat treating

ELECTRIC fuses
Aeroflex and Zenal fusible cut-outs. il diag Elec R (Lond) 96:597-8 Ap 10 '25
Care in choosing and maintaining fuse and switches may prevent many accidents. J. F. MacWilliams. il diags Coal Age 26:468-71 O 2 '24
Carton's uses as direction sheet; packaging electric fuses. Ptr Ink 128:120+ Ag 21 '24
Designating fuse capacities by different colors. A. W. Oppmann. Ind Eng 83:40 Ja '25
Disconnecting switches and primary cut-outs for overhead distribution. H. J. Crabbs. il diags Elec J 22:305-8 Je '25
Distribution line practise of the San Joaquin light and power corporation. L. J. Moore and H. H. Minor. il diags Am Inst E E J 44:1203-4 N '25
Experience with accessible service fuses. P. H. Bartlett. Elec W 86:747-8 O 10 '25
Fundamentals of meter service. R. C. Fryer and L. J. Gregory. il diags Elec W 83:1003-6 My 17 '24; Discussion. G. E. Palmer. 83:1225-7 Je 14 '24
Fuse color scheme that prevents misuse of fuses. C: R. Hepner. Ind Eng 83:228-9+ My '25
Horn gap used as fuse on 11,500-volt line. E: N. Horr. Elec W 83:384-5 F 23 '24
Kleinautomaten an stelle von schmelzstöpseln. il Elektrotech Zeit 45:691-2 Je 26 '24
New safety fuse. il Electrician 92:15 Ja 4 '24
Potential transformer protection scheme using resistors. J Elec 54:16-17 Ja 1 '25
Protective resistances and fuses for potential transformers. C. A. Wilson. Elec R (Lond) 94:912 Je 6 '24; Discussion. 94:1027-8 Je 20 '24
Renewal of fuses made safer on transformer circuits. O. E. Kenworthy. diags Coal Age 25:439 Mr 20 '24
Report of Pacific coast electrical association sub-committee on line switches, fuses and protective devices. il diag J Elec 52:445-7 Je 1 '24
Silber-kupfer-legierungen für schmelzsicherungen (streifensicherungen). R. Edler. Elektrotech Zeit 45:1397-8 D 18 '24
Size and type of fuses for transformers. Elec W 85:881 Ap 25 '25
Some reasons why main fuses should be sealed. B: W. Clark. il J Elec 53:98-9 Ag 1 '24
Union renewable fuses simplified in construction. il Power 62:264 Ag 18 '25

Testing
Low-tension tests on high-tension fuses and resistors. P. M. Hess. il diags Elec W 84: 107-9 Jl 19 '24
Potential transformer fuse tests. P. M. Hess. il diags Elec W 83:467-71 Mr 8 '24

ELECTRIC garages. See Garages, Electric

ELECTRIC generators
Direct- and alternating-current welding generator. il Mach 31:828 Je '25

ELECTRIC generators—*Continued*
Diseases and cures of dynamos and motors; chart showing various difficulties encountered and methods of overcoming them. W: Voss. Metal Ind 23:16-17 Ja '25
Economical loading of turbo-generator units. M. K. Drewry. Power Pl Eng 28:887-8 S 1 '24
Der einfluss des stromreglers auf das abklingen des kurzschlussstromes von turbogeneratoren. R. Pohl. il Elektrotech Zeit 45: 805-6 Jl 24 '24
Fortschritte im bau von turbodynamos grosser leistung. E. Roth. diags Elektrotech Zeit 45:269-70 Mr 27 '24
Generator and magneto combined. il diags Bus Transportation 3:272 Je '24
Generators and motors. D: P. Moreton, A. C. Roe and C. H. Dunlap. 229p American technical soc., Chicago '24
Heating in generators. E: W. Berry. Radio N 5:1415+ Ap '24
Keeping generators in service when trouble occurs on the system. C. M. King. Power 59:296, 557 F 19, Ap 8 '24
Kurzschlusssichere statorwicklung von turbogeneratoren; abstract. il diags Elektrotech Zeit 45:13 Ja 3 '24
Operating steam-turbine generators. C. C. Brown. Power 60:504 S 23 '24
Production of e.m.f.'s in a generator. diags Power Pl Eng 29:4-7 Ja 1 '25
Rodney Hunt niteload unit. il Textile World 68:2177 O 10 '25
Successful operation of turbo-generator as a synchronous condenser. N. D. Holmes. Elec W 82:1070-1 N 24 '23
Turbo-generators at Wembley. M. Walker. il diags Electrician 92:762-5; 93:432-5 Je 20, O 17 '24
Über die nullpunktserdung elektrischer generatoren. H. Schult. Elektrotech Zeit 46:214-17 F 12 '25
Wind-driven generators. W. Stirling. diags Inst E E J 61:1096-9 O '23
Zur analyse der zusatzverluste, insbesondere von turbogeneratoren. R. Pohl. Elektrotech Zeit 46:1182-5 Ag 6 '25

See also Armatures; Commutators; Electric machinery; Electric motor generators; Electric plants; Hydroelectric plants; Radio generators

Cleaning

Cleaning generators. N. L. Rea. Power 61:132-3 Ja 27 '25

Cooling

Air coolers for turbo-generators. F. W. Rabe. Power 60:1024 D 23 '24
Air currents dissipate generator losses. A. L. Greene. il diag Power Pl Eng 28:294-6 Mr 1 '24
Automatic cooler controls generator air temperature to 1 per cent. il diag Elec W 84: 1108-9 N 22 '24
Betriebsergebnisse mit luftkühlern für turbodynamos. W. Bedbur and E. Stach. il diags Zeit Ver Deutsch Ing 68:155-7 F 16 '24
Cooling of electric machines. G: E. Luke. bibliog diags Am Inst E E J 42:1278-87 D '23; Abstract. Elec W 82:70-2 Jl 14 '23; Discussion. Am Inst E E J 42:1287-8 D '23
Good ventilation improves generator operation. C. C. Brown. Power Pl Eng 29:802-4 Ag 1 '25
Multiple-radial system of cooling large turbogenerators. D. Bratt. diags Am Inst E E J 43:185-93 Mr '24
Rechnerische erfassung des ringlaufkühlerbetriebes bei turbogeneratoren. G. Kleiner. Elektrotech Zeit 46:491-3 Ap 2 '25
Surface air cooler made with spiral fins of copper ribbon. il Power Pl Eng 29:264 F 15 '25
U-fin air cooler. il Management & Adm 7:99 Ja '24
Über berechnung, konstrucktion und betrieb von luftkühlern für turbogeneratoren. R. Pohl. il diags Elektrotech Zeit 46:441-5 Mr 26 '25; Abstract (Calculation and design of air coolers for turbo-generators). Elec W 85:935 My 2 '25

See also Electric generators, Alternating current—Cooling

Design

Dynamo and motor design; recent developments in electrical machinery. F. Creedy. diags Electrician 93:226-8, 252-3, 312-13 Ag 29-S 5, 19 '24
Leakage flux between parallel pole-cores of circular cross-section. B. Hague. diags Inst E E J 61:1072-8 O '23; Discussion. 62:247-8 Mr '24

Erection

Assembling generator rotors. R. Brown. il Power 59:566-7 Ap 8 '24
Assembling 22,000-kva. waterwheel generator. R. Brown. il Power 60:278-81 Ag 19 '24
Erecting vertical waterwheel generators. N. L. Rea. il diags Power 62:561-4 O 13 '25

Failures

Failure of a 2,000 k.w. turbo-generator at Cedar Rapids, Iowa. il Locomotive 35:34-5 Ap '24
Failure of 20,000-kva. generator. A. M. Beard. Power 58:999 D 18 '23

Lubrication

Right oil for dynamos. J. B. Rathbun. Pet Age 15:62+ Mr 15 '25

Manufacture

Extreme variety versus standardization. J: H. Van Deventer. il Ind Management 67: 36-46 Ja '24
Machining a 37-ft. generator stator frame. E. T. Spidy. il diags Am Mach 59:955-6 D 27 '23
Die tolerierung der dynamobleche. E. Lasswitz. Elektrotech Zeit 45:481-4 My 15 '24

See also Electric generators, Alternating current—Manufacture

Parallel operation

Parallel operation of direct-connected auxiliary generators. H. B. Seeley. diags Elec J 21:387-90 Ag '24; Same. Power Pl Eng 28: 1257-60 D 15 '24

Protection

Extinction of fires in generators by means of carbon dioxide. C: L. Jones. il diag Gen Elec R 27:650-7 O '24
Protection of electric generators. C. R. Chace. diags Power 61:780-1 My 19 '25
Reactance as a means of protection. C: C. Garrard. Electrician 92:478-9 Ap 18 '24
Schutz von turbogeneratoren gegen überspannungen. il diag Elektrotech Zeit 45:sup xxvii My 29 '24

Repair

Rewinding 44-volt generator to give 1,000 volts. D. L. Wayne. Ind Eng 82:208 Ap '24

Starting

Method of starting a turbo-generator. J. B. Petrie. Power Pl Eng 29:482 My 1 '25

Temperature

Determining hot spot temperatures. R. L. Frisby. il Elec W 84:318 Ag 16 '24; Discussion. E. E. Norman. 84:895-6 O 25 '24

See also Electric generators—Cooling

Testing

Testing insulation of generators. R. E. Thompson. diag Power 61:310 F 24 '25

See also Electric generators, Alternating current—Testing; Electric generators, Direct current—Testing

Ventilation

See Electric generators—Cooling

ELECTRIC generators, Alternating current
Alternating current machinery. il diags Power Pl Eng 29:28-30 Ja 1 '25

ELECTRIC generators, Alternating current —*Continued*

Alternator short-circuit currents; the calculation of sudden rushes based on physical phenomena. A. Fraenckel. diags Electrician 92:224-5 F 22 '24

Alternators for operation on a transmission line. N. B. Hill. Inst E E J 63:233-4 F '25

L'amélioration d'anciens groupes turbo-générateurs par le remplacement de leurs turbines à vapeur. il Génie Civil 87:233 S 12 '25

Anordnung zum ausschalten von asynchron- und synchrongeneratoren an eine zugeführte drehstromspannung. E. Wurmbach. Elektrotech Zeit 45:397-8 Ap 24 '24

Brush vertical water wheel alternator. il Electrician 94:629 My 29 '25

Coefficient de déformation des courbes de force électromotrice des alternateurs. Legros. diags Génie Civil 86:234-5 Mr 7 '25

Connecting two alternators to the same waterwheel. N. L. Rea. diags Power 61:417-18 Mr 17 '25

Damping effect of solid rotors. N. B. Hill. diag Electrician 92:511-12 Ap 25 '24

Design of 65,000-kva. generator. R. B. Williamson. il diags Elec W 85:289-93 F 7 '25

Dynamo, its theory, design, and manufacture. C. C. Hawkins. v. 3, Alternators. 6th ed., rev. 572p Pitman '25

Excessive voltage in generators. W. V. Lyon. diags Elec W 84:784-5 O 11 '24

High-frequency alternators. C. M. Laffoon. il Elec J 21:416-20 S '24

Hungarian practice in high speed turbo-alternator design. E. Wilczek. diags Engineering 118:206-7 Ag 8 '24

Hydro-electric generator equipment for Muscle Shoals. R. A. McCarty. il diags Elec J 21:140-2 Ap '24

Hydroelectric giant: Niagara Falls power company, world's largest hydroelectric unit of 70,000 horsepower. il Sci Am 130:164-5 Mr '24

Installing alternator field coils. N. L. Rea. diags Power 62:255 Ag 18 '25

Large alternators. A. B. Field. Engineering 118:565-6 O 17 '24; Abstract. Electrician 93: D 19 '24

Large steam turbine generators. W. J. Foster, E. H. Freiburghouse and M. A. Savage. il Am Inst E E J 43:923-31 O '24; Abstract. Elec R (Lond) 95:637-8 O 24 '24; Discussion. Am Inst E E J 44:397-8 Ap '25

Ljungstrom turbo-generators at St Pancras. il Electrician 93:527 N 7 '24

Method of phasing out a three-phase generator. diag Power 60:851; 61:149 N 25 '24, Ja 27 '25

Methode zur schnellen bestimmung der schadhaften spule bei erdschluss eines vielpoligen wechselstromgenerators. W. Zimmermann. Elektrotech Zeit 46:381-2 Mr 12 '25

Methods for taking data on turbo-generator windings. A. C. Roe. il diags Ind Eng 83: 178-81+ Ap '25

Neuere fortschritte auf dem gebiete der asynchron-generatoren und asynchron-blindleistungsmaschinen. M. Schenkel. diags Elektrotech Zeit (special no.) 45:15-17, 1265-70 Ag 28, N 20 '24

New method for measuring alternator leakage reactance. G. F. Bason. Sibley J 39:352-3 Je '25

Oil circuit breaker investigation as carried on with a 26,700-kv-a. generator. H. J. Scholz. il diags Am Inst E E J 43:818-24 S '24; Discussion. 44:179-84 F '25

Old inductor-alternators help to meet power shortage. il Elec W 84:457 S 6 '24

Operation of a.c. generating apparatus. V. E. Johnson. diags Power Pl Eng 28:339-42, 438-40, 600-3, 758-9 Mr 15, Ap 15, Je 1, Jl 15 '24

Polyphase high-frequency alternators. S. Chiba. diags Inst E E J 62:947-54 N '24

Putting alternating-current generators into service. N. L. Rea. diags Power 61:980-3 Je 23 '25; Discussion. 62:66 Jl 14 '25

Recent developments in hydro-electric generators. F. D. Newbury. il diags Elec J 22: 210-15 My '25

Recent improvements in self-exciting polyphase generators and phase advancers. F. Creedy. diags Electrician 94:748-50 Je 26 '25

Self-contained magneto generator designed for truck and tractor lighting. diags Automotive Ind 51:529-30 S 18 '24

Self-exciting alternators. F. Contell. diag Elec R (Lond) 94:204-5 F 8 '24

7,140-kVA, 525-volt Brush-Ljungström turbo-generator. il Elec R (Lond) 94:898 My 30 '24; Same. Electrician 92:570+ My 9 '24

78 tons of whirling metal. il Am Ind 25:33 Je '25

Shape of pole-shoe required to produce a sinusoidal distribution of air-gap flux density. B. Hague. diags Inst E E J 62:921-9 N '24

Short circuits of alternating-current generators. C. M. Laffoon. Am Inst E E J 43:736-43 Ag '24; Discussion. 43:1187-90 D '24

65,000-kv-a. generator of the Niagara Falls power company. W. J. Foster and A. E. Glass. il diags plan Am Inst E E J 43:365-72 Ap '24; Abstract. Power 59:622 Ap 15 '24; Discussion. Am Inst E E J 44:70-2 Ja '25

65,000-kv-a. vertical waterwheel generators for the Niagara Falls power company. M. C. Olson and E. B. Plenge. il Gen Elec R 27:90-7 F '24; Same cond. Elec W 83:174-7 Ja 26 '24

Synchronisierung zweier drehstrom-generatoren durch unsymmetrische impedanzen. S. Bekku. Elektrotech Zeit 46:656-9 Ap 30 '25

Three-phase, 60,000-kv-a. turbo alternators for Gennevilliers. E. Roth. il diags Am Inst E E J 44:927-37 S '25

Three 65,000-kva. generators at Niagara Falls. il Power 62:88-91 Jl 21 '25

Turbo generator construction details. il Power Pl Eng 28:1208 D 1 '24

12,000-kw. steam turbo-generator at the British Empire exhibition. il diags Engineering 117:721-3, pl 72-4 Je 6 '24

Vertical alternator for New Zealand. il Elec R (Lond) 97:272-3 Ag 14 '25

Waterwheel generators and synchronous condensers for long transmission lines. M. W. Smith. il diags Am Inst E E J 42:894-903 S '23; Discussion. 43:259-60 Mr '24

Zusätzliche verluste in synchronmaschinen und ihre messung. R. Rüdenberg. diags Elektrotech Zeit 45:37-41, 59-63 Ja 17-24 '24; Discussion. 46:1011-16 Jl 2 '25

See also Circulatory currents; Electric generators, Synchronous

Cooling

Closed ventilation systems for cooling of generators; N.E.L.A. committee report. Power 62:7 Jl 7 '25

Experimental study of ventilation of turbo-alternators. C. J. Fechheimer. il diags Am Inst E E J 43:416-23 My '24; Discussion. 43: 1202-6 D '24

Multiple-path radial ventilation of large turbo-alternators. M. D. Ross. il diags Elec J 21:540-5 D '24

Multiple-radial system of cooling large turbo-generators. D. Bratt. diags Am Inst E E J 43:185-93 Mr '24; Discussion. 43:1202-6 D '24

Excitation

Die ankerkupferluste der vom netz erregten drehstromerregmaschine. W. Weiler. diags Elektrotech Zeit 45:1080-3 O 9 '24

Exciter practice in electric power stations. H. M. Rankin. il Power Pl Eng 29:645-9 Je 15 '25

What caused the exciter to be overloaded? Power 60:1027; 61:427 D 23 '24, Mr 17 '25

Failures

Throwing wrong switch leads to turbine wreck. il Power 59:413 Mr 11 '24

Inspection

How to check up the insulating condition of windings in an A. C. machine. il Ind Eng 82:282-3+ Je '24

ELECTRIC generators, Alternating current —*Continued*

Manufacture

Alternator frames; a simple mode of construction. W: Sharp. diags Elec R (Lond) 97:253 Ag 14 '25

Building huge hydro-electric machinery. il Mach 30:892-3 Jl '24

Parallel operation

Alternators supplying mine loads are easily and safely paralleled and operated. J. A. Erskine. il diags Coal Age 28:147-51 Jl 30 '25

Das arbeiten von synchronmaschinen im parallelbetrieb. Ossanna. diags Elektrotech Zeit 45:559-60 My 29 '24

Hunt self-synchronising alternator. il diags Engineer 139:526-7 My 8 '25; Elec R (Lond) 96:766-7 My 15 '25; Electrician 94:564-5 My 15 '25; Engineering 119:723-5 Je 12 '25; Power Pl Eng 29:854-6 Ag 15 '25; Mech Eng 47:748 S '25

Load transference between alternators in parallel. Elec W 84:1002, 1107, 1260 N 8, 22, D 13 '24

Method of paralleling alternators coupled to same shaft. R. S. Huntington. diag Ind Eng 83:153 Mr '25

Parallel operation of Alexanderson high-frequency alternators. J. L. Finch. il diags Gen Elec R 28:315-18 My '25

Parallel operation of a.c. generators. diags Power Pl Eng 29:33-5 Ja 1 '25

Parallel operation of generator with purchased power. V: H. Todd. diag Power 58: 806-7 N 20 '23; Discussion. J. Sprague. 59: 183 Ja 29 '24

Parallel running of alternators. J. Frith and F. Buckingham. Electrician 84:240-1, 268-9 [bibliog. p. 269] F 27-Mr 6 '25; Discussion. G. Windred. 94:399-400 Ap 3 '25

Phasing out the generator for parallel connection. Power 58:857; 59:28, 64-5, 182, 224-5, 341 N 27 '23, Ja 1-8, 29-F 5, 26 '24

Various methods of synchronizing. J: Auchincloss. diags Gen Elec R 28:692-702 O '25; Abstract. Elec W 86:905-6 O 31 '25

Protection

Protecting low-voltage generators. J. Reutler. diag Elec W 86:953 N 7 '25

Repair

Periodic inspection, cleaning and testing of alternating-current generators. Elec W 83: 289-90 F 9 '24; Discussion. W: B. Creagmile. 83:528 Mr 15 '24

Rewinding a large generator in thirty-three hours. A. J. Morroni. Ind Eng 82:155 Mr '24

Rewinding the field of a turbo-generator. A. C. Roe. il diags Ind Eng 82:279-81 Je '24

Testing

Measurement of electrical output of large a-c. turbo-generators during water-rates tests. E. S. Lee. diags Am Inst E E J 44: 847-54 Ag '25; Same cond. Gen Elec R 28: 782-9 N '25; Abstract. Mech Eng 47:857 O '25; Discussion. Am Inst E E J 44:1129-32 O '25

Ventilation

See Electric generators, Alternating current—Cooling

ELECTRIC generators, Direct current

Belt driven Edison bipolar dynamos. W. S. Andrews. il Gen Elec R 27:163-8 Mr '24

Changing a direct-current generator into a motor or vice versa. B. A. Briggs. diags Power 60:486-7 S 23 '24

Checking field-coil connections on direct-current machines. A. C. Roe. diags Power 59: 601-2 Ap 15 '24

Continuous-current generator for high-voltage. S. R. Bergman. il diags Am Inst E E J 42: 1041-5 O '23; Abstracts. Elec R (Lond) 93: 913-14 D 14 '23; Engineer 136:568 N 23 '23

Cross-compound impulse turbine geared to 4,000-kw. d.-c. generator. diags Power 60: 360-2 S 2 '24

Direct current dynamo and motor faults. R. M. Archer. 204p [bibliog. p. 199-200] Pitman '24

Direct current machinery types, construction and operation. il diags Power Pl Eng 29:8-10 Ja 1 '25

Effect of open circuit in balance coil of three-wire generator using two-balance coils. C. T. Pearce. Elec J 21:486-7 O '24

Field construction for d.c. generators. il diags Power Pl Eng 29:11-13 Ja 1 '25

Generator for direct-current auxiliaries driven by main unit. Power 60:211 Ag 5 '24

Latest type of self-excited generator for arc welding. H. R. McKean. il diags Gen Elec R 28:86-90 F '25

Load characteristic of a dynamo giving constant current over a large range of speed. J. C. Prescott. diags Inst E E J 63:206-10 F '25

Nouveau générateur électrique, à courant continu à 600 000 volts, système Gaiffe-Gallot et Pilon. il diag Génie Civil 86:341-2 Ap 4 '25

Obtaining steady high-voltage direct current from a thermionic rectifier without a filter. F. W. Maxstadt. il diags Am Inst E E J 43: 1055-7 N '24; Elec R (Lond) 95:957-8 D 19 '24

Old Edison d-c. generator. Am Inst E E J 43:633 Jl '24

Die regelung der spannung von gleichstromgeneratoren mittels glühkathodenröhren. W. Taeger. Elektrotech Zeit 45:1407-9 D 18 '24

Stability of direct-current generators at low voltages and when used with voltage regulators. C. Lynn. diags Elec J 21:304-8 Jl '24

Über das pendeln von gleichstrommaschinen in Leonardschaltung bei verwendung eines verbundgenerators als anlassmaschine. Elektrotech Zeit 45:1283-4 N 20 '24

Variable-speed dynamos of the third-brush type for train lighting. C. Coppock. diags Elec R (Lond) 96:567-9 Ap 10 '25

Failures

Combination of two unusual grounds caused shutdown of generator. A. J. Dixon. diags Ind Eng 82:299 Je '24

Parallel operation

Parallel operation of d.c. generators. diags Power Pl Eng 29:26-7 Ja 1 '25

Parallel operation of d.-c. generators—compensated types. C. Lynn. diags Power 62: 165-7 Ag 4 '25

Parallel operation of d.-c. generators—compound-wound type. C. Lynn. diags Power 61:945-7 Je 16 '25

Repair

Rebuilding a large commutator in place on a generator. E: James. diags Power 62:717-19 N 10 '25

Testing

Notes on the testing and installation of Edison bipolar dynamos:1880-1886. W. S. Andrews. il Gen Elec R 27:639-42 S '24

Trouble shooting in d.c. motors and generators. C: G. Green. diags Power Pl Eng 29: 1054-6 O 15 '25

ELECTRIC generators, Synchronous

Beitrag zur theorie der synchronmaschine mit ausgeprägten polen. A. Mandl. diags Elektrotech Zeit 46:484-9, 527-31 Ap 2-9 '25

Fundamental considerations of power limits of transmission systems. R. E. Doherty and H. H. Dewey. il diag Am Inst E E J 44: 1045-57 [bibliog. p. 1056-7] O '25

Initial and sustained short-circuits in synchronous machines. V. Karapetoff. diags Am Inst E E J 44:855-62; Discussion. 880-6 Ag '25

Zum frequenzanlauf synchroner maschinen. R. Brüderlin. Elektrotech Zeit 45:1239-40 N 13 '24

ELECTRIC hammers
Kango electric hammer; a new type. il diag Engineer 139:718 Je 26 '25; Engineering 119: 809 Je 26 '25; Automobile Eng 15:229 Jl '25; Electrician 95:154 Ag 7 '25; Elec R (Lond) 97:232-3 Ag 7 '25

ELECTRIC heaters
Commercial and domestic air heating; report of committee of the Pacific coast electrical association. J Elec 52:387-8 Je 1 '24
Electric blast heater. il Elec Ry J 65:108 Ja 17 '25
Electric fires; some new designs for 1924-25. il Elec R (Lond) 95:518, 553-4, 595 O 3-17 '24
Growing importance of electric air heating; report of Pacific coast electrical association. J Elec 54:403-7 Je 1 '25
Luminous electric radiators. Elec R (Lond) 96:653, 734, 879, 918, 999-1000 Ap 24, My 8, 29-Je 5, 19 '25
New electric fires; designs for the coming season. il Elec R (Lond) 97:533-4, 592-4, 638 O 2-16 '25
Progress in electric heating. il diags Electrician 93:353-7 S 26 '24
Tubular electric heating system. il Engineer 136:614 D 7 '23
Using electric unit heaters for industrial service. L. P. Hynes. il chart Am Soc Heat & V E J 30:581-7 Ag '24

See also Electric furnaces; Electric heating; Electric ovens; Electric stoves; Electric water heaters

Advertising
Giant electric heater attracts crowd's attention. il J Elec 51:385 N 15 '23
Stunt that increased sales of the Simplex electric heating company. R. P. Ingalls. il System 46:158-9 Ag '24

Directories
Electric radiator and heater directory. J Elec 55:293-4 O 15 '25

Merchandizing
How to sell heat. Electrician 91:576 N 23 '23
Report of Pacific coast electrical association sub-committee on methods of selling electric heating. J Elec 52:388-93 Je 1 '24

ELECTRIC heating
Application of electricity for domestic and industrial production of heat. A. Pfau. diag J Elec 55:205-9 S 15 '25
Commercial and domestic air heating; report of committee of Pacific coast electrical association. J Elec 52:387-8 Je 1 '24
Electric heating in the Esparto Union high school, San Francisco. A. Strauch. il J Elec 52:321-3 My 1 '24
Electric heating in the home. H. E. Sandoval. Heat & Ven 22:68 N '25
Electric heating of residences. E. A. Loew. Wash U Eng Exp Sta Bul 20:1-48 '23
Electric heating used to replace steam. L. V. Curran. Elec W 86:71 Jl 11 '25
Electrical construction. E. E. Browne. plan J Elec 52:208-9 Mr 15 '24
Die elektrowärme im haushalt. H. Beckert. Elektrotech Zeit (special no.) 45:13-14 Ag 28 '24
Growing importance of electric air heating; report of Pacific coast electrical association. J Elec 54:403-7 Je 1 '25
Heating by radiant energy; bell-shaped generators at ceiling. W. M. Meacham. diag Am Soc Heat & V E J 29:587-90 O '23
Is the electric air-heating load desirable? G: W. Barker. J Elec 54:361-3 My 15 '25
Joule's law of electric heating; an historical sketch. W. W. H. Gee. il Engineer 138:519-20 N 7 '24
Long distance heating. L. V. Curran. Management & Adm 9:567 Je '25
Place of electricity in the general heating field. L. P. Hynes. il Am Soc Heat & V E J 30:17-23 Ja '24
Le réglage thermostatique de la température sur les voitures chauffées électriquement. diags Génie Civil 85:72-3 Jl 19 '24
Report of Pacific coast electrical association sub-committee on methods of selling electric heating. J Elec 52:388-93 Je 1 '24
Seattle's electric heating era. Heat & Ven 22:97 S '25

See also Boilers—Electric heating; Boilers, Heating—Electric heating; Electric furnaces; Electric heaters; Electric stoves; Electric water heaters; Incubators, Electric

Costs
Electric heating of residences. E. A. Loew. Wash U Eng Exp Sta Bul 20:1-48 '23; Excerpt. Elec W 82:958-62 N 10 '23
Growing importance of electric air heating; report of Pacific coast electrical association. J Elec 54:405-6 Je 1 '25

ELECTRIC heating, Industrial
Age of fire is passing. C. Townley. il Sci Am 132:161-3 Mr '25
Annealing glass with the electric lehr. K. M. Henry. il J Elec 54:356-8 My 15 '25
Application of electricity for domestic and industrial production of heat. A. Pfau. diag J Elec 55:205-9 S 15 '25
Aufschrumpfung von stahlringen. E. Rosenberg. il Elektrotech Zeit 45:803-4 Jl 24 '24
Babbitt pots with automatic temperature control. il Elec Ry J 63:627-8 Ap 19 '24
Baking enamel by electricity. H. Allen. Iron Tr R 76:220-2 Ja 15 '25
Benefits of industrial electric heating. N. R. Stansel. Elec W 85:1389-90 Je 27 '25
Boosting flame temperatures with the electric arc. G: T. Southgate. il diags Chem & Met Eng 31:16-19 Jl 7 '24
Building industrial electric heating load. R. C. Griffin. il Elec W 83:889-90 My 3 '24
Burn clay ware in electric tunnel kiln. A. Paoloni. il diags Brick & Clay Rec 67:196-8 Ag 4 '25
Customers told about electric heating. E. A. Armstrong. Elec W 85:622-4 Mr 21 '25
Difficulty in obtaining industrial electric heating data. C. L. Ipsen. Elec W 85:1401 Je 27 '25
Drying sand by electricity at mines cuts outside labor cost. il Coal Age 28:370 S 10 '25
Economy of preheating wood electrically. J. L. Faden. il Elec W 85:669 Mr 28 '25; Same. Ind Eng 83:199 Ap '25
Electric boilers and digesters in pulp and paper mills. R. Sansone. diags Paper 34: 561-2 Jl 17 '24
Electric furnaces and electric heat applications discussed by A.I.S.E.E. Elec W 84:679-81 S 27 '24
Electric glue pot with thermostatic control. il Ry Mech Eng 98:246 Ap '24
Electric heat aids contractor in laying cold weather masonry. il Eng N 94:824 My 14 '25
Electric heat and bricklaying. S. F. Meyers. il Elec W 85:983-4 My 9 '25
Electric heat as used in modern industry. C. L. Wilson. il chart Ind Management 70:277-82 N '25
Electric heat in battery manufacture. P. E. Norris. il Management & Adm 9:380 Ap '25; Same. Ind Eng 83:251 My '25
Electric heat in railway repair shops. J: S. Dean. il Elec J 21:176+ Ap '24
Electric heat to the rescue. S. L. Lang. il Management & Adm 9:566-7 Je '25; Same. Elec W 86:318 Ag 15 '25
Electric heat treating applications. E. A. Hurme. Ind Eng 83:469-70; Discussion. 505 O '25
Electric heat used for battery compound. F. W. McGraw. Elec W 86:468 S 5 '25
Electric heating of sheet and tin mill rolls. G. Fox. il diags Blast F & Steel Pl 12:493-6 N '24
Electric industrial heating. H. M. Drake. diags Engineer 137:114-16 F 1 '24
Electric sand pipe heater. il Ry Age 76:336 F 2 '24; Ry Mech Eng 98:124-5 F '24; Engineering 119:58 Ja 9 '25
Electric space heaters used in making kegs. S. A. Frost. il Elec W 85:1028 My 16 '25

ELECTRIC heating, Industrial—*Continued*
Electrical heat in industry. W. S. Scott. Elec W 84:1307-9 D 20 '24
Electrical heating for vacuum impregnating apparatus. C. L. Smith. il Chem & Met Eng 32:818 O '25
Electrical heating resistor. il Chem & Met Eng 30:596 Ap 14 '24
Electrical heating simplifies process of changing turbine runner. il Eng N 92:166 Ja 24 '24
Electricity in boiling-out cotton. R. Sansone. diags Textile World 65:2119+, 2781+ Mr 29, Ap 26 '24
Elektrisches anwärmen von radreifen. A. E. Müller. il Elektrotech Zeit 46:1046-7 Jl 9 '25
Engineers study electric heat; American electrochemical society meeting. Iron Tr R 75: 957-8 O 9 '24; Iron Age 114:913-14 O 9 '24; Chem & Met Eng 31:615-16 O 20 '24
Glue pot with rheostatic heat control. il Elec Ry J 64:1008 D 13 '24
Heating by electricity in the chemical industries. R. M. Keeney. il Chem & Met Eng 32:805-9 O '25
Heating rivets by electricity. Sci Am 131:262 O '24
High-frequency inductive heating. D. Willcox. diag Iron Age 114:1617 D 18 '24
How electric heat has been put to work in low temperature enameling. W. B. Scott. il Automotive Ind 51:892-6 N 20 '24
Hynes & Cox electric oil heater. il Elec Ry J 66:410 S 12 '25
Industrial application of electric heat; report of Pacific coast electrical association. J Elec 54:416-17 Je 1 '25
Industrial electric heat. C. P. Yoder. Elec W 86:503-6, 559-61 S 12-19 '25
Industrial electric heat applications. il Elec W 85:308-9 F 7 '25
Industrial electric heating. W. S. Scott. Elec J 21:229-32 My '24
Industrial electric heating for central stations and manufacturers. N E L A Bul 11:578-82 S '24
Industrial electric heating—its possibilities and promises. F. A. Coffin. N E L A Bul 12:182-4+ Mr '25
Industrial electric heating survey. J. L. Faden. diags Elec W 85:919-23 My 2 '25
Industrial heating. A. J. Whitcomb. il Ind Eng 82:78-80 F '24
Load building possibilities of industrial heating. C. L. Ipsen. il Am Inst E E J 44:458-62 My '25; Abstract. Iron Tr R 76:1008-10 Ap 16 '25; Iron Age 116:74-6 Jl 9 '25
Low-temperature applications. E. A. Hurme. Ind Eng 82:472-3 O '24
Making industrial electric heating pay. W. S. Scott. il Elec W 83:971-2 My 10 '24
Medium-temperature installations. C. F. Cone. Ind Eng 82:473 O '24
Melting pots and ovens in brush factory are heated electrically. il J Elec 54:368 My 15 '25
Metallic resistor in industrial heating furnaces. E. F. Collins. il diag plan Chem & Met Eng 30:936-41, 981-5 Je 16-23 '24
New industrial application of electric heaters in sweating rooms of fruit packing plants. il J Elec 54:21 Ja 1 '25
Operating costs and industrial electric heating. W. S. Scott. il Elec J 21:283-4 Je '24
Paradox of electric heating. C. L. Wilson. Ind Management 69:45-8 Ja '25
Practical applications of electric heat. W. S. Scott. Elec W 84:750-1 O 4 '24
Profitable tri-partnership sells electric gluepots. Elec W 85:984 My 9 '25
Progress in electric heating. il diags Electrician 93:353-7 S 26 '24
Report of N.E.L.A. industrial electric heating committee. Elec W 85:1353-4 Je 20 '25
Selling electricity for industrial heating; report of committee of Pacific coast electrical association. J Elec 52:383-4 Je 1 '24
Soaking pit is heated electrically. T. F. Baily. Iron Tr R 76:562-3+ F 26 '25; Same. Blast F & Steel Pl 13:138-40+ Mr '25; Same, without table. Iron Age 115:617-18 F 26 '25
Strengthening the market for industrial electric heating equipment. C. I. Hayes. Elec W 83:258-9 F 2 '24
Trend in industrial electric heating. W. S. Scott. Elec W 83:802-3 Ap 19 '24
Use of electric hot-plate for tempering. Mach 31:996 Ag '25

See also Boilers—Electric heating; Electric furnaces; Electric furnaces, Heat treating; Electric ovens; Electric water heaters; Electric welding; Electric welding, Arc; Foundries—Electric equipment; Sterilizers, Electric; Thawing, Electric

Bibliography
Industrial electric heating bibliography. N E L A Bul 11:764-5 D '24

Costs
Costs of electric heating. E. F. Collins. Elec W 84:885-7 O 25 '24

ELECTRIC ignition
Hazard of flammable dust shown in a recent explosion of aluminum powder. D: J. Price and R. M. Baker. il diags plans Chem & Met Eng 29:878-82 N 12 '23
Ignition of gases; ignition by inductance sparks—mixtures of the paraffins with air. R: V. Wheeler. diags Chem Soc J 127:14-26 Ja '25
Ignition of gases; ignition by the impulsive electrical discharge—mixtures of the paraffins with air. R: V. Wheeler. Chem Soc J 125:1858-69 S '24
Thermal theory of gas ignition by electric sparks. J. D. Morgan. Philos Mag 6th ser 49:323-36 F '25

See also Airplane engines—Ignition; Gas and oil engines—Ignition; Spark gap

ELECTRIC incubators. See Incubators, Electric

ELECTRIC industries
Advance schedule for sales and advertising gets results. H. C. Thuerk. Elec W 82:1329-30 D 29 '23
Are electric goods to bear union label? Elec W 85:897 Ap 25 '25
Are electrical dealers making the most of radio? E. F. McDonald, jr. J Elec 53:415 D 1 '24
Are we overdoing high-tension selling? F. J. Gottron. Elec W 84:145-6 Jl 19 '24
Better business policies needed. A. H. Timmerman. Elec W 84:1027-8 N 8 '24
Between manufacturer and consumer—who bridges the gap? E. A. Kincaid. chart J Elec 51:403-6 D 1 '23
Can the electrical dealer sell radio? A. E. Schefframan. J Elec 51:452-3 D 15 '23
Distributing non-repeating equipment. P. J. Bodine. Elec W 84:1333 D 20 '24
Do electrical men practice what they preach? J Elec 54:218-19 Mr 15 '25
Electric industry. F. J. Haas. N E L A Bul 11:119-20 F '24
Electric power: the user and the price. E. G. Ross. Elec R (Lond) 95:373-5 S 5 '24
Electrical developments in 1924. J: Liston. Am Ind 25:33+ Ja '25
Electrical industry and its aid to production. G. Swope. Ind Management 66:290-1 N '23
Electrical jobbers' margins. W. R. Herstein. Elec W 86:37-8 Jl 4 '25
Electrical jobber's stores department. P. W. Todt. J Elec 52:162-4 Mr 1 '24
Electrical service: some notes on its obligations. E. G. Ross. Elec R (Lond) 95:569-70, 629-30 O 17-24 '24
Engineering aspects of jobber service. W. J. Keenan. Elec W 83:1206 Je 7 '24
Future of the electrical industry. H. C. Lamb. Inst E E J 63:17-21 D '24
Glance into the future. H. N. Nelson. J Elec 53:447-9 D 15 '24
How to put trading in the electrical industry on a proper basis. R. A. Ure. Electrician 92:78-9 Ja 18 '24
How Westinghouse sizes up the various industrial markets. A. M. Staehle. charts Sales Management 9:575-6+ O 31 '25

ELECTRIC industries—*Continued*
Industry acts to uproot its hidden sales obstacle; the Red Seal plan in the electrical industry. Ptr Ink 129:126+ O 2 '24
International electrical relations. Elec R (Lond) 96:321-3, 398 F 27-Mr 6 '25
Inventions and problems in the early days of the electrical industry. E. W. Rice, jr. N E L A Bul 12:107-10+ F '25
Manufacturers' agent as a factor in the distribution scheme. E. A. Kincaid. diags J Elec 51:444-8 D 15 '23
Manufacturing then and now. W. A. Layman. Elec W 84:631-2 S 20 '24
Outlook in the electrical business. Elec W 83: 55-6 Ja 5 '24
Position of the jobber in the distribution system. E. A. Kincaid. charts J Elec 52:50-4 Ja 15 '24
Practical economy in distribution. Elec W 83: 162-3 Ja 19 '24
Problems of the manufacturers' agent. E. A. Kincaid. J Elec 52:17-19 Ja 1 '24
Recent trends and problems in electrical manufactures. E. M. Herr. Elec W 83:8-9 Ja 5 '24
Responsibility of the jobber for the contractor-dealer. E. A. Kincaid. J Elec 52:240-3 Ap 1 '24
Unfair competition. Elec R (Lond) 96:46-8 Ja 9 '25
Value of an outlet to the electrical industry. E. W. Day. J Elec 53:277-82 O 15 '24
What is the future of the electrical dealer? H. H. Courtright. J Elec 55:216-17 S 15 '25
What the women are doing for the electric industry. S. Malicki. N E L A Bul 12:78-80 F '25
Why not allow rebates instead of charging extras? E. G. Ross. Elec R (Lond) 94:782-4 My 16 '24

See also Electric apparatus and appliances; Electric-contractor dealers; Electric contractors; Electric engineering; Electric heating; Electric lighting; Electric meters; Electric plants (central stations); Electric power; Electric shops (retail trade); Electric utilities; Electric welding; Electricity in mining; Electrochemical industries; Electrochemistry; Electrometallurgy; Electroplating; Radio apparatus industry; Washing machines, Electric; *also* Allis-Chalmers manufacturing company; American Brown-Boveri electric corporation; Council on industrial relations for the electrical construction industry; Edison industries; General electric company; Philadelphia electric company; Western electric company; Westinghouse electric and manufacturing company

Accounting

Department store methods an aid in checking dealers' costs. J Elec 52:136 F 15 '24
Manual of accounting practice. 80p Association of electragists, International, New York '25
Practical system of accounting for contractor and dealer. F. V. Mitchell. J Elec 52: 248-9, 286-7, 326-7, 364-5, 496-7; 53:22-3, 60-1, 96-7, 136-7, 210-12, 248-50, 300-1, 332-3, 368-9, 406-7, 446-7; 54:20-1, 60 Ap 1-My 15, Je 15-Ag 15, S 15 '24-Ja 15 '25

See also Electric utilities—Accounting

Advertising

Advertising for a $5,000,000 electric sales campaign. J. C: Jordan. J Elec 55:277-8 O 15 '25
Advertising in the electrical industry. Elec R (Lond) 93:972 D 28 '23
Co-operative advertising of electricity. Elec R (Lond) 95:116-17 Jl 18 '24
Electrical show on wheels. il Elec W 86:908-9 O 31 '25
Give your dealers ideas in trade copy. E. B. Weiss. il Ptr Ink M 11:40-1 N '25
Home lighting contest. il plans Bldg Age 46: 78 Ag '24
How advertising can help the retail electrical trade. E. N. Simons. Elec R (Lond) 95:131-2 Jl 25 '24
How circularising can help the retail electrical trade. E. N. Simons. Elec R (Lond) 95: 460-1 S 26 '24
How the electrical-journal field generates power. il Ptg Art 43:437-45 Jl '24
Is there a one best time to start advertising? H. M. Hitchcock. Ptr Ink 133:41-2+ O 15 '25
Making capital of disaster. Ptr Ink 127:145 My 8 '24
Making customers out of advertisement readers. J Elec 51:418 D 1 '23
Making the advertisement appeal to the customer. V. Caldwell. J Elec 52:291 Ap 15 '24
Making the branch a local institution. G: R. Wicker. Ptr Ink 132:17-20 S 10 '25
Need for advertisement; abstracts with discussion. V. W. Dale. Elec R (Lond) 96:37 Ja 2 '25; Electrician 93:732 D 26 '24
No glittering copy generalities for General Electric. W. L. Larned. Ptr Ink 132:25-6+ S 17 '25
Novel development campaign. Electrician 92: 171, 201, 233, 265 F 8-29 '24
Results tell the 1923 story for the cooperative campaign. J Elec 52:168-71 Mr 1 '24
Retail advertising. Electrician 92:139; 93:360; 94:41-2 F 1, S 26 '24, Ja 9 '25
Saving waste on dealer-help advertising. Elec W 83:906-7 My 3 '24
Three direct-by-mail ideas that sell merchandise. J: T. Bartlett. J Elec 51:419 D 1 '23
Traveling electrical display attracts attention. il J Elec 52:60 Ja 15 '24
When the old customer is really a new prospect; model building for display of Westinghouse products. il Sales Management 9: 19-20 Jl 11 '25
Whole industry advertises to finish a pioneer job. Ptr Ink 128:41-2 Ag 28 '24

See also Electric utilities—Advertising

Directories

Journal of electricity appliance directories. J Elec 55:289-97 O 15 '25
Manufacturers, trade names and products represented in the West. J Elec 55:sup40+ O 15 '25

See also Electric heaters—Directories; Electric stoves—Directories; Vacuum cleaners—Directories

Electric home exhibitions

Displaying the electric home. il J Elec 52:65, 140, 216 Ja 15, F 15, Mr 15 '24
G.E.C. electric home. il Elec R (Lond) 96: 792-3 My 15 '25
Ideal home exhibition. Elec R (Lond) 96: 368-9, 422-3, 475-6 Mr 6-20 '25; Electrician 94:281-2, 312-13 Mr 6-13 '25
Los Angeles stages exposition of model houses. il J Elec 53:336 N 1 '24
Red Seal electric home opened in Santa Cruz. il J Elec 55:95 Ag 1 '25

Exhibitions

B.E.D.A. at Wembley. il Electrician 92:384-5 Mr 28 '24
British industries fair, Birmingham, May 12-16. il Elec R (Lond) 94:856-7 My 23 '24
British industries fair, Birmingham, 1925. il Elec R (Lond) 96:327-8, 395-6 F 27-Mr 6 '25
Electrical engineering exhibits at the British Empire exhibition. il Engineer 137:436-8, 553-6, 558-65, 589-91, 621-4, 650-2, 707-11; 138:32-5, 65-8, 126-7, 154-5, 176-8, 231-3, 256-8, 313-16, 370-4, 382, 400-2, 428-30, 488-90 Ap 25, My 16-Je 13, 27, Jl 11-18, Ag 1-15, 29-S 5, 19, O 3-17, 31 '24; Engineering 117:541-6, pl 44-5 Ap 25 '24; Elec R (Lond) 94:707-14, 753-7, 813-15, 843-7, 886-7, 937-40, 967-70, 1019-20, 1049-51; 95:39-41, 76-8, 103-7, 158-9, 182-5, 229-31, 256-7, 302-3, 337-9, 377, 390-1, 480-1, 555-6, 580-3, 633-5, 672-3 My 2-S 12, 26, O 17-31 '24; Electrician 93:152, 205-6 Ag 8, 22 '24
Electrical plant at Wembley. il plans Electrician 92:390-6, 424-5 Mr 28-Ap 4 '24

ELECTRIC industries—Exhibitions—*Continued*
Die frühjahrsausstellung im hause der elektrotechnik. E. Orlich. il diags Elektrotech Zeit 46:721-8 My 14 '25
G.E.C. at Wembley; an electrical exhibition in little. il Electrician 92:596-7 My 16 '24
Das haus der elektrotechnik auf der frühjahrsmesse in Leipzig. E. Orlich. il diags Elektrotech Zeit 45:609-15 Je 12 '24
International Cologne fair. T. F. Wall. Elec R (Lond) 95:492-4 O 3 '24
Macy brings producer and consumer together; twenty-five electrical manufacturers unite in week's demonstration. Ptr Ink 131:10+ My 21 '25
Santa Clara county dealers hold unusual display; a cooperative exhibit at which no sales were permitted. il J Elec 52:138-9 F 15 '24
Telling the story in the Palace of electricity at the California industries exposition. il J Elec 52:24-5 Ja 1 '24
Threefold rôle of New York's annual electrical show. il Elec W 84:901-2, 906 O 25 '24
Wembley in being. il Electrician 92:538-9+ My 2 '24

Finance

Capital requirements for manufacturing. W. A. Layman. Iron Age 114:210-12 Jl 24 '24; Same cond. Elec W 84:41-3 Jl 5 '24
General electric company's segregation plan. Bradstreet's 53:6 Ja 3 '25
Our financing takes care of itself; Newark electrical supply company. O. F. Rost. il System 47:161-3+ F '25

Securities

Stock and bond quotations of electric light and power and manufacturing companies. Published in weekly numbers of Electrical world

Service

Better service for the user of electrical appliances. M. A. MacGillivray. il J Elec 53: 360-1 N 15 '24
Electric range servicing and complaint costs. Elec W 86:323 Ag 15 '25
Measurement of electrical service. E. Graham. Elec R (Lond) 97:446-8 S 18 '25
Service problems of distribution. W. R. Herstein. Elec W 84:1128-31 N 22 '24
Servicing domestic electric refrigerators. H. E. Young. Elec W 84:1149-52 N 29 '24

Statistics

Are annual approximations of value? Elec W 85:69-70 Ja 3 '25
Electrical manufacturers need statistics. J. H. McGraw. Elec W 84:1229-31 D 6 '24
Healthy increase in electrical export trade during 1923. R. A. Lundquist. Elec W 83: 45-6 Ja 5 '24
Merchandise sales in New York city $25,000,000 annually. Elec W 85:775 Ap 11 '25
Principal exports of generators, wire, electrical glassware, globes, and shades for lighting fixtures, etc., from the United States during 1923; tabulation. Elec W 83: 1158-9 My 31 '24
Principal exports of locomotives, starting and control equipment, fans, lamps, flashlights, searchlights, etc., from the United States during 1923; tabulation. Elec W 83:1210-11 Je 7 '24
Principal exports of railway signaling apparatus, magnetos, insulating material, wiring supplies, radio apparatus, telephones, etc., from the United States during 1923; tabulation. Elec W 83:1160-1 My 31 '24
Principal exports of switches, circuit breakers, watt-hour meters, lightning arresters, motors, storage batteries, etc., from the United States during 1923; tabulation. Elec W 83:1208-9 Je 7 '24
Trend in prices of electrical materials since 1914. Elec W 83:356-8 F 16 '24
Trend of electrical sales. Elec W 85:485-6 F 28 '25
Value of electrical exports for December, 1923, and for the entire year, compared with corresponding periods last year. Elec W 83: 261 F 2 '24

See also Electric plants (central stations)—Statistics

Argentina

Electrical imports of Argentina. Elec R (Lond) 97:114 Jl 17 '25
Elektrizitätsversorgung in Argentinien. G. Niebuhr. Elektrotech Zeit 45:505-6 My 15 '24

Australia

Electrical imports of Australia. Elec R (Lond) 97:76 Jl 10 '25
Electrical trade of Australia; imports and exports. Elec R (Lond) 95:892-3 D 12 '24
Electrical trade organisation in Australia. E. Perugini. Elec R (Lond) 96:1031-2 Je 26 '25

Austria

Electrical import and export trade of Austria. Elec R (Lond) 97:636-7 O 16 '25
Electrical trade of Austria and Hungary. Elec R (Lond) 96:195 Ja 30 '25
Die österreichische elektrizitätsindustrie im jahr 1924. E. Honigmann. Elektrotech Zeit 46:1441-6 S 17 '25
Die österreichische elektroindustrie im jahre 1923. E. Honigmann. Elektrotech Zeit 45: 1213-16 N 6 '24
Position of the electrical industry in Austria. Elec R (Lond) 95:689 N 7 '24

Burma

Electrical trade in Burma. Elec R (Lond) 94:114 Ja 18 '24

California

See Electric plants (central stations)—California; Electric utilities—California; Electricity supply—California

Canada

Canadian electrical imports and exports. Elec R (Lond) 96:39-40 Ja 2 '25
Canadian electrical market important. Elec W 84:1080 N 15 '24
Canadian imports and exports. Elec R (Lond) 93:675 N 2 '23
Electricity in the States and Canada. R. H. Schofield. Electrician 93:642+ D 5 '24

See also Electric plants (central stations)—Canada

Chile

Electrical developments in Chili. il Electrician 91:734-5 D 28 '23

China

Electrical industry in China. Elec R (Lond) 94:74-5 Ja 11 '24

Cuba

Build export sales through known facts. L. Emery. Elec W 85:793-4 Ap 11 '25

Czechoslovakia

Electrical imports of Czechoslovakia. Elec R (Lond) 96:471 Mr 20 '25
Elektroindustrie, energiewirtschaft und funkwesen in der Tschechoslowakei. G. W. Meyer. map Elektrotech Zeit 45:1208-12 N 6 '24
Statistik der tschechoslowakischen elektrizitätswerke. G. W. Meyer. Elektrotech Zeit 46:696-8 My 7 '25

Egypt

Egyptian trade and finance. Elec R (Lond) 97:474 S 18 '25

Far East

Foreign customers need America's help. G. E. Tripp. Elec W 83:404-5 F 23 '24

France

Business side of French electrical development. Elec W 86:110 Jl 18 '25

ELECTRIC industries—France—*Continued*
Electrical industry in France. Power 60:864 N 25 '24
Electrical progress in France. Elec W 84: 1356 D 27 '24
France electrifies industries. Am Ind 25:42-3 D '24
French electrical industries. Electrician 93:270 S 5 '24
French electrical industry. Elec R (Lond) 96: 194 Ja 30 '25
French electrical manufacturing industry. Elec W 84:493-4 S 6 '24
French electrical trade. Elec R (Lond) 97: 153-4 Jl 24 '25

Germany

Das deutsch-spanische handelsabkommen. R. Fellinger. Elektrotech Zeit 46:11-14 Ja 1 '25
Deutschlands elektrotechnischer aussenhandel im jahre 1924. G. Becker. Elektrotech Zeit 46:481-4 Ap 2 '25
Development of electrical power in Germany. Economist 98:1150-1 Je 7 '24
German electrical industry; Leipzig fall fair, 1923. A. J. Gray. U S Bur For & Dom Com Trade Information Bul 187:1-16 '24
Germany's foreign electrical trade in 1924. Elec R (Lond) 96:1033 Je 26 '25
Organisationsform und wirkungsgrad im überseegeschäft. E. L. Jordan. Elektrotech Zeit 45:8-9 Ja 3 '24
Welcher massnahmen in technischer und kaufmännischer beziehung bedarf es zur erhaltung der wettbewerbsfähigkeit der deutschen elektrotechnischen industrie auf dem welt-markt? J. Hissink. Elektrotech Zeit 45:865-9 Ag 14 '24
Die weltwirtschaftliche umstellung seit 1914 und die sich hieraus ergebenden aufgaben der zukünftigen deutschen handelspolitik unter besonderer berücksichtigung der elektrotechnischen industrie. D. von Raumer. Elektrotech Zeit 45:945-9 S 4 '24

See also Electric plants (central stations) —Germany; Electricity supply—Germany

Great Britain

Britain's electrical imports and exports; the trend of trade since the war. Elec R (Lond) 95:924-6 D 19 '24
British electrical exports in 1921 and 1922. Elec R (Lond) 93:884-5 D 14 '23
Creating demand for service. R. Hardie. Electrician 92:202-3, 235-6 F 15-22 '24; Same cond. Elec R (Lond) 94:253-4 F 15 '24
Delayed deliveries. Elec R (Lond) 93:812-13, 917, 934, 974-5; 94:132-3 N 30, D 14-28 '23, Ja 25 '24
Development of electricity supply in residential areas; abstracts. Elec R (Lond) 93: 477-8 Mr 20 '25; Electrician 94:340-1 Mr 20 '25
Discontent and the lack of policy. Elec R (Lond) 96:764-5 My 15 '25
Electric lamp trade in England. Electrician 93:100 Jl 25 '24
Electrical imports of the United Kingdom and their origin; statistics for 1921 and 1922 compared. Elec R (Lond) 93:831 N 30 '23
Electrical industry in 1924. B: Longbottom. Electrician 94:368 Mr 27 '25
Electrical manufacturing industry; official evidence before the Balfour committee. Elec R (Lond) 96:914 Je 5 '25
Electrical possibilities offered by the housing boom. map Electrician 92:114 Ja 25 '24
Electrical wholesalers. Electrician 94:184-5 F 13 '25
External trade and unemployment in the British electrical machinery trade. W. P. Digby. Elec R (Lond) 97:208 Ag 7 '25
Getting old houses wired. R. Hardie. il Electrician 94:362-4 Mr 27 '25
Inaugural address. W: B. Woodhouse. Inst E E J 63:1-8 D '24; Same cond. Engineer 138:505-6 O 31 '24; Abstracts. Elec R (Lond) 95:649-51 O 31 '24; Electrician 93:490-1 O 31 '24
Our foreign trade in electrical machinery. Elec R (Lond) 95:718 N 7 '24
Present position of the British electrical industries. Engineering 119:706 Je 5 '25
Report of B.E.A.M.A. committee on industry and trade. Electrician 94:667 Je 5 '25
Rise of British electrical exports during the years 1908-1925; chart. Electrician 95:254 Ag 28 '25
Trade in 1923; increases in the year's electrical imports and exports. Electrician 92: 82 Ja 18 '24

See also Electric plants (central stations) —Great Britain; Electricity supply—Great Britain

Halifax, England

Electricity in Halifax. il map Electrician 92: 664-7 My 30 '24

Hungary

Electrical trade of Austria and Hungary. Elec R (Lond) 96:195 Ja 30 '25

India

Electrical **imports of India, 1921-1922** and 1922-1923. Elec R (Lond) 94:1022 Je 20 '24
Electrical prospects in India. P. E. Peronne. Elec R (Lond) 93:990-1 D 28 '23
Indian electrical imports in 1924. Elec R (Lond) 96:713 My 1 '25
India's electrical imports, 1922-1923 and 1923-1924. Elec R (Lond) 97:271-2 Ag 14 '25

Ireland

Electrical imports of the Irish Free State. Elec R (Lond) 96:835 My 22 '25

Italy

Condition of the electrical industry in Italy. J. S. Barnes. Elec R (Lond) 94:189-90 F 1 '24
Italian trade and industry. Elec R (Lond) 97:231-2 Ag 7 '25
Italy's electrical trade. Elec R (Lond) 96: 953 Je 12 '25

See also Electric plants (central stations) —Italy

Japan

Electrical industry in Japan devastated. il Elec W 82:1258 D 22 '23
Japan's electrical machinery needs outlined. G. E. Tripp. Am Mach 60:344a F 28 '24
Present situation of electrical undertakings in Japan. M. Shibusawa. Power 60:346 Ag 26 '24
Sixteen thousand people inspect Japan's first electric home. F. D. Fagan. il J Elec 54:204-6 Mr 15 '25

Latin America

Near-by Latin markets. R. A. Lundquist. **Elec W 86:388-9, 388-9 Ag 15-22 '25**

Manchuria

Electrical enterprise in Manchuria. Elec R (Lond) 94:901-2 My 30 '24

Mexico

Electrical industry of Mexico; the prospects of revival. P. F. Martin. Elec R (Lond) 97:531 O 2 '25

Netherlands

Electrical trade of Holland. Elec R (Lond) 94:773; 96:712-13 My 9 '24, My 1 '25

New York (city)

Experiment in co-operation; a remarkable record of achievement by the New York electrical board of trade. C: L. Eidlitz. Elec W 82:1219-21 D 15 '23

New Zealand

Electrical development in New Zealand. V. Ferranti. Elec R (Lond) 96:487-8, 553-4 Mr 27-Ap 3 '25
Electrical imports of New Zealand. Elec R (Lond) 95:874; 97:511-12 D 5 '24, S 25 '25

ELECTRIC industries—*Continued*

North Carolina

Electrical South; a glimpse of North Carolina. il Elec W 83:1129-31 My 31 '24; Same. N E L A Bul 11:682-3 N '24

Norway

Norwegian trade and industry. Elec R (Lond) 96:911 Je 5 '25

Trade conditions in Norway. Elec R (Lond) 95:270-1 Ag 15 '24

Pacific coast

Has the Pacific coast jobber problems that are his alone? E. A. Kincaid. J Elec 52:128-31 F 15 '24

Organization of the electrical market on the Pacific coast. E. A. Kincaid. J Elec 51:365-7 N 15 '23

Peru

Peru as a market for electrical supplies. Elec R (Lond) 96:311 F 20 '25

Poland

Poland building an electrical industry. H. V. Bozell. map Elec W 84:675-7 S 27 '24

Russia

Electrical situation in Russia. Elec R (Lond) 94:949-50 Je 13 '24

Glimpse at Russia's electrical development. H. V. Bozell. map Elec W 84:521-2 S 13 '24

See also Electric plants (central stations)—Russia

St Louis

St Louis as an electrical center. Am Ind 26:29-30 O '25

South Africa

British trade in South Africa. Elec R (Lond) 94:33 Ja 4 '24

Trade statistics of South Africa. Elec R (Lond) 97:435-6 S 11 '25

See also Electricity supply—South Africa

South America

Electrical progress in South America. Elec R (Lond) 94:169-70 F 1 '24

Spain

Das deutsch-spanische handelsabkommen. R. Fellinger. Elektrotech Zeit 46:11-14 Ja 1 '25

Electrical development in Spain. Elec R (Lond) 97:196 Jl 31 '25

Electrical progress in Spain. Elec R (Lond) 96:511 Mr 27 '25

Sweden

Swedish electric light and power statistics, 1921. Elec W 83:570 Mr 22 '24

Swedish electrical imports, 1922 and 1923. Elec R (Lond) 95:636 O 24 '24

Swedish electrical imports, 1924. Elec R (Lond) 97:709 O 30 '25

Switzerland

Die berechtigung der ausfuhr elektrischer arbeit aus der Schweiz. Elektrotech Zeit 45:15-16 Ja 3 '24

Swiss conditions in 1924. Elec R (Lond) 96:873 My 29 '25

Swiss electrical trade statistics. Elec R (Lond) 93:950-1; 94:811-12; 96:635-6 D 21 '23, My 16 '24, Ap 17 '25

See also Electric plants (central stations)—Switzerland

United States

Another market survey that has wide application; analysis of electrical sales. Ptr Ink 129:41-2 O 2 '24

Business facts for electrical men. Published in the third issue of each month of Electrical world

Business in electrical supplies increases. Dun's R 32:8-9 D 13 '24

Co-operation between gas and electricity works. R. Blomquist. Gas J (Lond) 171:388-9 Ag 12 '25; Same. Gas Age 56:349-50+ S 12 '25

Electrical exports encouraging. R. A. Lundquist. Elec W 85:54-5 Ja 3 '25

Electrical exports of the United States, 1923. Elec R (Lond) 96:274-5 F 13 '25

Electrical machinery companies. Moody's Inv Serv 17:169-70 My 21 '25

Electrical supply trade continues active. Dun's R 32:8 Ap 19 '24

Electricity in the American home. Comm M 6:3-10 F '25

Electricity in the States and Canada. R. H. Schofield. Electrician 93:642+ D 5 '24

Gain in production of electrical supplies. Dun's R 33:8-9 S 26 '25

Government aids for taking guesswork out of quota setting. P. S. Salisbury. Sales Management 7:1769-70 N '24

Mistake of selling the industry short. A. M. Jackson. Elec W 85:689-90 Mr 28 '25

Rapid progress recently made in the large-scale development of the American electrical industry. Econ W n s 27:658-9 My 10 '24

Some developments in the electrical industry during 1923. J: Liston. il diags Gen Elec R 27:9-60 Ja '24; Same cond. N E L A Bul 11: 13-19 Ja '24; Excerpts. Blast F & Steel Pl 12:25-8+ Ja '24; Abstract. Iron Age 113:223-4 Ja 17 '24

Survey of electrical trade. Dun's R 32:8 Ag 16 '24

Survey of the business outlook. F: P. Vose. Elec W 82:1090-2 N 24 '23

Sustained demand for electrical supplies. Dun's R 33:8-9 My 30 '25

See also Electric plants (central stations)—United States; Electricity supply—United States; *also* General electric company; Society for electrical development, inc.

Western states

Revised map of the electrical West showing jobbing centers, railroad routes, and statistics on electrical development. J Elec 52: supp F 1 '24

See also Electric plants (central stations)—Western states

ELECTRIC inspection

Need for electrical inspection in rural districts. C. W. Mitchell. J Elec 52:320-1 My 1 '24

See also Electric apparatus and appliances—Testing; Electric lines—Inspection; Electric substations—Inspection; Electric transformers—Inspection; Elevators, Electric—Inspection

ELECTRIC instruments

Accuracy of alternating-current test instruments. S. C. Hoare. il diags Am Inst E E J 44:969-73 S '25; Discussion. 44:1129 O '25

Electrical measuring instruments. il Power Pl Eng 29:74-5 Ja 1 '25

Electrical measuring instruments. C. V. Drysdale and A. C. Jolley. 2v 440p;475p Van Nostrand '24; Review (v 1) by W. M. Selvey. Electrician 92:513 Ap 25 '24

Electrical recording instruments at the British Empire exhibition. diags Engineering 118: 207-8 Ag 8 '24

Hitzdraht-messgeräte mit neuartiger präzisions-temperaturkompensation. A. Steinert. diags Elektrotech Zeit 45:365-6 Ap 17 '24

Instrument connections made convenient. J. R. Halladay. il Elec W 85:981-2 My 9 '25

Neue registrierende frequenzmessgeräte der Hartmann & Braun. W: Geyger. diag Elektrotech Zeit 45:303-4 Ap 3 '24

Operation of electrical temperature indicators and recorders. E. H. Stivender. diags Power 60:1051-3 D 30 '24

Some new electrical instruments for automotive research. J. H. Hunt and G. F. Embshoff. bibliog il diags Soc Auto Eng J 16:444-55 Ap '25

ELECTRIC instruments—*Continued*
Totalizing and remote indication of electric power and its reactive component. H. K. Nock and H. S. Edgerly. il diags Gen Elec R 27:758-61 N '24
Umschaltbare präzisionsinstrumente für gleichstrom. W. Skirl. il diags Elektrotech Zeit 45:593-4 Je 5 '24
Wellenstrommagnetisierung und wellenstrommessung mit eisenhaltigen messgeräten. M. Stöckl. Elektrotech Zeit 46:58-9 Ja 8 '25

See also Electric measurement; Electric meters; Electric testing; Electrotherapeutics—Apparatus and appliances; Klydonograph; Telemeter

Exhibitions

Electrical instruments at the British Empire exhibition. il Engineer 137:503-4 My 9 '24
French physical society's exhibition. il Elec R (Lond) 94:208-9, 249-50, 311-12 F 8-22 '24
Physical and optical societies' exhibition. il diags Elec R (Lond) 94:49-50, 111-12, 150-2, 175-6 Ja 11-F 1 '24; Electrician 92:42, 72 Ja 11-18 '24; Engineer 137:12-14 Ja 4 '24; Engineering 117:20-1, 54-6 Ja 4-11 '24
Physical and optical societies' exhibition. il diags Engineer 139:52-4 Ja 9 '25; Engineering 119:50-2, 79-82 Ja 9-16 '25; Electrician 94: 66-7, 91-2, 119-20 Ja 16-30 '25; Elec R (Lond) 96:113-15, 153-5, 192-3, 207-9 Ja 16-F 6 '25
Royal society's soirée. Elec R (Lond) 96:804-5 My 22 '25

Repair

Overhauling electrical measuring instruments. J. D. Zook. il Ind Eng 83:219-22+ My '25
Repairing electrical instruments. il diag Blast F & Steel Pl 11:649-51 D '23

Testing

Electrical standardizing laboratory; Southern California Edison company. W. R. Frampton. il Elec W 86:411-13 Ag 29 '25

ELECTRIC insulation. See Insulation (electric)

ELECTRIC interrupters
Interrupteur électrique à dilatation d'air, pour minuteries d'escaliers. diag Génie Civil 85: 483 N 22 '24
Study of the electrolytic interrupter. J. A. Crowther and R. J. Stephenson. Philos Mag 6th ser 50:86-96, pl 2 Jl '25

ELECTRIC irons
Electric iron risks. Elec R (Lond) 95:122, 176, 247 Jl 18, Ag 1, 15 '24
Electric irons without the cord. il Sci Am 131: 332 N '24
New sales argument which came from a furnace tender; Spencer thermostat. R. Crothers. Ptr Ink M 10:48+ My '25
Testing the new product's sales appeal. Ptr Ink 131:49-50+ Ap 23 '25

See also Ironing machines

ELECTRIC laboratories
Alhambra plant of the Southern California Edison company uses testing laboratory. W. R. Frampton. il plan Elec W 86:304-8 Ag 15 '25
California institute of technology's million-volt laboratory. R. W. Sorensen. il diags J Elec 53:242-4 O 1 '24; Same cond. Elec W 84:735-7 O 4 '24
Electrical standardizing laboratory; Southern California Edison company. W. R. Frampton. il Elec W 86:411-13 Ag 29 '25
Henley's new laboratories at Gravesend. il plan Electrician 93:634-6 D 5 '24; Engineer 138:607-8, 614 N 28 '24; Elec R (Lond) 95: 859-60 D 5 '24; Engineering 118:736-8 N 28 '24
High-voltage test room designed for safety. il Elec W 85:1406 Je 27 '25
High voltage testing; equipment of the Metropolitan-Vickers electrical co.'s research laboratory. il diags Electrician 94:148-9+ F 6 '25; Engineer 139:481-3 My 1 '25
Le laboratoire Ampère, de la Compagnie générale d'electro-céramique, pour essais à très hautes tensions. il diags Génie Civil 84:183-5 F 23 '24
Laboratory for the central station. J: D. Morgan. charts Power Pl Eng 28:637-8 Je 15 '24
Large new research laboratories in England. Elec W 85:558 Mr 14 '25
Das 1 000 000 v-versuchsfeld der Hermsdorf-Schomburg-isolatoren G. m.b. H. in der porzellanfabrik Freiberg (Sa.). O. Naumann. il diags Elektrotech Zeit 45:177-80 Mr 6 '24; Abstract. Elec W 83:1015-16 My 17 '24
New Stanford laboratory; an interview with Harris J. Ryan. A. R. Boone. Elec W 86: 745-6 O 10 '25
Recent developments in electrical laboratory equipment. F. S. Wheeler. il diags Elec J 22:544-50 N '25
Research at the General electric co. and its effect on variety. L. A. Hawkins. il Ind Management 66:327-34 D '23; Same abr. Sibley J 37:127-9 Je '23

See also Edison lighting institute; Radio laboratories

ELECTRIC lamps
L'amélioration de l'éclairage public et privé au moyen de réfracteurs en verre. diags Génie Civil 85:236-7 S 13 '24
Cadmium in the electrical industry. N. F. Budgen. Electrician 94:271+ Mr 6 '25
Development of electric light. H: Schroeder. il diags Sibley J 37:210-20 D '23
Discussion of three forms of artificial light as a testing standard for determining fastness to light. H: S. Thayer. Am Dyestuff Rep 13:136-7 F 25 '24
L'éclairage des locaux industriels et commerciaux. J. Lynn. il diags Génie Civil 84:417-20 My 3 '24
Electric lamp industry adopts simplified line. Ptr Ink 132:147-8 Ag 6 '25
Electric lamp trade in England. Electrician 93:100 Jl 25 '24
First low voltage gas filament lamp. D. M. Moore. il diags Am Electrochem Soc Trans v 44 (preprint 27):339-47 S '23; Same cond. Illum Eng Soc 18:763-5 O '23
Inventions of Sir Joseph Wilson Swan, F.R.S. Elec R (Lond) 94:742-3 My 9 '24
Light, not lamps, determines economy of car lighting. E. E. Dorting. il Elec Ry J 64:80-2 Jl 19 '24
Million lamps made daily in 1923 to light United States. Comm & Fin Chr 118:138 Ja 12 '24
Progress in lighting and illumination. G. H. Stickney. Am Inst E E J 43:750-3 Ag '24
Eine raumbeleuchtungslampe für zerstreutes licht. diag Elektrotech Zeit 45:65 Ja 24 '24
Die stehlampe. Elektrotech Zeit 45:1315-16 N 27 '24
Tomadelli not enjoined. Elec W 83:1299 Je 21 '24
Year's progress in illumination 1923-1924. Illum Eng Soc 19:717-25 O '24

See also Automobiles—Lighting; Electric lanterns; Electric light fixtures; Electric lighting; Locomotive headlights; Safety lamps, Electric; Searchlights

Locks

Lock for electric light bulbs. diags Arch & Bldg 57:46 My '25
Smith-Pearson electric lamp lock. il Am Mach 60:640 Ap 24 '24

Manufacture

Romance in lamp making. il Elec W 84:242-3 Ag 2 '24

Merchandizing

Boys aid in unique lamp selling campaign. J Elec 55:257 O 1 '25
Four fundamentals of sales development; campaign carried out by sales divisions of the National lamp works. P. B. Zimmerman. il System 46:446-7+ O '24
General Electric sales contests that look for continuous results. G. A. Nichols. Ptr Ink 125:3-4+ D 6 '23

ELECTRIC lamps—Merchandizing—*Continued*
Lamp publicity. il Electrician 93:267-8 S 5 '24
Replacement market must not obscure better sales outlets. R. A. Palmer. il Ptr Ink M 11:63-4+ O '25

Patents

Research as related to patents and patent litigation. H. C. Bierman. Elec J 21:369-73 Ag '24

See also Electric lamps, Tungsten—Patents

Testing

See Electric lamps, Tungsten—Testing

ELECTRIC lamps, Arc
Inclosed-arc lamp. L. B. Marks. diags Elec W 84:588-9 S 20 '24
Production of fluorescence and phosphorescence by radiations from the carbon arc lamp. W. S. Andrews. Gen Elec R 28:659-61 S '25
Über lichtquellen erhöhter flächenhelligkeit. E. Podszus. Elektrotech Zeit 45:523-5 My 22 '24
Year's progress in illumination, 1924-1925. Illum Eng Soc 20:692-700 S '25

See also Electric lamps, Mercury vapor; Electric lamps, Sodium-potassium vapor

ELECTRIC lamps, Floor
Change in design cuts costs and revives waning demand; floor lamp business of Hergi mfg. co. H. R. Simonds. il Iron Tr R 76: 1117+ Ap 30 '25

ELECTRIC lamps, Incandescent
Blue glass daylight lamps. il N E L A Bul 12:327 My '25
Distribution of incandescent lamps to the public through electric service companies is increasing. P. S. Millar. N E L A Bul 12: 180 Mr '25
Edison's first incandescent light. Sci Am 129: 400 D '23
Electric light extremes. il Sci Am 130:393 Je '24
Hybrid lighting systems questionable. O. F. Haas. Elec W 86:163-4 Jl 25 '25
Incandescent lamp. S. E. Doane. Elec W 84: 593-4 S 20 '24
Lamp developments in America. J: W. Howell. Elec W 85:395-6 F 21 '25
Lichtstärke der glühlampen bei gleich- und wechselstrombetrieb; abstract. H. Michalke. Elektrotech Zeit 45:121-2 F 14 '24
Presentation of John W. Howell, E. E. for bestowal of Edison medal. Stevens Ind 42: 30-4 Mr '25; Same. Am Inst E E J 44:309-11 Mr '25
Report of N.E.L.A. lamp committee. Elec W 85:1330-1 Je 20 '25
Über edelgas-ventilröhren. F. Schröter. diags Elektrotech Zeit 45:1061-2 O 2 '24
Year's progress in illumination. Illum Eng Soc 20:687-92 S '25

See also Electric lamps, Tungsten; Safety lamps, Electric

Manufacture

Incandescent lamp machinery. il Mach 29:969-70; 30:257-8 Ag. D '23
Philips electric lamp works; a large Dutch undertaking. il Elec R (Lond) 95:301-3 F 20 '25

Standards

Heavier lamp-sockets proposed. diags Soc Auto Eng J 15:275 O '24
Standardization and the part it has played in the development of the incandescent lamp. il Am Inst E E J 44:784-6 Jl '25

ELECTRIC lamps, Mercury vapor
Die analysen-quarzlampe. L. J. Busse. il Elektrotech Zeit 46:1185-7 Ag 6 '25
Constricted mercury arc as a source of light for photochemical work. G: S. Forbes and G: R. Harrison. Am Chem Soc J 47:2449-54 O '25
Fading lamps. O. R. Flynn. il Am Dyestuff Rep 12:837-43 N 19 '23
Lamps used in industrial cinematography. il diag Engineering 118:295-6 Ag 29 '24
Light emitted by tubes containing both neon and mercury vapor, along with the liquid metal. G. Claude. J Fr Inst 199:861-2 Je '25
Mercury-arc rectifiers and mercury-vapour lamps. J. A. Fleming. 100p Pitman '25
Output of radiation from the quartz mercury arc during the period after first striking. B. D. H. Watters. il Philos Mag 6th ser 48:527-34 S '24
Studies in the experimental technique of photochemistry. L. Reeve. J Phys Chem 29: 39-57 Ja '25
Studies in the experimental technique of photochemistry; the determination of the energy distribution and the total energy in the radiation from quartz mercury vapour lamps. R. G. Franklin, R. E. W. Maddison and L. Reeve. diags J Phys Chem 29:713-26 Je '25

ELECTRIC lamps, Neon
Distribution of luminosity throughout a potential cycle in a neon glow discharge lamp. E. Karrer and A. Poritsky. diags J Fr Inst 198:93-7 Jl '24
Neon—a new gas for electrical use. C. S. Treacy. Ry R 74:855 My 10 '24
La rectification de la lumière des tubes au néon. G. Claude. Génie Civil 86:343 Ap 4 '25
Relay control; an application of the neon lamp. J. Taylor and W. Stephenson. diags Electrician 94:145 F 6 '25
Some properties of neon tubes. B. N. Ghose. Phys R 25:66-8 Ja '25

See also Osglim lamp

ELECTRIC lamps, Portable
Portable lamps; their design and use. M. Luckiesh. 144p Dutton '24

ELECTRIC lamps, Sodium-potassium vapor
Potential gradient in the sodium-potassium vapour arc lamp. F. H. Newman. diag Philos Mag 6th ser 47:603-8 Mr '24

ELECTRIC lamps, Surveyors'
Automatic signal lamp devised for triangulation surveys. D. L. Parkhurst. il Eng N 93: 109 Jl 17 '24

ELECTRIC lamps, Tungsten
British standard specification for normal type tungsten filament electric lamps. 34p Pub. for British eng. standards assn. by C. Lockwood & son, London '24
Mazda lamp data. N E L A Bul 12:53 Ja '25
Sales of tungsten-filament lamps in the United States during 1923. Elec W 83:1045 My 24 '24
Temperature and brightness of tungsten lamps. W. E. Forsythe. Gen Elec R 26:830-4 D '23
Ten years of voltage standardization. M. D. Cooper. Gen Elec R 26:835-7 D '23

See also Automobiles—Lighting

Manufacture

Modern lamp making as seen at Nela park. C. W. Maedje. il diags N E L A Bul 12: 666-7 O '25

Patents

B.T.-H. co.'s tungsten filament patent. Electrician 92:331 Mr 14 '24
Electric lamp patents. Electrician 92:140 F 1 '24
Tungsten filament lamps; law lords continue hearing of important appeals. Electrician 93:704-5 D 19 '24

Testing

Lamp efficiency in life tests. J. F. Skogland and J. F. Meyer. Elec W 84:1302-4 D 20 '24

ELECTRIC lanterns
Comparative tests of oil and electric lanterns. Ry Age 78:1227 My 16 '25
Electric hand signaling lantern. il Ry Age 78:382 F 7 '25

ELECTRIC launches. See Electric boats

ELECTRIC layer. See Electric double layer

ELECTRIC leakage
Leakage flux between parallel pole-cores of circular cross-section. B. Hague. diags Inst E E J 61:1072-8 O '23; Discussion. 62:247-8 Mr '24
Separate leakage reactance of transformer windings. O. G. C. Dahl. il diags Am Inst E E J 44:735-41 Jl '25; Discussion. 44: 1132-42 O '25

See also Electric losses

ELECTRIC light
Development of electric light. H: Schroeder. il diags Sibley J 37:210-20 D '23
Stimulation of plant growth by means of electric lighting. V: A. Tiedjens. il Illum Eng Soc 19:1011-19 D '24

See also Electric lamps; Electric lighting

ELECTRIC light fixtures
Artistry in electric fittings. il Electrician 92: 100-1 Ja 25 '24
Colour and comfort, by John Gloag. Review. il Electrician 93:590 N 21 '24
Electricity in the home. W. C. Peet. il diags plans Am Arch 125:99-106 Ja 30 '24
Lighting at the Paris exposition. W. W. Kantack. il diags Am Arch 128:303-6 O 5 '25
Lighting fashions. il Electrician 95:366 S 25 '25
Modern luminaire design. A. L. Powell. il Elec W 84:1207-8 D 6 '24
Modern methods of artificial illumination. A. L. Powell. il diags Am Arch 125:133-8+ Ja 30 '24
Problem in the glassware industry. E. E. Whitehorne. Elec W 82:1294-5 D 22 '23
Sicherheitsfassung. diags Elektrotech Zeit 45: 1089 O 9 '24

See also Street lighting fixtures

Advertising

How pictures of installations help dealers in small towns. G: H. Wicker. il Ptr Ink M 10:47-8 Ja '25

Installation

Coupler for lowering heavy fixtures. H. M. Brown. il diag Elec W 85:412 F 21 '25

Manufacture

Making castings for lighting fixtures. H. R. Simonds. il Foundry 53:679-83 S 1 '25

Merchandizing

Campaign selling in a small city. L. B. Michaels. Elec W 85:310 F 7 '25
Daylight feature sells 11,449 kitchen units. Elec W 84:1268 D 13 '24
How 9,018 kitchen lighting units were sold in thirty days. Elec W 83:890-1 My 3 '24
Jobber in the kitchen light campaign. Elec W 83:452-3 Mr 1 '24
Kitchen lighting campaign that was successful. V. H. Moon. il J Elec 53:322-5 N 1 '24
Lighting and lighting fixtures. H. H. Courtright. J Elec 53:439-40 D 15 '24
New record established in sale of kitchen lighting units. M. L. Cummings, jr. J Elec 54:10-11 Ja 1 '25
Profitable commercial light campaign. A. C. Crandall. il Elec W 85:883 Ap 25 '25
Putting better illumination in Colorado kitchens. il J Elec 53:452 D 15 '24
Putting merchandising in the dealer's vocabulary. D. Hubbard. Ptr Ink 126:105-8+ F 28 '24
Seven thousand 150-watt kitchen lighting units sold in thirty days. il Elec W 82:1074-6 N 24 '23

ELECTRIC lighting
Better illumination with less wattage on L stations. E. E. Dorting. il Elec Ry J 63: 584 Ap 12 '24
Billion dollar business available; revenue possibilities in residence lighting. M. Luckiesh. Elec W 86:737-9 O 10 '25
British Empire exhibition, 1925: improvements in the electrical illumination. il Elec R (Lond) 96:519 Mr 27 '25; Electrician 94:365 Mr 27 '25
Consistently selling better lighting. S. W. Bishop. il J Elec 55:84-8 Ag 1 '25
Controlled adjustable illumination. il diag Elec R (Lond) 93:991-2 D 28 '23
Demonstrating the advantages of better light; Edison lighting institute. H. K. Lynn. il J Elec 54:200-1 Mr 15 '25
Development of electric lighting. E: P. Hyde. Elec W 84:587-8 S 20 '24
Edison lighting institute. il Manuf Rec 87:79 F 19 '25; Elec W 85:466-8 F 28 '25
Education in lighting on a new scale. W. Harrison. il Elec W 83:550-2 Mr 15 '24
Electric lighting at the British Empire exhibition. il diags Elec R (Lond) 95:532-4 O 10 '24
Electric lighting at the British Empire exhibition. H. T. Harrison. Illum Engr 17:131 Ag '24
Electric lights for inside and outside service at the mines. diags Coal Age 26:412-13 S 18 '24
Electric street lighting in rural areas. E: C. Lennox. Gas J (Lond) 172:38-40; Discussion. 40 O 7 '25
Electricity in decorative art and applied industry; Paris international exhibition. T. Rich. il Elec R (Lond) 97:524-6 O 2 '25
400,000,000 outlets are in prospect. M. Luckiesh. Elec W 86:851-2 O 24 '25
Furtherance of good lighting by American central stations. J: W. Lieb. Illum Eng Soc 19: 622-37 S '24
Future developments in electric lighting. Illum Engr 17:91 Je '24
Good lighting a necessity, not a luxury. N. Macbeth. Elec W 85:302 F 7 '25
High-intensity illumination; McGraw-Hill company's offices and plant. il diags Elec W 84:943-9 N 1 '24
How to sell illumination. C. R. Tracy. il Elec W 86:787-9 O 17 '25
Hybrid lighting systems questionable. O. F. Haas. Elec W 86:163-4 Jl 25 '25
Illumination opportunities. N. Macbeth. il Elec W 84:1351-4 D 27 '24
Increasing the residential lighting load. il Elec W 86:892-6 O 31 '25
Initial home-lighting campaign. W. T. Ryan. Elec W 85:1088 My 23 '25
Intensive lighting development discussed at salesmanship conferences. Elec R (Lond) 95: 500 O 3 '24; Electrician 93:379-80 O 3 '24
Die jahresversammlung der Deutschen beleuchtungstechnischen gesellschaft E. V. in Jena 1924. Elektrotech Zeit 46:19-21 Ja 1 '25
Light—citizen and salesman. R. A. Palmer. il Nation's Business 13:42-4+ S '25
Light, photometry and illuminating engineering. W: E: Barrows. 412p McGraw-Hill '25
Lighting and brightening the world. J: Liston. Am Ind 25:33-5 F '25
Lighting developments in 1923. G. H. Stickney. il Elec W 83:38-40 Ja 5 '24
Lighting offers large profitable load; reports of N.E.L.A. committees. Elec W 85:1354-5 Je 20 '25
Lighting service an asset. C. B. Regar and others. Illum Eng Soc 20:871-903 O '25
Lighting service department. D. J. Finn. Elec W 86:943-5 N 7 '25
Lighting statistics of representative urban and suburban homes. N. D. MacDonald. Am Inst E E J 43:465-6 My '24
National industrial lighting activity. J. F. Becker. Elec W 85:1407-8 Je 27 '25
Need for more definite recommendations for lighting the home. Elec W 85:350-1, 563 F 14, Mr 14, '25
Physiologische betrachtungen zur beurteilung von beleuchtungsanlagen. L. Schneider. Elektrotech Zeit 45:1062-4 O 2 '24
Possibilities of residence lighting; report of N.E.L.A. committee. Elec W 85:1319-20 Je 20 '25
Progress in electrical illumination. C. W. Sully. Illum Engr 17:104-6 Je '24
Public supply for filament lighting. J. Henderson. diags Elec R (Lond) 94:608-10 Ap 18 '24

ELECTRIC lighting—*Continued*
Relighting Atlantic City's boardwalk. T. P. Brown. il diags Gen Elec R 27:803-9 D '24
Residence lighting; report of committee of Pacific coast electrical association. J Elec 52:408-9 Je 1 '24
Revenue from commercial lighting consumers. Elec W 85:1086-7 My 23 '25
Some developments in the electrical industry during 1923. J: Liston. il diags Gen Elec R 27:53-60 Ja '24
Some developments in the electrical industry during 1924. J: Liston. il Gen Elec R 28:50-8 Ja' 25
Some notes on traction lighting by electricity. J. F. Caine and E. A. Marx, jr. diags Illum Engr 17:19-25; Discussion. 25-8 Ja '24
Staging a successful illumination sales campaign. H. H. Allison. il J Elec 52:165-8 Mr 1 '24
V D E regeln zur bewertung von licht, lampen und beleuchtung. Elektrotech Zeit 46: 471-2 Mr 26 '25
Voltage variation effect in incandescent lamp illumination. A. H. Kehoe. il Am Inst E E J 43:549-50 Je '24
Wonder lighting at Wembley. il Electrician 92:628-9 My 23 '24
Year's progress in illumination. Am Inst E E J 43:63-4 Ja '24
Year's progress in lighting; report of A. I.E.E. committee. il Am Inst E E J 44:1116-21 O '25

See also Art galleries and museums—Lighting; Automobiles—Lighting; Bowling alleys—Lighting; Car lighting; Church lighting; Daylight, Artificial; Department stores—Lighting; Drafting rooms—Lighting; Electric lamps; Electric light fixtures; Electric meters; Electric plants; Electric signs; Electric wiring; Electricity on the farm; Factories—Lighting; Farm lighting plants; Foundries—Lighting; Glare; Iron works—Lighting; Kitchens—Lighting; Lighting; Locomotive headlights; Machine shops—Lighting; Motor buses—Lighting; Moving picture studios—Lighting; Office buildings—Lighting; Photometry; Post office buildings—Lighting; Power plants—Lighting; Printing offices—Lighting; Railroads—Shops—Lighting; Railroads—Yards—Lighting; Reflectors; Roads—Lighting; Roundhouses—Lighting; Schoolhouses—Lighting; Searchlights; Show windows—Lighting; Stage lighting; Steel works—Lighting; Store windows—Lighting; Street lighting; Textile mills—Lighting; Theaters—Lighting; *also* International commission of illumination

Cost

Charts shows low cost of using electric light. Elec W 83:195 Ja 26 '24
Method for using unit costs in installing systems of lighting. D. H. Tuck. il Ind Eng 82:329-32+ Jl '24; Same. Illum Eng Soc 19: 411-19; Discussion. 419-23 My '24

Rates

See Electric rates

Study and teaching

Modern lighting studied in Cass technical high school. il Elec W 84:1114 N 22 '24
Teaching the fundamentals of better lighting; two lighting schools conducted by the Pacific Coast electrical association. J Elec 54:284-5 Ap 15 '25

ELECTRIC lighting, Decorative
Evolution of spectacular illumination. W. D. Ryan. il Elec W 84:590-3 S 20 '24
Pageant street lighting. S: G. Hibben. il diag plan Illum Eng Soc 18:938-43; Discussion. 943-8 D '23

ELECTRIC lighting sets
Motor-licht-aggregat; Deutz-licht. il diag Elektrotech Zeit 45:45 Ja 17 '24

See also Farm lighting plants

ELECTRIC lines
Aërial cables versus open wiring. Elec W 85: 205+ Ja 24 '25
Bewegliche ausleger an hochspannungsgestängen. W. Cramer. il diag Elektrotech Zeit 45:717-19 Jl 3 '24
Conducting a distribution survey. E. G. Nichols and J. R. Eyre. Elec W 84:781-4, 839-40 O 11-18 '24
Distribution line practise of the San Joaquin light and power corporation. L. J. Moore and H. H. Minor. il diags Am Inst E E J 44:1201-8 N '25
Economic studies of transmission line design with particular reference to the mechanical features. C. B. Carlson. Am Inst E E J 43: 907-8 O '24
Electrical design of overhead power transmission lines. W: T. Taylor and R. E. Neale. 273p Van Nostrand '24
Engineering details of the transmission lines in the United States at and above 44,000 volts; chart. Elec W 85:supp Ja 3 '25; Discussion. 203 Ja 24 '25
Experience on the road; a puzzling high-voltage disturbance. E. L. Doty. Elec J 22:124 Mr '25
Extra-high-pressure transmission lines. R. B. Matthews. Elec R (Lond) 93:851-2, 887-8, 931-2, 967-9 D 7-28 '23
Freileitungen an hängeisolatoren. G. Markt. il Elektrotech Zeit 45:620-2 Je 12 '24
High-tension transmission. il Elec W 85:56 Ja 3 '25
High-tension transmission lines. E. V. Pannell. Engineer 137:272-3, 300-2, 328-31, 352-4, 378-9, 418-19 Mr 14-Ap 18 '24
High voltage transmission lines; experience in mountainous districts. K. Usbeck. diags Electrician 94:63 Ja 16 '25
Important overhead systems report of N.E.L.A. Elec W 83:1061-2 My 24 '24
Limitations of output of a power system involving long transmission lines. E. B. Shand. diags Am Inst E E J 43:219-29 Mr '24
Magneto-mechanical loads on bus supports. L. N. Robinson. diags Am Inst E E J 42: 1063-7 O '23; Discussion. 43:361-4 Ap '24
Mechanical characteristics of transmission lines. L. E. Imlay. il Elec J 22:3-8, 52-7, 125-9, 187-90, 225-9, 356-61, 502-7, 562-5, 596-604 Ja-My, Jl, O-D '25
Mechanical design of overhead electrical transmission lines. E. T. Painton. 274p Van Nostrand '25
Missouri river crossing for 13,200 volts. il Elec W 83:835 Ap 26 '24
Modern high-tension power transmission lines. W. Dreyer. il Eng N 92:8-10 Ja 3 '24
N. & W. line trouble record analyzed. Elec Ry J 62:861-3 N 17 '23
New type of high-tension network; an interconnecting system for the supply of electric power over large areas. P. H. Thomas. map Am Inst E E J 43:610-18 Jl '24; Discussion. 44:58-65 Ja '25
110kv. transmission line for Oak Grove development of Portland railway, light and power company. H. R. Wakeman and W. H. Lines. Am Inst E E J 42:891-3 S '23; Discussion. 43:257-8 Mr '24
Overhead construction and operation; report of committee of Pacific coast electrical association. il J Elec 52:436-7 Je 1 '24
Overhead electric power transmission; elements of design and economics. W: T. Taylor. Elec R (Lond) 94:646-7, 721-2 Ap 25-My 2 '24
Overhead systems bureau report on meeting presented. J Elec 54:190 Mr 1 '25
Power transmission lines; aspects of their design. W: T. Taylor. Elec R (Lond) 94: 780-2, 907-9, 979-81; 95:349-51, 385-7, 462-3, 515-16, 551-2, 647-8, 711-13, 949-52; 96:888-9 My 16, Je 6-13, S 5-12, 26-O 10, 31-N 7, D 19 '24, Je 5 '25
Propose 6,153-ft. span for power line; Cushman power project bridging Narrows of Puget Sound. Eng N 92:824 My 8 '24
Report of the N.E.L.A. overhead systems committee. Elec W 85:1342-3 Je 20 '25

ELECTRIC lines—*Continued*
Resolutions of Paris high-tension conference. Elec W 82:1288 D 22 '23
Rural distribution of electricity. W. Fennell. Elec R (Lond) 95:564-5 O 17 '24
Sectionalizing of high-voltage lines; automatic apparatus recently developed by the Alabama power company. G: H. Middlemiss. il diag Elec W 84:1363-5 D 27 '24
Some properties of simple electric conducting net-works. A. E. Kennelly. Massachusetts Inst Tech Bul v 60, no 51:171-89 [bibliog. p. 188-9] '24
Southern California Edison company's 220-kv. system. H. Michener and others. Elec W 84: 937-8 N 1 '24
Stability of long transmission lines. C. D. Gibbs. Elec W 85:143-5 Ja 17 '25
Survey of heavy power work lines with future possibilities; abstracts. J. F. H. Colyer. Electrician 94:34 Ja 9 '25; Elec R (Lond) 96: 237-8 F 6 '25
Transmission line design. G: S. Smith. Washington (State) U Eng Exp Sta Bul 29: 1-45 '24
Transmission-line sag and span curves. E. G. Allen. Elec W 83:781-2 Ap 19 '24
Transmission practices and developments. A. E. Silver. il Elec W 85:1207-10 Je 6 '25
Transmission practices tabulated. il Elec W 85:52 Ja 3 '25
Die verwendung des aluminiums für hochspannungsfreileitungen. M. Neustätter. map Elektrotech Zeit (special no.) 45:6-8 Ag 28 '24

See also Electric cables; Electric conduits; Electric fuses; Electric plants—Interconnection; Electric protective apparatus; Electric railroads; Electric railroads—Construction; Electric service, Rural; Electric substations; Electric transmission; Electric utilities; Electric wire; Electric wiring; Electrolytic corrosion; Hydroelectric plants; Overvoltage (electric lines); Poles; Telegraph lines; Telephone lines; Trackless trolley; *also* International conference on large high tension electric systems

Bird guards

Avoiding flashovers on 220-kv. transmission lines; bird guards furnish a solution of problem. G. H. Stockbridge. il Elec W 85:611-12 Mr 21 '25

Clearance

Clearances of crossings over railways. W. C. Wagner and J. B. Straw. Elec W 85:1266-7 Je 13 '25

Construction

Acquiring and preparing right-of-way. M. H. Wagner. diag Elec W 84:1044-6 N 15 '24
Agreements and permits of pole-line construction. Elec W 84:527 S 13 '24
Construction methods used in building 132,000-volt line. G. W. Chamberlin. il Elec W 85: 462-3 F 28 '25
Construction organization for building transmission line. O. Davidson. il Eng N 93:69-70 Jl 10 '24
Design for 110,000-volt line. H. T. Pierce. il maps Elec W 84:506-10 S 13 '24
Factors governing underground construction; report of Pacific coast electrical association. J Elec 54:450-1 Je 1 '25
Installation and testing of 66-kv. cable. il map Elec W 83:667-9 Ap 5 '24
Line construction cost keeping. F. H. Miller and F. W. Fackle. Elec W 84:1349-51 D 27 '24
Machine building of transmission line. H. Cole. il Elec W 84:670-3 S 27 '24
Mechanical electrical construction of modern power transmission lines—insulators for high-voltage lines. C. B. Carlson and W. R. Battey. il diags Am Inst E E J 42:1126-8 N '23; Abstract. Elec W 82:801 O 20 '23; Discussion. Am Inst E E J 43:256-7 Mr '24
Mississippi river crossing of Crystal City transmission line. H. W. Eales and E. Ettlinger. il diags map plans Am Inst E E J 44:1106-15 O '25; Discussion. 44:1247-8 N '25
Overhead distribution construction; standardized practice as developed and used by the West Penn power company, Pittsburgh. Elec W 83:97, 144-5, 194, 241, 288, 339, 387, 436, 484, 533, 580-1, 630, 677-8, 727-8, 783-4, 836, 886-7, 970, 1010, 1136, 1190, 1239, 1288, 1336 Ja 12-My 17, 31-Je 28 '24
Progress chart for transmission line. Elec W 86:570 S 19 '25
Report of Pacific coast electrical association sub-committee on aerial cable construction. il J Elec 52:443-5 Je 1 '24
Rural service in Ontario. L. W. W. Morrow. il Elec W 86:790-4 O 17 '25
Servicing rural territory. J. W. Carpenter. il map Elec W 85:929-30 My 2 '25
Stringing transmission cable. O. Davidson. il Elec W 83:819-21 Ap 26 '24
Transmission line surveys and field engineering. O. Davidson. Eng N 92:808-9 My 8 '24
Transmission line work aided by aerial survey. F. A. Allner and J. R. Baker. map Eng N 92:360-3 F 28 '24
Utility construction devices. W. S. Barstow. il Elec W 83:956-7 My 10 '24

See also Electric lines—Poles and towers

Construction equipment

Derrick truck for maximum lift of 5,000 lb. il Elec W 86:74 Jl 11 '25
Poles set with A-frame derrick. il Elec Ry J 65:156 Ja 24 '25
Simple and inexpensive pole trailer easily made. A. L. Day. il diags J Elec 54:287 Ap 15 '25

Cost of construction

Accurate cost estimates facilitated. R. A. Miller. Elec W 86:319 Ag 15 '25
Actual costs of transmission line and substation. il diags plan Elec W 83:1324-7 Je 28 '24
Checking efficiency by man-month output. R. E. Cunningham. Elec W 85:620 Mr 21 '25
Construction estimates and their purpose. R. J. Davidson. Elec W 83:676-7 Ap 5 '24
Cost data on a 6,600-volt rural line. J. C. Robinson. il diags Elec W 84:730-3 O 4 '24
Cost keeping for line construction. R. A. Miller. Elec W 86:73-4+ Jl 11 '25
Cost of aërial cable construction. F. A. Westbrook. Elec W 84:1310-11 D 20 '24
Cost of pole setting by machine. R. N. Carter il Elec W 86:507-10 S 12 '25
Distribution estimates. Elec W 84:420 Ag 30 '24
Distribution material costs in New England. Elec W 82:973 N 10 '23
Estimating electrical construction work. R. L. Kirk. diag Elec W 82:1174-5 D 8 '23
Forecasting line extension profits. W. A. Forbush. Elec W 86:453-4 S 5 '25
Itemized costs of distribution equipment. Elec W 83:291 F 9 '24
Line and substation costs. diags plans Elec W 82:1159-63 D 8 '23
Maywood street-lighting system; costs. F. Woodmansee. il diags plans Elec W 84:256-61 Ag 9 '24
Mechanical characteristics of transmission lines. L. E. Imlay. Elec J 22:562-5 N '25
Steel-pole transmission line construction. N. B. Hinson. il Elec W 83:968 My 10 '24
Transmission-line cost data. Elec W 84:522-3 S 13 '24

Damage from storms

Blizzards fail against mountain power line. G. C. Heckman. il map J Elec 55:210-12 S 15 '25
Gewitterstörungen und blitzschutz. A. Matthias. il diags maps Elektrotech Zeit 46: 873-80 Je 11 '25
Tornado spares transmission lines. il map Elec W 85:681-2 Mr 28 '25

Damage from trees

See Electric lines—Tree problem

ELECTRIC lines—*Continued*

Esthetic aspects

Aesthetic considerations affecting power development. E. H. Bennett. Ann Am Acad 118:116-19 Mr '25

Neat high-voltage lines through cities. il Elec W 83:193 Ja 26 '24

Inductive interference

Abgleichverfahren zur beseitigung der induktionsstörungen. K. Dohmen and K. Kupfmüller. il Elektrotech Zeit 45:266-9 Mr 27 '24

Allgemeine gesichtspunkte über den einfluss von starkstromleitungen auf fernmeldeleitungen. O. Brauns. Elektrotech Zeit 46:1350-1 S 3 '25

Beeinflussung eines lichtnetzes durch wechselstrombahnbetrieb. Jäger. diags Elektrotech Zeit 45:329-31 Ap 10 '24

Beeinflussung von fernmeldeleitungen (FM) durch hochspannungsanlagen (H). Jäger. il diags Elektrotech Zeit 45:417-28 My 1 '24

Die bei elektrischen bahnen angewandten mittel zur verhütung der schwachstromstörungen durch hochspannungsfahrleitungen. H. W. Schuler. diags Elektrotech Zeit 46:1361-6 S 3 '25

Beitrag zur angenäherten berechnung der von drehstrom-hochspannungsleitungen auf parallelen fernmeldeleitungen elektrostatisch induzierten leerlaufspannungen. G. Eggeling. Elektrotech Zeit 46:1297-8 Ag 27 '25

Die berechnung der auf betriebsfernsprechleitungen an drehstrom-hochspannungsgestängen induzierten gefährdungsspannungen. G. Eggeling. Elektrotech Zeit 46:368-74 Mr 12 '25

Communication circuits; inductive disturbance. A. Holmgren. diags Electrician 92: 420-1 Ap 4 '24

Effect on metal-covered telephone cables of adjacent power lines. Elec W 83:139-40 Ja 19 '24

Einwirkungen von gleichrichteranlagen auf fernsprechleitungen. A. Zastrow and E. R. Benda. diags Elektrotech Zeit 46:1478-81 S 24 '25

Die erde als wechselstromleiter. O: Mayr. diags Elektrotech Zeit 46:1352-5 S 3 '25

Fluchtlinientafeln zur berechnung der beeinflussung von fernmeldelinien durch drehstromleitungen. H. Böhm. Elektrotech Zeit 46:836-9 Je 4 '25

General review of the inductive interference problem. B. McCollum. U S Bur Stand misc pub 58:28-40; Discussion. 40-8 '24

How small ground-return telephone companies have sometimes interpreted help accorded them as setting up a principle. W. J. Canada. Elec W 82:1221 D 15 '23

Induction from street lighting circuits; effects on telephone circuits. R. G. McCurdy. diags Am Inst E E J 44:1088-94 O '25

Inductive interference with communication circuits. A. Russell. Inst E E J 62:941-6 N '24

Inductive troubles between transmission circuits and radio sets. diag Elec W 82:1122-3 D 1 '23

Induktionswirkung von höheren harmonischen eines starkstromes auf fernsprechleitungen. A. Zastrow. Elektrotech Zeit 46:1367-9 S 3 '25

Investigation of power circuit interference in radio; report of radio subcommittee of N.E.L.A. N E L A Bul 11:511-13 Ag '24

Joint research on inductive coordination. W. V. Lovell. N E L A Bul 12:536-7 Ag '25

K-m chart for computing electromagnetic induction between an aerial line and neighboring circuits. R. Mitsuda and K. Kasai. diags Gen Elec R 28:290-7 My '25

Mutual rights and duties of utilities on the highways. D: F. Simpson. Elec W 83: 1091-5 My 24 '24

Power circuit interference with telegraphs and telephones. S. C. Bartholomew. diags Inst E E J 62:817-58 [bibliog. p. 855-7] O '24; Abstracts. Elec R (Lond) 94:636-8, 671-3 Ap 18-25 '24; Electrician 92:482-3+ Ap 18 '24; Discussion. Inst E E J 62:858-78; 63:389-96 O '24, Ap '25; Elec R (Lond) 94:943-4 Je 6 '24

Service car arranged for tracing radio troubles. W. R. Cornell. il J Elec 55:94 Ag 1 '25

Transmission lines and interference with radio. S. Kruse. Elec W 85:1080 My 23 '25

Verband deutscher elektrotechniker; kommission für schwachstrombeeinflussung. diags Elektrotech Zeit 46:818-23, 1126-8 My 28, Jl 23 '25

Work of the Inductive co-ordination bureau of the Pacific coast electrical association. J Elec 54:300-1 Ap 15 '25

Inspection

Inspection of high-tension apparatus. Elec W 83:388 F 23 '24

Inspection of tower and pole lines. Elec W 83:482-3 Mr 8 '24

Systematic inspection of pole lines. L. I. Bates. Elec W 84:1313-14 D 20 '24

Location

Location and right of way. V. D. Elliott. il Am Inst E E J 43:1028-30 N '24

See also Electric lines—Esthetic aspects

Maintenance and repair

Atomizer used for washing insulators. K. B. Ayers. il Elec W 85:258 Ja 31 '25

Break-downs in the field; report of committee of Pacific coast electrical association. J Elec 52:419-20 Je 1 '24

Changing insulators on energized line. T. B. Bash. il Elec W 84:271 Ag 9 '24

Flugzeuge im dienste der elektrizitätswerke. E. V. Knüpffer. il Elektrotech Zeit 46: 267-8 F 19 '25

Handling storm wreckage. Elec W 85:580 Mr 14 '25

Handling trouble on the Detroit system. H. G. Granger. il Elec W 83:137-9 Ja 19 '24

Novel line truck for small road. il Elec Ry J 63:626-7 Ap 19 '24

Reconstruction of 60-kv. transmission tower line. H. L. Sharp. il Elec W 83:433-4 Mr 1 '24

Restoring service after trouble on a power system. C. M. King. Power 60:91-2 Jl 15 '24

System maintenance and inspection. J. E. Jordon. il Elec W 82:1319-21 D 29 '23

Tower wagons for street lighting service. il diag plan Elec W 84:1163 N 29 '24

Tractor aids in mountain repair work during winter snows. il J Elec 52:207 Mr 15 '24

Trouble-shooting car with aluminum body. G. G. Post. il diag Elec W 85:354-5 F 14 '25

See also Electric distribution—Grounds and faults; Electric engineering—Safety devices and measures; Electric railroads—Maintenance and repair; Linemen's equipment

Maps

Overhead distribution maps for central stations. H. S. Chartier. Elec W 84:1365-6 D 27 '24

Moving

Moving 13,000-volt line while energized. R. A. Miller. il Elec W 85:255, 257 Ja 31 '25

Poles and towers

Beitrag zur berechnung von tragmasten für die oberleitung elektrischer hauptbahnen. W. Müller. il diags Elektrotech Zeit 46:413-15 Mr 19 '25

Berechnung von mastfundamenten. O. Stötzner. Elektrotech Zeit 45:1346-8 D 4 '24

Center poles for narrow street. il diag plan Elec Ry J 63:847-8 My 31 '24

Cheap concrete setting for poles. S. L. Foster. Elec Ry J 65:472 Mr 21 '25

Cleaning up streets in Roanoke. il Elec W 83:1009 My 17 '24

Comparative data on towers for high tension transmission. W. Dreyer. il Eng N 92:188-9 Ja 31 '24

ELECTRIC lines—Poles and towers—*Cont.*
Determination of pole sizes. J. H. Mathews. Elec W 83:1173-6 Je 7 '24; Discussion. 83: 1236; 84:170 Je 14, Jl 26 '24
Durability of reset distribution poles. G: M. Hunt. Elec W 83:1288-9 Je 21 '24
Eliminating speculation in cross-arms. Elec W 85:429-30 F 21 '25
Erecting 45 poles per day with eight men. B. E. Ellsworth. diag Elec W 86:71 Jl 11 '25
Erecting seventy-five poles per day with five men. J. C. Dodds. diags Elec W 84:1362 D 27 '24
Erecting 75-ft. towers in halves. W. R. McCann. il diags Elec W 83:730 Ap 12 '24
Erecting towers assembled on ground. il diags Elec W 83:369-72 F 23 '24
Experience with concrete poles. J. M. Brown. il Elec W 85:499-502, 1081-3 Mr 7, My 23 '25
Hard-pine cross-arms cost $0.81 apiece to make. J. M. Stuart. Elec W 83:628-9 Mr 29 '24
High-tension transmission lines. E. V. Pannell. diags Engineer 137:352-4, 378-9 Ap 4-11 '24
Installation of Malone tower anchor. M. J. Idail and F. R. Weller. il diags Elec W 85: 457-9 F 28 '25
Insulation design of anchors and tower supports for 110,000-volt, 4427-foot span over Carquinez Straits. L. J. Corbett. il diags plan Am Inst E E J 42:887-90 S '23; Discussion. 43:258-9 Mr '24
Joint pole construction in southern California. Elec W 83:1134 My 31 '24
Joint use of poles by utilities. A. E. Knowlton. diags Elec W 84:1203-6 D 6 '24
Keeping systematic pole records. Elec W 83: 1337 Je 28 '24
Latticed steel used for heavy duty terminal poles. il J Elec 54:16 Ja 1 '25
Mechanical characteristics of transmission lines. L. E. Imlay. il diags Elec J 22:356-61, 402-7, 452-5 Jl-S '25
Method of erecting towers for power line. il diags Eng & Contr (W W) 61:800-1 Ap 9 '24
Mississippi river crossing of Crystal City transmission line. H. W. Eales and E. Ettlinger. il diags map plans Am Inst E E J 44:1106-15 O '25; Discussion. 44:1247-8 N '25
Modern pole-treating plant fills entire need. D. P. Mason. il diags J Elec 54:324-6 My 1 '25
Mutual service on forest products. A. F. Crosby. Elec W 84:549-50 S 13 '24
One tower a day with eight men. O. Davidson. il Elec W 82:1325-6 D 29 '23
Osborne (Adelaide) power station and transmission system. il plan Engineer 140:158-60, 166 Ag 14 '25
Overhead distribution construction; standardized practice as developed and used by the West Penn power company, Pittsburgh. Elec W 83:97, 144-5, 194, 241, 288, 339, 387, 436, 484, 1288, 1336 Ja 12-Mr 8, Je 21-28 '24
Pole holes dug for $1.47 with boring machine. il Elec W 83:782-3 Ap 19 '24
Pole shields reduce interruptions by squirrels. H. B. Grier. Elec W 84:844-5 O 18 '24
Power transmission lines; aspects of their design. W: T. Taylor. Elec R (Lond) 95: 462-3, 515-17, 551-2, 647-8, 711-13, 949-52; 96:888-9 S 26-O 10, 31-N 7, D 19 '24, Je 5 '25
Raising 45-ft. tower 25 ft. to clear obstructions. R. E. Curtis. il Elec W 84:173-4 Jl 26 '24
Recent northwestern construction. il J Elec 54:177 Mr 1 '25
Rechnungsbeitrag zu den mit mastfundamenten vom reichspostamt ausgeführten versuchen. O. Stötzner. diags Elektrotech Zeit 45:449-50 My 8 '24
Remedies for tower-footing corrosion. E. H. Steele. Elec W 85:880-1 Ap 25 '25
Report of Pacific coast electrical association sub-committee on substitutes for wood poles. il J Elec 52:438-43 Je 1 '24
Results of preservative paint tests. Elec W 86:751 O 10 '25
Setting poles at a cost of $4.48 apiece. J. K. Himes. il Elec W 82:1072 N 24 '23
Simple and inexpensive pole trailer easily made. A. L. Day. il diags J Elec 54:287 Ap 15 '25
Special feature in the design of transmission tower lines as imposed by electrical conditions. W. Dreyer. il diags Am Inst E E J 42:1117-20 N '23; Abstract. Elec W 82:799-803 O 20 '23; Discussion. Am Inst E E J 43: 256-7 Mr '24
Speeding pole setting in San Francisco. S. L. Foster. diags Elec Ry J 66:91-3 Jl 18 '25
Standardization of telegraph, telephone and transmission line poles. Ry R 76:323 F 14 '25
Standardized steel-tower lines. F: L. Dole. Elec W 85:123-4 Ja 10 '25
Steel-concrete poles for transmission lines; the Stobie pole. il diag Elec R (Lond) 97: 453-5 S 18 '25
Steel poles improve street appearance. il Elec Ry J 63:59 Ja 12 '24
Steel poles safeguard line operation. il Iron Tr R 76:1580 Je 18 '25
Steel towers dot Pacific coast. il Iron Tr R 76:687-9 Mr 12 '25
Steel towers for canal crossing span. il Elec W 85:1223 Je 6 '25
Swedish methods of impregnating poles. E. Hedenlund. il Elec W 83:373-5 F 23 '24
Testing and repairing poles on transmission line. J. H. Siegfried. il Elec W 82:1021 N 17 '23
Testing methods employed on transmission towers. C. H. Tallant. il diags J Elec 55: 91-3 Ag 1 '25
Towers raised 35 ft. to clear tramway. H. S. Brubaker. il Elec W 83:1189 Je 7 '24
Transmission line construction in crossing mountain ranges. M. T. Crawford. il Am Inst E E J 42:1121-5 N '23; Abstract. Elec W 82:801-2 O 20 '23; Discussion. Am Inst E E J 43:257-8 Mr '24
Transmission-line pole nearly wrecked by woodpeckers. il J Elec 54:366 My 15 '25
Transmission-line tower design chart. H. L. Sharp. Elec W 85:204-5 Ja 24 '25
Transmission tower erection. diag Eng & Contr (G C) 64:670 S 16 '25
Transmission towers of high-strength steel. H. G. Sharp. Eng N 94:330 F 19 '25
Two-circuit pole adapted to three circuits. diags Elec W 83:1237 Je 14 '24
Unusual method of setting poles in Norway. M. Henriod. diag Elec W 85:154 Ja 17 '25; Same. Eng & Contr (Ry) 63:599 Mr 18 '25
Die verwendung der mit teeröl getränkten maste in hochspannungsanlagen. G. Schmidt. Elektrotech Zeit 46:335 Mr 5 '25
Wood poles to be standardized. Aera 13:1394 Mr '25
Wood poles used successfully for long-span service. A. S. Glasgow. il diags J Elec 54: 288-9 Ap 15 '25
Wooden-pole construction used on 165-kv. line. Elec W 82:973 N 10 '23
Wooden pole towers for long-span construction. K. B. Ayers. il diags Elec W 84:114-15 Jl 19 '24

See also Pole setting machines

Protection

Protecting lines against salt fogs and dust. W. R. Van Bokkelen. il diag Elec W 85:1028-9 My 16 '25

See also Electric protective apparatus; Lightning arresters

Sleet problem

Prevention of sleet trouble on high-tension lines. G: S. Diehl. il Elec W 83:192-3 Ja 26 '24
Sleet and ice troubles on transmission lines in New England. C. R. Oliver. il diag map Am Inst E E J 44:1171-6; Discussion. 1176-7 N '25
Tests for melting sleet on transmission lines. L. W. Wyss. il Elec W 86:466 S 5 '25

ELECTRIC lines—*Continued*

Specifications

Outline of specifications for overhead transmission system. Am Arch 125:sup16+ Ja 30 '24

Standards

Standardization line of construction. P. F. Hodgkins. diag Elec W 83:1240-1 Je 14 '24

Tables, calculations, etc.

Beitrag zur leitungsberechnung. C. F. Weiland. Elektrotech Zeit 45:208-10 Mr 13 '24

Calculation of the electrical problems of transmission by underground cables. D. M. Simons. diag Elec J 22:366-84 [bibliog. p.382-4] Ag '25

Calculations for transmission lines. R. G. Hornberger. diags Elec W 85:965-8 My 9 '25; Correction. 86:120 Jl 18 '25

Chart simplifies distribution line calculations J. C. Carey and C. V. Fairchild. il diag J Elec 55:60-1 Jl 15 '25

Circle diagram for long lines. P. H. Thomas. diags Elec W 86:899-902 O 31 '25

Computing tension in transmission lines. E. S. Thayer. Elec W 84:72-3 Jl 12 '24

Constant potential transmission line diagram. F. G. Baum. diags Elec W 86:409-10 Ag 29 '25

Durchhang von freileitungen an schweren abspannisolatorenketten. A. Sengel. Elektrotech Zeit 45:394-7 Ap 24 '24

Die erde als wechselstromleiter. O: Mayr. diags Elektrotech Zeit 46:1352-5, 1436-40 S 3, 17 '25

Freileitungen an verschieden hohen stützpunkten. A. Sengel. Elektrotech Zeit 45:185-6 Mr 6 '24

Mechanical characteristics of transmission lines. L. E. Imlay. il Elec J 22:53-7, 125-9, 502-7 F-Mr, O '25

Mississippi river crossing of Crystal City transmission line. H. W. Eales and E. Ettlinger. il diags map plans Am Inst E E J 44:1106-15 O '25; Discussion. 44:1247-8 N '25

Neues verfahren zur berechnung der seildurchhänge. K. Bittler. diags Elektrotech Zeit 46:1225-8 Ag 13 '25

Overhead electric power transmission line spans. W: T. Taylor. Elec R (Lond) 97: 403-4 S 11 '25

Power system transients. V. Bush and R. D. Booth. Am Inst E E J 44:229-40 Mr '25; Discussion. 44:766-71 Jl '25

Rasche berechnung einfacher drehstromleitungen. K. de Koning. Elektrotech Zeit 46: 418-20 Mr 19 '25

Reducing inductance on adjacent transmission circuits. H. B. Dwight. diags Elec W 83:89-90 Ja 12 '24

Regulator settings for long lines. L. F. Woodruff. Elec W 84:411-12, 460-4 Ag 30, S 6 '24

Tables of transmission line constants. D. D. Ewing. (Eng. exp. sta. bul. 14) 32p Purdue univ., Lafayette, Ind. '23

Transmission line formulas. H. B. Dwight. 2d ed., rev. and enl. 216p Van Nostrand '25

Vector diagrams for long lines. E. A. Loew. Elec W 83:477-80 Mr 8 '24

See also Short circuits—Calculating board

Testing

Corona loss tests on the 202-mile 60-cycle 220-kv. Pitt-Vaca transmission line of the Pacific gas and electric company. R. Wilkins. diags Am Inst E E J 43:1109-16 D '24; Discussion. 44:513-22 My '25

Locating defective insulators. G: A. Iler. il Elec W 86:257-60 Ag 8 '25

Tree problem

Dayton company policy on tree trimming. O. H. Hutchings. Elec W 83:532-3 Mr 15 '24

Les dommages causés par les arbres aux réseaux de distribution électrique. A. Mestre. Génie Civil 87:155-6 Ag 15 '25

California

Edison company to start work on new 220-kv. transmission line J Elec 55:185 S 1 '25

Interconnected transmission system of California. W. G. Vincent, jr. il diags maps J Elec 54:564-75 Je 15 '25

New high-tension power line completed and put into service in northern California. il J Elec 54:18 Ja 1 '25

Transmission at 220 kv. on the Southern California Edison system; a symposium. H. Michener and others. il diags Am Inst E E J 43:901-8, 1025-30 O-N '24; Discussion. 44: 510-13 My '25

Transmission system of the Southern California Edison company. H. A. Barre. il map Elec J 22:257-60 Je '25

Europe

Electrical distribution systems in Europe. B. G. Jamieson. il map Power Pl Eng 28:291-4 Mr 1 '24

France

Les lignes électriques a très hautes tensions. F. Drouin. il diags map Génie Civil 83:393-8, 421-4 O 27-N 3 '23

Le nouveau régime des servitudes légales en matière d'installation des réseaux électriques. A. Mestre. Génie Civil 87:333-4 O 17 '25

Les refus de permissions de voirie pour l'établissement des lignes électriques. A. Mestre. Génie Civil 84:254-6 Mr 15 '24

Transmission in France. map Elec W 86:82 Jl 11 '25

Germany

Das 100 kv-netz der sächsischen landesversorgung. A. Rachel. diags map Elektrotech Zeit 45:21-5, 53-9 Ja 10, 24 '24

Sweden

Swedish water power and the farmer. il diag map Elec W 83:993-8 My 17 '24

United States

High-tension transmission lines completed and under construction during 1924. Elec W 85:18-19 Ja 3 '25

Tendency toward centralization of power development. W. L. Abbott. maps Munic & Co Eng 66:165-71 Ap '24

Transmission line over Sierra Nevadas completed. il J Elec 51:350 N 1 '23

West Virginia

Long span on Cheat river. C. F. Sheakley. il Elec W 83:1277-8 Je 21 '24

ELECTRIC lines, Artificial

Artificial representation of power systems. H. H. Spencer and H. L. Hazen. bibliog il diags Am Inst E E J 44:24-31 Ja '25

Artificial transmission lines with distributed constants. F. S. Dellenbaugh, jr. il chart diags Am Inst E E J 42:1293-6; Discussion. 1343-7 D '23

Class of equivalent electrical networks. Philos Mag 6th ser 49:728-39 Ap '25

Corona investigation on an artificial line. M. F. Gardner. il Am Inst E E J 44:813-20 Ag '25

Generalization of the theory of artificial lines. Philos Mag 6th ser 49:1072-5 My '25

Some artificial lines and networks associated with the uniform telephone transmission line; work conducted by the research staff of the General electric co., ltd. diags Inst E E J 63:593-6 Je '25

Theory of artificial telephone and transmission lines. diags Philos Mag 6th ser 48: 859-65 N '24

ELECTRIC locomotives

A.R.A. report on electric rolling stock. Ry Age 78:1560-2 Je 20 '25; Ry Mech Eng 99:423-6 Jl '25; Ry R 77:126-30 Jl 25 '25

Automotrices électriques à courant monophasé du Chemin de fer des Alpes bernoises. diag Génie Civil 86:637 Je 27 '25

Baldwin-Westinghouse 60-ton electric locomotive for Aroostook Valley R. R. il Ry R 76:1145-6 Je 20 '25

ELECTRIC locomotives—*Continued*
Die beschäftigung der deutschen elektroindustrie im bau elektrischer locomotiven. Elektrotech Zeit 45:436-7 My 1 '24
Details of new Pennsylvania electric locomotives. il Elec Ry J 63:888-9 Je 7 '24
Detroit & Ironton locomotives to use M.-G. control. F. Allison, H. L. Maher and L. J. Hibbard. Elec Ry J 64:707-8 O 18 '24; Same. Ry Age 77:685-6 O 18 '24; Same. Ry R 75: 578-80 O 18 '24; Same. Aera 13:678-82 N '24
Detroit & Ironton R.R. electric locomotive nearing completion. il Ry R 76:346-7 F 21 '25
D.T. & I. electric locomotive completed. il diags Ry Age 79:389-92 Ag 29 '25; Abstract. Mech Eng 47:934 N '25
Deutsche verkehrs-ausstellung München 1925. D. Przygode. il diags Elektrotech Zeit 46: 1431-6 S 17 '25
Development of the electric locomotive. A. H. Armstrong. il diags Mech Eng 46:608-17 O '24; Same, without diags and table. Aera 12:2034-50 Jl '24; Abstract. Elec Ry J 63:898-900 Je 7 '24; Discussion. Mech Eng 46:696-8 N '24
Development of the electric locomotive. F. H. Shepard. diags tables Ry Age 76:1568-78 Je 14 '24; Abstract. Elec Ry J 63:937-8 Je 14 '24; Discussion. Ry Age 76:1578-9 Je 14 '24
Direct-current, 3000-volt, gearless passenger locomotive of the C.M. & St P. Ry. on exhibition tour of the East. il Gen Elec R 27: 440 Jl '24
Eigenschwingungen von systemen mit periodisch veränderlicher elastizität; abstract. L. Dreyfus. Elektrotech Zeit 45:693-4 Je 26 '24
Die eisenbahntechnische ausstellung Seddin. il Elektrotech Zeit 45:1377-84 D 11 '24
Die eisenbahntechnische tagung in Berlin. il diags Elektrotech Zeit 45:1171-6 O 30 '24
Electric locomotive built in Piedmont & Northern shops. il Ry Age 78:238 Ja 17 '25
Electric locomotive for the Imperial Japanese railways. il diags Engineering 117:97-100, 112, pl 4 Ja 25 '24
Electric locomotive of 7125 horse power shows efficiency in track tests. Am Inst E E J 44: 755 Jl '25
Electric locomotives for Mexican railway. G. H. Walker. Ry Age 75:1021-3 D 1 '23; Same. il plan Gen Elec R 27:272-7 Ap '24
Electric locomotives for Montreal harbor. il Can Eng 49:154 Jl 21 '25
Electric locomotives for South African railway. il Ry Age 77:53-6 Jl 12 '24; Same cond. Elec Ry J 64:390-1 S 13 '24
Electric locomotives for the Norte railway of Spain. il diag Engineer 139:78, 84-5 Ja 16 '25
Electric locomotives for the Norte railways of Spain. W. R. Taliaferro. il diag Ry R 75:912-15 D 6 '24; Same cond. Ry Age 77: 1037-8 D 6 '24
Electric locomotives for the South African railways. il Ry Age 78:1025-6 Ap 25 '25
Electric locomotives for the Virginian; illustrations. Am Mach 63:188-9 Jl 30 '25
Electric motive power for heavy railroad service built in 1923. il Ry R 74:77-81 Ja 5 '24
Elektrische 1 C 1—personenzuglokomotive von der eisenbahntechnischen ausstellung in Seddin. diags Zeit Ver Deutsch Ing 69:52 Ja 10 '25
Elektrische lokomotiven der deutschen reichsbahn. il diags Zeit Ver Deutsch Ing 69:420-1 Mr 28 '25
Die elektrischen lokomotiven unter besonderer berücksichtigung der lokomotiven der deutschen reichsbahn. Kleinow. diags Elektrotech Zeit 45:547-53, 583-8 My 29-Je 5 '24
English electric locomotives. il Electrician 94: 274-5 Mr 6 '25
Experimental locomotives for New York Central. diags Elec Ry J 65:102-4 Ja 17 '25
Factors affecting the design of d-c. motors for locomotives. R. E. Ferris. Am Inst E E J 44:481-9 My '25
First electric locomotive for Ford's railroad ready for trials. Am Mach 63:294d Ag 13 '25
First Virginian locomotive ready. E. I. Staples. il Aera 13:1867-74 Je '25; Same abr. Ry R 76:935-7 My 23 '25
Ford motor-generator locomotive on test. il diag Elec Ry J 66:352-5 S 5 '25
Gegenwärtiger stand der elektrischen bahnbetriebe. W. Usbeck. il diags map Zeit Ver Deutsch Ing 68:943-9 S 13 '24
Handling freight on Aroostook Valley line. il Elec Ry J 65:1007-8 Je 27 '25
High-speed electric locomotives; report to the International railway congress. Engineer 139:675-6; 140:14-15 Je 19, Jl 3 '25; Elec R (Lond) 97:71 Jl 10 '25; Electrician 95:7-8 Jl 3 '25; Engineering 120:11-12 Jl 3 '25; Discussion. Elec R (Lond) 97:71-2, 116 Jl 10-17 '25
High speed passenger locomotive for Paris-Orleans railway. W. D. Bearce. il Gen Elec R 27:146-50 Mr '24
Hydro-electric exhibition at Grenoble. il Elec R (Lond) 97:368-70 S 4 '25
I.T.S. builds articulated locomotives. il diags Elec Ry J 65:187-9 Ja 31 '25
Illinois traction system proud of new freight locomotives. E. E. Soules. il Aera 13:1125-8 F '25
Japanese electrifying State railways. H. C. Hickock. diags map Elec Ry J 66:397-400 S 12 '25
Large single-phase locomotives for the Loetschberg railway. Elec Ry J 65:407-8 Mr 14 '25; Génie Civil 86:94 Ja 24 '25
Locomotives électriques à grande vitesse type 2-C-2, de la Compagnie du Midi. diag Génie Civil 86:92-3 Ja 24 '25
Les locomotives électriques en Amérique; locomotives du Pennsylvania railroad. il diags Génie Civil 86:373-9 Ap 18 '25
Locomotives monophasées pour les trains de minerais de fer de la ligne d'Ofoten (Norvège). diag Génie Civil 86:364 Ap 11 '25
M.-G. locomotives for New Haven R.R. diags Elec Ry J 64:705-6 O 18 '24; Ry Age 77:697-8 O 18 '24; Ry R 75:623-4 O 25 '24; Gen Elec R 27:718-19 N '24
Main line railway electrification. P. Dawson and S. P. Smith. Engineer 139:620-4, 650-1; 140:185, 343-4, 423-6 Je 5-12, Ag 21, O 2, 23 '25
Motive power exhibit by the Pennsylvania railroad. il Ry R 74:264-5 F 9 '24
Motors haul Maine potatoes. R. E. Hodgkins. il Aera 13:2017-19 Jl '25
Mountain express engine. B. Vannes. diags Electrician 93:407+ O 10 '24
Neue gleichstromlokomotiven für Italien; abstract. diags Elektrotech Zeit 46:854 Je 4 '25
Neue triebwagen der bahn Burgdorf-Thun; abstract. il Elektrotech Zeit 45:313-14 Ap 3 '24
New American electric locomotives. il diag Engineer 137:130 F 1 '24
New electric locomotives for New York Central R.R. il diags Ry R 76:164-6 Ja 17 '25; Same. Ry Age 78:223-4 Ja 17 '25; Same. Sibley J 39:265-6 F '25
New electric locomotives of the N. & W. Ry. T. C. Wurts. il diag Ry R 74:1018-22 Je 7 '24; Same. Elec J 21:280-2 Je '24
New Haven and Ford electric locomotives compared. W: S: Murray. Elec W 84:1107 N 22 '24
New Haven railroad buys motor-generator locomotives. B. S. Havens. diags Aera 13: 683-6 N '24
Les nouvelles locomotives électriques des chemins de fer de l'Etat japonais. il diags Génie Civil 84:245-8 Mr 15 '24
Pennsylvania builds three electric locomotives. T. C. Wurts. il diag Ry Age 76:295-6 Ja 26 '24; Same. Elec Ry J 63:133-4 Ja 26 '24; Same. Ry R 74:170-2 Ja 26 '24; Abstract. Eng N 92:423 Mr 6 '24
Pennsylvania R.R. 2-8-2 type electric locomotive. W. H. Eunson. il diag Ry R 74:1189-91 Je 21 '24; Same. Ry Age 76:1433-5 Je 12 '24
Le programme d'électrification partielle du réseau des chemins de fer P.-L.-M. diags maps Génie Civil 83:589-95 D 15 '23

ELECTRIC locomotives—*Continued*
Recent developments in electric locomotives. N. W. Storer. il diags Mech Eng 46:523-8 S '24; Same. Aera 13:254-65 S '24; Excerpts. Eng & Contr (Ry) 62:118-23 Jl 16 '24; Elec Ry J 63:898-900 Je 7 '24; Discussion. Mech Eng 46:696-8 N '24
Die Siemens-Schukert-lokomotiven auf der schwedischen riksgränsbahn. F. Kuntze. il diags map Zeit Ver Deutsch Ing 68:72-6 Ja 26 '24
Single-phase electric locomotives. il (supp) Engineer 137:305-8, 310 Mr 21 '24
Sixteen years of electric locomotive service at the St Clair tunnel of the Grand Trunk railway, Canadian National railways. H. L. Kirker. il Elec J 21:474-6 O '24
South African railway electric locomotive; British Empire exhibition. il Engineering 117:597-601 My 9 '24
Talschnellzugslokomotiven der österreichischen bundesbahnen. R. Lorenz. diags Elektrotech Zeit 46:374-7 Mr 12 '25
Ten electric locomotives do work of 23 steam engines on Mexican railway. W. D. Bearce. il Aera 13:1998-2003 Jl '25
Triple electric locomotive for the Virginian railway. il Engineer 139:606-7 My 29 '25; Ry Age 78:1267 My 23 '25; Blast F & Steel Pl 13:260 Je '25; Génie Civil 86:586-7 Je 13 '25; Electrician 95:269 S 4 '25
Turning the wheels of the railroad: electricity and gasoline. il Sci Am 131:245 O '24
22,000-volt motor generator locomotives. il diag Engineer 139:334-5 Mr 20 '25
2-C-1 single-phase electric locomotive with individual drive. il Engineer 137:362, 369-71 Ap 4 '24
2-8-2 type three-phase electric locomotive for the Italian railways. il Engineering 120:262 Ag 28 '25
Eine umformerlokomotive in den V.St. von Amerika. il diags Elektrotech Zeit 46:1154-5 Jl 30 '25

See also Electric tractors; Locomotives, Diesel-electric; Railroads—Electrification

Control

Camshaft control on locomotives built at St Catharines. il plan Elec Ry J 65:853-4 My 30 '25

Cost of operation

Comparison of operating and maintenance costs of electric and steam locomotives of the Swiss federal railways for 1920-1922. Engineer 137:685 Je 20 '24

Design

Crankpin design for electric locomotives. J. K. Wood. diags Am Mach 62:989-92 Je 25 '25
2-8-2 electric locomotives on the Pennsylvania railroad. il diags plans Engineering 119:125-8, 138, 186-9, pl 7, 11-13 Ja 30, F 13 '25
Two 3000-volt direct-current locomotives at the British Empire exhibition. il Engineer 138:370-2, 382 O 3 '24

Performance

Locomotive speed record. Elec W 82:1185 D 8 '23

Testing

Electric locomotive tested at 105 miles an hour. il Ry Age 75:1070-1 D 8 '23; Ry R 73:819-20, 859 D 8-15 '23; Elec Ry J 62:968-70 D 8 '23
Electricity and steam's tug of war. il Am Ind 24:31-2 Mr '24
Epoch making tests on new passenger and freight locomotives. W. D. Bearce. il Gen Elec R 27:98-103 F '24
Festigkeits-untersuchungen an der kuppelstange für eine elektrische B+B-lokomotive. E. Herms. diags Elektrotech Zeit 45:1432-4 D 25 '24
Otheograph records of steam and electric locomotives. P. M. Gillilan. il Gen Elec R 27:179-81 Mr '24
Tests of electric locomotive, Norfolk & Western Ry. T. C. Wurts. il Ry R 75:581-3 O 18 '24

ELECTRIC locomotives, Industrial
Electric locomotives for construction work. H. H. Johnston. il diag Eng N 93:199-200 Jl 31 '24
Electric locomotives in by-product coke quenching. H. H. Johnston. il Gas Age 52:675-8 D 1 '23; Same cond. Elec J 21:517-20 N '24
Electric pusher locomotives in ore dock service. il diag Ry R 76:361-2 F 21 '25
Die elektrizität im baubetriebe. F. Kunath. il diag Zeit Ver Deutsch Ing 68:708-11 Jl 5 '24
Limited headroom forces use of trolley reel on mucking train locomotive. il Eng N 94:532 Mr 26 '25
Production of mining and industrial electric locomotives in 1923, 1924 and 1925. Coal Age 28:504 O 8 '25
Sales of electric locomotives lag behind last year's. Coal Age 27:45 Ja 8 '25

ELECTRIC locomotives, Mine
Applications of motors to mine locomotives. W. A. Clark. Am Inst E E J 44:347-9 Ap '25; Discussion. 780 Jl '25
Approval system of the Bureau of mines as applied to permissible storage-battery locomotives. L. C. Ilsley and H. B. Brunot. U S Bur Mines Rep of Invest 2581:1-11 Mr '24 (typew)
Checking locomotive wheels before using. O. E. Kenworthy. diag Coal Age 25:472-3 Mr 27 '24
Electric-battery mining locomotive. il diags Engineering 120:381-2 S 25 '25; Electrician 95:374 S 25 '25; Elec R (Lond) 97:529-30, 564-6 O 2-9 '25
El Potosi company's new industrial locomotives equipped for regenerative braking. il Eng & Min J 119:386 F 28 '25
Largest storage-battery mine locomotive charged with pole from overhead wire. Eng & Min J 119:187 Ja 24 '25
Mechanical, electrical difficulties discussed at American mining congress. il Coal Age 27:821 Je 4 '25
Mine cuts and hauls coal with battery power. J. B. Hichs. il Coal Age 27:39-42 Ja 8 '25
Mine locomotives for thin and thick coal veins. T. F. Downing, jr. Min Cong J 11:150-2 Ap '25
Mine locomotives, their operation and control. F. L. Stone. il Coal Age 26:681-4 N 13 '24
Motorman cannot operate locomotive unless stationed inside cab. J. L. Boardman. diags Coal Age 26:663 N 6 '24
One way of reducing operating costs. C. H. Matthews. Min Cong J 10:299-300 Jl '24
Production of mining and industrial electric locomotives in 1923, 1924 and 1925. Coal Age 28:504 O 8 '25
Sales of electric locomotives lag behind last year's. Coal Age 27:45 Ja 8 '25
Slow speed locomotives for coal mines. S. W. Farnham. W Soc E J 29:363-9; Discussion. 369-70 S '24
Storage battery locomotives for mines. J: T. Pringle. diags map Electrician 91:631-3, 666-7 D 7-14 '23
Unusual electric mine locomotive. E. Bjornson. il Eng & Min J 118:674 O 25 '24
Use of ball bearings on mine locomotive motors. C. A. Atwell. il diags Elec J 21:513-16 N '24
What everyone in the industry should know about handling of mining machinery. T. F. McCarthy. il Coal Age 25:307-9 F 28 '24
What means should be taken to keep mine locomotives equal to their work. G. H. Emerson. il Coal Age 25:648-9 My 1 '24

See also Electric locomotives, Storage battery

Control

Latest improvements in locomotive control. H. H. Johnson. il diags Coal Age 26:367-70 S 11 '24
Reel and trolley switch combined in locomotive controller. il Coal Age 24:706 N 8 '23

ELECTRIC locomotives, Mine—*Continued*

Cost of operation

Electric locomotive costs. R. S. Walker. Gen Elec R 27:589-91 S '24

Repair

By large mandrels old locomotive motor frames are made like new. il Coal Age 26: 879-80 D 18 '24

Why it pays to keep electrical equipment at coal mines in repair. M. S. Beddow. il Coal Age 25:172-5 Ja 31 '24

ELECTRIC locomotives, Steam turbine. See Locomotives, Steam turbine—Electric transmission

ELECTRIC locomotives, Storage battery

Approval system of the Bureau of mines, as applied to permissible storage-battery locomotives. L. C. Ilsley and H. B. Brunot. U S Bur Mines Rep of Invest 2601:1-8 '24

Build electric locomotives on lines of steam units. Coal Age 26:815-16 D 4 '24

Electric battery locomotive. il diags Engineer 137:646, 648 Je 13 '24

Electric-battery mining locomotive. il diags Engineering 120:381-2 S 25 '25; Electrician 95:374 S 25 '25; Elec R (Lond) 97:529-30, 564-6 O 2-9 '25

Largest storage-battery mine locomotive charged with pole from overhead wire. Eng & Min J 119:187 Ja 24 '25

Locomotive lamps burn out because circuit supplies two voltages. diags Coal Age 26: 731 N 20 '24

Les locomotives électriques à accumulateurs. A. Milhoud. diag map Soc Ing Civils Bul 78: 274-91 Mr '25

Mine cuts and hauls coal with battery power. J. B. Hicks. il Coal Age 27:39-42 Ja 8 '25

Storage battery locomotives for mines. J: T. Pringle. diags map Electrician 91:631-3, 666-7 D 7-14 '23

Storage battery locomotives for Northern Pacific. il Ry Age 78:1331 My 30 '25; Ry R 76:937-8 My 23 '25

Storage-battery locomotives increase safety in the mines. il Coal Age 26:148 Jl 31 '24

See also Motor cars (railroad)—Storage battery

ELECTRIC losses

Calculating losses on a transmission system. map Elec W 83:1237-8 Je 14 '24

Corona losses between wires at extra high voltages. C. F. Harding. il diag Am Inst E E J 43:932-40 O '24; Discussion. 44:394-7 Ap '25

Cost of power losses in electric conductors. C: R. Underhill. Power 61:834 My 26 '25

Eddy current losses in twisted conductors. L. Fleischmann. Am Inst E E J 43:1062-4 N '24

Der energieverlust in der elektrizitätswerkswirtschaft. Wenger. Elektrotech Zeit 46:583-5 Ap 16 '25

Losses in grounded sheaths of single-conductor cables. H. B. Dwight. Elec J 21:62-6 F '24

On the nature of corona loss. C. T. Hesselmeyer and J. K. Kostko. diags Am Inst E E J 44:1068-75 O '25

Redistributing transformer locations reduces losses. G. T. Bogard. Elec W 84:898 O 25 '24

Reducing distribution system losses. D. M. Bunn. Elec W 82:1177 D 8 '23

Spannungs- und leistungsverlust suf leitungen. E. Heinrich. Elektrotech Zeit 46:1223-4 Ag 13 '25

Transmission losses and low power factor. P. C. Shults. chart Elec W 86:175-6 Jl 25 '25

See also Electric leakage; Electric machinery—Losses; Electric radiation; Iron losses

ELECTRIC machinery

Die analogie zwischen elektromagnetischen maschinen und influenzmaschinen. F. Ollendorff. diags Elektrotech Zeit 45:210-13 Mr 13 '24

Connecting and testing direct-current machines. F. A. Annett and A. C. Roe. 237p McGraw-Hill '25

Developments in the generation and distribution of electric energy during 1924. H. W. Cope. il N E L A Bul 12:11-15 Ja '25

Diagrams for locating machine attachments. Elec W 86:701 O 3 '25

Direct-current machinery. D: P. Moreton and others. 375p American technical soc., Chicago '24

Dynamo electric machinery. E. Hausmann. 645p Van Nostrand '24

Electrical engineering problems; direct-current circuits and apparatus. J: G. Pertsch, jr. 215p McGraw-Hill '25

Electrical machinery and control diagrams. T. Croft. 305p McGraw-Hill '24

Electrical-machinery erection. T. Croft. 306p McGraw-Hill '25

Generator and motor examples. F. E. Austin. 108p F. E. Austin, Hanover, N.H. '24

Industrial electricity; direct-current machines. W: H: Timbie. 735p Wiley '24

Insulation of electrical machinery; abstracts. K. G. Maxwell and A. Monkhouse. Elec R (Lond) 96:715-16 My 1 '25; Electrician 94: 514-15 My 1 '25; Engineering 119:548 My 1 '25; Discussion. Elec R (Lond) 96:716-17 My 1 '25

Management of dynamo-electric machinery and industrial controllers. F. B. Crocker, C. C. Adams and G: J. Kirkgasser. 272p American technical society, Chicago '24

Preparing electrical machinery for installation. Power Pl Eng 28:1062 O 15 '24

Problems of shaft deflection. R. Lochner. diags Electrician 95:442-3 O 16 '25

Le réglage automatique de la puissance d'une installation électrique. M. Doloukhanoff. Génie Civil 85:554-5; Discussion. Rateau. 85:555 D 13 '24

Report of A.I.E.E. electrical machinery committee. Am Inst E E J 43:974-8 O '24

Shaft currents in electric machines. P. L. Alger and H. W. Samson. bibliog il diags Am Inst E E J 42:1325-34 D '23; Same. Gen Elec R 27:188-98 Mr '24; Discussion. Am Inst E E J 43:1081-2 N '24

Shaft whipping. B. L. Newkirk. il diags Gen Elec R 27:169-78 Mr '24; Abstract. Mech Eng 46:279-81 My '24

Simple method of calculating magnetic conditions in electrical machinery. C. Macmillan. Gen Elec R 28:302-11 My '25

Some developments in the electrical industry during 1923. J: Liston. il diags Gen Elec R 27:9-60 Ja '24; Same cond. N E L A Bul 11:13-19 Ja '24; Excerpts. Blast F & Steel Pl 12:25-8+ Ja '24; Abstract. Iron Age 113: 223-4 Ja 17 '24

Stored mechanical energy in transmission systems. J. P. Jollyman. Am Inst E E J 44: 948-50 S '25

Tooth pulsation in rotating machines. T. Spooner. diags Am Inst E E J 43:646-50 Jl '24; Discussion. 43:1175-6 D '24

Transmission stability; analytical discussion of some factors entering into the problem. C. L. Fortescue. diags Am Inst E E J 44: 951-61 S '25

Vibration absorbers for large single-phase machines. C. R. Soderberg. il diags Elec J 21: 383-7 Ag '24

Vibration problem in engineering; the influence of stationary parts of electric machines upon the critical speeds of the rotating members. C. R. Soderberg. diags Elec J 21:579-82 D '24

See also Brushes (electric machinery); Commutators; Converters, Electric; Converters, Synchronous; Cranes, derricks, etc. —Electric equipment; Electric apparatus and appliances; Electric controllers; Electric driving; Electric engineering; Electric generators; Electric locomotives; Electric motor generators; Electric motors; Electric plants; Electric protective apparatus; Electric shovels; Electric tractors; Electric transformers; Electricity in mining; Electricity in the petroleum industry; Electri-

ELECTRIC machinery—*Continued*
city on the farm; Elevators, Electric; Farm lighting plants; Hydroelectric plants; Iron losses; Pumping machinery, Electric; Ship propulsion, Electric; Washing machines, Electric

Bearings

Selection of ball and roller bearings for electrical machines. T. D. Trees. bibliog Inst E E J 62:782-90 S '24; Abstract. Electrician 93:496+ O 31 '24; Discussion. Inst E E J 63: 679-86 Jl '25

Bibliography

Bibliography on core losses in electrical machinery and related subjects, 1885-1924, prepared by the Core loss committee of the Engineering division, National research council. Autographed from type-written copy 140p National research council, Washington '25

Care

Care and maintenance of electrical machinery Am Mach 60:472 Mr 27 '24
How to minimize breakdowns of electrical machinery. C. H. S. Tupholme. Coal Age 25: 5-6 Ja 3 '24
Preventing breakdowns of electrical equipment. C. R. Chace. il Power 61:529-32 Ap 7 '25

Cooling

Accomplishments in the study of cooling electric machines. C. J. Fechheimer. il diag Power 61:574-5 Ap 14 '25
Cooling of electric generating equipment and central station buildings; report of N.E.L.A. committee; abstracts. diags plans Heat & Ven 20:57-9 N '23; Power Pl Eng 27:1197-1200 D 1 '23; Power 58:1043-4 D 25 '23
Design of cooling fans for electrical machines. W. G. White. Elec R (Lond) 96:928 Je 12 '25
Hydrogen as a cooling medium for electrical machinery. E. Knowlton, C. W. Rice and E. H. Freiburghouse. il diags Am Inst E E J 44:724-34 Jl '25
Performance of centrifugal fans for electrical machinery. C. J. Fechheimer. diags plan Mech Eng 47:319-26 My '25
Typical installations of rotating machinery with directed ventilation as developed and used on the Pacific coast. il J Elec 52:457 Je 1 '24
Ventilating electrical machinery. il Iron Tr R 75:1443-6 N 27 '24
Ventilation and noise control of substation machinery. F. T. Hague. diags Elec J 21: 107-11 Mr '24

See also Electric generators—Cooling; Electric motors—Cooling

Design

Ampere-turns for saturated teeth. V. Karapetoff. Elec W 83:1231 Je 14 '24
Calculation of air-space flux. W. Cramp and N. I. Calderwood. diags Inst E E J 61:1061-71 O '23
Developments in electrical machine design; report of A.I.E.E. committee on electrical machinery. Am Inst E E J 44:902-10 Ag '25; Discussion. 44:1155 O '25
Elements of electrical design. A. Still. 535p McGraw-Hill '24
Excitation of non-salient pole cores. N. B. Hill. Electrician 92:6-7 Ja 4 '24
Kräftespiel und festigkeit von tragkeilen. F. László. diags Elektrotech Zeit 45:493-5 My 15 '24

Failures

Breakdowns and failures of electrical plant and equipment. il Elec R (Lond) 97:312-14 Ag 21 '25

Losses

Effect of punching strains on the magnetic properties of electrical sheet steel. G. H. Cole. il Elec J 21:55-61 F '24
Der einfluss der korngrösse auf die verlustziffern von dynamo- und transformatorenblechen. K. Daeves. il Stahl & Eisen 44: 1283-6 O 16 '24
Evaluating transformer losses. E. S. Zuch. Elec W 83:191 Ja 26 '24
Squirrel-cage induction-motor core losses. T. Spooner. diags Am Inst E E J 44:32-7 Ja '25; Discussion. 44:659-62 Je '25
Zur analyse der zusatzverluste, insbesondere von turbogeneratoren. R. Pohl. Elektrotech Zeit 46:1182-5 Ag 6 '25
Zusätzliche verluste in kleinen drehstrommotoren. R. Vieweg. Elektrotech Zeit 45: 988-9 S 11 '24; Discussion. 46:1011-16 Jl 2 '25
Zusätzliche verluste in synchronmaschinen und ihre messung. R. Rüdenberg. diags Elektrotech Zeit 45:37-41, 59-63 Ja 17-24 '24; Discussion. 46:1011-16 Jl 2 '25

Manufacture

Canadian Westinghouse company produces large electrical castings. P. Dwyer. il Foundry 53:276-80 Ap 1 '25
Punchings require careful annealing. il Iron Age 115:1775 Je 18 '25
Speeds production of heavy molds for electrical castings. P. Dwyer. il diag Foundry 53: 307-10 Ap 15 '25

Rating

Rating of resistances. Elec R (Lond) 97:262 Ag 14 '25

Repair

Reminiscences of a trouble shooter for a machinery builder. Ind Eng 83:131-2+, 182-4+ Mr-Ap '25

Standards

Standards of the American institute of electrical engineers, 1922 revision. 177p Am. inst. of elec. engineers, New York '22
Über die wichtigsten änderungen der verbandsbestimmungen, betreffend maschinen und transformatoren. G. Dettmer. Elektrotech Zeit 45:1018-21 S 25 '24

Temperature

Die erwärmung elektrischer maschinen. F. Ratkovszky. Elektrotech Zeit 45:527-8 My 22 '24
Measuring temperature in electric machinery. I. M. Stein. diags Power Pl Eng 28:1209-11 D 1 '24
Rise and distribution of temperature in small electrical machines. E: Hughes. diags Inst E E J 62:628-48 Jl '24
Switchboard type temperature indicators, D. M. Carswell. il diags Gen Elec R 27:425-9 Jl '24
Thermal time constants of dynamo-electric machines. A. E. Kennelly. Am Inst E E J 44:142-9 F '25; Discussion. 44:649-56 Je '25

See also Electric generators—Cooling; Electric generators, Alternating current—Cooling; Electric machinery—Cooling; Electric transformers—Temperature

Testing

Making electrical-machinery tests in industrial plants. J. E. Housley. Power 60:890-1 D 2 '24
Methods of testing electrical apparatus. Elec J 22:41-5, 91-5, 136-40, 191-6 Ja-Ap '25
Technische verfahren zur prüfung von geräuschen. K. Lubowsky. diags Zeit Ver Deutsch Ing 69:100-2 Ja 24 '25

Ventilation

See Electric machinery—Cooling

ELECTRIC machinery, Used
Used-equipment market. A. O. Kuehmsted. Elec W 83:1156-7 My 31 '24

ELECTRIC machinery insurance. See Insurance, Electric machinery

ELECTRIC machines
Die analogie zwischen elektromagnetischen maschinen und influenzmaschinen. F. Ollendorff. diags Elektrotech Zeit 45:210-13 Mr 13 '24
Die bemessung der wellen elektrischer maschinen. E. Lasswitz. Elektrotech Zeit 45: 1205-8 N 6 '24

ELECTRIC machines—*Continued*

Quantitative analysis of a four carrier, Voss machine. A. W. Simon. Philos Mag 6th ser 49:257-62 Ja '25

Quantitative theory of the influence electrostatic generator. A. W. Simon. Phys R 24: 690-6 D '24

Theory of a simple electrostatic alternator. A. W. Simon. Phys R 25:368-75 Mr '25

Verwendung einer influenzmaschine für kabelprüfungen. F. Grössel. diag Elektrotech Zeit 45:1385-6 D 11 '24

ELECTRIC measurement

Alternating current bridge methods. B. Hague. 302p [bibliog. p. 295] Pitman '23

Automatic transmission of power readings. B. H. Smith and R. T. Pierce. il diags Am Inst E E J 43:101-5 F '24; Discussion. 43: 1178-80 D '24

Blindverbrauchsmessung in drehstromnetzen. A. Sengel. Elektrotech Zeit 45:973-5 S 11 '24

Calculation and measurement of inductance and capacity. W: H. Nottage. 2d ed. 224p Wireless press, inc., New York '24

Calibration of cells for conductance measurements: absolute measurements on the specific conductance of certain potassium chloride solutions. H: C. Parker and E. W. Parker. diags Am Chem Soc J 46:312-35 F '24

Commutator measurements on polarized electrodes. M. Knobel. diag Am Chem Soc J 46: 2613-21 D '24

Dielectric absorption in fibrous insulating materials; use of lag meter. R. E. Marbury and E. R. Le Ghait. il diags Elec J 22:526-34, 605-10 N-D '25

Dielectric properties of water for continuous waves. G. C. Southworth. diags Phys R 23: 631-40 My '24

Eisenverlustmessungen nach einer brückenmethode. J. Goldstein. Elektrotech Zeit 45: 1270-2 N 20 '24

Electrical measurement of physical values; abstracts. P. A. Borden. Am Inst E E J 44: 363-5 Ap '25; Power Pl Eng 29:395-7 Ap 1 '25; Discussion. Am Inst E E J 44:656-9 Je '25

Electrical measurements in theory and application. A. W. Smith. 2d ed. 338p McGraw-Hill '24

Electrical measuring instruments. il Power Pl Eng 29:74-5 Ja 1 '25

Electrical measuring instruments. C: V. Drysdale and A. C. Jolley. 440p Van Nostrand '24

Electrical measuring instruments and supply meters. D. J. Bolton. 328p Dutton '23

Electrical properties of flames containing salt vapors for high frequency alternating currents. A. B. Bryan. diags Phys R 23:189-94 F '24

Die elektrische ventilröhre als gerät zur messung von überspannungen. M. Schenkel. diags Elektrotech Zeit 45:490-2 My 15 '24

Graphic comparison of potential scales and electrode potentials. L: J. Bircher. Ind & Eng Chem 17:622 Je '25

High-tension bridge for measurement of dielectric losses in cables. R. W. Atkinson. diags Elec J 22:58-66 F '25

High-tension metering for operating purposes. W. N. Lindblad. J Elec 54:441 Je 1 '25

Instant Heavisidion—a kinematic computing device for long transmission lines. V. Karapetoff. il diags Gen Elec R 28:746-51 N '25

Measurement of high values of insulation resistance. J. B. Whitehead. il diag Elec W 82:1007-9 N 17 '23

Measurement of power-factor in industrial plants. R. A. Lane. diags chart Elec J 22: 391-3 Ag '25

Measurement of voltage peaks. R. D. Mershon. diags Elec W 83:189-90 Ja 26 '24; Same. Am Inst E E J 43:156-8 F '24; Abstract. Engineer 137:444 Ap 25 '24

Measuring current flow in porcelain insulators. W. A. Fraser and H. W. M. Secord. il Elec W 83:282-4 F 9 '24

Measuring electrolytic currents in soil. B. A. Williamson. diags Elec Ry J 63:503-5 Mr 29 '24

Measuring power factor. L. D. Price. il diags Elec W 85:1131-2 My 30 '25

Measuring the reactive component. J: Auchincloss. il diags Gen Elec R 27:263-72 Ap '24

Die messung der blindleistung beim quecksilberdampfgleichrichter. L. P. Krijger. Elektrotech Zeit 46:48-50 Ja 8 '25

Die messung der spannungsverteilung und des feldlinienverlaufs an isolatorenketten. Regerbis. diags Elektrotech Zeit 46:298-302, 336-41 F 26-Mr 5 '25

Messung der steilheit von wanderwellen. E. Marx. Elektrotech Zeit 45:1083-4 O 9 '24

Die messung von scheitel- und augenblickswerten hoher wechselspannungen. R. Schimpf. il diags Elektrotech Zeit 46:75-81 Ja 15 '25

Method of comparing inductance and capacity. J. M. Ganguli. Philos Mag 6th ser 49:165-7 Ja '25

Method of comparing inductance and capacity. T. B. Vinycomb. Philos Mag 6th ser 50:439-44 Ag '25

Method of measuring electrolysis. B. A. Williamson. il diag Elec W 85:515-16 Mr 7 '25

Methods of testing electrical apparatus. diags Elec J 22:191-6 Ap '25

Methods used in measuring resistance. diags Power Pl Eng 29:82-3 Ja 1 '25

Nachahmung des elektrischen feldes von leitungen im elektrolytischen trog. W. Zschaage. diags Elektrotech Zeit 46:1215-19 Ag 13 '25

Eine neue methode der verlustmessung, insbesondere für turbogeneratoren. Elektrotech Zeit 46:1160-1 Jl 30 '25

Ein neuer leistungsfaktormesser für drehstrom mit ungleicher belastung. H: Kafka. Elektrotech Zeit 45:1429-32 D 25 '24

New calomel half cells for industrial hydrogen-ion measurements. H: C. Parker and C. A. Dannerth. diags Ind & Eng Chem 17:637-9 Je '25

New method and means for measuring dielectric absorption; the dielectric lag meter. R. E. Marbury. bibliog il diag Am Inst E E J 44:718-23 Jl '25; Abstract. Elec W 86:17 Jl 4 '25; Discussion. Am Inst E E J 44:1146-50 O '25

New method of high-frequency resistance measurement. E. Mallett and A. D. Blumlein. Inst E E J 63:397-412 Ap '25; Abstract. Electrician 95:153 Ag 7 '25; Discussion. Inst E E J 63:412-14 Ap '25

Power measurements at high voltages and low power factors. J. S. Carroll, T: F. Peterson and G: R. Stray. il diag Am Inst E E J 43:941-9 O '24; Discussion. 44:513-22 My '25

Precision watthour meters and high-frequency measurements; report of A.I.E.E. committee. Am Inst E E J 44:967-8 S '25

Quadrant electrometer. W. B. Kouwenhoven. bibliog diags Am Inst E E J 44:973-81; Discussion. 1023-4 S '25

Revised table of phase angle correction factors for use in power measurements. C. T. Weller. Gen Elec R 28:202-6 Mr '25

Ein statisches messgerät für sehr hohe wechselspannungen. K. A. Sterzel. il diags Elektrotech Zeit 45:117-19 F 14 '24

Die stromaufnahme von hängisolatoren und ihr einfluss auf die spannungsverteilung an isolatorenketten. E. Marx. il diags Elektrotech Zeit 46:81-7 Ja 15 '25

Tables for the calculation of the mutual inductance of circuits with circular symmetry about a common axis. F. W. Grover. U S Bur Stand Sci Pa 498:1-18 '24

Transmission and summation of meter readings by use of distant dial. R. E. Thatcher. il Elec W 84:1311-12 D 20 '24

Transmission of meter readings by the impulse method. B. H. Smith. il diags Elec J 21:219-21 My '24

Über messungen von kapazitäten mittels kathodenröhren. V. S. Kulebakin. diags Elektrotech Zeit 46:923-4 Je 18 '25

Über schlüpfungs- und drehzahlmessungen. R. Vieweg and H. E. Linckh. diag Elektrotech Zeit 46:1107-8 Jl 23 '25

ELECTRIC measurement—*Continued*
Use of temperature detector for cables. H. B. Dwight. Elec W 85:506-7 Mr 7 '25

See also Dielectric constants; Dielectric losses; Dielectrics; Electric currents; Electric engineering—Tables, calculations, etc.; Electric meters; Electric radiation; Electric resistance; Electric testing; Electric waves; Electrometer; Galvanometers; Inductance; Magnetic measurement; Oscillographs; Overvoltage; Radio measurement; Thermocouples; Voltmeters; Voltmeters, Recording; Wheatstone bridge

ELECTRIC merchandizing. See Electric apparatus and appliances—Merchandizing; Electric industries; Electric shops (retail trade)

ELECTRIC meters
Accurate metering. S. H. Richards. Elec R (Lond) 93:726-8, 789-91 N 16-23 '23
Das asymmeter, ein zeitgemässes instrument für überlandwerke. C. Schmittutz. il diag Elektrotech Zeit 46:925-6 Je 18 '25
Ball type of kva. meter. B. H. Smith. diags Elec W 83:333-4 F 16 '24
Change coil multi-range test set. il diag Engineer 139:279 Mr 6 '25
Color code meter cables and test blocks. diags Elec W 84:319 Ag 16 '24
Demand-meter attachments to prevent errors. R. L. Weber. il Elec W 82:1071-2 N 24 '23
Direkt anzeigende scheinverbrauchszähler. R. Kopp. diags Elektrotech Zeit 46:594-7 Ap 16 '25
Electric meter history and progress. R. C. Lanphier. 78p Sangamo electric co., Springfield, Ill. '25
Electric range metering. Elec W 83:290, 431 F 9, Mr 1 '24
Electrical metering instruments in the pulp and paper making industry. O. C. Cordes. il Paper Tr J 78:48-51 Ap 24 '24
Engineering features of the Philadelphia electric company system. W. C. L. Eglin. il diags plan Elec W 83:945-50 My 10 '24
Handbook for electrical metermen. 4th ed. 1242p Nat. elec. light assn., New York '23
Handling and storing electric meters. il Management & Adm 8:610 D '24
Holders for good and bad meter pivots. K. Bausman. Elec W 85:257 Ja 31 '25
Induktionszähler für einphasigen wechselstrom, hergestellt von der firma Bopp & Reuther in Mannheim-Waldhof. diag Elektrotech Zeit 45:1032-3 S 25 '24
Investigation of demand meter troubles; report of committee of Pacific coast electrical association. J Elec 52:450-1 Je 1 '24
Iron and steel electrical engineers discuss metering problems. Power 60:823-4 N 18 '24
Keeping power plant instruments accurate. il Management & Adm 8:626 D '24
Messgeräte und messverfahren; der überverbrauchszähler, u.s.w. il diags Elektrotech Zeit 46:590-8 Ap 16 '25
Meter accuracy discussed. Elec W 83:639 Mr 29 '24
Metering of three-phase power; the effect of abnormal conditions on single-phase and polyphase meters. G: D. Malcolm. diag Elec R (Lond) 97:689-90 O 30 '25
Metering 3-phase 4-wire service. F. B. Patterson. diags Sibley J 37:199-200 N '23
Metering unbalanced loads on transformers. W. F. Walsh. diags Elec W 85:617-18 Mr 21 '25
Neues messwerk für quotientenmesser. E. Künnel. il diags Elektrotech Zeit 45:1002-3 S 18 '24
New kilovolt-ampère demand meter. il diags Engineer 137:519-20 My 9 '24
Portable meter shows cost of using appliances. il Elec W 84:1267 D 13 '24
Power-factor metering equipment. C. B. Wright. il Elec W 84:73-4 Jl 12 '24
Power factor tariffs. E. W. Dorey. il Electrician 92:564-6 My 9 '24
Proper sizes of meters for various installations; report of Pacific coast electrical association. J Elec 54:442-4 Je 1 '25
Recent developments in kilovolt-ampere metering. B. H. Smith and A. R. Rutter. il diags Am Inst E E J 43:441-5 My '24; Discussion. 43:1176-8 D '24
Remote metering by the impulse and condenser method. B. H. Smith. il diags Elec J 21: 355-7 Ag '24
Royal society conversazione; some new measuring instruments. il diags Electrician 92: 631-2 My 23 '24
Scheinverbrauchszähler nach dem kugelprinzip. il diag Elecktrotech Zeit 46:970-1 Je 25 '25
Selection, use and care of recording electrical meters. J. E. Housley. il Power 61:690-2 My 5 '25
Ein störungsmelder für gleich- und drehstromzähler. F. C. Auermann. diags Elektrotech Zeit 45:304-5 Ap 3 '24
Switchboard meters for power plants. J. E. Housley. il Power 62:362-4 S 8 '25
Universal meter for electric power. il Management & Adm 7:446 Ap '24
Universal meter for electric power; abstracts. B. H. Smith. il diags Elec J 21:112-14 Mr '24; Elec R (Lond) 94:631-2 Ap 18 '24; Sibley J 38:120-3 My '24
Use of special a.c. instruments. il diags Power Pl Eng 29:78-81 Ja 1 '25
Various phases of metering; report of Pacific coast electrical association. J Elec 54:439-44 Je 1 '25
Das verhalten falschgeschalteter drehstromzähler in hochspannungsanlagen. H. Ziemendorff. diags Elektrotech Zeit 45:952-5 S 4 '24
Der wasserstoff-elektrolytzähler der Siemens-Schuckertwerke. K. Kessler and W. v. Krukowski. il diags Elektrotech Zeit 46: 1299-1302 Ag 27 '25
What does the power that we needlessly waste cost us? C: A. Swartz. il Coal Age 26:47-9 Jl 10 '24

See also Ammeters; Electric measurement; Electric testing; Frequency meters; Klydonograph; Microfarad meter; Voltmeters; Watt-hour meters; Wattmeters; Wavemeters

Inspection

Proper inspection of meter wiring important. W. C. Devin. Elec W 82:1278 D 22 '23
Systematizing inspection for theft of energy. A. A. Barbera. Elec W 83:294 F 9 '24

Installation

Connecting meters within eight hours. J. H. Thomas. Elec W 82:1126-7 D 1 '23
Connecting up power factor meters. E. H. Stivender. diag Power 59:832 My 20 '24
Efficient handling of meter orders. R. E. Naylor. il Elec W 85:707-10 Ap 4 '25
Facts versus fancies in the meter-service switch question. J. Sachs. il Elec W 84: 1049-54 N 15 '24; Discussion. 84:1360-1; 85: 202-3 D 27 '24, Ja 24 '25
Fundamentals of meter service. R. C. Fryer and L. J. Gregory. il diags Elec W 83:1003-6 My 17 '24; Discussion. G. E. Palmer. 83: 1225-7 Je 14 '24
Installing 28 services daily with two men. il Elec W 85:1133 My 30 '25
Meter installations. diags Elec W 84:221 Ag 2 '24
Meter installations and line crossings. Elec W 84:796 O 11 '24
Mounting and wiring for meter installations. diags Elec W 84:274 Ag 9 '24
Multi-meter cabinet saves space in installations. il J Elec 55:252 O 1 '25
Portable meter-and-service-switch cabinet for outdoor use. K: Bausman. il diags Elec W 85:719-20 Ap 4 '25
Public utility has right to seal meter box, even when property of patron, commission rules. N E L A Bul 12:38 Ja '25
Standardized meter houses for outdoor service. E. C. Ferree. il J Elec 55:248 O 1 '25
Time study in meter work betters service. F. H. Pumphrey. il Elec W 84:120-1 Jl 19 '24

ELECTRIC meters—*Continued*

Records

Automatic transmission of power readings. B. H. Smith and R. T. Pierce. il diags Am Inst E E J 43:101-5 F '24; Discussion. 43: 1178-80 D '24

Meter record system. W. L. Carr. il Elec W 86:567-8 S 19 '25

Posting meter constants helps to maintain confidence. W. T. Ryan. il J Elec 54:57 Ja 15 '25

Record system for meters and transformers. il Elec W 85:461-2 F 28 '25

Transmission and summation of meter readings by use of distant dial. R. E. Thatcher. il Elec W 84:1311-12 D 20 '24

Transmission of meter readings by the impulse method. B. H. Smith. il diags Elec J 21:219-21 My '24

Repair

Reconditioning old meters. K. H. Bausman. Elec W 85:150 Ja 17 '25

Storage

Demountable meter racks cost $40 per section. W. A. Forbush. il Elec W 84:527-8 S 13 '24

Testing

Diagrammatic board for testing alternating current meters. G. E. Moore. il Electrician 93:155 Ag 8 '24

Facilities for standardization of instruments and rotating standards. J. R. Halladay. il diag plan Elec W 85:1029-31 My 16 '25

Field testing equipment and its maintenance. H. F. Leeper. Elec W 82:1023 N 17 '23

How to check instrument transformer and meter connections. V: H. Todd. diags Power 58:413-15 S 11 '23; Same. Coal Age 24:851-3 D 6 '23

Improving regularity of meter testing. J: Kelly. Elec W 82:971-2 N 10 '23

Keeping periodic tests up to date. W. F. Walsh. Elec W 85:1131 My 30 '25

Meter and instrument test board. C. E. Blaisdell. il diag Elec W 86:856-7 O 24 '25

Meter regulation in Texas. W. T. Henrichson. Elec W 85:776 Ap 11 '25

Meter testing handled by substation operator. J. W. W. Walker. il Elec W 82:1177 D 8 '23

Semi-graphic record of meter tests. S. Green. Elec W 86:702 O 3 '25

Simultaneous testing of eighty meters. J. S. Cruikshank. il Elec W 85:306-7 F 7 '25

Testing for faulty meter armatures. K. H. Bausman. diag Elec W 85:208 Ja 24 '25

Testing 100,000 meters yearly. W. R. Frampton, G. E. Decker and W. J. McCullough. il plan Elec W 85:1067-9 My 23 '25

Tests on accuracy of reactive metering. A. E. Knowlton. diags Elec W 82:1309-14 D 29 '23

See also Watt-hour meters—Testing

ELECTRIC mine hoisting. See Mine hoisting, Electric

ELECTRIC moments of molecules. See Molecules

ELECTRIC motor generators

New arc welding generator. A. M. Candy. diags Elec J 21:413-16 S '24

Operation of converting apparatus. V. E. Johnson. diags Power Pl Eng 28:855-7 Ag 15 '24

Selection of a single-operator arc-welding motor-generator set. M. S. Hancock. Elec J 21:269-72 Je '24

Self-regulating motor-generator. il Electrician 92:571 My 9 '24

Small-unit charging sets for electric trucks. il Elec W 83:1241 Je 14 '24

Synchronous motors relieve standby generators. H. D. Fisher. Power Pl Eng 27:1236 D 15 '23

22,000-volt motor generator locomotives. il diag Engineer 139:334-5 Mr 20 '25

See also Converters, Electric; Converters, Synchronous; Frequency changers

ELECTRIC motors

A.c. and d.c. electric motors. diags Power Pl Eng 29:54-5 Ja 1 '25

Application of electrical machinery in water works. F. C. Bolton. Eng & Contr (W W) 62:68-73 Jl 9 '24

Development of the electric motor. A. G. Popcke. Sibley J 39:260+ F '25

Developments in electric drive for central station auxiliaries. J. W. Dodge. il diags Gen Elec R 27:404-14 Je '24

Diseases and cures of dynamos and motors; chart showing various difficulties encountered and methods of overcoming them. W: Voss. Metal Ind 23:16-17 Ja '25

Die eigenschaften des motorisolators. M. F. Dahl. il diag Elektrotech Zeit 45:1034 S 25 '24

Electric coal-cutter motors. P. Huggins. il diags Elec R (Lond) 97:244-8 Ag 14 '25

Electrical construction. E. E. Browne. J Elec 52:56-7 Ja 15 '24

Elektromotor, rohölmotor oder benzolmotor? W. Windel. Elektrotech Zeit 46:302-4 F 26 '25

Features of electric truck motors. C. A. Atwell. il Elec W 85:453-6 F 28 '25

Four-speed motor changed to single speed and different voltage. A. C. Roe. diags Ind Eng 82:398-9 Ag '24

General purpose motors. Elec Ry J 65:775 My 16 '25

Generators and motors. D: P. Moreton, A. C. Roe and C. H. Dunlap. 229p American technical soc., Chicago '24

How to choose motors for driving industrial fans. R. H. Rogers. il Chem & Met Eng 30: 231-3 F 11 '24

How to line up a motor pinion with the gear it drives. D. A. Hampson. diags Ind Eng 83: 398-9 Ag '25

Ideal refrigerator motor specified. Elec W 85: 1051-2 My 16 '25

Industrial motors. Ind Eng 83:72-6 F '25

Industrial motors. A. J. Whitcomb. il Ind Eng 82:69-72 F '24

Installation and design of enclosed motors. C. N. Johnson. Textile World 64:2863+ N 10 '23

Maintenance; gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 34:256-60+ F '25

Moderate-powered direct-coupled back-geared motor. E. G. Ross. Elec R (Lond) 95:684-5 N 7 '24

Les moteurs asynchrones synchronisés. Génie Civil 85:302 O 4 '24

Motor-driven circulating pumps. H. B. Seeley. Elec W 84:689-91 S 27 '24

Motor service for power users; Baltimore company carries a stock of motor equipment. R. C. Niles, jr. il Elec W 85:519-20 Mr 7 '25

Motor speed important factor in selection of drive. F: Krug. Ind Eng 82:251-2 My '24

Motors for ship propulsion. L: J. Hunt. diags Electrician 93:93-4 Jl 25 '24

Principles of electric motors and control. G. Fox. 499p McGraw-Hill '24

Self starting principle reduces motor size. il Iron Tr R 75:490 Ag 21 '24

Small electric motors, d.c. and a.c. E. T. Painton. 118p Pitman '23

Small or large motors for industrial plants. M. G. Farrell. il Power Pl Eng 29:901-5 S 1 '25

Unusual conditions cause motors to run backward. G. Cooley. diags Elec W 84: 1310 D 20 '24

Urges fundamental changes rather than mechanical modifications. K. L. Hansen. Elec W 83:1333 Je 28 '24

Use of constant and variable speed motors for driving water and sewage pumps. L. F. Adams. il diags Am Water Works Assn J 10:959-72 N '23

Wood and metal-working machinery motor requirements. H. C. Jorstad. il Elec W 83: 519-21 Mr 15 '24

Zahnamperewindungen. F. Blanc. Elektrotech Zeit 46:688-90 My 7 '25

See also Armatures; Automobiles—Electric equipment; Coils; **Commutators; Electric controllers**; Electric driving; Electric

ELECTRIC motors—*Continued*

locomotives; Electric machinery; Electric motor generators; Electric motors, Alternating current; Electric motors, Direct current; Electric motors, Induction; Electric motors, Railway; Electric motors, Synchronous; Electric power; Electric transformers; Electricity in mining; Electricity in petroleum industry; Pumping machinery, Electric; Rotors

Bearings

Anti-friction bearings for electric motors. C. H. S. Tupholme. diags Elec R (Lond) 96: 447-8, 509-10 Mr 20-27 '25

Application of ball bearings to general-purpose motors. diag Ind Eng 82:502-3 O '24

Bearings for electric motors. J. L. Jones. Metal Ind 22:447 N '24

Bearings for horizontal general-purpose motors. H. Maxwell. W Soc E J 30:1-5 Ja '25; Same. Ind Eng 83:12-16 Ja '25; Discussion. W Soc E J 30:11-12 Ja '25; Ind Eng 83:16-18 Ja '25

Changing housings to use ball bearings. R. W. Drake. il diags Ind Eng 82:216-19+ My '24

Method of installing ball and roller bearings. J. H. Gallant. diags Ind Eng 82:99-100 F '24

Possible improvements in bearing service. G. A. Van Brunt. Ind Eng 82:264-6; Discussion. 266-70+ Je '24

Proper care of motor bearings essential to good service. G: B. Heron. Ind Eng 83:299 Je '25

Relative merits of different types of motor bearings. F. E. Boyd. Power 59:641 Ap 22 '24

Roller bearing service in mill-type motors. L. J. Hess. il Ind Eng 82:164-8 Ap '24

Sleeve bearing keeps oil from spattering motor. R. Pruger. il Coal Age 25:945-7 Je 26 '24; Same. Eng & Min J 118:74-5 Jl 12 '24

Sleeve bearing; new leakproof type developed for electric motors. il Textile World 65:3823 Je 7 '24; Same cond. Elec Ry J 63:965 Je 21 '24

Some pointers on repairing bearings and shafts. R. Pruger. Elec J 20:454-6 D '23

Use of an improved type of sleeve bearing. J. S. Murray. il diag Ind Eng 83:473-5 O '25

Ways to cure sleeve bearing troubles. R. Pruger. il diags Ind Eng 82:113-17 Mr '24

Care

Maintenance: gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 34:419-25+ Mr '25

Maintenance of large motors in steel mills. O. Needham. il diags Ind Eng 83:423-6+ S '25

Control

Die anwendung der arbeitsregler-antriebes. O. Pollok. il diags Zeit Ver Deutsch Ing 68:6-8, 29-31 Ja 5-12 '24

Automatic control of auxiliaries. F. M. Billhimer. il diags Elec W 85:551-4 Mr 14 '25

Control of auxiliary-drive motors. A. L. Harvey. il Power 59:761-2 My 13 '24

Control of electric motors on circuits with fluctuating voltage. A. L. Harvey. Elec J 22:123-4 Mr '25

Easily-made trip coil for remote control of motors or feeders. E. J. Ford. il diag Ind Eng 82:394 Ag '24

Electric motor-control gear at the British Empire exhibition. il diag Engineering 118: 580 O 24 '24

Electrical construction. E. E. Browne. diags J Elec 52:132-5 F 15 '24

Electrical equipment for machine tools. J: W. Harper. il Am Mach 61:215-17, 261-4 Ag 7-14 '24

Industrial motor control. J: Liston. il Gen Elec R 28:22-5 Ja '25

Mill-type magnetic-time control system. J. D. Wright. il diag Gen Elec R 28:243-7 Ap '25

Motor speed control. il Electrician 94:367 Mr 27 '25

Motors and control—Weymouth power station the Edison electric illuminating co. of Boston. Am Inst E E J 43:849-50 S '24

One alarm clock saves a mile of control line. R. R. Webster. il diag Coal Age 27:881-2 Je 11 '25

Paper mill power drive and motor control layout. C. S. Newcomb. il Ind Eng 83:510-16 N '25

Service and construction of electrically-operated brakes used to retard or hold rotating parts. A. J. Whitcomb. il Ind Eng 82: 271-4+, 317-20+ Je-Jl '24

Story of motor control. A. W. Berresford. il Elec W 84:633-6 S 20 '24

See also Electric motors, Alternating current—Control; Electric motors, Induction—Control; Electric motors, Synchronous—Control

Cooling

Ventilating electrical machinery. il Iron Tr R 75:1443-6 N 27 '24

See also Electric motors, Induction—Cooling

Design

Dynamo and motor design; recent developments in electrical machinery. F. Creedy. diags Electrician 93:226-8, 252-3, 312-13 Ag 29-S 5, 19 '24

Drying

Electric heaters for drying out large motor. S. H. Samuels. il Ind Eng 82:202 Ap '24

Motors successfully dried out after five days under water. il Coal Age 26:340 S 4 '24

Successfully drying out mine motors. Elec W 84:1209 D 6 '24

Failures

Explosion of totally-inclosed motor. Ind Eng 81:601 D '23

Visual record system for motor failures. C. D. Hazen. il Ind Eng 83:517-18+ N '25

Fractional horsepower

Performance of small portable drill motors. E. L. Connell. il diags Ind Eng 82:235-7 My '24

Routing and handling material in making a quarter-horsepower motor. L. C. Morrow. il plans Am Mach 61:291-4, 333-6, 389-92 Ag 21-S 4 '24

Vogue of the small electric motor. Elec R (Lond) 94:829-30 My 23 '24

Lubrication

Lubrication methods for motor bearings operating in hot locations. J. E. Housley. Ind Eng 82:597-8 D '24

Manufacture

Applies electric arc to production work. E. F. Ross. il Iron Tr R 77:125-8+ Jl 16 '25

Costs lowered by arc welding. il Iron Age 116: 70-1 Jl 9 '25

Electric welding applied to motor building. il Elec W 84:423 Ag 30 '24

Improved production of electric motors. Elec R (Lond) 96:606-8 Ap 17 '25; Discussion. 96:733-4 My 8 '25

Modern electric motor works; a visit to the Empress works, Huddersfield, of Messrs. E. Brook, ltd. il Elec R (Lond) 96:901-3 Je 5 '25

Molding motor end brackets. il diags Foundry 52:735-6 S 15 '24

New way to make welded steel electric motors. W. W. Baxter. il Ry R 77:643-5 O 24 '25

Routing and handling material in making a quarter-horsepower motor. L. C. Morrow. il plans Am Mach 61:291-4, 333-6, 389-92 Ag 21-S 4 '24

Welding applied to motor production. J. F. Lincoln. il Management & Adm 10:37-9 Jl '25

ELECTRIC motors—Manufacture—*Continued*
When are tools and patterns obsolete? F. M. Kimball. Elec W 83:1354-5 Je 28 '24

See also Electric motors, Induction—Manufacture; Electric motors, Railway—Manufacture

Mounting

Modern methods of mounting motors. il Am Mach 62:242-3, 318-19, 428-9, 541-2, 612-13, 696-7, 741, 776-7, 841, 1001; 63:508 F 5, 19, Mr 12, Ap 2, 16, 30-My 14, 28, Je 25, S 24 '25
Mounting a motor with a belt guard to give headroom. D. A. Hampson. il Ind Eng 83: 451 S '25
Some practical ways of mounting small motors. H. S. Knowlton. il Ind Eng 81: 591-3+ D '23

Prices

Motor price reductions discussed. Elec W 85: 1101-2 My 23 '25

Protection

Aufstellung von elektromotoren nebst zubehör in feuersicheren schränken. il Elektrotech Zeit 45:1033-4 S 25 '24
Low-voltage protection as a source of trouble. J. A. Vanderpoll. diag Elec W 84:1111-12 N 22 '24
Protecting transformers and motors from damage resulting from single-phasing. J. F. McWilliams. diags Coal Age 24:741-2 N 15 '23
Protection of electrical equipment. V: H. Todd. il diags Power Pl Eng 28:492-4 My 1 '24
Vergangenheit und gegenwart des motorschutzes. E. Besag. Elektrotech Zeit 46: 1190-3 Ag 6 '25

See also Electric motors, Alternating current—Protection

Rating

Electric power club approves 40-deg. single rating for general-purpose motors. Elec W 83:1196 Je 7 '24
Methods used in rating motors. Power Pl Eng 29:247-8 F 15 '25

Records

Visual record system for motor failures. C. D. Hazen. il Ind Eng 83:517-18+ N '25

Renting

Renting motors instead of selling them. D. G. Baird. Elec W 85:122 Ja 10 '25

Repair

Dipping and baking motors for industrial service. R. E. Ferris. plan Elec J 20:446-8 D '23
Human nature in the maintenance of motors. P. McShane. Elec J 20:464-6 D '23
Motor repair shop. il Elec R (Lond) 97:290-1 Ag 21 '25
Motor rewinding jobs sold on a percentage business. chart J Elec 52:210-11 Mr 15 '24
Reconnecting two-phase motor for three-phase. A. C. Roe. Ind Eng 82:256 My '24
Rewinding and repairing armatures and motors. C. A. Williams. il Ind Eng 83:524-8+ N '25
Rewinding small motors. D. H. Braymer and A. C. Roe. 247p McGraw-Hill '25

See also Armatures—Repair; Electric motors, Alternating current—Repair; Electric motors, Railway—Repair

Standards

British standard specification for the electrical performance of industrial electric motors and generators with class A insulation. 31p British engineering standards assn., London '23
Motor standardization of the Electric power club. Power Pl Eng 28:553 My 15 '24

Starting

Die berechnung von anlasswiderständen nach den REA. W. Haage. Elektrotech Zeit 45: 975-6 S 11 '24
Selecting motors for frequent starting. C. B. Hathaway. Elec J 22:89-91 F '25

See also Electric motors, Induction—Starting; Electric motors, Synchronous—Starting

Starting devices

Automatic electric motor starting-gear. il diags Engineering 116:713, 716 D 7 '23
British standard specifications; reports 117, 140, 141, 147, 155, 167. British engineering standards assn., London '23
Motor-starting equipment; the lack of standardization. F. W. Davies. Elec R (Lond) 96:805-7 My 22 '25

Testing

Portable motor testing table and motor record system. J. F. Morgan. diags Ind Eng 83: 297-8 Je '25
Simple prony brake for testing small and medium sizes of motors. S. H. Samuels. diag Ind Eng 83:353-4 Jl '25
Use of tapped auto-transformers in testing motors. H. B. Hodgins. diags Power 61: 725-6 My 12 '25

Vibration

Ways of eliminating vibration in electric motors. F: Krug. Ind Eng 81:604-5 D '23

ELECTRIC motors, Alternating current
Adjustable-speed alternating-current motor with shunt characteristics. H. C. Uhl. il diag Gen Elec R 28:248-57 Ap '25
Allis adjustable delivery motor drive. il diag Power 62:222 Ag 11 '25; Power Pl Eng 29: 1072-3 O 15 '25
A.C. motors; methods of obtaining variable speeds. H. Dreghorn. Electrician 92:693 Je 6 '24
Atkinson-type repulsion machine as a motor and generator. F. J. Teago. diags Inst E E J 62:720-6 Ag '24
Characteristics of a.c. motors. il diags Power Pl Eng 29:60-2 Ja 1 '25
Drehstrom-senkbremsschaltung; abstract. diags Elektrotech Zeit 45:242 Mr 20 '24
Druckschalter mit motorschutz für drehstrommotoren. diags Elektrotech Zeit (special no.) 45:41-2 Ag 28 '24
Harmonics in single-phase series motors. R. Liljeblad. Elec W 83:103 Ja 12 '24
Heylands neuer drehfeldmotor mit stromwender und wendefeld. M. Breslauer. diag Elektrotech Zeit 46:811-12 My 28 '25
Die kaskadenschaltung zweier asynchronmotoren, von denen einer einen einphasenrotor besitzt. C. Schenfer. il diags Elektrotech Zeit 46:801-4 My 28 '25
Die kommutierungscharakteristiken des einphasenkollektormotors. K. Krauss. Elektrotech Zeit 45:876-8 Ag 14 '24
Locating faults in electric elevators—alternating-current motors. C: A. Armstrong. il diags Power 62:604-7 O 20 '25
Motor performance on combined secondary networks. A. P. Fugill. Elec J 22:316-19 Jl '25
Ein neuer kurzschlussmotor. diags Zeit Ver Deutsch Ing 69:914-15 Jl 4 '25
New type of single-phase motor. S. R. Bergman. diags Am Inst E E J 43:599-603 Jl '24; Same cond. Power Pl Eng 28:811-14 Ag 1 '24; Discussion. Am Inst E E J 44: 386-9 Ap '25
Notes on variable speed a.c. motors. N. Pensabene-Perez. Engineer 139:624 Je 5 '25
Parkinson Tork motor; a method of overcoming the disadvantages of single-phase distribution. il diags Electrician 95:59-61, 92-3+ Jl 17-24 '25
Polyphase commutator motor progress. A. Heyland. Electrician 95:4-5 Jl 3 '25
Rotating magnetic field theory of a-c. motors. K. L. Hansen. Am Inst E E J 44:170-8 F '25

ELECTRIC motors, Alternating current—*Cont.*
Der schleifringlose kompensierte drehstrommotor. il Elektrotech Zeit (special no.) 46: 25 Mr 1 '25
Single phase repulsion motor. G. Windred. diags Electrician 94:508-9 My 1 '25
Single-phase variable-speed motors. N. P. Perez. Elec R (Lond) 94:364-5 Mr 7 '24
Turbine- and boiler-room auxiliaries; abstracts. G. G. Bell. Mech Eng 47:188-91 Mr '25; Power 61:356, 589-90, 710-11 Mr 3, Ap 14, My 5 '25
Type B T A adjustable speed motor. il Chem & Met Eng 31:669 O 27 '24
Variable speed 3-phase motors at the British Empire exhibition. il diags Engineering 117: 658-60 My 23 '24
Zusätzliche verluste in kleinen drehstrommotoren. R. Vieweg. Elektrotech Zeit 45: 988-9 S 11 '24; Discussion. 46:1011-16 Jl 2 '25

See also Electric motors, Induction; Electric motors, Synchronous

Control
Methods of controlling speed of a.c. motors. il diags Power Pl Eng 29:62-5 Ja 1 '25
Principles of alternating current control. G. Fox. diags Power Pl Eng 27:1138-41, 1185-8 N 15-D 1 '23

Design
Normung der statorspulen eines wechselstrommotors in nomographischer behandlung. A. V. Hellborn. diags Elektrotech Zeit 46:1031-3 Jl 9 '25

Protection
Circuit breakers for feeders and a.c. motors. J. H. Wyatt. il diags Ind Eng 82:574-9+ D '24

Repair
Changing single-phase motors to 2- or 3-phase. A. C. Roe. Ind Eng 82:232-4+ My '24
Rewinding motor for speed and voltage charge. A. C. Roe. diag Ind Eng 83:45 Ja '25
Tables for use in making voltage changes on a.c. motors. A. C. Roe. il Ind Eng 82: 131-7 Mr '24

Specifications
Erläuterungen zu den normblättern DIN VDE 2660, 2701 und 2702 für drehstrom-kranmotoren. C. Schiebeler. diags Elektrotech Zeit 45:169-72 F 28 '24

Starting
Die anlaufverhältnisse beim drehstrommotor mit kurzschlussläufer und ihre messung. R. Elsässer. il Elektrotech Zeit 45:1064 O 2 '24
Drehstrommotoren mit selbstanlauf. A. Weddige. il diags Zeit Ver Deutsch Ing 68:173-6 F 23 '24

Tables, calculations, etc.
Beitrag zur symbolischen rechnung. A. Thomälen. diags Elektrotech Zeit 46:1187-90 Ag 6 '25
Calculating the torque of a single-phase motor from theory may introduce errors. K. L. Hansen. Elec W 83:94 Ja 12 '24
Some graphical methods; geometrical solutions of two alternating-current problems. W: Cramp. diags Elec R (Lond) 97:249-51 Ag 14 '25

Testing
See also Electric motors, Induction—Testing

Windings
Laying out wave windings for a.c. motors. A. C. Roe. diags Ind Eng 82:483-9+, 532-7+, 580-3 O-D '24
Winding and connecting small single-phase motors. C. A. M. Weber. il Elec J 21:377-82 Ag '24

See also Electric motors, Induction—Windings

ELECTRIC motors, Direct current
Brooks Sayers dynamo electric machinery. il diags Engineering 119:68, 69 Ja 16 '25
Causes of direct-current motors overspeeding. D. R. De Tar. diags Power 59:652 Ap 22 '24
Changing a direct-current generator into a motor or vice versa. B. A. Briggs. diags Power 60:486-7 S 23 '24
Changing a series motor to shunt or a shunt to a series. A. C. Roe. diags Power 59:721-2 My 6 '24
Characteristics of a d. c. series machine self-excited by rectified current for purposes of regenerative control. R. D. Archibald. diags Inst E E J 62:233-42 Mr '24; Discussion. 62: 648-50 Jl '24
Checking field-coil connections on direct-current machines. A. C. Roe. diags Power 59:601-2 Ap 15 '24
Direct current dynamo and motor faults. R. M. Archer. 204p [bibliog. p. 199-200] Pitman '24
Direct-current dynamometers. S. Hancock. il diags Elec J 22:385-9 Ag '25
Economics of power consumption; with special reference to small d.c. motors. D. J. Bolton. Inst E E J 62:901-8 N '24
Factors affecting the design of d-c. motors for locomotives. R. E. Ferris. Am Inst E E J 44:481-9 My '25
Iron losses in d.c. machines. E: Hughes. Inst E E J 63:35-50 D '24; Abstract. Elec R (Lond) 96:677-8 Ap 24 '25; Discussion. Inst E E J 63:687-9 Jl '25
Les moteurs électriques à bord des navires. F. Collin. Génie Civil 86:515-17 My 23 '25
Motors for commercial electric vehicles. C. A. Atwell. il Elec J 21:33-5 Ja '24
Number of commutating poles used in direct-current machines. J. A. Elzi. diags Elec J 22:129-31 Mr '25
Reconnecting direct-current machines—change in speed. A. C. Roe. diags Power 60:212-15, 363-5 Ag 5, S 2 '24
Speed and torque characteristics of the Austin motor. J. C. Macfarlane. diags Engineer 139:440 Ap 17 '25
Types and characteristics of d.c. motors. C: G. Green. diags Power Pl Eng 29:596-7 Je 1 '25
Types of direct current motors. il diags Power Pl Eng 29:56-8 Ja 1 '25

Control
Methods of controlling speed of d.c. motors. diags Power Pl Eng 29:58-60 Ja 1 '25
Regelung der drehzahl von gleichstrommotoren mittels glühkathodenröhren. W. Taeger. Elektrotech Zeit 45:96-8 F 7 '24
Speed regulator for single motor drive. J. H. Ashbaugh. il diags Elec J 21:390-3 Ag '24
Traction motor control (direct current). A. T. Dover. 114p Pitman '23
Widerstandsauslegungen für im scharf aussetzenden betriebe arbeitende gleichstromhauptschlussmaschinen. H. Winkler. diag Elektrotech Zeit 45:737-40 Jl 10 '24

Repair
How to locate a reversed field coil without a compass. Power 61:955 Je 16 '25; Discussion. H. H. Young. 62:259 Ag 18 '25

Starting
Calculating starting resistance for d.c. motors. Ind Eng 83:389-92 Ag '25
Direct-current motors fail to start. B. A. Briggs. diags Power 61:822-4; 62:242-4, 484-6 My 26, Ag 18, S 29 '25
Ein neuer selbstanlasser für gleichstrom. P. Hennig. il diags Elektrotech Zeit 46:1310-12 Ag 27 '25
Starters for direct-current motors. R. B. Hunter. il diags Power 62:129-31 Jl 28 '25

Testing
Direct-current motors fail to start—testing for the trouble. B. A. Briggs. diags Power 62:484-6 S 29 '25

ELECTRIC motors, Direct current—Testing —*Continued*
Prüfung eines 3900 kw gleichstrom-motors; abstract. diag Elektrotech Zeit 45:188-9 Mr 6 '24
Series motors and the Hopkinson test. H. Cotton. Elec R (Lond) 96:729-30 My 8 '25
Testing direct-current motors. J. E. Housley. diags Power 61:95-7 Ja 20 '25
Tests for determining type of direct-current machines. B. A. Briggs. il diags Power 60: 573-6 O 7 '24
Tests to make on direct-current motors when putting them into service. C: A. Armstrong. diags Power 60:398-400 S 9 '24
Trouble shooting in d.c. motors and generators. C: G. Green. diags Power Pl Eng 29: 1054-6 O 15 '25

Windings

Figuring a new winding for an old direct-current machine. A. C. Roe. Power 60:757-61 N 11 '24

ELECTRIC motors, Induction
Allis-Chalmers anti-friction bearing induction motors. il Eng & Contr (Equip R) 64:733 S 30 '25; Eng & Min J 120:515 S 26 '25; Textile World 68:2059 O 3 '25
Asynchronous unity-power-factor motor. V. A. Fynn. il Elec W 85:816-18 Ap 18 '25; Discussion. 85:1130; 86:317, 416 My 30, Ag 15, 29 '25
Change-speed induction motors. C. W. Kincaid. il diags Elec J 21:357-63 Ag '24
Connecting induction motors. A. M. Dudley. 2d ed., rev. & enl. 361p McGraw-Hill '25
Design of induction motor slots. L. C. Wharfe. il Electrician 95:236-7 Ag 28 '25
Details of alternating-current motors. il Power Pl Eng 29:68-70 Ja 1 '25
Development of low starting current induction motors. P. L. Alger. il diags Gen Elec R 28:499-508 Jl '25
Drehstrommotor mit kurzschlussläufer für kleinen anlaufstrom. R. Richter. il diags Elektrotech Zeit 46:6-8 Ja 1 '25
Drehzahlregelung von asynchronmotoren durch netzerregte drehstrom-erregermaschinen. W. Weiler. Elektrotech Zeit 46:184-6 F 5 '25
Effect of unbalanced secondary conditions on the operation of large induction motors. A. F. Kenyon. diags Elec J 22:435-7 S '25
Effect of unbalanced voltages on the operation of induction motors. O. C. Schoenfeld. Elec J 22:30-3 Ja '25
Elevator operation with alternating-current power supply. C. C. Clymer. il Gen Elec R 28:109-20 F '25
First multiphase induction motor retired from service. Power Pl Eng 29:1041 O 15 '25
Harmonics due to slot openings. C. A. M. Weber and F. W. Lee. diags Am Inst E E J 43:1129-32 D '24
Heyland compensated asynchronous motor in Europe. F. Kade. il Elec W 86:120 Jl 18 '25
How variations in voltage and frequency affect induction motors. Ind Eng 83:396-7 Ag '25
Induction motor characteristics. G. Windred. Electrician 93:578 N 21 '24
Induction motor problem—purchasing. M. Sampson. Textile World 68:1341-2 S 5 '25
Induction motors on unbalanced circuits; vector methods of analysis of unsymmetrical systems. A. M. Dudley. Elec J 21:339-43 Jl '24
Der kurzschlussläufer als bremse im schalterbau. W. Höpp. Elektrotech Zeit 46:46-8 Ja 8 '25
Modification of polyphase induction motor performance by introduction of e.m.f. in secondary. K. L. Hansen. diag Am Inst E E J 42:1321-4 D '23
Nature of the magnetic field produced by the stator of a three-phase induction motor, with special reference to pole-changing motors. F. J. Teago. diags Inst E E J 61: 1087-96 O '23; Discussion. 62:178-80 F '24
Neuere fortschritte auf dem gebiete der asynchron-generatoren und asynchronblindleistungsmaschinen. M. Schenkel. diags Elektrotech Zeit (special no.) 45:15-17 Ag 28 '24
New application of the induction motor to signaling devices. P. X. Rice. 25p (Eng. exp. sta. bul. 31) Pennsylvania state college, State College '24
New type of squirrel-cage induction motor with high starting torque. T. F. Wall. bibliog Inst E E J 63:287-94 Mr '25; Same cond. Elec R (Lond) 96:74-5 Ja 9 '25; Abstract. Electrician 94:657 Je 5 '25; Discussion. Inst E E J 63:294-8 Mr '25
Operation of three-phase induction motors under abnormal supply conditions. D. D. Ewing and C. F. Bowman. Power 60:994 D 16 '24; Discussion. 61:150-1, 504 Ja 27, Mr 31 '25
Place of the three-phase induction motor in industry. T. F. Wall. Elec R (Lond) 95: 411-12 S 12 '24; Discussion. 95:486-7, 502 S 26-O 3 '24
Predetermination of the performance of induction motors. D. B. Hoseason. Inst E E J 63:280-6 Mr '25
Principles of induction motor action. C: G. Green. diags Power Pl Eng 29:701-3 Jl 1 '25
Principles of operation of the polyphase induction motor. G. Fox. diags Power 58: 767-8 N 13 '23
Push self-starting motors. J. C. Hobart. Elec W 85:554-5 Mr 14 '25
Securing maximum service from induction motors. P. G. Bernholz. Ind Eng 82:595-6 D '24
Simple method of calculating magnetic conditions in electrical machinery. C. Macmillan. Gen Elec R 28:302-11 My '25
Single-phase induction motor. Elec R (Lond) 94:524-5 Ap 4 '24
Single-phase induction motor. L. M. Perkins. Am Inst E E J 44:499-508; Discussion. 522-3 My '25
Small induction motors. il Electrician 93: 497 O 31 '24
Some of the ways equalizers will reduce unbalance and noise. A. C. Roe. diags Ind Eng 82:24-6+ Ja '24
Squirrel-cage induction-motor core losses. T. Spooner. diags Am Inst E E J 44:32-7 Ja '25; Discussion. 44:659-62 Je '25
Surface iron losses with reference to laminated materials. T. Spooner and I. F. Kinnard. Am Inst E E J 43:723-9 Ag '24; Discussion. 43:1175-6 D '24
Synchronous versus induction motors. Power 62:58 Jl 14 '25
Die theorie und wirkungsweise der kompensierten asynchronmotoren. Kade. il diags Elektrotech Zeit 45:456-61 My 8 '24
Theory and calculation of the squirrel cage repulsion motor. H. R. West. diags Am Inst E E J 43:783-90 S '24; Discussion. 44:280-2 Mr '25
Types of motors for different uses. Power Pl Eng 29:65-7 Ja 1 '25
Über die kaskadenschaltungen zweier kollektorloser induktionsmaschinen. J. Tscherdanzev. diags Elektrotech Zeit 46:1219-23 Ag 13 '25
What happens during single-phase operation of polyphase motors. R. G. Warner and W. B. Hall. il Ind Eng 83:185-7+ Ap '25; Discussion. 83:298-9 Je '25
Wound-rotor induction motors and synchronous motors for rolling mill service. G. E. Stoltz. il diags Elec J 22:421-7 S '25

See also Electric motors, Synchronous

Control

Control of the speed and power factor of induction motors. M. Walker. 151p Van Nostrand '24
Induction motor problem—controls. M. Sampson. Textile World 68:2787+ N 7 '25
Polyphase induction motors; notes on methods of starting and speed control. G. Windred. Electrician 92:190-1 F 15 '24
Regenerative braking of induction motors. K. L. Hansen. Elec W 84:846-7 O 18 '24

Cooling

Ventilation of large induction motors. D. F. Alexander. il diags Elec J 22:534-42 N '25

ELECTRIC motors, Induction—*Continued*

Excitation

Drehstrom-erregermaschine mit fremderregung. J. Kozisek. il diags Elektrotech Zeit 46:142-5 Ja 29 '25

Die drehstromerregung der asynchronmaschine und ihre bedeutung für betrieb und leistungsfaktorverbesserung. O: Irion. il diags Elektrotech Zeit (special no.) 46:15-19 Mr 1 '25

Phase compensation; the use of induction motors and a.c. exciters in relation to power factor improvement. T. Ellis. il diags Electrician 94:590-2+ **My 22 '25**

Manufacture

Extreme variety versus standardization. **J: H. Van Deventer.** il Ind Management 67:343-7 Je '24

New Lincoln induction motor has electric welded frame. il Power 62:32 Jl 7 '25

Repair

Some suggestions for taking care of induction motor slip rings. L. Fokes. diags Ind Eng 82:450 S '24

Starting

Determination of starting torque for motor drives. P. B. Jameson. diags Power 60:527-8 S 30 '24

Effect of full voltage starting on the windings of squirrel-cage induction motors. J. L. Rylander. diags Am Inst E E J 44:115-21 F '25; Abstract. Power 61:278-9 F 17 '25; Ind Eng 83:349-50 Jl '25; Discussion. Am Inst E E J 44:761-5 Jl '25

How single-phase fan motors are started. A. C. Roe. Ind Eng 82:298-9 Je '24

Eine neuartige anlasskupplung (Albo kupplung). K: Obermoser. diags Elektrotech Zeit 46:521-7 Ap 9 '25

New starter designed for Fynn-Weichsel motor. il Coal Age 27:241 F 5 '25

Polyphase induction motors; notes on methods of starting and speed control. G. Windred. Electrician 92:190-1 F 15 '24

Short-circuiting of slip-ring motors. F. E. Bell. diag Elec W 85:927 My 2 '25

Single-phase induction motors and the starting problem. F: W. Davies. Elec R (Lond) 94:31-2 Ja 4 '24

Starting 220-volt induction motor with a 110-volt compensator. A. A. Fredericks. diags Power 60:504 S 23 '24

Throwing large squirrel-cage motors across the line. Ind Eng 83:191-3 Ap '25

Über das selbstanlassen von kurzschlussmotoren durch stromverdrängung. R. Mayer. diags Elektrotech Zeit 45:137-9 F 21 '24

Starting devices

Allen-Bradley resistance type starters. il Textile World 66:1303 S 6 '24; Am Mach 60: 943 Je 19 '24

Design of squirrel-cage motor starters. J. O. Knowles. il Elec R (Lond) 97:404-6 S 11 '25

Type ZO push-button operated oil switch for starting squirrel cage induction motors. il Blast F & Steel Pl 13:263 Je '25

ZO starting switch for induction motors. il Power Pl Eng 29:1122 N 1 '25

Temperature

Reversed-rotation short-circuit temperature-rise of induction motors. J. H. R. Nixon. diags Inst E E J 63:1012-17 O '25

Testing

Testing alternating-current motors. J. E. Housley. il diags Power 61:300-2 F 24 '25

Testing induction-motor rotors. A. A. Fredericks. diag Power 61:999 Je 23 '25

Windings

Changing a.c. windings for different frequencies. A. C. Roe. Ind Eng 82:187-93+ Ap '24

Changing induction motor winding to operate on reduced voltage. A. A. Fredericks. diags Power 58:998 D 18 '23

Diagrams and information on two-and four-speed windings. A. C. Roe. il diags Ind Eng 81:585-90 D '23

Lap windings with unequal coil groups. C. R. Riker and A. M. Dudley. diags Elec J 22:25-9 Ja '25

Methods of laying out motor wave windings. A. C. Roe. il diags Ind Eng 82:428-35+ S '24

What to know about windings having one coil per slot. A. C. Roe. il diags Ind Eng 83:19-22+, 136-9 Ja, Mr '25

Winding induction motors. M. Sandfield. il diags Elec J 20:433-8 D '23; Same cond. Power Pl Eng 28:145-8 Ja 15 '24

ELECTRIC motors, Induction-synchronous

Another new self-excited synchronous induction motor. V. A. Fynn. diags Am Inst E E J 44:164-70 F '25; Discussion. 44:647-9 Je '25

Benefits of power-factor correction; users of Fynn-Weichsel motors give their experience. A. M. Perry and H. C. Anderson. Elec W 85:345-9, 621, 669, 825-6 F 14, Mr 21-28, Ap 18 '25

Fynn-Weichsel motor; a machine with inherent power factor correction and characteristics of an induction motor. V. A. Fynn. il Electrician 91:572 N 23 '23; Discussion. 91:669 D 14 '23

Fynn-Weichsel motor; a power-factor corrective for alternating-current distribution systems. H. Weichsel. il diags J Fr Inst 199: 649-83 My '25

Induction and synchronous features in Fynn-Weichsel motor. il Coal Age 25:141-2 Ja 24 '24

Induction-synchronous motor corrects low power factor. il Power 58:1021-2 D 25 '23; Ry Age 76:297 **Ja 26 '24**

Motor that corrects power-factor. il Management & Adm 6:776-7 D '23

New alternating-current general-purpose motor. H. Weichsel. il diags Am Inst E E J 44:356-63 Ap '25; Discussion. 44:1001-15 S '25

New self-excited synchronous induction motor. V. A. Fynn. diags Am Inst E E J 43:744-8 Ag '24; Discussion. 44:69-70 Ja '25

New separately excited synchronous induction motor. V. A. Fynn. diags Engineering 119: 215-17, 281-3, 243-5 F 20, Mr 6, 20 '25

Power factor correction by motors. F. B. Wipperman. Elec W 86:855 O 24 '25

Pulling into step of a synchronous induction motor. H. Cotton. diags Inst E E J 63:211-30 [bibliog. p. 229-30] F '25; Discussion. 63: 609-13 Je '25

Self-excited synchronous motors. J. K. Kostko. bibliog diags Am Inst E E J 44:604-12 Je '25; Discussion. 44:897-902 Ag '25

Synchronous motor operation; analysis of the phenomenon of pulling into step. H. Cotton. Electrician 92:220-1+ F 22 '24

ELECTRIC motors, Larry car

Specially designed motors for larry-car service. C. A. Atwell. il diag Coal Age 25: 237-8 F 14 '24

ELECTRIC motors, Railway

A B C of the electric car. J: S. Dean. il diags Aera 10:622-3, 824-7; 11:699-701, 1020-3; 12:866-8 F, Ap '22, Ja, Mr, D '23

B.T.-H. light weight ventilated interpole traction motor. il Electrician 96:209 F 20 '25

Characteristics of a d. c. series machine self-excited by rectified current for purposes of regenerative control. R. D. Archibald. diags Inst E E J 62:233-42 Mr '24; Discussion. 62: 648-50 Jl '24

Factors affecting the design of d-c. motors for locomotives. R. E. Ferris. Am Inst E E J 44:481-9 My '25

Four 200-hp. motors on articulated cars. C. W. Squier. il diag Elec Ry J 66:773-8 O 31 '25

Höhere harmonische bei wechselstrom-bahnmotoren; abstract. il diags Elektrotech Zeit 45:754-5 Jl 10 '24

Improved motor suspension. diags Elec Ry J 65:516 Mr 28 '25

Improvement in car equipment. L. Ricaud. Elec Ry J 64:318-19 Ag 30 '24

Sidewear of brushes in railway motors. F. W. McCloskey. il diags Elec J 22:491-3 O '25

ELECTRIC motors, Railway—*Continued*
Spraying varnish inside motor frames. il Elec Ry J 65:515 Mr 28 '25
Through-bolt housings save motor trouble. J. A. Duffy. il Elec Ry J 62:946 D 1 '23

Bearings

Boring armature bearing housings. il diags Elec Ry J 65:942 Je 13 '25
Copper plating builds up bearings. F. C. Lynch. Elec Ry J 66:369-70 S 5 '25
Die-cast axle bearings used successfully. W. L. Briar. il plan Elec Ry J 66:229-31 Ag 15 '25
Hot bearings versus roasted armatures. Elec Ry J 66:62-3 Jl 11 '25
Improving railway motor bearings. il diags Elec Ry J 64:1031-5 D 20 '24
Maintenance of armature bearing and housing fits. E. F. Whitney. il Elec Ry J 65: 451-3 Mr 21 '25
Maintenance of bearings and welding practice. O. A. Norene. Elec Ry J 62:865 N 17 '23
Obtaining longer life from motor bearings. H. N. Ransom. il Elec Ry J 64:811-12 N 8 '24
Packing railway motor bearings for oil lubrication. C. Bethel. il diags Elec Ry J 63:605-9 Ap 19 '24; Same. Elec J 21:115-18 Mr '24
Renewal bearings of graded diameters for railway motors. J. F. Curtis. Elec J 22:499-500 O '25
Self-centering chuck facilitates bearing machining. W. L. Briar. il Elec Ry J 64:1084-5 D 27 '24
Steel sleeves on split frame bearings. F. C. Lynch. Elec Ry J 66:246-7 Ag 15 '25
Use of undersize and oversize armature and axle bearings. P. A. Pontius. Elec Ry J 65:618 Ap 18 '25

Control

Control equipment for motor and trail cars on the Java State Rys., Dutch East Indies. F. Guillot. il diags Gen Elec R 28:95-102 F '25
Roof mounting of motor resistors. H. T. Hurlock. il diag Elec Ry J 64:814 N 8 '24
Standardizing railway car type resistors. J: S. Dean. il Aera 14:791-2 N '25; Same. Elec J 22:565+ N '25
Traction motor control (direct current). A. T: Dover. 114p Pitman '23

Cooling

Forced ventilation for old motors. il Elec Ry J 64:95 Jl 19 '24
Self-ventilated motors in central Europe. E. Nier. Elec Ry J 64:854 N 15 '24

Gearing

Effect of rotation on stress distribution in electric railway motor pinions. A. L. Kimball, jr. diags Gen Elec R 27:130-1 F '24
Lubricating motor gears. il Elec Ry J 65:613-14 Ap 18 '25
Mathematical theory of dynamic stresses in rotating gear pinions. P. Heymans. diags Mech Eng 46:583-7 O '24; Discussion. 46: 587-9; 47:138-40 O '24, F '25
Stress distribution in rotating gear pinions as determined by the photoelastic method. P. Heymans and A. L. Kimball, jr. il diags plan Engineering 117:254-5 F 22 '24; Same. Mech Eng 46:129-30; Discussion. 130-2+ Mr '24
Taking off railway motor pinions. il Elec J 21: 126-7 Mr '24

Lubrication

Importance of efficient lubrication of railway motors. C. Bethel. il diags Elec J 21:467-72 O '24
Lubricating practice for electric cars. il Elec Ry J 63:763-6 My 17 '24
Lubrication of railway motors. C. Bethel. il Aera 13:839-47 D '24

Manufacture

Dissimilar motor shells rebored to same size. il Elec Ry J 66:292-3 Ag 22 '25
Machining and assembling street-railway motors. il Am Mach 62:890-1 Je 4 '25
Machining split-frame motors at bearing and housing seats. J: S. Dean. il Elec J 21: 300+ Je '24

Repair

All motor repairs made at shop. R. S. Neal. Elec Ry J 65:457 Mr 21 '25
Certain essentials in dipping and baking railway motor armatures. H: S. Day. il Aera 13:42-7 Ag '24
Dipping and baking motor frames reduces field failures. il Elec Ry J 65:342 F 28 '25
Economies in railway maintenance. J: S. Dean. Elec J 21:476-8 O '24
Improving railway motor bearings. il diags Elec Ry J 64:1031-5 D 20 '24
Maintenance of armature bearing and housing fits. E. F. Whitney. il Elec Ry J 65:451-3 Mr 21 '25
Overhauling electric equipment on 40,000 mile basis. F. T. Dawkins. Elec Ry J 66:326 Ag 29 '25
Pull-ins reduced 80 per cent by installing armature dipping and baking facilities and by changing the kind of waste used. il Elec Ry J 65:91-2 Ja 17 '25
Reboring 101-B motor frames for oversize housings. E. F. Whitney. il Elec Ry J 65: 761-3 My 16 '25
Reconditioning motors to increase bearing mileage. il Elec Ry J 65:473-4 Mr 21 '25
Reducing motor failures at Syracuse by better maintenance; program for dipping and baking motor armatures and fields. L. E. Worlock. il Elec Ry J 65:757-9 My 16 '25
Rehabilitating motors at Spokane. il Elec Ry J 62:1095 D 29 '23
Removing motors without lifting car bodies. il Elec Ry J 65:380 Mr 7 '25
Suspended pit hoist for handling motors. il Elec Ry J 65:771 My 16 '25

Testing

Load test on repaired railway motors. J: S. Dean. il diag Elec J 21:346+ Jl '24
Radio used to discover electrical defects in cars. J: O. Gerson. diag Elec Ry J 66:90 Jl 18 '25
Testing railway motors under the car. J. S. Dean. Elec J 21:445+ S '24

ELECTRIC motors, Synchronous

Analysis of the synchronous motor. A. D. DuBois. diags W Soc E J 28:512-29 N '23
Beitrag zur theorie der synchronmaschine mit ausgeprägten polen. A. Mandl. diags Elektrotech Zeit 46:484-9, 527-31 Ap 2-9 '25
Benefit of synchronous motors. L. J. Moore. Elec W 84:733-4 O 4 '24
Bonusing use of synchronous motors. H. B. Dwight. Elec W 83:285-6 F 9 '24
Commercializing the small synchronous motor for direct connection to compressors. T. Schou. il diags Refrig Eng 12:47-52; Discussion. 52 Ag '25
Complete synchronous motor excitation characteristics. J: F. H. Douglas, E. D. Engeset and R. H. Jones. diags Am Inst E E J 44: 11-15 Ja '25; Discussion. 44:542-6 My '25
Details of alternating-current motors. il Power Pl Eng 29:68-70 Ja 1 '25
Electricity in mines; abstracts. E. I. David. diags Elec R (Lond) 96:355 F 27 '25; Engineer 139:248 F 27 '25
Emergency method of operating synchronous motor having shorted field coil. M. G. Rees. diag Ind Eng 83:349 Jl '25
Evolution of the synchronous machine from the early days to the present; abstracts. T. Schou. il Power 62:624-5 O 20 '25; Power Pl Eng 29:1008-10 O 1 '25
Excitation of synchronous machines; use of distributed exciting windings and uniformly-slotted exciting members. R. G. Jakeman. Elec R (Lond) 94:167-8 F 1 '24
Field current adjustment of synchronous motors. Q. Graham. Power 61:209-11 F 10 '25

ELECTRIC motors, Synchronous—*Continued*
Flywheel problem in compressors direct connected to synchronous motors. A. R. Stevenson, jr. il Refrig Eng 11:123-40 O '24; Same (without appendix). Gen Elec R 28:580-5, 731-8 Ag, O '25; Discussion. Refrig Eng 11: 140-2 O '24
Flywheel requirements for unbalanced air and ammonia compressors. C. W. Cutler. il Refrig Eng 12:75-84; Discussion. 84-7 S '25
Flywheel type synchronous machine. T. Schou. il Refrig Eng 11:351-4 Ap '25
General Electric develops new synchronous motor. il Power Pl Eng 29:564 My 15 '25
Machine cuts power costs and saves copper. il Coal Age 26:829-30 D 11 '24
New synchronous motor for compressor drives. il diag Power 61:845 My 26 '25
New type of synchronous motor for driving reciprocating compressors. G. M. Chute. il diags Power 61:864-5 Je 2 '25; Same. Refrig Eng 11:433-4 Je '25
Novel motor drive in brass mill. G. L. Lacher. il Iron Age 116:733-7 S 17 '25
Operation of synchronous motors for power factor correction. S. H. Mortensen. il Power 62:204-6 Ag 11 '25
Oscillations and resonance in systems of parallel connected synchronous machines. H. V. Putman. il J Fr Inst 197:603-21, 787-820 My-Je '24
Oscillations and resonance in systems of parallel connected synchronous machines. H: V. Putman. 52p Lippincott '24
Phasing out synchronous motors. J. A. Caparo. diags Power Pl Eng 28:1101-2 N 1 '24
Power-factor correction with synchronous motors. N. J. Reed. Elec W 86:467-8 S 5 '25
Practical ways to correct power factor. H. B. Dwight. Elec W 84:1199-1200 D 6 '24
Principles of synchronous motor action. C: G. Green. diags Power Pl Eng 29:849-52 Ag 15 '25
Pulsations in power due to synchronous motor driven compressors. Q. Graham. il Elec J 21: 70-1 F '24; Same. Power Pl Eng 28:342-4 Mr 15 '24
Report of committee on synchronous motor design for compressors. Refrig Eng 10:215-16; Discussion. 216-18 D '23
Some synchronous-motor applications. chart Elec W 83:1334 Je 28 '24
Ein strombild der synchronmaschine für konstante erregung. M. Skalicky. Elektrotech Zeit 45:434 My 1 '24
Super synchronous motor. il Am Inst E E J 43: 193 Mr '24
Der synchronisierungsvorgang bei unter last anlaufenden synchronmotoren; abstract. A. Fraenkel. Elektrotech Zeit 45:468 My 8 '24
Synchronous motor drive for rubber mills; with special reference to dynamic braking control for safety stopping. C. W. Drake. il diags Am Inst E E J 44:350-3 Ap '25; Same. India Rubber W 72:530-3 Je '25; Discussion. Am Inst E E J 44:1122-6 O '25
Synchronous motor drives in ice and refrigerating plants. T. Hibbard. Refrig Eng 11: 392-8 My '25; Abstracts. Elec R (Lond) 95: 269 Ag 15 '24; Refrig W 59:27-8 Ag '24
Synchronous motor in steel-mill service. D. W. Dean. il diags Elec J 21:428-33 S '24
Synchronous motors for cement mill drive. G. E. Cassidy. il plans Concrete 25:supl-7 Jl '24
Synchronous motors for dual-driven circulating pumps. J: W. Anderson. il Elec W 86: 954-5 N 7 '25
Synchronous motors—their widening use. G. B. Rosenblatt. il Eng & Min J 117:316-18 F 23 '24
Synchronous motors used for voltage and power-factor regulations. S. H. Mortensen. il Power 62:47-9 Jl 14 '25
Synchronous versus induction motors. Power 62:58 Jl 14 '25
Two-speed salient-pole synchronous motor. R. W. Wieseman. il diags Am Inst E E J 44: 339-46 Ap '25; Same. Gen Elec R 28:319-27 My '25; Same cond. Power 61:610-12 Ap 21 '25; Discussion. Am Inst E E J 44:774-7 Jl '25
Types of motors for different uses. Power Pl Eng 29:65-7 Ja 1 '25
Wound-rotor induction motors and synchronous motors for rolling mill service. G. E. Stoltz. il diags Elec J 22:421-7 S '25
Zur theorie der synchronen mehrphasen-maschinen. K. Vossius. Elektrotech Zeit 46: 769-70 My 21 '25

See also Electric motors, Induction-synchronous

Control

Control of synchronous motors. H. D. James and J. H. Graybill. il diags Elec J 21:335-9 Jl '24

Repair

Locating faults in synchronous motors. B. A. Briggs. il Power 60:644-6 O 21 '24
Locating faults in synchronous motors. A. A. Fredericks. il diag Power 60:451-3 S 16 '24

Specifications

Specifications covering the design of synchronous motors for direct connection to ammonia compressors. Refrig Eng 10:444-5 Je '24; revised. Refrig Eng 11:272-3 Ja '25

Starting

Novel method of starting polyphase synchronous motors. E. V. Clark. Inst E E J 62: 878-81 O '24
Starting synchronous motor when line voltage is low. A. A. Fredericks. diags Power 60:907 D 2 '24

Starting devices

Automatic starters for synchronous motors; frequency-relay type. il diags Power 58: 605-8 O 16 '23; Discussion. W. A. Peters. 59:27 Ja 1 '24
Automatic starting of synchronous motors. diags Power 60:282-3 Ag 19 '24
Automatic starting of synchronous motors. R. M. Matson and R. E. R. Parry. il diag Gen Elec R 28:703-6 O '25

Windings

Improved damper windings for high-speed synchronous machines. R. M. Casper. il Elec J 22:196-7 Ap '25

ELECTRIC outlets. See Electric fittings

ELECTRIC ovens
Beitrag zur untersuchung von elektrischen wärmeapparaten. A. v. Timascheff. Elektrotech Zeit 45:232-3 Mr 20 '24
Determination of moisture in various fibers. F. D. Wadsworth. il Textile Col 46:303-6 My '24
Electric drying oven on navy repair ship Medusa. il Marine R 55:195 My '25; Same. Marine Eng 30:210-11 Ap '25
Electrical oven bakes armatures after they are coated with insulation. il Coal Age 27: 407-8 Mr 12 '25
Fireproof vault converted to electric oven. C. H. Stevenson. il Elec W 85:567 Mr 14 '25; Same cond. Management & Adm 9:380-1 Ap '25
Four ways to save time and money in the paint shop. F. J. Plym. il Factory 35:112+ Jl '25
How electric heat has been put to work in low temperature enameling. W. B. Scott. il Automotive Ind 51:892-6 N 20 '24
Industrial electric heat. C. P. Yoder. Elec W 86:503-6 S 12 '25
New dipping tank and baking oven installed by N.Y., W. & B. Ry. il Elec Ry J 64:352 S 6 '24

ELECTRIC patents
Electrical patents. Published in weekly numbers of Electrical world

ELECTRIC plants
Changing from a direct-current to an alternating-current system. F. Huskinson. il Power 61:453-4 Mr 24 '25
Denver tramway modernizing the power plant. il diags Elec Ry J 64:757-60 N 1 '24

ELECTRIC plants—*Continued*
Electrical equipment of the Consolidated mining and smelting company's zinc plant, Trail, B.C., Canada. R. M. Lockyer. il diags plans Am Inst E E J 43:531-44 Je '24
General Electric co. completes new station to supply steam and by-product power. il Power Pl Eng 28:1228-9 D 1 '24
Installing non-condensing turbine lowers factory power costs. F. A. Westbrook. il Power 61:896-8 Je 9 '25
Lack of switchboard instruments causes overloading of engines and poor service. J. H. Bender. diag Power 60:951-2 D 9 '24
Lumber company puts floating power plant in service. il J Elec 52:335 My 1 '24
Modern practice in power plant wiring. E. G. Sohlberg. diags Power Pl Eng 29:338-43, 492 Mr 15, My 1 '25
Power station of the British Empire exhibition. il diags Engineering 117:330-5, 362-4, 387-91, 424-8, 455-8, 490-1, pl 28 Mr 14-Ap 18 '24; Elec R (Lond) 94:703-6, 883-5 My 2, 30 '24; Electrician 92:386-8 Mr 28 '24; Engineer 137:250, 251-3 Mr 7 '24; Power Pl Eng 28:606-10, 645-8 Je 1-15 '24
Private plant service in large hotels, office buildings, and certain industries. Power Pl Eng 28:1156-8 N 15 '24
Scottish colliery power station. il Elec R (Lond) 97:379-82 S 4 '25
Small plants need engineers' attention. W. J. Rheinfrank. Power Pl Eng 28:434 Ap 15 '24
Southampton docks electric supply; abstracts. H. Wauchope. Engineer 140:270 S 11 '25; Elec R (Lond) 97:471-3 S 18 '25
Ventilating the new Liberty tunnel in Pittsburgh; electric equipment of power house. A. McGonagle. il diag plans Elec J 22:102-8 Mr '25

See also Boiler plants; Electric plants (central stations); Electric power; Electric substations; Farm lighting plants; Hydroelectric plants; Power factor; Power plants; Steam plants; Superpower surveys

Automatic equipment

Automatic station equipment for industrial and power systems. C. Lichtenberg. il Gen Elec R 27:394-403 Je '24

See also Hydroelectric plants—Automatic operation

Costs

Factors affecting the working costs of small electric generating sets. E. G. Kennard. Inst E E J 62:713-19 Ag '24

See also Electric distribution—Costs; Electric service, Rural—Cost; Power cost

Equipment

American institute of electrical engineers' technical committee annual reports 1923-1924. Am Inst E E J 43:839-57 S '24
Breakdowns and failures of electrical plant and equipment. il Elec R (Lond) 97:312-14 Ag 21 '25
Electrical power-equipment development. il Power 61:20-2 Ja 6 '25

Interconnection

Analysis of interconnection tie line. Elec W 82:1117-18 D 1 '23
Atlantic coast superpower. Elec W 83:443 Mr 1 '24
Chicago superpower system. Elec W 83:543 Mr 15 '24
Coal-field superpower group formed. map Elec W 83:588, 831 Mr 22, Ap 26 '24
Coal field systems to be interconnected. map Power Pl Eng 28:512 My 1 '24
Crawford Avenue station. W. L. Abbott. diags plans Elec W 86:113-19 Jl 18 '25
Devon station marks forward step in development of New England superpower. il diags map plan Elec W 83:562-70 Mr 22 '24
Economics of interconnection. M. L. Sindeband. Elec W 85:25-6 Ja 3 '25
Economics of interconnection of large steam power systems. E. Douglas. Power 61:52-3 Ja 13 '25; Discussion. W. J. Risley, jr. 61:229 F 10 '25
Exploding some myths on superpower and giant power. A. Dow. N E L A Bul 12:164-7 Mr '25
Fact and myth in superpower. N E L A Bul 11:572-5 S '24
Features of an interconnection contract. Elec W 82:1263-5 D 22 '23
Giant power—its possibilities—potentialities and its administration. S: Gompers. N E L A Bul 11:71-4 F '24
Giant survey of Pennsylvania outlined. Elec W 83:153 Ja 19 '24
Gifford Pinchot and giant power. E. J. Crosby. J Elec 55:78-9 Ag 1 '25
How Tripp learned to think through to a finish. O. D. Foster. Forbes 14:219-21+ My 24 '24
Hydro-electric development in the South. T: W. Martin. il maps Manuf Rec 86:241-62 pt 2 D 11 '24
Hydroelectric practises and equipment of the South. O. G. Thurlow and J. A. Sirnit. diags map Am Inst E E J 43:719-23 Ag '24; Discussion. 44:53-5 Ja '25
Hylan fights power mergers. Elec W 86:83-5 Jl 11 '25
Improving flexibility and cost of power. il Iron Age 113:1141-3 Ap 17 '24
Insull system expands in Lake territory. map Elec W 86:429 Ag 29 '25
Interchange of power between steel mills and central stations. S. S. Wales. Elec J 22:411 S '25
Interconnected power systems of the Southeast. C: G. Adsit. maps Am Soc C E Pro 50:1286-1302 O '24; Discussion. 50:1527-32; 51:302-5 N '24, F '25
Interconnected transmission system of California. W. G. Vincent, jr. il diags maps J Elec 54:563-75 Je 15 '25
Interconnection and service to the farm. G. Pinchot. Elec W 83:1095-6 My 24 '24; Same cond. N E L A Bul 11:424-5 Jl '24
Interconnection in New York state. map (supp) Elec W 82:1013-16 N 17 '23; Abstract. Power 58:1045 D 25 '23
Interconnection in 1923. map (supp) Elec W 83:41 Ja 5 '24
Interconnection of electric power systems. F. H. Patten. Munic & Co Eng 68:190-5 Ap '25
Interconnection of electrical systems. diag map Power Pl Eng 28:949-52 S 15 '24
Interconnection of industrial and public utility plants. il Power 62:448-9 S 22 '25
Interconnection of power systems. H. W. Buck. Mech Eng 46:12, 39 Ja '24
Interconnection of power systems in the Southeastern states. W. E. Mitchell. Am Inst E E J 43:1150-3 D '24; Abstract. Power 60:780-1 N 11 '24; Discussion. Am Inst E E J 44:397 Ap '25
Interconnection proposed for New England. map Power Pl Eng 28:653-5 Je 15 '24
Interconnection, super-power and electrification. S. Q. Hayes. il maps Elec J 21:72-7, 118-26, 166-76, 247-54 F-My '24
Inter-Scandinavian superpower project. diags map Elec W 82:963-4 N 10 '23
Japanese frequency dilemma. M. Fukuda. map Elec W 83:380-2 F 23 '24; Discussion. H. B. Dwight. 83:1284 Je 21 '24
Limitations of superpower. G. C. Neff. Power 62:625-6 O 20 '25
Manufacturer has his own superpower system. diags Power 61:261-2 F 17 '25
Maps prepared by Federal power commission will show power interconnection possibilities. Power 59:269 F 12 '24
New England interconnection. R. J. Andrus. il diags Elec W 83:127-30 Ja 19 '24
New England's power needs. maps Elec W 83: 877-81 My 3 '24
New type of high-tension network; an interconnecting system for the supply of electric power over large areas. P. H. Thomas. map Am Inst E E J 43:610-18 Jl '24; Discussion. 44:58-65 Ja '25

ELECTRIC plants—Interconnection—*Continued*
New York mergers approved. Elec W 86:183 Jl 25 '25
Ninety-five systems of more than 50,000 kva. generator rating. Elec W 86:262-3 Ag 8 '25
Northeast superpower studies completed; abstracts. maps Eng N 93:186-8 Jl 31 '24; Power 60:179-82 Jl 29 '24; Eng & Contr (W W) 62:355-6 Ag 13 '24
Operating a fully interconnected system. A. M. Perry. map Elec W 86:657-62, 693-6 S 26-O 3 '25; Discussion. G. A. Iler. 86:853 O 24 '25
Pacific gas and electric company power interchange; report of Pacific coast electrical association. J Elec 54:469-70 Je 1 '25
Parallel operation of central station and industrial plant proved economical. J. A. Madsen. Power 62:576 O 13 '25
Pennsylvania's giant power survey. Elec W 84:1373-4 D 27 '24; Same. Power 61:42 Ja 6 '25
Physical aspects of the Pacific coast interconnected system. map J Elec 52:100-1 F 1 '24
Pinchot lauds giant power. Elec W 86:183-4 Jl 25 '25
Popular benefits of interconnection; an interview with Samuel Ferguson. Elec W 86: 619-20 S 26 '25
Power interchange in San Joaquin valley in 1924; report of Pacific coast electrical association. J Elec 54:466-9 Je 1 '25
Problem of interconnection and parallel operation of large power systems discussed at Paris. Elec W 86:451-2 S 5 '25
Problems in the development of a superpower system. C. O. Ruggles. Harvard Business R 2:160-73 Ja '24
Recommendations for the stringent governmental control of the production of electricity through the Public service commission of Pennsylvania along radical lines; abstracts. G. Pinchot. Elec W 85:421-2 F 21 '25; Power 61:317 F 24 '25
Rehabilitation of two Indiana plants increases efficiency. il diags map Power Pl Eng 28:834-42 Ag 15 '24
Reports on mine mouth plants; fuel alone must be depended upon for ultimate expansion in Northeast section. Power 59:584 Ap 8 '24
Significance and status of super power development in the United States. E. B. Whitman. map Manuf Rec 85:79-81 Mr 27 '24
Sober sense about super-power. J. H. Collins. il map Nation's Business 12:21-3 Mr '24
Somerset another step toward super-power. il diags plans Power Pl Eng 29:368-76 Ap 1 '25
Southeastern power system and its tremendous industrial value to the states it serves. J. H. Pratt. Manuf Rec 86:83-4 Jl 24 '24
Superpower. L. T. Beman, comp. Ref Shelf 2:1-89 [bibliog. p. 5-14] no 9 '24
Super power. S. Q. Hayes. Ind Management 67:136-8 Mr '24
Superpower. W. S. Murray. Electrician 93:525 N 7 '24
Superpower and its public relations. H. W. Hoover. Munic & Co Eng 67:25-9 Jl '24
Super-power and its relation to progress and prosperity. L. B. Andrus. map Munic & Co Eng 67:126-34 S '24
Superpower and the railways. E. H. Sniffin. Elec Ry J 65:112-13 Ja 17 '25
Super-power covering 50,000 miles and 7,250,000 population; nine independent electric companies co-operate. il maps Pub Serv Management 36:139-41 My '24
Superpower in Indiana. J: Ferguson. Munic & Co Eng 67:84-5 Ag '24
Superpower in its relation to industry and the railroads. W. S. Murray. N E L A Bul 11: 3-7 Ja '24
Super-power in Japan. M. Fukuda. map Gen Elec R 28:542-9 Ag '25
Superpower in the northeast section of the United States; review of report of Hoover's committee. N E L A Bul 11:543-4 S '24
Super power—its general aspects. H. Hoover. N E L A Bul 11:342-6 Je '24; Same cond. Elec W 83:1078-80 My 24 '24
Superpower network proposed for Southeast. E. Wortham. map Elec W 84:414-15 Ag 30 '24
Superpower on the Pacific coast. G: C. Tenney. il maps J Elec 52:82-91 F 1 '24
Super power—some financial considerations. S: Insull. N E L A Bul 11:368-71 Je '24
Super power—some political aspects. G. E. Tripp. N E L A Bul 11:363-7 Je '24
Super power studies for the Northeast section of United States by Northeastern super power committee. folding maps 12p, pl 1-17 Federal power commission. Washington '24
Superpower vs. coal conservation. R. Douglas. Power 59:448-9 Mr 18 '24
Tendency toward centralization of power development. W. L. Abbott. maps Munic & Co Eng 66:165-71 Ap '24
Unitary operation of utilities with interconnection. P. H. Thomas. Am Inst E E J 44:1157-8 O '25
Use of frequency changers for interconnection of power systems. H. R. Woodrow. Am Inst E E J 44:354-6 Ap '25; Discussion. 44:878-9 Ag '25
Views on interconnection. O. C. Merrill. Power 61:513 Mr 31 '25
Wabash River power station at Dresser, Ind. Munic & Co Eng 67:173-5 O '24
West of Scotland interconnection scheme; the inauguration of the Greenock-Paisley section. il diags Elec R (Lond) 96:61-3 Ja 9 '25
What does the super power plan mean to you? G. E. Tripp. Ind Management 66: 344-6 D '23
What strides is power making? Factory 34: 45-6 Ja '25

Isolated plants vs. central stations

Central station power in competition with fuel engines; report of committee of Pacific coast electrical association. J Elec 52:431-2 Je 1 '24
Central-station power versus the private plant. H. C. Thuerk. Elec W 83:1140-1 My 31 '24
Central station service vs. isolated plant. Power Pl Eng 28:203, 306-7, 353, 406 F 1, Mr 1-Ap 1 '24
Central station vs. industrial power plants. W. J. Risley, jr. Power Pl Eng 28:896-7 S 1 '24
Economic consideration of power service. J. D. Morgan. Power Pl Eng 29:200-2 F 1 '25
Generated vs. purchased power in various industries; report of Pacific coast electrical association. J Elec 54:412-15 Je 1 '25
Process steam, with power as a by-product. R. E. S. Geare. Ind Management 66:366-7 D '23
Purchased power shows marked saving over private plant. R. H. Larson. Elec W 86:75-6 Jl 11 '25
Purchased power vs. private plant. E. F. Wilson. Elec W 86:755-7 O 10 '25
Should all industrial plants buy power? A. F. Sheehan. Power Pl Eng 29:659 Je 15 '25
Trend in purchased power. F. K. Simmons. System 44:818+ D '23
Use of purchased power in hotels. W. H. Whitton. il Elec W 84:267-70 Ag 9 '24

Location

Effect of altitude on power-equipment performance. Power 62:139-40 Jl 28 '25

Rates

See Electric rates

ELECTRIC plants (central stations)
Bau grosser elektrizitätswerke. G. Klingenberg. 2d ed., rev. and enl. 608p J. Springer, Berlin '24
Electricity supply business and its future. R. B. Mitchell. Inst E E J 62:40-6 D '23; Excerpt. N E L A Bul 11:163 Mr '24
Electricity supply in wartime; underground stations. A. H. Dykes and W. T. Townend. diag plan Engineer 137:538 My 16 '24
Das französische kolonialfunknetz; abstract. A. Kanberg. map Elektrotech Zeit 45:246-7 Mr 20 '24

ELECTRIC plants (central stations)—*Continued*
Generating power at lowest cost. P. C. Eppelsheimer. il plan Management & Adm 9: 11-14 Ja '25
Invention and the power future. A. A. Hamerschlag. Ann Am Acad 118:137-40 Mr '25
Machine shop integral with turbine room. J. A. Colvin. Elec W 84:318 Ag 16 '24
Notes on a change-over from d.c. to a.c. Elec R (Lond) 96:7-8 Ja 2 '25
Operating of transmission systems. J. L. Hecht. map Power Pl Eng 29:435-7 Ap 15 '25
Past, present and future. I. E. Moultrop. Elec J 21:197-8 My '24
Problems in the development of a superpower system. C. O. Ruggles. Harvard Business R 2:160-73 Ja '24
130,000 kilowatt power station. G. Klingenberg. 154p Van Nostrand '22
Die zukünftige gestaltung der elektrizitätswerke. E. Wikander. Elektrotech Zeit 46: 1537-40 O 8 '25

See also Boiler plants; Electric distribution; Electric engineering; Electric lighting; Electric lines; Electric plants—Interconnection; Electric railroads—Power; Electric service, Rural; Electric transmission; Electric utilties; Electric vehicles and the central station; Hydroelectric plants; Steam plants

Construction

All records broken in construction of Sacramento steam plant. C. Grunsky. il J Elec 53:55-7 Jl 15 '24
Bedeutung des eisenbetons für die bauten der elektrizitätswerke. il Elektrotech Zeit 46: 699-700 My 7 '25
Construction and mechanical features of the Hudson Avenue station of the Brooklyn Edison company. J. N. Landis. il diags Elec J 22:155-66 Ap '25
Construction methods on a 720,000-h.p. generating station; 74th street plant of the New York Edison company. F. W. Skinner. il diags Engineering 120:435-7, 501-4, 563-6 O 9, 23, N 6 '25
Construction procedure for a steam power station. il diag plan Eng N 92:754-7 My 1 '24
Handling materials for substructure of $25,000,000 power house. F. W. Skinner. il diags Concrete 26:118-23 Ap '25
Kraftwerkshochbau. Dohme. il diags Elektrotech Zeit (special no.) 45:24-8 Ag 28 '24
Massive wet soil foundations for a great steam-electric power house. F. W. Skinner. il Munic & Co Eng 69:77-80 Ag '25
Substructure of New York Edison co.'s power house. F. W. Skinner. il Eng & Contr (G C) 63:794-801 Ap 17 '25

Control

Control of wattless current in power systems. S. Q. Hayes. il Power Pl Eng 29:141-5 Ja 15 '25
Signal systems and remote control. diags Power Pl Eng 29:91-3 Ja 1 '25

See also Electric plants (central stations)—Load dispatching

Costs

Analyzing utility construction costs. P. O'Moore. Elec W 86:168-70 Jl 25 '25
Case for low-temperature carbonization in America today. H. W. Brooks. Power 62:680-4 N 3 '25; Same abr. Power Pl Eng 29: 1139-43 N 15 '25
Cost estimate of Montaup plant initial development. diag Elec W 83:475-6 Mr 8 '24
Cost of high-tension energy at Boston. Elec W 85:980 My 9 '25
Cost of serving the electric range load. Elec W 85:871-3 Ap 25 '25
Cost of switchboard for 25,000-kw. turbines. Elec W 83:485 Mr 8 '24
Diesel engine in medium-powered central stations. R. C. Burrus. il Power 60:54-5 Jl 8 '24
Diesel engine operating experience. J. A. Boggs. il plan Elec W 84:995-8 N 8 '24
Diesel engines eliminate losses in Carthage light plant. il Power 60:684-6 O 28 '24
Division of costs in Saxton plant. Elec W 83: 1338 Je 28 '24
Economic status of the Diesel engine. L. H. Morrison. diags Engineering 117:91-4, 121-3 Ja 18-25 '24
Electric energy from large power plants. H. E. M. Kensit. Can Eng 48:396-8 Ap 14 '25
Electricity supply in war time; effect of improvements in heavy-oil engines. A. H. Dykes and W. T. Townend. Elec R (Lond) 94:858-60 My 23 '24
Engineers' committee reports on northeastern super-power; abstracts, map Eng N 93:186-8 Jl 31 '24; Elec W 84:205-7 Ag 2 '24; Power 59:584 Ap 8 '24
Factors entering into the cost of electrical energy. L. S. Ready. diags maps J Elec 55: 52-7 Jl 15 '25; Discussion. L: F. Leurey. 55:117 Ag 15 '25
Höchstpreise für stromlieferung. W. Windel. Elektrotech Zeit 45:995-1000, 1027-32 S 18-25 '24
Laboratory for the central station. J: D. Morgan. charts Power Pl Eng 28:637-8 Je 15 '24
Operating performance of steam-generating stations. V. E. Alden. Elec W 86:633-48 S 26 '25
Power plant design and operating cost. diag plan Power Pl Eng 28:372-4, 432-3, 480-2 Ap 1-My 1 '24
Power plant unit costs and their engineering significance. L. Helander. Elec J 21:285-90 Je '24
Le prix de revient de l'énergie électrique et les projets de supercentrales, aux Etats-Unis. A. Antoine and A. Libault. map Génie Civil 85:403-5 N 1 '24
Production expenses at Conners Creek. Elec W 83:434-5 Mr 1 '24
Pulverized fuel and efficient steam generation. D: Brownlie. Inst E E J 62:385-418 My '24; Abstracts. Elec R (Lond) 93:956-7 D 21 '23; Electrician 91:690 D 21 '23; Engineer 136:665 D 21 '23; Gas J (Lond) 165: 34 Ja 2 '24; Discussion. Inst E E J 62:418-69; 63:386-7 My '24, Ap '25; Elec R (Lond) 93:957-8 D 21 '23
Revamping municipal electric plant at Hannibal, Mo. il plan Power 59:394-7 Mr 11 '24

See also Electric service, Rural—Cost

Demand

High-speed graphic meter for measuring demands. L. D. Snow. il Elec W 82:1277 D 22 '23

Design

Developments in power station design. E: Austin. 286p Van Nostrand '23
Latest design and practise in power plants; report of A.I.E.E. committee on power generation. Am Inst E E J 54:1178-88 N '25; Power 62:126-8 Jl 28 '25
Progress evident in station electrical design. R. E. Argersinger. il diag Power Pl Eng 28:1204-7 D 1 '24

Employees

Power plant personnel; selection, training, and promotion of steam power station employees. K. W. Stillman. il charts Management & Adm 8:633-6 D '24
Training of power supply engineers; a scheme involving a three-year course of training. F. G. Bromley. Elec R (Lond) 96:952 Je 12 '25

Equipment

American power station electrical equipment. B. G. Lamme. Engineering 118:108-10 Jl 18 '24
Analyzing bids for apparatus; formulas derived as an aid in the computations involved. T: E. Penard. Elec W 86:948-9 N 7 '25
Aurora plant addition built in six months. il plans Power Pl Eng 28:463-70 My 1 '24
Automatic control of auxiliaries. F. M. Billhimer. il diags Elec W 85:551-4 Mr 14 '25

ELECTRIC plants (central stations)—Equipment—*Continued*

Auxiliaries and auxiliary drives for steam-electric generating stations. A. L. Penniman, jr. and F. W. Quarles. Power 62:623 O 20 '25

Cahokia—a masterpiece! F. J. Crolius. il diag Blast F & Steel Pl 12:Material handling sec 7-11 Ap '24

Cahokia; first large station with the pulverized fuel equipped in the same building with the boilers. il diags plan Power Pl Eng 28: 365-71, 397-401 Ap 1 '24

Cahokia power plant; pulverized-fuel, isolated-phase station. il diags plans Elec W 83:610-20, 659-66 Mr 29-Ap 5 '24

Cahokia station, Union electric light & power company, St Louis, Mo. il diags plans Power 59:514-24 Ap 1 '24

Case for low-temperature carbonization in America today. H. W. Brooks. Power 62: 634-8, 680-4 O 27-N 3 '25; Same (without conclusions). Power Pl Eng 29:1087-91, 1139-43 N 1-15 '25

Central-station auxiliaries. G. G. Bell. Elec W 86:655-6 S 26 '25

Central stations eliminating steam engine. Elec W 86:314-15 Ag 15 '25

Construction and mechanical features of the Hudson Avenue station of the Brooklyn Edison company. J. N. Landis. il diags Elec J 22:155-66 Ap '25

Control and pipe room layout of the Delaware station. R. A. Hentz. il Elec W 82: 1173 D 8 '23

Converting a loser into a profit-making plant; replacing an obsolete steam plant with Diesel engines. il plan Power 59:772-5 My 13 '24

Crawford Avenue station of the Commonwealth Edison company. il diags plans Power 61:936-44 Je 16 '25

Developments in electric drive for central station auxiliaries. J. W. Dodge. il diags Gen Elec R 27:404-14 Je '24

Devon station of the Connecticut light & power company. il map plans Power 59:474-80 Mr 25 '24

Diesel engines replace steam at Clinton, Okla. il Power Pl Eng 29:1100-1 N 1 '25

Diesels for operation of small utility. G: E. Silver. Elec W 85:507-8 Mr 7 '25; Discussion. C. E. Murphy. 85:877 Ap 25 '25

Drive of power station auxiliaries. L. Breach and H. Midgley. diags Inst E E J 61:829-45 Ag '23; Abstracts. Elec R (Lond) 92:713-14 My 4 '23; Engineer 135:468 My 4 '23; Discussion. Inst E E J 61:845-62; 62:243-7 Ag '23, Mr '24; Elec R (Lond) 92:714, 808-9 My 4, 25 '23

Electrical circuits and switching equipment of the Hudson Avenue station of the Brooklyn Edison company. E. A. Hester. il diags Elec J 22:166-80 Ap '25

Electrical features of Long Beach station. il diags Power Pl Eng 29:344-7 Mr 15 '25

Electrical features of Pine Grove station. C. D. Gray and M. M. Samuels. il diags plans (supp) Elec W 84:56-62 Jl 12 '24

Electrical features of the new Long Beach steam plant. G. A. Fleming and E. R. Stauffacher. il diags J Elec 54:199-204 Mr 15 '25

Electrical features of the Somerset station. il plans Power Pl Eng 29:750-4 Jl 15 '25

Electricity at Lancaster. il Electrician 92:799 Je 27 '24

Electricity supply at Tunbridge Wells. il Elec R (Lond) 96:604-5 Ap 17 '25; Electrician 94: 458-9 Ap 17 '25; Engineering 119:482, 487-8 Ap 17 '25

Energy supply for station auxiliaries. F. M. Billheimer. diags plans Elec W 83:377-80 F 23 '24

Engineering features of Crawford Ave. station. il diags plans Power Pl Eng 29:676-88 Jl 1 '25

Engineering features of the Philadelphia electric company system. W. C. L. Eglin. il chart diags plans Elec W 83:933-50 My 10 '24

Equipment cost in Muscatine, Iowa, municipal light plant. diag Power 60:725-6 N 4 '24

Features of the Middletown power station. il diags plans Power Pl Eng 29:724-34 Jl 15 '25

14,000-kw. station at Williamsport, quickly designed and built. il plans Power 59:354-60 Mr 4 '24

Grossdieselmotoren als reserve- und spitzenmaschinen von grosskraftwerken. M. Gercke. diags Elektrotech Zeit 46:880-6 Je 11 '25

How Windsor station forestalls generator and lubrication troubles. il Power 58:1030-1 D 25 '23

Hudson Avenue—Brooklyn Edison's superstation. il diags map Power 59:750-8 My 13 '24

Keeping a modern station up to date. J. F. Brown. il diags plan Elec W 86:839-42 O 24 '25

Marion station installs new turbine, boilers and automatic synchronizer. il diags Power Pl Eng 29:416-22 Ap 15 '25

New Byllesby plant near Muskogee. il diags plan Power 60:562-8 O 7 '24

La nouvelle centrale électrique à moteurs Diesel de la Concession française de Shanghaï. il diags Génie Civil 85:599-603 D 27 '24

150,000-kw. plant for the Tri-Cities. diags Power Pl Eng 28:726-8 Jl 1 '24

Operating feature at Delaware. il diag plan Power Pl Eng 28:537-42 My 15 '24

Osborne (Adelaide) power station and transmission system. F. W. H. Wheadon. il diags plan Engineer 140:133-8, 142 Ag 7 '25; Abstract. Elec R (Lond) 95:361-5 S 5 '24

Philo station sets record. M. L. Sindeband and P. Sporn. il diags map plan Elec W 86:355-9, 403-8 Ag 22-29 '25

Pioneer engineering at Weymouth station. E. W. Norris. M. J. Lowenberg and T. E. Penard. il diags plans Elec W 85:808-15 Ap 18 '25

Pointers on the care of electrical equipment. diags Power Pl Eng 28:546-8 My 15 '24

Possibilities of Diesel engines for central-station service. E. B. Pollister. il diags Elec W 82:1111-15 D 1 '23

Power supply for central station auxiliaries. J. W. Dodge. il diags Power Pl Eng 29:432-5, 599-600 Ap 15, Je 1 '25

Progress evident in station electrical design. R. E. Argersinger. il diag Power Pl Eng 28:1204-7 D 1 '24

Push self-starting motors. J. C. Hobart. Elec W 85:554-5 Mr 14 '25

Relation between the total rating of a.c. and d.c. generators installed in central generating plants of the country. Elec W 86:350 Ag 15 '25

Saxton plant of the Penn central light & power company. A. Iddles. il diags map plan Power 59:592-9 Ap 15 '24

Selection of central-station auxiliaries. Elec W 85:408-9 F 21 '25

La station centrale de 500000 chevaux des usines Ford, à River Rouge (E.-U.). il diags Génie Civil 86:305-8 Mr 28 '25

Steel Point station at Bridgeport. W. F Thompson. il diag plan Power 59:238-44 F 12 '24

Still larger power plant; steam-electric generating station of the Brooklyn Edison company. il Sci Am 131:17 Jl '24

Trenton Channel plant of the Detroit-Edison co. C. H. Berry. il diags plan Power 59:848-57 My 27 '24

Trenton Channel plant of the Detroit Edison company. C. F. Hirshfeld. diags maps Am Inst E E J 44:708-18 Jl '25; Discussion. 44: 886-95 Ag '25

Unusual electrical features found in Trenton Channel station. il diags Elec W 85:238, 247-52 Ja 31 '25

Unusual features in the design of the Hudson Avenue station. il diags Elec W 83:867-76 My 3 '24

Use of electrically driven auxiliaries increases. il diag Power Pl Eng 29:328-32 Mr 15 '25

ELECTRIC plants (central stations)—Equipment—*Continued*

Will the substitution of the internal combustion engine for the usual non-condensing or bleeder type turbine for house generator service in central stations be practical and economical? Power Pl Eng 27:1242-3 D 15 '23

See also Short circuits—Calculating board

Heating and ventilation

Cooling system for central-station offices. J. S. Moulton. il Elec W 85:155-6 Ja 17 '25

Heating and ventilating a super-power plant; Weymouth power station. S: Sayward. il plans Dom Eng 113:22-4 N 7 '25

Heating and ventilating requirements of a power station; new Hudson Avenue generating station; of the Brooklyn Edison company. C: S. Peace. diags plan Heat & Ven 22:54-60 My '25

Heating and ventilation of a modern steam power station. D. S. Boyden and A. B. Williams. diags plans Am Soc Heat & V E J 31:231-44; Discussion. 244-6 Ap '25

Heating and ventilation systems employed in several large stations; tabulation. Power 62:370 S 8 '25

Power-house heating and ventilating; N.E. L.A. report. Power 62:176 Ag 4 '25; Power Pl Eng 29:1093-5 N 1 '25

Ventilation of buildings containing electrical machinery. diags Power 58:1043-4 D 25 '23

History

Forty years of central-station development. W: C. L. Eglin. il Elec W 84:609-11 S 20 '24

Laboratories

See Electric laboratories

Load

Analysis of domestic metered water heating in California; report of Pacific coast electrical association. J Elec 54:397-8 Je 1 '25

Ausgleich der belastungsschwankungen in einem netz mit stromlieferung für holzschleifer; abstract. S. Velander. Elektrotech Zeit 45:560 My 29 '24

Benefits of industrial electric heating. N. R. Stansel. Elec W 85:1389-90 Je 27 '25

Brass furnaces offer $15,000,000 load. Elec W 84:1008 N 8 '24

Building an electric range load. H. J. Gille. Elec W 86:471-2 S 5 '25

Cafeteria has 125-kw. cooking load. il Elec W 86:177-9 Jl 25 '25

Central-station commercial progress. T. P. Kindig. il Elec W 85:47-52 Ja 3 '25

Central-station load analyzed. Elec W 85:30-6 Ja 3 '25

Changed significance of load factor. C: M. Rau. Ann Am Acad 118:133-6 Mr '25

Chicago's largest commercial cooking load. Elec W 86:858 O 24 '25

Computing load factors graphically. J. H. Phillips. Elec W 83:888 My 3 '24

Construction of composite load curves. S. S. Bailey. Elec W 82:1121-2 D 1 '23

Cost of serving the electric range load. Elec W 85:871-3 Ap 25 '25

Demand factor in heating and cooking loads. E. J. Crawford. J Elec 54:329 My 1 '25

Desirability of electric range load. C. O. Dunten. Elec W 85:259-61 Ja 31 '25

Dividing load economically among turbine-driven alternators. J. D. McAdoo. Power 60:569-71 O 7 '24

Domestic electrical load. A. Lindsay. Elec R (Lond) 96:115 Ja 16 '25

Domestic refrigeration as a load builder. chart Elec W 86:807 O 17 '25

Eclipse and the peak load. map Elec W 85: 266-7 Ja 31 '25

Eclipse in relation to electric lighting. il N E L A Bul 12:185 Mr '25

Effect of ranges on load curve. Elec W 86: 523 S 12 '25

Electric cooking and heating; report of N.E.L.A. committee. Elec W 85:1323-4 Je 20 '25

Electric generating plant loads. V. L. Hollister. Elec W 86:320-2 Ag 15 '25

Electric power in Pittsburgh district. W. F. Rittman and S. B. Ely. il map Elec W 83: 1271-6 Je 21 '24

Engineering and economic features of distribution systems supplying increasing load densities. L. M. Applegate and W. Brenton. bibliog diags Am Inst E E J 44:937-42 S '25

Fields for power sales development. E. W. Lloyd. il diag Elec W 84:518-20 S 13 '24

How fast is the small customer's use of energy increasing? investigation in New York. W: M. Carpenter. Elec W 83:1232-4 Je 14 '24

Increasing revenue per dollar invested. J: F. Gilchrist. Elec W 86:61-2 Jl 11 '25

Is the electric air-heating load desirable? G: W. Barker. J Elec 54:361-3 My 15 '25

Keeping dollars at work. Elec W 85:658-60 Mr 28 '25

Load building possibilities of industrial heating. C. L. Ipsen. il Am Inst E E J 44: 458-62 My '25; Abstracts. Iron Tr R 76:1008-10 Ap 16 '25; Iron Age 116:74-6 Jl 9 '25

Load transference. Elec W 84:1002, 1157-8 N 8, 29 '24

Lumber industry—a potential utility load. E. F. Whitney. il J Elec 54:586-9 Je 15 '25

Making a survey of the power load. H. E. Stafford. il diags Ind Eng 83:310-15+ Jl '25

Manufactured ice—an opportunity. A. J. Authenreith. il Elec W 86:797-800 O 17 '25; Discussion. H. D. Panton. 86:950-1 N 7 '25

Observations of the total solar eclipse made by the electric companies in and around New York city, January 24, 1925. diags map Gen Elec R 28:151-7 Mr '25

Overloads and short-time ratings. R. O. Kapp. Elec R (Lond) 93:644-6 N 2 '23

Predicting central station demand and output. F. C. Ralston. Am Inst E E J 44:38-44 Ja '25

Productive load-development policy. F. H. Smith. Elec W 85:882 Ap 25 '25

Proportioning electric power to exhaust steam required. H: R. Gould. Power Pl Eng 27: 1223-4 D 15 '23

Radio increases use of energy 40 per cent. Elec W 84:1315 D 20 '24

Raising domestic use of energy. Elec W 86: 276 Ag 8 '25

Range load developed through co-operation. Elec W 86:227-8 Ag 1 '25

Refrigeration returns $3 per capita. il Elec W 86:957-8 N 7 '25

Refrigerator revenue $200 per kilowatt of demand. G. M. Dwelley. Elec W 85:415 F 21 '25

Residential customers' demand. Elec W 84: 892-4 O 25 '24

Residential fuel oil burners make desirable load. B. J. George. Elec W 85:1271-3 Je 13 '25

Spokane range sale adds $30,000 gross revenue. W. T. Ryan. Elec W 86:126 Jl 18 '25

Spring test of electric ranges in the Northwest. J Elec 55:284-7 O 15 '25

Steel-melting furnaces as a steady load. Elec W 84:1166 N 29 '24

Strip mine desirable load. A. Clabaugh. il Elec W 86:753-4 O 10 '25

Studying the range load in the Northwest. il Elec W 84:900 O 25 '24

Survey of appliance and lighting load. diag Elec W 86:375-6 Ag 22 '25

Totalizing alternating-current power loads. V: H. Todd. diags Power 60:47-9 Jl 8 '24

Transformer load densities shown graphically. diag Elec W 83:728-9 Ap 12 '24

Transmission of meter readings by the impulse method. B. H. Smith. il diags Elec J 21:219-21 My '24

Use of electric service in industry. G. M. Gadsby. Ann Am Acad 118:68-77 Mr '25

Utilities and the ice business; advantages of combining the two businesses. A. J. Authenreith. il Elec W 86:844-6 O 24 '25

ELECTRIC plants (central stations)—Load —*Continued*
Value of the household appliance load; report of N.E.L.A. committee. Elec W 85: 1321-2 Je 20 '25
Variation of power station efficiency with output. R. H. Parsons. Engineering 120:33-5 Jl 10 '25
Water-works construction offers 1,400-hp. load. B. J. George. il Elec W 86:806-7 O 17 '25

Load and power indicating
Automatic transmission of power readings. B. H. Smith and R. T. Pierce. il diags Am Inst E E J 43:101-5 F '24; Discussion. 43: 1178-80 D '24
Design and application of system calculating board; report of Pacific coast electrical association. J Elec 54:478-9 Je 1 '25
Remote metering by the impulse and condenser method. B. H. Smith. il diags Elec J 21:355-7 Ag '24
Station readings brought to dispatcher. R. Bailey. il diag Elec W 84:215-17 Ag 2 '24
System calculating board. E. F. Pearson. il Elec W 85:723 Ap 4 '25
System indicator board easily constructed. H. H. Rugg. il Elec W 86:804-O 17 '25
Thomas averaging recorder for electric power supply. il Engineering 119:417 Ap 3 '25
Totalization of power readings. R. T. Pierce. il diags Elec J 21:103-5 Mr '24
Totalizing alternating-current power loads. V: H. Todd. diags Power 60:47-9 Jl 8 '24
Totalizing and remote indication of electric power and its reactive component. H. K. Nock and H. S. Edgerly. il diags Gen Elec R 27:758-61 N '24
Transmission and summation of meter readings by use of distant dial. R. E. Thatcher. il Elec W 84:1311-12 D 20 '24

Load dispatching
Graph assists load dispatchers. C. P. Coney. Elec W 86:371 Ag 22 '25
Load control in automatic hydro-electric generating stations. R. C. Denny. diags Power 59:716-17 My 6 '24
Load dispatching system of P.G. & L. co. C. W. Geiger. il map Power Pl Eng 28:543-5 My 15 '24
Miniature of 13.2-kv. lines facilitates dispatching. L. G. Wainman. il diag Elec W 83:432 Mr 1 '24
Operating a fully interconnected system. A. M. Perry. map Elec W 86:657-62, 693-6 S 26-O 3 '25; Discussion. G. A. Iler. 86: 853 O 24 '25
Remote control for sub-stations. C. J. Sarjeant and T. N. Riley. il Electrician 93:12-13 Jl 4 '24
Supervisory systems for control and indication of remote power equipment. C. E. Stewart and J. C. Field. il diag plan Gen Elec R 27:121-9 F '24
System operating and dispatching board. A. P. Broadhead. il Elec W 83:627-8 Mr 29 '24
System operation for safety. C. P. Hubbard and G: Opp. il Nat Safety N 11:11-14 Ap '25
Variable load chart for system dispatching. J. V. Wall. diag Elec W 83:1137 My 31 '24

Location
Airplane speeds up power surveys. J. B. Beadle. il maps Elec W 86:311-14 Ag 15 '25
Best site for a power station. A. Russell. Inst E E J 62:12-13 D '23
Influence of water on the location of giant power plants. A. Ulmann, jr. Ann Am Acad 118:141-8 Mr '25

See also Electric plants (central stations) —Mine-mouth plants

Maintenance and repair
Maintenance schedule of Texas company. Elec W 83:238-9 F 2 '24

Management
Aids to continuity of service, safety and economy of operation. G. G. Post. Elec W 85:1403-4 Je 27 '25
Electric light plants contemplating a plunge into gas, coke and byproduct business. A. G. Christie. Coal Age 26:686-8 N 13 '24
Engineer in central-station development. H. P. Liversidge. il diag Elec W 85:1799-1203 Je 6 '25
Engineering analysis characterizes Hudson Avenue operation; abstracts. E. C. M. Stahl. il charts Power 61:827-30 My 26 '25; Elec W 86:165-7 Jl 25 '25
From 22 per cent operating loss to 7 per cent profit. V. K. Stanley. Power 59:785-6 My 13 '24
Increased economy warrants increased investment. C. W. De Forest. Elec W 86:605-7 S 26 '25
Keeping appliances at work. il Elec W 84: 1008-9 N 8 '24
Low-temperature distillation and the central station. G: A. Orrok. Elec W 86:620-2 S 26 '25
Modernizing the small plant. M. D. Leslie. il Elec W 84:470-2 S 6 '24
Station fired with oil and coal; design of 8,000-kw. plant for Sedalia, Mo. E. J. Burger. il diag plan Elec W 84:1039-43 N 15 '24
Urge to securing high plant economy. Elec W 86:172 Jl 25 '25

See also Electric utilities—Management

Mine-mouth plants
Better methods and improved equipment increase production at Beech Bottom mine, Power, W. Va. A. F. Brosky. il diags Coal Age 25:521-7 Ap 10 '24
Coal field systems to be interconnected. map Power Pl Eng 28:512 My 1 '24
Electrical features of Pine Grove station. C. D. Gray and M. M. Samuels. il diags plans (supp) Elec W 84:56-62 Jl 12 '24
Electricity supply from the pit head; the Pooley Hall colliery co.'s undertaking. il Elec R (Lond) 97:124 Jl 24 '25
Engineer's committee reports on Northeastern super-power. map Eng N 93:186-8 Jl 31 '24; Power 59:584 Ap 8 '24
Mine mouth plant in Indiana just put in service; Wabash river plant of the Indiana electric corp. il diags map plan Power Pl Eng 28:682-92 Jl 1 '24; Abstract. Mech Eng 46:555 S '24
Miners turn to giant power. M. Coleman. Ann Am Acad 118:60-2 Mr '25
Mouth-of-mine power plants. H. D. Fisher. Power 60:505 S 23 '24
No Northeast hydro growth after 1930. Elec W 83:688 Ap 5 '24
Le prix de revient de l'énergie électrique et les projets de supercentrales, aux Etats-Unis. A. Antoine and A. Libault. map Génie Civil 85:403-5 N 1 '24
Saxton plant of the Penn Central light & power company. A. Iddles. il diags map plan Power 59:592-9 Ap 15 '24

See also Electricity in mining

Protection

See Electric protective apparatus

Rates

See Electric rates

Reconstruction
Old station grows to large proportions; Bennings station at Washington. W. R. McCann. il Power Pl Eng 29:546-8 My 15 '25
Reconstruction of the Bow power station. il diag Elec R (Lond) 96:819-22 My 22 '25; Electrician 94:594-6 My 22 '25; Engineer 139:542-3, 546 My 15 '25; Engineering 119: 635-7, 640 My 22 '25

Records
Allocating energy and losses. Elec W 85:1084-5 My 23 '25
Card system used for protective equipment records. J Elec 54:56-7 Ja 15 '25
Outages of equipment checked regularly. R. D. Gillespie. Elec W 85:1085 My 23 '25
Overhead distribution maps for central stations. H. S. Chartier. Elec W 84:1365-6 D 27 '24

ELECTRIC plants (central stations)—Records —*Continued*

Record system for meters and transformers. il Elec W 85:461-2 F 28 '25

Working records for large generating sets. Elec R (Lond) 94:953-4 Je 13 '24

Safety devices and measures

Mastering the hazards of power plant operation. J: M. Sandel. il Nat Safety N 12:39-40 N '25

System operation for safety. C. P. Hubbard and G: Opp. il Nat Safety N 11:11-14 Ap '25

See also Electric substations—Safety devices and measures

Statistics

Central-station companies and municipal plants in the United States, its possessions and Canada, as of Jan. 1, 1924. Elec W 83: 1228 Je 14 '24

Central-station customers total 12,353,790. Elec W 83:187-8 Ja 26 '24

Central-station industry reports record operations during 1923. il Elec W 83:25-6 Ja 5 '24

Central-station lighting and power customers, showing growth during 1923. Elec W 84:790, 791 O 11 '24

Central station operation; monthly statistics published in Electrical world in the first number of each month

Central-station revenue returns to normal during October. Elec W 85:97 Ja 10 '25

Central stations eliminating steam engine. Elec W 86:314-15 Ag 15 '25

Construction in 1925 put at $580,000,000. Elec W 85:561-2 Mr 14 '25

Electric power production by central stations a business indicator. Elec W 83:177 Ja 26 '24

Electric public-utility power plants increase efficiency 33 per cent in 4 years. Eng & Contr (W W) 62:112 Jl 9 '24

Electrical energy consumption as a barometer of business trend. T. Dwight. Annalist 23: 263-5+ F 25 '24

Energy requirements for first six months of 1924 6.7 per cent over last year. Elec W 84: 458-9 S 6 '24

Energy requirements for first half of 1925 8.4 per cent over last year. Elec W 86:461, 463 S 5 '25

Fourteen systems with output of more than a billion kilowatt-hours in 1923 in United States and Canada. Elec W 83:715-19 Ap 12 '24

Generator rating totals 21,932,996 kva. Elec W 85:968-9 My 9 '25

Growth in 1917-1922. Elec W 83:587 Mr 22 '24

Growth of the electric light and power industry. C: H. Bremley. Power 58:788 N 13 '23

House wiring increases residential revenue 353.5 per cent. L. T. White. Elec W 85:210-11 Ja 24 '25

Hundred-million-kilowatt-hour systems in United States and Canada total 111 in 1924. tables (supp) Elec W 85:874 Ap 25 '25

Industrial load of Middle Atlantic states. Elec W 86:744-5 O 10 '25

Industrial load of New England. Elec W 86: 512-13 S 12 '25

Industrial power requirements less than last year. Elec W 84:218-19 Ag 2 '24

Large growth indicated by 1922 census. map Elec W 85:875-7 Ap 25 '25

Der leistungsvermögenstarif. T. Greve. Elektrotech Zeit 45:681-4 Je 26 '24

Looking ahead ten years. R. M. Davis. Elec W 83:17-24 Ja 5 '24

Material decrease in industrial power requirements. Elec W 84:17-18 Jl 5 '24

More than two million new customers in 1924. Elec W 86:68-9 Jl 11 '25

Nine months' output shows gain of 23.7 per cent over 1922. Elec W 82:1115-16 D 1 '23

Ninety-five systems of more than 50,000 kva. generator rating. Elec W 86:262-3 Ag 8 '25

Number of generation plants now totals 5,419. Elec W 83:426 Mr 1 '24

One billion for new construction; record steam and hydro-electric development under way during 1924. maps Elec W 85:14-21 Ja 3 '25

Operating performance of steam-generating stations. V. E. Alden. Elec W 86:633-48 S 26 '25

Output of electricity in 1923 greatest for five years. Power 59:311 F 19 '24

Output passes five billion mark in December. Elec W 85:560 Mr 14 '25

Power companies' reports. Elec W 83:350 F 16 '24

Power stations and extensions now under way. Elec W 82:1134-5 D 1 '23

Production of electric power and consumption of fuels by central stations. Survey of Cur Business 44:29 Ap '25

Production of electric power increases 17 per cent in 1923. Power Pl Eng 28:314 Mr 1 '24

Production of electricity gains during 1924. Power 61:281 F 17 '25

Production of electricity in 1919 and other years including 1923. Manuf Rec 85:65-6 Je 26 '24

Public-utility electric-output curve constant. Power 62:629 O 20 '25

Year of new records. maps Elec W 85:5-8 Ja 3 '25

Telephone

Power company communication systems. H. N. Kalb. il diags J Elec 55:302-3, 338-9 O 15-N 1 '25

Africa, East

Electricity supply at Mombasa; inauguration of new generating station. il Elec R (Lond) 95:646 O 31 '24

Power supply in East Africa. Electrician 94: 511 My 1 '25

Arizona

Arizona reports large central-station growth. Elec W 82:1012 N 17 '23

Aurora, Illinois

Aurora plant addition built in six months. il plans Power Pl Eng 28:463-70 My 1 '24

Australia

Osborne (Adelaide) power station and transmission system. F. W. H. Wheadon. il diags Engineer 140:133-8, 142, 158-60, 166 Ag 7-14 '25; Abstracts. Elec R (Lond) 95: 361-5, 397-401 S 5-12 '24; Electrician 93: 258-60, 316-18 S 5, 19 '24

Baltimore, Maryland

High load diversity in Baltimore. Elec W 85: 569-70 Mr 14 '25

Beaumont, Texas

Beaumont, Texas, to have 300,000-kw. plant. Power Pl Eng 29:1030-1 O 1 '25

Bergen, Norway

Electrical development in Bergen, Norway. Elec W 86:9 Jl 4 '25

Birmingham, England

Birmingham corporation's Princes-street station at Nechells. il diag Engineer 139:654, 660-1 Je 12 '25; Engineering 119:742-3 Je 12 '25; Electrician 94:680-1 Je 12 '25; Elec R (Lond) 96:939-40 Je 12 '25

Brighton, England

Brighton's electricity extensions. il Electrician 93:284-5 S 12 '24; Elec R (Lond) 95: 421-2 S 19 '24; Engineering 118:372, 374 S 12 '24

Incorporated municipal elecrical association 30th annual meeting, Brighton, Eng. Elec R (Lond) 96:941-3 Je 12 '25

Brooklyn, New York

Construction and mechanical features of the Hudson Avenue station of the Brooklyn Edison company. J. N. Landis. il diags Elec J 22:155-66 Ap '25

ELECTRIC plants (central stations)—Brooklyn, New York—*Continued*
Electrical circuits and switching equipment of the Hudson Avenue station of the Brooklyn Edison company. E. A. Hester. il diags Elec J 22:166-80 Ap '25; Same (Tr. by J. Sessinghaus). Elektrotech Zeit 46:1137-43 Jl 30 '25
Fourth unit extension for the Hudson Ave. generating station of the Brooklyn Edison company. H. R. Woodrow. Elec J 22:355-6 Jl '25
Fundamental plan in the electrical design. H. R. Woodrow. diags Elec J 22:153-5 Ap '25
Hudson Avenue—Brooklyn Edison's superstation. il diags map Power 59:750-8 My 13 '24; Power Pl Eng 28:549-53, 706-9 My 15, Jl 1 '24
Das Hudson Avenue-kraftwerk in Brooklyn, F. Ohlmüller. diags map Elektrotech Zeit 45:1101-8 O 16 '24
Unusual features in the design of the Hudson Avenue station. il diags Elec W 83: 867-76 My 3 '24

Calcutta, India
Calcutta electricity supply undertaking; the Cossipore power station. W. Twinch. il Elec R (Lond) 94:659-63 Ap 25 '24
Modern tropical central station; power plant improvements of the Calcutta electric supply co. P. A. Packard. il Power 61:220-2 F 10 '25

California
Pacific gas and electric company power interchange; report of Pacific coast electrical association. J Elec 54:469-70 Je 1 '25
Power interchange in San Joaquin valley in 1924; report of Pacific coast electrical association. J Elec 54:466-9 Je 1 '25

Canada
Canada's central stations. Elec W 83:593 Mr 22 '24

Cape Town, South Africa
Electricity supply in Cape Town. il Elec R (Lond) 95:739-40 N 14 '24

Carlisle, England
Progress at Carlisle. il Electrician 94:212 F 20 '25

Chicago, Illinois
Constructing the world's largest power station; the Crawford station of the Commonwealth Edison company, of Chicago. il Power Pl Eng 27:1136-7 N 15 '23
Crawford Avenue station. W. L. Abbott. diags plans Elec W 86:113-19 Jl 18 '25
Crawford Avenue station of the Commonwealth Edison company. il diags plans Power 61:936-44 Je 16 '25
Crawford Avenue station ready. Elec W 85: 1092 My 23 '25; Power 61:891 Je 2 '25
Engineering features of Crawford Ave. station. il diags plans Power Pl Eng 29:676-88 Jl 1 '25
New Insull power house 750,000 kilowatt capacity. il Pub Serv Management 39:45+ Ag '25

Cleveland, Ohio
Avon station begun. plan Elec W 85:939 My 2 '25

Colorado
Features of Valmont station. R. F. Throne and W. D. Hardaway. il diags plan Elec W 85:1252, 1257-62 Je 13 '25
Valmont station now in service. R. R. Throne. il diags Power Pl Eng 29:932-40 S 15 '25
Valmont steam plant of the Public service company of Colorado. il diags plan J Elec 55:160-6 S 1 '25

Connecticut
Devon station marks forward step in development of New England superpower. il diags map plan Elec W 83:562-70 Mr 22 '24
Devon station of the Connecticut light & power company. il map plans Power 59: 474-80 Mr 25 '24

Czechoslovakia
Elektrisierungsarbeiten in der tschechoslowakischen republik. Elektrotech Zeit 46:893-4 Je 11 '25

Denmark
Electric plants in Denmark. Elec W 85:716 Ap 4 '25

Detroit, Michigan
Design features of Trenton Channel. P. W. Thompson. il plans Elec W 83:1118-28 My 31 '24
New station for Detroit Edison co. A. K. Bak and R. B. Purdy. il diags Power Pl Eng 28: 579-85 Je 1 '24
Trenton Channel plant of the Detroit-Edison co. C. H. Berry. il diags plan Power 59: 848-57 My 27 '24
Trenton Channel plant of the Detroit Edison company. C. F. Hirshfeld. diags maps Am Inst E E J 44:708-18 Jl '25; Discussion. 44: 886-95 Ag '25
Unusual electrical features found in Trenton Channel station. il diags Elec W 85:238, 247-52 Ja 31 '25

Eastbourne, England
New electrical plant at Eastbourne. il Elec R (Lond 94:741 My 9 '24

England
Aggcroft power station. Engineer 140:329 S 25 '25; Elec R (Lond) 97:499-503, 527-8, 553 S 25-O 2 '25; Electrician 95:383-6 O 2 '25
Electricity in Barnsley. il Electrician 94:397+ Ap 3 '25
Electricity in Stroke-on-Trent. il Electrician 95:470+ O 23 '25
Electricity supply at Grimsby; recent generating plant extensions. il Elec R (Lond) 96: 259-60 F 13 '25; Electrician 94:150 F 6 '25
Electricity supply at Halifax; inauguration of new plant. il Elec R (Lond) 93:659-60 N 2 '23
Electricity supply at Torquay; the Newton Abbot generating station. Elec R (Lond) 95: 420-1 S 19 '24
Electricity supply at Tunbridge Wells. il Elec R (Lond) 96:604-5 Ap 17 '25; Electrician 94: 458-9 Ap 17 '25; Engineering 119:482, 487-8 Ap 17 '25
Electricity supply in Halifax. il Electrician 95:298+ S 11 '25; Elec R (Lond) 97:620 O 16 '25
Electricity supply in Nottingham and district; the new North Wilford power station. il Elec R (Lond) 97:459-63, 488-9 S 18-25 '25; Electrician 95:321-4 S 18 '25; Engineering 120:395 S 25 '25
Extensions to Fulham electric power station. il Engineering 120:488-90 O 16 '25; Elec R (Lond) 97:659-61 O 23 '25
North Metropolitan electric power supply company's undertaking. il map Elec R (Lond) 94:19-23, 59-61 Ja 4-11 '24
North Tees power station. il map Engineering 117:753-5; 118:57-9, pl 75-7 Je 13, Jl 11 '24; Engineer 137:658, 664-5 Je 13 '24; Electrician 92:724-7 Je 13 '24; Elec R (Lond) 95: 18-22 Jl 4 '24; Power 60:191-2 Jl 29 '24
Plants inspected by electrical engineers at summer meeting. il diag plan Engineer 139:677-80 Je 19 '25; Engineering 119:772-5 Je 19 '25; Elec R (Lond) 96:979-83 Je 19 '25; Electrician 94:681-3 Je 12 '25
Progress in the Hull area. R. W. Lawson. il Electrician 93:209-10 Ag 22 '24
Thornhill power station of the Yorkshire electric power company. il Engineer 140:32-3 Jl 10 '25; Engineering 120:56-7 Jl 10 '25; Electrician 95:37-9 Jl 10 '25; Elec R (Lond) 97: 99-103 Jl 17 '25
Wigan area; low electricity charges encourage development. T: Meadows. il Electrician 93:157 Ag 8 '24
See also Hydroelectric plants—England

Europe
Central station practice in Europe. B. G. Jamieson. il map W Soc E J 29:247-56 Je '24

ELECTRIC plants (central stations)—*Cont.*

Florida

Keeping step with Florida's growth. map Elec W 86:713-14 O 3 '25

Fort Dodge, Iowa

New plant at Fort Dodge shows high economy. il diags Power 60:676-81 O 28 '24

France

Gennevilliers power station largest in operation. Power 62:715 N 10 '25

Germany

Der aufbau der öffentlichen elektrizitätswirtschaft auf der braunkohle Mitteldeutsch-lands. H. Jahncke. il maps Elektrotech Zeit 45:909-13, 928-31 Ag 21-28 '24

Das deutsche hochvoltnetz. map Elektrotech Zeit 46:430-2 Mr 19 '25

Die elektrizitätswirtschaft des Rheinlandes. A. Schreiber. il diags map Zeit Ver Deutsch Ing 69:1037-42 Ag 1 '25

Elektrotechnische betriebserfahrungen bei der grosskraftversorgung. A. Peucker. il diags map Elektrotech Zeit 46:69-75 Ja 15 '25

Die gegenwärtige versorgung der stadt Berlin und der provinz Brandenburg mit elektrischer arbeit. B. Thierbach. il diags map plans Elektrotech Zeit 46:1465-71 S 24 '25

Höchstspannungsfragen und nullpunktserdung. A. Rachel. Elektrotech Zeit 46:1347-50 S 3 '25

Das 100 kv-netz der sächsischen landesversorgung. A. Rachel. diags map Elektrotech Zeit 45:21-5, 53-9 Ja 10, 24 '24

Das neuzeitliche elektrizitätswerk. G. Klingenberg. il plan Zeit Ver Deutsch Ing 69: 1285-8 O 10 '25; Same (Station design in Germany). Elec W 86:652-5 S 26 '25

Neuzeitliche energiewirtschaft. H. v. Glinski. diags maps Zeit Ver Deutsch Ing 69:179-84 F 14 '25

Das Thüringenwerk. A. Schönberg. map Elektrotech Zeit 45:577-9 Je 5 '24

Das überlandwerk Ullila in Estland. A. Thomson. il Elektrotech Zeit 45:956-9 S 4 '24

Umspannwerk Godenau der grosskraftwerk Hannover; abstract. P. Räbinger. il diag map plan Elektrotech Zeit 46:927-8 Je 18 '25

Verteilung der elektrischen energie mit besonderer berücksichtigung des Bayernwerkes. A. Menge. il diags maps plans Zeit Ver Deutsch Ing 69:577-87, pl 3 My 2 '25

Der zustand der elektrischen starkstromanlagen, seine verbesserung und künftige sicherung. C. L. Weber. Elektrotech Zeit 45:293-4 Ap 3 '24

Glasgow, Scotland

Dalmarnock electricity works. W: Burnside. Engineering 117:511-12 Ap 18 '24; Abstract. Elec R (Lond) 94:638-9 Ap 18 '24

Great Britain

Electricity commissioners statistics for the year ended March 31, 1925. Elec R (Lond) 97:253-4 Ag 14 '25

Generation of electricity in Great Britain; fuel consumption and kWh generated during 1923-24. Elec R (Lond) 95:448-9 S 19 '24

Statistics of electricity supplies, 1920-1923. Engineering 120:50 Jl 10 '25

Hastings, England

Hastings electric power station. il diags Engineering 119:666-70 My 29 '25; Electrician 94:626-7+ My 29 '25; Elec R (Lond) 96:860-3 My 29 '25

Illinois

Joliet plant enlarged. il Elec W 85:343-4 F 14 '25

New addition to Joliet plant completed. il diags plan Power Pl Eng 29:249-54 F 15 '25

New Waukegan plant handles increased load. il diags plans Power Pl Eng 28:119-26 Ja 15 '24; Elec W 83:78-86 Ja 12 '24; Power 59:80-6 Ja 15 '24

India

Agra electric lighting. il Elec R (Lond) 96: 484 Mr 27 '25

Indiana

Mine mouth plant in Indiana just put in service; Wabash River plant of the Indiana electric corp. il diags map plan Power Pl Eng 28:682-92 Jl 1 '24

Rehabilitation of two Indiana plants increase efficiency. il diags map Power Pl Eng 28: 834-42 Ag 15 '24

Wabash River power station at Dresser, Ind. Munic & Co Eng 67:173-5 O '24

Iowa

Additional power for the tri-cities; Riverside station of the United light & power co. il diags Power Pl Eng 29:516-22 My 15 '25

Riverside station of the United light and power company. il diags plan Power 61:46-51 Ja 13 '25

Italy

Italian electric power industry status. Power 62:269 Ag 18 '25

L'usine de gazéification de la tourbe et la centrale thermo-électrique de Torre del Lago (Italie). G. Pasella. diag Génie Civil 86:562-3 Je 6 '25

Japan

Damage done to power equipment by the earthquake in Japan. Power 62:189-90 Ag 4 '25

Japanese frequency dilemma. M. Fukuda. map Elec W 83:380-2 F 23 '24; Discussion. E. C. Harris. 83:675 Ap 5 '24

Status of the central station in Japan. map Elec W 85:1018-19 My 16 '25

Super-power in Japan. M. Fukuda. map Gen Elec R 28:542-9 Ag '25

Die zerstörung elektrischer anlagen in Japan durch das erdbeben. il Elektrotech Zeit 45: 76-7 Ja 31 '24

Lancaster, England

Electricity supply at Lancaster. il Elec R (Lond) 95:145-7 Jl 25 '24

Leicester, England

New Leicester central generating station. T. R. Smith. Inst E E J 63:29-34 D '24; Abstract. Elec R (Lond) 95:796-7 N 21 '24

London, England

Barking power station of the County of London electric supply co. il Engineer 139: 568-9 My 22 '25; Electrician 94:597 My 22 '25; Elec R (Lond) 96:859-60 My 29 '25; Elec W 85:1230 Je 6 '25

Extensions to St Pancras power station. il Engineering 118:642-3 N 7 '24; Elec R (Lond) 95:741-3 N 14 '24

Long Beach, California

Characteristics of new Long Beach plant. il plans Elec W 85:1394-7 Je 27 '25

Long Beach steam station of the Southern California Edison co. F. S. Clark and M. W. Carty. il diags Power 61:246-54 F 17 '25

Lorain, Ohio

Lorain plant operates with two pressures. il diags Power Pl Eng 27:1117-23 N 15 '23

Los Angeles, California

Seal Beach plant operating; abstracts. J. G. Rollow and D. L. Galusha. il diags plans Elec W 85:1116, 1123-7 My 30 '25; J Elec 54:576-80 Je 15 '25

Seal Beach power station. il diags plans Power Pl Eng 29:618-30 Je 15 '25

Seal Beach power station. J. G. Rollow and C. W. E. Clarke. il diags plan Elec J 22: 281-5 Je '25

Seal Beach station of the Los Angeles gas and electric corporation. il plans Power 61: 856-61 Je 2 '25

ELECTRIC plants (central stations)—*Continued*

Lydney, England

Visit to Lydney. il Elec R (Lond) 94:857-8 My 23 '24

Manchester, England

Barton power-station of the Manchester corporation, and the transmission-system in connection therewith. H. N. Allott and S. L. Pearce. Engineering 117:511 Ap 18 '24; Same cond. Elec R (Lond) 94:638 Ap 18 '24

England's latest generating station; features of the Barton station of the Manchester corp. electric dept. il Elec W 82:1010-12 N 17 '23

Maryland

14,000-kw. station at Williamsport, quickly designed and built. il plans Power 59:354-60 Mr 4 '24

Massachusetts

Electrical features of the Somerset station. il plans Power Pl Eng 29:750-4 Jl 15 '25

Fresh water supply for Somerset station Montaup electric company. D. M. Wood. il diags plans Boston Soc C E J 12:333-43 O '25

Somerset another step toward super-power. il diags plans Power Pl Eng 29:368-76 Ap 1 '25; Abstract. Mech Eng 47:509-10 Je '25

Middle Atlantic states

Industrial load of Middle Atlantic states. Elec W 86:744-5 O 10 '25

Middle Western states

Power development in the Middle West. W. L. Abbott. maps Am Soc C E Pro 51:1333-9 S '25; Discussion. 51:1995-6 D '25

Milwaukee, Wisconsin

Comparison of actual performance and theoretical possibilities of the Lakeside station. M. K. Drewry. diags Mech Eng 47: 811-14 O '25; Abstract. Power Pl Eng 29: 789-91 Ag 1 '25; Excerpt. Power 61:846 My 26 '25

Minnesota

Minnesota power and light company serving Duluth district. map Elec W 82:1238 D 15 '23

Twin Cities new plants. Elec W 83:848 Ap 26 '24

New England

Industrial load of New England. Elec W 86: 512-13 S 12 '25

Interconnection proposed for New England. map Power Pl Eng 28:653-5 Je 15 '24

New England interconnection. R. J. Andrus. il diags Elec W 83:127-30 Ja 19 '24

New Jersey

New $20,000,000 station for New Jersey is under way. Power Pl Eng 27:1159 N 15 '23

South Kearny, N.J., the latest of the great steam-electric power stations. il Sci Am 131:229 O '24

Work on Kearny plant progressing. il Power Pl Eng 28:310-11 Mr 1 '24

New York (city)

Construction methods on a 720,000-h.p. generating station; 74th street plant of the New York Edison company. F. W. Skinner. il diags Engineering 120:435-7, 501-4, 563-6 O 9, 23, N 6 '25

Largest electric generating station; East River station of the New York Edison company. Am Ind 25:27 Jl '25; Power Pl Eng 29:718-19 Jl 1 '25

Power generation in the Metropolitan district. J. H. Williams. Aera 13:1399-1401 Mr '25

New York (state)

How fast is the small customer's use of energy increasing? investigation in New York. W. M. Carpenter. Elec W 83:1232-4 Je 14 '24

Northeastern states

Super power studies for the Northeast section of United States by Northeastern super-power committee. folding maps 12p, pl 1-17 Federal power commission, Washington '24

Ohio

Columbia power station begins operation Nov. 12. il Power Pl Eng 29:1120-2 N 1 '25

Ohio takes high rank electrically. map Elec W 86:477 S 5 '25

Operating results at Philo; Ohio power company's plant sets new record for thermal efficiency. il Power 61:720-3 My 12 '25

Philo station establishes record of economy. il diags Power Pl Eng 29:570-81 Je 1 '25

Philo station sets record. M. L. Sindeband and P. Sporn. il diags map plan Elec W 86: 355-9, 403-8 Ag 22-29 '25

Oklahoma

Largest generating station in Oklahoma. il Elec W 84:1346 D 27 '24

Orkney Islands

Britain's most northerly electricity station; the Kirkwall installation. il Elec R (Lond) 94:404-5 Mr 14 '24

Pacific coast

Physical aspects of the Pacific coast interconnected system. map J Elec 52:100-1 F 1 '24

Superpower on the Pacific coast. G: C. Tenney. il maps J Elec 52:82-91 F 1 '24

Pennsylvania

Charleroi substation of the West Penn power company. G: S. Humphrey. il diags map plan Elec J 21:498-504 N '24

Fault found with cost data of Giant power survey report. J. B. Crane. Elec W 85:616 Mr 21 '25

Giant power survey report; discussion. W. S. Murray. Elec W 85:512-13 Mr 7 '25

Low operating costs and fixed charges at Pine Grove station. G. G. Hollins. il diags Power Pl Eng 29:222-7 F 15 '25

Metropolitan Edison company's Middletown plant. il diag Power 58:1026-7 D 25 '23

Metropolitan power co. is installing 30,000 Kw. at Middletown, Pa. diags Power Pl Eng 28:160-1 Ja 15 '24

Pennsylvania's giant power survey. Elec W 84:1373-4 D 27 '24; Same. Power 61:42 Ja 6 '25

Pinchot superpower report outlines plan and cost. il Coal Age 27:370 Mr 5 '25

Power development policy for Pennsylvania outlined. Eng N 94:365-7 F 26 '25

Power in Pennsylvania. C: Penrose. N E L A Bul 12:224-9 Ap '25; Excerpts. Elec W 85: 578-9 Mr 14 '25; Power 61:510-11 Mr 31 '25

Peoria, Illinois

Initial units at Peoria rated at 40,000 kw. H. G. Kniese. il Power Pl Eng 29:320-2 Ag 1 '25

New station under construction at Peoria, Illinois. il diags Power 59:630-3 Ap 22 '24

Philadelphia, Pennsylvania

Operating features at Delaware. il diag plan Power Pl Eng 28:537-42 My 15 '24

Philadelphia's new Richmond station. il plans Elec W 85:1074-5, 1077 My 23 '25

Pittsburgh, Pennsylvania

Electric power in Pittsburgh district. W. F. Rittman and S. B. Ely. il map Elec W 83: 1271-6 Je 21 '24

Power service for the steel industry in the Pittsburgh district. C: R. Riker. Elec J 21: 442-5 S '24

Preston, England

Ribble power station of Preston corporations. diag plan Engineering 120:73-6, pl 5-8 Jl 17 '25; Electrician 95:126-8 Jl 31 '25; Elec R (Lond) 97:179-83 Jl 31 '25; Engineer 140: 96 Jl 24 '25

ELECTRIC plants (central stations)—*Continued*

Rugby, England

Developments at Rugby. S. T. Watkins. il Electrician 92:701 Je 6 '24

Russia

Russia's power plans call for $80,000,000 expenditure. Power 62:117 Jl 21 '25

St Louis region

Cahokia. O. S. Arata. il Sci Am 131:250 O '24
Cahokia; first large station with the pulverized fuel equipped in the same building with the boilers. il diags plan Power Pl Eng 28:365-71, 397-401 Ap 1 '24
Cahokia power houses. D: Brownlie. il Electrician 92:132-3 F 1 '24
Cahokia power plant; pulverized-fuel, isolated-phase station. il diags plans Elec W 83:610-20, 659-66 Mr 29-Ap 5 '24
Cahokia power station of the Union electric light & power co., of Illinois. P. Junkersfeld. il diags plan Elec J 21:232-42 My '24
Cahokia station, Union electric light & power company, St Louis, Mo. il diags plans Power 59:514-24 Ap 1 '24
Electricity supply at St Louis, U.S.A.; the new Cahokia pulverised-fuel power station. il diag plan Elec R (Lond) 95:25-7 Jl 4 '24
Les stations centrales électriques chauffées au charbon pulvérisé de Cahokia et de Peoria (Etats-Unis). il diags plans Génie Civil 84:561-5 Je 14 '24

St Paul, Minnesota

Completing High Bridge plant at St Paul. il Elec W 84:1347-9 D 27 '24
High Bridge steam plant at St Paul. il diags plan Power 60:1006-13 D 23 '24
St Paul Island station. Elec W 85:664 Mr 28 '25

Scandinavia

Inter-Scandinavian superpower project. diag map Elec W 82:963-4 N 10 '23

Scotland

West of Scotland interconnection scheme; the inauguration of the Greenock-Paisley section. il diags Elec R (Lond) 96:61-3 Ja 9 '25

Shanghai, China

Chinese Diesel-engined power station. il diag Elec R (Lond) 96:752 My 8 '25
La nouvelle centrale électrique à moteurs Diesel de la Concession française de Shanghaï. il diags Génie Civil 85:599-603 D 27 '24; Abstract. Electrotech Zeit 46:269 F 19 '25
Shanghai electricity supply; the Riverside power station. il Elec R (Lond) 95:22-3 Jl 4 '24

Sioux City, Iowa

Features of the new Sioux City station. K. M. Irwin. il diag Elec W 86:684-9 O 3 '25; Same. Power Pl Eng 29:1034-41 O 15 '25

South Africa

Electric power on the Rand. il Elec R (Lond) 95:24 Jl 4 '24
Electrical development in South Africa. Elec W 85:508 Mr 7 '25

Southampton, England

Developments at Southampton. W. G. Turner. map Electrician 93:130-1 Ag 1 '24
Electricity supply in Southampton. il Electrician 95:415-16 O 9 '25
Southampton electricity undertaking. W. G. Turner. Elec R (Lond) 97:391-3 S 4 '25

Southeastern states

Interconnected power systems of the Southeast. C: G. Adsit. maps Am Soc C E Pro 50:1286-1302 O '24; Discussion. 50:1527-32 N '24
Interconnection of power systems in the Southeastern states. W. E. Mitchell. Am Inst E E J 43:1150-3 D '24; Abstract. Power 60:780-1 N 11 '24; Discussion. Am Inst E E J 44:397 Ap '25
Superpower network proposed for Southeast. E. Wortham. map Elec W 84:414-15 Ag 30 '24

Southern states

Power supply of southern industry; the Piedmont section of the Carolinas. R. G. Macy. il maps Management & Adm 7:663-8 Je '24
South boasts 2,000,000 hp. Elec W 85:734 Ap 4 '25
South builds new power plants in 1924, adding 210,000 horsepower. J. H. Reed. il Pub Serv Management 38:84-5 Mr '25

Switzerland

Das Barberine-speicherkraftwerk; abstract. il map Elektrotech Zeit 45:777 Jl 17 '24

Tennessee

Electrical development in eastern Tennessee. map Elec W 82:985 N 10 '23
Progress in Tennessee. Elec W 84:83 Jl 12 '24
Tennessee commission issues central-station and transmission map of state. map Elec W 84:433 Ag 30 '24
Tennessee's part in southern super-power. A. H. Temple. il Comm & Fin 13:2009+ O 15 '24

Texas

Deepwater steam-electric plant now operating at Houston. il Manuf Rec 87:108-9 Je 4 '25
New Texas central station near Trinidad. Elec W 84:1327 D 20 '24

United States

American power stations. Elec W 86:5-9 Jl 4 '25
Electrical industry in 1930. C: E. Neil. Elec W 86:368 Ag 22 '25; N E L A Bul 12:580-1 S '25
Good performance of American central stations. il Elec W 85:1203 Je 6 '25
Great coal-fired power stations of the United States. W. H. Patchell. il diag Engineer 139:264-5 Mr 6 '25
Interconnection, super-power and electrification. S. Q. Hayes. Elec J 21:72-7, 118-26, 166-76, 247-54 F-My '24
Review of the development of the electric light and power industry 1920-30. D: Cowan. Elec W 85:1391-1400 Je 27 '25; Same. Can Eng 49:271-4, 293-6 S 1-8 '25; Excerpts. Power 62:16-18 Jl 7 '25
Some central stations completed or nearing completion in 1924. il Power 61:4-5 Ja 6 '25

Utica, New York

Harbor Point station will operate first unit in 1926. il Power Pl Eng 29:757 Jl 15 '25

Wales

See also Hydroelectric plants—Wales

Washington, D.C.

Old station grows to large proportions; Bennings station at Washington. W. R. McCann. il Power Pl Eng 29:546-8 My 15 '25

Western states

Central station industry in the West showing record growth during 1925. J Elec 55:329-30 N 1 '25
Some additions to steam electric generating stations in the eleven western states, 1924-25. J Elec 54:90 F 1 '25

Weymouth, Massachusetts

Heating and ventilating a super-power plant; Weymouth power station. S: Sayward. il plans Dom Eng 113:22-4 N 7 '25
Mechanical design of Weymouth power station. E. W. Norris. il diags Mech Eng 47: 719-23 S '25
1,200-lb. boiler and turbine at Weymouth. il diags plans Power 62:394-8 S 15 '25
Pioneer engineering at Weymouth station. E. W. Norris, M. J. Lowenberg and T. E. Penard. il diags plans Elec W 85:808-15 Ap 18 '25

ELECTRIC plants (central stations)—Weymouth, Massachusetts—*Continued*
Weymouth power station of the Edison electric illuminating company of Boston. il plans (supp) Power 61:561-7 Ap 14 '25

Worcester, England

Extensions at Worcester. il Elec R (Lond) 94: 868-70 My 30 '24

ELECTRIC plants, Municipal
Attitude of Federal power commission toward municipalities defined. J Elec 53:321 N 1 '24
Deshler, Ohio, municipal light plant. il Power 62:320 S 1 '25
Diesel engine experience at Ponca City, Okla. J. W. Crow. il Elec W 85:1134-5 My 30 '25
Diesel engines eliminate losses in Carthage light plant. il Power 60:684-6 O 28 '24
Diesel engines for 200-kw. load for small town. R. W. Callaway. Elec W 83:1008-9 My 17 '24
Diesel municipal plant, Neodesha, Kan., shows profits. il Power Pl Eng 29:899-900 S 1 '25
Efficient oil engine light plant. R. C. Burrus. il diag plan Power 58:1016-20 D 25 '23
Investigation of Cleveland's light plant. Elec W 84:430-1 Ag 30 '24
Menasha's pumping and lighting plant. J. H. Kuester. il Pub Works 55:85-7 Mr '24
Michigan municipal light plants fast disappearing. N E L A Bul 11:226-7 Ap '24
Modern equipment reduces cost of power; steam equipment of the Abbeville, La., municipal light plant replaced by Diesels. il Power 60:210-11 Ag 5 '24
Municipal Diesel operation at low rates. P. S. Joy. il plan Elec W 85:757-9 Ap 11 '25; Discussion. R. G. Walter. 85:1027 My 16 '25
Municipal electricity undertakings of South Africa. Elec R (Lond) 96:1004-6 Je 26 '25
Municipal service for Muscatine. il diag plans Power Pl Eng 28:984-90 O 1 '24
New Crawfordsville unit shows high economy. il diags Power Pl Eng 28:1128-33 N 15 '24
Official report on Cleveland M.O. plant. il Pub Serv Management 37:102-6 O '24
Pasadena's municipal electric plant. il Pub Works 56:45 F '25
Pretoria municipal power station. Engineering 119:349-50, pl 20-1 Mr 20 '25
Regina municipal station makes good showing. E. W. Bull. plans Power 60:15-16 Jl 1 '24
Revamping municipal electric plant at Hannibal, Mo. il plan Power 59:394-7 Mr 11 '24
Six hundred and sixty city-owned plants abandoned—why? A. T. Clark. Elec W 82: 1222 D 15 '23

See also Skagit river power project

ELECTRIC power
Decentralization of industry through electric power may inaugurate a new epoch. Manuf Rec 86:51-2 O 23 '24
Economic aspects of electric power. E. D. Dreyfus. N E L A Bul 12:216-21 Ap '25; Same abr. Am Inst E E J 44:450 My '25
Electrical development in foreign countries. N E L A Bul 10:737-43 D '23
Electricity from wood. W. A. Perry. Electrician 93:128 Ag 1 '24
Die elektrotechnik im eisenhüttenwerk. D. W. Geyer. Zeit Ver Deutsch Ing 69:175-8 F 14 '25
German electric production. Iron Age 113:1761 Je 12 '24
Giant power; large scale electrical development as a social factor. Ann Am Acad 118: 1-175 Mr '25
Great Lakes division publishes report of power survey. N E L A Bul 11:436-7+ Jl '24
Industrial power of the Pittsburgh district outside that of the iron and steel industry. S. B. Ely and W. F. Rittman. il maps Mech Eng 46:861-5 D '24
Influence of cheap power on national prosperity. C. M. Ripley. diag Power 61:848 My 26 '25
Manufacturing electric power. H. E. M. Kensit. Can Eng 47:405-6 O 7 '24
Meeting the world-wide demand for more and cheaper electricity. A. C. Lescarboura. il Dun's Int R 46:41-5 N '25
New fields of research for power development. E. W. Rice, jr. Gen Elec R 27:572-9 S '24
Northeast power in 1930. map Elec W 84: 205-7 Ag 2 '24; Discussion. 84:418, 686 Ag 30, S 27 '24
Power development in 1923. H. P. Liversidge. il diag Elec W 83:11-15 Ja 5 '24
Power required for pulverising coal. R. H. Parsons. Elec R (Lond) 96:684-5 My 1 '25
Production of electric power and consumption of fuels by street railways, manufacturing plants, and reclamation projects. Survey of Cur Business 43:28 Mr '25
Report of the Giant power survey board to the General assembly of the commonwealth of Pennsylvania. 480p [bibliog. p. 389-409] Telegraph printing co., Harrisburg, Pa. '25
Report to the Associated industries of Massachusetts of its power investigating committee. 183p Associated industries of Mass., Boston '24
Super-power and its social significance. R. F. Schuchardt. W Soc E J 30:153-7 Ap '25
Sweep of industry toward electric methods. M. C. Krarup. Forbes 14:239+ My 24 '24

See also Coal mines and mining—Power; Electric currents; Electric distribution; Electric driving; Electric plants; Electric plants (central stations); Electric railroads—Power; Electric transmission; Electricity supply; Hydroelectric power; Paper mills—Power; Power factor; Rolling mills—Power; Sawmills—Electric equipment; Steel works—Power; Superpower surveys; Telephone exchanges—Power; Textile mills—Power; *also* World power conference, London, 1924

Contracts

See Power contracts

International aspects
Canada stands pat. Elec W 85:1358 Je 20 '25; Power 61:1009 Je 23 '25
Canadian engineers discuss power export. Elec W 85:527 Mr 7 '25
Canadian export tax widely discussed. Elec W 85:729-30 Ap 4 '25
Convention relating to the transmission in transit of electric power. Convention relating to the development of hydraulic power affecting more than one state. Conference on freedom of communications and transit, 2d, Geneva. 100p World peace foundation, Boston '24
Embargo on power exportation strongly opposed in Canada. C. McKay. Elec W 85:926 My 2 '25
Export of electrical power from Norway. S. Kloumann. Engineering 118:213-14 Ag 8 '24
Export of power; the position in Scandinavia—details of suggested schemes. Electrician 93:231 Ag 29 '24
Export tax will cost Buffalo $100,000. Elec W 85:784 Ap 11 '25
Hydro opposes Carillon lease. A. Beck. Can Eng 48:558 Je 9 '25; Elec W 85:1281 Je 13 '25
Leading engineers of U.S. and Canada debate hydro exportation. Elec W 86:864 O 24 '25
Power export. L. A. Taschereau. Elec W 85: 267 Ja 31 '25
Power export brings debate at Ottawa. Elec W 85:1095 My 23 '25
Proposed embargo on power exportation from Canada. C. McKay. Elec W 85:615-16 Mr 21 '25
Regulation of the import and export of electrical energy. A. Bouchayer. Engineering 120:209-13 Ag 14 '25
St John development and the Canadian export tax on power. C. McKay. Elec W 86: 69 Jl 11 '25
Senator Miles and other Canadian promoters point out gain from exportation policy. Elec W 85:369 F 14 '25

Interstate aspects
For free interstate exchange of power. O. C. Merrill. Elec W 85:836 Ap 18 '25

See also Electric utilities—Regulation

ELECTRIC power—*Continued*

Rates

See Electric rates

ELECTRIC power club

Electric power club as a business asset. A. E. Waller. Elec W 86:873-4 O 24 '25

Fall meeting, White Sulphur Springs, W. Va., Oct. 20-23. Elec W 84:905 O 25 '24

Power club activities. A. E. Waller. Elec W 85:1423 Je 27 '25

ELECTRIC precipitation

Detarring gases by electrical precipitation. N. H. Gellert. Am Gas J 121:1129-30+ N 1 '24

Determination of suspensoids by alternating-current precipitators. P. Drinker and R. M. Thomson. il J Ind Hygiene 7:261-72 [bibliog. p. 271-2] Je '25

Electric purification of gas; Lurgi and Oski methods. E. L. Heidenreich. il diags plans Concrete (cement mill sec) 25:107-9 D '24

Electrical cleaning of blast furnaces gases. N. H. Gellert. Blast F & Steel Pl 12:423-6 S '24

Electrical precipitation; abstracts. O. Lodge. Elec R (Lond) 95:716-17 N 7 '24; Electrician 93:523+ N 7 '24; Engineering 118:648-9 N 7 '24

Electrical precipitation in retrospect. W. A. Schmidt. il diags Ind & Eng Chem 16:1038-41 O '24

Electrical precipitation of tar. C: F. Morris. diag Gas Age 54:353-4 S 13 '24

Die elektrofilter-versuchsanlage zur reinigung von hochofengas auf den Rheinischen stahlwerken in Duisburg-Meiderich. H. Lent. diags Stahl & Eisen 43:1467-71; Discussion. 1471-4 N 29 '23

Elimination of radio disturbances caused by Cottrell precipitators. R. E. Boehler. diags Elec J 21:422-4 S '24

L'épuration électrique des gaz de hauts fourneaux. Génie Civil 86:292-3 Mr 21 '25

Fundamentals of electrostatic precipitation; application at the Trenton Channel station. il diags Power Pl Eng 28:755-7 Jl 15 '24

Neuere ergebnisse mit der elektrischen gasreinigung. R. Durrer. il diags Stahl & Eisen 44:809-12; Discussion. 812-14 Jl 10 '24

Principles of the Research corporation and their application to industry. A. A. Hamerschlag. Chem Age 32:323-4 Ag '24

Quantitative analysis of mists and fogs, especially acid mists. H. C. Weber. diags Ind & Eng Chem 16:1241-2 D '24

Recovery of gold at the U.S. assay office, New York by the Cottrell electrical precipitation processes. N. W. Sultzer. diags Chem Age 33:5-8 Ja '25

Removing dust from blast furnace gases. N. H. Gellert. diag Iron Age 113:422-5 F 7 '24

Report of an investigation of interference caused by a Cottrell electric precipitator. Radio Serv Bul 86:8-9 Je '24

United Verde smelter. G: J. Young. il Eng & Min J 118:100-1 Jl 19 '24

Use of Owens' jet dust counter and of electric precipitation in the determination of dusts, fumes, and smokes in the air. P. Drinker and R. M. Thompson. il diags Am Soc Heat & V E J 30:695-710 N '24

Versuche an einer elektrischen gasreinigung beim hochofenwerk Lübeck. J. Dreher. il diags Stahl & Eisen 44:873-9 Jl 24 '24

See also Electrolysis

ELECTRIC propulsion of ships. See Ship propulsion, Electric

ELECTRIC prospecting. See Prospecting—Electric method

ELECTRIC protective apparatus

Adequate protective systems. S. W. Borden. Elec W 85:673 Mr 28 '25

A.C. protective systems and gear. J. Henderson and C. W. Marshall. 108p Pitman '23

Automatic protection—balanced relays and flashover control. E. R. Stauffacher. diags Am Inst E E J 43:904-7 O '24

Balanced relay system for 220-kv. lines. E. R. Stauffacher and F. H. Mayer. diags Elec W 85:341-3, 400-2 F 14-21 '25

Betrachtungen über den hörnerableiter. F. Kesselring. diags Elektrotech Zeit 45.819-24 Jl 31 '24; Abstract (Horn-gap arrester). Elec W 84:802 O 11 '24

Card system used for protective equipment records. J Elec 54:56-7 Ja 15 '25

Design of apparatus for the protection of alternating-current circuits. A. S. FitzGerald. Inst E E J 62:561-99 Jl '24; Abstracts. Elec R (Lond) 94:395-6, 429-30 Mr 7-14 '24; Electrician 92:290+ Mr 7 '24; Engineer 137:263 Mr 7 '24; Discussion. Inst E E J 62:599-627 Jl '24; Elec R (Lond) 94:396, 430 Mr 7-14 '24; Electrician 92:291 Mr 7 '24

Design of electrical plant, control gear and connections for protection against shock, fire and faults. H. W. Clothier. bibliog diags Inst E E J 63:425-46 My '25; Abstracts. Elec R (Lond) 96:197-200, 233-5 Ja 30-F 6 '25; Electrician 94:121-2 Ja 30 '25; Discussion. Inst E E J 63:446-73, 1023-37 My, O '25

Effect and prevention of short circuits. B. G. Jamieson. diags Elec W 83:815-17 Ap 26 '24

Excess pressure dealt with by new air-gap device. il diag Electrician 94:426 Ap 10 '25

Fitting latest switchboard appliances to mine generators and converters. W. L. Newmeyer. il diag Coal Age 26:184-7 Ag 7 '24

Flash guards for 60 cycle railway converters. R. H. Newton. il Elec J 21:105-6 Mr '24

German system readopts Petersen coil. map Elec W 84:786-7 O 11 '24

H.T. protective gear. il diags Electrician 94: 206-7 F 20 '25

Live problems in connection with protection of electrical systems; report of A.I.E.E. committee on protective devices. diags Am Inst E E J 44:1226-37 N '25

Neuere erfahrungen mit dem ge-schutz. G. I. Meyer. il diags maps Elektrotech Zeit 46: 1144-50 Jl 30 '25

New corona shield for 165,000-volt line. il Elec W 82:1073 N 24 '23

Power company communication systems. H. N. Kalb. il diags J Elec 55:302-3, 338-9 O 15-N 1 '25

Protection of electrical equipment. V: H. Todd. il diags Power Pl Eng 27:1083-7; 28: 235-8, 384-7, 492-4 N 1 '23, F 15, Ap 1, My 1 '24

Protection of supply networks; some critical notes on the McColl system. W. Wilson. diags Electrician 92:624-7 My 23 '24; Discussion. H. Giesbers. 94:11 Ja 2 '25

Die sicherung der elektrischen energieversorgung. J. Biermanns. il Elektrotech Zeit 46:909-15, 954-61 Je 18-25 '25

Sind abschmelzsicherungen, kleinautomaten usw. ein schutz elektrischer anlagen? C. Nötzel. Electrotech Zeit 46:1156-7 Jl 30 '25

La surtension dans les réseaux et les appareils de protection employés. G. Courtois. diags Soc Ing Civils Bul 78:37-57 Ja '25

Survey of automatic alternating-current protective apparatus. B. Nuttall. diags Inst E E J 63:147-8 Ja '25

Überstromschutz. il Elektrotech Zeit (special no.) 45:36-7 Ag 28 '24

Use of switchboards and protective devices. il diags Power Pl Eng 29:86-90 Ja 1 '25

V D E kommission für überspannungschutz. Elektrotech Zeit 46:472-7 Mr 26 '25

See also Electric circuit breakers; Electric distribution—Grounding; Electric fuses; Electric generators—Protection; Electric lines—Bird guards; Electric motors—Protection; Electric switches; Lightning arresters; Lightning conductors; Lightning protection; Reactors; Relays; Short circuits—Calculating board

ELECTRIC pulverization of metals

Formation of colloid solutions by electrical pulverization in the high-frequency alternating current arc. E. O. Kraemer and T. Svedberg. diags Am Chem Soc J 46:1980-91 S '24

ELECTRIC radiation
Guided and radiated energy in wire transmission. J: R. Carson. Am Inst E E J 43:908-13 O '24
Radiation from transmission lines. C: Manneback. diags Am Inst E E J 42:95-105 F '23; Discussion. 42:981-2, 1362-5; 43:44 S, D '23-Ja '24

ELECTRIC railroads
A B C of the electric car. J. S. Dean. 83p Westinghouse elec. & mfg. co., East Pittsburgh, Pa. '24
Co-ordination of other forms of transportation with the electric railway. P. Shoup. Elec Ry J 64:625-8 O 11 '24
Electric railway handbook. A. S. Richey. 2d ed. 798p McGraw-Hill '24
Electric railways—do we need them? B. C. Cobb. Munic & Co Eng 67:115-22 S '24
Electric railways today. R. P. Stevens. Aera 13:813-19 D '24
Electrical railways. il Gen Elec R 28:10-14 Ja '25
Selbsttätige umformerwerke für bahnen. von Stritzl. Elektrotech Zeit 45:153-4 F 28 '24

See also Electric locomotives; Electric motors, Railway; Elevated railroads; Interurban railroads; Railroads—Electrification; Street cars; Street railroads; Subways; Third rail; Trackless trolley; *also* names of railroads, e.g. Chicago, North Shore & Milwaukee railroad; Washington-Virginia railway

Accidents

Collision at Ingalls, Ind. Ry Age 76:1096 My 3 '24; Same. Ry R 74:809 My 3 '24
Inquiry conducted into Oakland wreck. Elec Ry J 64:1091; 65:118 D 27 '24, Ja 17 '25

See also Street railroads—Accidents

Accounting

Accounting practice on the North Shore line. C. R. Mahan. Elec Ry J 63:661-2 Ap 26 '24
Correct account numbers put on jobs. il Elec Ry J 64:236-7 Ag 16 '24
Depreciation principles; A.E.R.A. files brief. Aera 12:1496-1500 Ap '24; Same cond. Elec Ry J 63:339-40 Mr 1 '24
Report of the committee on standard classification of accounts. Elec Ry J 66:700-1 O 17 '25

See also Street railroads—Accounting; *also* American electric railway accountants' association

Advertising

Advertising that travels; box cars as a background for an advertising campaign. il Elec Ry J 66:441 S 19 '25
Capitalizing on the Coffin prize. Elec Ry J 62:1087-8 D 29 '23
Chicago utilities win honorable mention at the recent exhibit of travel posters and books. il Elec Ry J 66:277-80 Ag 22 '25
Fifty reasons for traveling traction. Elec Ry J 65:66 Ja 10 '25
How London puts over its posters. A. L. Barber. il Aera 14:57-68 Ag '25
Make your catch lines snappy. L. St Clair. Aera 12:1021-4 Ja '24
Telling the people about it. Aera 13:870-3 D '24

See also Street railroads—Advertising

Automatic operation

Automatic electric trains for London post office railway. Elec Ry J 66:241-2 Ag 15 '25
Le chemin de fer continu ou "Never stop railway" de l'exposition de Wembley, près de Londres. il Génie Civil 87:291-3 O 3 '25
Corkscrew railway. il Sci Am 130:88-9 F '24
Pneumatic mail tubes and operation of automatic railroads. K. E. Stuart. il Sibley J 37: 165+ O '23
Post office tube railway. il map Engineer 138: 404 O 10 '24

Braking

Elektrische nutzbremsung für wechselstrombahnen; abstract. diags Elektrotech Zeit 45: 99 F 7 '24
Emergency braking on electric cars. D. D. Ewing. il diags Purdue U Eng Exp Sta Bul 13:1-163 '23
European progress with magnetic track brakes. J. F. S. Barth. Elec Ry J 64:855-6 N 15 '24

See also Air brakes

Cars

See Cars, Electric railroad; Cars, Subway; Street cars

Claims

See Street railroads—Claims

Construction

Die bei elektrischen bahnen angewandten mittel zur verhütung der schwachstromstörungen durch hochspannungsfahrleitungen. H. W. Schuler. diags Elektrotech Zeit 46:1361-6 S 3 '25
Beitrag zur berechnung von tragmasten für die oberleitung elektrischer hauptbahnen. W. Müller. diags Elektrotech Zeit 46:413-15 Mr 19 '25
Building high-speed line at San Diego. W. O. Anderson. il map Elec Ry J 63:919-21 Je 14 '24
Building the Waukegan cutoff on the North Shore line. il diags map Elec Ry J 64:119-22 Jl 26 '24
Center poles for narrow street. il diag plan Elec Ry J 63:847-8 My 31 '24
Changing tunnel for rapid transit. il Elec Ry J 64:39-41 Jl 12 '24
Construction details of trolley cutout. diags Eng & Min J 120:376-7 S 5 '25
Dorchester rapid transit extension. T: F. Sullivan. Boston Soc C E J 12:49-52 Ja '25
Double trolley wire on single track economical. J. H. Bowen. il Elec Ry J 66:237-8 Ag 15 '25
Eliminating poles in El Paso. il Elec Ry J 63: 499-500 Mr 29 '24
1500-volt direct-current electric railway installation of the Kobe-Himeji railway co., Kobe, Japan. M. Takagi. il map Gen Elec R 27:536-8 Ag '24
I.C. electrification uses catenary system. il diag Elec Ry J 66:357-60 S 5 '25
Indianapolis & Cincinnati traction co. G. M. Woods. il diag Elec J 21:464-7 O '24
Line construction. H. M. Gould. Elec Ry J 64:491-2 S 27 '24
Making and erecting concrete poles. L. R. Brown. il diags Elec Ry J 64:159-61 Ag 2 '24
New catenary construction on the Canadian National. E. B. Walker. il Ry Age 78:1099-1101 My 2 '25; Same abr. Eng & Contr (G C) 63:1105-8 My 20 '25
North Shore adopts catenary suspension. il Elec Ry J 64:53-4 Jl 12 '24
North Shore line building important extension. il Aera 14:755-61 N '25
North Shore line completes $3,000,000 extension. il Elec Ry J 65:583-6 Ap 11 '25
North Shore line meets emergency. Elec Ry J 66:52 Jl 11 '25
Overhead catenary material tested. il Elec Ry J 65:810-11 My 23 '25
Overhead construction in Europe. il Elec Ry J 64:441-2 S 20 '24
Overhead line notes from Detroit. il Elec Ry J 61:845-6; 62:411; 64:87-9 My 19, S 15 '23, Jl 19 '24
Railway builds concrete trolley poles in a modern plant. W. W. Wysor. il diag Elec Ry J 65:691-3 My 2 '25
Report of A.E.R.E.A. committees on power transmission and distribution, power generation and conversion and codification of power failures. Elec Ry J 66:629-31 O 10 '25
Report of the A.E.R.E.A. power transmission and distribution committee. diags Elec Ry J 64:647-9 O 11 '24
Special overhead during grade elimination. J. Scott. il Elec Ry J 65:880 Je 6 '25
Steam line in Texas electrified to furnish interurban service. B. F. Cooke. il map Elec Ry J 65:647-52 Ap 25 '25; Same abr. Gen Elec R 28:237-42 Ap '25

ELECTRIC railroads—Construction—*Continued*
Supporting trolley wire without poles. diags Elec Ry J 63:842-3 My 31 '24
Trolley arrangement of bascule bridge. C. L. Greer. diags Elec Ry J 65:139-40 Ja 24 '25

See also Bridges, Electric railroad; Electric railroads—Track; Railroads—Electrification

Contact shoes

Warning signal for contact plows out of gage. W. B. Uffert. il diag Elec Ry J 66:729-30 O 24 '25

Contact system

Contact system for Virginian electrification. C. L. Hancock. il Ry Age 77:597-8 O 4 '24
Overhead contact permits passage of cars. diag Elec Ry J 63:968 Je 21 '24

Control

La traction électrique des trains à plusieurs unités motrices, avec intercommunication en marche, sans circuit de contrôle. A. Levergnier. diags Génie Civil 86:558-60 Je 6 '25

Control jumpers

Testing control jumpers. il Elec Ry J 64:778 N 1 '24

Current collecting devices

See Electric railroads—Trolley shoes; Electric railroads—Trolley wheels; Third rail

Development work

Interstate public service co. of Indiana creates ten tons of freight for each trolley fare. O. D. Foster. il Forbes 16:22-4 Ap 15 '25

Employees

Capital line insures employees. Elec Ry J 65:883-4 Je 6 '25
Electric railway employees—Morristown, N.J. Monthly Labor R 21:552-3 S '25

See also Street railroads—Employees

Equipment and supplies

Accurate records on the life of parts. J: S. Dean. Elec J 22:500-1 O '25
Automatic sub-station for the Hendon-Edgware extension railway. il Engineering 118: 227-8, 230 Ag 15 '24; Same cond. Engineer 138:216-18 Ag 22 '24; Same cond. Elec R (Lond) 95:280-2 Ag 22 '24; Same. Electrician 93:203-4 Ag 22 '24
Begging sales opportunities in the electric railway field. C. W. Hamilton. il Sales Management 8:23-4+ Ja 10 '25
Deutsche verkehrs-ausstellung München 1925. D. Przygode. il diags Elektrotech Zeit 46: 1481-7 S 24 '25
How the Indianapolis & Cincinnati line was rehabilitated. il diag map Elec Ry J 64:113-17, 163-6, 203-6 Jl 26-Ag 9 '24
How the manufacturer is helping the electric railway. E. P. Waller. Elec Ry J 63:1022-3 Je 28 '24
Maintaining electrical equipment. H: Cordell. Elec Ry J 64:320-1 Ag 30 '24
Manufacturer's contribution to the electric railway. J: G. Barry. Elec Ry J 65:293-4 F 21 '25
Million and three-quarter dollars represented in this year's exhibits. C. W. Squier. il Elec Ry J 66:704-7 O 17 '25
Report of the A.E.R.E.A. committee on equipment. Elec Ry J 64:640-1 O 11 '24
Report of the A.E.R.E.A. committee on equipment. diags Elec Ry J 66:632-4 O 10 '25

See also Cars, Electric railroad; Electric motors, Railway; Electric protective apparatus; Electric railroads—Control jumpers; Electric railroads—Power; Electric railroads—Scrap material; Electric railroads—Shops; Street cars

Fare collection

See Change-making machines; Street railroads—Fare collection; Turnstiles, Fare collecting

Fares

See Street railroads—Fares

Finance

Course of electric railway earnings in 1923. Comm & Fin Chr 118:3129-33 Je 28 '24
Course of electric railway earnings in 1924. Comm & Fin Chr 121:251-6 Jl 18 '25; Excerpts. Elec Ry J 66:182-3 Ag 1 '25
Electric railway companies. Moody's Inv Serv 16:361-4 S 25 '24
Electric railway financing. H. M. Addinsell. Elec Ry J 64:498-500 S 27 '24
Electric railway industry prospers. Elec Ry J 64:125-7 Jl 26 '24
Electric railway outlook. Moody's Inv Serv 17: 78 Mr 5 '25
Electric railway results in 1924. E. J. Murphy. Aera 13:1611-26 My '25; Same cond. Elec Ry J 65:709-12 My 2 '25
Electric railway revival. B. C. Cobb. Pub Serv Management 36:123-5 Ap '24
Electric railways broke all records in 1923. E. J. Murphy. Aera 12:1647-62 My '24; Excerpts. Elec Ry J 63:715-18 My 3 '24
Fortunes will again be made in the tractions. R. W. Babson. Forbes 15:89-90 O 15 '24
From the economist's viewpoint. R: T. Ely. Aera 12:1559-68 Ap '24
Gross and net earnings. Published in weekly numbers of Commercial and financial chronicle
Gross revenue of electric railways is higher than in 1917. Elec Ry J 62:823-4 N 10 '23
Increase in business on North Shore line in 1924. Elec Ry J 65:673-4 Ap 25 '25
$940,000 improvement by Public service railway. Elec Ry J 65:596-8 Ap 11 '25
Public utility compendium of the Commercial & financial chronicle [formerly Electric railway section]. Comm & Fin Chr 119:1-180 sec 2 N 1 '24 [issued twice a year on the first Saturday in May and November]
$686,864 net income reported for 1923 by Chicago-Milwaukee line. Elec Ry J 63:431 Mr 15 '24
Special master's findings questioned in Denver case. Elec Ry J 64:406-8 S 13 '24
Utility has right to earn profit. G: D. Watrous. Aera 12:1511-15 Ap '24

See also Electric railroads—Accounting; Electric railroads—Securities; Electric utilities—Finance; Street railroads—Finance; *also* Boston Elevated railway

Fires and fire protection

New regulations for wiring and car house construction; text. G. C. Hecker. Aera 13: 2025-36 Jl '25

Forms, blanks, etc.

Standard forms for shop reports. Elec Ry J 65:454-6 Mr 21 '25

Franchises

See Street railroads—Franchises

Freight

Container system as an aid to railway revenues. A. C. Spurr. il Aera 13:1643-50 My '25
Freight business improves North Carolina interurban's operating ratio. il Elec Ry J 66: 551-3 O 3 '25
Freight-carrying road held to be under section 15a. Aera 13:1380-3 Mr '25
Freight service. T. H. Stoffel. il Elec Ry J 64:505-8 S 27 '24
Handling freight on Aroostook Valley line. il Elec Ry J 65:1007-8 Je 27 '25
Handling freight on electric railways. W. A. Clough. Elec Ry J 63:147 Ja 26 '24
Illuminated map of freight lines pulls business. il Aera 13:1690-2 My '25
Indianapolis has largest electric railway freight terminal in world. il diags plan Elec Ry J 64:153-6 Ag 2 '24
Indianapolis, the nation's great electric freight center. J. W. Colton. il Aera 13:581-95 N '24
Interline freight traffic development. il map Elec Ry J 65:846 My 30 '25

ELECTRIC railroads—Freight—*Continued*
Interstate public service co. of Indiana creates ten tons of freight for each trolley fare. O. D. Foster. il Forbes 16:22-4 Ap 15 '25
Interurban freight business. L. M. Brown. Aera 13:58-62 Ag '24; Same cond. Elec Ry J 64:129-31 Jl 26 '24
Interurban freight traffic—its source and development. F. W. Brown. Elec Ry J 65: 147-8 Ja 24 '25
Interurbans making progress in freight haulage. T. H. Stoffel. il Elec Ry J 62:1018 D 15 '23
Kaw Valley line is working out extensive freight facilities. il map Elec Ry J 63:839-41 My 31 '24
Large electrified map attracts shippers. il Elec Ry J 65:929 Je 13 '25
Latest developments in interurban freight. T. H. Stoffel. Elec Ry J 66:652-3 O 10 '25
Piedmont and Northern railway system. H. C. Hickock. il map Elec J 22:485-9 O '25
P-O builds new freight terminal at Youngstown, O. R. M. Graham. il map Elec Ry J 65:223-4 F 7 '25
Progress in interurban freight in 1923. T. H. Stoffel. il plan Elec Ry J 63:295-7 F 23 '24
Progress of freight haulage by electrics. T. H. Stoffel. Elec Ry J 64:958-9 D 6 '24
Trolley and truck; how the Detroit United railway is coordinating motor truck and electric railway freight service. A. D. B. Van Zandt. Aera 12:905-10 Ja '24
Trucks used by railway for local freight haulage. F. W. Watts. il Elec Ry J 64:771 N 1 '24
When is a railway engaged in the general transportation of freight? Aera 12:1479-84 Ap '24

See also Electric railroads—Rates

History

Applications of electricity to the lighter forms of transport. W. Nairn. Inst E E J 63:9-12 D '24
Tabloid history of the electric railway. F. J. Sprague. il Elec W 84:576-8 S 20 '24

Inspection

See Car inspection; Street railroads—Inspection

Maintenance and repair

Car inspection and testing in Berlin. E. Kindler. Elec Ry J 63:103-5 Ja 19 '24
Keeping down line maintenance costs on a small interurban. il Elec Ry J 65:458-60 Mr 21 '25
Line practices on Pittsburgh railways. H. A. Pharo. il Elec Ry J 63:469-72 Mr 22 '24
Maintenance from the manufacturers' side. H. H. Wentworth. Aera 13:1569-71; Discussion. 1571-3 Ap '25
Maintenance practices on the New York State railways. il Elec Ry J 65:703-4 My 2 '25
Overhead line notes from Detroit. il Elec Ry J 61:845-6; 64:87-9 My 19 '23, Jl 19 '24
Papers describing maintenance practices of New York rapid transit lines presented at Metropolitan section of the A.E.R.A. Elec Ry J 65:418-19 Mr 14 '25
Proper maintenance. J. T. Hamilton. Aera 13: 1563-6; Discussion. 1566-9 Ap '25
Systematic records reduce line failures. J. F. Neild. Elec Ry J 65:763-5 My 16 '25
Voiture de réparations des lignes de trolley, roulant sur rails ou sur route. diags Génie Civil 86:365 Ap 11 '25

See also Electric railroads—Equipment and supplies; Electric railroads—Shops; Electric railroads—Track; Street railroads—Track

Management

Brief that won the 1924 Charles A. Coffin prize. il Elec Ry J 64:673-82 O 18 '24; Same. Aera 13:609-49 N '24
Electric railway practices in 1923. H: H. Norris, ed. 221p American electric railway assn., 8 W. 40th st., New York '24
Electric railway transportation. H: W. Blake and W. Jackson. 2d ed. 437p McGraw-Hill '24

Motor vehicle competition

West Virginia decision enjoins taxi men from soliciting business along railway route between Princeton and Bluefield. Elec Ry J 65:861-2 My 30 '25

Power

Automatic feeder control prevents service interruptions. M. E. Reagan. il diag Elec Ry J 62:935-7 D 1 '23
Automatic substation equipment for South African railways. W. D. Bearce. il map Gen Elec R 28:713-19 O '25
Automatic substations for city service. S. D. Bale. Elec Ry J 65:931-2 Je 13 '25
Automatic substations in railway service. C. E. Baker. il Gen Elec R 28:431-5 Je '25
Automatic substations of the Oregon electric railway. E. R. Cunningham and G: N. Barker. il map Gen Elec R 28:422-5 Je '25
Automatic substations on the Chicago, Aurora & Elgin railroad. S. E. Johnson. il Gen Elec R 28:429-30 Je '25
Automatic substations on the Chicago, North Shore & Milwaukee railroad. C: H. Jones. il map Gen Elec R 28:426-8 Je '25
Automatic substations on the Melbourne suburban railway system, Australia. R. M. Harvey. il diag map plan Gen Elec R 28: 491-8 Jl '25
Changeover of Cleveland southwestern railway and light company to automatic substations. G. H. Kelsay and H. W. Stiner. il map Gen Elec R 28:436-9 Je '25
Clearing trouble on underground feeder sections. Elec Ry J 65:67 Ja 10 '25
Coal consumption cut a third in three years. Elec Ry J 62:1054-5 D 22 '23
Current-checking means for cars, carhouses and shops. W. Pforr. Elec Ry J 64:776 N 1 '24; Discussion. L. E. Gould. 64:995 D 13 '24
Denver tramway modernizing the power plant. il diags Elec Ry J 64:757-60 N 1 '24
Developments in substation practice in San Francisco. J. E. Woodbridge. il plan Elec Ry J 65:573-6 Ap 11 '25
Different trolley voltages over the same track. il Elec Ry J 63:943 Je 14 '24
Electrification of the Chilean State railways. D: C. Hershberger. il maps Ry R 76:722-8 Ap 18 '25; Excerpts. Aera 13:1670-7 My '25
Energy consumption of interurban cars. Elec Ry J 63:171-3 F 2 '24
Energy costs reduced by auxiliary steam plants. Elec Ry J 63:290 F 23 '24
Energy saving reduces maintenance costs in St Louis. A. M. Brinkman. Elec Ry J 66: 87-90 Jl 18 '25
Holyoke contracts for power. G: E. Pellissier. maps Elec Ry J 65:541-3 Ap 4 '25
How the Indianapolis & Cincinnati line was rehabilitated. il diag map Elec Ry J 64:113-17, 203-6 Jl 26-Ag 2 '24
Important power plants of the Swiss federal railroads. il Ry R 76:569-71 Mr 21 '25
Improved ventilating features in Los Angeles automatic substations. L. J. Turley. il diags Elec Ry J 66:153-7 Ag 1 '25
Improving voltage with a booster. A. L. Davis. diag Elec Ry J 63:852-3 My 31 '24
Interested men save power. J. M. Putnam. Aera 12:798-800 D '23
Meter practice followed on the Sacramento Northern. W. H. Evans. Elec Ry J 63:60 Ja 12 '24
Operating improvements at Providence. W. C. Slade. Elec Ry J 65:511-13 Mr 28 '25
Parallel transmission lines insure continuity of power supply. Elec Ry J 65:652 Ap 25 '25
Piedmont and Northern railway system. H. C. Hickock. il map Elec J 22:485-9 O '25
Power facilities. C: H. Jones. il Elec Ry J 64: 493-7 S 27 '24
Power-saving chart stimulates interest. Elec Ry J 65:408 Mr 14 '25
Power saving on London underground. Elec Ry J 66:238 Ag 15 '25

ELECTRIC railroads—Power—*Continued*
Power supply facilities for Illinois Central railroad electrification. diag map Elec Ry J 66:269-72 Ag 22 '25
Power supply for the Chilean State railway electrification. il map Engineering 119:512, 517 Ap 24 '25
Report of A.E.R.E.A. committees on power transmission and distribution, power generation and conversion and codification of power failures. Elec Ry J 66:629-31 O 10 '25
Report of the A.E.R.E.A. committee on power generation and conversion. Elec Ry J 64: 643-7 O 11 '24
Report of the A.E.R.E.A. power transmission and distribution committee. diags Elec Ry J 64:647-9 O 11 '24
Saving to street railway by purchasing power. Elec W 83:681-2 Ap 5 '24
Staten Island rapid transit company's power supply. C. A. Butcher. il map Aera 14: 258-70 S '25; Same cond. Elec Ry J 66:53-6 Jl 11 '25; Same cond. Ry R 77:51-6 Jl 11 '25
Superpower and the railways. E. H. Sniffin. Elec Ry J 65:112-13 Ja 17 '25
Supervisory controlled substation on Chicago Elevated. D. L. Smith. il diag Elec Ry J 64: 795-8 N 8 '24
Utilization of water power for electric railway operation; report of A.R.E.A. subcommittee. Ry R 76:624-6 Mr 28 '25

See also Electric distribution; Electric substations; Railroads—Electrification

Public relations

The public be served! J. N. Shannahan. Aera 13:777-83 D '24

See also Street railroads—Public relations

Purchasing

$342,000,000 of purchases planned in 1925. Elec Ry J 65:4 Ja 3 '25

Rates

Commission report on section 15a; status of electric railway companies will be determined upon the facts in individual cases. Aera 12:1920-2 Je '24
Interstate commission controls rates of interstate interurbans. Elec Ry J 65:73 Ja 10 '25

Records

Accurate records on the life of parts. J: S. Dean. Elec J 22:500-1 O '25

Rolling stock

Electric rolling stock on Swiss railways. diags (supp) Engineer 137:634 Je 6 '24

See also Cars, Electric railroad; Street cars

Safety devices and measures

Automatic barriers protect highway crossing. plan Elec Ry J 65:543-4 Ap 4 '25
Boston completes accident prevention campaign. Elec Ry J 65:540 Ap 4 '25
Grade crossing in an electric railway's safety program. A. W. Koehler. Nat Safety N 11: 9-10 My '25

Scrap material

Reclaiming rail bonds in Brooklyn. G. H. McKelway. Elec Ry J 63:974 Je 21 '24
Reclamation storeroom accomplishes a big saving. Elec Ry J 62:1004 D 15 '23

Securities

Chicago rapid transit company selling $5,000,000 prior preferred stock to employes and passengers. Aera 12:2085-6 Jl '24; Elec Ry J 63:951 Je 14 '24
Electric railways securities. Moody's Inv Serv 16:180, 287 My 1, Jl 24 '24
Good future for traction securities. Pub Serv Management 37:124-5 O '24
New England traction problems. Moody's Inv Serv 16:400 O 30 '24
Opportunities for investors; group of New York traction bonds. R. V. Sykes. Forbes 14:180-1 My 10 '24
Railways selling securities to car riders and employes. K. L. McKee. Aera 13:825-34 D '24
Soundness of traction securities. F. R. Coates. Aera 13:142-7 S '24; Same cond. Elec Ry J 64:209 Ag 9 '24
10,000 employee-owners in the Brooklyn-Manhattan transit company. Elec Ry J 66: 144 Jl 25 '25

See also Street railroads—Securities

Shops

Acton car repair shops of the London underground railways. il diags Engineering 117: 195-202, 208, 229-34, 240, pl 10-13 F 15-22 '24; Abstracts. Elec R (Lond) 94:379-83 Mr 7 '24; Electrician 92:192-4 F 15 '24; Engineer 137: 172-4, 176 F 15 '24
Les ateliers de réparations du matériel roulant des London underground railways, à Acton. il diags plans Génie Civil 84:441-5 My 10 '24
Board shows progress of car overhauling. il Elec Ry J 62:1013 D 15 '23
Boston Elevated occupies new shops. Elec Ry J 63:248 F 16 '24
Carhouse converted into a shop. il plan Elec Ry J 65:456-7 Mr 21 '25
Central location for storeroom found advantageous. il Elec Ry J 66:10 Jl 4 '25
Combined shop and carhouse for small property. il diag plan Elec Ry J 63:207-9 F 9 '24
Comprehensive shop welding program makes big savings. il diag Elec Ry J 63:617-18 Ap 19 '24
Compressor room under repair shop. il Elec Ry J 66:25-6 Jl 4 '25
Detroit enlarges shops. il diags Elec Ry J 64: 6-8 Jl 5 '24
Electric railway equipment maintenance and shop practice. L. J. Davis. Elec Ry J 66: 19-20 Jl 4 '25
Equipment maintenance. F. M. Brinckerhoff. il Elec Ry J 64:509-14 S 27 '24
Everett shops of Boston L pave way to maintenance economies. il diags plans Elec Ry J 64:871-4, 1065-71; 65:173-8, 499-503 N 22, D 27 '24, Ja 31, Mr 28 '25
Handling wheel and axle work on the Brooklyn-Manhattan railways. F. H. Colvin. il Am Mach 61:753-5 N 13 '24
Interborough rapid transit co., New York, to have enlarged shops. plan Elec Ry J 63: 688-9 My 3 '24
Keeping subway trains on schedule. F. H. Colvin. il Am Mach 60:491-3, 587-9 Ap 3, 17 '24
Maintenance department orders give uniform practice. R. W. Bailey. Elec Ry J 66:731-2 O 24 '25
Maintenance methods on the Interborough. il Elec Ry J 65:440-9 Mr 21 '25
Methods in a rapid transit shop. F. H. Colvin. il Am Mach 61:889-90 D 4 '24
Modern inspection facilities of the Interborough system. il diags plans Elec Ry J 64:305-8 Ag 30 '24
Modern planning system in Detroit shops. G. L. Ohmart. il chart Elec Ry J 64:915-17 N 29 '24
Modernizing platform controllers. il Elec Ry J 65:609-12 Ap 18 '25
Money wasted by poor tools and inefficient methods. H: S. Day. Aera 12:1733-5 My '24
New Canadian railway shops completed. diags plans Elec Ry J 66:242-3 Ag 15 '25
Quantity production of renewal parts. H. R. Meyer. Elec Ry J 64:1047-8 D 20 '24
Repair shops at Bathurst st., Toronto. il plan Can Eng 46:101-4 Ja 1 '24
Repair shops keep busy. Elec Ry J 65:258 F 14 '25
Repairs to car bodies principal expense item in railway shops. Elec Ry J 62:1004 D 15 '23
Shop and storage for Eighth avenue road. il plans Elec Ry J 63:849-52 My 31 '24
Special wheel shop in Dayton. il Elec Ry J 65:625 Ap 18 '25
Standard forms for shop reports. Elec Ry J 65:454-6 Mr 21 '25
Toronto shop has 5 acres under one roof. il plan Elec Ry J 63:890-6 Je 7 '24

ELECTRIC railroads—Shops—*Continued*
Toronto's new shop and material yard. il plan Elec Ry J 63:801-4 My 24 '24
Truck overhauling made a continuous performance. il diags Elec Ry J 65:959-66 Je 20 '25
Welding shops and electric rolling stock discussed by A. R. A. Elec Ry J 63:988-90 Je 21 '24
What makes the wheels go 'round; shop practices of the Chicago, North Shore & Milwaukee. H. Cordell. il Aera 12:1696-1701 My '24
See also Transfer tables

Equipment
Electric furnace a time saver in railway shop. il Elec Ry J 66:249 Ag 15 '25
Fire and watchman's signal system in Torrance shops. Elec Ry J 65:966 Je 20 '25
40% of all machine tools are over 20 years old. Elec Ry J 63:441-3 Mr 22 '24; Same. Am Mach 60:513-15 Ap 3 '24
How modern machine tools cut costs. il Elec Ry J 63:444-54 Mr 22 '24
Individual motor mounting improves shop drives. il Elec Ry J 62:858-9 N 17 '23
Jigs and dies to reduce shop costs. C: Gordon. il Elec Ry J 64:1023-7 D 20 '24; Same. Am Mach 62:55-8 Ja 8 '25
Lift facilitates compressor removal. il Elec Ry J 64:62 Jl 12 '24
Monorail facilitates handling of shop parts. il Elec Ry J 66:62 Jl 11 '25
Overhead rail for handling armatures. J. G. Jeffery. il Elec Ry J 64:892 N 22 '24
Sandblasting proves an economical method of cleaning. il diag Elec Ry J 66:81-5 Jl 18 '25
Traveling carrier for rivet squeezer. il Elec Ry J 64:563 O 4 '24

Lighting
Wiring and fire protection at Everett. il diags Elec Ry J 65:499-503 Mr 28 '25

Signals
Automatic lamp control saves power. il Elec Ry J 64:815 N 8 '24
Chattanooga signal record still improving. Elec Ry J 63:342 Mr 1 '24
Duplicate signal protects blind curve. il Elec Ry J 64:807 N 8 '24
Fog repeaters signal London underground trains. il Elec Ry J 64:447 S 20 '24
Improvements in signal light system. il Elec Ry J 64:1085-6 D 27 '24
Permissive signals at junctions. il plan Elec Ry J 65:850 My 30 '25
Portland signal failures decrease. H. J. Charters. Elec Ry J 65:268 F 14 '25
Power signalling; a speedy Underground railway installation. Electrician 94:639 My 29 '25
Regulating 2,200 train movements a day on the Southern Pacific railroad. il Elec Ry J 66:195-6 Ag 8 '25
Safety signal arm used in Sweden. diag Elec Ry J 66:828 N 7 '25
Saving lives at crossings. G. H. Shaw. il Aera 13:383-4 O '24
Selbsttätige zugsicherungsanlagen mit wechselstrom unter besonderer berücksichtigung der anlagen der Hamburger hochbahn. C. Wolff. il diags Zeit Ver Deutsch Ing 68:970-5 S 13 '24
Signal failures in Chattanooga still decreasing. Elec Ry J 65:774 My 16 '25
Signal for special locations. H. J. Charters. il diag plan Elec Ry J 63:615-16 Ap 19 '24
Signals reduce operating expenses. Elec Ry J 63:585 Ap 12 '24
Spacing signals used on steep grades. il diag Elec Ry J 66:86 Jl 18 '25
Track circuit signaling by direct current. diag Elec Ry J 66:174 Ag 1 '25
Weather is primary cause of signal failures. H. J. Charters. Elec Ry J 63:588-9 Ap 12 '24

Standards
1924 standards; summary of official action taken on the recommendations of the committees of the American electric railway engineering association during the association year 1924. Aera 13:901-2 D '24

Statistics
Electric railway construction in 1923. Eng & Contr (Ry) 61:151 Ja 16 '24
Electric railway traffic and average fares. Survey of Cur Business 43:28 Mr '25
Electric railways broke all records in 1923. E. J. Murphy. Aera 12:1647-62 My '24; Excerpts. Elec Ry J 63:715-18 My 3 '24
Operations of twelve large properties compared. Elec Ry J 65:855 My 30 '25
Statistics on twelve large properties. Elec Ry J 62:891-2; 64:5 N 24 '23, Jl 5 '24

Substations
See Electric substations

Tables, calculations, etc.
Die anwendung nomographischer methoden beim entwurf elektrischer bahnen. von Stritzl. Elektrotech Zeit 46:109-13 Ja 22 '25

Terminals
Indianapolis has largest electric railway freight terminal in world. il diags plan Elec Ry J 64:153-6 Ag 2 '24; Excerpt (plan). Eng & Contr (Ry) 61:850 Ap 16 '24
Interurban passengers transfer to buses at outlying terminals in Detroit. il plans Elec Ry J 65:685-8 My 2 '25
Oklahoma City enlarges passenger station. il plan Elec Ry J 64:912-14 N 29 '24
P.O. lines' new freight terminal. C: J. Collins. il map Aera 13:977-81 Ja '25
Railways build joint terminal in Sacramento. plan Elec Ry J 64:356 S 6 '24; Same. Eng & Contr (Ry) 62:836-7 O 15 '24
Sub-surface terminal for Los Angeles. il Elec Ry J 65:179-80 Ja 31 '25
Unusual terminal layout facilitates passenger movement; interurban station at Salt Lake City, Utah. il diag plan Elec Ry J 63:175-6 F 2 '24

Testing
Electric traction exhibit held at Erie, Pa. il Ry Age 76:1267-9 My 24 '24; Elec Ry J 63: 812 My 24 '24

Track
Interurban railway puts way maintenance on a competitive basis. D. H. Walker. il map Elec Ry J 65:461-2 Mr 21 '25
Maintenance repairs by welding. J. F. Lincoln. il Elec Ry J 65:101-2 Ja 17 '25
New junctions at the Mornington-crescent tube station. plan Engineer 137:200 F 22 '24
Stray earth currents increased by salt. C: F. Meyerherm. il diag Elec Ry J 65:881-3 Je 6 '25
Track work on the Staten Island electrification. W. P. Bovard. il diags Ry R 76:830-1 My 2 '25
See also Rails; Street railroads—Curves and turnouts; Street railroads—Track

Traffic
See Street railroads—Traffic

Train dispatching
Dispatching methods for single-track interurban operation. Elec Ry J 65:736; 66:787, 868 My 9, O 31, N 14 '25
Regulating 2,200 train movements a day on the Southern Pacific railroad. il Elec Ry J 66:195-6 Ag 8 '25

Trains
See Cars, Electric railroad—Articulated cars; Street railroads—Trains

Trolley bases
Trolley base with roller bearings. il Elec Ry J 65:269-70 F 14 '25

Trolley harps
Light-weight harp. diags Elec Ry J 64:736-7 O 25 '24

ELECTRIC railroads—*Continued*

Trolley shoes

Current-collecting devices. L. E. Delf and G. F. Tongue. Elec Ry J 65:779-80 My 16 '25

Overcoming current-collection troubles on steel wire; greasing the wire. H. M. Robinson. il Elec Ry J 63:767-9 My 17 '24

Trolley wheels

Chuck for machining trolley wheels. diags Elec Ry J 64:1006-7 D 13 '24

Combination trolley shoe and wheel. diag Elec Ry J 64:92 Jl 19 '24

Current-collecting devices. L. E. Delf and G. F. Tongue. Elec Ry J 65:779-80 My 16 '25

Increasing trolley wheel mileage. Elec Ry J 62:1060 D 22 '23

Increasing trolley wheel mileage in Detroit. A. C. Colby. Elec Ry J 64:397-8 S 13 '24

Wiring

Neuere vorschläge für die isolierung von vollbahn-oberleitungen. E. Altmann. il diags Elektrotech Zeit 45:1022-4 S 25 '24

New regulations for wiring and car house construction; text. G. C. Hecker. Aera 13: 2025-36 Jl '25

Principles of three-wire distribution for electric railways. W. N. Smith. diags Sibley J 37:103-9, 131-5 My-Je '23

Report of the A.E.R.E.A. special committee on car and carhouse wiring. Elec Ry J 66: 627-8 O 10 '25

Yards

Convenient track and line material yard. il plan Elec Ry J 66:241 Ag 15 '25

Shop and storage for Eighth avenue road. il plans Elec Ry J 63:849-52 My 31 '24

Track layout that facilitates inspection. plan Elec Ry J 63:589 Ap 12 '24

British Columbia

British Columbia electric railway company, limited, 28th general meeting, London. Economist 99:1023-4 D 20 '24

California

Street platting and railroad right of way. D. W. Pontius. diags Eng & Contr (Ry) 61: 1116-19 My 21 '24; Same abr. Aera 12:1195-6 F '24

Canada

Public utility compendium of the Commercial & financial chronicle [formerly Electric railway section]. Comm & Fin Chr 119:182-7 sec 2 N 1 '24 [issued twice a year on the first Saturday in May and November]

Germany

Gegenwärtiger stand der elektrischen bahnbetriebe. W. Usbeck. il diags map Zeit Ver Deutsch Ing 68:943-9 S 13 '24

Italy

Electric railways in Italy. il Elec R (Lond) 93:964-7 D 28 '23

Proposed extensions in province of Milan. Elec Ry J 62:834 N 10 '23

See also Centovalli railway

Japan

Japan's electric railways. Electrician 93:528 N 7 '24

Railways of the Japanese empire. S. T. Dodd. map Gen Elec R 27:235-7 Ap '24

Massachusetts

Dismantling of Northern Massachusetts and Connecticut Valley systems likely. Elec Ry J 62:835 N 10 '23

See also Boston Elevated railway

New Jersey

See also Public service railway of New Jersey

Switzerland

See also Centovalli railway

Texas

Crimson limited gives attractive interurban service in Texas. il Elec Ry J 65:1015-16 Je 27 '25

$2,500,000 Texas road under way. Elec Ry J 66:411-12 S 12 '25

United States

Annual statistical number of the Electric railway journal. Elec Ry J 65:1-48 Ja 3 '25

Bringing back prosperity to the electric railway lines. L. S. Storrs. Elec Ry J 65:933-5 Je 13 '25

Census of electrical industries: 1922; electric railways. 256p U.S. Bureau of the census, Washington '25

Public utility compendium of the Commercial & financial chronicle [formerly Electric railway section]. Comm & Fin Chr 119:1-180 sec 2 N 1 '24 [issued twice a year on the first Saturday in May and November]

Tractions need co-operation of public, says Shannahan. S. D. Ormand. Forbes 15:81-2+ O 15 '24

Year, 1923, in heavy traction. Elec Ry J 63: 20-1 Ja 5 '24

See also Railroads—Electrification—United States; Street railroads—United States

ELECTRIC railroads, Industrial

See Electric locomotives, Industrial

ELECTRIC railway journal (periodical)

Forty years of Electric railway journal. il Elec Ry J 64:947-54 D 6 '24

ELECTRIC ranges. See Electric cooking; Electric stoves

ELECTRIC rates

Accountant's relation to rate cases. H. M. Brundage. N E L A Bul 12:499-504 Ag '25

Alignment charts for tariffs. R. O. Kapp. Elec R (Lond) 96:229-30 F 6 '25

Boston rate readjustment. Elec W 83:59 Ja 5 '24

Charges for electricity. T: Carter. Elec R (Lond) 96:965-7, 1029-31 Je 19-26 '25

Company that helped a city to come into its own. J. Heywood. Forbes 15:689-91+ Mr 1 '25

Cost of electric power and central station power rates. J: D. Noyes. Refrig Eng 11:14-17+ Jl '24

Cost of electric service compared with cost of living. Elec W 85:675 Mr 28 '25

Determining demand charge. W. J. Greene. Elec W 86:947 N 7 '25

Economic aspects of power-factor correction. A. S. Knight. Elec W 85:662-3 Mr 28 '25

Einfluss des leistungsfaktors auf die tarifbildung von elektrizitätswerken. R. Rolland. Elektrotech Zeit 46:289-93 F 26 '25

Electrical froth problem; interview with Arthur Wright of England. Elec W 85:141-2 Ja 17 '25

Electricity supply tariffs. H. M. Sayers. diag Inst E E J 63:850-6 S '25; Abstracts. Elec R (Lond) 96:637 Ap 17 '25; Electrician 94: 427 Ap 10 '25; Discussion. Inst E E J 63: 856-63 S '25; Elec R (Lond) 96:638-9 Ap 17 '25; Electrician 94:429, 459 Ap 10-17 '25

Electricity supply tariffs: their simplification by discrimination. G. Wilkinson and R. Mc Court. diags Inst E E J 63:845-9 S '25; Same cond. Elec R (Lond) 96:637-8 Ap 17 '25; Same cond. Electrician 94:428 Ap 10 '25; Discussion. Inst E E J 63:856-63 S '25; Elec R (Lond) 96:638-9 Ap 17 '25; Electrician 94:429 Ap 10 '25

Evolution of rate making. A. Dow. Elec W 84:629-31 S 20 '24

Experience with power-factor clauses. Elec W 82:1105-9 D 1 '23

Grundsätze für die gestaltung von gross- und kleinabnehmer-strompreisen. G. Siegel. Elektrotech Zeit 45:399-403 Ap 24 '24

Improvement of power factor by a kva. rate. F. C. Taylor. il Elec W 84:800-1 O 11 '24

Ein kleinabnehmertarif. A. Korff. Elektrotech Zeit 46:259-61 F 19 '25

ELECTRIC rates—*Continued*
Making equitable rates for electric service. W. J. Greene and A. E. Holloway. Munic Eng 66:97-100 F '24
Method of calculating rural extensions. C: H. Churchill, jr. il Elec W 85:556-8 Mr 14 '25
Der neue tarif der Berliner städtischen elektrizitätswerke und seine weiterbildung. B. Thierbach. Elektrotech Zeit 45:558-9 My 29 '24
Note on rates for rural electric service. M. L. Cooke. Ann Am Acad 118:52-9 Mr '25
Power-factor correction. L. W. W. Morrow. Am Inst E E J 44:150-6 F '25; Excerpts. Power 61:435 Mr 17 '25
Power-factor rate clauses. R. R. Herrmann. Elec W 84:1357-9 D 27 '24; Discussion. 85: 253, 615 Ja 31, Mr 21 '25
Power factor tariffs. E. W. Dorey. Electrician 92:534-6, 564-6 My 2-9 '24
Power rates to encourage industrial heating application. W. S. Scott. Elec W 84:373 Ag 23 '24
Power supply to the Rand. Otley. Engineer 138:475 O 24 '24
Public and private rates. Elec W 84:1374 D 27 '24
Rate reduction ordered in Boston. Elec W 86:283-4 Ag 8 '25
Rate reduction receives praise from press. Elec W 82:1331 D 29 '23
Refrigeration and electric power supply. L. R. Morshead and W. M. Selvey. Elec R (Lond) 95:193-4 Ag 1 '24
Relation of wholesale manufacturing costs to retail price. D. C. Jackson. Elec W 83: 1048-9 My 24 '24
Report of rate research committee of N.E.L. A. Elec W 85:1329-30 Je 20 '25
Retail prices of electricity in the United States. Monthly Labor R 15:382-5, 1002-7; 16:320-3, 955-61; 17:367-72, 1051-5; 18:279-83, 990-4; 19:334-8, 1029-33; 20:273-8; 21:289-93 Ag, N '22, F, My, Ag, N '23, F, My, Ag, N '24, F, Ag '25
Tarifbewegung für den verkauf elektrischer arbeit. P. Grondorf. Elektrotech Zeit 46: 1626-30 O 22 '25
Tarifbewegung für den verkauf elektrischer arbeit. G: Riedel. Elektrotech Zeit 46:9-11 Ja 1 '25; Discussion. 46:557-82 Ap 16 '25
Die tarifgrundlagen des elektrizitätswerks Riga. H. Sihle. Elektrotech Zeit 46:1071-3 Jl 16 '25
Tariff problem; the kilowatt year system in Norway—the use of a current limiter. M. Jorgensen. il diag Electrician 94:658-9 Je 5 '25
Temporary rate increase denied Edison company. J Elec 53:303 O 15 '24
Truth about electric rates in Ontario. W: M. Carpenter. map Elec W 84:887-90 O 25 '24
Utah company establishes domestic refrigeration rate. Elec W 86:276-7 Ag 8 '25
What elaborate rates may do to bills. Elec W 83:340-1 F 16 '24
What is the basis of a power-factor solution? Elec W 82:898, 1172 N 3, D 8 '23
Die wirtschaftlichkeit des phasenschiebers für den stromabnehmer. H. Vogt. diags Elektrotech Zeit 46:918-22 Je 18 '25
Die zählung von benutzungsstunden. K: Laudien. diags Elektrotech Zeit 46:587-8 Ap 16 '25
Zone rates to encourage new business. map Elec W 86:704 O 3 '25

See also Power contracts

ELECTRIC refrigerators. See Refrigerators, Electric

ELECTRIC research
Activities in research; report of A.I.E.E. committee. Am Inst E E J 44:1082-4; Discussion. 1155-6 O '25
High-voltage phenomena. F. W. Peek, jr. il diags J Fr Inst 197:1-44 Ja '24
Industrial research, with special reference to electrical engineering development. W. Wilson. diags Inst E E J 62:61-82 Ja '24; Abstract. Electrician 91:510-11 N 9 '23; Discussion. Inst E E J 62:83-107 Ja '24; Electrician 91:515; 92:7 N 9 '23, Ja 4 '24
New fields of research for power development. E. W. Rice, jr. Gen Elec R 27:572-9 S '24
Research and appropriate personnel. A. P. M. Fleming. Electrician 94:620-1 My 29 '25

See also Edison lighting institute; Weston, Edward

ELECTRIC resistance
Alternating current resistance of single layer coils. S. Butterworth. Phys R 23:752-5 Je '24
Analysis of condenser resistance. S. Harris. il Radio N 6:1668-9+ Mr '25
Analyzing high frequency resistance of single-layer coils. S. Harris. Radio N 6:1174+, 1425+ Ja-F '25
Beitrag zur ermittlung der belastbarkeit von widerständen in abhängigkeit von der zeitdauer der belastung und von der temperatursteigerung. P. Hennig. Elektrotech Zeit 46:995-7 Jl 2 '25
Beiträge zur kenntnis von widerstandsmaterialien. G: Klein. il Elektrotech Zeit 45: 300-2 Ap 3 '24
Calculating starting resistance for d. c. motors. Ind Eng 83:389-92 Ag '25
Commercial methods of carbon resistance measurement. R. Wilmeth. il diags Elec J 21:309-15 Jl '24
Contact resistance of brushes on commutators. Elec R (Lond) 96:286-7 F 20 '25
Contact resistance of large conductors. A. R. Enger. Elec J 21:316-18 Jl '24
Corona in oil. A. C. Crago and J. K. Hodnette. diags Am Inst E E J 44:219-22 Mr '25; Discussion. 44:638-40 Je '25
Critical resistance for flashing of air discharge-tubes. J. Taylor and W: Clarkson. Philos Mag 6th ser 49:336-53 F '25
Effect of a magnetic field on the electrical resistance of liquid metals and alloys. E. J. Williams. diags Philos Mag 6th ser 50:27-46 Jl '25
Effect of oxidation on the high-frequency resistance of aerial wires: with a note on measuring the resistance of thick wires. L. B. Turner. diags Inst E E J 63:149-53 Ja '25
Effects of gas upon the resistance and resistance-temperature coefficient of sputtered platinum films. F. W. Reynolds. Phys R 24: 523-31 N '24
Der einfluss der unterlage bei der messung des oberflächenwiderstandes von isolierplatten. R. Dieterle. diags Elektrotech Zeit 45:132-3 F 21 '24
Electrical resistance and thermo-electric power of the alkali metals. C: C. Bidwell. diags Phys R 23:357-76 Mr '24
Electrical resistance methods for the determination of the time of set of lime plaster. J. W. Stockett, jr. diag Am Soc T M Pro 24 pt 1:404-7 '24
Electrical resistance of mercury in magnetic fields. T. J. Jones. diags Philos Mag 6th ser 50:46-60 Jl '25
Electrical resistivity of copper. A. L. Norbury. Engineering 119:319 Mr 13 '25
Electrical resistivity of refractories. A. V. Henry. il Am Cer Soc J 7:764-82 O '24
Electrolysis of soda-lime glass. J. W. Rebbeck, M. J. Mulligan and J. B. Ferguson. diag Am Cer Soc J 8:329-37 [bibliog. p. 337-8] Je '25
Electrolytic capacity and resistance of pt-rhodamine B-pt cell, as determined by a phase angle method of measurement. Kuo-Feng Sun. Phys R 23:617-30 My '24
General formula for calculating the temperature of electrically heated wires. Elec R (Lond) 93:989-90 D 28 '23
Measurement of electrical resistance and mechanical strength of storage-battery separators. C. L. Snyder. diags U S Bur Stand Tech Pa 271:619-34 '25
Measurement of ground resistance. diag Elec W 85:1081 My 23 '25
Measurement of high values of insulation resistance. J. B. Whitehead. il diag Elec W 82:1007-9 N 17 '23

ELECTRIC resistance—*Continued*
Measurement of low resistance by means of the Wheatstone bridge. F. Wenner and A. Smith. U S Bur Stand Sci Pa 481:297-305 '24
Measurement of the fault resistance of a 2-wire direct-current system. G. W. Stubbings. diags Elec R (Lond) 95:769-70 N 21 '24
Methods of testing electrical apparatus. diags Elec J 22:191-6 Ap '25
Methods used in measuring resistance. diags Power Pl Eng 29:82-3 Ja 1 '25
New method of high-frequency resistance measurement. E. Mallett and A. D. Blumlein. Inst E E J 63:397-412 Ap '25; Abstract. Electrician 95:153 Ag 7 '25; Discussion. Inst E E J 63:412-14 Ap '25
Photo-resistance effect for metals at low temperatures. R. S. Bartlett. diag Phys R 26: 247-55 Ag '25
Rating of resistances. Elec R (Lond) 97:252 Ag 14 '25
Relation between the tensile strength and the electrical resistivity of commercially pure copper. W. E. Alkins. Engineering 117:347 Mr 14 '24
Resistance in wireless circuits. C. R. Fortescue. Engineer 139:265 Mr 6 '25
Resistance of copper at high temperature. P. Cloke. il Elec W 86:224 Ag 1 '25
Resistance of electrical connections. G: E. Luke. diags Elec J 21:66-9 F '24
La résistivité électrique de l'aluminium commercial. Génie Civil 83:521-2 N 24 '23
Simultaneous high frequency and direct current resistances of fine wires at various temperatures. J. D. Stranathan. diags Phys R 26:500-6 O '25
Some effects of resistance in radio tuning circuits. S. Harris. il diags Radio N 6:2080-1+ My '25
Some electrical properties of copper-nickel-manganese alloys. N. B. Pilling. Am Electrochem Soc Trans v 48 (preprint 2):9-24 S '25
Some electrical properties of high-resistance alloys. M. A. Hunter and A. Jones. Am Soc T M Pro 24 pt 2:401-15 '24
Transfer resistance. A. L. Ferguson and G. van Zyl. Am Electrochem Soc Trans v 47 (preprint 13):145-60 Ap '25
Variation in the resistance of carbon and graphite with temperature. B. Noyes, jr. diag Phys R 24:190-9 Ag '24
Verfahren zur w'derstandsmessung bei gleichstrommaschinen. E. Müllendorff. Elektrotech Zeit 46:1081 Jl 16 '25
Zusammenhang zwischen belastungsstromstärke und temperatur an frei ausgespanntem widerstandsmaterial. F. Stäblein. Elektrotech Zeit 45:495-6 My 15 '24

See also Dielectric constants; Electric conductivity; Electric measurement; Insulation (electric); Rheostats; Wheatstone bridge

ELECTRIC resistors
Ballast resistor in practice. H. A. Jones. il diags Gen Elec R 28:329-35 My '25
Edgewound resistor. il Elec Ry J 64:970 D 6 '24
Low-tension tests on high-tension fuses and resistors. P. M. Hess. il diags Elec W 84: 107-9 Jl 19 '24
Morganite resistor. il Elec R (Lond) 94:958-9 Je 13 '24
Motor-control rheostatic losses for centrifugal pump or fan service. C. H. Chapman. Power 62:249 Ag 18 '25
Standardizing railway car type resistors. J: S: Dean il Aera 14:791-2 N '25; Same. Elec J 22:565+ N '25
Theory and design of ballast resistors. H. A. Jones. diag Gen Elec R 28:650-9 S '25

See also Rheostats

ELECTRIC service, Rural
Abstract of I.E.E. committee's report. Elec R (Lond) 97:372-3 S 4 '25; Electrician 95: 205-7 Ag 21 '25
Advertising schedule of central-station company serving rural communities. Elec W 83:633 Mr 29 '24
Arrêté ministériel du 5 janvier 1924, déterminant le régime des subventions à allouer, sur les fonds du génie rural, pour l'électrification des campagnes. Génie Civil 84:116-17 F 2 '24
Bringing power to every farm. O. M. Kile. il Nation's Business 13:44+ O '25
Correlation of rural electrification projects urged at meeting of state directors. N E L A Bul 12:530 Ag '25
Dirt farmers of Kansas display keen interest in farm electrification. R. H. Timmons. N E L A Bul 11:134-8 Mr '24
Electric water heating as an off-peak rural load builder. F. C. Taylor. Elec W 83:293-4 F 9 '24
Electrical sunshine for agriculture. L. J. Taber. N E L A Bul 12:451-3 Jl '25
Electricity and the farmer. A. Capper. N E L A Bul 11:347-51 Je '24
Electricity and village industries. Lady Snell. il Electrician 95:350-1 S 25 '25
Electricity for rural areas; enterprising scheme by the Aylesbury council. map Electrician 94:65 Ja 16 '25
Electricity supply in Chester. il map Electrician 92:721-3 Je 13 '24
Electrification of rural districts in France. Elec W 85:605-6 Mr 21 '25
Electrifying the farm. H. Dent. Electrician 95:356+ S 25 '25
Facing the facts regarding rural service. C. S. Cook. Elec J 21:196-7 My '24
Farm electrification in Michigan. E. Holcomb. N E L A Bul 12:178-80 Mr '25
Farm electrification in New York state and how it can be achieved. O. D. Young. Econ W n s 29:544-7 Ap 18 '25; Same. N E L A Bul 12:288-92 My '25; Same abr. Gen Elec R 28:214-18 Ap '25; Same cond. Am Bankers Assn J 17:685-7 My '25; Excerpts. Elec W 85:786 Ap 11 '25
Farm engineers and utility men discuss rural electrification. Elec W 82:1031 N 17 '23
Farm-line extensions. C: M. Welch. Elec W 85:981 My 9 '25
Farm-service movement starts in New England. Elec W 85:62 Ja 3 '25
Farmer's a city chap now. il diag Pub Serv Management 37:83-4 S '24
Features of rural service. il Elec W 85:1306-8 Je 20 '25
First rural test line now operating in Minnesota. il map N E L A Bul 11:26-8 Ja '24
French rural electrification; some details of the equipment used. H. A. Carney. il diags Electrician 93:579-81 N 21 '24
French rural electrification; technical progress as reflected by the Lyons congress. H. A. Carney. Electrician 93:640; 94:272, 336 D 5 '24, Mr 6, 20 '25
How the power company aids farm land settlement. A. C. Joy. il J Elec 52:159-61 Mr 1 '24
Important phases of the rural electric service problem. E. A. White. N E L A Bul 12:448-50 Jl '25
Interconnection and service to the farm. G. Pinchot. Elec W 83:1095-6 My 24 '24; Same cond. N E L A Bul 11:424-5 Jl '24
Milestone passed in rural electrification. E. A. White il N E L A Bul 12:551-3 S '25
Notes on progress of farm electrification. il N E L A Bul 11:23-5, 88-9 Ja-F '24
Orégon committee on relation of electricity to agriculture issues first report. J Elec 55:260 O 1 '25
Organization and work of committee on relation of electricity to agriculture. J. W. Coverdale. N E L A Bul 10:712-14 D '23
Power to the farm. Power Pl Eng 27:1188-9 D 1 '23
Progress in rural service study. A. M. Perry. il Elec W 84:1253-7, 1297-1301 D 13-20 '24
Report of N.E.L.A. rural electric service committee. Elec W 85:1332-3 Je 20 '25
Rural distribution of electricity. W. Fennell. Elec R (Lond) 95:564-5 O 17 '24

ELECTRIC service, Rural—*Continued*
Rural electrical development in the San Joaquin valley. M. P. Lohse. il Elec W 85: 1033-4 My 16 '25
Rural electrification. R. H. Rogers. il Gen Elec R 28:634-9 S '25
Rural electrification and electric ploughing. J. A. Sumner. Elec R (Lond) 97:607-8 O 16 '25; Discussion. 97:678-9 O 23 '25
Rural electrification experiment in Minnesota. il Elec W 82:1016-18 N 17 '23
Rural electrification in California. B. D. Moses and G: C. Tenney. il J Elec 54:581-5 Je 15 '25
Rural electrification session of the convention of the American society of agricultural engineers. Elec W 83:1348 Je 28 '24
Rural electrification; some technical details of an interesting French scheme. H. A. Carney. il map Electrician 94:450-2 Ap 17 '25
Rural progress in the Midlands. il map Electrician 94:654-6+ Je 5 '25
Rural rates in Sweden. Elec W 86:162 Jl 25 '25
Rural service in Ontario. L. W. W. Morrow. il Elec W 86:790-4 O 17 '25
Rural service in the South. Elec W 84:1223-4 D 6 '24
Rural service on coast. Elec W 84:1375 D 27 '24
Rural street lighting. Elec W 84:126-7 Jl 19 '24
Rural survey in Oregon. Elec W 84:537 S 13 '24
Service for rural districts; single-phase service taken from three-phase power banks. L. J. Moore. diags Elec W 84:123-4 Jl 19 '24
Servicing rural territory. J. W. Carpenter. il map Elec W 85:929-30 My 2 '25
Some notes on rural electrification. W. H. Taylor and R. F. Markham. il Electrician 95:346-7+ S 25 '25
South Dakota experimental line proving successful. il N E L A Bul 11:150-1 Mr '24
Status of rural electrification. A. M. Perry. il Elec W 85:1211-16 Je 6 '25
Superpower and the farmer. R. F. Pack. Elec J 21:192-4 My '24
Swedish rural electrification. diags Electrician 93:347+ S 26 '24
Swedish water power and the farmer. il diag map Elec W 83:993-8 My 17 '24
Takes issue with giant power report. E. A. Stewart. Elec W 85:1263-4 Je 13 '25
Tasmanian hydro-electric undertaking; rural electricity supply development. il Elec R (Lond) 96:19-20 Ja 2 '25
L'utilisation des moteurs à huile lourde pour l'électrification des campagnes. Génie Civil 85:505-6 N 29 '24
Water power compared with steam power and their relation to rural service. G. C. Neff. N E L A Bul 11:152-4 Mr '24
What 17 organized states have accomplished in rural electrification. N E L A Bul 12: 554-68 S '25
Will electricity pay its own way on the farm? C: F. Stuart. il Forbes 14:486-9+ Jl 19 '24
World's experience with rural electrification. H. Evans. Ann Am Acad 118:30-42 Mr '25

See also Electricity on the farm

Cost

Cost data on a 6,600-volt rural line. J. C. Robinson. il diags Elec W 84:730-3 O 4 '24
Cost of rural electrification. M. L. Cooke. Elec W 85:765-6 Ap 11 '25
Graphic explanation of rural service costs. il Elec W 85:359 F 14 '25
Line costs and revenue in rural districts. Elec W 85:254 Ja 31 '25
Method of calculating rural extensions. C: H. Churchill, jr. il Elec W 85:556-8 Mr 14 '25
Note on rates for rural electric service. M. L. Cooke. Ann Am Acad 118:52-9 Mr '25
Rural electric service costs. E. A. Holloway. N E L A Bul 12:573-6 S '25

ELECTRIC ship propulsion. See Ship propulsion, Electric

ELECTRIC shock. See Electricity, Injuries from

ELECTRIC shops (repair)
Electrical repair shop equipment. E. L. Doty. il Elec J 20:460-2 D '23
Layout of lighting system and equipment in repair shop. J. R. Cravath. il Ind Eng 83: 553 N '25
Making the motor dealer's service shop more efficient. il J Elec 54:25 Ja 1 '25
Model plant an aid in industrial electric field. J Elec 54:216-17 Mr 15 '25
New million-dollar shops of the Southern California Edison company. H. W. Tice. il J Elec 54:275-9 Ap 15 '25
Operating and managing motor repair shops. G: P. Svendson. il Ind Eng 83:27-9 Ja '25
Utility storeroom and shops. W. R. Frampton, G. E. Decker and W. J. McCullough. il plan Elec W 85:1021-5 My 16 '25

See also Electric railroads—Shops

Records

Value of records of electrical repairs. J: S. Dean. Elec J 20:458-9 D '23

ELECTRIC shops (retail trade)
Appliance salesroom fitted and stocked for $5,000. il Elec W 84:851 O 18 '24
Building extra profits with non-electrical lines. il J Elec 53:450 D 15 '24
Electrical retailers and the public. Electrician 93:560-1 N 14 '24
Fit the store layout to the individual business. J: T. Bartlett. J Elec 54:64 Ja 15 '25
Fixture dealer develops new type of display case. il J Elec 52:210 Mr 15 '24
Focus the prospect's attention—then sell him. il J Elec 52:215 Mr 15 '24
Homey touch effective in Pomona establishment. il plan J Elec 55:344-5 N 1 '25
House of light; the new Mazda house of the British Thomson-Houston co. il Electrician 95:12-13 Jl 3 '25; Elec R (Lond) 97:36 Jl 3 '25
Importance of big showrooms. L. L. Robinson. diags plan Elec R (Lond) 94:952-3 Je 13 '24
Introducing the new product on a broad scale. J Elec 52:368-9 My 15 '24
Let the display sell results instead of materials. il J Elec 52:27 Ja 1 '24
Making the fixture display room more efficient. il J Elec 52:500 Je 15 '24
Putting selling power into the electrical interior. E. N. Simons. Elec R (Lond) 96:6-7 Ja 2 '25
Renting motors instead of selling them. D. G. Baird. Elec W 85:122 Ja 10 '25
Retail sales management in the electrical trade. E. N. Simons. Elec R (Lond) 95:316-17 Ag 29 '24
Retail stock is turned sixteen times each year. G. W. Barker. il J Elec 55:220-1 S 15 '25
Salesmanship and showrooms. D: Autton. Electrician 92:489 Ap 18 '24
Scientific salesmanship; principles of window dressing. D: Autton. il Electrician 92:16, 109-10 Ja 4, 25 '24
Selling more merchandise through better window displays. G: L. Black. il J Elec 53:283-7 O 15 '24
Specializing in retail merchandising. C. Grunsky. il J Elec 53:124-6 Ag 15 '24
Store arrangement aids in merchandising electrical appliances. D. D. McFarlane. il J Elec 52:47-9 Ja 15 '24
Utah power & light opens new sales quarters. il Elec W 85:676 Mr 28 '25
Window dressing and the retail electrical trade. E. N. Simons. Elec R (Lond) 95:567-8 O 17 '24

ELECTRIC shovels
Big English shovel loads Australian coal eight tons per dip. il Coal Age 27:5 Ja 1 '25
Bucyrus 120-B electric shovel. il Eng & Contr (Equip R) 63:907 Ap 29 '25
Clere mechanical shovel. il diags Engineering 117:495-6, 498 Ap 18 '24
Electric shovel. D. J. Shelton. il Eng & Min J 119:601-5 Ap 11 '25

ELECTRIC shovels—*Continued*
Electric shovel operation. H. C. Goodrich. Eng & Contr (G C) 64:633-4 S 16 '25
Electric shovels; abstracts. D. J. Shelton and D. Stoetzel. il Am Inst E E J 44:873-8 Ag '25; Eng N 94:748-9 Ap 30 '25; Eng & Contr (G C) 63:1116-20 My 20 '25; Discussion. Am Inst E E J 44:1020-1 S '25
Electric shovels lower coal-mining cost. il Elec W 85:1136-7 My 30 '25
First complete electrification of an open-pit iron-ore mine in Minnesota; specifications and operation costs of the electrical equipment. R. S. Walker. il diags maps Gen Elec R 27:580-91 S '24
For and against electric strip shovel. Coal Age 27:328 F 26 '25
Shovel electrification with alternating-current equipment. R. W. McNeill. il Elec J 22:82-5 F '25
Steam and electric shovels in open mine excavation. Eng N 95:602-3 O 8 '25
Strip mine desirable load. A. Clabaugh. il Elec W 86:753-4 O 10 '25
Stripping a twice-worked anthracite basin. F. H. Kneeland. il diag Coal Age 26:789-92 D 4 '24

Standards
Electric shovel standardization. H. T. Gracely. il charts diag Min Cong J 10:173-5 Ap '24

ELECTRIC signals
Electric signal machines; abstracts. J. Boot. Electrician 92:451 Ap 11 '24; Elec R (Lond) 94:509 Mr 28 '24
Electric signaling devices. T. R. Hay. il Coal Age 24:953-5 D 27 '23
Electrical signalling equipment on railways. V. Mitchell. diags Inst E E J 62:954-6 N '24
Elektrisch angetriebene signale im schleusenbetrieb; abstract. Klietz. Elektrotech Zeit 45:339-40 Ap 10 '24
Lamp signalling installation. il Elec R (Lond) 96:391-2 Mr 6 '25

See also Annunciators; Electric interrupters; Electric railroads—Signals; Fire alarms; Railroads—Signals

ELECTRIC signs
Advertising value of electric signs and billboards; report of committee of Pacific coast electrical association. J Elec 52:413-15 Je 1 '24
Chicago sign supports simplified. Elec W 84: 898 O 25 '24
Determining the advertising value of an electric sign. Elec W 83:389 F 23 '24
Electric sign industry should organize. O. D. Ziegler. Elec W 84:767-8 O 4 '24
Electric sign lamp development. Am Inst E E J 42:1367-8 D '23
Electricity as used for publicity. M. Partridge. Electrician 92:197 F 15 '24
Giant electric signs are erected in California. il J Elec 52:176-7 Mr 1 '24
Higher intensity lighting for electric sign. il Elec W 86:226 Ag 1 '25
Method of development in electric sign business. Elec W 83:732-3 Ap 12 '24
New electrical relay system; the operating mechanism for the thermometer on Colgate's large electric sign. diags Electrician 95:471+ O 23 '25
Pan gas has largest roof sign in the West. il J Elec 55:178 S 1 '25
Photo-letter pulls sign business. il Elec W 84: 1215 D 6 '24
Short cut design for electrical advertising. Am Inst E E J 44:911-12 Ag '25
Short cut design for electrical advertising. C. A. Atherton. il Illum Eng Soc 20:148-63; Discussion. 163-7 F '25
Single electric sign uses 44,300 kw.-hr. monthly. il Elec W 84:1268 D 13 '24
Some problems of the sign business. J. M. Gilchrist. Elec W 86:192-3 Jl 25 '25
Some timely comments concerning electrical advertising. H. Rose. J Elec 53:89-91 Ag 1 '24
Use of light for outdoor advertisements. G. P. Garbett. Illum Engr 17:38-43; Discussion. 47-51 Ap '24
Use of light in modern advertising. Elec R (Lond) 94:531 Ap 4 '24
Use of light in shops, show-windows, and for display purposes. M. Partridge. Illum Engr 17:44-6; Discussion. 47-51 Ap '24

ELECTRIC smelting. See Smelting, Electric

ELECTRIC sparks
Control of static and stray currents. C. Haner. diags Chem & Met Eng 31:5-7 Jl 7 '24
Influence of gaseous ionization and spark discharge on fibrous insulating materials and on mica. J. B. Whitehead. bibliog diags Am Inst E E J 42:1297-1304 D '23
Spark photography as a means of measuring rate of explosion. J: E. Smith. il diags Phys R 25:870-6 Je '25
Thermal theory of gas ignition by electric sparks. J. D. Morgan. Philos Mag 6th ser 49:323-36 F '25

See also Electric arc; Spark gap

ELECTRIC standards
Brief history of frequency selection and standardization. B. G. Lamme. Elec W 84: 601-3 S 20 '24
Electrical engineering standards issued by European standards committee in 1923. N E L A Bul 11:223 Ap '24
Französische normen für gummiisolierte leitungsdrahte und bleikabel; abstract. Elektrotech Zeit 45:275-6 Mr 27 '24
New edition of A.I.E.E. standards. F. D. Newbury. Elec J 22:447-51 S '25
Revised standards and the organization of standards activities; report of A.I.E.E. committee. Am Inst E E J 44:1084-7 O '25
Standards for electric service. U S Bur Stand Circ 56:1-338; Bibliography. 339-41 '23
Standards of the Electric power club. 15th ed. 159p Elec. power club, Cleveland, O. '23

See also Electric lines—Standards; Electric machinery—Standards; Electric motors—Standards; Electric substations—Standards; Electric transformers—Standards; Electric wiring—Standards

ELECTRIC steel. See Steel metallurgy—Electrometallurgy

ELECTRIC sterilizers. See Sterilizers, Electric

ELECTRIC stores. See Electric shops (retail trade)

ELECTRIC stoves
Advance! electric cooker. A. F. Berry. il diags Electrician 94:358-61 Mr 27 '25
Desirability of electric range load. C. O. Dunten. Elec W 85:259-61 Ja 31 '25
Effect of ranges on load curve. Elec W 86: 523 S 12 '25
Electric domestic and commercial cooking; report of Pacific coast electrical association. J Elec 54:398-403 Je 1 '25
Electric range metering. Elec W 83:290, 431 F 9, Mr 1 '24
Electric range servicing and complaint costs. Elec W 86:323 Ag 15 '25
Electric ranges build valuable load. J. T. Ryan. il Elec W 82:1024-5 N 17 '23
Jackson modern electric cookers. il Elec R (Lond) 96:673-4 Ap 24 '25
Kontakt-einheitsofen. il diag Elektrotech Zeit (special no.) 45:31 Ag 28 '24
Open versus closed hot plates. il Electrician 92:730 Je 13 '24
Spring test of electric ranges in the Northwest. J Elec 55:284-7 O 15 '25
Studying the range load in the Northwest. il Elec W 84:900 O 25 '24
Unbalanced electric range loads. P. P. Ashworth. Elec W 82:1276 D 22 '23

See also Electric cooking; Electric ovens

Cost of installation
Fixed prices for electric range installations. Elec W 84:476 S 6 '24

Cost of maintenance
Electric range maintenance costs. A. H. Kreul. J Elec 53:17-19 Jl 1 '24; Abstract. Elec W 83:1340-1 Je 28 '24

ELECTRIC stoves—*Continued*

Directories

Journal of electricity appliance directories. J Elec 55:290-1 O 15 '25

Merchandizing

Building an electric range load. H. J. Gille. Elec W 86:471-2 S 5 '25
Electric ranges used by 17 per cent of company's residential customers. Elec W 83: 1243-4 Je 14 '24
How shall the electric range be sold, served and installed? il map J Elec 52:355-9 My 15 '24; Same cond. Elec W 83:965-7 My 10 '24
Promotion of electric range sales; report of committee of Pacific coast electrical association. J Elec 52:386-7 Je 1 '24
Range load developed through co-operation. Elec W 86:227-8 Ag 1 '25
Range service at a cost of 90 cents a year. Elec W 84:176-7 Jl 26 '24
Selling the electric range. W. T. Ryan. chart J Elec 55:218 S 15 '25
Southern range campaign. Elec W 83:881-2 My 3 '24
Special sale increases range load. H. A. Dahl. Elec W 86:805-6 O 17 '25
Spokane range sale adds $30,000 gross revenue. W. T. Ryan. Elec W 86:126 Jl 18 '25
What classes of consumers are good range prospects? J Elec 54:245-6 Ap 1 '25

ELECTRIC stoves, Heating. See Electric heaters

ELECTRIC substations

Attractive substation in residential district of San Diego. il Elec W 84:1246 D 13 '24
Building a switching station in a day. Elec W 86:333 Ag 15 '25
Bus tunnel for heavy substation leads. E. A. Crellin. il Elec W 85:409-10 F 21 '25
Charleroi substation of the West Penn power company. G: S. Humphrey. il diags map plan Elec J 21:498-504 N '24
Compact 22-kv. substation structure. T: Hughes. il Elec W 84:953 N 1 '24
Considerations in design of outdoor substations. B. W. Kerr. Elec Ry J 63:180-1 F 2 '24
Customer's substation foundations. diags plans Elec W 85:564-5 Mr 14 '25
Detroit Edison builds switch station in a day. il Power Pl Eng 29:961-2 S 15 '25
Developments in substation practice in San Francisco. J. E. Woodbridge. il plan Elec Ry J 65:573-6 Ap 11 '25
Electric distribution network of the Pacific gas and electric company. S. J. Lisberger. il diag maps Elec J 22:268-73 Je '25
Electrical distribution for a city of unusual growth; Los Angeles. C. A. Heinze. il diags plans Elec J 22:261-8 Je '25
Electricity in a modern lumber project. F. R. Innes. il diags Elec W 85:198-202 Ja 24 '25
Features of 60,000-kva. substation. J. E. Goodale. il diag plan Elec W 84:881-4 O 25 '24
First concrete switch structure at Crawford. il Power Pl Eng 27:1191 D 1 '23
Fittings and connections for outdoor substations. W: T. O'Connell. il Power Pl Eng 29:754-5 Jl 15 '25
Freiluftstationen. J. Sessinghaus. il diags Elektrotech Zeit (special no.) 45:20-3 Ag 28 '24
French rural electrification; some details of the equipment used. H. A. Carney. il diags Electrician 93:579-81 N 21 '24
Golden Gate substation. il Elec W 85:602 Mr 21 '25
Industrial substation equipment. il Ind Eng 83:81-3+ F '25
Inexpensive industrial substations. J. C. Carey. il Elec W 85:878 Ap 25 '25
Inexpensive outdoor substation. G. A. Iler. il diag Elec W 86:519 S 12 '25
Kentucky substation layout saves space and is convenient. il diag Coal Age 27:881 Je 11 '25
Kings Highway substation of the Brooklyn Edison company. C. M. Gilt. il diags Elec J 22:521-5 N '25
Large sub-station in Montreal. Can Eng 48: 578 Je 16 '25
Mercury arc rectifier substations in Europe. Elec Ry J 64:456 S 20 '24
Mercury arc rectifiers for railway work. diag Elec Ry J 66:543-4 O 3 '25
Mine substations properly equipped and located help cut down power costs. J. E. Borland. il Coal Age 28:421-5 S 24 '25
Modern transformer station at Toronto Wiltshire hydroelectric plant. il diags plans Elec W 86:552-5 S 19 '25
New outdoor switching station finished at Lents. W. C. Foster. il diags J Elec 54: 104-6 F 1 '25
New 60-kv. substation completed at Spokane, Wash. R: McKay. il J Elec 54:364-5 My 15 '25
New substation for Northern Indiana. il Power Pl Eng 29:360-1 Mr 15 '25
New-type outdoor industrial substation. il Elec W 83:833 Ap 26 '24
New types of outdoor substations. C. D. Gray and M. M. Samuels. il diags Elec W 84:208-10, 263-7 Ag 2-9 '24
Outdoor station developments. il Elec W 85: 53 Ja 3 '25
Outdoor sub-station equipments; an historical review. il Electrician 93:692-3+ D 19 '24
Outdoor substation for stone-cutting mill. F. A. Westbrook. il plan Elec W 83:483 Mr 8 '24
Outdoor substation practice. il diag Power Pl Eng 29:696-700 Jl 1 '25
Outdoor traction sub-stations. il Engineer 138: 556, 561-3 N 14 '24
Pittsburgh's new substation. G. Sutherland and H. S. Moore. il diag plan Elec W 85:188-93 Ja 24 '25
Power distribution system of Chilean state railways electrification. D. C. Hershberger. il diags map plan Elec Ry J 63:881-8 Je 7 '24
Purchased power as applied to plate glass manufacture; substation built for the Crystal City plant. A. L. Harrington. diags Am Inst E E J 44:463-8 My '25
Quecksilberdampf-grossgleichrichter in unterwerken der französischen hauptbahnen. B. Schaefer. il diags Elektrotech Zeit 46:833-6 Je 4 '25
Railway and power substations combined for economical operation. il Elec Ry J 63:729-31 My 10 '24
Reclosing equipment for mines. E. L. Hough. il diags Eng & Min J 119:563-7 Ap 4 '25; Correction. 119:724 My 2 '25
Saving oil breakers in a high-tension double-bus layout. E. A. Crellin. il diag Elec W 85:619-20 Mr 21 '25
Semi-automatic distribution centers. il Elec W 86:855-6 O 24 '25
Semi-automatic substation at Concord. il diags Elec Ry J 63:321-3 Mr 1 '24
Shunt operation of rotary converters in substations effective. R. J. Saulsbury. diag map Elec Ry J 62:815-17 N 10 '23
60-cycle distribution system of the Commonwealth Edison company. W. G. Kelley. il diags map Am Inst E E J 44:1189-95 N '25
Soundproof features of substation design prove effective. H. E. Cox. Elec Ry J 66: 236 Ag 15 '25
Southern railway electrification. il Elec R (Lond) 97:299-303, 330-1 Ag 21-28 '25
Staten Island rapid transit company's power supply. C. A. Butcher. il map Aera 14:258-70 S '25; Same cond. Elec Ry J 66:53-6 Jl 11 '25; Same cond. Ry R 77:51-6 Jl 11 '25
Substation design to meet space limits. J. C. Gaylord. il diags plans Elec W 84:989-92 N 8 '24
Substation operation. E. Kurtz. 261p McGraw-Hill '24
Substations for present-day requirements. L. C. Williams. il diags plans Elec W 84:1194-9 D 6 '24
Substations of 100 kv. in Saxony. A. Rachel. Elec W 83:585 Mr 22 '24

ELECTRIC substations—*Continued*
Successful combination of art and utility; an electric sub-station acceptable for a residential district. B. Pickett. il Eng & Contr (Bldgs) 63:881-3 Ap 24 '25
33,000-volt bulk supply scheme for Gorseinon. il diag Engineering 117:260-2, 295-9, 306 F 29-Mr 7 '24
Traction sub-stations. il Electrician 94:304 Mr 13 '25
Transformer station of the future. M. M. Samuels. diag Elec W 82:1265-6 D 22 '23
Transformer substations in Australia. F. W. H. Wheadon. il diag Elec W 86:466-7 S 5 '25
United States public printer makes large saving by rebuilding power plant. il Power 62: 712-14 N 10 '25
Verbesserung der wirtschaftlichkeit von umformerwerken. V. B. Rohde. Elektrotech Zeit 45:1051-3 O 2 '24

See also Converters, Synchronous; Electric distribution; Electric transformers; Electric transmission

Automatic operation

See Electric substations, Automatic

Cost of construction

Actual costs of transmission line and substation. il diags plan Elec W 82:1324-7 Je 28 '24
Estimated cost of making substation changes. Elec W 82:1022 N 17 '23
Estimated cost of station and switch house. Elec W 83:191-2 Ja 26 '24
Line and substation costs. diags plans Elec W 82:1159-63 D 8 '23

Inspection

Substation inspection minimizes outages. Elec W 83:531 Mr 15 '24

Operators

Training substation operators. Elec W 84:1005-6 N 8 '24

Safety devices and measures

Preventing accidents in substation operation. H. E. Niesz. il Nat Safety N 10:25-7 N '24; Abstract. Elec Ry J 64:560-1 O 4 '24
Protective apparatus for substation equipment. G. D. Cameron. diags Coal Age 25: 701 My 8 '24
Substation hazards are lowered. Elec W 84: 1160-1 N 29 '24

Standards

Standardization in outdoor structures. il Elec W 86:938 N 7 '25
Standardizing 6,600/440-volt outdoor substations. diag plan Elec W 84:897-8 O 25 '24
Standardizing small substations. J. C. Gaylord. il diags Elec W 84:357-9 Ag 23 '24

Ventilation

Lüftung von transformatorenkammern. F. Sieber. Elektrotech Zeit 46:115-17 Ja 22 '25
Ventilating transformer vaults systematically. chart Elec W 84:1213 D 6 '24
Ventilation and noise control of substation machinery. F. T. Hague. diags Elec J 21: 107-11 Mr '24

ELECTRIC substations, Automatic
Application of automatic control to mine substations. C. E. H. von Sothen. il plans Am Inst E E J 43:729-35 Ag '24; Discussion. 44:72-3 Ja '25
Application of automatic substations to central station service in metropolitan districts. C. W. Place. il diags Am Inst E E J 43: 634-41 Jl '24; Discussion. 44:263-70 Mr '25
Automatic alternating-current substation. C. E. Schnell. il diags Elec W 83:279-81 F 9 '24
Automatic and semi-automatic mercury vapour rectifier substations. G. Rogers. diags map plans Inst E E J 63:157-72 F '25; Same cond. Engineering 118:782-4, 845-7 D 5, 19 '24; Abstracts. Electrician 93:616 N 28 '24; Elec R (Lond) 95:835-6 N 28 '24; Engineer 138:615-16 N 28 '24; Discussion. Inst E E J 63:173-89, 473-9 F, My '25; Electrician 93: 620 N 28 '24; Elec R (Lond) 95:836-7 N 28 '24; Engineer 138:622 N 28 '24
Automatic control for substation apparatus. W. H. Millan. Am Inst E E J 44:588-91 Je '25; Same. Power Pl Eng 29:543-6 My 15 '25; Discussion. Am Inst E E J 44:879-80 Ag '25
Automatic control of direct current circuits in coal mines. T. F. McCarthy. Min Cong J 11:484-5+ O '25
Automatic distribution substations of the Public service co. of Colorado, in Denver. W. D. Hardaway. il diags Gen Elec R 28: 384-8 Je '25
Automatic equipment for alternating-current substations. J. F. Spease. diag Gen Elec R 28:381-3 Je '25
Automatic station in New England. T. A. Barry. il Gen Elec R 28:392-7 Je '25
Automatic stations; abstracts of A.I.E.E. papers. Elec W 84:6-7 Jl 5 '24; Elec Ry J 64:21 Jl 5 '24
Automatic stations; here, there, and everywhere. H. W. Ewald. il map Gen Elec R 28:454-61 Je '25
Automatic substation equipment for South African railways. W. D. Bearce. il map Gen Elec R 28:713-19 O '25
Automatic sub-station for the Hendon-Edgware extension railway. il Engineering 118: 227-8, 230 Ag 15 '24; Same cond. Engineer 138:216-18 Ag 22 '24; Same cond. Elec R (Lond) 95:280-2 Ag 22 '24; Same. Electrician 93:203-4 Ag 22 '24
Automatic sub-stations at Manchester. il diags Elec R (Lond) 95:456-8, 519-20 S 26-O 3 '24
Automatic substations for city service. S. D. Bale. Elec Ry J 65:931-2 Je 13 '25
Automatic substations for Edgar Thomson works of the Carnegie steel company. R. J. Wensley. il diag Elec J 21:409-10 S '24
Automatic substations for Edison service. H. A. McCrea. Gen Elec R 28:375-80 Je '25
Automatic substations for industrial plants. C. Lichtenberg. il Am Inst E E J 43:411-15 My '24; Same cond. Coal Age 25:912-15 Je 19 '24; Same cond. Power Pl Eng 28:604-6 Je 1 '24; Discussion. Am Inst E E J 44:74-5 Ja '25
Automatic substations for industrial service. C. E. H. von Sothen. il Gen Elec R 28:404-7 Je '25
Automatic substations for railway signaling and train control. H. M. Jacobs. il diags Gen Elec R 28:640-9 S '25
Automatic substations for supplying 1500 volts direct current to suburban railways. C. A. Butcher. il diags Am Inst E E J 43:622-6 Jl '24; Discussion. 44:263-70 Mr '25
Automatic substations in Germany. J. Roubicek. diag Elec W 86:801-2 O 17 '25
Automatic substations in railway service. C. E. Baker. il Gen Elec R 28:431-5 Je '25
Automatic substations in steel mills. G. P. Wilson. diags W Soc E J 30:275-82 Je '25
Automatic substations in steel mills. G. P. Wilson. il diags Elec J 22:428-31 S '25
Automatic substations in the mining industry. E. L. Hough. il Gen Elec R 28:415-21 Je '25
Automatic substations of the Appalachian power company. G. L. Furr and W. L. Webb. il map plan Gen Elec R 28:408-14 Je '25
Automatic substations of the Kansas City power & light company. A. E. Bettis. il diags plans Gen Elec R 28:369-74 Je '25
Automatic substations of the Long Island lighting company. L: Wintner. il map Gen Elec R 28:171-5 Mr '25
Automatic substations of the Oregon electric railway. E. R. Cunningham and G: N. Barker. il map Gen Elec R 28:422-5 Je '25
Automatic substations on San Joaquin and affiliated systems; report of Pacific coast electrical association. J Elec 54:480-6 Je 1 '25
Automatic substations on the Chicago, Aurora & Elgin railroad. S. E. Johnson. il Gen Elec R 28:429-30 Je '25

ELECTRIC substations, Automatic—*Continued*
Automatic substations on the Chicago, North Shore & Milwaukee railroad. C: H. Jones. il map Gen Elec R 28:426-8 Je '25
Automatic substations on the Melbourne suburban railway system, Australia. R. M. Harvey. il diag map plan Gen Elec R 28: 491-8 Jl '25
Automatic sub-stations; some advantages. Electrician 93:440-1 O 17 '24
Automatic switching equipment devices. R. M. Brockway. il diags Gen Elec R 28:440-7 Je '25
British Thomson-Houston automatic sub-station equipment at the British Empire exhibition. Engineering 118:13-14, pl 7 Jl 4 '24
Changeover of Cleveland southwestern railway and light company to automatic substations. G. H. Kelsay and H. W. Stiner. il map Gen Elec R 28:436-9 Je '25
Cleveland Heights substation of the Cleveland electric illuminating company. H. L. Wallau. il diags Am Inst E E J 43:555-6 Je '24; Discussion. 44:263-70 Mr '25
Control and checking system for automatic stations. R. J. Wensley. il Elec W 82:1062-4 N 24 '23
Design and operation features of automatic substations; report of Pacific coast electrical association. J Elec 54:486-8 Je 1 '25
Experience with automatic substations. D. H. Nail. Elec Ry J 64:888 N 22 '24
Experience with automatic substations. E. K. Sadler. il Elec W 86:173-4 Jl 25 '25
First radio-controlled substation. Elec W 84: 479 S 6 '24
500-kilowatt automatic sub-station. il diags Engineer 138:590-1 N 21 '24
Les grands postes en plein air de transformation et de distribution d'électricité. R. Malo. il diags Génie Civil 87:201-7 S 5 '25
High-power mercury arc rectifiers; the automatic control of sub-station plant. R. L. Morrison. il chart diag Elec R (Lond) 97: 484-7 S 25 '25
How the Indianapolis & Cincinnati line was rehabilitated. il diag Elec Ry J 64:163-6 Ag 2 '24
Miller street automatic substation of the Public service electric & gas co., of New Jersey. N. L. Pollard. il diags plans Gen Elec R 28:358-63 Je '25
Motor-generator sets in two substations operated in parallel and controlled from surface. E. B. Wagner. il diag Coal Age 25: 593-8 Ap 24 '24
New features of St Louis automatics. il Elec Ry J 63:249-52 F 16 '24
Peebles-Reyrolle automatic substation. il diags Engineering 118:323-7, 330 S 5 '24
Progress in noiseless substation design. L. J. Turley. il diags map plans Elec Ry J 63: 645-51 Ap 26 '24
Report of A.I.E.E. committee on automatic stations. diags Am Inst E E J 44:1226-31 N '25
Report of the A.E.R.E.A. special committee on automatic substations. Elec Ry J 64:649-50 O 11 '24
Eine selbsttätige umformeranlage. P. v. d. Sterr. il diags Elektrotech Zeit 45:361-4 Ap 17 '24
Selbsttätige umformerwerke für bahnen. von Stritzl. Elektrotech Zeit 45:153-4 F 28 '24
Simplified automatic sub-station equipment; the Bruce Peebles-Reyrolle plant. il diag Elec R (Lond) 95:606-7 O 24 '24
Some developments in the electrical industry during 1923. J: Liston. il Gen Elec R 27: 17-21 Ja '24
Some developments in the electrical industry during 1924. J: Liston. il Gen Elec R 28: 14-17 Ja '25
Sub-station control systems. il Elec R (Lond) 95:715 N 7 '24
Supervising systems for the remote control of unattended sub-stations. C. J. Sarjeant and T. N. Riley. il Elec R (Lond) 95:8-9 Jl 4 '24
Supervisory controlled automatic sub-station for Wellington, N.Z. il Engineering 120: 494-5 O 16 '25; Engineer 140:412-13 O 16 '25; Electrician 95:441 O 16 '25; Elec R (Lond) 97:621-3, 646-7 O 16-23 '25
Supervisory controlled substation on Chicago Elevated. D. L. Smith. il diag Elec Ry J 64: 795-8 N 8 '24
Two-unit automatic station with purchased power aids steam plants at mines. L. P. Read. il diag Coal Age 27:753-6 My 21 '25
Use of automatic substations steadily increases. G. C. Hecker. il Aera 13:1651-60 My '25

Bibliography

References to literature on the automatic station 1921-1925. A. A. Slobod. Gen Elec R 28:462-4 Je '25

Records

Special recording meters write station log. E. W. Cook. il diags J Elec 55:176-7 S 1 '25

Ventilation

Automatic substation cooling systems. A. L. Greene. Elec W 85:152-3 Ja 17 '25
Improved ventilating features in Los Angeles automatic substations. L. J. Turley. il diags Elec Ry J 66:153-7 Ag 1 '25

ELECTRIC substations, Portable
Portable substation for emergency service. il Elec W 85:826 Ap 18 '25
Portable substation operates at different voltages. il Elec Ry J 65:53-4 Ja 10 '25
Portable substation with telescopic tower. il diags plan Elec Ry J 64:309-10 Ag 30 '24
Portable transformer substations for the Italian railways. il Engineering 120:212-13 Ag 14 '25

ELECTRIC switches
Automatic control of motor-operated air switches. R. E. Finley. il diags Elec W 85:516-17 Mr 7 '25
Automatic electric time switches. il Elec R (Lond) 94:724-5 My 2 '24
Betriebssichere elektrische schaltgeräte. W: Höpp. diags Elektrotech Zeit 45:69-74, 91-6 Ja 31-F 7 '24
Care in choosing and maintaining fuse and switches may prevent many accidents. J. F. MacWilliams. il diag Coal Age 26:468-71 O 2 '24
Choice of switchgear for main- and substations. W: A. Coates. 292p Van Nostrand '24
Closing high-tension oil switches after trouble. J. R. Dowdell. Elec W 85:719 Ap 4 '25
Colliery at the British Empire exhibition. il diags Engineering 118:49-51 Jl 11 '24
Design of electrical plant control gear and connections for protection against shock, fire and faults. H. W. Clothier. diags Engineer 139:268 Mr 6 '25
Disconnecting switches and primary cut-outs for overhead distribution. M. J. Crabbs. il diags Elec J 22:305-8 Je '25
Druckschalter mit motorschutz für drehstrommotoren. diags Elektrotech Zeit (special no.) 45:41-2 Ag 28 '24
Easily made safety-switch boxes. F. Huskinson. il Power 61:386 Mr 10 '25
Electric motor-control gear at the British Empire exhibition. il diag Engineering 118: 580 O 24 '24
Electric power club instructions for installing oil circuit breakers and power switching equipment with pointers on the care and operation thereof. il Ind Eng 83:378-9 Ag '25
Electrical control apparatus. il diag Power Pl Eng 29:84-6 Ja 1 '25
Electrical engineering exhibits at the British Empire exhibition. il diag Engineer 138:313-16 S 19 '24
Electrical gear for mining work. il Electrician 93:262-3 S 5 '24
Elektrotechnische betriebserfahrungen bei der grosskraftversorgung. A. Peucker. Elektrotech Zeit 46:377 Mr 12 '25

ELECTRIC switches—*Continued*
Ellison hand-operated 6,000-volt switchgear. il Elec R (Lond) 93:995 D 28 '23
Ellison ironclad draw-out switch pillar. il Engineering 120:116 Jl 24 '25
English-Electric truck-type switchgear. il Elec R (Lond) 94:435 Mr 14 '24
Equalizer switch opens when breaker acts, thus preventing flashing. diags Coal Age 27: 551 Ap 9 '25
Erskine Heap switchgear. il diags Engineering 118:106-8 Jl 18 '24
Essential requirements of safety switches. J. E. Housley. il diags Ind Eng 83:123-6+ Mr '25
Experiences prevent accidents. Elec W 83: 624 Mr 29 '24
Facts versus fancies in the meter-service switch question. J. Sachs. il Elec W 84: 1049-54 N 15 '24; Discussion. 84:1360-1; 85: 202-3 D 27 '24, Ja 24 '25
Ferguson, Pailin armourclad switchgear. il diag Elec R (Lond) 94:156-7 Ja 25 '24; Electrician 92:104 Ja 25 '24
Ferguson, Pailin self-contained extra-high-tension switchgear. il Engineering 117:642, 650 My 16 '24
Gussgekapselte schaltanlagen. il Elektrotech Zeit 45:959-60 S 4 '24
High capacity oil switch. M. Vogelsang. Elec W 84:802 O 11 '24
High tension practice at Wembley. Electrician 94:337 Mr 20 '25
High-voltage switches, bushings, lightning arresters; experiences of the Southern California Edison co. H. Michener. Am Inst E E J 42:1251-4 D '23; Discussion. 43:361-4 Ap '24
Die hochleistungsschalter der firma Voigt & Haeffner. il diags Elektrotech Zeit 45:799-802 Jl 24 '24
Hochspannungs-schaltanlagen mit versenkt eingebauten ölschaltern. diag Elektrotech Zeit 45:627-8 Je 12 '24
Interlock protects mine electrical service. il Coal Age 28:226-7 Ag 13 '25
Interlocking disconnecting switches. diags Elec W 85:303 F 7 '25
Ironclad service cut-outs. il Electrician 92: 514 Ap 25 '24
Die kleinautomaten der Voigt & Haeffner A.-G. F. Schoof. il diags Elektrotech Zeit 46: 1381-3 S 3 '25
Large electric hoist has air-operated contactors. J. E. Borland. il diag Coal Age 28:524-7 O 15 '25
Latches and operating sticks for disconnecting switches. H. J. Crabbs. il diag Elec J 21:478-80 O '24
Limit switches and water-level indicator. F. Huskinson. diags Power 61:185-6 F 3 '25
Machine tool switchgear. il Engineer 139:362 Mr 27 '25
Metropolitan-Vickers mining switchgear. il Elec R (Lond) 94:75-6 Ja 11 '24
Mining switchgear. H. W. Clothier. Electrician 94:660 Je 5 '25
Minneapolis recycling motor program switch. il Heat & Ven 22:98-9 Ap '25
Minor switchgear evils. Elec R (Lond) 95: 645 O 31 '24
New switchgear at the Neasden power station. il diag Engineer 137:70, 74-5 Ja 18 '24
New 220-kv. switch stands tests. il Elec W 85:879-80 Ap 25 '25
New type of high-voltage switch. il diag Elec W 85:979-80 My 9 '25
Numbering switches to indicate operating sequence. diag Power 59:877 My 27 '24
Oil switches for distribution systems. F. B. Kniskern. il diags Elec J 22:348-51 Jl '25
Portable meter-and-service-switch cabinet for outdoor use. K: Bausman. il diags Elec W 85:719-20 Ap 4 '25
Power station switchgear. C: C. Garrard. diags Electrician 94:723-4+ Je 19 '25
Report of Pacific coast electrical association sub-committee on line switches, fuses and protective devices. il diag J Elec 52:445-7 Je 1 '24
Research into the causes of corrosion at switch terminals. diags Elec R (Lond) 97: 436-7 S 11 '25
Reyrolle switchgear. il Electrician 92:630 My 23 '24
Sealing safety service-entrance switches. Elec W 86:945-6 N 7 '25
Sectionalizing of high-voltage lines; automatic apparatus recently developed by the Alabama power company. G: H. Middlemiss. il diag Elec W 84:1363-5 D 27 '24
Single mechanism operates and interlocks two switches. il diags J Elec 55:212-13 S 15 '25
6,600-volt steel frame switch gear. il Engineering 116:784 D 21 '23
Some developments in the electrical industry during 1923. J: Liston. il Gen Elec R 27: 46-53 Ja '24
Some developments in the electrical industry during 1924. J: Liston. il diag Gen Elec R 28:42-50 Ja '25
Steel enclosed switching equipment for steel mill service. M. J. Wohlgemuth. il Elec J 22:417-20 S '25
Street lighting switches and insulating transformers. diags Elec W 84:74 Jl 12 '24
Switchgear and induction regulators; British Empire exhibition. il Engineering 118:180-1 Ag 1 '24
Switchgear for electric power control. E. P. Wedmore and H: Trencham. 335p Oxford '24
Tapping switch for power transformers. diag Elec R (Lond) 94:817 My 16 '24
Timing the operation of oil switches. C. W. Bates. Elec W 84:70-1 Jl 12 '24
Transformer tapping switch; Johnson & Phillips model. il Elec R (Lond) 95:118 Jl 18 '24
Type ZO push-bottom operated oil switch for starting squirrel cage induction motors. il Blast F & Steel Pl 13:263 Je '25; Coal Age 28:303-4 Ag 27 '25
V D E kommission für schaltgeräte. Elektrotech Zeit 46:506-12, 549-53 Ap 2-9 '25
Westinghouse safety switch of foolproof design. il Eng & Min J 120:635 O 17 '25; Coal Age 28:552 O 15 '25; Eng N 95:613 O 8 '25; Ry Mech Eng 99:656 O '25

See also Switchboards

Failures

Bemerkenswerter betriebsunfall. il Elektrotech Zeit 45:441-2 My 1 '24
Explosion of an oil switch. H. Heinicke. Elec W 83:1342 Je 28 '24

Manufacture

Adaptation of formed steel to motor control apparatus. C: H. Hodgkins. il Elec J 21: 30-3 Ja '24

Specifications

Switchgear specifications and tenders. J. R. Wilkinson. Elec R (Lond) 96:169-71 Ja 30 '25

Testing

Pole-top switch tests. diags Elec W 86:903-4 O 31 '25
Socket and switch testing apparatus. il Elec W 84:273-4 Ag 9 '24
Test for endurance of two air-break switches. Elec W 84:469 S 6 '24
Von der untersuchungsstells für isoliermaterialien. O: Edelmann. il diags Elektrotech Zeit 45:1148-9; 46:145-8 O 23 '24, Ja 29 '25

ELECTRIC symbols
Revised symbols for wiring plans. Am Inst Arch J 12:255-6 My '24; Same abr. Am Inst E E J 43:557 Je '24

ELECTRIC testing
Alhambra plant of the Southern California Edison company uses testing laboratory. W. R. Frampton. il plan Elec W 86:304-8 Ag 15 '25
Bekanntmachung über prüfungen und beglaubigungen durch die elektrischen prüfämter. diag Elektrotech Zeit 45:1349-50, 1412 D 4, 18 '24
Cambridge universal testing set (pattern V). il diag Elec R (Lond) 93:873-4 D 7 '23
Checking switchboard-instrument connections. R. Brown. diags Power 60:253-4 Ag 12 '24

ELECTRIC testing—*Continued*
Continuity testing instrument for earth circuits. Engineering 119:751 Je 12 '25; Elec R (Lond) 96:913 Je 5 '25
Details of construction and some possible uses of a growler. W. E. Paulsen. diags Ind Eng 83:502-4 O '25
Determining the sequence of phases. J: Auchincloss. Elec W 86:420 Ag 29 '25
Erzeugung von verschiedenen hochspannungsarten zu versuchs- und prüfzwecken. E. Marx. il diag Elektrotech Zeit 46:1298-9 Ag 27 '25
Facilities for standardization of instruments and rotating standards. J. R. Halladay. il diag plan Elec W 85:1029-31 My 16 '25
Flexible and portable test table. H. E. Reynolds. diags Elec W 84:1007 N 8 '24
High voltage testing; equipment of the Metropolitan-Vickers electrical co.'s research laboratory. il diags Electrician 94:148-9+ F 6 '25; Engineer 139:481-3 My 1 '25
Hochspannungsprüfanlage für das Elektrotechnische institut der technischen hochschule Aachen. K. Fischer. il diag Elektrotech Zeit 46:186-8 F 5 '25
Million volt testing equipments. il diags Engineer 139:412-13 Ap 10 '25
Million-volt testing plant at Ivry. R. B. Matthews. il diags Elec R (Lond) 94:124-6 Ja 25 '24
1 000 000 V testing. E. T. Norris. il diags Electrician 94:456-7+ Ap 17 '25
Testing 100,000 meters yearly. W. R. Frampton, G. E. Decker and W. J. McCullough. il plan Elec W 85:1067-9 My 23 '25

See also Dynamometer; Electric apparatus and appliances—Testing; Electric inspection; Electric lines—Testing; Electric locomotives—Testing; Electric measurement; Electric meters; Electric motors—Testing; Electric resistance; Electric transformers—Testing; Insulation (electric)—Testing; Relays—Testing; Watt-hour meters—Testing

ELECTRIC thawing. See Thawing, Electric

ELECTRIC toasters

Merchandizing

Get the baker to help you sell electric toasters. J Elec 51:380 N 15 '23

ELECTRIC traction. See Electric locomotives; Electric railroads; Railroads—Electrification; Trackless trolley

ELECTRIC tractors
Electric industrial trucks and tractors as revenue builders for central stations; report of committee of Pacific coast electrical association. J Elec 52:402-4 Je 1 '24
Les essais controlés de véhicules électriques à accumulateurs (octobre 1924). C: Dantin. il diags Génie Civil 85:589-96 D 27 '24
La traction électrique par accumulateurs sur les grands réseaux. diags Génie Civil 85:523-6 D 6 '24

See also Electric locomotives; Electric trucks

ELECTRIC tractors, Industrial
Electric tractors aid in shipping. il Management & Adm 9:360 Ap '25
Electric trucks and tractors for transporting materials. H. J. Payne. il Textile World 68:1347+ S 5 '25
Warner improved fifth wheel distributes trailer pay load. il Automotive Ind 53:383 S 3 '25

Cost of operation

Electric tractor saves $3,442.70. C. B. Adams. il Elec W 86:521 S 12 '25
Industrial tractors save cost in one year. il Elec W 85:570-1 Mr 14 '25

ELECTRIC transformers
Abnormal current transformer secondary voltages. R. Brown. diags Power 60:130 Jl 22 '24
Adapting instrument transformers to outdoor use. K: Bausman. il diag Elec W 85:408 F 21 '25
B.T.-H. low frequency transformer. il diag Electrician 95:238 Ag 28 '25
Brush electric transformers at the British Empire exhibition. il diag Engineering 117:777 Je 13 '24
Calcium-chloride breathers for transformers. diag Engineering 118:802 D 12 '24
Changing transformer ratio without interrupting the load. M. H. Bates. il diags Am Inst E E J 44:1238-42 N '25
Color and stencil identify transformer. J. Hill, jr. Elec W 84:1109-10 N 22 '24
Connecting banks of transformers in multiple. P. G. Bernholz. diag Power Pl Eng 27:1237 D 15 '23
Delta-connected transformers loaded at full and half voltage. E. P. Wimmer. Elec J 22:66-7 F '25
Design of small high-reactance transformers. R. H. Chadwick and D. W. Merchant. diags Gen Elec R 27:682-5 O '24
Details of modern transformers. il Power Pl Eng 29:49-52 Ja 1 '25
Determining polarity of current transformers. F. C. Hush. diags Elec W 83:97 Ja 12 '24
Development and characteristics of a 1,000,000-volt cascade transformer at California institute of technology. R. W. Sorensen. il diags Am Inst E E J 44:373-8 Ap '25
Dissimilar transformers in delta; vector solution. J. B. Gibbs. diags Elec J 22:121-2 Mr '25
Distribution practises in southern California. R. E. Cunningham. il diag Am Inst E E J 44:1196-1200 N '25
Distribution transformer ratios; report of Pacific coast electrical association. J Elec 54:469 Je 1 '25
Distribution transformers. E. G. Reed. il diags Elec J 22:295-9 Je '25
Effects of opening the secondaries of current transformers. R. Brown. il Power 58:843 N 27 '23
Electric butt welder with a water-cooled transformer made by Federal machine & welder company. il Ry Mech Eng 99:59-60 Ja '25
Electric transverter at the British Empire exhibition. il Engineer 137:533-5 My 16 '24; Engineering 117:563-6, pl 55-6 My 2 '24; Power Pl Eng 28:704-5 Jl 1 '24; Mech Eng 46:433 Jl '24; Discussion. Engineering 117:649, 669, 712, 744, 796 My 16-Je 6, 20 '24
English-electric transverter; theoretical and technical details of the Calverley-Highfield patents. il diags Electrician 92:567-9+ My 9 '24; Elec R (Lond) 94:1047-8 Je 27 '24; Discussion. 92:601, 699 My 16, Je 6 '24; Elec R (Lond) 94:790-1 My 16 '24
Errors of potential transformers. G. W. Stubbings. Elec R (Lond) 97:126-7 Jl 24 '25
Extra high tension potential transformers. il Electrician 95:180 Ag 14 '25
Giant 118,800-volt transformers; Ferranti 120,000-kVA plant for India. il Elec R (Lond) 96:719 My 1 '25; Electrician 94:567+ My 15 '25
Grounding transformer secondaries. J. B. Gibbs. diags Power 60:323-4 Ag 26 '24
High pressure testing; the De Laval-Watson transformer set. il Electrician 93:698 D 19 '24
High tension practice at Wembley. Electrician 94:337 Mr 20 '25
High voltage transformers. F. A. Dahlgren. Electrician 91:688-9 D 21 '23
Hochspannungsprüfanlage für das Elektrotechnische institut der technischen hochschule Aachen. K. Fischer. il diag Elektrotech Zeit 46:186-8 F 5 '25
How to check instrument transformer and meter connections. V: H. Todd. diags Power 58:413-15 S 11 '23; Same. Coal Age 24:851-3 D 6 '23
How to make high-pressure transformers. F. E. Austin. 3d ed. 75p F. E. Austin, Hanover, N.H. '24
Inertaire transformer. W. M. Dann and D. R. Kellogg. il diags Power Pl Eng 28:858-61 Ag 15 '24; Abstract. Am Inst E E J 43:1144 D '24; Discussion. 44:278-80 Mr '25

ELECTRIC transformers—*Continued*
Large transformers. A. Fliedner. il Electrician 95:150-1 Ag 7 '25
Loading transformers on heat basis. N. L. Dolph. Elec W 82:1209-12 D 15 '23
Magnetic properties of silicon steel in a large transformer. G. H. Cole. Elec J 21:17-24 Ja '24
Marking transformer terminals. W. G. Bass. Electrician 94:328-31 Mr 20 '25
Mechanical forces in power transformers. diags Power 60:166-7 Jl 29 '24; Discussion. J. F. Peters. 60:428 S 9 '24
Metering unbalanced loads on transformers. W. F. Walsh. diags Elec W 85:617-18 Mr 21 '25
Million volt testing equipments. il diags Engineer 139:412-13 Ap 10 '25
Modern transformer construction. Elec R (Lond) 93:996 D 28 '23
Neuzeitliche amerikanische grosstransformatoren. A. Palme. il diags Elektrotech Zeit 45:1240-2 N 13 '24
New two-phase to six-phase transformer; connection of one hundred per cent apparatus economy. A. Boyajian. diags Am Inst E E J 44:591-2 Je '25; Same. Power Pl Eng 29:905-6 S 1 '25; Discussion. Am Inst E E J 44:1024-5 S '25
Obtaining reduced voltage without use of taps. F. C. DeWeese. diags Power Pl Eng 29:394 Ap 1 '25
1 000 000 V testing. E. T. Norris. il diags Electrician 94:456-7+ Ap 17 '25
1875 kilovolt-ampère single-phase transformer at the British Empire exhibition. il Engineer 137:558-60 My 23 '24
Open-delta transformer operation. A. Boyajian. diags Elec W 83:417-18 Mr 1 '24
Operation of converting apparatus. V. E. Johnson. diags Power Pl Eng 29:193-5, 288-90, 390-4 F 1, Mr 1, Ap 1 '25
Pacific electric manufacturing company meter transformer characteristics; report of Pacific coast electrical association. J Elec 54:479-80 Je 1 '25
Polyphase transformer magnetizing-current wave-forms. P. Kemp and H. P. Young. Inst E E J 63:877-95 [bibliog. p. 894-5] S '25
Potential transformer protection scheme using resistors. J Elec 54:16-17 Ja 1 '25
Principles of transformer connections. V. E. Johnson. diags Power Pl Eng 29:956-8, 1102-6 S 15, N 1 '25
Proposed change in transformer polarity. J Elec 52:462-3 Je 1 '24
Protective resistances and fuses for potential transformers. C. A. Wilson. Elec R (Lond) 94:912 Je 6 '24; Discussion. 94:1027-8 Je 20 '24
Ratio of transformation; number of turns, auto-transformers, phase relations, phase transformation. diags Power Pl Eng 29:42-4 Ja 1 '25
Reasons why open-delta connected transformers often burn up. O. E. Kenworthy. diags Coal Age 26:57-8 Jl 10 '24
Redistributing transformer locations reduces losses. G. T. Bogard. Elec W 84:898 O 25 '24
Renewal of fuses made safer on transformer circuits. O. E. Kenworthy. diags Coal Age 25:439 Mr 20 '24
Resolution of transformer reactance into primary and secondary reactances. A. Boyajian. diags Am Inst E E J 44:842-6 Ag '25; Discussion. 44:1132-42 O '25
Rotary converter transformers: design influenced by necessity of providing reactance. G. Berg. il Electrician 91:538-41 N 16 '23
Separate leakage reactance of transformer windings. O. G. C. Dahl. il diags Am Inst E E J 44:735-41 Jl '25; Discussion. 44:1132-42 O '25
Service promptly restored by emergency transformer. H. C. Thuerk. il Elec W 84:77 Jl 12 '24
Shock-absorbing and concentric speed transformer. diags Engineering 117:378 Mr 21 '24
Simple rule for connecting current transformers. L. F. Hunt. diags J Elec 54:210-11 Mr 15 '25
Size and type of fuses for transformers. Elec W 85:881 Ap 25 '25
Some developments in the electrical industry during 1923. J: Liston. il diags Gen Elec R 27:31-6 Ja '24
Some developments in the electrical industry during 1924. J: Liston. il Gen Elec R 28:30-2 Ja '25
Some high points on modern transformers. A. Palme. il Power 59:402-3 Mr 11 '24
Der spannungsabfall in wechselstromkreisen mit wirkwiderständen und blindwiderständen. R. Edler. bibliog Elektrotech Zeit 46:1109-14 Jl 23 '25
Special applications of standard transformers. J. B. Gibbs. diags Power 60:841-3 N 25 '24
Special potheads for power transformers. A. Palme. il Elec W 84:19-20 Jl 5 '24
Special transformer connections. diags Elec W 85:670 Mr 28 '25
Street-lighting transformers. diags Elec W 84: 20 Jl 5 '24
Systems of transformer connections. V. E. Johnson. diags Power Pl Eng 29:44-8 Ja 1 '25
Telephone transformers. W. L. Casper. il diags Am Inst E E J 43:197-209 Mr '24; Discussion. 43:1201-2 D '24
Theory of three-circuit transformers. A. Boyajian. diags Am Inst E E J 43:345-55 Ap '24; Discussion. 43:1208-9 D '24
Theory of transformers. diags Coal Age 25: 958 Je 26 '24
Three-phase transformers supplying 220-volt and 110-volt loads. V. T. Mavity. diags Elec W 83:726-7 Ap 12 '24
Three-winding transformers. J. F. Peters. Elec J 22:12-16, 71-7 Ja-F '25
Transformer harmonics. O. G. C. Dahl. 29p Nat. elec. light assn., New York '23
Transformer installation requirements. Elec W 84:691 S 27 '24
Transformer practice. il diags Power Pl Eng 29:39-53 Ja 1 '25
Transformer reactances studied. O. G. C. Dahl and others. Elec W 86:19-20 Jl 4 '25
Transformer regulation: a new foolproof tapping switch. il diag Electrician 92:668 My 30 '24
Transformer tap changing under load. F. V. Smith. il diags Elec W 86:270-2 Ag 8 '25
Transformer that eliminates danger of explosion. il Eng & Min J 118:354-5 Ag 30 '24
Transformers being built with tap switches. A. Palme. il Elec W 84:419-20 Ag 30 '24
Transformers connected for operation on a three-phase circuit. B. A. Briggs. diags Power 59:639-41 Ap 22 '24
Transformers connected for operation on a two-phase circuit. B. A. Briggs. diags Power 59:87-8 Ja 15 '24
Transformers for high-voltage systems. A. W. Copley. Am Inst E E J 42:1259-60 D '23; Discussion. 43:453 My '24
Transformers for very high voltage tests. il Elec R (Lond) 94:61-2 Ja 11 '24
Transverter. Locomotive 35:174-6 Ap '25
22,000-kv-a. transformers for Niagara Falls development. F. F. Brand. il diag Am Inst E E J 43:514-18 Je '24
Two-stage transformers. il Management & Adm 8:535-6 N '24
Types of transformers. diags Power Pl Eng 29:41-2 Ja 1 '25
Unbalance in furnace transformers. E. C. Starr. diags Elec W 84:320-2 Ag 16 '24
Uniformity of transformer mountings favored. J. C. Dodds. diag Elec W 84:1213 D 6 '24
Use of synchronous condensers with three-winding transformers. R. C. Bergvall. diags Elec J 21:205-6 My '24
Voltage control obtained by varying transformer ratio. L. F. Blume. diags Am Inst E E J 44:752-5 Jl '25; Discussion. 44: 1126 O '25
Voltage regulation by static transformers. G. Rattenbury. il diags Elec R (Lond) 96:524-7 Ap 3 '25

ELECTRIC transformers—*Continued*

When to replace old transformers. Elec W 85:1224 Je 6 '25

Zulässige überlastungen von ölgekühlten transformatoren. F. Sieber. Elektrotech Zeit 45:769-71 Jl 17 '24

Zur theorie des kapazitätstransformators. G. Probst. Elektrotech Zeit 45:750 Jl 10 '24

See also Compensators; Converters, Electric; Converters, Synchronous; Electric apparatus and appliances; Electric current rectifiers; Electric distribution; Electric motor generators; Electric substations; Electric transmission; Hydroelectric plants; Radio transformers

Autotransformers

Auto-transformer installation used by West Penn power company. diags Elec W 85:772 Ap 11 '25

Important property of the autotransformer. W. H. Ingram. Philos Mag 6th ser 47:241-5 Ja '24

Note on the auto-transformer and on the impedance as a tensor. W. H. Ingram. Philos Mag 6th ser 47:1092-5 Je '24

Operation of converting apparatus. V. E. Johnson. diags Power Pl Eng 29:390-4 Ap 1 '25

Performance of auto transformers with tertiaries under short-circuit conditions. J. Mini, jr., L. J. Moore and R. Wilkins. il diags Am Inst E E J 42:1243-7 D '23; Abstract. Elec W 82:864 O 27 '23; Discussion. Am inst E E J 43:450-2 My '24; Elec W 83: 130-1 Ja 19 '24

Use of tapped auto-transformers in testing motors. H. B. Hodgins. diags Power 61: 725-6 My 12 '25

Cooling

Forced-oil-cooling system for transformers. H. S. Foley. diag Elec W 82:1227 D 15 '23

Insulating and cooling large transformers. Power 59:909-10 Je 3 '24

Lüftung von transformatorenkammern. F. Sieber. Elektrotech Zeit 46:115-17 Ja 22 '25

Methods of cooling transformers. il Power Pl Eng 29:52-3 Ja 1 '25

Temperature rise of stationary electrical apparatus as influenced by radiation, convection and altitude. V. M. Montsinger and W. H. Cooney. il diags Am Inst E E J 43: 803-12 S '24; Discussion. 44:283-8 Mr '25

Testing transformer cooling coils. R. Brown. il Power 58:948 D 11 '23

Transformateurs à huile sous pression à refroidissement par eau. diag Génie Civil 84: 505-6 My 24 '24

Transformer cooled by air jets. L. H. Burnham. Elec W 86:703 O 3 '25

Transformer cooling; report of committee of Pacific coast electrical association. diags plan J Elec 52:451-5 Je 1 '24

Transformer cooling system. R. M. Peabody. diag plans Elec W 86:70-1 Jl 11 '25

Valve for transformer radiators. L. H. Hill. il diags Elec J 22:45-7 Ja '25

Ventilation for self-cooled transformers. T. C. Lennox. il Elec W 86:569-70 S 19 '25

Cost

Small high-voltage units must be avoided. W. S. Moody. Elec W 82:1125 D 1 '23

Inspection

Transformer inspection practice. Elec W 84: 794-5 O 11 '24

Transformer inspections. Elec W 84:412-14 Ag 30 '24

Manufacture

Making transformer castings. P. Dwyer. il Foundry 52:81-5 F 1 '24

Modern manufacturing plant. C. H. Champlain. il plan Management & Adm 10:181-6 O '25

Oil

See Oil, Transformer

Parallel operation

Design of new transformers to operate in parallel with existing transformers. S. A. Stigant. Elec R (Lond) 96:365-7 Mr 6 '25

How to connect transformers for paralleling 2- and 3-phase circuits. C. O. von Dannenberg. diags Ind Eng 82:100-1 F '24

Parallelbetrieb von drehtransformatoren. M Bucov. il diags Elektrotech Zeit 45:674-7 Je 26 '24

Paralleling distribution transformers. P. P. Ashworth. diag Elec W 83:482 Mr 8 '24

Paralleling three-phase banks of transformers. F: Krug. diags Power 59:536 Ap 1 '24

Records

Record system for meters and transformers. il Elec W 85:461-2 F 28 '25

Transformer records. Elec W 84:847-8 O 18 '24

Repair

Transformer maintenance schedule. chart Elec W 83:87-8 Ja 12 '24

Specifications

Outline of specifications for transformers for standard distribution (mill and city). Am Arch 125:sup12 Je 18 '24

Standards

Bushing current transformer standards adopted. T. J. Lovell. diag J Elec 54:286 Ap 15 '25

Distribution transformer standardization; report of Pacific coast electrical association. J Elec 54:436-7 Je 1 '25

Transformer standards of the Electric power club. 3d ed. 37p Electric power club, Cleveland '24

Storage

Industrial site effects concentration of supplies; San Joaquin light & power corporation operates efficient supplies. D. P. Mason. il plan J Elec 54:134-5 F 15 '25

Tables, calculations, etc.

Beitrag zur berechnung der streuspannung von transformatorenwicklungen. R. Küchler. Elektrotech Zeit 45:273-4 Mr 27 '24

Berechnung der überschlagswege von kugelfunkenstrecken in luft und beschreibung einer neuen durchführung. W. Kehse. diags Elektrotech Zeit 45:201-3 Mr 13 '24

Berechnung von kerntransformatoren. P. Andronescu. Elektrotech Zeit 45:845-8, 870-6 Ag 7-14 '24; Discussion. 46:205-8 F 5 '25

Calculating losses on a transmission system. map Elec W 83:1237-8 Je 14 '24

Calculating transformer sizes and short transmission lines. diag Power Pl Eng 29:304-5 Mr 1 '25

Calculation of transformers. H. Bohle. diags Electrician 94:448-9+, 478-9+, 512-13+ Ap 17-My 1 '25; Correction. 94:601 My 22 '25; Same. Elektrotech Zeit 46:293-8 F 26 '25

Charts for regulation of transformers. A. A. Boelsterli. Inst E E J 63:692-6 Jl '25

Methode graphischer ermittlung der zur dimensionierung von transformatoren mit niedriger sekundärspannung wichtigen grössen. P. F. v. Handel. Elektrotech Zeit 46:1114-15 Jl 23 '25

Practical transformer calculations. F. C. DeWeese. Power Pl Eng 29:492-3 My 1 '25

Schnelle berechnung von spannungsabfällen in leitungsnetzen. E. Rosseck. Elektrotech Zeit 45:1373-7 D 11 '24

Simplified slide rule method for calculating transformer efficiencies. N. Lee. Am Inst E E J 43:1040-2 N '24

Zur berechnung von transformatoren für quecksilberdampf- und argonal-gleichrichter. Hellmuth. diags Elektrotech Zeit 46:458-60 Mr 26 '25

Temperature

Hot spots and overload indicators. H. Cole. Elec W 84:314-17, 360-2 Ag 16-23 '24

Loading transformers on a temperature basis. E. G. Reed and W. A. Sumner. Elec J 22:551-3 N '25

ELECTRIC transformers—Temperature—*Cont.*
Recent developments in alternating-current temperature indicators for transformers. V. M. Montsinger. il Gen Elec R 27:706-7 O '24

Testing

Checking and testing transformer connections. L. P. Staubitz. il diags Ind Eng 82: 560-5+ D '24
Effects of time and frequency on insulation test of transformers. V. M. Montsinger. il diags Am Inst E E J 43:145-55 F '24; Discussion. 43:1186-7 D '24
Hot spots and overload indicators. H. Cole. Elec W 84:314-17, 360-2 Ag 16-23 '24
Inductive tests on small transformers. B. A. Fleshman. diag Elec W 85:150 Ja 17 '25
Insulation tests of transformers as influenced by time and frequency. F. J. Vogel. diags Am Inst E E J 43:627-33 Jl '24; Discussion. 43:1186-7 D '24
Megger test of substation transformers. Elec W 84:954 N 1 '24
Methods of testing current transformers. F. B. Silsbee. diags Am Inst E E J 43:239-49 Mr '24; Discussion. 43:1173-5 D '24
Ratio and phase error tests on current transformers. G. W. Stubbings. diags Elec R (Lond) 94:604-6 Ap 18 '24
Repairing and testing transformers. Elec W 84:1057 N 15 '24
Test for watertightness of transformers. C. B. Hefner. Elec W 84:848 O 18 '24
Testing of transformers after repair. F. I. Manvel. diags Elec W 85:514-15 Mr 7 '25
Testing Westinghouse transformers. C. H. Champlain. il Management & Adm 10:265-6 N '25
Transformatoren-sprungwellenprobe; abstract. G. Rump. diags Elektrotech Zeit 46:1003-4 Jl 2 '25
Transformer short-circuit tests. diags Elec R (Lond) 96:531-2 Ap 3 '25; Electrician 94: 396 Ap 3 '25

Transportation

Hauling heavy apparatus. A. N. Cartwright. il diag Elec J 22:222-4 My '25
Transporting heavy transformers over country roads. J. W. May. il Elec W 85:824-5 Ap 18 '25

Windings

Transformer windings. F. A. Dahlgren. diag Electrician 95:58+ Jl 17 '25

ELECTRIC transient phenomena
Cable charge and discharge. C: P. Steinmetz. Am Inst E E J 43:525-30 Je '24
Dr Louis Cohen's paper on alternating current cable telegraphy. L. A. MacColl. J Fr Inst 199:99-105 Ja '25
Double integraph for electric line transients. V. Karapetoff. Sibley J 39:243-5, 258-60 Ja-F '25
High voltage phenomena. G. Faccioli. il diags W Soc E J 29:431-42, 468 D '24
Klydonograph and its application to surge investigation. J. H. Cox and J. W. Legg. il diags Am Inst E E J 44:1094-1103 O '25; Abstract. Elec W 86:17-18 Jl 4 '25; Discussion. Am Inst E E J 44:1144-6 O '25
Lightning and other transients on transmission lines. F. W. Peek, jr. il diags Am Inst E E J 43:697-709 Ag '24; Discussion. 44: 403-7 Ap '25
New instruments for transients. diags Elec W 86:17-19 Jl 4 '25
Power system transients. V. Bush and R. D. Booth. Am Inst E E J 44:229-40 Mr '25; Discussion. 44:766-71 Jl '25
Problem in transient phenomena in coupled circuits. E. E. Witmer. J Fr Inst 198:217-29 Ag '24
Study of time lag of the needle gap. K. B. McEachron and E. J. Wade. il diags Gen Elec R 28:606, 622-33 S '25; Discussion. Am Inst E E J 44:1245-7 N '25
Transient electric phenomena in a non-inductive circuit. J. A. Wilcken. Philos Mag 6th ser 50:71-5 Jl '25
Transient performance of electric elevators; discussion. Am Inst E E J 43:1069-70 N '24
Transient phenomena in audio frequency transformers. A. D. Cardwell. il Radio N 5: 1079+ F '24
220-kv. transmission transients and flashovers. R. J. C. Wood. il diags Am Inst E E J 44:1211-18 N '25

ELECTRIC transmission
Brief history of frequency selection and standardization. B. G. Lamme. Elec W 84:601-3 S 20 '24
Conférence internationale (IIe) des grandes lignes électriques à trés hautes tensions. Génie Civil 83:617-19 D 22 '23
Conférence internationale (IIIe session) des grands réseaux électriques à haute tension (Paris, 16-25 juin 1925). Tribot-Laspière. Génie Civil 87:61-4, Jl 18 '25
Control of wattless current in power systems. S. Q. Hayes. il Power Pl Eng 29:141-5 Ja 15 '25
Corona losses between wires at extra high voltages. C. F. Harding. il diag Am Inst E E J 43:932-40 O '24; Discussion. 44:394-7 Ap '25
Determining transmission characteristics. A. N. Richardson. Elec W 84:1056 N 15 '24
D.c. versus a.c.; a comparison of the two systems for transmission purposes. A. Scherbius. Electrician 92:70 Ja 18 '24
Discussion at American institute of electrical engineers' midwinter convention on transmission systems. Am Inst E E J 43: 858-82, 980-8 S-O '24
Economic balance in electrical transmission. P. C. Jones. Elec J 22:9-12 Ja '25
Economic considerations of the power factor control of long high-voltage lines. A. V. Joslin. Am Inst E E J 42:1248-50 D '23; Discussion. 43:449-50 My '24
Electrical apparatus for high-tension power transmission. S. Q. Hayes. il plans Elec J 20:466-74 D '23
Electricity supply analysed. C: H. Merz. Electrician 93:254-5 S 5 '24
Engineering features of the Philadelphia electric company system. W. C. L. Eglin. il diags plans Elec W 83:941-5 My 10 '24
Experimental analysis of stability and power limitations. R. D. Evans and R. C. Bergvall. il diags Am Inst E E J 43:329-40 Ap '24; Discussion. 43:859-63 S '24
First half century of power transmission. P. H. Thomas. il diags Elec W 84:619-21 S 20 '24
Fundamental considerations of power limits of transmission systems. R. E. Doherty and H. H. Dewey. il diag Am Inst E E J 44:1045-57 [biblio. p. 1056-7] O '25
Future electric transmission; an interview with Dr Harris J. Ryan. A. R. Boone. J Elec 55:167-9 S 1 '25
Guided and radiated energy in wire transmission. J: R. Carson. Am Inst E E J 43:908-13 O '24
Guiding wire in electromagnetic transmission. O. B. Blackwell. il J Fr Inst 199:221-33 F '25
High voltage direct-current generation and distribution of electrical energy. J. S. Highfield and W. E. Highfield. diags Engineer 138:54 Jl 11 '24
High voltage phenomena. G. Faccioli. il diags W Soc E J 99:431-42, 468 D '24
High-voltage phenomena. F. W. Peek, jr. il diags J Fr Inst 197:1-44 Ja '24
High voltage transmission develops rapidly. il Power Pl Eng 29:650-4 Je 15 '25
Die hochspannungsleitung Bevers-Albulawerk; abstract. G. Lorenz. diag Elektrotech Zeit 45:561-2 My 29 '24
Important triad discussed at Pacific coast convention of A.I.E.E. J Elec 55:237-41 O 1 '25
Interconnection of electrical systems. diag map Power Pl Eng 28:949-52 S 15 '24
Lightning and other transients on transmission lines. F. W. Peek, jr. il diags Am Inst E E J 43:697-709 Ag '24; Discussion. 44:403-7 Ap '25

ELECTRIC transmission—*Continued*
Les lignes électriques a très hautes tensions. F. Drouin. il diags map Génie Civil 83:393-8, 421-4 O 27-N 3 '23
Limitations of output of a power system involving long transmission lines. E. B. Shand. diags Am Inst E E J 43:219-29 Mr '24
Maximum output of transmission systems. R. D. Evans and R. C. Bergvall. Elec W 83: 1171-3 Je 7 '24
New instruments for transients. diags Elec W 86:17-19 Jl 4 '25
New York Edison will install in the Bronx underground cable line to be operated at 132,000 volts. Pub Serv Management 39:18-19 Jl '25
Operation of 220,000 volt transmission lines. A. W. Copley. plans Elec J 21:202-4 My '24
Possibility of flash-overs; abstract. A. O. Austin. Am Inst E E J 43:1146 D '24; Discussion. 44:399-403 Ap '25
Power limitations of transmission systems. R. D. Evans and H. K. Sels. Am Inst E E J 43:45-51 Ja '24; Discussion. 43:868-70, 871-2, 877 S '24
Power system transients. V. Bush and R. D. Booth. Am Inst E E J 44:229-40 Mr '25
Power transmission lines; aspects of their design. W: T. Taylor. Elec R (Lond) 94:780-2, 907-9. 979-81; 95:349-51 My 16, Je 6-13, S 5 '24
Present state of transmission and distribution developments; report of A.I.E.E. committee. Am Inst E E J 44:1075-6; Discussion. 1150-5 O '25
Proceedings of the first World power conference; power transmission and distribution. Engineering 118:78-81 Jl 18 '24; Elec R (Lond) 95:129-30, 168-9, 204-5 Jl 25-Ag 8 '24
Radiation from transmission lines. C: Manneback. diags Am Inst E E J 42:95-105 F '23; Discussion. 42:981-2, 1362-5; 43:44 S, D '23-Ja '24
Relative advantages of 50-cycle and 60-cycle design. E. C. Harris. Elec W 83:675 Ap 5 '24
Resonance on 30 000 V systems. A. M. Taylor. diags Electrician 92:690-1 Je 6 '24
Some theoretical considerations of power transmission. C. L. Fortescue and C. F. Wagner. Am Inst E E J 43:106-13 F '24; Discussion. 43:864-5, 881, 983-4 S-O '24
Southern California Edison company's 220-kv. system. H. Michener and others. Elec W 84:937-8 N 1 '24
Stability of long transmission lines. C. D. Gibbs. Elec W 85:143-5 Ja 17 '25
Stored mechanical energy in transmission systems. J. P. Jollyman. Am Inst E E J 44:948-50 S '25
Superpower transmission; economies and limitations of the transmission system of extraordinary length. P. H. Thomas. Am Inst E E J 43:3-17 Ja '24; Discussion. 43:876-7, 880-1, 980-1 S-O '24
La transformation de la ligne électrique de Big Creek à Los Angeles, pour porter la tension de 150 000 à 220 000 volts. il Génie Civil 83:599-600 D 15 '23
Transmission at 220 kv. on the Southern California Edison system; a symposium. H. Michener and others. il diags Am Inst E E J 43:901-8, 1025-30 O-N '24; Discussion. 44: 510-13 My '25
Transmission at 220,000 volts. H. A. Barre. il diag map Elec W 83:515-18 Mr 15 '24
La transmission et la distribution de l'énergie électrique. Génie Civil 85:258 S 20 '24
Transmission line design. F: K. Kirsten. charts Wash U Eng Exp Sta Bul 17:1-110 '23
Transmission line stability; analytic deduction of the condition for stable operation for transmission lines. C. L. Fortescue. Am Inst E E J 43:373-8 Ap '24
Transmission of electric power from Norway to Denmark. A. R. Angelo and W: Rung. Engineering 118:114 Jl 18 '24
Transmission problems. A. M. Taylor. diags Electrician 92:128-31 F 1 '24; Same cond. Elec R (Lond) 94:432-3, 470-2 Mr 14-21 '24
Transmission problems of the future. H. J. Ryan. Elec W 85:1205-6 Je 6 '25
Transmission stability; analytical discussion of some factors entering into the problem. C. L. Fortescue. diags Am Inst E E J 44: 951-61 S '25
Transmission system of the Southern California Edison company. H. A. Barre. il map Elec J 22:257-60 Je '25
220-kv. transmission transients and flash-overs. R. J. C. Wood. il diags Am Inst E E J 44:1211-18 N '25
Underground transmission at 66 kv. Elec W 83:591 Mr 22 '24
Unusual electrical features found in Trenton Channel station. il diags Elec W 85:238, 247-52 Ja 31 '25

See also Corona (electricity); Electric cables; Electric conductors; Electric conduits; Electric distribution; Electric driving; Electric lines; Electric plants; Electric plants—Interconnection; Electric power; Electric radiation; Electric switches; Electric waves; Hydroelectric plants; Poynting's law; Voltage regulation; *also* International conference on large high tension electric systems

Cost

No Northeast hydro growth after 1930. Elec W 83:688 Ap 5 '24

Tables, calculations, etc.

Instant Heavisidion—a kinematic computing device for long transmission lines. V. Karapetoff. il diags Gen Elec R 28:746-51 N '25
Over-voltage on transmission systems due to dropping of load. E. J. Burnham. il diag Am Inst E E J 44:579-87 Je '25; Same. Gen Elec R 28:509-19 Jl '25; Discussion. Am Inst E E J 44:1022 S '25
Transmission losses and low power factor. P. C. Shults. chart Elec W 86:175-6 Jl 25 '25
Vergleich von drehstromkabeln verschiedener ausführungsformen. R. Dieterle and G. Eggeling. Elektrotech Zeit 45:1366-8 D 11 '24

ELECTRIC truck industry
1924 a good year for the electric truck industry. W: V. Brandt. N E L A Bul 12: 130 F '25

Advertising

Full-page newspaper advertising to reach one prospect; the Ward electric company. Ptr Ink 125:49-50 N 8 '23

Service

Hartford electric truck service plan. Elec W 84:849-50 O 18 '24
Largest electric truck service station in the world. C: R. Skinner, jr. il N E L A Bul 11: 563-5 S '24
Servicing of electric trucks. Elec W 83:502-3 Mr 8 '24

ELECTRIC trucks
Advantages of the electric vehicle. E. M. Watts. Elec W 85:665-8 Mr 28 '25
Bakery deliveries with electric trucks. L. M. Branch. il Elec J 21:134-5 Ap '24
Battery trucks and Edison cells. Elec R (Lond) 95:926-8 D 19 '24
Cheap delivery makes a dent in high-cost-of-living. R. Zindle. il map Forbes 16:326-30 Je 15 '25
Electric motor truck, selection of motor vehicle equipment, its operation and maintenance. E: E. La Schum. 307p U. P. C. book co. '24
Electric transportation and the central station; report of Pacific coast electrical association. J Elec 54:417-26 Je 1 '25
Electric truck service makes progress at Hartford. il Elec W 83:814 Ap 26 '24
Electric truck—the super-appliance; report of committee of Pacific coast electrical association. diags J Elec 52:397-402 Je 1 '24
Electric truck with novel battery suspension. il Sci Am 129:418 D '23
Electric trucks for refuse collection. R. K. Merrick. Pub Works 55:123-4 Ap '24

ELECTRIC trucks—*Continued*
Electric trucks for store door delivery of freight. R. Macrae. Gen Elec R 27:793-4 D '24
Electric trucks invading the automobile city. Elec W 83:786 Ap 19 '24
Electric vehicles invade Detroit, the home of the gasoline car. il N E L A Bul 11:749-50 D '24
Electrics in central-station service. il Elec W 84:365-7 Ag 23 '24
Die elektromobile auf der automobilausstellung 1924 zu Berlin. W. Rödiger. il diags Elektrotech Zeit 46:178-84 F 5 '25
Les essais controlés de véhicules électriques à accumulateurs (octobre 1924). C: Dantin. il diags Génie Civil 85:589-96 D 27 '24
Features of electric truck motors. C. A. Atwell. il Elec W 85:453-6 F 28 '25
General design and urban performance of electric trucks. J. G. Carroll. il diags Soc Auto Eng J 14:23-9; Discussion. 29-30+ Ja '24
Icing freight cars with electric trucks. il N E L A Bul 12:328 My '25
Leoni light electric vehicle follows gasoline truck practice. il Automotive Ind 53:342-3 Ag 27 '25
Modern electric truck. Sibley J 37:102, 109 My '23
Motors for commercial electric vehicles. C. A. Atwell. Elec J 21:3[illegible]-5 Ja '24
New era for city transportation. R. L. Fitzgerald. N E L A Bul 11:671-5 N '24
1925 electric truck show reveals advances in design. P. M Heldt. il diags Automotive Ind 52:574-5 Mr 26 '25
Survey of the field for the electric truck. R. Zindle. Gen Elec R 28:176-7 Mr '25
Die technische und wirtschaftliche bedeutung des elektromobils. H. S. Meyer. diag Elektrotech Zeit 46:1213-15 Ag 13 '25; Abstract (Heat applications and material handling). Elec W 86:809 O 17 '25
Use of electric trucks by central stations. il N E L A Bul 12:250-1 Ap '25
User's appraisal of electric trucking. L. M. Branch. map Elec W 86:415-16 Ag 29 '25
Wahl und grössenbestimmung der elektrowagen-batterien. il Zeit Ver Deutsch Ing 69:965-7 Jl 18 '25
Walker electric vehicles. il Ind Management (Lond) 10:363-4 D 27 '23
Why American railway express uses 1,800 electric trucks. R. E. M. Cowie. Elec W 83: 1084-5 My 24 '24

See also Electric truck industry; Motor trucks

Accounting

Keeping the electric truck sold; improper accounting methods. L. F. Boerner. Elec W 86:555-6 S 19 '25

Cost of operation

Advantages of the electric vehicle. E. M. Watts. Elec W 85:665-8 Mr 28 '25
Electric truck—the super-appliance; report of committee of Pacific coast electrical association. diags J Elec 52:399-402 Je 1 '24
Electric trucks overcome Cincinnati hills. il Elec W 86:859-60 O 24 '25
Experience with electric trucks. Elec W 86: 275-6 Ag 8 '25
New era for city transportation. R. L. Fitzgerald. N E L A Bul 11:671-5 N '24

Gearing

Machining a transmission housing. W. R. Graham. diags Mach 31:135-6 O '24
Running-in machine for transmission gears. W. R. Graham. diags Mach 31:563-4 Mr '25

Repair

Routine running repair lengthens life of electric trucks. P. Karst. il Elec W 84:748 O 4 '24

Specifications

American electric truck specifications; tabulation. Automotive Ind 50:422-3; 52:396 F 21 '24, F 26 '25

ELECTRIC trucks, Industrial
Application of the formulas for computing economies of labor-saving equipment. G: Langford, jr. il Mech Eng 47:408-10 sec 2 My '25
Around the shop with the electric mule. H. S. Riggs. il diags Mach 30:438-41 F '24
Complete series of industrial trucks. il Ry Mech Eng 98:305-6 My '24
Electric industrial trucks and tractors as revenue builders for central stations; report of committee of Pacific coast electrical association. J Elec 52:402-4 Je 1 '24
Electric trucks and tractors for transporting materials. H. J. Payne. il Textile World 68:1347+ S 5 '25
Electric trucks and tractors in process work. H. J. Payne. il Chem & Met Eng 32:695-9 Ag '25
Electric trucks in the locomotive repair shop. H. J. Payne. il Ry Mech Eng 99:719-21 N '25
Electric trucks in transfer service. il Ry Age 79:235-7 Ag 1 '25
Die elektromobile auf der automobilausstellung 1924 zu Berlin. W. Rödiger. il diags Elektrotech Zeit 46:178-84 F 5 '25
Elwell-Parker electric lift tractor. Am Mach 62:865 My 28 '25; Elec Ry J 65:824 My 23 '25; Cassier's Ind Management 12:340 Je '25; Ry Age 79:151-2 Jl 18 '25
Elwell-Parker elevating and stacking tructor. il Am Mach 61:865 N 27 '24; Ry Age 77:1079 D 13 '24
Elwell-Parker tructor, type-ER. il Am Mach 63:371-2 Ag 27 '25; Elec Ry J 66:333 Ag 29 '25; Blast F & Steel Pl 13:380 S '25
Four-wheel drive lift truck known as Tec uplift. il Iron Age 112:1726 D 27 '23; Chem & Met Eng 30:157 Ja 28 '24; Ry Mech Eng 98:125-6 F '24
Handles 10 times the unit load. F. B. Scott. Factory 35:224-5 Ag '25
Handling by electric truck. H. B. Cleveland. il Iron Age 114:1073-4 O 23 '24; Same. N E L A Bul 11:684-5 N '24
How electricity cuts costs in industrial plants. H. J. Payne. il Forbes 16:335-7+ Je 15 '25
Lift truck for heavy dies and casting; the Hi-Lo tructor. il Iron Age 113:154 Ja 10 '24; Ry R 74:125 Ja 12 '24; Chem & Met Eng 30:636 Ap 21 '24
Machine-shop transportation with industrial electric trucks. H. J. Payne. il Am Mach 62:803-4 My 21 '25
Material-handling pay-roll reduced 75%. M. C. Maxwell. il Factory 34:594-8 Ap '25
Moog hand-operated one-axle accumulator tractor. diag Cassier's Ind Management 12: 368 Jl '25
One hour's work of an electric lift truck in an industrial plant. il Ind Eng 81:609-10 D '23
Power trucks that save handling time. il Am Mach 62:317 F 19 '25
Reduction saving $48,000 in materials handling costs. F. C. Eibell. il Ind Management 69:312-15 My '25
Safe use of hand and power trucks. G: J. Schirch. il Nat Safety N 10:27-8+ O '24
Savings brought about by the use of electric trucks. il Management & Adm 8:82 Jl '24
Special trucks that save the operator's time. W: Hartman. Factory 32:358+ Mr '24
Storage battery trucks save time and labor. il diag Elec Ry J 65:453 Mr 21 '25
Study savings made by trucks in foundry. il Foundry 51:941-3 D 1 '23; Same. Iron Tr R 74:479-81 F 14 '24
Trends in handling materials. F. E. Gooding. il Ind Eng 82:82-5 F '24
Trucks pay for themselves in six months. H. B. Cleveland. il Elec W 84:1366 D 27 '24
Westinghouse shop express system. S. M. Lowry. il plan Management & Adm 10:7-10, 75-8 Jl-Ag '25
Would electric trucks help you? H. J. Payne. il Brick & Clay Rec 67:256-9 Ag 18 '25

ELECTRIC trucks, Industrial—*Continued*

Lubrication

Essentials of industrial truck and tractor lubrication. A. F. Brewer. il diag Ind Management 70:311-12 N '25

ELECTRIC units

Kilowatt, kilovoltampere, blindkilowatt, blindkilovoltampere, kilosin, kilocos. F. Emde. Elektrotech Zeit 45:1053-4 O 2 '24

Kw. or kva.? Elec W 86:203-4, 368 Ag 1, 22 '25

ELECTRIC utilities

Bonbright prize awards. 63p Bonbright & co., inc., New York '25

Giant power; large scale electrical development as a social factor. Ann Am Acad 118:1-175 Mr '25

Mitchell, the man who saves millions for investors. B. C. Forbes. il Forbes 16:315-18+ Je 15 '25

Political ownership and electric light and power industry. 262p National electric light assn., New York '25

Problems and opportunities of utilities. S: Insull. Elec W 83:6-8 Ja 5 '24

Problems of the industry that come with growth. J: F. Gilchrist. Elec W 84:741-2 O 4 '24

Public electricity undertakings; abstracts. W. Hammer. Elec R (Lond) 95:37-8 Jl 4 '24; Electrician 92:756 Je 20 '24; Discussion. Elec R (Lond) 95:38 Jl 4 '24; Electrician 92:756-7 Je 20 '24

Serving Buffalo with electric power. C: R. Huntley. il Pub Serv Management 36:76-8 Mr '24

Some thoughts with reference to our industry. J: F. Gilchrist. N E L A Bul 12:657-60 O '25

Super-power and its relation to progress and prosperity. L. B. Andrus. map Munic & Co Eng 67:126-34 S '24

Triumphs of 1923-1924. W. H. Johnson. Elec W 83:1076-7 My 24 '24

See also Electric industries; Electric lines; Electric plants (central stations); Electric rates; Electric service, Rural; *also* names of companies, e.g. Alabama power company; Commonwealth power corporation; General gas and electric corporation; Great Western power company of California; Mountain states power company; Northern states power company; Southern California Edison company

Accounting

Accountant's relation to rate cases. H. M. Brundage. N E L A Bul 12:499-504 Ag '25

Accounting service as an executive aid. C: L. Edgar. Elec W 85:1073-4 My 23 '25

Accounting sessions of the N.E.L.A. convention, 1924. Elec W 83:1071-5 My 24 '24

Accounting sessions of the N.E.L.A. convention, 1925. Elec W 85:1346-8 Je 20 '25; J Elec 55:22-4 Jl 1 '25

Analyzing utility construction costs. P. O'Moore. Elec W 86:168-70 Jl 25 '25

Billing without bills. Elec W 85:468 F 28 '25

Customer accounting without ledgers. Elec W 86:860 O 24 '25

Engineer's responsibility in fixing charges. L: R. Lee. Power Pl Eng 29:397-9 Ap 1 '25

Results of bookkeeping without books; machine-billing method. Elec W 84:24-5 Jl 5 '24

Serving the people through accounting. W. P. Little. Pub Serv Management 38:168-9 Je '25

Short-cutting customers' accounting. P. H. Myers. Elec W 83:583-4 Mr 22 '24

Utility accounting; report of committee of Pacific coast electrical association. J Elec 52:417-19 Je 1 '24

See also Electric rates

Bibliography

Accounting bibliography of N. E. L. A., 1907-1923. F. W. Herbert. N E L A Bul 11:59-61 Ja '24

Advertising

Advertising for the central station. T. Watson. J Elec 51:330-2, 410-12; 52:10-14 N 1, D 1 '23, Ja 1 '24

Advertising the value of a utility's service. E. S. Hamblen. Elec W 85:521 Mr 7 '25

Advertising utility while public is friendly. Elec W 83:631-2 Mr 29 '24

Central Hudson company's co-operative better-home-lighting campaign. Elec W 84:125-6 Jl 19 '24

Chicago utilities win honorable mention at the recent exhibit of travel posters and books. il Elec Ry J 66:277-80 Ag 22 '25

Continuous utility advertising. J. C: Jordan. Elec W 85:865-6 Ap 25 '25

Develop a classified mailing list of prospects. J Elec 51:381 N 15 '23

Edison lamp works initiates campaign to better central-station public relations. Elec W 86:484-5 S 5 '25

Die elektrizitätswerke als stromverkäufer. G. Siegel. il Elektrotech Zeit (special no.) 46: 5-10 Mr 1 '25

How millions will learn the central station's story. il chart N E L A Bul 12:496-8 Ag '25; Elec W 86:363-5 Ag 22 '25

Out for the domestic business. L. L. Robinson. il Elec R (Lond) 94:824-7, 895-6 My 23-30 '24; Discussion. 94:946-7 Je 6 '24

Public utility explains itself to Canada. F. W. Johnson. Ptr Ink 132:89-90+ S 10 '25

Public utility in pictures. B. Moon. Pub Serv Management 36:108-9 Ap '24

Publicity and stock sales. C: H. Peirson. Elec W 85:1128-30 My 30 '25

Report of Pacific coast electrical association. J Elec 54:511-20 Je 1 '25

Utility advertising a community service. Elec W 85:1087 My 23 '25

Utility companies spend little for advertising. Elec W 84:1165 N 29 '24

What a public utility should advertise. R. S. Merrill. Elec W 82:976-7 N 10 '23

See also Electric industries—Advertising

Claims

Investigation must be thorough. S. G. Seabrook. Aera 13:37-41 Ag '24

Complaints

Handling voltage complaints. Elec W 85:773-4 Ap 11 '25

Consolidation

Consolidation in the electric utility industry. J: L. Stewart. Ann Am Acad 118:149-62 Mr '25

Important mergers of central station systems during 1924. Elec W 85:27-9 Ja 3 '25

See also Electric utilities—Indiana; Electric utilities—New York (state)

Contracts

Features of an interconnection contract. Elec W 82:1263-5 D 22 '23

Employees

Better customer relations through our employees; report of Pacific coast electrical association. J Elec 54:390-7 Je 1 '25

Duquesne light company trains engineers. R. L. Kirk. Elec W 84:1354-6 D 27 '24

Manual aids district office employees in relations with consumers. J Elec 54:321-3 My 1 '25

Women and public utilities. M. S. Fletemeyer. N E L A Bul 11:691-2+ N '24

See also Electric substations—Operators

Equipment

Electrics in central-station service. il Elec W 84:365-7 Ag 23 '24

Engineer does the buying in the electrical field. il Sales Management 8:388-90 Mr 7 '25

Gas trucks in central-station service. il Elec W 83:721-4 Ap 12 '24

Maintenance and operation of automotive equipment; report of committee of Pacific coast electrical association. il J Elec 52: 420-1 Je 1 '24

ELECTRIC utilities—*Continued*

Finance

American power and light growth. P. W. Garrett. Elec W 84:388-9 Ag 23 '24
Annual reports of six electric utilities are presented to stockholders. J Elec 54:376-8 My 15 '25
Arizona power company's new structure. P. W. Garrett. Elec W 84:235 Ag 2 '24
Capital charges in municipal electricity undertakings. Elec R (Lond) 96:571 My 8 '25
Commonwealth power corporation's plan. P. W. Garrett. map Elec W 84:487+ S 6 '24
Consolidated gas, electric light & power co. of Baltimore. il Pub Serv Management 36: 121-2 Ap '24; Elec W 83:488 Mr 8 '24
Consumption and revenue from domestic appliances. Elec W 86:228 Ag 1 '25
Electric utility financing. L. B. Breedlove. Bankers M 109:367-73 S '24
Electric utility holding companies. A. K. Baylor. Elec W 84:624-5 S 20 '24
Financial aspects of utility growth. A. L. Loomis. Elec W 83:31-2 Ja 5 '24
Financial structure of power and light companies. A. L. Loomis. Elec W 83:929-33 My 10 '24; Discussion. H. M. Edwards. 83:1236 Je 14 '24
Financial structures compared; differences between utilities and industrial firms. Elec W 86:493-4 S 5 '25
Financing expansion the big task. Pub Serv Management 39:5-7 Jl '25
Financing the American power future. I. W. Bonbright. Ann Am Acad 118:107-10 Mr '25
Forecasting line extension profits. W. A. Forbush. Elec W 86:453-4 S 5 '25
Interesting record of utility financing. J: D. McKee. Elec W 84:288-9 Ag 9 '24
North American company's compactness. P. W. Garrett. map Elec W 84:437-8 Ag 30 '24
Place of the holding company. J: J. O'Brien. Elec W 85:27-30 Ja 3 '25
Relation of a public utility to the business cycle. H. B. Vanderblue and W: L. Crum. Harvard Business R 2:409-20; 3:8-19 Jl, O '24
Revenue from commercial lighting consumers. Elec W 85:1086-7 My 23 '25
Review of the development of the electric light and power industry 1920-30. D: Cowan. Elec W 85:1397-9 Je 27 '25; Same. Can Eng 49:294-5 S 8 '25; Excerpts. Power 62:16-18 Jl 7 '25
Some reflections on the amazing rise of the electric light and power industry. S: Insull. N E L A Bul 12:277-83+ My '25; Excerpts. Elec W 85:782 Ap 11 '25
Steam power companies. Moody's Inv Serv 17:61-2 F 19 '25
Super power—some financial considerations. S: Insull. N E L A Bul 11:368-71 Je '24
What radio means to the central station. D: Sarnoff. Elec W 84:1094-5 N 22 '24
Wider margin of profit needed on electrical appliances. J. F: Gilchrist. Elec W 83:1181-2 Je 7 '24

See also Electric utilities—Securities; Public utilities—Finance

Government ownership

Association opens campaign to defeat Bone bill. J Elec 52:468-9 Je 1 '24
California water and power act; text. J Elec 53:177-9 S 1 '24; Discussion. 53:205-7, 268-9 S 15, O 15 '24
Case of the people of California vs. the Water and power act. J Elec 53:169-71 S 1 '24
Comments on the proposed California Water and power act. A. E. Boynton. J Elec 53:238-41 O 1 '24
Oregon may have public ownership bill. Power 60:480 S 16 '24
State versus private management of power plants. A. T. Hadley. Engineering 118:209-11 Ag 8 '24; Same. Elec W 84:165-7 Jl 26 '24; Same. J Elec 53:165-9 S 1 '24; Same. N E L A Bul 11:613-17 O '24; Abstract. Power 60:72 Jl 8 '24

See also Ontario—Hydroelectric power commission

Law

Les interruptions de courant par le fait d'un concessionnaire de distribution. A. Mestre. Génie Civil 86:409-10 Ap 25 '25
Le nouveau régime des servitudes légales en matière d'installation des réseaux électriques. A. Mestre. Génie Civil 87:333-4 O 17 '25
Recent court decisions. Published in weekly numbers of Electrical world
Le régime nouveau des permissions de voirie relatives aux distributions d'énergie électrique. A. Mestre. Génie Civil 86:265-7 Mr 14 '25

Management

Advance schedule for sales and advertising gets results. H. C. Thuerk. Elec W 82:1329-30 D 29 '23
Billion dollar business available; revenue possibilities in residence lighting. M. Luckiesh. Elec W 86:737-9 O 10 '25
Boston Edison illuminating engineering division. Elec W 83:1242 Je 14 '24
Branch-office merchandise stock control. C. O. Dunten. il Elec W 85:724-5 Ap 4 '25
Central station load-building appliance campaign. A. Strauch. J Elec 54:243-4 Ap 1 '25
Central-station selling in small towns. E. L. Olds. il Elec W 84:1153-5 N 29 '24
Commercial national section discusses load increase. G: W. Barker. J Elec 53:399-405 D 1 '24
Commercial trends of 1923 and the future outlook. H. T. Sands and others. il Elec W 83:47-53 Ja 5 '24
Committee form of administration for large company; Southern California Edison company. H. E. Barden. Elec W 83:1131-3 My 31 '24
Co-ordinating responsibilities of engineer and purchasing agent. Elec W 84:371-2 Ag 23 '24
Cultivation of, and distribution for, the domestic load. A. Lindsay. Inst E E J 63:25-8 D '24
Development of residence service and profitable sales of merchandise appliances and service. N. T. Wilcox. N E L A Bul 11:241-3 Ap '24
District sales competition stimulates activity. A. C. Crandall. Elec W 85:1086 My 23 '25
Efficient handling of meter orders. R. E. Naylor. il Elec W 85:707-10 Ap 4 '25
Fields for power sales development. E. W. Lloyd. il diag Elec W 84:518-20 S 13 '24
Furtherance of good lighting by American central stations. J: W. Lieb. Illum Eng Soc 19:622-37 S '24
Getting the maximum return from transportation equipment. J. H. Macbeth. Elec W 86: 124-5 Jl 18 '25
Handling connect and disconnect orders. A. W. Isenhart. Elec W 84:75-6 Jl 12 '24
House wiring increases residential revenue 353.5 per cent. L. T. White. Elec W 85:210-11 Ja 24 '25
How to sell illumination. C. R. Tracy. il Elec W 86:787-9 O 17 '25
Important rôle of merchandising. A. Williams. Elec W 84:628 S 20 '24
Increasing residential revenue. il Elec W 84: 799-800 O 11 '24
Increasing revenue per dollar invested. J: F. Gilchrist. Elec W 86:61-2 Jl 11 '25
Increasing the residential lighting load. il Elec W 86:892-6 O 31 '25
Industry run by men conscious of their duty and responsibility. J. F. Owens. Pub Serv Management 38:175-6 Je '25
Initial home-lighting campaign. W. T. Ryan. Elec W 85:1088 My 23 '25
Installing customers' services. Elec W 84: 116-18 Jl 19 '24
Keeping dollars at work. Elec W 85:658-60 Mr 28 '25

ELECTRIC utilities—Management—*Continued*
Making street-lighting business more desirable. A. M. Perry. Elec W 83:958-64 My 10 '24
Management charts for central stations. H. A. Snow. il Elec W 84:12-16 Jl 5 '24
Merchandising policies and results at Providence. A. B. Lisle. Elec W 82:975-6 N 10 '23
Merchandising practice for industrial power department. il Elec W 85:413-14 F 21 '25
More and better business campaign. il Elec W 86:22-3 Jl 4 '25
Neglected commercial opportunities. J. E. Davidson. Elec W 86:413-14 Ag 29 '25
New-business plans outlined a year in advance. Elec W 86:177 Jl 25 '25
New form of organization for Northern Illinois. chart Elec W 83:683 Ap 5 '24
Out for the domestic business. L. L. Robinson. il Elec R (Lond) 94:824-7, 895-6 My 23-30 '24; Discussion. 94:946-7 Je 6 '24
Philadelphia commercial methods. C: J. Russell. il Elec W 83:951-5 My 10 '24
Philadelphia electric company. J. B. McCall. il chart Elec W 83:925-8 My 10 '24
Power company as appliance retailer. W. S. Vivian. N E L A Bul 10:728-30 D '23
Problem of a selling service. C: J. Russell. Elec W 83:1085-6 My 24 '24
Die restlose ausnützung der bayerischen wasserkräfte. O. v. Miller. Elektrotech Zeit 46: 1-6 Ja 1 '25
Sale of electricity; some suggestions for developing the load. R. Hardie. Elec R (Lond) 96:754 My 8 '25
Sales campaigns build load and good will. A. C. Crandall. il Elec W 85:827-9 Ap 18 '25
Sealing safety service-entrance switches. Elec W 86:945-6 N 7 '25
Selling electric power—how Birmingham got 650 new consumers in a month; abstract with discussion. W. C. Y. Anderson. Electrician 92:490-1 Ap 18 '24; Elec R (Lond) 94:674 Ap 25 '24
Selling more light to the small store. J. Daniels. il plan Elec W 85:510-12 Mr 7 '25
Selling $22 worth of appliances to each lighting customer. J Elec 54:170-1 Mr 1 '25
Some notes on increasing the sales of electricity. J. G. Thain. Elec R (Lond) 94:915-16 Je 6 '24
Staging a successful illumination sales campaign. H. H. Allison. il J Elec 52:165-8 Mr 1 '24
This company has pioneered for forty-two years. J. Heywood. il Forbes 14:715-18+ S 15 '24
Time study in meter work betters service. F. H. Pumphrey. il Elec W 84:120-1 Jl 19 '24
Utilities and the ice business; advantages of combining the two businesses. A. J. Authenreith. il Elec W 86:844-6 O 24 '25
Utilities' part in selling refrigerators. H. E. Young. Elec W 86:896-8 O 31 '25
Why a central station sells radio. Elec W 84: 1164-5 N 29 '24

See also Billing; Electric meters; Electric utilities—Accounting; Electric utilities—Employees; Electric utilities—Service

Municipal ownership

Committee of National utilities commissioners against public ownership. Elec W 83: 1149 My 31 '24
Los Angeles experiment in municipal power. F. G. Tyrrell. J Elec 52:311-16 My 1 '24; Discussion. 52:346-9, 478-9 My 15, Je 15 '24

See also Electric plants, Municipal

Public relations

Accounting and public relations. E. A. Davis. Elec W 82:1228-9 D 15 '23
Activities of the Consumers' service bureau; report of committee of Pacific coast electrical association. J Elec 52:415-17 Je 1 '24
Alabama power company wins Forbes public service cup. J. Heywood. il Forbes 16:323-5+ Je 15 '25
Better customer relations through our employees; report of Pacific coast electrical association. J Elec 54:390-7 Je 1 '25
Better public relations by telephone. R. F. Bonsall. J Elec 53:441 D 15 '24; Same cond. Elec W 84:1216 D 6 '24
Central station's biggest job. P. L. Thomson. N E L A Bul 11:662-5 N '24
Collections and public relations. S. A. Bialecki. Elec W 83:99-100 Ja 12 '24
Collections and public relations. A. B. Wollaber. Elec W 86:842-3 O 24 '25
Common sense in public relations. R. E. Smith. J Elec 53:52-5 Jl 15 '24
Courteous service club movement. R. A. Balzari. J Elec 52:45-6 Ja 15 '24
Engineer's responsibility in public relations. B. A. Wollaber. il Elec W 84:787-9 O 11 '24
Hartford, Conn., electric light company plays host to graduating class of the Hartford high school. il N E L A Bul 10:731-3 D '23
Leaving meters connected brings good will. Elec W 84:1113 N 22 '24
Michigan's experiment in building good public relations is highly successful. A. Fischer. N E L A Bul 11:723-7 D '24
Practical public relations. O. L. Mackell. J Elec 52:55 Ja 15 '24
Public must be sold. B. C. Forbes. Forbes 16: 532+ Jl 15 '25
Public relations featured at Northwest convention. B. Snow. il J Elec 53:45-9 Jl 15 '24
Public relations from the domestic angle; report of Pacific coast electrical association. J Elec 54:518-19 Je 1 '25
Public relations from the woman's standpoint; report of Pacific coast electrical association. J Elec 54:530-4 Je 1 '25
Public relations sessions of the N.E.L.A. Elec W 85:1335-8 Je 20 '25; J Elec 55:11-16 Jl 1 '25; N E L A Bul 12:432-4 Jl '25
Report of public policy committee. M. J. Insull. N E L A Bul 11:440-6 Jl '24; Abstract. Elec W 83:1046-7 My 24 '24
Report of the N.E.L.A. public policy committee. Elec W 85:1334 Je 20 '25; J Elec 55:10-11 Jl 1 '25; N E L A Bul 12:408-9 Jl '25
Simplifying transactions with the public. C. M. Knapp. il Elec W 84:692-3 S 27 '24
Suggestions for improving public relations. A. P. Singer. Elec W 86:511 S 12 '25
What a continuous residence survey has done. W. H. Fischer. Elec W 82:1178-80 D 8 '23

Purchasing

Proper handling of obsolete scrap material and equipment; report of Pacific coast electrical association. J Elec 54:520-9 Je 1 '25

Rates

See Electric rates

Records

Improved customers' record system. M. Barton. chart Elec W 86:514-17 S 12 '25

Regulation

Governor Pinchot condemns state regulation of utilities. J Elec 55:68 Jl 15 '25
Home rule versus commission regulation. L. B. Andrus. Elec W 85:349-50 F 14 '25
Is giant power a state or federal utility? A. Bettman. Ann Am Acad 118:168-75 Mr '25
National electricity supply. G: V. Twiss. Electrician 94:88-90, 116-18 Ja 23-30 '25
Power and interstate commerce. P. P. Wells. Ann Am Acad 118:163-7 Mr '25
Regulation of the power industry. Bradstreet's 53:402 Je 20 '25
Shall the state go into the power business in Washington? text of the Erickson bill. J Elec 52:243-7 Ap 1 '24
Standards for electric service. U S Bur Stand Circ 56:1-338; Bibliography. 339-41 '23
State versus federal regulation. H. Hoover. N E L A Bul 12:427-31+ Jl '25; Same. J Elec 55:43-7 Jl 15 '25; Same cond. Elec W 85:1309-12 Je 20 '25; Excerpts. Power 61: 1009 Je 23 '25; Manuf Rec 87:91-2 Je 25 '25; Bus Transportation 4:405 Ag '25

ELECTRIC utilities—Regulation—*Continued*
Why the public interest requires state, rather than federal regulation of electric public utilities. H. Hoover. N E L A Bul 12:683-7 N '25

See also Electric power—Interstate problem

Safety measures

Accidents reduced 75 per cent by safety engineering on the system of the Texas power & light company. Elec W 83:682-3 Ap 5 '24
Accidents slump when safety work is revived. G. A. Stebbins. il Nat Safety N 12:31-3 N '25
Company organizations for accident prevention; report of Pacific coast electrical association. J Elec 54:428-9 Je 1 '25
When the operating chief ordered "stop accidents." R. S. Gilfillan. il Nat Safety N 12: 9-11 S '25

Salesmen

Ideal power salesman. H. H. Holding. Elec W 85:1034-5 My 16 '25

Securities

Bankers' shares of Edison companies. Elec W 83:1007 My 17 '24
Customer ownership advances in 1924. Elec W 85:1375-6 Je 20 '25
Customer-ownership at Cincinnati. Elec W 83: 837-8 Ap 26 '24
Customer ownership growing fast. F: W. Herbert. **Elec W 83:53-4 Ja 5 '24**
Customer-ownership sales. Elec W 85:44 Ja 3 '25
Edison company seeks 100,000 owners in unique club sales plan. J Elec 55:242 O 1 '25
Electric financing totals $649,998,000 during the first five months of the present year. Elec W 85:1244-5 Je 6 '25
Electric light and power maturities in 1925. Elec W 85:80 Ja 3 '25
Electric light and power securities compared with industrials and railroad securities. N E L A Bul 11:384 Je '24
Electric light and power securities for savings banks' investment. M. S. Sloan. N E L A Bul 12:706-9 N '25; Excerpt. Elec W 86: 881 O 24 '25
Electric securities. L. K. Thorne. Comm & Fin 13:63-4 Ja 9 '24
Four unlisted utility bonds attractive in the present market. Moody's Inv Serv 16:304 Ag 7 '24
Great American pyramids. Elec Ry J 65:909 Je 6 '25
How to tell a sound public utility bond. P. W. Garrett. il Am Bankers Assn J 17:487-9+ F '25
Opportunities for investors. R. V. Sykes. Forbes 13:590-1; 16:402+ F 16 '24, Je 15 '25
Publicity and stock sales. C: H. Peirson. Elec W 85:1128-30 My 30 '25
Reaching the stockholder; report of Pacific coast electrical association. J Elec 54:516-18 Je 1 '25
Record of electric light and power preferred stocks. Elec W 84:136 Jl 19 '24
Selling securities to public a half job; N.E.L.A. reports. Elec W 83:1056-7 My 24 '24
Setting a stock sales record. J: T. Bartlett. J Elec 52:121-3 F 15 '24
State and the investor. C. Donaldson. Analist 23:342+ Mr 17 '24
Stock and bond quotations of electric light and power and manufacturing companies. Published in weekly numbers of Electrical world
Stock sales show public confidence in utility. H. E. Weeks. Elec W 85:934 My 2 '25
Utility finance lauded at N.E.L.A. convention. Elec W 85:1337-8 Je 20 '25; N E L A Bul 12:419-20 Jl '25
Utility financing during 1923 establishes record. D: C. Johnson. Elec W 83:35-7 Ja 5 '24
Utility financing during 1924. P. W. Garrett. Elec W 85:11-13 Ja 3 '25

Service

Connecting meters within eight hours. J. H. Thomas. Elec W 82:1126-7 D 1 '23
Consulting service for power customers. J. R. Halladay. diags Elec W 85:932-3 My 2 '25
Electric range maintenance costs. A. H. Kruel. J Elec 53:17-19 Jl 1 '24; Abstract. Elec W 83:1340-1 Je 28 '24
Electric refrigerator service costs. Elec W 86:24 Jl 4 '25
Good service proves the best advertising. S. M. Sheridan. Elec W 83:1081-2 My 24 '24
Handling trouble calls within half hour. J. T. Dysart. il Elec W 85:565-6 Mr 14 '25
Improved customers' record system. M. Barton. chart Elec W 86:514-17 S 12 '25
Lighting service an asset. C. B. Regar and others. Illum Eng Soc 20:871-903 O '25
Lighting service department. D. J. Finn. Elec W 86:943-5 N 7 '25
Low-voltage protection as a source of trouble. J. A. Vanderpoll. diag Elec W 84: 1111-12 N 22 '24
Making friends by rapid trouble shooting. C: F. Stuart. Elec W 84:225 Ag 2 '24
Motor service for power users; Baltimore company carries a stock of motor equipment. R. C. Niles, jr. il Elec W 85:519-20 Mr 7 '25
Northern states customers' service bureau. il Elec W 84:798 O 11 '24
Problem of appliance service costs. T. E. Wilson. Elec W 85:274-5 Ja 31 '25
Range service at a cost of 90 cents a year. Elec W 84:176-7 Jl 26 '24
Routing service calls and checking performance. G. A. Doeller. Elec W 85:352 F 14 '25
Running customer's service. J. G. Pickett, jr. il diags Elec W 85:822-4 Ap 18 '25
Service economies for power customers. R. H. Silbert. Elec W 84:425-6 Ag 30 '24
Service wagons help to keep appliances in use. il Elec W 84:177-8 Jl 26 '24
Too much service on appliances. J. P. Collopy. Elec W 83:1259-60 Je 14 '24

Show rooms

Ample salesroom facilities for central station. il Elec W 85:624 Mr 21 '25
Electrical exhibitions and showrooms. il Elec R (Lond) 97:631, 672-4 O 16-23 '25

Statistics

Financial gains in 1923. Elec W 83:200 Ja 26 '24
Fluctuating statistical standards of public utility operations. H. B. Vanderblue and W: L. Crum. charts J Land & Pub Util Econ 1:138-51 Ap '25

Storehouses

Industrial site effects concentration of supplies; San Joaquin light & power corporation operates efficient supplies. D. P. Mason. il diags plan J Elec 54:134-7 F 15 '25
New million-dollar shops of the Southern California Edison company. H. W. Tice. il J Elec 54:275-9 Ap 15 '25
Utility storeroom and shops. W. R. Frampton, G. E. Decker and W. J. McCullough. il plan Elec W 85:1021-5 My 16 '25

Stores systems

Proper handling of obsolete scrap material and equipment; report of Pacific coast electrical association. J Elec 54:250-9 Je 1 '25

Taxation

Comparative tax burdens in 1913 and 1923. Elec W 86:599-600 S 19 '25

Valuation

Appraisals based on number of meters connected. R. B. Sleight. Elec W 83:1322-3 Je 28 '24

British Columbia

Resumé and a forecast of commercial activity. J Elec 54:92-3 F 1 '25

ELECTRIC utilities—*Continued*

California

California water and power act overwhelmingly defeated by 431,602 votes. J Elec 53: 376; 54:28 N 15 '24, Ja 1 '25

California water and power act; text. J Elec 53:177-9 S 1 '24; Discussion. 53:205-7, 268-9 S 15, O 15 '24

Case of the people of California vs. the Water and power act. J Elec 53:169-71 S 1 '24

Comments on the proposed California Water and power act. A. E. Boynton. J Elec 53:238-41 O 1 '24

Data on operation of twelve largest California electric utilities. J Elec 55:146 Ag 15 '25

How the power company aids farm land settlement. A. C. Joy. il J Elec 52:159-61 Mr 1 '24

No saturation in California; an interview with S. M. Kennedy. Elec W 86:689-90 O 3 '25

Reintroducing the proposed California $500,000,000 socialistic venture. J Elec 52:317-19 My 1 '24

Some economic aspects of the Great Western-San Joaquin merger. G. C. Earl. il J Elec 54:4-7 Ja 1 '25

England

Birkenhead district. A. J. Poe. Electrician 93:471 O 24 '24

Developments at Stafford. il Electrician 93: 417-18 O 10 '24

Developments in Ashton-under-Lyne. il Electrician 93:589 N 21 '24

Electricity in Rochdale. il Electrician 93:701-2+ D 19 '24

Electricity in St Helens. il Electrician 93: 556-7 N 14 '24

Growth of the supply industry; abstracts. W. C. P. Tapper. Electrician 94:708-9 Je 19 '25; Elec R (Lond) 96:992-3 Je 19 '25

London electricity supply companies. Economist 100:743-4 Ap 18 '25

Position at Lincoln. W. E. G. Rippon. il Electrician 92:459 Ap 11 '24

Salford area. il Electrician 93:643-4 D 5 '24

Germany

Die künftige finanzwirtschaft der elektrizitätswerke. R. Haas. Elektrotech Zeit 45: 1187-90 O 30 '24

Great Britain

Are supply undertakings doing their utmost to develop the demand for electricity. W. H. Thickett. Electrician 94:720; Discussion. 720-1 Je 19 '25

Midland electric corporation for power distribution, limited, and other electric utility reports. Economist 100:615-20 Mr 28 '25

Provincial electricity supply companies. Economist 100:957-8 My 16 '25

Indiana

Indiana utilities in merger. map Elec W 84: 481 S 6 '24

Italy

See Electric plants (central stations)—Italy; Hydroelectric plants—Italy

Japan

Electricity supply in central Japan; progress and recuperation. map Elec R (Lond) 95: 604-5 O 24 '24

Michigan

Eleven millions on unified system. il Pub Serv Management 39:72-6 S '25

Middle Western states

Tornado spares transmission lines. il map Elec W 85:681-2 Mr 28 '25

New England

How Boston Edison anticipates needs of its territory. J. Heywood. il map Forbes 15:159-62 N 1 '24

New York (state)

Hylan fights power mergers. Elec W 86:83-5 Jl 11 '25

New York mergers approved. Elec W 86:183 Jl 25 '25

New York upstate companies draw closer. Elec W 83:1346 Je 28 '24

Ohio

Ohio's big undertakings. Elec W 85:368 F 14 '25

Ontario

See Ontario—Hydroelectric power commission

Pacific coast

Annual reports of six electric utilities are presented to stockholders. J Elec 54:376-8 My 15 '25

Electric service on the Pacific coast. F. A. Leach, jr. Elec J 22:252-3 Je '25

Regional review of the power resources for the Pacific coast states. A. H. Markwart and H. A. Barre. J Elec 53:127-32 Ag 15 '24

Scotland

Edinburgh and Leith. il Electrician 94:247 F 27 '25

Shanghai, China

Electricity in Shanghai. Engineering 117:645-6 My 16 '24; Elec R (Lond) 94:959-60 Je 13 '24

Sweden

Making of a leader in business world; Edström, head of General Swedish electric co. A. B. Sloane. il Forbes 14:603-5+ Ag 15 '24

United States

Achievements of electric utilities. W. H. Johnson. Elec W 83:923-4 My 10 '24

Achievements—past and future. F. T. Griffith. Elec W 85:1167-8 Je 6 '25

Electric light and power industry. F. T. Griffith. Elec J 22:239-42 Je '25

Electric light and power industry of 1923. M. H. Aylesworth. Annalist 23:16+ Ja 7 '24

Enormous expansion of plants and financing sets new record of achievement. F. T. Griffith. il Elec W 85:1303-5 Je 20 '25; Same. N E L A Bul 12:423-6 Jl '25; Excerpts. Power 61:1008 Je 23 '25

Future of light and power as leaders see it. Forbes 16:320-2+ Je 15 '25

Outlook for utilities. W. H. Johnson. Elec W 82:1167 D 8 '23

Potential field of the industry; cities, towns and villages served and not served by central station systems. il Elec W 85:39-43 Ja 3 '25

Prosperous year indicated for electric plants. M. H. Aylesworth. Annalist 25:20-3 Ja 5 '25

Public utility compendium of the Commercial & financial chronicle [formerly Electric railway section]. Comm & Fin Chr 119:1-180 sec 2 N 1 '24 [issued twice a year on the first Saturday in May and November]

Review of the development of the electric light and power industry 1920-30. D: Cowan. Elec W 85:1391-1400 Je 27 '25; Same. Can Eng 49:271-4, 293-6 S 1-8 '25

Survey of electric power and light companies of the United States. 215p Bonbright & co., New York, Chicago '23

Unparalleled progress is story of the year. M. H. Aylesworth. Pub Serv Management 38: 163-4 Je '25

Wales

Electricity in Cardiff. il Electrician 93:237-8 Ag 29 '24

Washington (state)

Association opens campaign to defeat Bone bill. J Elec 52:468-9 Je 1 '24

Bone free power bill defeated by 66,000 majority. J Elec 53:376 N 15 '24

ELECTRIC utilities—Washington (state)—*Cont.*
Shall the state go into the power business in Washington? text of the Erickson bill. J Elec 52:243-7 Ap 1 '24
What is the Bone-Erickson bill? N. W. Brockett. J Elec 53:174-6, 179 S 1 '24

Western states

Next five years promise record growth for the industry. J Elec 54:101-3 F 1 '25
Power and business in the West. A. Sproul. maps Elec W 85:1217-18 Je 6 '25
Power company construction programs set new records for 1924-25. J Elec 54:80-7 F 1 '25
Resumé and a forecast of commercial activity. J Elec 54:91-101 F 1 '25

ELECTRIC vehicles
Electric battery vehicle. H. E. Dance. il diags Inst E E J 61:1100-8 O '23
Electric road vehicle; its characteristics and its economic field of usefulness. D. E. Batty. il diags Automobile Eng 14:375-81 N '24; Same cond. Engineering 118:688-90, 719-20 N 14-21 '24; Abstracts. Elec R (Lond) 95:837-9 N 28 '24; Electrician 94:756 Je 26 '25
Electrically-propelled vehicles for road transport. F. Ayton. Elec R (Lond) 96:871-2 My 29 '25
Technical history of gas-electric drives. P. M. Heldt. il diags Automotive Ind 52:529-32 Mr 19 '25
Voitures à accumulateurs électriques, type Usines Renault et Société alsacienne de constructions mécaniques. Béthenod. il Génie Civil 86:612-13 Je 20 '25

See also Electric buses; Electric tractors; Electric trucks; Storage batteries

Advertising

How Packard Electric balances business-paper and direct-mail advertising. J. C. Bowman. Ptr Ink 125:69-70 D 20 '23

Exhibitions

Commercial motor show. il Elec R (Lond) 93: 834-5 N 30 '23
Electric vehicles at Wembley. il Elec R (Lond) 95:433-5, 459-60 S 19-26 '24
Seventh international commercial motor transport exhibition, Olympia, Oct. 29-Nov. 7. il diags Engineer 140:457-60 O 30 '25

Specifications

American electric car specifications; tabulation. Automotive Ind 50:422-3 F 21 '24

Testing

Les essais controlés de véhicules à traction électrique par accumulateurs (25 septembre-10 octobre 1923). C: Dantin. il diags plans Génie Civil 83:633-9 D 29 '23

ELECTRIC vehicles and the central station
Are central stations merchandisers? E. Parker. il N E L A Bul 11:280-3 My '24
Electric industrial trucks and tractors as revenue builders for central stations; report of committee of Pacific coast electrical association. J Elec 52:402-4 Je 1 '24
Electric transportation and the central station; report of Pacific coast electrical association. J Elec 54:417-26 Je 1 '25
How central stations can help local sales of electric trucks. W: Van C. Brandt. N E L A Bul 11:739-40 D '24
Opinion on the vehicle outlook. E. R. Whitney. Elec W 83:115 Ja 12 '24
Relation of the central station to the electric truck industry. C: R. Skinner. Elec J 21: 133-4 Ap '24
What's the matter with the electric trucks? F. F. Espenschied. Elec W 85:769 Ap 11 '25
Why central stations should investigate the electric truck. E: J. Power. il J Elec 51: 163-5 S 1 '23; Same. N E L A Bul 10:734-6 D '23
Why the electrical industry should be interested in the electric truck. K. I. Dazey. il J Elec 53:362-3 N 15 '24

ELECTRIC washing machines. See Washing machines, Electric

ELECTRIC water heaters
Analysis of domestic metered water heating in California; report of Pacific coast electrical association. J Elec 54:397-8 Je 1 '25
Electric water heating as an off-peak rural load builder. F. C. Taylor. Elec W 83: 293-4 F 9 '24
Electrically heating an industrial plant; hot water heating for Ford factory. P. H. Falter. il Elec W 83:145 Ja 19 '24; Same. Power 59: 57-8 Ja 8 '24
Elektrische durchlauferhitzer. il diags Elektrotech Zeit (special no.) 45:31-2 Ag 28 '24
Energy consumption and cost of electric water heating. Elec W 86:275 Ag 8 '25
Heating water by electricity; a public baths and wash-house installation. J. Hope. Elec R (Lond) 96:837 My 22 '25
How to market hot water. C. G. Nobbs. Elec R (Lond) 94:235 F 8 '24; Abstract. Electrician 92:105 Ja 25 '24; Discussion. Elec R (Lond) 94:235-6 F 8 '24
Proper insulation aids sale of heating equipment. K. H. Dyer. J Elec 52:58-9 Ja 15 '24
Remedying heat losses in electric water heaters. E. N. Stewart. Elec W 85:1138 My 30 '25
Sale and application of electric water heaters; report of committee of Pacific coast electrical association. J Elec 52:385-6 Je 1 '24

ELECTRIC wave filters
Electric filters that illustrate defects of radio loudspeakers. P. B. Findley. Sci Am 132:241 Ap '25
Electric wave filters. D. E. Richmond. Sibley J 38:61-3+ Mr '24

ELECTRIC waves
Coefficient de déformation des courbes de force électromotrice des alternateurs. Legros. diags Génie Civil 86:234-5 Mr 7 '25
Dielectric properties of water for continuous waves. G. C. Southworth. diags Phys R 23: 631-40 My '24
Effect of wave shape on time-current characteristics of time relays; report of Pacific coast electrical association. J Elec 54:444-8 Je 1 '25
Electric harmonic analyser. J. D. Cockcroft and others. diags Inst E E J 63:69-113 [bibliog. p. 111-13] Ja '25; Discussion. 63: 113-19, 231-3 Ja-F '25
High voltage phenomena. G. Faccioli. il diags Power Pl Eng 28:1151-5 N 15 '24
Messung der steilheit von wanderwellen. E. Marx. Elektrotech Zeit 45:1083-4 O 9 '24
Ondes à front raide. P. Bunet. Génie Civil 86: 235-6 Mr 7 '25
Oscillations électriques. H. P. M. Bouasse. 278p Delagrave, Paris '24
Polyphase transformer magnetizing-current wave-forms. P. Kemp and H. P. Young. Inst E E J 63:877-95 [bibliog. p. 894-5] S '25
Rectifier wave forms. D. C. Prince. diags Gen Elec R 27:608-15 S '24; Abstract. Elektrotech Zeit 46:1271-2 Ag 20 '25
Shape of pole-shoe required to produce a sinusoidal distribution of air-gap flux density. B. Hague. diags Inst E E J 62:921-9 N '24
Short electric waves obtained by the use of secondary emission. E. W. B. Gill and J. H. Morrell. Philos Mag 6th ser 49:369-79 F '25
Specification of wave-shape. A. Russell. Inst E E J 62:13-16 D '23
Standing electric waves on parallel wires. W. S. Huxford. diags Phys R 25:686-95 My '25
Untersuchungen über die vorgänge bei der elektrischen stossprüfung. L. Binder. diags Elektrotech Zeit 46:137-42 Ja 29 '25
Wave-form analysis on rectified circuits. L. B. W. Jolley. diags Inst E E J 63:588-92 Je '25

See also Electric currents, Alternating; Electromagnetic waves; Oscillations (electric currents); Radio measurement; Radio telegraph; Radio waves; Wavemeters

ELECTRIC welding
A.l. electric welders. il diags Engineering 118:764-5, 827-8 D 5, 19 '24

ELECTRIC welding—*Continued*
Believes wheel welding can be done. F. J. Foote. Elec Ry J 63:972-3 Je 21 '24
Butt-welding multi-throw cranks. A. M. Lount. diags Mach 31:144-5; 32:222-3 O '24, N '25
Butt-welds in tension bars. E: Godfrey. Eng N 92:418 Mr 6 '24
Cast iron valve heads can be welded to steel stems at rate of 400 per hour. H. Chase. il diag Automotive Ind 52:533-4 Mr 19 '25
Comprehensive shop welding program makes big savings. il diag Elec Ry J 63:617-18 Ap 19 '24
Direct—and alternating-current welding generator. il Mach 31:828 Je '25
Double-head welder cuts wheel maintenance in Detroit. A. C. Colby. il Elec Ry J 65:463-4 Mr 21 '25; Same. Am Mach 62:625-6 Ap 16 '25
Efficiencies of electrically welded joints. E. E. Michaels. il Eng & Contr (Bldgs) 61: 201-3 Ja 23 '24
Electric butt welder with a water-cooled transformer made by Federal machine & welder company. il Ry Mech Eng 99:59-60 Ja '25
Electric spot welding aluminum or duralumin. J. W. Meadowcroft. Am Mach 61:760 N 13 '24
Electric welding. L. B. Wilson. 106p [bibliog. p. 103] Pitman '25
Electric welding corroded bridge members. Eng & Contr (Ry) 62:126 Jl 16 '24
Electric welding of metal. Elec R (Lond) 95:890-1 D 12 '24
Electric welding of monel metal; abstract. Mech Eng 46:494 Ag '24
Electrically-welded steel pipe line for Vallejo water-works. Eng N 94:654-5 Ap 16 '25
Elektrische punktschweissmaschine. il diag Elektrotech Zeit 46:1160 Jl 30 '25
Experience with resistance welding. G. A. Hughes. il diags Elec W 85:913-18 My 2 '25
Fire tanks welded. C: Seitz. il Iron Age 116: 1250 N 5 '25
How a copper-to-steel bond is made, with tests proving its efficiency and endurance. J. B. Austin. il diags Coal Age 26:330-4 S 4 '24
Inspection of spot and butt welds. A. L. De-Leeuw. Am Mach 62:688 Ap 30 '25
Lighter portable welder. J. C. Lincoln. il Elec Ry J 63:781-2 My 17 '24
Machines électriques à souder et à river à fonctionnement automatique de l'Electric welding appliances co. diags Génie Civil 86: 468 My 9 '25
Manganese special work welding. E. J. Shuler. Eng & Contr (Ry) 61:419-20 F 20 '24
Possibilities and limitations of fusion welding. il Ry Age 75:1172-3 D 22 '23
Rapid track reconstruction with butt-welded joints. il Elec Ry J 64:831-3 N 15 '24
Refiners find welding outfits keep down equipment costs. il Nat Pet N 17:73 Ja 7 '25
Resistance welding. H. A. Woofter. Iron Age 113:1362-3 My 8 '24
Rückwirkung des schweissgutes auf die strom- und spannungsverhältnisse der punktschweissmaschine. F. H. Hellmuth. diags Elektrotech Zeit 45:657-8 Je 19 '24
Some essentials for bonding and welding repairs. J. C. Lincoln. Elec Ry J 63:821-2 My 24 '24
Thomson electric welding machines for automobile production work. il Automotive Ind 51:858-9 N 13 '24; Am Mach 61:749, 827-8 N 6, 20 '24; Mach 31:234 N '24
Uses of electric welding. Elec W 84:1016 N 8 '24
Water cooled spot welding machine. il Ry Mech Eng 99:188 Mr '25
Welded rail joint practice in Toronto. A. T. Spencer. Elec Ry J 63:981-2 Je 21 '24
Welding aids builders of ammonia equipment. L. H. Burkhart. il diag Power Pl Eng 29: 1109-10 N 1 '25
Welding all-steel automobile bodies. J. W. Meadowcroft. Am Mach 63:773-4 N 12 '25
Welding applications extended. Iron Tr R 76: 1162+ Ap 30 '25
Welding—the filling-in and putting-on tool. W. R. Needham. Elec R (Lond) 96:969 Je 19 '25

Bibliography

Bibliography of electric welding. W: F. Jacob and E. H. Ewertz. Marine Eng 29: 117-21+ F '24

Safety devices and measures

Safety in electric welding and cutting. D: H. De Yoe. Nat Safety N 8:39 Jl '23; Same. Coal Age 24:15-16 Jl 5 '23; Same. Foundry 52:148 F 15 '24; Same. Safety Eng 47:159-60 Mr '24; Same. Iron Tr R 74:1235 My 8 '24; Abstract. Elec Ry J 63:185 F 2 '24

See also Electric welding, Arc—Safety devices and measures

Testing

Spot-welded girders and columns tested for strength. L. B. Tuckerman. diags Eng N 92:982-3 Je 5 '24

ELECTRIC welding, Arc
Adaptability of electric arc welding. A. G. Bissell. Ry R 77:713-14 N 7 '25
Adaptability of electric arc welding to the fabrication of structural steel. A. G. Bissell. il diag Am Arch 128:327-32 O 5 '25
Allan alternating-current welding generator. il Iron Age 114:381 Ag 14 '24
American welding society annual meeting, New York, April 23-25. Iron Age 113:1281-2 My 1 '24
Applications of arc welding to ship construction. E. H. Ewertz. il diags Marine Eng 28: 420-4+, 480-91, 549-56, 625-30, 774-8; 29:47-54, 114-17 Jl-O, D '23-F '24
Applies electric arc to production work. E. F. Ross. il Iron Tr R 77:125-8 Jl 16 '25
Arc welded exhaust steam line. E. W. Gallagher. il diag Power Pl Eng 29:352 Mr 15 '25
Arc welding. A. Smith. Power 60:608 O 14 '24
Arc welding and cutting economies. A. M. Candy. il Ind Eng 82:27-9+ Ja '24
Arc welding and cutting in railroad shops. A. M. Candy. il Elec J 21:273-5 Je '24
Arc welding as applied to power machinery. W. L. Warner. il Power 62:170 Ag 4 '25
Arc-welding cast iron without preheating. C. J. Holslag. Mach 30:392 Ja '24
Arc welding discussed before Metropolitan section. Elec Ry J 64:1049 D 20 '24
Arc welding handbook. C. L. Holslag. 243p McGraw-Hill '24
Arc welding in power plants. W. L. Warner. il Power 61:336-8 Mr 3 '25
Arc welding of alloy steels. C. J. Holslag. Am Mach 59:907-8 D 20 '23
Arc welding on locomotive work. il Am Mach 61:914-15 D 11 '24
Arc welding sheet-metal parts. A. R. Luechinger. il Am Mach 60:425-7 Mr 20 '24
Arc welding with metallic electrodes. W. L. Warner. il Chem & Met Eng 32:206-8 F 2 '25
Aus der werkstatt des lichtbogenschweissers. A. Hochstimm. il Zeit Ver Deutsch Ing 68: 129-32 F 9 '24
Automatic arc welding in tank construction. W. L. Warner. il diags Am Mach 63:643-5, 689-92 O 22-29 '25
Automatic arc welding of iron tanks. Elec W 84:122 Jl 19 '24
Automatic welder for drive shafts. C. H. Franklin. il Am Mach 60:747 My 15 '24
Bronze-steel welds. G: F. Comstock. il Iron Age 112:1381-2 N 22 '23
Building machines by welding. il Mach 31:774-6 Je '25
Carbon arc welding. J. C. Lincoln. Iron Age 113:1361 My 8 '24
Chemical industry is getting "welding wise". il Chem & Met Eng 31:742 N 10 '24
Completely arc-welded barge Independent. W. L. Warner. il diags plan Gen Elec R 28:66-70 Ja '25
Correct welding procedure retains qualities of manganese steel. H. H. George. Elec Ry J 63:611-13 Ap 19 '24; Same. Eng & Contr (Ry) 62:411-14 Ag 20 '24

ELECTRIC welding, Arc—*Continued*
Costs lowered by arc welding. il Iron Age 116: 70-1 Jl 9 '25
Electric arc and oxy-acetylene welding. E. A. Atkins. 316p Pitman '23
Electric arc used in repairing locomotive guides. Iron Age 113:1359 My 8 '24
Electric arc welding applied to manganese steel. diags J Elec 54:106-7 F 1 '25
Electric arc welding applied to shipbuilding. A. G. Bissell. il diags Marine Eng 29:617-20 O '24
Electric arc welding applied to ship repairing. A. G. Bissell. il diags Marine Eng 30:179-80 Mr '25
Electric arc welding for shipbuilding. Strelow. il diags Electrician 95:146-7 Ag 7 '25
Electric arc welding on the steam locomotive. W. M. B. Brady. il Gen Elec R 27:687-97 O '24
Electric arc welding with alternating current. O. Wundram. Elec W 82:979 N 10 '23
"Electric" universal electric welding machine. il Am Mach 60:451 Mr 20 '24
Electric welding applied to motor building. il Elec W 84:423 Ag 30 '24
Electric welding of gas works apparatus. il Gas Age 53:795-6 Je 7 '24
Electric welding of live steam main at St Louis. J: B. Abell. Munic & Co Eng 69:181-2 O '25; Same cond. Elec W 86:904-5 O 31 '25
Electric welding with automatic machines; the Cutler-Marsden welders. il Elec R (Lond) 95:917-19 D 12 '24
Electric welds hold in test of still. il Power 62:487 S 29 '25
Electric welds should be reinforced results of many tests show. il Coal Age 28:403 S 17 '25
Electrode enrobée, pour la soudure à l'arc. Génie Civil 86:216-17 F 28 '25
L'état actuel de la soudure autogène et du découpage des métaux. M. R. Thomas. diags Soc Ing Civils Bul 77:182-203, pl 65 Ja '24
Example of metallic-arc welding in bridge repair, Pittsburgh. il diags Gen Elec R 27:555 Ag '24; Same. Eng & Contr (Bldgs) 62: 899 O 22 '24
Fabricating arc welded steel purifier boxes in the field. J. F. Miller. il Gas Age 54:51-2 Jl 12 '24
First one-piece vessel welded by electricity. il Elec W 84:1374 D 27 '24
General Electric automatic arc-welding equipment. il Am Mach 62:598 Ap 9 '25
G.E. automatic arc welding travel carriage. il Am Mach 61:942 D 11 '24
General Electric automatic range-boiler welders. il Am Mach 63:568 O 1 '25
General Electric portable arc welder. il Am Mach 60:829-30 My 29 '24; Automotive Ind 50:1232 Je 5 '24
How a copper-to-steel bond is made, with tests proving its efficiency and endurance. J. B. Austin. il diags Coal Age 26:330-4 S 4 '24
How to weld cast iron with a self-fluxing electrode. Coal Age 26:806, 853-4 D 4-11 '24
Improvements in arc-welded rail joints. R. B. Fehr. Elec Ry J 63:783-5 My 17 '24
Instance of electric weld stronger than rail head. diag Eng & Contr (Ry) 62:837 O 15 '24
Latest type of self-excited generator for arc welding. H. R. McKean. il diags Gen Elec R 28:86-90 F '25
Lincoln portable arc welder. il Elec Ry J 65: 666 Ap 25 '25
Maintaining conduit conductor rails. il Elec Ry J 63:150-1 Ja 26 '24
Maintenance repairs by welding. J. F. Lincoln. il Elec Ry J 65:101-2 Ja 17 '25
Making the welding set portable. il Elec Ry J 63:588 Ap 12 '24
Mechanical man should be welding wise. J. F. Lincoln. il Am Mach 62:161-2 Ja 22 '25
Metal arc welding. C. J. Holslag. Iron Age 113:1362 My 8 '24
Metallurgical analysis of arc welding. A. G. Bissell. il Aera 13:1050-5; Discussion. 1055-6 Ja '25
Mode of retention of nitrogen in electric arc weld metal. E. J. B. Willey. diag Soc Chem Ind J 43:263-6, 267-70 Ag 1-8 '24
New arc welding generator. A. M. Candy. diags Elec J 21:413-16 S '24
New electric welding applications. il Elec W 85:104 Ja 10 '25
New way to make welded steel electric motors. W. W. Baxter. il Ry R 77:643-5 O 24 '25
Notes on welding and cutting by carbon arc. W: L. Warner. il Chem & Met Eng 32:517 My '25
One-man portable universal welder. il Ry Mech Eng 98:250 Ap '24
Precision welding. S. W. Mann. il Blast F & Steel Pl 12:81-4 Ja '24
Rail joint welding. F. B. Walker and others. Elec Ry J 65:698-701 My 2 '25
Rail welding in Connecticut. diags Elec Ry J 63:537-9 Ap 5 '24
Reclamation of material by welding. W: I. Morgan. il Am Mach 60:762 My 22 '24
Repairing large water main in place by welding. Eng & Contr (W W) 61:76 Ja 9 '24
Repairing locomotive frames by arc welding. J. M. Vossler. il diags Am Mach 63:151-4 Jl 23 '25
Residual stress and other fundamentals in the design of metal arc welded ships and welded structures in general. J. W. Owens. il diags Marine Eng 29:487-91 Ag '24
Selection of a single-operator arc-welding motor-generator set. M. S. Hancock. Elec J 21:269-72 Je '24
Sheathed electrode and an example of its application to the automatic welding of galvanized tanks. B. C. Tracey. il Gen Elec R 27:772-3 N '24
Specifications for welding electrodes. Foundry 52:106a, 144a F 1-15 '24
Three years' experience in repairing worn locomotive tires. il Coal Age 27:587 Ap 16 '25
Track economies through welding. R. B. Fehr. Elec Ry J 66:60-1 Jl 11 '25
Über elektrische schweissung; lichtbogenschweissung von flusseisen. H. Neese. il Zeit Ver Deutsch Ing 68:1125-32 O 25 '24
Use of mold successful in arc welding copper rail bonds. C. F. Gailor. il diag Elec Ry J 62:1001-3 D 15 '23; Same. Eng & Contr (Ry) 61:125-7 Ja 16 '24
Using the arc weld for mill repairs; abstracts. R. L. Scollard. il Iron Tr R 76:1632-3 Je 25 '25; Blast F & Steel Pl 13:298-9 Jl '25; Iron Age 116:152-3 Jl 16 '25
Variety of arc welding jobs in railroad and repair shops. Am Mach 60:500-1 Ap 3 '24
Welded cast-iron specimens reveal strength of electric process. il Coal Age 26:842 D 11 '24
Welding applied to motor production. J. F. Lincoln. il Management & Adm 10:37-9 Jl '25; Abstract. Power 62:32 Jl 7 '25
Welding copper to steel by electricity. C. H. S. Tupholme. Elec R (Lond) 96:731 My 8 '25
Westinghouse portable arc welder. il Management & Adm 8:534 N '24

Cost

Cost of automatic welding of crosshead guides. il Ry Age 76:1713 Je 18 '24

Safety devices and measures

Notes on welders' safety glasses and accessories. W. S. Andrews. Am Mach 61:657-8 O 23 '24
Safety first in arc welding. J. Edgar. Electrician 92:632 My 23 '24

ELECTRIC wire
Insulating copper wire. W. J. Pettis. Metal Ind 23:235 Je '25
Invention and development of enameled wire. C: R. Underhill. Ind Eng 81:607-8 D '23
Remarkable property of selenium; flameproofing of electric wires. E. C. Crocker. Ind & Eng Chem 17:163 F '25

ELECTRIC wire—*Continued*
Selecting the proper size wire for electric circuits. Coal Age 26:58 Jl 10 '24

See also Electric cables; Electric conductors; Electric lines; Trolley wire

Manufacture

Electric wire and small fittings factory; a visit to the works of Messrs. Ward & Goldstone, ltd., Manchester. il Elec R (Lond) 97:579-81 O 9 '25

Standards

Method of choosing wires and cables. Elec W 85:1268 Je 13 '25

Temperature

General formula for calculating the temperature of electrically heated wires. Elec R (Lond) 93:989-90 D 28 '23

Testing

Accelerated corrosion tests on wire and strand. F. F. Fowle. diag Eng N 95:185-7 Jl 30 '25
Ein neuer lackdrahtprüfapparat. il diags Elektrotech Zeit 46:1312-14 Ag 27 '25
Test for springiness of magnet wire. il Elec W 85:1406 Je 27 '25
Test methods for enameled electric wire. M. J. Cathala. diags Power Pl Eng 29:756 Jl 15 '25

ELECTRIC wiring
Color code meter cables and test blocks. diags Elec W 84:319 Ag 16 '24
Conduit wiring. T. Croft. 458p McGraw-Hill
Electric circuits and installation diagrams. W. W. S. Ibbetson. 190p Spon '25
Electric wiring; a textbook of applied electricity for vocational and trade schools. A. A. Schuhler. 361p McGraw-Hill '24
How to check instrument transformer and meter connections. V: H. Todd. diags Power 58:413-15 S 11 '23; Same. Coal Age 24:851-3 D 6 '23
Installationsfragen. A. Eimers. diags Elektrotech Zeit 46:1001-3 Jl 2 '25
Locating lost switch loops and concealed wires. A. H. Ford. Elec W 85:564 Mr 14 '25
Mounting and wiring for meter installations. diags Elec W 84:274 Ag 9 '24
Principles of transformer connections. V. E. Johnson. diags Power Pl Eng 29:956-8, 1102-6 S 15, N 1 '25
Profitable power wiring. W: J. Shore. 127p Gage pub. co., inc., New York '24
Simple rule for connecting current transformers. L. F. Hunt. diags J Elec 54:210-11 Mr 15 '25
Special transformer connections. diags Elec W 85:670 Mr 28 '25
Standard specifications prepared for pole riser service. diag J Elec 53:371 N 15 '24
Wiring for light and power. T. W: Croft. 4th ed. 551p McGraw-Hill '24
Wiring in a corrosive atmosphere. Elec R (Lond) 94:369-70, 448, 492, 529 Mr 7, 21-Ap 4 '24
Wiring practises and materials, Sweden. T. O. Klath. Am Inst E E J 44:841 Ag '25

See also Electric codes; Electric conduits; Electric distribution; Electric engineering—Laws and regulations; Electric fittings; Electric fuses; Electric inspection; Electric lighting; Electric lines; Electric railroads—Wiring; Electric transmission; Insulation (electric); National electrical code; Telegraph; Telephone

Estimates

California electragists study estimating methods. C. J. Geisbush. diag J Elec 55:62-3 Jl 15 '25
Distribution estimates. Elec W 84:420 Ag 30 '24
Electrical estimating for the contractor. J. R. Wilson. J Elec 55:32, 98, 180-1, 254-5, 340-2 Jl 1, Ag 1, S 1, O 1, N 1 '25
Estimating without loss. 126p Gage pub. co., inc., New York '24
Modern standard for estimating electric wiring contracts. C. L. Chamblin. J Elec 53: 442-4 D 15 '24

Safety measures

Essential requirements of safety switches. J. E. Housley. il diags Ind Eng 83:123-6+ Mr '25
New regulations for wiring and car house construction; text. G. C. Hecker. Aera 13: 2025-36 Jl '25

See also Linemen's equipment

Standards

Schlüsseldiagramme für elektrische schaltungen im dienste der normung. A. V. Hellborn. diags Elektrotech Zeit 46:770-2 My 21 '25

Tables, calculations, etc.

How to make controller diagrams. H. D. James. diags Elec J 21:523-6 N '24

ELECTRIC wiring, Interior
Changes in a distribution system which have lowered maintenance costs, cut fire and accident hazards and increased reliability of service. B. R. Fritz. il plan Ind Eng 82: 378-80+ Ag '24
Complete wiring installation in model home. il plan Bldg Age 46:82-3 Ag '24
Distribution and control of electric current. H. F. Richardson. il Am Arch 125:112-17 Ja 30 '24
Electric wiring and fire damage. il Am Arch 125:69-73 Ja 16 '24
Electrical construction. E. E. Browne. diags J Elec 50:332-4, 378-9, 460-1, 494-5; 51:18-19, 56-7, 94-5, 134-5, 174-6, 214-15, 254-5, 294-5, 376-7, 414-15, 454-5; 52:20-2, 56-7, 102-3, 132-5, 172-4; 53:330-2, 366-7, 408-9 My 1-O 15, N 15 '23-Mr 1, N 1-D 1 '24
Electrical installation in homes. il Bldg Age 46:90-1 Mr '24
Electrification of buildings. R. E. Argersinger. il Am Arch 125:107-12 Ja 30 '24
Evolution in wiring. R. S. Hale. Elec W 84: 766-7 O 4 '24; Discussion. 85:149, 821 Ja 17, Ap 18 '25
400,000,000 outlets are in prospect. M. Luckiesh. Elec W 86:851-2 O 24 '25
Fundamentals of house wiring. G: A. Willoughby. 67p Manual arts press '24
Glover's surface house-wiring system. il Elec R (Lond) 95:611 O 24 '24; Electrician 93: 465 O 24 '24
Helsby ebonite-enclosed wiring system for fume-laden atmospheres. il Elec R (Lond) 97:438 S 11 '25
House wiring. G: A. Willoughby. 219p Wiley '25
House wiring and bell work. W: S. Lowndes. various paging McKay '25
House wiring at so much per set! E. G. Ross. Elec R (Lond) 97:210-12 Ag 7 '25
Installation of identified conductors. C. W. Mitchell. diags J Elec 52:15-16 Ja 1 '24
Installation policy; its importance to the electricity supply industry. L. L. Robinson. Elec R (Lond) 96:1013-14; 97:31; Discussion. 31-3 Je 26-Jl 3 '25
I.E.E regulations for the electrical equipment of buildings; a review. D. S. Munro. Elec R (Lond) 95:209-11 Ag 8 '24; Discussion. 95:774-5, 911-12, 971; 96:49-50 N 21, D 12, 26 '24, Ja 9 '25
Lighting and power circuit secondaries. diags Elec W 84:746-7 O 4 '24
Manufacturers indorse red seal plan. Elec W 85:1367-8 Je 20 '25
Merchandising a complete house-wiring system. J Elec 55:142-3 Ag 15 '25
Modern hotel electrification; new Statler hotel in Buffalo. K. Parker. il diags plan Elec W 84:404-10 Ag 30 '24; Same. Eng & Contr (Bldgs) 63:199-204 Ja 28 '25
Modern practice in power plant wiring. E. G. Sohlberg. diags Power Pl Eng 29:338-43, 492 Mr 15, My 1 '25
Modern switchboards demand care in wiring. C. S. Bousum. il diags Power Pl Eng 29: 796-8 Ag 1 '25

ELECTRIC wiring, Interior—*Continued*
Modern systems of electrical installation work. F: H. Taylor. Engineering 120:30 Jl 3 '25; Same cond. Electrician 97:759 Je 26 '25
New rules put into effect in San Francisco by department of electricity. J Elec 55:298-9 O 15 '25
Points to be watched when wiring for motors in the industrial plant. C. W. Kinney. Ind Eng 82:147-8 Mr '24
Power service layout for a woodworking plant. F. A. Westbrook. il Ind Eng 83: 316-19 Jl '25
Proper installation for the small house. diag Bldg Age 47:134 My '25
Proper wiring of electrical equipment on machine tools. R. C. Deale. il Am Mach 63: 215-18 Ag 6 '25
Proposed wiring method. Elec W 85:322 F 7 '25
Regulations; discussion. Elec R (Lond) 95: 615, 654, 691, 731 O 24-N 14 '24; Electrician 93:468, 499, 529 O 24-N 7 '24
Safety-first installations for the electrical contractor. diag J Elec 54:370; 55:96, 179, 217 My 15, Ag 1, S 1-15 '25
Special electrical requirements. J: E. Dutcher. il diags Am Arch 125:118-22 Ja 30 '24
Step toward uniformity in wiring. C. A. Bates. Elec W 84:711-12 S 27 '24
Underfloor duct system. il diags Elec W 82: 595-8 S 22 '23; Same. Eng & Contr (Bldgs) 61:189-94 Ja 23 '24
Vorschläge für die installation von electrischen starkstromanlagen in neubauten. A. Stellwag. Elektrotech Zeit 46:460-1 Mr 26 '25
Where wiring can be improved around machines. il Ind Eng 82:220-4+, 275-8+ My-Je '24
Wiring a small home. plans Bldg Age 47:117 Ag '25
Wiring code not changed. Elec W 85:486 F 28 '25
Wiring devices. il Ind Eng 83:109-10 F '25
Wiring in concrete buildings without rigid conduits. il Concrete 26:193-4 Je '25
Wiring regulations. F: W. Purse. Elec R (Lond) 96:324-5 F 27 '25
Wiring residences for electric service. G. W. Spencer. J Elec 54:138-9 F 15 '25
Wiring rules. R. E. Robson. Electrician 93: 344-5 S 26 '24

See also Electricity in the home; Mechanical equipment of buildings

Specifications

Recommended minimum specification for house wiring. N E L A Bul 11:248-9 Ap '24; Elec W 83:1050 My 24 '24

Standards

Standard method of wire marking adopted by contractors. diags J Elec 55:343 N 1 '25
Wiring code national standardization. W. J. Canada. Elec W 85:1424-5 Je 27 '25

ELECTRIC workers
Electric wages tribunal. Electrician 93:301, 325-6 S 12-19 '24; Elec R (Lond) 95:449-51, 483-4 S 19-26 '24
Electrical workers, Mount Vernon, N.Y. Monthly Labor R 19:597-8 S '24
Electrical workers, Washington, D.C., agreement. Monthly Labor R 19:1293-4 D '24

See also Electric substations—Operators; Linemen; Linemen's equipment

ELECTRIC yarns. See Insulating yarn

ELECTRICAL construction industry, Council on industrial relations for the. See Council on industrial relations for the electrical construction industry

ELECTRICAL world (periodical)
Men who have built the "Electrical World" and the story of its building. H. V. Bozell and others. Elec W 84:561-72 S 20 '24

ELECTRICIANS
L'apprentissage chez nos constructeurs-électriciens. G. Westercamp. Soc Ing Civils Bul 76:1266-73 O '23

See also Linemen; Linemen's equipment

ELECTRICITY
Electric competition. A. J. Garward. Gas J (Lond) sup 4:50-1 F 25 '25
Elementary electricity. S. G: Starling. 248p Longmans '23
Everyday electricity. H. T. Wade. 299p Little, Brown & co., Boston '24
Gas and electricity in relation to unemployment and industrial depression. M. Watson. Gas J (Lond) 170:595-7 My 27 '25
Gas v. electricity. Gas J (Lond) 171:31-2 Jl 1 '25
Gas v. electricity. H. Davis. Gas J (Lond) sup4:93 Ap 29 '25
Gas v. electricity. T. J. Laycock. Gas J (Lond) sup 4:157-8; Discussion. 158 Jl 29 '25
How electricity is produced. Coal Age 24:817-18 N 29 '23
Law description and hypothesis in the electrical science. M. I. Pupin. Am Inst E E J 44:741-6 Jl '25
Magnetism and electricity. J. P. Yorke. New ed. 248p E. Arnold & co., London '22
Modern school electricity and magnetism. R. G. Shackel. 250p Longmans '25
Some of the marvels of electricity. Manuf Rec 86:88 D 4 '24
What is electricity? J. W. Tunstan. Electrician 92:325 Mr 14 '24
What is electricity? H. E. Yerbury. Elec R (Lond) 94:589-90; Discussion. 590-1 Ap 11 '24

See also Armatures; Atmospheric electricity; Commutation (electricity); Corona (electricity); Dielectrics; Electric arc; Electric currents; Electric generators; Electrons; Electrostatics; Electrotherapeutics; Foundries—Electric equipment; Hall effect; Induction (electricity); Insulation (electric); Ionization, Electrolytic; Lightning; Magnetism; Photoelectric cells; Photoelectric effect; Photoelectricity; Piezoelectricity; Radio communication; Radio telegraph; Radio telephone; Radioactivity; Ships—Electric equipment; Stray currents; Telegraph; Telephone; Thermoelectricity; X rays; *also* headings beginning Electric and Electro

Dictionaries

Dictionary of electrical terms. S. R. Roget. 296p Pitman '24
Electrical dictionary. L. L. Cooke. 188p Chicago engineering works, Electrical instruction dept., Chicago '23
Standard electrical dictionary. T. O. Sloane. Rev. & enl. ed. 790p Henley '24

Laboratory manuals

Laboratory manual of electrical science. R. O. Buck and H. E. Frost. 136p Bruce pub. co., Milwaukee, Wis. '25

Tables, calculations, etc.

Calculation of air-space flux. W. Cramp and N. I. Calderwood. diags Inst E E J 61:1061-71 O '23
Neue theorie des allgemeinen stromkreises. S. Fryze. diags Elektrotech Zeit 45:677-81 Je 26 '24

See also Electric engineering—Tables, calculations, etc.; Electric wiring—Tables, calculations, etc.

Theft

Massnahmen zur verhütung und bekämpfung von stromdiebstählen. M. Kutzner. Elektrotech Zeit 46:192-3 F 5 '25

ELECTRICITY, Accidents from
Les accidents mortels dus à l'électricité. Génie Civil 86:145-6 F 7 '25
Report of accident-prevention committee. Elec W 83:1058-9 My 24 '24
Report of H.M. electrical inspector of mines for the year 1923. Elec R (Lond) 96:189-91, 231-2 Ja 30-F 6 '25
Static electricity hazard. C. C. Perry. diags Nat Safety N 12:13-16 N '25

ELECTRICITY, Accidents from—*Continued*
Three men killed at Colfax station of the Duquesne light co. Power 61:438 Mr 17 '25
See also Electric engineering—Safety devices and measures; Electric welding—Safety devices and measures; Electricity, Injuries from; Electricity in mining—Safety devices and measures; Linemen

ELECTRICITY, Atmospheric. See Atmospheric electricity

ELECTRICITY, Injuries from
Counter-shock as a method of resuscitation following electrocution. A. Campbell and L. Hill. J Ind Hygiene 6:267-9 N '24
Electricity in factories and workshops: H. M. chief inspector's report. Elec R (Lond) 95: 135-6 Jl 25 '24
Electricity through water. Safety Eng 49:269 Je '25
Fire and injury hazards of electrical origin. J: A. Hoeveler. il Nat Safety N 11:7-19 Je '25
First aid training; report of Pacific coast electrical association. J Elec 54:426-8 Je 1 '25
Method of resuscitation from electrical shock. H. E. Fisher. Elec Ry J 66:691-2 O 17 '25
Shocks from lights caused by leaky transformer case. D. A. Hampson. Ind Eng 82: 547 N '24
Treatment for electrical shock. il J Elec 53: 410-11 D 1 '24

ELECTRICITY, Static
Application of an electrical method to the study of moisture absorption in cotton and its bearing on electrification in cotton. F. P. Slater. Textile Inst J 16:P53-60 Mr '25
Control of static and stray currents. C. Haner. diags Chem & Met Eng 31:5-7 Jl 7 '24
Fire hazards of static electricity. R. M. Clark. Ind & Eng Chem 17:1127-9 N '25
Methods for the elimination of static electricity. D. E. Whitlock. Chem & Met Eng 32:645-6 Jl '25
Static electricity hazard. C. C. Perry. diags Nat Safety N 12:13-16 N '25
Static electricity on belt caused by contact of surfaces. Power Pl Eng 29:606-7 Je 1 '25
Static hazards in gasoline handling. C: L Naylor and H. E. Ramsey. il Nat Safety N 9:13-15 F '24
Still up in air on static. Pet Age 14:52 Jl 15 '24
See also Electrostatics

ELECTRICITY in freight handling
Electrical installations at the Port of Genoa. il Elec R (Lond) 94:800-1 My 16 '24
Electrically-operated coal pier of the Western Maryland railway company. R. W. McNeill. il Elec J 20:329-33 S '23; Same. Eng & Contr (Ry) 60:1283-7 D 19 '23

ELECTRICITY in lumbering
Electric logging. P. A. Wickes. il Mech Eng 47:820-2 O '25
Electricity in a modern lumber project. F. R. Innes. il diag map Elec W 85:137-40, 198-202, 243-6, 297-301 Ja 17-F 7 '25
Glimpse into the Pacific coast lumber industry. il Ind Eng 82:406-7+ S '24
Logging electrically. R. E. Gray. il J Elec 55:48-51 Jl 15 '25
Lumber company puts floating power plant in service. il J Elec 52:335 My 1 '24
Lumber industry—a potential utility load. E. F. Whitney. il J Elec 54:586-9 Je 15 '25
Motor-driven "big wheels." il Sci Am 130:103 F '24

ELECTRICITY in mining
Advances in use of electricity in mines; report of A.I.E.E. committee on applications to mining work. Am Inst E E J 44:1218-19 N '25
Alternators supplying mine loads are easily and safely paralleled and operated. J. A. Erskine. il diags Coal Age 28:147-51 Jl 30 '25
Application of automatic control to mine substations. C. E. H. von Sothen. il plans Am Inst E E J 43:729-35 Ag '24; Discussion. 44:72-3 Ja '25
Automatic control of direct current circuits in coal mines. T. F. McCarthy. Min Cong J 11:484-5+ O '25
Automatic substations in the mining industry. E. L. Hough. il Gen Elec R 28:415-21 Je '25
Automatic substations of the Appalachian power company. G. L. Furr and W. L. Webb. il map plan Gen Elec R 28:408-14 Je '25
Baker electric plant guarded against breakdown. E. J. Gealy. il diags Coal Age 26: 117-20 Jl 24 '24
Better protection and operation will reduce maintenance costs. J. F. MacWilliams. il Coal Age 27:431-3 Mr 19 '25
Central station energy at work in Utah coal mines. M. L. Cummings, jr. il map J Elec 53:120-4 Ag 15 '24
Changing from a direct-current to an alternating-current system. F. Huskinson. il Power 61:453-4 Mr 24 '25
Coal mine electrification; discussion. W. C. Adams. Am Inst E E J 44:895-6 Ag '25
Coal mining at Wembley; electrical equipment of the model colliery. il Electrician 92:389+ Mr 28 '24
Colliery electrical engineering. G. M. Harvey. 387p Pitman '24
Colstrip mine is country's first electrified pit. il Coal Age 28:248 Ag 20 '25; Same abr. Eng & Contr (G C) 63:1309 Je 17 '25
Colstrip's electrical equipment is unusual. V. A. Wolcott. il Coal Age 28:663-4 N 12 '25
Control of mine equipment. W. C. Adams. Min Cong J 11:215-16+ My '25
Control of mining equipment. il Min Cong J 11:324-8 Jl '25; Coal Age 27:821-3 Je 4 '25
Diamond trolley for mine service. A. A. Bawden. il diag Eng & Min J 120:621 O 17 '25
Direct-current power-distributing system that keeps the mine equipment working. R. Howey. diags Coal Age 26:152-4 Jl 31 '24
Easily installed power lines and controls aid work of equipment in V system. C. O. Gallaher and G. B. Southward. il plans Coal Age 28:316-18 S 3 '25
Electric blasting in the Engels mine. W. R. Lindsay. Eng & Min J 120:576-7 O 10 '25
Electric power in mining. W. E. Creed. Min Cong J 11:5+ Ja '25
Electrical engineers discuss ways in which savings in power cut mining costs. Coal Age 25:754-60 My 22 '24
Electrical gear for mining work. il Electrician 93:262-3 S 5 '24
Electricity in coal mines. R. Nelson. Engineering 118:243-4 Ag 15 '24
Electricity in mines. E. I. David. il diags Inst E E J 63:521-36 Je '25; Abstracts. Elec R (Lond) 96:354-6, 392-3 F 27-Mr 6 '25; Electrician 94:242-3 F 27 '25; Engineer 139: 248 F 27 '25; Discussion. Inst E E J 63:537-70, 1125-9 Je, N '25; Elec R (Lond) 96:356 F 27 '25; Electrician 94:243 F 27 '25
Electricity in mines. F. L. Stone. il Coal Age 26:644-6, 681-4, 717-20 N 6-20 '24; Discussion. Am Inst E E J 44:409-11 Ap '25
Electrification of Nigerian tin mines. Eng & Min J 120:611 O 17 '25
Der elektrische antrieb beim abbau in schalgwettergruben. W. Philippi. il diags Elektrotech Zeit 46:997-1000 Jl 2 '25
Elektrizität im bergbau. W. Philippi. 301p [bibliog. p. 295-8] S. Hirzel, Leipzig '24
Empire mining and metallurgical congress, Wembley, June 3-6. Elec R (Lond) 94:934-5, 1024, 1064-6 Je 13-27 '24
Engineering achievements outstanding features of mining progress in 1923. E. J. Gealy. Coal Age 25:77-8 Ja 17 '24
European mines use electric current less than we do. R. J. Arthur. Coal Age 26:684-5 N 13 '24
First complete electrification of an open-pit iron-ore mine in Minnesota; specifications and operation costs of the electrical equipment. R. S. Walker. il diags maps Gen Elec R 27:580-91 S '24

ELECTRICITY in mining—*Continued*

Fitting latest switchboard appliances to mine generators and converters. W. L. Newmeyer. il diag Coal Age 26:184-7 Ag 7 '24

Force motrice et extraction aux mines de Lens. E. Cuvelette. diags map plans Soc Ing Civils Bul 77:521-74, pl 76 O '24

Generation and utilization of power in copper mining. H. H. Pratt. Min Cong J 11: 481-2 O '25

Glen Alden generates and distributes more power than any utility firm in hard-coal region. E. J. Gealy. il Coal Age 26:82-90 Jl 17 '24

The Hartshorns open big Illinois strip pit. E. W. Davidson. il Coal Age 26:319-22 S 4 '24

Lewis mine provides against electrical shutdown and uses block system of development. A. F. Brosky. il Coal Age 25:343-6 Mr 6 '24

Machine cuts power costs and saves copper. il Coal Age 26:829-30 D 11 '24

Manchester mining exhibition. il Elec R (Lond) 97:167-8, 209-10 Jl 31-Ag 7 '25

Mechanical and electrical equipment problems. Min Cong J 11:329-32+ Jl '25

Method of suspending feeder cables to many levels. M. S. Beddow. diags Coal Age 24: 965-6 D 27 '23

Metropolitan-Vickers mining switchgear il Elec R (Lond) 94:75-6 Ja 11 '24

Mine electrical man's work makes him resourceful. il Coal Age 28:81-2 Jl 16 '25

Mine substations properly equipped and located help cut down power costs. J. E. Borland. il Coal Age 28:421-5 S 24 '25

Mining switchgear. H. W. Clothier. Electrician 94:660 Je 5 '25

Model colliery electric winding equipment at British Empire exhibition. il diags Engineer 138:65-8 Jl 18 '24

Modernized equipment effects large savings. A. W. Spaht. il Coal Age 28:178-80 Ag 6 '25

Montreal mine's new engine house. L. D. Stewart. il plans Eng & Min J 120:10-11 Jl 4 '25

Motor-generator sets in two substations operated in parallel and controlled from surface. E. B. Wagner. il diag Coal Age 25:593-8 Ap 24 '24

New power house at Whitwood collieries. il Elec R (Lond) 94:541-3 Ap 4 '24

1924 saw many improvements in mine equipment. F. H. Kneeland. il Coal Age 27: 74-6 Ja 15 '25

Old Ben coal corporation effects large savings with modern electric equipment. A. W. Spaht and G. E. Marble. il Coal Age 28:3-6 Jl 2 '25

Oliver iron mining company finishes Soudan electrification. il Eng & Min J 119:895-6 My 30 '25

One company meters its loads at a common point cutting electric bills 19 per cent. A. MacDonald. il diag Coal Age 26:793-5 D 4 '24

Operating records aid in designing new layouts. O. E. Kenworthy. il plan Coal Age 28: 181-2 Ag 6 '25

Poor power factor loads cost more to maintain than to correct. W. B. Snyder. il Coal Age 27:281-4 F 19 '25

Position of the colliery engineer. Elec R (Lond) 94:84-6 Ja 18 '24; Discussion. 94: 198-9, 207-8, 239 F 1-8 '24

Power studies in Illinois coal mining. A. J. Hoskin and T. Fraser. diag map Ill U Eng Exp Sta Bul 144:1-80 '24

Problems of mine electrical men. il Min Cong J 10:263-6 Je '24

Recent progress in use of electricity in coal mines. G. Bright. Coal Age 26:831-2; Discussion. 819-20 D 11 '24

Reclosing equipment for mines. E. L. Hough. il diags Eng & Min J 119:563-7 Ap 4 '25; Correction. 119:724 My 2 '25

Reducing costs by proper supervision of electrical equipment. J. H. Edwards. il charts Coal Age 27:175-9 Ja 29 '25

Reports of the Secretary for mines and H. M. Chief inspector of mines. Elec R (Lond) 97: 165-7 Jl 31 '25; Electrician 95:184 Ag 14 '25

Reports of the Secretary for mines and H.M. Chief-inspector of mines for 1923. Elec R (Lond) 96:84-5 Ja 16 '25

Savings made by static condensers pay for equipment in few months. E. J. Gealy. il Coal Age 27:709-11 My 14 '25

Secretary for mines 2d annual report. Elec R (Lond) 93:764, 806-7, 845-7, 888-9, 949 N 23-D 21 '23; Discussion. 93:881-2; 94:11-12, 51, 90-1 D 14 '23, Ja 4-18 '24

Standardization of underground power transmission. C. Lee. Coal Age 24:923 D 20 '23

Steam versus electricity in colliery practice. G: Raw. Elec R (Lond) 95:174-5 Ag 1 '24

Stripping a twice-worked anthracite basin. F. H. Kneeland. il diag Coal Age 26:789-92 D 4 '24

Suspending armored cables in mines. W. E. Boyle. diags Elec W 83:95 Ja 12 '24

Susquehanna collieries co. is rapidly modernizing its properties and making savings. E. J. Gealy. il diags plan Coal Age 28:209-15 Ag 13 '25

Synchronous motors relieve standby generators. H. D. Fisher. Power Pl Eng 27:1236 D 15 '23

Synchronous motors with magnetic clutches are successfully applied to breaker machinery. E. J. Gealy. il diag Coal Age 28:488-90 O 8 '25

System without red tape keeps costs down. J. H. Edwards. il Coal Age 28:347-54 S 10 '25

Two-unit automatic station with purchased power aids steam plants at mines. L. P. Read. il diag Coal Age 27:753-6 My 21 '25

Use of electricity in coal mines. Elec R (Lond) 95:916-17 D 12 '24

Wembley exhibition colliery. il Elec R (Lond) 94:1007-11, 1032-3 Je 20-27 '24

West Virginia-Kentucky association of mine, mechanical and electrical engineers 4th annual meeting, Huntington, W. Va. Coal Age 26:907-9 D 25 '24; Elec W 84:1322 D 20 '24

Where electric power can be saved. R. L. Grimes. Coal Age 25:472 Mr 27 '24

See also Coal mines and mining—Power; Electric locomotives, Mine; Mine hoisting, Electric; Mine lighting; Mine signals; Mining engineering—Power; Prospecting—Electric method

Safety devices and measures

Care in choosing and maintaining fuse and switches may prevent many accidents. J. F. MacWilliams. il diags Coal Age 26:468-71 O 2 '24

Electrical accidents in mines; report of H.M. electrical inspector of mines for the year 1924. Elec R (Lond) 97:351-2 Ag 28 '25

Electrical safety inspection; suggestions for mine-safety engineers. L. C. Ilsley. Safety Eng 47:168-73 Ap '24; Excerpt. Eng & Min J 118:379-80 S 6 '24

Great Britain revises its mine electrical rules. C. H. S. Tupholme. Coal Age 26: 863-4 D 18 '24

Hazards of electric sparks and arcs in coal mines. L. C. Ilsley. U S Bur Mines Rep of Invest 2626:1-3 Jl '24 (typew); Same. Coal Age 26:434 S 25 '24

How dangerous ground currents were prevented and confidence of workmen regained. E. E. Jones. il Coal Age 26:574-6 O 23 '24

How to ground electrical mining machinery. C: M. Means. Coal Age 25:947-8 Je 26 '24

In any coal mine electricity will bear watching. L. C. Ilsley. il Coal Age 26:223-6 Ag 14 '24

Making electric equipment safe to use. il Coal Age 25:921-2 Je 19 '24

Present trend of electrical safety in coal mines. L. C. Ilsley. Am Inst E E J 43:341-4 Ap '24; Excerpts. Coal Age 25:569-71 Ap 17 '24

ELECTRICITY in mining—Safety devices and measures—*Continued*
Report of H.M. electrical inspector of mines for the year 1923. Elec R (Lond) 96:189-91, 231-2 Ja 30-F 6 '25
Safety in mines research board; second annual report. Elec R (Lond) 95:352-3 S 5 '24
Safety-in-mines research board, 3d report. Elec R (Lond) 97:316-17 Ag 21 '25
Safety in underground use of electricity. J. B. Johnson. il Min Cong J 10:475-6+ O '24; Same. Safety Eng 49:28-31+ Ja '25; Abstract. Elec W 84:1110 N 22 '24
Safety of electricity in coal mines. Engineering 117:179-80 F 8 '24
Should the positive conductor from a mine generator be grounded? Coal Age 26:233-4 Ag 14 '24
Some researches on the safe use of electricity in coal mines. W. M. Thornton. Inst E E J 62:481-91 Je '24; Same cond. Elec R (Lond) 94:231-3, 271-2 F 8-15 '24; Abstract. Electrician 92:162-3 F 8 '24; Discussion. Inst E E J 62:491-513, 918-20; 63:1038-40 Je, N '24, O '25; Elec R (Lond) 94:233, 272 F 8-15 '24; Electrician 92:165, 510 F 8, Ap 25 '24
When is electricity safe? Coal Age 25:565 Ap 17 '24
Wireless mine at Bartley strives for safety. J. H. Edwards. il plan Coal Age 28:359-64 S 10 '25

ELECTRICITY in refrigeration
Application of electric energy to the modern ice making and refrigerating plant. P. Schlingman. diag Refrig Eng 11:165-72; Discussion. 172 N '24
Causes of high power bills in ice plants. C. T. Baker. il Elec W 84:1214-15 D 6 '24
Development of electrical refrigeration for ice-cream retailers. il Elec W 84:890-2 O 25 '24
Electricity in automatic refrigeration. W: Deans. diags Refrig Eng 10:335-44+ Mr '24
Refrigeration and electric power supply. L. R. Morshead and W. M. Selvey. Elec R (Lond) 95:193-4 Ag 1 '24
Synchronous motor drives in refrigerating plant. T. Hibbard. Elec R (Lond) 95:269 Ag 15 '24

See also Electric driving—Ice plants; Ice plants—Electric equipment; Refrigerators, Electric

ELECTRICITY in the home
All-electric housing scheme; the Gateshead corporation enterprise. il Elec R (Lond) 97: 85 Jl 17 '25
Cultivation of, and distribution for, the domestic load. A. Lindsay. Inst E E J 63:25-8 D '24
Demonstrate electrical devices in modern home. F. P. Thomas. il J Elec 54:142 F 15 '25
Electrical contractor electrifies his own home. il plans J Elec 54:180-1 Mr 1 '25
Electricity in the American home. Comm M 6:3-10 F '25
Electricity in the home. W. C. Peet. il diags plans Am Arch 125:99-106 Ja 30 '24
Electricity in the home; the North Metropolitan demonstration house. il Elec R (Lond) 95:54-5 Jl 11 '24
Glasgow corporation's electrically-equipped houses. R. Hardie. il Elec R (Lond) 97: 421-3 S 11 '25
Ideal home exhibition. il Electrician 92:298-9, 335 Mr 7-14 '24; Elec R (Lond) 94:391-2 Mr 7 '24
Larger allowances for fixtures needed in house specifications. Elec J 54:235 Ap 1 '25
Making the house a home. V. Crockwell. il J Elec 51:375 N 15 '23
Modern electric flat. L. L. Robinson. il Elec R (Lond) 94:928, 929-30 Je 6 '24; Discussion. 94:1026; 95:84 Je 20, Jl 11 '24
Sixteen thousand people inspect Japan's first electric home. F. D. Fagan. il J Elec 54: 204-6 Mr 15 '25
Special meeting for women at the I.M.E.A. convention. Elec R (Lond) 96:1013 Je 26 '25
Wembley—and the part it played towards the electric home. W. A. Gillott. Elec R (Lond) 95:804-6 N 28 '24
What is giant power for? M. B. Bruère. Ann Am Acad 118:120-3 Mr '25

See also Electric apparatus and appliances, Domestic; Electric heating; Electric lighting; Electric water heaters; Electric wiring, Interior; Kitchens—Lighting

Cost

Comparative costs of operating a gas and an electric apartment. J Elec 54:247 Ap 1 '25

ELECTRICITY in the petroleum industry
Economies of pumping oil electrically. S. G. Gassaway. il Elec W 86:374 Ag 22 '25
Electric power for oil-well drilling. Elec W 86: 76 Jl 11 '25
Electric power in Oklahoma oil fields. il Elec W 85:1119-22 My 30 '25
Electric power in the oil fields. H. N. Carroll. il J Elec 53:194-8 S 15 '24
Electric power used in drilling 6800 feet deep in Colorado. A. F. Hinton. il Nat Pet N 17:79-80 Je 24 '25
Electricity applied to the winning of crude petroleum, with special reference to the Yenangyoung field, Burma. C. H. McCarthy-Jones. il diags Inst Pet Tech J 10:115-48; Discussion. 148-55 Ap '24
Improved electric rotary oil well drilling device. L. H. Keim. il J Elec 53:364-5 N 15 '24
Midwest about ready to operate its Salt Creek wells electrically. T. R. Ingram. il Nat Pet N 16:60-2 D 3 '24
Pumping oil wells by electric power. P: Luders. il Nat Pet N 16:91 N 12 '24
Use of electricity in the oil fields. W. G. Taylor. Am Pet Inst Bul 4:100-6 D 31 '23; Same. Nat Pet N 15:67-8+ D 26 '23; Same cond. Elec W 83:229-31 F 2 '24
Utilization of electricity in the Salt Creek oil fields. C. H. Vivian. il J Elec 54:359-60 My 15 '25

ELECTRICITY in transportation
Applications of electricity to the lighter forms of transport. W. Nairn. Inst E E J 63:9-12 D '24

ELECTRICITY on ships. See Ships—Electric equipment

ELECTRICITY on the farm
Abstract of I.E.E. committee's report. Elec R (Lond) 97:372-3 S 4 '25; Electrician 95: 205-7 Ag 21 '25
Les applications de l'électricité aux appareils agricoles. P. F. Mousset. Soc Ing Civils Bul 77:279-97, pl 69 Ap '24
Artificial drying of crops. Engineer 138:441 O 17 '24; Engineering 118:554-5 O 17 '24
Bringing power to every farm. O. M. Kile. il Nation's Business 13:44+ O '25
Cost of threshing grain by electric power is 60% less than by steam power as shown by real tests. Pub Serv Management 37:108 O '24
Die einführung der elektrischen bodenfräse. A. Petri. il Elektrotech Zeit 46:405-7 Mr 19 '25
Electric farm; Mr R. Borlase Matthews's farm in Sussex. il Elec R (Lond) 95:94-5 Jl 18 '24
Electric power for orchard spraying. B. D. Moses and W. P. Duruz. il diag plan J Elec 54:129-31 F 15 '25; Discussion. 54:197, 234-5 Mr 15-Ap 1 '25
Electrical equipment for farms. H. A. Carney. il Electrician 95:348-9+ S 25 '25
Electrical equipment in the farm home. E. Davison. il N E L A Bul 12:577-8+ S '25
Electricity and the California dairy farm; report of Pacific coast electrical association. J Elec 54:408-10 Je 1 '25
Electricity en route to agriculture. P. O. Davis. il Manuf Rec 87:79-82 Ap 23 '25
Electricity in agriculture; abstracts. R. B. Matthews. Elec R (Lond) 97:477-8 S 18 '25; Electrician 95:268 S 4 '25
Electricity in agriculture; artificial crop drying as a power load. H. A. Carney. il diag Elec R (Lond) 96:926-8 Je 12 '25
Electricity, the creator of happy farm homes. S. M. Kennedy. N E L A Bul 11:735-7+ D '24

ELECTRICITY on the farm—*Continued*
Electricity to plough land all night while farmer sleeps. B. C. Forbes. N E L A Bul 11:552-4 S '24
Electrification of farms in Sweden. T. Holmgren. il diags map Elec W 83:178-82 Ja 26 '24
Electrified farm. G: H. Morse. Ann Am Acad 118:43-6 Mr '25
Electro-farming and its future. R. B. Matthews. il diag Elec R (Lond) 91:619-20, 737-9, 818-19, 932; 92:566, 807-8; 93:454-5, 847-50 N 3, 17, D 1, 22 '22, Ap 13, My 25, S 28, D 7 '23
Electro-farming conference, Chester, July 8. Elec R (Lond) 97:128-9 Jl 24 '25
Farm electrification in New York state and how it can be achieved. O. D. Young. Econ W n s 29:544-7 Ap 18 '25; Same. N E L A Bul 12:288-92 My '25; Same abr. Gen Elec R 28:214-18 Ap '25; Same cond. Am Bankers Assn J 17:685-7 My '25; Excerpts. Elec W 85:786 Ap 11 '25
French electro-farming congress and exhibition. R. B. Matthews. diag Elec R (Lond) 95:686-7, 724-5 N 7-14 '24
French rural electrification; technical progress as reflected by the Lyons congress. H. A. Carney. Electrician 93:550-1+, 640 N 14, D 5 '24
Getting on a working basis to solve the rural electrification problem. C: F. Stuart. il N E L A Bul 11:667-70 N '24
Middle West rural service. Elec W 85:1041 My 16 '25
Model electrified ranch in Nebraska. il N E L A Bul 11:160-1 Mr '24
Need for certain changes in farm practice before electric power can be used efficiently on farms. F. W. Duffee. Elec W 85:1000 My 9 '25
Power on the farm in U.S.A. C. D. Kinsman. Elec W 85:239-42 Ja 31 '25; Same abr. Elec R (Lond) 96:997 Je 19 '25
Progress in rural electric service. Power Pl Eng 29:852-4 Ag 15 '25
Progress in rural service study. A. M. Perry. il Elec W 84:1253-7, 1297-1301 D 13-20 '24
Report of the Electricity in agriculture committee to the council. Inst E E J 63:838-42 Ag '25
Royal agricultural society's show. il Electrician 95:62-3 Jl 17 '25; Elec R (Lond) 97:86, 128-9, 193-4 Jl 17-31 '25
Rural electrification. R. H. Rogers. il Gen Elec R 28:634-9 S '25
Rural electrification in California. B. D. Moses and G: C. Tenney. il J Elec 54:581-5 Je 15 '25
Rural electrification in Pennsylvania. R. U. Blasingame. il Elec W 85:713-15 Ap 4 '25
Scattered experiences with farm applications. Elec W 86:706 O 3 '25
Shall we electrify agriculture? P. O. Davis. il N E L A Bul 11:603-8 O '24
Snook O'Briens model diversified electrical farm. J: W. Otterson. il J Elec 54:591-4 Je 15 '25
Some difficulties and possible remedies standing before rural electrification. W. M. Jardine. N E L A Bul 12:446-7 Jl '25
Taking electricity to California farms and farm homes. J. P. Fairbank. il J Elec 54: 12-15 Ja 1 '25
Threshing as a possible rural load. Elec W 84: 1009 N 8 '24
Transmission requirements for farm machinery. Elec W 86:370 Ag 22 '25
Use of electric power in agriculture. J. B. Davidson. il N E L A Bul 12:569-72 S '25
Utilization of electricity on California farms. L. J. Fletcher. J Elec 53:396-8 D 1 '24
What 17 organized states have accomplished in rural electrification. N E L A Bul 12: 554-68 S '25
What will electricity do for agriculture? N E L A Bul 11:146-7 Mr '24
Wind power for farm electric plants. F. J. Pancratz. Mech Eng 46:675-80; Discussion. 680-2 N '24
World's experience with rural electrification. H. Evans. Ann Am Acad 118:30-42 Mr '25

See also Electric service, Rural; Electrohorticulture; Farm lighting plants; Incubators, Electric; Plows, Electric

ELECTRICITY supply
Electric power saturation. H. E. M. Kensit. Can Eng 48:347-8 Mr 24 '25
Electricity supply; its present position and future possibilities. R. B. Mitchell. Electrician 91:636 D 7 '23

See also Electric lines; Electric plants

Australia
Australian power projects. Sci Am 131:23 Jl '24

California
Battling with a power shortage. R. H. Ballard. il Elec W 85:87-9 Ja 10 '25
California power shortage of 1924. H. G. Butler. il Elec W 85:193-7 Ja 24 '25
California's opportunity and the utility's responsibility. R. H. Ballard. J Elec 51:368-9 N 15 '23

Canada
Electrical development in the Dominion of Canada. F: A. Gaby. Ann Am Acad 118:21-9 Mr '25

Czechoslovakia
Stand der elektrizitätsversorgung der Tschechoslowakei. G. W. Meyer. map Zeit Ver Deutsch Ing 69:147-8 F 7 '25

Finland
Die kraftquellen und die kraftversorgung Finnlands. F. Ohlmüller. maps Elektrotech Zeit 46:659-63 Ap 30 '25

France
Development of electricity in France. A. Antoine and A. Libault. Ann Am Acad 118: 10-13 Mr '25
Electrical developments in France. E. M. Malek. Electrician 92:487 Ap 18 '24
Electrical enterprise in France. Elec R (Lond) 96:685-6 My 1 '25
Regulation of the import and export of electrical energy. A. Bouchayer. Engineering 120:209-13 Ag 14 '25

See also Electric lines—France

Germany
Electric power in the German commonwealth. H. Lerchenfeld. maps Ann Am Acad 118: 14-20 Mr '25
Electrification of Germany. Elec W 84:685 S 27 '24
Die elektrizitätsversorgung Schleswig-Holsteins und West-Mecklenburgs. G: Scheehl. map Elektrotech Zeit 45:771-4 Jl 17 '24
Grundsätzliches zur deutschen elektrizitätswirtschaft. G. Klingenberg. Zeit Ver Deutsch Ing 68:1168-70 N 8 '24
Das 100 kv-netz der sächsischen landesversorgung. A. Rachel. diags map Elektrotech Zeit 45:21-5, 53-9 Ja 10, 24 '24
Ist energiegewinnung selbstzweck? Lasser. Elektrotech Zeit 46:332-5 Mr 5 '25
Truth about Germany's industrial revival. P. Dawson. Ind Management 70:58-9 Jl '25
Zur statistik der elektrizitätsversorgung Deutschlands. Dr Thierbach. Elektrotech Zeit 46:1509-11 O 1 '25

Great Britain
Are supply authorities doing their utmost to develop the demand for electricity? W. H. Thickett. Elec R (Lond) 97:73-4; Discussion. 74-5 Jl 10 '25
British electric power supply. H. D. Butler. Elec W 84:841-2 O 18 '24
Conditions in the Warrington area. T. Weston. il Electrician 92:359 Mr 21 '24
Electric power survey of Britain. Economist 101:50-1 Jl 11 '25
Electrical development debate in Parliament. Electrician 94:636-7 My 29 '25

ELECTRICITY supply—Great Britain—*Cont.*
Electrical development in England. W. H. Onken, jr. il maps Elec W 82:1055-8 N 24 '23
Electricity in party programmes. Elec R (Lond) 95:612 O 24 '24
Electricity supply. H. C. Lamb. Elec R (Lond) 95:757-8 N 14 '24
Electricity supply in Great Britain. map Elec R (Lond) 97:568-9; 610-11, 648-9, 690-2 O 9-30 '25
Electricity supply—some tendencies. C. O. Brettelle. Inst E E J 62:114-18 Ja '24
4th report of the electricity commission. Engineering 118:377 S 12 '24; Electrician 93: 286-7 S 12 '24; Elec R (Lond) 95:426-7, 482-3, 522-3, 557 S 19-O 10 '24
Furthest north electricity supply; the Kirkwall and District electricity scheme. Electrician 92:289 Mr 7 '24
Inaugural address before the Institution of electrical engineers; abstracts. R. A. Chattock. Elec R (Lond) 97:692-3 O 30 '25; Electrician 95:496-7 O 30 '25; Engineering 120: 548-9 O 30 '25
Leicester's electrical progress. M. P. Dare. il Electrician 92:297 Mr 7 '24
National electric power. R. C. Anderson. Elec R (Lond) 96:644-5, 686-8, 749-50 Ap 24-My 8 '25; Discussion. 96:809 My 22 '25
National electricity supply. Economist 100: 1012-13, 1064-5 My 23-30 '25
National electricity supply. G: V. Twiss. Electrician 94:88-90, 116-18 Ja 23-30 '25
Power development in Great Britain. H. Blankenhorn. Ann Am Acad 118:1-9 Mr '25
Provincial electricity supply undertakings. H. Renwick. Elec R (Lond) 93:711-12 N 9 '23
West Riding (Aire and Calder) electricity district. Elec R (Lond) 94:312-13, 354-5 F 22-29 '24

See also Electricity supply—London

Iraq

Electricity in Iraq. Elec R (Lond) 95:680 O 31 '24

Ireland

Electrification of the Irish Free State. diags Engineering 119:662-3, 694-5, 725-7 My 29-Je 12 '25; Abstract. Génie Civil 87:311-13 O 10 '25

Italy

Electrical progress in Italy. Electrician 95:181 Ag 14 '25

See also Electric plants (central stations)—Italy; Hydroelectric plants—Italy

Japan

Earthquake in Japan. Electrician 95:148-9 Ag 7 '25; Elec R (Lond) 97:394-6 S 4 '25

London, England

Developments in Greater London. J. H. Savage. il Electrician 92:329-30 Mr 14 '24
Electricity situation in London. Engineering 116:701-2 D 7 '23
London and home counties electricity district. Elec R (Lond) 94:593, 744, 786-8, 860-2; 95:211-12 Ap 11, My 9-23, Ag 8 '24; Electrician 92:579-80, 608-9, 640-1 My 9-23 '24
London electricity supply problem. Elec R (Lond) 94:899-901, 941-3, 981-2, 1021-2 My 30-Je 20 '24
London's electricity supply, 1922-23. Elec R (Lond) 95:798-9, 873 N 21, D 5 '24
London's electricity supply; three new measures inaugurating a new era. Elec R (Lond) 97:269-70 Ag 14 '25

Massachusetts

Summary and general conclusions of the report to the associated industries of Massachusetts of its power investigating committee. Boston Soc C E J 11:223-7 My '24

New England

Advisory board submits report on New England power. Eng N 92:770-1 My 1 '24; Power 59:725-8 My 6 '24; Textile World 65:3175+ My 10 '24
Power requirements and sources of supply of New England. C: T. Main, H: I. Harriman and D. C. Jackson. Boston Soc C E J 11: 193-219; Discussion. 219-22 My '24

Northeastern states

Engineers' committee reports on northeastern super-power; abstracts. map Eng N 93:186-8 Jl 31 '24; Power 60:179-82 Jl 29 '24; Elec W 84:205-7 Ag 2 '24; Iron Tr R 75:359 Ag 7 '24; N E L A Bul 11:543-4 S '24; Discussion. Elec W 84:418, 686 Ag 30, S 27 '24

Norway

Export of electrical power from Norway. S. Kloumann. Engineering 118:213-14 Ag 8 '24
Transmission of electric power from Norway to Denmark. A. R. Angelo and W: Rung. Engineering 118:114 Jl 18 '24

Palestine

Electrical developments in Palestine. H. Home. il maps Engineering 119:35-6 Ja 9 '25

Pennsylvania

Industrial power of the Pittsburgh district outside that of the iron and steel industry. S. B. Ely and W. F. Rittman. il maps Mech Eng 46:861-5 D '24
Le projet d'aménagement électrique de l'état de Pensylvanie. A. Antoine. diags Génie Civil 86:580-1 Je 13 '25

Russia

Electrification schemes in Russia. B. L. Metcalf and O. Morduch. maps Inst E E J 62: 932-5 N '24
Report from Russian information bureau, Moscow. Am Inst E E J 46:457 My '25
Soviet plans for Russian power. Elec W 85: 1312 Je 20 '25

Scotland

West of Scotland electricity district. map Elec R (Lond) 94:356-7 F 29 '24

South Africa

Electricity supply in South Africa. Engineer 138:131-2 Ag 1 '24
Municipal electricity undertakings of South Africa. Elec R (Lond) 96:1004-6 Je 26 '25

Ulster

Electricity supply in Ulster. Elec R (Lond) 97:157 Jl 24 '25

United States

First electric power survey. map Pub Serv Management 37:9-13 Jl '24
Middle West power in 1950. maps Elec W 84: 64-5 Jl 12 '24
National electric service. G, E. Tripp. Elec J 22:255-7 Je '25

See also Electric plants (central stations)—United States; Electric utilities—United States; Hydroelectric plants—United States

Wales

Progress in South Wales. P. J. Plevin. Electrician 92:733 Je 13 '24

ELECTROAFFINITY
Electronegative potential series in liquid ammonia. F. W. Bergstrom. Am Chem Soc J 47:1503-7 Je '25
Properties of the elements in the electronegative condition. C: A. Kraus. Am Electrochem Soc Trans v 45 (preprint 29):379-90 N '23

ELECTROCAPILLARITY
Effect of an electric current on the motion of mercury globules in dilute sulphuric acid, and its bearing on the problem of the electrolytic double layer. J. E. P. Wagstaff. diags Philos Mag 6th ser 47:802-15 My '24

ELECTROCHEMICAL analysis
Platinized alundum cathodes in electro-analysis. W. G. France and T. S. Eckert. Ind & Eng Chem 16:802-3 Ap '24

ELECTROCHEMICAL analysis—*Continued*
Séparation du nickel et du fer d'avec le chrome par électrolyse. E. Rousseau. Chimie & Ind 13:199-201 F '25
Use of the lead cathode in the electrolytic method for the determination of minute quantities of arsenic. T. Callan. Soc Chem Ind J 43:168-70 My 30 '24

ELECTROCHEMICAL industries
Die chemie auf der Londoner weltkraftkonferenz. H. Grossman. Zeit Ver Deutsch Ing 69:93-7 Ja 24 '25

See also Electrometallurgy

Canada

View of the outlook in Canadian electrochemical and electrometallurgical industries. L. E. Westman. Can Chem & Met 9:121-2 My '25; Same. Chem Age (Lond) 13:101 Jl 25 '25

France

Electro-chemical industry in France developed since the war. Chem & Met Eng 32:829 O '25

Germany

Geschäftsbericht des zentralverbandes der deutschen elektrotechnischen industrie E. V. für 1923/24. H. v. Raumer. Elektrotech Zeit 45:714-17, 743-5 Jl 3-10 '24

ELECTROCHEMICAL society, American. See American electrochemical society

ELECTROCHEMISTRY
Amphoteric character of gelatine and its bearing on certain electrochemical phenomena. P. K. Frölich. il Am Electrochem Soc Trans v 46 (preprint 11):153-69 O '24
Electrochemical oxidation of aromatic hydrocarbons. F. Fichter. Am Electrochem Soc Trans v 45 (preprint 6):75-95 Ap '24
Electrochemical oxidation of toulene to benzaldehyde. C: A. Mann and P. M. Paulson. bibliog Am Electrochem Soc Trans v 47 (preprint 3):31-42 Ap '25
Electrochemical relation of free radicals to halochromic salts. J. B. Conant, L. F. Small and B. S. Taylor. Am Chem Soc J 47:1959-74 Jl '25
Electrochemistry of gases. S. C. Lind. Am Electrochem Soc Trans v 44 (preprint 7): 61-9 S '23; Same. Brass W 20:101-3 Mr '24
Electro-chemistry related to engineering. W. R. Cooper. 150p Van Nostrand '23
Equilibrium of carbon dioxide with carbon monoxide and oxygen in the corona discharge. G. L Wendt and M. Farnsworth. diag Am Chem Soc J 47:2494-2500 O '25
Function of peroxides and peracids in the electrochemical oxidation of organic compounds. F. Fichter. Am Electrochem Soc Trans v 45 (preprint 16):231-54 Ap '24
Periodic electrochemical phenomena. E. S. Hedges and J. E. Myers. Chem Soc J 127: 1013-26 My '25
Present status of applied organic electrochemistry. C: J. Thatcher. Am Electrochem Soc Trans v 45 (preprint 22):299-302 Ap '24; Same. Chem Age 32:177 Ap '24
Principles and applications of electrochemistry. H: J. M. Creighton. v 1 Wiley '24
Principles of applied electrochemistry. A. J: Allmand. 2d ed., rev. & enl. 727p Longmans '24
Proceedings of the first World power conference; electro-chemistry and electro-metallurgy. Engineering 118:116-17 Jl 25 '24
La situation actuelle de l'électrochimie et de l'électrométallurgie. G: Flusin. Génie Civil 85:351-2 O 18 '24
Some advances in applied electrochemistry. M. De K. Thompson. il diags Brass W 21: 115-19 Ap '25
Some electrochemical aspects of the oxidising properties of sulphur dioxide. S. R. Carter and F. James. Chem Soc J 125:2231-40 N '24
Theoretical and applied electrochemistry. M. de K. Thompson. rev. ed. 551p Macmillan '25

See also Chemistry, Physical and theoretical; Electric batteries; Electric precipitation; Electrochemical analysis; Electrochemical industries; Electrodeposition of metals; Electrodes; Electrolysis; Electrolytes; Electrolytic cells; Electrometallurgy; Electromotive force; Electroplating; Electrosynthesis; Electrotyping; Ionization, Electrolytic; Overvoltage; Reduction, Electrolytic

ELECTRODEPOSITION of metals
Amphoteric character of gelatine and its bearing on certain electrochemical phenomena. P. K. Frölich. il Am Electrochem Soc Trans v 46 (preprint 11):158-69 O '24
Copper wire production; some notes on electrolytic methods of manufacture. S. Cowper-Coles. il diags Electrician 92:658-60 My 30 '24
Current distribution and throwing power in electrodeposition. H. E. Haring and W. Blum. diags Am Electrochem Soc Trans v 43 (preprint 28):365-97 My '23; Same. Brass W 19:359-64, 395-9 N-D '23
Electrodeposition of metals: a review of the last two years. W. E. Hughes. Electrician 91:628-30 D 7 '23
Electrodeposition of metals from fused electrolytes. A. H. W. Aten, H. J. den Hertog and L. Westenberg. il Am Electrochem Soc Trans v 47 (preprint 4):43-52 Ap '25
Electrodeposition of zinc. A. L. Marshall. Elec R (Lond) 97:130 Jl 24 '25
F'escol electro-deposition process. il Chem Age (Lond) 10:647-8 Je 21 '24; Engineer 138: 193 Ag 15 '24; Elec R (Lond) 95:714 N 7 '24
Hardness of electro-deposited iron, nickel, cobalt, and copper. D. J. Macnaughtan. Iron & Steel Inst J 109:409-24, pl 23-5a [bibliog. p. 423-4] no 1 '24; Same cond. Engineering 118:599-600 O 24 '24; Discussion. Iron & Steel Inst J 109:425-31 no 1 '24
Hardness of electro-deposited metals. R. H. Greaves. Engineer 140:sup141-3 S 25 '25
Hydrogen in zinc cathodes. O. C. Ralston. il Am Electrochem Soc Trans v 47 (preprint 5):53-8 Ap '25
Introduction of carbonaceous matter in electrodeposited iron and nickel. P. K. Frölich. Am Electrochem Soc Trans v 46 (preprint 12):171-87 O '24
Making metal patterns by electro-deposition. W: J. Reardon. il Metal Ind 21:499-500 D '23; Discussion. 22:73-4 F '24
Orientations of crystals in electro-deposited metals. R: M. Bozorth. il charts diag Phys R 26:390-400 S '25
Platinized alundum cathodes in electro-analysis. W. G. France and T. S. Eckert. Ind & Eng Chem 16:802-3 Ag '24
Relation between polarization and structure in the electrodeposition of metals. V. Kohlschutter. Am Electrochem Soc Trans v 45 (preprint 5):63-74 Ap '24; Same. Brass W 20:385-8 N '24
Repair by electro-deposition. J. P. McLare. Electrician 92:594-5 My 16 '24
Some relations between the microstructure of metal surfaces and electrodeposits made thereon. A. K. Graham. il Am Electrochem Soc Trans v 44 (preprint 10):101-14 S '23; Same. Brass W 20:3-7 Ja '24
Static potentials of copper in solutions of copper cyanide in sodium cyanide and in potassium cyanide, and of zinc in solutions of zinc cyanide in sodium cyanide. W. M. Walker, J. H. Sorrels and J. M. Breckenridge. Am Electrochem Soc Trans v 48 (preprint 12):113-24 S '25

See also Electroplating

ELECTRODEPOSITION of rubber
Electrodeposition of rubber. S. E. Sheppard and L. W. Eberlin. il diags Ind & Eng Chem 17:711-14 Jl '25
Electrodeposition of rubber coatings; patent. diag Rubber Age 14:338-9 F 10 '24

ELECTRODES
Arc welding with metallic electrodes. W. L. Warner. il Chem & Met Eng 32:206-8 F 2 '25

ELECTRODES—*Continued*
Barium and strontium amalgam electrodes. P. S. Danner. diags Am Chem Soc J 46:2385-90 N '24
Behavior of electrodes of platinum and platinum alloys in electrometric analysis; dissimilar electrodes. R. G. Van Name and F. Fenwick. Am Chem Soc J 47:9-19 Ja '25
Behavior of electrodes of platinum and platinum alloys in electrometric analysis; polarized electrodes. R. G. Van Name and F. Fenwick. Am Chem Soc J 47:19-29 Ja '25
Chemical analyses of special electrodes. Foundry 52:220a, 270a Mr 15-Ap 1 '24
Commutator measurements on polarized electrodes. M. Knobel. diag Am Chem Soc J 46:2613-21 D '24
Depolarization of the chlorine electrode by organic compounds. M. A. Youtz. Am Chem Soc J 46:545-54 Mr '24
Electrode enrobée, pour la soudure à l'arc. Génie Civil 86:216-17 F 28 '25
Electrolytic preparation of potassium bromate with carbon electrodes. D. T. Ewing and H. W. Schmidt. Am Electrochem Soc Trans v 47 (preprint 11):133-7 Ap '25
Electrometric titration of chromic acid using the hydrogen electrode, and the oxygen electrode. H. T. S. Britton. Chem Soc J 125: 1572-82 Ag '24
Experimental studies on the hydrogen electrode. H. T. Beans and L. P. Hammett. diag Am Chem Soc J 47:1215-26 My '25
How to weld cast iron with a self-fluxing electrode. Coal Age 26:806, 853-4 D 4-11 '24
Hydrolysis of iodine as measured by the iodine electrode. H. D. Murray. Chem Soc J 127:882-5 Ap '25
Improved calomel electrode. C. J. Schollenberger. diag Ind & Eng Chem 17:649 Je '25
Insoluble anodes for electrolysis of brine; the lead-silver series. C. G. Fink and Li Chi Pan. Am Electrochem Soc Trans v 46 (preprint 8):129-35 O '24
Instability of phthalate solutions toward the hydrogen electrode. C. Z. Draves and H. V. Tartar. Am Chem Soc J 47:1226-30 My '25
Method of studying electrode potentials and polarization. H. D. Holler. il diags U S Bur Stand Sci Pa 504:153-66 '25
Nickel anodes. C. T. Thomas and W. Blum. il Am Electrochem Soc Trans v 45 (preprint 10):135-56 Ap '24
Porous electrode for oxidations or reductions. M. Knobel. Ind & Eng Chem 17:826 Ag '25
Potentiometric hydrogen-ion measurements with non-gas electrodes. H: C. Parker. il Ind & Eng Chem 17:737-40 Jl '25
Preparation of electrolytic mercurous chloride in saturated potassium chloride for use in the calomel electrode. W. W. Ewing. diag Am Chem Soc J 47:301-5 F '25
Sheathed electrode and an example of its application to the automatic welding of galvanized tanks. B. C. Tracey. il Gen Elec R 27:772-3 N '24
Studies of electric discharges in gases at low pressures. I. Langmuir and H. Mott-Smith jr. diags Gen Elec R 27:538-48, 616-23, 762-71, 810-20 Ag-S, N-D '24
Studies of electrolytic polarisation; the cathodic overvoltage of lead. S: Glasstone. Chem Soc J 125:2414-23 N '24
Temperature coefficient of the quinhydrone electrode. E. Biilmann and I. Krarup. Chem Soc J 125:1954-6 S '24
Use of the quinhydrone electrode for the estimation of amino-acids and of acid and basic functions. L. J. Harris. Chem Soc J 123:3294-3303 D '23
Welded cast-iron specimens reveal strength of electric process. il Coal Age 26:842 D 11 '24

See also Cathodes; Electric furnaces—Electrodes; Electrolysis; Overvoltage

Manufacture

How chemical research made a South African industry independent of imported electrodes. E. H. E. Selvey. Chem Age 32: 171-4 Ap '24

Specifications

Specifications for welding electrodes. Foundry 53:106a, 144a F 1-15 '24

ELECTRODYNAMICS
Oscillographic determination of the thermionic triode static characteristics. A. Kalin. Washington (state) U Eng Exp Sta Bul 30:1-28 '24

See also Inductance; Mutual inductance

ELECTRO-ENDOSMOSIS. See Osmosis

ELECTROGALVANIZING. See Galvanizing

ELECTROHORTICULTURE
Electrocultural research. Elec R (Lond) 94: 819 My 16 '24
Electroculture in 1755. Elec R (Lond) 96:364 Mr 6 '25
Electro-farming; intensive illumination on a market garden. R. B. Matthews. il Elec R (Lond) 97:685-7 O 30 '25
Le labourage électrique. Guedeney. diag Soc Ing Civils Bul 77:314-23, pl 71 Ap '24
Making plants work overtime by means of electric light. il Sci Am 130:91 F '24

ELECTROLYSERS. See Electrolytic cells

ELECTROLYSIS
Anode effect. C. S. Taylor. Am Electrochem Soc Trans v 47 (preprint 14):161-71 Ap '25; Same. Brass W 21:231-4 Jl '25
Anode phenomena in the electrolysis of potassium ethyl malonate. J: B. Robertson. Chem Soc J 127:2057-67 S '25
Catalytic electrolytic generation of oxygen. C. G. Fink. Ind & Eng Chem 16:566-7 Je '24
Concentration and polarization at the cathode during electrolysis of solutions of copper salts. W. L. Miller. il J Fr Inst 199:773-83 Je '25
Disintegration of carbon anodes in aqueous solutions of nitric acid. H. J. M. Creighton and W. H. Ogden. Am Electrochem Soc Trans v 48 (preprint 17):161-5 S '25
Effect of colloids in the displacement of lead and copper from their salts by zinc. L. T: M. Gray. Chem Soc J 127:776-80 Ap '25
Effect of hydrophilic colloids on size and distribution of particles in electrolytic precipitation; gelatin and basic lead carbonate. W. G. France and D. McBurney. Am Chem Soc J 46:540-4 Mr '24
Electrode reactions and equilibria; Faraday society discussion. Elec R (Lond) 94:35-6 Ja 4 '24
Electrolysis in liquid sulfur dioxide. H. P. Cady and R. Taft. diags J Phys Chem 29: 1075-84 S '25
Electrolysis of hypochlorite solution. F. Foerster. Am Electrochem Soc Trans v 46 (preprint 7):101-28 O '24
Electrolysis of potassium oleate. G: W: F. Holroyd and J. E. W. Rhodes. diag Chem Soc J 125:438-42 F '24
Electrolysis of soda-lime glass. J. W. Rebbeck, M. J. Mulligan and J. B. Ferguson. diag Am Cer Soc J 8:329-37 [bibliog. p. 337-8] Je '25
Electrolysis of soda-lime glass; evolution of gas and its relation to sorption and conductivity. J. W. Rebbeck and J. B. Ferguson. diags Am Chem Soc J 46:1991-2002 S '24
Electrolytic calcium arsenate. S. J. Lloyd and A. M. Kennedy. plan Chem & Met Eng 32:624-6 Jl '25
Electrolytic caustic soda and Solvay processes. P. Parrish. il diag Chem Age (Lond) 10: 666-8; 11:114-17 Je 28, Ag 2 '24
Electrolytic hydrogen plant for France. Elec W 86:800 O 17 '25
Electrolytic introduction of alkyl groups. J. M. Nelson and A. M. Collins. diag Am Chem Soc J 46:2256-67 O '24
Electrolytic preparation of *p*-phenylenediamine, aminosalicylic acid, succinic acid, and hydrocinnamic acid. J. F. Norris and E. O. Cummings. Ind & Eng Chem 17:305-7 Mr '25

ELECTROLYSIS—*Continued*
Electrolytic preparation of potassium bromate with carbon electrodes. D. T. Ewing and H. W. Schmidt. Am Electrochem Soc Trans v 47 (preprint 11):133-7 Ap '25
Electrolytic preparation of salicylic aldehyde from salicylic acid. K. S. Tesh and A. Lowy. Am Electrochem Soc Trans v 45 (preprint 24):325-33 Ap '24
Electrolytic production of chlorine gas. A. L. Googins. Am Water Works Assn J 13:207-12 F '25
Electrolytic production of cobalt and nickel triacetates from the diacetates; the electrolytic production of nickel trichloride. C. Schall and H. Markgraf. diag Am Electrochem Soc Trans v 45 (preprint 8):119-28 Ap '24
Electrolytic protection of boilers; Renger-Fuhrman process; abstract. H. Manz. Mech Eng 46:636-7 O '24
Hydrogen for synthetic ammonia production; electrolytic plant for Italian works. il Chem Age (Lond) 12:244-5 Mr 14 '25
Intermittent current electrolysis; over-voltage study of the lead electrode. S: Glasstone. diags Chem Soc J 123:2926-34 N '23
Intermittent current electrolysis; the measurement of overvoltage. S: Glasstone. Chem Soc J 125:250-60 Ja '24
Knowles electrolytic plant at the Bussi works of the Società Italiana di elettrochimica. il Soc Chem Ind J (Chem & Ind) 44:131-2 F 6 '25
Mather and Platt electrolyser. Engineering 117:780 Je 13 '24
Modern practice in electrolytic chlorine-caustic production. H. J. Payne. il diag Chem & Met Eng 31:334-8 S 1 '24
Organic chemicals electrolytically produced; symposium. Chem & Met Eng 30:699-700 My 5 '24
Practicability of preparing sodium hydrosulfite by electrolytic methods. R. H. McKee and N. E. Woldman. Color Tr J 15:98-100 O '24
Production of chromates from ferro-chromium anodes. M. deK. Thompson. Am Electrochem Soc Trans v 46 (preprint 3):37-50 O '24
Reactions of cations and anions. W: L. Estabrooke. 92p Oxford book co., New York '23
Recovering tin from tin cans; electrolytic process. I. Ginsberg. Iron Age 116:473-4 Ag 20 '25
Studies of electrolytic polarisation. S. Glasstone. Chem Soc J 125:2414-23, 2646-56; 127:1824-31 N-D '24, Ag '25
Velocity of the hydrogen electrode reaction on platinum catalysts. L: P. Hammett. Am Chem Soc J 46:7-19 Ja '24
Why not make our metallic sodium from common salt? H. Danneel. diags Chem & Met Eng 32:244-7 F 9 '25

See also Electrochemical analysis; Electrodes; Electrolytes; Electrolytic cells; Electrolytic corrosion; Electrometallurgy; Ions; Metal cleaning, Electrolytic; Overvoltage; Reduction, Electrolytic; Sewage disposal—Electrolytic treatment

ELECTROLYTES
Activities of strong electrolytes; a revision of the activity coefficients of potassium, sodium, and lithium chlorides, and potassium hydroxide. G: Scatchard. Am Chem Soc J 47:648-61 Mr '25
Activities of strong electrolytes; the activity of hydrochloric acid derived from the electromotive force of hydrogen-silver-chloride cells. G: Scatchard. diags Am Chem Soc J 47:641-8 Mr '25
Activities of strong electrolytes: the use of the flowing junction to study the liquid-junction potential between dilute hydrochloric acid and saturated potassium chloride solutions; and the revision of some single-electrode potentials. G: Scatchard. diag Am Chem Soc J 47:696-709 Mr '25
Activity coefficients and transport number of solutions of hydrogen chloride in methyl alcohol. G. Nonhebel and H. Hartley. Philos Mag 6th ser 50:729-49 O '25
Activity coefficients of ions in very dilute solutions. J. N. Brönsted and V: K. La-Mer. diag Am Chem Soc J 46:555-73 Mr '24
Activity of strong electrolytes; the application of the Debye-Hückel equation to alcoholic solutions. G: Scatchard. Am Chem Soc J 47:2098-2111 Ag '25
Adsorption and Schulze's law. H. B. Weiser. J Phys Chem 29:955-65 Ag '25
Adsorption by precipitates. H. B. Weiser. J Phys Chem 28:232-44 Mr '24
Change in concentration of electrolytic impurities. M. deK. Thompson. Chem & Met Eng 32:700 Ag '25
Decomposition potentials and polarization of certain heavy metallic chlorides dissolved in anhydrous pyridine. R. B. Mason and J. H. Mathews. diags J Phys Chem 29: 1379-93 N '25
Effect of certain impurities in storage battery electrolytes. G. W. Vinal and F. W. Altrup. il Am Inst E E J 43:313-20 Ap '24
Electrical dispersion of liquids. V: Cofman. diags. J Phys Chem 29:1289-1302 O '25
Electrolytes and ionogens. W. Blum. Am Electrochem Soc Trans v 47 (preprint 8): 99-102 Ap '25; Same. Brass W 21:194 Je '25
Equilibria between metals and fused salts. R: Lorenz. Am Electrochem Soc Trans v 47 (preprint 22):243-58 Ap '25
Freezing points of very dilute solutions of electrolytes. F. Hovorka and W. H. Rodebush. diag Am Chem Soc J 47:1614-24 Je '25
Fused electrolytes—a brief historical sketch. C. J. Brockman. Am Electrochem Soc Trans v 47 (preprint 17):203-6 Ap '25
Inter-ionic attraction theory of ionized solutes; testing of the theory in alcoholic solvents. A. A. Noyes and W. P. Baxter. Am Chem Soc J 47:2122-9 Ag '25
Inter-ionic attraction theory of ionized solutes; the influence of variation of dielectric constant on the limiting law for small concentrations. P. Debye and L. Pauling. Am Chem Soc J 47:2129-34 Ag '25
Storage battery electrolytes. G. W. Vinal and G. N. Schramm. Am Inst E E J 44:128-32 F '25; Same cond. Power 61:509-10 Mr 31 '25; Discussion. Am Inst E E J 44:644-5 Je '25
Studies in emulsions. W: Seifriz. diag J Phys Chem 29:595-600 My '25
Studies in heterogeneous equilibria; the solubility of strong electrolytes. J. A. V. Butler. J Phys Chem 28:438-48 My '24
Studies on adsorption. K. C. Sen, P. B. Ganguly and N. R. Dhar. J Phys Chem 28: 313-32 Ap '24
Symposium on fused electrolytes. il Chem & Met Eng 32:495-7 My '25
Theory of interionic attraction in strong electrolytes. S. R. Pike and G. Nonhebel. Philos Mag 6th ser 50:723-8 O '25

See also Electric batteries; Electrochemistry; Electrodes; Electrolysis; Electrolytic cells; Hydrochloric acid; Ionization, Electrolytic; Solution (chemistry)

Conductivity
Conductivity of electrolytes. C. W. Davies. J Phys Chem 29:473-81, 973-86 Ap, Ag '25
Study of the electrolytic dissociation of some salts in furfural. F: H. Getman. J Phys Chem 28:212-20 Mr '24

ELECTROLYTIC cells
Bi-polar electrode electrolysers for the production of bleaching liquors. G. G. Hepburn. il diags plan Soc Dyers & Col J 40: 251-6 Ag '24
Calibration of cells for conductance measurements; absolute measurements on the specific conductance of certain potassium chloride solutions. H: C. Parker and E. W. Parker. diags Am Chem Soc J 46:312-35 F '24
Canadian salt company's processes for the manufacture of alkali-chlorine products. D. A. Pritchard and G. E. Gollop. il diag Ind

ELECTROLYTIC cells—*Continued*
& Eng Chem 16:1056-7 O '24; Same. Can Chem & Met 8:210-11 S '24; Same. Chem Age (Lond) 11:346 O 4 '24
Cleaning cans with electricity. il Chem & Met Eng 32:283-4 F 16 '25
Common occurrence of corrosion by electrolyte concentration cells. R. J. McKay. Ind & Eng Chem 17:23-4 Ja '25
Complexity of the industrial chemist. H. K. Moore. il diags Ind & Eng Chem 17:206-9 F '25; Same. Oil Paint & Drug Rep 107:67+ Ja 26 '25; Same. Chem Age 33:50-3 F '25; Same. Soc Chem Ind J (Chem & Ind) 44: 1086-90 N 6 '25
Direct measurement of polarization capacity and phase angle. C. W. Miller. Phys R 22: 622-8 D '23
Electrolysers for the production of sodium hypochlorite. Engineering 119:284-6 Mr 6 '25
Electrolytic capacity and resistance of pt-rhodamine B-pt cell, as determined by a phase angle method of measurement. Kuo-Feng Sun. Phys R 23:617-30 My '24
Electrolytic caustic soda and Solvay processes. P. Parrish. il diag Chem Age (Lond) 10: 666-9; 11:114-17 Je 28, Ag 2 '24
Electrolytic refining of aluminum. F. C. Frary. diag Am Electrochem Soc Trans v 47 (preprint 23):259-66 Ap '25; Same. Chem & Met Eng 32:485-6 My '25
Der elektrolytische wasserstofferzeuger bauart Holmboe. M. Hanssen. il diag Elektrotech Zeit 45:462-3 My 8 '24; Same (Holmboe electrolytic hydrogen generator). Soc Chem Ind J (Chem & Ind) 43:458-9 My 2 '24
Hydrogen and by-product oxygen in relation to nitrogen fixation and fertilizers. W: G. Allan. il Am Electrochem Soc Trans v 48 (preprint 20):183-207 S '25
Knowles column cell. il diag Soc Chem Ind J (Chem & Ind) 43:119-20 F 1 '24; Elec R (Lond) 94:572-3 Ap 11 '24; Chem Age (Lond) 11:11 Jl 5 '24
Modern electrolytic cells. A. J. Hale. il diags Soc Chem Ind J (Chem & Ind) 43:1224-33, 1250-5, 1291-4 D 12-26 '24
Nachahmung des elektrischen feldes von leitungen im elektrolytischen trog. W. Zschaage. diags Elektrotech Zeit 46:1215-19 Ag 13 '25
Neue bipolarzellen für wasserelektrolyse, ihre konstruktion und ihre charakteristik. F. Petz. il diags Elektrotech Zeit 46:43-5 Ja 8 '25
Oscillograph study of the aluminium valve. F. H. Newman. Philos Mag 6th ser 49:1029-33, pl 11 My '25
Passage of an alternating current through sulphuric acid. R. T. Lattey. bibliog Philos Mag 6th ser 50:444-53 Ag '25
Small electrolysers for producing hypochlorite. il Chem Age (Lond) 11:490-1 N 15 '24
Study of the electrolytic interrupter. J. A. Crowther and R. J. Stephenson. Philos Mag 6th ser 50:86-96 Jl '25
Theoretical and experimental study of the electric field in an electrolytic cell. A. A. Ahmed. diags Inst E E J 62:301-17 Ap '24

ELECTROLYTIC corrosion
Accelerated electrolytic corrosion test. R. J. Anderson and G: M. Enos. il diag Am Soc T M Pro 24 pt 2:735-52; Discussion. 753-66 '24
Applying chemistry to marine engineering problems. C. A. McAllister. Marine Eng 29:396-7 Jl '24
Are gas companies suffering from the destruction of service and main pipes by electrolysis? Am Gas Assn Technical sec v 6:1254-7 '24
Coöperative treatment of the electrolysis problem at Council Bluffs, Iowa, and Omaha, Nebraska. P. H. Patton. il Am Water Works Assn J 11:72-8 Ja '24
Corrosion of alpha-beta brass as affected by grain size. R. J. Anderson and S. H. Brooks. il diag Mech Eng 47:643-5 Ag '25
Effect of electrolysis on the rate of corrosion of metals in photographic solutions. J. I. Crabtree, H. A. Hartt, and G. E. Matthews. Ind & Eng Chem 16:13-19 Ja '24
Electrolytic corrosion in a water gas holder. Gas Age 54:771 N 29 '24
Electrolytic corrosion in a water-gas holder. F. H. Rhodes and E. B. Johnson. Ind & Eng Chem 16:575 Je '24; Same. Am Gas J 120:557-8 Je 14 '24; Same. Gas Age 53:837-8 Je 14 '24
Measuring electrolytic currents in soil. B. A. Williamson. diags Elec Ry J 63:503-5 Mr 29 '24
Method of calculating electrolysis depreciation. B. A. Williamson. J Elec 54:367 My 15 '25
Method of measuring electrolysis. B. A. Williamson. il diag Elec W 85:515-16 Mr 7 '25
Research into the causes of corrosion at switch terminals. diags Elec R (Lond) 97: 436-7 S 11 '25
Some notes on electrolysis of water pipes. W. S. Coulter. Eng & Contr (W W) 63:747-50 Ap 10 '25
Stray earth currents increased by salt. C: F. Meyerherm. il diag Elec Ry J 65:881-3 Je 6 '25
Systematizing electrolysis tests on cable sheaths. Elec W 82:1022 N 17 '23

See also Corrosion and anti-corrosives

ELECTROLYTIC etching. See Etching, Electrolytic

ELECTROLYTIC interrupter. See Electric interrupters

ELECTROLYTIC reduction. See Reduction, Electrolytic

ELECTROMAGNETIC theory
Clerk Maxwell's electromagnetic theory. H. A. Lorentz. 35p University press, Cambridge, Eng. '23
Dielectric properties required for Maxwellian radiation. A. Press. Philos Mag 6th ser 48:581-5 S '24

See also Electric waves; Electrons; Hall effect; Light; Magneto-optics

ELECTROMAGNETIC waves
Conductorless electric circuits. F. B. Vogdes. diags Gen Elec R 28:63-6 Ja '25
Guiding wire in electromagnetic transmission. O. B. Blackwell. il J Fr Inst 199:221-33 F '25
Musical atmospheric disturbances. T. L. Eckersley. Philos Mag 6th ser 49:1250-60 Je '25
Transformation of electric and magnetic forces in a plane wave, in a plane normal to the direction of relative motion of two observers. V. Karapetoff. diags Phys R 23: 239-44 F '24

See also Radio waves

ELECTROMAGNETISM
Ampere trough experiment. Am Inst E E J 43:554, 748 Je, Ag '24
Ampere trough experiment and its explanation by the usual electromagnetic laws. F. W. Grover, J. P. Das and J. H. Turnbull. diags J Fr Inst 199:395-404 Mr '25
Characteristics of iron in high frequency rotating magnetic fields. L. Tonks. Phys R 23:221-38 F '24
Connections between the four transverse galvanomagnetic and thermomagnetic phenomena. P. W. Bridgman. Phys R 24:644-51 D '24
Contributions of H. F. E. Lenz to electromagnetism. W. M. Stine. 157p Acorn press, Philadelphia '23
Electricity—magnetism are twin forces. il diags Power Pl Eng 29:2-4 Ja 1 '25
Electromagnetic forces available in electric furnaces. C. Hering. Am Electrochem Soc Trans v 47 (preprint 7):93-7 Ap '25; Same. Brass W 21:177-8 My '25
Electromagnetic induction in a homogeneous solid conducting sphere rotating about an axis perpendicular to a uniform alternating magnetic field. A. Marcus. Phys R 24:68-78 Jl '24
Electrostatic electromagnetic conversion factor. L. V. Bewley. Wash U Eng Exp Sta Bul 23:1-25 '24

ELECTROMAGNETISM—*Continued*

Emission theory of electromagnetism. L. Page. 243p [bibliog. p. 243] Connecticut academy of arts and sciences, New Haven '24

Galvanomagnetic and thermomagnetic effects. L. L. Campbell. 311p [bibliog. p. 273-308] Longmans '23

Kinematics. C: L. R. E. Menges. Philos Mag 6th ser 49:579-83 Mr '25

Theory of galvanomagnetic phenomena in flames. C. W. Heaps. Phys R 24:652-7 D '24

See also Electromagnetic waves; Inductance; Magnetic field; Magnetic induction

ELECTROMAGNETS

La construction des électro-aimants. P. Villard. diag Génie Civil 85:609 D 27 '24

Economic aspect of the utilization of permanent magnets in electrical apparatus; comparison with electromagnets. E. A. Watson. diags Inst E E J 63:822-34; Discussion. 834-8 Ag '25

Magnets. C: R. Underhill. 468p McGraw-Hill '24

Torque on a cylindrical magnet through which a current is passing. J: Zeleny and L. Page. diags Phys R 24:544-59 N '24

See also Armatures; Chucks, Magnetic; Commutators; Lifting magnets

ELECTROMETALLURGY

Addition agents in tin refining electrolytes. E: F. Kern and E: A. Capillion. il Am Electrochem Soc Trans v 45 (preprint 27): 353-69 Ap '24

American electrochemical society 45th annual meeting, Philadelphia. Iron Age 113:1283+ My 1 '24

Bilanz eines elektro-lichtbogenofens. O. v. Keil and K. Hess. diags Stahl & Eisen 45: 1134-46 Jl 9 '25

Change in concentration of electrolytic impurities. M. deK. Thompson. Chem & Met Eng 32:700 Ag '25

Economic aspect of hydro-metallurgical development in relation to Canadian natural resources. H. Freeman. Can Chem & Met 8:217-18 S '24

Electricity in non-ferrous metallurgy; impressions of American practice. W. Rosenhain. Elec R (Lond) 93:728-9 N 16 '23

Electrolytic formation of alloys and amalgams of manganese. A. N. Campbell. Chem Soc J 125:1713-19 S '24

Electrolytic refining of tin. J. R. Stack. il Am Electrochem Soc Trans v 45 (preprint 20): 279-87 Ap '24; Same. Brass W 21:143-4 Ap '25

Electrolytic tin. C: L. Mantell. Am Electrochem Soc Trans v 45 (preprint 19):269-78 Ap '24

Electro-metallurgical applications. J. L. M. Yardley. diag Blast F & Steel Pl 12:532-5; 13:20-5 [bibliog. p. 25+] D '24-Ja '25

Ferro-phosphorus production in the electric furnace. T: Swann. Chem Age 32:469-70 N '24; Same. Iron Age 114:1469-70 D 4 '24; Same. Iron Tr R 75:1714+ D 25 '24

Fusion electrolysis in metal production; papers read at the American electrochemical society's April meeting. Engineer 140: sup 146-9 O 30 '25

Improvement in electrolytic refining during the last decade. S. Skowronski. Am Electrochem Soc Trans v 45 (preprint 30):391-402 Ap '24; Same. Chem Age 32:269-73 Je '24; Excerpts. Brass W 21:92-3, 146-7 Mr-Ap '25

Metallurgy and alloys of beryllium. E. A. Engle and B. S. Hopkins. Am Electrochem Soc Trans v 45 (preprint 17):255-62 Ap '24

Metallurgy of magnesium. M. Miyake and A. Butts. il Eng & Min J 119:843-6 [bibliog. p. 846] My 23 '25

New addition reagent for electrolytic refining; lignol, waste product of the paper industry. Eng & Min J 120:498 S 26 '25

Power in electro-metallurgy in the United States. E. P. Mathewson. Brass W 20:337 O '24

Production of metallic magnesium from fused salts. W: G. Harvey. diags Am Electrochem Soc Trans v 47 (preprint 21):229-41 '25; Same. Chem & Met Eng 32:573-6 Je '25

La situation actuelle de l'électrochimie et de l'électrométallurgie. G: Flusin. Génie Civil 85:351-2 O 18 '24

See also Copper metallurgy—Electrometallurgy; Electric furnaces, Metallurgical; Electrolytic cells; Electroplating; Electrotyping; Iron founding, Electric; Iron metallurgy—Electrometallurgy; Nickel metallurgy—Electrometallurgy; Smelting, Electric; Steel metallurgy—Electrometallurgy; Zinc metallurgy—Electrometallurgy

ELECTROMETER

Electrometer method for measuring dielectric constants of liquids. A. P. Carman. diags Phys R 24:396-9 O '24

Electrometer tests in flotation. T. M. Bains, jr. il Eng & Min J 117:885-6 My 31 '24

New form of electrometer. F. A. Lindemann, A. F. Lindemann and T. C. Keeley. Philos Mag 6th ser 47:577-83, pl 2 Mr '24

Oil-less flotation of minerals. T. M. Bains, jr. il Eng & Min J 119:205-6 Ja 31 '25

Quadrant electrometer. W. B. Kouwenhoven. bibliog diags Am Inst E E J 44:973-81; Discussion. 1023-4 S '25

Un nouveau type d'électromètre. B. Szilard. diag Génie Civil 84:604 Je 21 '24

ELECTROMETRIC analysis. See Volumetric analysis

ELECTROMOTIVE force

Activities of strong electrolytes; a revision of the activity coefficients of potassium, sodium, and lithium chlorides, and potassium hydroxide. G: Scatchard. Am Chem Soc J 47:648-61 Mr '25

Activities of strong electrolytes; the activity of hydrochloric acid derived from the electromotive force of hydrogen-silver-chloride cells. G: Scatchard. diags Am Chem Soc J 47:641-8 Mr '25

Activities of strong electrolytes: the use of the flowing junction to study the liquid-junction potential between dilute hydrochloric acid and saturated potassium chloride solutions; and the revision of some single-electrode potentials. G: Scatchard. diag Am Chem Soc J 47:696-709 Mr '25

Activity coefficient of potassium hydroxide in potassium chloride solutions. H. S. Harned. Am Chem Soc J 47:689-92 Mr '25

Activity coefficient of sodium hydroxide in aqueous solution. H. S. Harned. diag Am Chem Soc J 47:676-84 Mr '25

Activity coefficient of sodium hydroxide in sodium chloride solutions. H. S. Harned. Am Chem Soc J 47:684-9 Mr '25

Activity coefficients and transference numbers of the alkaline earth chlorides. W. W. Lucasse. diags Am Chem Soc J 47:743-54 Mr '25

Activity of perchloric acid in aqueous solution. R. Schuhmann. Am Chem Soc J 46: 58-60 Ja '24

Change in the electromotive force between a metal plate and a solution on being suddenly brought into contact. R. D. Kleeman and R. H. Bennett. Phys R 22:629-32 D '23

Conditions affecting the reproducibility and constancy of Weston standard cells. W. C. Vosburgh. diag Am Chem Soc J 47:1255-67 My '25

Constant e.m.f. without sliding contacts. C. Hering. Am Inst E E J 44:37 Ja '25

Contact electromotive force between the solid and liquid phases of the same metal and between the outgassed surfaces of two dissimilar metals. P. H. Dowling. diags Phys R 25:812-25 Je '25

Control of e.m.f. il diags Power Pl Eng 29: 21-3 Ja 1 '25

Diffusion-potential and transport number of hydrochloric acid in concentrated solution. S. R. Carter and F: M. Lea. Chem Soc J 127:487-94 F '25

ELECTROMOTIVE force—*Continued*
Effect of a magnetic field on the potential of hydrogen occluded in iron. T. W. Richards and W: T. Richards. diag Am Chem Soc J 46:89-104 Ja '24
Effect of a transition layer on intrinsic potential. P. V. Wells. Phys R 23:205-8 F '24
Effect of hydrogen pressure on the electromotive force of a hydrogen-calomel cell. W. R. Hainsworth, H. J. Rowley and D. A. MacInnes. diags Am Chem Soc J 46:1437-43 Je '24
Effect of various preparations of mercurous sulfate on the electromotive force and hysteresis of Weston standard cells. W. C. Vosburgh and M. Eppley. Am Chem Soc J 46:104-11 Ja '24
Electric harmonic analyser. J. D. Cockcroft and others. diags Inst E E J 63:69-113 [bibliog. p. 111-13] Ja '25; Discussion. 63:113-19, 231-3 Ja-F '25
Electrochemical relation of free radicals to halochromic salts. J. B. Conant, L. F. Small and B. S. Taylor. Am Chem Soc J 47:1959-74 Jl '25
Electrode, contact, and electro-kinetic potentials of galvanic cells. J. Heyrovský. diags J Phys Chem 29:344-52 Mr '25
Electrode potentials and the free energy of solvation. J. Heyrovský. J Phys Chem 29: 406-9 Ap '25
Electrolytic potential of calcium. M. Tamele. diag J Phys Chem 28:502-5 My '24
Electrometric studies on azo- and hydrazo-compounds. E. Biilmann and J. H. Blom. Chem Soc J 125:1719-31 S '24
Free energy and heat content of arsenic trioxide and the reduction potential of arsenic. R. Schuhmann. Am Chem Soc J 46:1444-9 Je '24
Free energy and heat content of tellurium dioxide and of amorphous and metallic tellurium; the reduction potential of tellurium. R. Schuhmann. Am Chem Soc J 47:356-63 F '25
Free energy of antimony trioxide and the reduction potential of antimony. R. Schuhmann. diags Am Chem Soc J 46:52-8 Ja '24
Free energy of dilution and the activity of the ions in aqueous solutions of barium chloride. J. N. Pearce and R. W. Gelbach. J Phys Chem 29:1023-30 Ag '25
Free energy of dilution and the activity of the ions of hydrogen iodide in aqueous solution. J. N. Pearce and A. R. Fortsch. Am Chem Soc J 45:2852-7 D '23
Free energy of sulfuric acid in aqueous sulfate solutions. H. S. Harned and R. D. Sturgis. Am Chem Soc J 47:945-53 Ap '25
Graphic comparison of potential scales and electrode potentials. L: J. Bircher. Ind & Eng Chem 17:622 Je '25
Influence of acid concentration on the oxidation-reduction potential of cuprous and cupric chlorides. S. R. Carter and F: M. Lea. Chem Soc J 127:499-510 Mr '25
Measurement of decomposition potentials. A. L. Ferguson and G. Van Zyl. il plan Am Electrochem Soc Trans v 45 (preprint 26): 337-52 Ap '24
Measurement of oxidation potentials at mercury electrodes; ter- and bivalent titanium. G: S. Forbes and L. P. Hall. diag Am Chem Soc J 46:385-90 F '24
Method of measuring the reduction potentials of quinhydrones. E. Biilmann, A. L. Jensen and K. O. Pedersen. Chem Soc J 127:199-208 Ja '25
Method of studying electrode potentials and polarization. H. D. Holler. il diags U S Bur Stand Sci Pa 504:153-66 '25
Potential problem. Elec R (Lond) 94:412, 491 Mr 14, 28 '24
Production of e.m.f.'s in a generator. diags Power Pl Eng 29:4-7 Ja 1 '25
Recent studies on reversible oxidation-reduction in organic systems. M. Clark. Chem R 2:127-78 [bibliog. p. 175-8] Ap '25
Reduction potentials of quinones; the potentials of certain derivatives of benzoquinone, naphthoquinone and anthraquinone. J. B. Conant and L: F. Fieser. Am Chem Soc J 46:1858-81 Ag '24
Relation between metal contact potentials and the Peltier effect. J. A. V. Butler. Philos Mag 6th ser 48:746-52 O '24
Saturated standard cells with small temperature coefficients. W. C. Vosburgh. Am Chem Soc J 47:2531-40 O '25
Seat of the electromotive force in the galvanic cell. J. A. V. Butler. Philos Mag 6th ser 48:927-35 N '24
Some electrical properties of high-resistance alloys. M. A. Hunter and A. Jones. Am Soc T M Pro 24 pt 2:401-15 '24
Some new thermoelectrical and actinoelectrical properties of molybdenite. W. W. Coblentz. U S Bur Stand Sci Pa 486:375-418 '24
Space-charge and thermionic currents. W: S. Kimball. Philos Mag 6th ser 49:695-708 Ap '25
Spectro-photoelectrical effects in argentite; the production of an electromotive force by illumination. P. H. Geiger. diag Phys R 22: 461-9 N '23
Summary of electrode potentials. R. H. Gerke. Chem R 1:377-95 Ja '25
Transfer resistance. A. L. Ferguson and G. van Zyl. Am Electrochem Soc Trans v 47 (preprint 13):145-60 Ap '25

See also Electric double layer; Oscillations (electric currents); Overvoltage; Photoelectric effect; Photoelectricity; Piezoelectricity; Thermoelectricity

ELECTRON metal
Das elektronmetall. Elektrotech Zeit 45:504-5 My 15 '24
Resistance of manganese bronze duralumin and electron metal to alternating stresses. R. R. Moore. il diags Am Soc T M Pro 23 pt 2:106-21; Discussion. 122-9 '23

ELECTRON tubes. See Vacuum tubes

ELECTRONIC battery, Kramer. See Kramer electronic battery

ELECTRONIC reactions. See Abrams' electronic reactions

ELECTRONS
Absence of ionization by electrons with speeds comparable with that of light. W. F. G. Swann. Philos Mag 6th ser 47:306-19 F '24
Absorption coefficient for slow electrons in gases. R. B. Brode. diags Phys R 25:636-44 My '25
Apparent transmission of low velocity electrons through aluminum foil. H: E. Hartig. diag Phys R 26:221-31 Ag '25
Application of the electron theory of the Hall effect. J: A. Eldridge. Phys R 21:131-42 F '23; Discussion. 24:283-6 S '24
Atomism in modern physics. R. A. Millikan. diags Chem Soc J 125:1405-17 Jl '24
Atoms and electrons. J: W: N. Sullivan. 188p Doran '24
Attachment of electrons to gas molecules. V. A. Bailey. diags Philos Mag 6th ser 50: 825-43 O '25
Capture and loss of electrons by α particles. E. Rutherford. diags Philos Mag 6th ser 47:277-303 F '24
Chance of an electron being ejected photoelectrically from an atom by X-rays. G. E. M. Jauncey. Philos Mag 6th ser 48:81-8 Jl '24
Change of conductance of selenium due to electronic bombardment. R. De L. Kronig. diags Phys R 24:377-82 O '24
Chemical affinity and electron affinity. R. H. Gerke. Am Chem Soc J 46:953-8 Ap '24
Chemical affinity and electronic structure; the non-polar bond. B. H. Wilsdon. diags Philos Mag 6th ser 49:354-69 F '25
Chemical affinity and electronic structure; the polar link. B. H. Wilsdon. Philos Mag 6th ser 49:900-11 My '25
Corpuscular theory of the distribution of the recoil electrons produced by polarized X-rays. G. E. M. Jauncey. Phys R 23: 580-2 My '24
Critical electron energies in hydrogen. F. Horton and A. C. Davies. diags Philos Mag 6th ser 46:872-96 N '23

ELECTRONS—*Continued*

Critical potentials in secondary electron emission from iron, nickel, and molybdenum. R. L. Petry. diag Phys R 26:346-59 S '25

Currents limited by space charge between coaxial cylinders. I. Langmuir and K. B. Blodgett. Phys R 22:347-56 O '23

Currents limited by space charge between concentric spheres. I. Langmuir and K. B. Blodgett. Phys R 24:49-59 Jl '24

Dependence of the intensity of the Compton effect upon the atomic number. B. Davis. Phys R 25:737-9 Je '25

Determination of elementary charge E from measurements of shot-effect. A. W. Hull and N. H. Williams. diags Phys R 25:147-73 F '25

Dielectrics and electrons. F. Fernie. diag Electrician 94:384-5 Ap 24 '25

Diffusion of electrons against an electric field in the non-oscillatory abnormal low voltage arc. K. T. Compton and C. Eckart. diags Phys R 25:139-46 F '25

Direction of ejection of photo-electrons by polarized X-rays. F. W. Bubb. il diag Phys R 23:137-43 F '24

Distribution of electrons among atomic levels. E. C. Stoner. Philos Mag 6th ser 48:719-36 O '24

Distribution of initial velocities among thermionic electrons. L. H. Germer. diags Phys R 25:795-807 Je '25

Distribution of velocities among the electrons emitted by hot platinum in an atmosphere of hydrogen. H. H. Potter. diags Philos Mag 6th ser 46:768-84 N '23

Dynamic hypothesis of chemical combination. G. T. Morgan. Soc Chem Ind J (Chem & Ind) 43:1071-3 O 31 '24

Effect of variable electron mobilities on the formation of negative ions in air. L. B. Loeb. J Fr Inst 197:45-55 Ja '24

Electric moment and molecular structure. C: P. Smyth. Philos Mag 6th ser 47:530-44 Mr '24

Electric moments of typical organic molecules. C: P. Smyth. Am Chem Soc J 46: 2151-66 O '24

Electrical behaviour of radioactive colloidal particles of the order of 10^{-5} cm. as observed separately in a gas. F. Ehrenhart. Philos Mag 6th ser 49:633-48 Ap '25

Electron displacement in carbon compounds; electron displacement versus alternate polarity in aliphatic compounds. H. J. Lucas and A. Y. Jameson. Am Chem Soc J 46:2475-82 N '24

Electron displacement in carbon compounds; hydrogen bromide and 2-pentene. H. J. Lucas and H. W. Moyse. Am Chem Soc J 47:1459-61 My '25

Electron displacement in carbon compounds; polarity differences in carbon-hydrogen unions. H. J. Lucas, T: P. Simpson and J. M. Carter. Am Chem Soc J 47:1462-9 My '25

Electron emission from adsorbed films on tungsten. K. H. Kingdon. Phys R 24:510-22 N '24

Electron emission from metals as a function of temperature. O. W. Richardson. Phys R 23:153-5 F '24

Electron emission from oxide coated filaments. L. R. Koller. Phys R 25:671-6 My '25

Electron emission from thoriated tungsten filaments. I. Langmuir. Phys R 22:357-98 O '23

Electron emission from tungsten, molybdenum and tantalum. S. Dushman and others. Phys R 25:338-60 Mr '25

Electron gun. Brass W 20:52 F '24

Electron in chemistry. J. J. Thomson. 140p Franklin Institute, Philadelphia

The electron, its isolation and measurement and the determination of some of its properties. R. A. Millikan. 293p Univ. of Chicago press '24

Electron theory of aberration and Lorentz transformations. D. N. Mallik. Philos Mag 6th ser 48:405-12 S '24

Electronic bombardment of metal surfaces. H. E. Farnsworth. diags Phys R 25:41-57 Ja '25

Electronic conduction in metals. A. Bramley. Philos Mag 6th ser 46:1053-73 D '23

Electronic emission; Hull's phenomenon investigated. A. Goetz. Electrician 91:659-60 D 14 '23

Electrons, atoms and atomic architecture; some recent work considered and criticised. G. W. de Tunzelman. Electrician 92: 97-9 Ja 25 '24

Electrons, electric waves and wireless telephony. J: A. Fleming. 326p Wireless press, London, New York '23

Emission of secondary electrons from metal under electronic bombardment. E. W. B. Gill. Philos Mag 6th ser 46:994-9 N '23

Emission of secondary electrons from nickel. E. W. B. Gill. Philos Mag 6th ser 45:864-78 My '23; Discussion. 47:245-9 Ja '24

Excitation of the helium spectrum by electronic bombardment. A. Udden and J. C. Jacobsen. il Phys R 23:322-6 Mr '24

Field of an electron at rest and in uniform motion. H. Bateman. Philos Mag 6th ser 49:1-18 Ja '25

Free electron characteristics of sodium-potassium alloys. C. V. Kent. Phys R 22:479-85 N '23

Harmonic analysis of electron orbits. F. C. Hoyt. Phys R 25:174-86 F '25

Heat of evaporation of electrons. J. J. Weigle. Phys R 25:187-92 F '25

Incident and emergent velocities of photo-electrons emitted from thin platinum films. Chien Cha. diag Philos Mag 6th ser 49:262-72 Ja '25

Intensity of the scattering of X-rays by recoiling electrons. Y. H. Woo. diag Phys R 25:444-51 Ap '25

Ionization of caesium vapor and the mobility of electrons in the Bunsen flame. B. T. Barnes. diags Phys R 23:178-88 F '24

Ionization of gases as a function of the energy of electron impacts. A. L. Hughes and E. Klein. diags Phys R 23:450-63 Ap '24

Kinetic energy of electrons emitted from a hot tungsten filament in an atmosphere of (a) argon (b) hydrogen. J. F. Congdon. Philos Mag 6th ser 47:458-65 F '24

Kinetic theory of the thermionic effect. N. P. Rashevsky. Phys R 26:241-6 Ag '25

Law and mechanism of the emission of electrons from hot bodies. S. C. Roy. Philos Mag 6th ser 47:561-9 Mr '24

Listening to an electron rainstorm. Sci Am 132:116 F '25

Longitudinal asymmetry in the direction of ejection of photo-electrons. O. K. deFoe. diag Philos Mag 6th ser 49:817-24 My '25

Mobilities of electrons in helium. L. B. Loeb. Phys R 23:157-68 F '24

Momentum imparted to electrons by radiation. E. O. Hulburt and G. Breit. Phys R 25:193-6 F '25

Motion of electrons between coaxial cylinders under the influence of current along the axis. A. W. Hull. il diags Phys R 25:645-70 My '25

Motion of electrons in gases. V. A. Bailey. Philos Mag 6th ser 46:1090-1; 47:379-84 D '23, F '24

Motion of electrons in gases. J. S. Townsend. J Fr Inst 200:563-90 N '25

Motion of electrons in nitrogen. H. B. Wahlin. diag Phys R 23:169-77 F '24

Motion of free electrons in black body radiation, and the interaction between radiation and matter. G. Breit. Philos Mag 6th ser 49:537-65 Mr '25

Motions of electrons in gases. K. T. Compton. Phys R 22:333-46, 432-44 O-N '23

Motions of electrons in gases and the formation of negative ions in air. L. B. Loeb. Philos Mag 6th ser 46:1088-9 D '23

Motions of electrons in oxygen. H. L. Brose. Philos Mag 6th ser 50:536-46 S '25

Multiplet structure. A. Bramley. Philos Mag 6th ser 50:375-81 Ag '25

ELECTRONS—*Continued*
Optical excitation of the mercury spectrum, with controlled orbital transfers of electrons. R. W. Wood. diags Philos Mag 6th ser 50:774-96, pl 25 O '25
Photo-electricity. H. S. Allen. 2d ed. 320p [bibliog. p. 287-320] Longmans '25
Possible reconciliation of Bohr's interpenetration ideas with Sommerfeld's relativistic treatment of electron orbits. R. A. Millikan and I. S. Bowen. Philos Mag 6th ser 49:923-35 My '25
Proof of the invariance under the Lorentz transformation of the equation of motion of the electron. L. Page. Phys R 24:627-30 D '24
Quantum magnetic tubes in rotation. H. S. Allen. diags Philos Mag 6th ser 49:981-92 My '25
Quantum theory of the intensity of the modified band in the Compton effect. G. E. M. Jauncey. diags Phys R 25:723-36 Je '25
Quantum theory of the unmodified spectrum line in the Compton effect. G. E. M. Jauncey. diags Phys R 25:314-21 Mr '25
Quantum theory on the asymmetries in the direction of ejection of photo-electrons. F. W. Bubb. Philos Mag 6th ser 49:824-38 My '25
Radiant theory of gravitation and inertia. H. P. Gillette. Eng & Contr (W W) 64: 561-3 S 9 '25
Recoil of electrons from scattered X-rays. A. H. Compton and J. C. Hubbard. Phys R 23:439-49 Ap '24
Refraction and electron constraint in ions and molecules. C: P. Smyth. Philos Mag 6th ser 50:361-75 Ag '25
Relations of PP' groups in atoms of the same electronic structure. I. S. Bowen and R. A. Millikan. il Phys R 26:150-64 Ag '25
Relative ionization in different gases for slow-moving electrons. W: P. Jesse. diag Phys R 26:208-20 Ag '25
Scattering of X-rays. I. Maizlish. bibliog J Fr Inst 197:667-90 My '24
Schottky effect in low frequency circuits. J. B. Johnson. diags Phys R 26:71-85 Jl '25
Schottky's method of determining the distribution of velocities among thermionic electrons. C. Davisson. Phys R 25:808-11 Je '25
Selection principle: a development based upon the Stokes-Thomson pulse theory. C. N. Wall. Philos Mag 6th ser 48:378-83 S '24
Short electric waves obtained by the use of secondary emission. E. W. B. Gill and J. H. Morrell. Philos Mag 6th ser 49:369-79 F '25
Soft X-rays and secondary electrons. J. A. Becker. il diag Phys R 24:478-85 N '24
Space-charge and thermionic currents. W: S. Kimball. Philos Mag 6th ser 49:695-708 Ap '25
Statistical theory of emission of electrons from hot bodies. S. C. Roy. Philos Mag 6th ser 50:250-63 Jl '25
Study of ions and electrons for electrical engineers. H. J. Ryan. bibliog Am Inst E E J 44:964-7 S '25
Symmetry of incident and emergent photo-electronic velocities. R. J. Piersol. diag Phys R 23:144-52 F '24
Tentative theory of the capture and loss of electrons by swift nuclei. R. H. Fowler. Philos Mag 6th ser 47:416-30 F '24
Theory of the magnetron taking into account the variation of the mass of the electron with velocity. L. Page. diag Phys R 25: 841-5 Je '25
Theory of the schroteffekt. T. C. Fry. diags J Fr Inst 199:203-20 F '25
Theory of thermionics. H. A. Wilson. Phys R 24:38-48 Jl '24
Thermal energy of electrons in metals. E. D. Eastman, A. M. Williams and T. F. Young. Am Chem Soc J 46:1184-96 My '24
Thermionic work function of oxide coated platinum. C. Davisson and L. H. Germer. Phys R 24:666-82 D '24
Thermodynamics of thermionic emission. C. Davisson. Philos Mag 6th ser 47:544-9 Mr '24
Two dancing electrons the secret of color. Sci Am 132:413 Je '25
Variation of thermionic emission with temperature and the concentration of free electrons within conductors. A. T. Waterman. Phys R 24:366-76 O '24

See also Electric discharges; Electromagnetic theory; Ionization, Gaseous; Ions; Radioactivity; Resonance potential; Subelectrons; Vaccuum tubes

Bibliography
Electron and constitution of matter. A. A. Slobod. Special Lib 16:205-6 Je '25

Divisibility
Nature of the evidence for the divisibility of the electron. R. A. Millikan. Phys R 26:99-104 Jl '25

ELECTROPHORESIS
General formulation of movement in an electrical field: migration, electrophoresis and electroösmosis of sodium oleate. M. E. Laing. diags J Phys Chem 26:673-705 Jl '24
Measurements of the mobility of egg albumin at different acidities. N. D. Scott and T. Svedberg. il diag Am Chem Soc J 46: 2700-7 D '24
Mutual action of charged particles in liquid media. E. F. Burton and J. E. Currie. diags Philos Mag 6th ser 49:194-209 Ja '25
Variations in the cataphoretic mobilities of oil drops in water. M. Mooney. diag Phys R 23:396-411 Mr '24

ELECTROPLATING
Acidity of cobalt and nickel plating baths—use of the oxygen electrode. G. H. Montillon and N. S. Cassel. Am Electrochem Soc Trans v 45 (preprint 1):1-11 Ap '24; Same. Brass W 20:167-9 My '24
Art of electroplating. Brass W 20:394 N '24
Attempt to electroplate tungsten on iron. C. A. Mann and H. O. Halvorsen. diag Am Electrochem Soc Trans v 45 (preprint 2): 13-28 Ap '24
Automatic electroplating installation. il Mach 30:525 Mr '24
Chromium plating steel using chromium anodes. K. W. Schwartz. Am Electrochem Soc Trans v 44 (preprint 2):13-25 S '23; Same. Brass W 20:85-8 Mr '24; Same abr. Metal Ind 21:441-3 N '23; Excerpts. Chem & Met Eng 30:627-8 Ap 21 '24; Discussion. Metal Ind 22:65 F '24
Corrosion resistance of electroplated coatings of zinc and zinc-mercury alloys. C. J. Wernlund. Am Electrochem Soc Trans v 45 (preprint 31):403-9 Ap '24; Same. Brass W 21:195-6 Je '25
Description of the plating industry of Milwaukee, Wis. L. Wegner. il Metal Ind 22:223-7 Je '24
Description of the plating industry of Montreal, Canada. P: W. Blair. il Metal Ind 23:221-5 Je '25
Effects of nitrates on current efficiency of plating solutions. P. A. Nichol and O. P. Watts. Am Electrochem Soc Trans v 48 (preprint 15):151-3 S '25
Electric deposition of metals. Brass W 19:356 N '23
Electrodeposition of antimony. J. C. Ghosh and A. N. Kappana. J Phys Chem 28:149-60 F '24
Electrodeposition of copper-nickel alloys. H. D. Hineland and W. B. Cooley. Am Electrochem Soc Trans v 48 (preprint 16):155-60 S '25
Electro-deposition of metals. G. Langbein. 9th ed. 863p Baird '24
Electrodeposition of nickel; comparative value of magnesium sulphate vs. sodium sulphate. C: H. Proctor and O. J. Sizelove. Metal Ind 23:415-16 O '25
Electroplating and the decoration of metal. G: A. Banner. il Brass W 21:333-5 O '25

ELECTROPLATING—*Continued*
Electro-plating industry in 1923. C: H. Proctor. Metal Ind 22:20-1 Ja '24
Electro-plating industry in 1924. C: H. Proctor. Metal Ind 23:21-2 Ja '25
Electro-plating research; abstract. W: Blum. Metal Ind 22:154 Ap '24
Electro-plating with chromium. Metal Ind 21: 488 D '23
Joint conference of Bureau of standards and research committee of the A.E.S. Brass W 21:24-5 Ja '25; Am Inst E E J 44:44 Ja '25
Meeting of the research committee and the electroplating division of the Bureau of standards, Washington, D.C., Nov. 14-15. C. H. Eldridge. Metal Ind 22:489-91 D '24
Modern electro-plating. W: E. Hughes. 160p Oxford '23
Nickel plating of zinc and zinc-base die castings. M. R. Thompson. bibliog Am Electrochem Soc Trans v 47 (preprint 9):103-25 Ap '25
Plates base metal with nickel. J: D. Knox. il Iron Tr R 77:247-8+ Jl 30 '25
Plating investigations. Metal Ind 22:360-1 S '24
Plating problems I have met. C: H. Proctor. Metal Ind 23:192-4 My '25
Plating room equipment. R. F. Clark. Metal Ind 22:19 Ja '24
Principles and operating conditions of chromium plating; application of electrodeposited metal to face of printing plates. H. E. Haring. Chem & Met Eng 32:692-4 Ag '25
Principles of electroplating and electroforming (electrotyping). W: Blum and G: B. Hogaboom. 356p McGraw-Hill '24
Railroad plating work. F. Dickie. il Metal Ind 22:448-9 N '24
Recent advances in electroplating. Chem & Met Eng 30:753-5 My 12 '24
Recent progress in electroplating and electroforming. W. Blum. Am Electrochem Soc Trans v 45 (preprint 9):129-34 Ap '24; Same. Brass W 20:155-6 My '24; Same. Metal Ind 22:229-30 Je '24
Rust resistance of nickel-plated steel. E. M. Baker. il diags plan Soc Auto Eng J 14:127-33 F '24; Discussion. 15:300-1 O '24
Some impressions of American electroplating. W. E. Hughes. Brass W 20:43-5 F '24
Throwing power, cathode potentials and efficiencies in nickel deposition. H. E. Haring. il Am Electrochem Soc Trans v 46 (preprint 15):209-31 O '24

See also Electrodeposition of metals; Electrometallurgy; Galvanizing; Nickel plating; Silver plating

Accounting

Electro-plating costs. J. Haas, jr. Metal Ind 23:18-20, 67-8 Ja-F '25

ELECTROSTATIC generator. See Electric machines

ELECTROSTATIC separation of ores
Dielectric mineral separation. B. W. Holman. Eng & Min J 119:1047 Je 27 '25

ELECTROSTATIC generator. See Electric ma-
Problems of two-dimensional electrostatics. D. M. Wrinch. Philos Mag 6th ser 48:692-703 O '24
Quantitative theory of electrostatic systems. A. W. Simon. diags Phys R 26:111-17 Jl '25
Theory of a simple electrostatic alternator. A. W. Simon. Phys R 25:368-75 Mr '25
Theory of the condenser in a new electrostatics. H. Bateman. Philos Mag 6th ser 49:19-22 Ja '25

See also Condensers (electricity); Electric charges; Electric discharges; Electric machines; Induction (electricity); Johnson-Rabeck effect

ELECTROSYNTHESIS
Mechanism of Kolbe's electrosynthesis. R. E: Gibson. Chem Soc J 127:475-87 F '25

ELECTROTHERAPEUTICS
Curing cancer with ultra radio frequencies. G: Lakhovsky. il Radio N 6:1382-3 F '25
New facts about the curative powers of electricity. Sci Am 130:33 Ja '24

Apparatus and instruments

Erfahrungen und erfolge in der anwendung elektromedizinischer apparate. H. Holthusen. il Elektrotech Zeit 45:903-8 Ag 21 '24
First international congress of radiology. il diags Elec R (Lond) 97:229-30, 275-6 Ag 7-14 '25

ELECTROTYPERS
Electrotypers, Boston; labor agreement. Monthly Labor R 18:1289 Je '24

ELECTROTYPES
Can press makeready be eliminated? R. F. Salade. Inland Ptr 74:533-5 Ja '25
Keeping track of electros, mounted and unmounted. V. C. Leftwich. Ptr Ink M 8: 76+ Ap '24

ELECTROTYPING
Principles of electroplating and electroforming (electrotyping). W: Blum and G: B. Hogaboom. 356p McGraw-Hill '24
What good composition means to the electrotyper. J: E. Shea. Inland Ptr 75:430 Je '25

See also Electrometallurgy; Stereotyping

ELECTROVALENCY. See Valence

ELEKTRON metal. See Electron metal

ELEPHANTS, Fossil
Artifacts associated with the remains of a Columbian elephant at Melbourne, Florida. F. B. Loomis. il diag Am J Sci 5th ser 8: 503-8 D '24

ELEVATED railroads
Rapid transit and interurban transportation for Chicago. B. I. Budd. W Soc E J 29:142-7; Discussion. 417-54 Mr '24

See also Boston Elevated railway

Accidents

Jury findings in Brooklyn Elevated wreck. il Safety Eng 46:246-7 N '23

Rolling stock

Passenger comfort the feature of the new Chicago L cars. il diags plan Elec Ry J 63: 55-9 Ja 12 '24

Stations

Better illumination with less wattage on L stations. E. E. Dorting. il Elec Ry J 63: 584 Ap 12 '24

ELEVATORS
Centenarian elevator. M. Wright. il Am Mach 61:48 Jl 10 '24
Chart for determining the strength of used elevator cables. C. W. Willetts. chart Power 58:762-4 N 13 '23
Chart that led to savings in elevator costs. E. Shultz. System 47:94 Ja '25
Difficulties with hydro-steam elevators. W. Hilleary. diag Power 59:939 Je 10 '24; Discussion. H. D. Fisher. 60:25 Jl 1 '24
Electric and hydraulic elevators in modern buildings. J. A. McHollan. diags Arch Forum 36:169-74 O '23; Same. Eng & Contr (Bldgs) 61:1161-8 My 28 '24
Elevator characteristics and building design. A. G. McLaughlin. Eng & Contr (Bldgs) 63:644-7 Mr 25 '25
Elevators in hotels. B. Jones. diags Arch Forum 39:269-70 N '23
Fundamentals of economic and efficient elevator installation. B. Jones. Eng & Contr (Bldgs) 63:1168-74 My 27 '25
Hints on hydraulic elevator operation. Power 59:945 Je 10 '24
Loading of elevator cables and bearings. C: A. Armstrong. diags Power 61:371-3 Mr 10 '25; Discussion. H. B. Cook. 61:504-5 Mr 31 '25
Methods of securing elevator cables in clamps or sockets. W. Hilleary. il Power 59:458-9 Mr 18 '24
New Jersey portable service elevator. il Am Mach 60:523 Ap 3 '24
Notes on elevator equipment. W. Hilleary. Power 62:164 Ag 4 '25
Selection of elevator equipment. F. A. Pattison. Am Arch 126:31-2 Jl 2 '24
Ups and downs in the modern building. B. Jones. Am Inst Arch J 12:328-31 Jl '24

ELEVATORS—*Continued*
Vertical transportation. H. D. James. il Am Arch 125:451-4 My 7 '24
See also Hoisting machinery

Control
Elevator micro-leveling equipment. F. A. Annett. il diag Power 61:496-8 Mr 31 '25

Inspection
Elevator inspection. J: M. Sandel. Nat Safety N 9:39 Ap '24
Inspection of hydraulic elevators. W. Hilleary. Power 61:615-16 Ap 21 '25

Rails
Planing elevator T-rails. il diags Am Mach 63:473-5 S 17 '25

Repair
Renewing the control cable on a hydraulic elevator. S. G. Rogers. diag Power 61:426 Mr 17 '25
Truing the grooves in traction elevator sheaves. il Power 62:222-3 Ag 11 '25

Safety devices and measures
Elevator safety. diags Arch & Bldg 57:15-16 F '25
How the National elevator code safeguards vertical travel. J: A. Dickinson. il Nat Safety N 12:9-12 Jl '25
Keeping elevators in safe operating condition. W. Hilleary. Power 60:100 Jl 15 '24
Machine tests endurance of elevator devices. il Nat Safety N 11:14-15 My '25
Safety code for elevators, dumbwaiters, and escalators. Mech Eng 47:219-21 Mr '25
Stop which prevents riding man elevators past top floor. diag Ind Eng 83:197 Ap '25
Tests of elevator interlocking devices. il Safety Eng 50:127-30 S '25

ELEVATORS, Electric
Changing electric power source for elevator equipment. J. A. Jackson. il Power 62:281-3 Ag 25 '25
Electric elevator equipment for modern buildings. R. Grierson. 191p Van Nostrand '24
Electric elevators. il Am Inst E E J 43:755-60 Ag '24
Electric passenger lifts. H. Marryat. diags Inst E E J 62:325-41 Ap '24; Abstracts. Elec R (Lond) 94:152-4 Ja 25 '24; Engineer 137: 104-5 Ja 25 '24; Engineering 117:148 F 1 '24; Electrician 92:103 Ja 25 '24; Discussion. Inst E E J 62:341-9 Ap '24; Elec R (Lond) 94:154-5 Ja 25 '24; Electrician 92: 106 Ja 25 '24
Elevator operation with alternating-current power supply. C. C. Clymer. il Gen Elec R 28:109-20 F '25
Elevators with electric brains. A. A. Hopkins. il Sci Am 133:248-9 O '25
High-speed elevator developments. E. B. Thurston. il Elec W 86:159-61 Jl 25 '25
Late developments in electric elevators. Elec W 83:323-4 F 16 '24
Latest developments in subway elevators. Eng & Contr (G C) 64:628 S 16 '25
Mechanical features of the gearless traction elevator motor and brake. J. J. Matson. il Gen Elec R 27:390-4 Je '24
Methods of rope drive on electric elevator machines. C: A. Armstrong. il Power 61:171-3 F 3 '25
New material handling elevator. il Iron Age 113:860 Mr 20 '24
Notes on electric lifts. Elec R (Lond) 95: 171-3, 207-9 Ag 1-8 '24
Operation of electric elevator machines—drum-type equipment. F. A. Annett. il Power 60:609-12 O 14 '24
Operation of electric elevator machines—general principles. F. A. Annett. il diag Power 60:414-16 S 9 '24
Operation of electric elevator machines—traction type equipment. F. A. Annett. il Power 61:54-7 Ja 13 '25
Operation of high-speed traction elevator control. W. Hilleary. il diags Power 61:727-31 My 12 '25
Schlüsseldiagramme für elektrische schaltungen im dienste der normung. A. V. Hellborn. diags Elektrotech Zeit 46:770-2 My 21 '25
Some developments in the electrical industry during 1924. J: Liston. il Gen Elec R 28:26-7 Ja '25
Three-speed traction elevator direct-current controller. C: A. Armstrong. il diags Power 62:438-41 S 22 '25
Time-velocity characteristics of the high-speed passenger elevator. B. Jones. Gen Elec R 27:111-20 F '24
Transient performance of electric elevators; discussion. Am Inst E E J 43:1069-70 N '24
Variable voltage control systems as applied to electric elevators. E. M. Bouton. il diags Am Inst E E J 43:52-63 Ja '24; Abstract. Power Pl Eng 28:287-90 Mr 1 '24; Discussion. Am Inst E E J 43:1070-80 N '24

Inspection
Inspection of electric elevators. W. Hilleary. Power 60:539-40 S 30 '24

Repair
Locating faults in electric elevators—alternating-current motors. C: A. Armstrong. il diags Power 62:604-7 O 20 '25
Locating faults in electric elevators—direct-current controllers. C: A. Armstrong. il diags Power 62:674-7 N 3 '25
Locating faults in electric elevators—direct-current motors. C: A. Armstrong. il diag Power 62:530-2 O 6 '25
Repairing and rebuilding electric elevators. R. H. Kuehmsted. il Ind Eng 82:512-18+ N '24

Specifications
Outline of tentative specifications for electric elevators. Am Arch 125:sup18+ F 27 '24

Testing
Testing automatic limit stops on electric elevators. Power 61:211 F 10 '25
Testing elevator-car safeties. W. Hilleary. Power 59:812 My 20 '24

ELGIN, Illinois
Sanitary affairs
New sanitary district of Elgin has large program. Eng N 92:193 Ja 31 '24

ELIOT, Charles William, 1834-
Charles W. Eliot—chemist. L. C. Newell. por Ind & Eng Chem 16:636-7 Je '24
Introduction of chemistry into Japan; an appreciation of the service of Charles William Eliot as a chemist. W: E. Griffis. Chem Age 32:196 Ap '24
My ninety years. C: W: Eliot. Chem Age 32: 105-8 Mr '24
Portrait. Chem & Met Eng 30:462 Mr 24 '24

ELKS, Benevolent and protective order of
Temples
Elks temple, no. 142, Portland, Oregon. Arch & Bldg 56:102, pl 211-13 N '24
Queens Borough, N.Y., lodge, B.P.O.E. Arch & Bldg 57:23-5, pl 58-62 Mr '25

ELLIOTT company, Philadelphia
What the Federal trade commission did to me. H. V. Elliott. Nation's Business 13: 13-15 N '25

ELLIS, Carleton
Inventive ingenuity in applied chemistry. por Chem Age 32:47-8 Ja '24

ELMIRA, New York
Engineering in the small city. Eng N 94:858-9 My 21 '25

EL PASO, Texas
Basis of El Paso's opportunity. H. D. Slater. il Comm & Fin 14:1459 Jl 29 '25

Rapid transit
Eliminating half the accidents in El Paso. il Elec Ry J 62:1047-50 D 22 '23
Folks may war; cars must run. T. P. Walker. il Aera 14:87-91 Ag '25
Gaining public good will in a city of 100,000. Elec Ry J 62:931-4 D 1 '23

EL PASO and Southwestern railroad
I.C.C. approves merger of Western railroads. Eng N 93:607 O 9 '24; Ry Age 77:611-12 O 4 '24

ELUTRIATION
Potash from cement dust; concentration by elutriation. E. J. Fox and C. W. Whittaker. Ind & Eng Chem 16:1044-6 O '24; Abstract. Concrete (cement mill sec) 26:6 Ja '25

ELUTRIATORS. See Classifiers

ELYRIA, Ohio

Railroads
Important track elevation work completed at Elyria, Ohio. il plans Ry R 75:312-15 Ag 30 '24; Same. Eng & Contr (Ry) 62:1099-1103 N 19 '24

Sewerage
Activated-sludge process advised for Elyria. Ohio. Eng N 95:673 O 22 '25

EMBANKMENTS
Aesthetic treatment of drainage spoil banks. M. C. Taylor. Munic & Co Eng 68:138-9 Mr '25
Highway embankment construction across tidal marsh. W. W. Mack. il diag Eng N 92:233-4 F 7 '24
Highway revetment along the Delaware river. L. E. Andrews. il diag Eng & Contr (R & S) 64:55-6 Jl 1 '25
Protection of lake shores. il Can Eng 49:147 Jl 21 '25
Slide curing on Yazoo & Mississippi Valley R.R. diag Eng & Contr (Ry) 60:1320 D 19 '23
Steep embankments in Tacoma made by slow filling process. il Eng N 92:372 F 28 '24
Trench excavators build road grade across lake of mud from Salt Lake City to Nevada state line. il diag Eng N 94:686-9 Ap 23 '25
Wendover cutoff in Utah. H. C. Means. il Eng & Contr (R & S) 64:297-305 Ag 5 '25

See also Causeways; Dams; Dikes (engineering); Earthwork; Engineering; Levees; Railroads—Earthwork; Rivers—Bank protection

EMBARGO
Embargo—its purpose and proper use. C: Burlingame. Ry Age 78:1534 Je 20 '25
France's leather export embargo. W. J. Page. Am Ind 24:47 Mr '24
Government prohibitions, embargoes and licensing of imports and exports. W: S. Culbertson. Ann Am Acad 112:38-44 Mr '24

EMBASSY buildings
Competition for an American embassy in Rome. Am Arch 127:pl 149 Je 3 '25

EMBEZZLEMENT
Accountant versus embezzler. E. A. St John. J Account 37:441-51 Je '24
Alarming increase in embezzlements and similar financial crimes in the United States. E. A. St John. Econ W n s 28:707 N 15 '24
Cause and prevention of bank defalcations. M. K. Fowler. Bankers M 109:7-9, 197-200, 385-7 Jl-S '24
Cause and prevention of bank defalcations. M. K. Fowler. 150p Bankers pub. co., New York '24
Defalcations. F. W. Lafrentz. J Account 37: 254-61 Ap '24; Same. Paper Tr J 78:56-8 Ap 24 '24
Is it embezzlement when commissions are not paid in? A. H. Harris. Credit M 27:28+ Ja '25
Trying to cut down embezzlement. E. A. St John. Am Ind 25:31-2 D '24

EMBRYOLOGY
Genetics and wool production. A. F. Barker. il diags Textile Inst J 15:P603-17 D '24

EMBURY, Aymar
Some work of Aymar Embury II in the Sand Hills of North Carolina. R. J. Whitehead. il plans Arch Rec 55:505-68 Je '24

EMERGENCY fleet corporation. See United States—Emergency fleet corporation

EMERY, Lewis, 1839-1924
Sketch. D. A. Dennison. por Nat Pet N 16: 92-3 N 26 '24

EMERY
Marketing emery and corundum. H. A. Plusch. il Eng & Min J 118:339-40 Ag 30 '24

EMIGRATION. See Immigration and emigration

EMINENT domain
Excess condemnation in city planning. F. B. Williams and others. Am Soc C E Pro 51: 1416-52 S '25; Discussion. 51:1861-72, 2073-4 N-D '25
Massachusetts laws relating to the taking of private property. N E Water Works Assn J 38:343-52 D '24
Protecting the city plan. P. Nichols. Boston Soc C E J 12:355-7 O '25

EMMETT mercury boiler. See Boilers, Mercury

EMMONS, George Edward, 1857-
Sketch, J: T. Broderick. por Gen Elec R 27: 776-9 D '24

EMODIN
Trihydroxy-methylanthraquinones; synthesis of emodin. R. A. Jacobson and R. Adams. Am Chem Soc J 46:1312-16 My '24

EMPIRE cotton growing corporation
Activities. Textile Inst J 15:P632-7 D '24

EMPIRE mining and metallurgical congress
Empire mining and metallurgical congress, Wembley, June, 1924. Engineer 137:624-5, 660-1 Je 6-13 '24; Elec R (Lond) 94:984-5, 1024, 1064-6 Je 13-27 '24; Engineering 117: 739-42, 759-62 Je 6-13 '24; Iron Tr R 74: 1639-40 Je 19 '24
Inaugural session, Wembley, England, June 3. W. A. Doman. il Eng & Min J 117:1056-62 Je 28 '24
Meeting, London, June 3-6. Inst Pet Tech J 10:371-605 Jl '24

EMPIRE natural gas company
Year of success that was based on good service. map Gas Age 55:225 F 14 '25

EMPIRE state gas and electric association
Annual fall meeting, Schenectady, Nov. 21-22. Elec W 82:1136-7 D 1 '23
Annual meeting of the gas section, Utica, N.Y., March 5-6. H. O. Andrew. Gas Age 55:369-70 Mr 14 '25
Meeting of gas section, Binghamton, March 6-7. Gas Age 53:315-16 Mr 15 '24

EMPIRE textile conference
Conference, Wembley, June 10-12, 1924. Textile Inst J 15:P149-89, P285-404, P429-83 Je, Ag-S '24

EMPLOYEES
Can you turn a college man loose in your factory? R. C. Kelley. Factory 34:924-6+ Je '25
What makes employees differ? D. A. Laird. charts Ind Management 67:184-90 Mr '24

See also Ability tests; Advertising and employees; Age; Apprentices; Arbitration, Industrial; Automobile factories—Employees; Bank employees; Bonus system; Building trades—Labor problems; Clothing trade—Labor problems; Cotton mills—Employees; Dairy workers; Dental service, Industrial; Disabled—Rehabilitation; Efficiency, Industrial; Electric plants (central stations)—Employees; Electric railroads—Employees; Electric utilities—Employees; Employees' associations; Employees' representation in management; Employment management; Employment systems; Eye—Examination; Foremen; Gas companies—Employees; Gasoline service stations, Factory; Government employees; Hygiene, Industrial; Job analysis; Labor and laboring classes; Labor turnover; Medical service, Industrial; Mental hygiene, Industrial; Motor bus lines—Employees; Municipal employees; Occupations; Occupations, Choice of; Office workers; Oil companies—Employees; Paper mills—Employees; Pensions, Industrial; Petroleum refineries—Employees; Railroads—Employees; Saving; Steel workers; Street railroads—Employees;

EMPLOYEES—*Continued*
Suggestion systems; Taxicab drivers; Textile workers; Wages; Watchmen; Welfare work in industry; Woman—Employment

Clothing

Safe clothing. J: M. Sandel. Nat Safety N 11: 36 F '25

Identification

Undesirables keep out! watchmen and badges. L. M. Stowell. Management & Adm 9:437-8 My '25
Why our paymaster knows every worker by name. D. S. Greer. il Factory 35:568+ O '25

Length of service

Honor industrial service stripes. W: C. Lyon. Nation's Business 12:27 Ja '24
Recognition of long-time service. L. D. Burlingame. il Management & Adm 6:767-9 D '23
Trenton honors her industrial veterans. W. Bishop. Nation's Business 12:42+ Ag '24

Physical examinations

See Physical examinations

Promotion

Borden system of building a sales force. A. H. Deute. Ptr Ink 126:17-20 Ja 24 '24
Filling vacancies from within the ranks. B. S. Beach. Ind Management 67:90 F '24
Methods of promoting industrial employees. P. F. Germill. Ind Management 67:235-47 Ap '24
Reducing labor turnover by promotion. K. H. Condit. Am Mach 60:539-41 Ap 10 '24
Smoothing out friction in inter-departmental promotions. A. F. Dodge. Ind Management 69:244 Ap '25

See also Employment management

Rating

Employee follow-up and the rating scale. W: H. Woodruff. Am Management R 14:4-7 Ja '25
Employee specifications. P. M. Atkins. Ind Management 68:115-18 Ag '24
Employees' past. D. A. Laird. charts Ind Management 68:152-60 S '24
Method of rating employes at Cheney plant. chart Textile World 65:1985-6 Mr 22 '24
Our employees check up on themselves. J: Shepard, jr. System 46:591+ N '24
Personal opinion records and rating scales. H: C. Link. Ind Management 67:78-80 F '24
Practical system for rating shop employees. A. H. Rodrick. Factory 32:32+ Ja '24
Recording the worker's personality. D. A. Laird. Ind Management 68:307-14 N '24
System devised for oil company employes to gauge selves. Nat Pet N 15:72+ D 5 '23
Wanted—a yard-stick to measure men. J: R. Godfrey. Am Mach 61:797-8 N 20 '24

See also Ability tests; Executives—Rating; Foremen—Rating

Selection

See Employment systems

EMPLOYEES, Government. See Government employees

EMPLOYEES, Municipal. See Municipal employees

EMPLOYEES, New
Breaking-in the new employee. M. A. Myers. Ind Management 70:282-3 N '25
Employee rules that make new employees feel at home. Ptr Ink M 9:130+ S '24
Teaching safety to new employees. Nat Safety N 11:45-51 Mr '25
Welcoming the new employee. Ptr Ink 133: 101-2 O 15 '25

EMPLOYEES, Selection of. See Employment systems

EMPLOYEES, Training of
Business economics taught to workers at Delco plant. H. Tipper. Automotive Ind 49: 1194-5 D 13 '23
Coaching our workers to meet 1924 labor costs. F. L. Sweetser. il System 45:172-4+ F '24
Co-ordinating employe training; abstracts. L. A. Hartley. Iron Tr R 76:1451-4 Je 4 '25; Iron Age 115:1647-9 Je 4 '25; Automotive Ind 52:1026-7 Je 11 '25; Foundry 53:522-5 Jl 1 '25
Educational program in Boston, Elec Ry J 64:770 N 1 '24
Every one knows us now; training employees in public speaking. S. Perry. il System 48: 178-9 Ag '25
Examining and teaching platform men. il Elec Ry J 65:657-9 Ap 25 '25
Fitting the college man into industry. W. D. Stearns. il Prof Eng 9:11-13 F '24
Group plan of economic study is best. Iron Tr R 74:860 Mr 27 '24
In training your men, watch these points. G. L. Gardiner. Factory 34:774-5 My '25
Rational works management in factories. J: A. Davenport and J. I. Emery. Ind Management (Lond) 10:270-2 N 15 '23
Sub-committee report on development and education of personnel. Am Gas Assn Accounting sec v 5:330-43 '23
Successful experiment in industrial education; Great Western sugar co. D. J. Roach. Chem & Met Eng 31:272-3 Ag 18 '24
Teach your employes to think. C. R. Dooley. Nation's Business 12:25-7 N '24
Training carmen to give better service. il Elec Ry J 64:157-8 Ag 2 '24
Training employes in production work. L. M. Gilbreth. il charts Soc Auto Eng J 17:399-408 O '25; Abstracts. Am Mach 63: 425g S 24 '25; Automotive Ind 53:531-3 S 24 '25
Training men for automobile work. J: Younger. il Am Mach 61:423-5 S 11 '24
Training men quickly for special needs. J. W. Russell. il Factory 32:668-70+ My '24
Training of power supply engineers; a scheme involving a three-year course of training. F. G. Bromley. Elec R (Lond) 96:952 Je 12 '25
Training repair shop personnel. J. F. McDonald. Soc Auto Eng J 17:202-4 Ag '25
Training the planning staff; methods used by Canadian consolidated rubber company. D. Ross-Ross. chart Management & Adm 9:375-8 Ap '25
Training the young college man in business. R. Dickinson. Ptr Ink 131:134+ Je 4 '25
Training workers at night. M. B. Lloyd. il Factory 31:754-5 D '23
Vocational selection and training of operatives for the weaving industry. J. A. Fraser. Textile Inst J 14:T542-8 D '23
Why we hire young men—and how we train them. N. B. Hickox. Sales Management 7: 1447-8 S '24

See also Apprentices; Corporation schools; Executives—Training; Foremen—Training; Industrial education; Railroads—Employees—Training; Salesmen—Training

Bibliography

Personnel administration; a bibliography. W: H. Rossi and D. I. P. Rossi. p. 151-83 Williams & Wilkins co., Baltimore '25

EMPLOYEES, Transportation of
Hauling workers at Ford headquarters. plan Bus Transportation 2:561-3 D '23

EMPLOYEES as managers
Experiment in mine management in Wales. Monthly Labor R 20:993 My '25

EMPLOYEES as stockholders
Adventure in employee-ownership; plan of the Bank of Italy. F. S. Clark. Burroughs Clearing House 9:17-18+ Mr '25
Bank of Italy employees to have controlling interest. A. P. Giannini. Am Bankers Assn J 17:304 N '24
Bank's stock made available for employees on monthly payment plan. F. L. Page. Bankers M 109:100-1 Jl '24
Broad economics of employee ownership. T. N. Carver. Elec Ry J 64:613-16 O 11 '24; Same cond. Aera 13:372-82 O '24

EMPLOYEES as stockholders—*Continued*
Business turned over to employees; H: A. Dix & son. H. Brucker. Comm & Fin 13: 527 Mr 12 '24
Can we have true industrial democracy? Ry Age 78:215-16 Ja 17 '25
Dix transfer. T. Hultgren. Univ J of Business 2:406-13 S '24
Employe bondholders. Am Ind 25:47 Je '25
Employees and management, partners. Ry Age 78:1260-2 My 23 '25; Discussion. J. C. Harvard. 79:6 Jl 4 '25
Employes as capitalists; own many shares of stock. A. J. Hain. Iron Tr R 76:1635-6 Je 25 '25
Employees to be given control of bank of Italy. Bankers M 109:982-3 N '24
Extra compensation plan adopted by the Bank of Italy. Am Bankers Assn J 17:452+ Ja '24
General Motors has plan to hold its key men. Ptr Ink 125:33-4+ N 15 '23
Industrial democracy in a foundry; the plan devised by John J. Eagan for American cast iron pipe co. P. A. Ivy. Iron Age 115: 1785-6 Je 18 '25; Same. Munic & Co Eng 68:325-8 Je '25
Labor's share in ownership. A. Williams. Econ W n s 29:514 Ap 11 '25; Same. Safety Eng 49:259-60+ Je '25
Letting employes buy the bank. F. R. Kerman. Nation's Business 13:78+ N '25
Making capitalists out of workers. F. C. Biggert, jr. Am Ind 25:35-6 Ag '24
Making kodaks and contentment. J: E. Webber. il Am Ind 25:27-30+ N '24
More than 22,000 G. E. employes hold company bonds. Pub Serv Management 38:189 Je '25
National city bank lets employees share in stock. Bankers M 110:111 Ja '25
Oil company executives watching result of stock distribution to employes. Nat Pet N 17:68+ Ag 19 '25
Plan for selling securities to employees. Gas Age 54:768 N 29 '24
Popular ownership of property: its newer forms and social consequences. W: L. Ransom and P. T: Moon, eds. 198p Academy of political science, Columbia univ., New York '25
Railroad employees' stock subscription plan. Monthly Labor R 20:945-6 Ap '25
Railways selling securities to car riders and employes. K. L. McKee. Aera 13:825-34 D '24
Report of sub-committee on security holders records and customer and employee partnership in public utilities. Am Gas Assn Accounting sec v 6:361-82 '24; Excerpt. Gas Age 54:513-16 O 11 '24; Discussion. Am Gas Assn Accounting sec v 6:445-53 '24
Sharing a business with its workers; Dennison manufacturing co. R. R. Updegraff. il Forbes 15:398-400 Ja 1 '25
10,000 employee-owners in the Brooklyn-Manhattan transit company. Elec Ry J 66:144 Jl 25 '25
Textile employe as a stockholder or partner. J: Calder. Textile World 65:756-8 F 2 '24
What can the employer do to encourage saving and wise investment by industrial employees? C. J. Hicks. Harvard Business R 2: 194-200 Ja '24
Why labor is opposed to employee ownership. M: Woll. Forbes 17:19+ N 1 '25
Why 70% of our 425 employees are stockholders. J. E. Dann. il Factory 33:800-2+ D '24

See also Trade unions—Investment funds

EMPLOYEES' associations
Employes' association 7,000 strong; Pacific gas & electric company of California. Pub Serv Management 39:78-9 S '25
Employees club conducts successful program of welfare work. D. Blanchard. Automotive Ind 50:832-3 Ap 10 '24
Employees of the Chester Valley line, West Chester, Pa., and the officials organize the Chester Valley lines employees' association. Bus Transportation 4:253 My '25
Keeping down labor turnover. F. H. Williams. Inland Ptr 73:612 Jl '24
Less welfare, more well-being. J. D. Dort. Factory 33:213-14 Ag '24
Model employees' organization. W. Measday, jr. N E L A Bul 11:556-7 S '24
Organization and activities of employees. G: H. Wilmarth. Gas Age 56:151-2 Ag 1 '25

See also Benefit societies

EMPLOYEES' lunchrooms. See Lunchrooms and cafeterias, Employees'

EMPLOYEES' magazines
Cheesy art has no place in a public utility house-organ. J. G. Jeffery. Aera 14:547-8 O '25
Cooperation through plant publications. W. R. R. Winans. Iron Age 113:647-9 F 28 '24
Editor's place in the management. J. E. Smith. Management & Adm 6:749-50 D '23
Employees magazine—its duties and opportunities. Nat Safety N 8:39-45 D '23
Employee's magazine—why and whither? J. R. de la Torre Bueno. Nat Safety N 9:37 F '24
Employees' magazines emerge from their post-war slump. Ptr Ink 128:134+ Ag 28 '24
Facts or bunk, which? D. C. Vandercook. Factory 34:591-3+ Ap '25
Function of employees' magazine. H. Parkes and others. Ry Age 76:831-4 Mr 29 '24
Giving the employee the ownership viewpoint. D. C. Vandercook. Ptr Ink M 8:50+ Mr '24
House organs reducing sales resistance and plant publications aid goodwill spirit. A. J. Hain. il Iron Tr R 76:998-1001 Ap 16 '25
How big manufacturers are getting support of employee-owners. D. C. Vandercook. il Ptr Ink M 7:43-4+ D '23
How to make a house organ live. S. W. Ashe. Elec W 83:1030-1 My 17 '24; Same. Nat Safety N 10:35 Ag '24
Instructing workers through the company magazine. A. W. Rowley. Am Management R 14:41-3 F '25
Making the employee publication really pay. D. C. Vandercook. Factory 31:755-6+; 32: 34-6+ D '23-Ja '24
Making the internal house-organ deliver the goods. H. Botsford. Factory 32:262+ F '24
Teaching economics through the employees' publication. D. C. Vandercook. Ind Management 69:308-11 My '25
Topic handling and phrasing in the plant magazine. R: G. Conover. Nat Safety N 11:39 Ja '25
What employee publications are doing to improve industrial relations. W. R. R. Winans. Ind Management 69:212-14 Ap '25
What shall we put in our salesmen's publication? Sales Management 8:807-8 My 30 '25
What should you run in employees' magazines. S. Patterson. Iron Age 115:403 F 5 '25
What the employees' magazine has meant to our company. E. Augustus. Nat Safety N 12:41-2 O '25
What the personnel publication can do for the worker. D. C. Vandercook. Ind Management 66:307-10 N '23

See also American railway magazine editors' association.

EMPLOYEES' representation in management
Advisory control at Dutchess bleachery. D. G. Woolf. il Textile World 66:3707-8 D 27 '24
B. & O. extends scope of employee co-operative plan. E. W. Scheer. Ry Age 78:453-4 F 21 '25
Cooperation in industry. S: Rea. Min Cong J 10:421-3 S '24
Co-operation through employee representation. E. T. Whiter. Ry Mech Eng 97:798-9 D '23
Democracy as an ideal in industry. E. J. Kunst. Univ J of Business 3:305-13 Je '25
Dennison company's works committee. F. Meine. Univ J of Business 2:81-111 D '23
Discussion on employee representation. A. H. Young. Iron Age 114:689-91 S 18 '24
Employee-employer counsel in industry. C: A. Coffin. Elec W 83:1082-3 My 24 '24

EMPLOYEES' representation in management —*Continued*
Employee representation: control of committee policies. J. H. Vertrees. Am Management R 13:7-8 Mr '24
Employee representation on the railroads. H: C. Metcalf. Ry Age 77:1062-5 D 13 '24
Employe representation; the Pennsylvania railroad plan. 95p Pennsylvania railroad co., Philadelphia '25
Employes committee plan of the Utah copper company. L: S. Cates. Min Cong J 11:261 Je '25
Employees' co-operative plan to be inaugurated on Canadian National. Ry R 75:925-6 D 6 '24
Employes' representation in coal mines. B. M. Selekman and M. Van Kleeck. 454p Russell Sage foundation, 130 E. 22d st., New York '25; Reviews. Safety Eng 49:99-105 Mr '25; Monthly Labor R 20:759-62 Ap '25
Employes' representation in steel works. B. M. Selekman. 293p Russell Sage foundation, 130 E. 22d st., New York '24; Abstract. Monthly Labor R 20:762-4 Ap '25
Employees to aid in settling their problems. S. Insull. Gas Age 54:104+ Jl 19 '24
Employment representation plan shows remarkable growth. Am Mach 62:220f Ja 29 '25
Growing interest of labor in management. R. Dickinson. Ptr Ink 132:97-100+ Jl 23 '25
Growth of works councils in the United States; a statistical summary. 15p Nat. industrial conference bd., inc., New York '25
How Dennison handles broad problems of management. R. W. Johnson. Sales Management 8:137-8+ Ja 24 '25
How industrial democracy is faring. Comm & Fin 14:243 F 4 '25
How we brought management and worker together. W. W. Atterbury. il System 45: 42-5+ Ja '24
Increasing production through partnership with employes. B. M. Selekman. Textile Col 47:83-5 F '25; Same. Color Tr J 16:29-32 F '25
Industrial democracy from a Catholic viewpoint. J: A. Ryan. 12p Rossi-Bryn co., Washington, D.C. '25
Industrial democracy in a foundry; the plan devised by John J. Eagan for American cast iron pipe co. P. A. Ivy. Iron Age 115:1785-6 Je 18 '25; Same. Munic & Co Eng 68:325-8 Je '25
Industrial organization; developments and prospects. J: Lee. 121p Pitman '23
Industrial relations plan stands time test; Colorado fuel and iron company, Pueblo. G. L. Lacher. il Iron Age 115:325-30 Ja 29 '25
Joint representation Colorado fuel and iron company. A. H. Lichty. Min Cong J 11: 262-4 Je '25
Knox factory workers basis of new marketing plan. A. Belden. Ptr Ink M 7:21-2+ D '23
Labor problems in a Siberian plant; operating a coal mine and coke by-products plant under the Soviet. S: S. Shipman. Ind Management 70:248-52 O '25
Labor's growing share in management—is it effective? Factory 34:29-32 Ja '25
Legal nature and economic significance of the German works councils. H. Dersch. Int Labour R 11:169-79 F '25
Lynn plan of shop representation. S. S. Ringer. Management & Adm 9:163-4 F '25
Management warms the bench while employees boost sales; annual bonus without expense to St Joseph, Mo., oil company. Ptr Ink 126:53-4 Mr 6 '24
Merchant's horizon. A. L. Filene. 265p Houghton '24
Obligations of employers in successful production. A. H. Young. Automotive Ind 50: 1064 My 15 '24
Personal relation in industry. J: D. Rockefeller, jr. 149p Boni & Liveright, New York '23
Philadelphia rapid transit cooperative plan—a critical survey. D. D. Kennedy. Ind Management 68:367-72 D '24
Problem of workers' control in Belgium. M. Gottschalk. Int Labour R 11:329-52 Mr '25
Progress in industrial relations in 1923. il Textile World 65:759-60 F 2 '24
Pulling together (with sequel). J: T. Broderick. 167p Robson & Adee, Schenectady, N.Y. '23
Representative government in industry. J. Myers. 249p Doran '24
Rise of industrial democracy. D. S. Kimball. Management & Adm 7:45-9 Ja '24
Sharing management with the workers. B. M. Selekman. 150p Russell Sage foundation, New York '24; Abstract. Monthly Labor R 20:231-3 F '25; Reviews. Ind Management 69: 32 Ja '25; Nation's Health 7:186-7 Mr '25
Sharing plant management with the workers. M. Van Kleeck. Chem & Met Eng 32:376-8 Mr '25; Same cond. Iron Age 115:273-4 Ja 22 '25
Structural features of shop-committee plans. J: W. Riegel. charts Harvard Business R 4:17-31 O '25
Success of a theoretical plan; the Rockefeller system of joint representation. D. W. Malott. Am Ind 24:31-2 My '24
Talk to Bethlehem's new partners. E. G. Grace. Nation's Business 12:18-19 Je '24
Wage earner's participation in management in the United States; Russell Sage foundation studies. Int Labour R 12:262-70 Ag '25
What we think of industrial democracy, after 7 years. W: P. Hapgood. il Factory 33:187-9+ Ag '24
Why our men are turning out more at lower costs. M. P. Whittall. il Factory 32:21-4+ Ja '24
Why our workmen produce 30% more than they did. E. Romanet. il Factory 33:782-5+ D '24
Why we have no breaks with labor. D. G. Snodgrass. System 46:578-80 N '24
Workmen's representation in industrial government. E. J. Miller. (Studies in the social sciences, v. x, nos. 3 and 4) 182p Univ. of Illinois, Urbana '24
Works council movement in Germany. B. Stern. U S Bur Labor Statistics Bul 383:1-114 [bibliog. p. 113-14] '25
Works councils; employe representation has evolved distinct types. Index p 6-7 Ap '25
Works councils in Germany. M. Berthelot. 138p [bibliog. p. 135-8] International labour office, Geneva '24
Works councils in Japan. Int Labour R 11:239-43 F '25

See also Industrial councils; Safety committees; Shop committees

EMPLOYEES' widows. See Pensions, Industrial

EMPLOYERS' associations
Some tendencies of employers' organisations in 1923. Int Labour R 9:208-26 F '24

EMPLOYERS' liability
Decisions of courts and opinions affecting labor, 1922. L. D. Clark and D. F. Callahan. U S Bur Labor Statistics Bul 344:81-134 '23
Failure to equip pneumatic hammer with safety device renders employer liable. L. Childs. Am Mach 60:209-10 F 7 '24
Law on employment of a minor. L. Childs. Am Mach 62:341-2 F 26 '25
Report of N.W.D.A. committee on employer's liability and workmen's compensation. Oil Paint & Drug Rep 106:17 O 1 '24
Unnecessary exposure to danger not justified in law. L. Childs. Eng N 93:93 Jl 17 '24

See also Accidents, Industrial; Workmen's compensation

EMPLOYERS liability insurance. See Insurance, Employers' liability

EMPLOYMENT
Economics of employment. Moody's Inv Serv 17:189-91 Je 4 '25

Statistics
Continued decline in employment and payrolls in selected industries in the United States. Comm & Fin Chr 119:251-3, 514-16, 1117-19 Jl 19, Ag 2, S 6 '24
Continued depression in industrial conditions in Illinois, Pennsylvania and New York. Comm & Fin Chr 119:750-1 Ag 16 '24

EMPLOYMENT—Statistics—*Continued*
Employment and unemployment. Published in monthly numbers of International labour review and in Monthly labor review
Employment index, 1895-1925. Moody's Inv Serv 17:192 Je 4 '25
Factory employment. Survey of Cur Business 30:171 F '24 [continued quarterly]
Factory operations relative to full-time and to employment capacity. Survey of Cur Business 46:26 Je '25

EMPLOYMENT agencies
Public employment offices. S. M. Harrison and others. 685p [bibliog. p. 627-36] Russell Sage foundation, New York '24; Reviews. Am Ind 25:18-19 D '24; Gas Age 55:26+ Ja 3 '25
Public employment offices in Belgium. Monthly Labor R 19:182-3 Jl '24

Statistics
Employment agency operations. Survey of Cur Business 30:176-7 F '24 [continued quarterly]
Public employment offices; statistics. Monthly Labor R 21:373-82 Ag '25

EMPLOYMENT contracts
Proposed standard employment contract for chemists. L. Van Doren. Chem Age 32:98-9 F '24

EMPLOYMENT departments
Employment department as a training ground. E. J. Benge. Am Management R 13:3-4 Je '24
Employment department in the paper mill. F. S. Pope. Paper 34:278-9 Je 5 '24
Why we make up the pay-roll in the employment office. M. R. Lott. il Factory 33: 338-9+ S '24
See also Employment systems

EMPLOYMENT management
Accident prevention—labor's views. J. H. Maurer. Safety Eng 48:174-7 O '24
Accountant's office organization. E. G. Lee. J Account 39:470-3 Je '25
Analysis of personnel forms. D: R. Craig. Ind Management 70:122-4 Ag '25
Andrew Carnegie said—; high spots in the ironmaster's management methods. C: R. Flint. il System 44:752-3 D '23
Are they your men? winning the loyalty of your co-workers. R. J. Anderson. Forbes 13:519-20 F 2 '24
Are you missing the mark in management? B. J. Williams. Forbes 14:377-8 Je 21 '24
Basic factors of production. K. T. Keller. Soc Auto Eng J 17:494-5 N '25
Better understanding builds employee efficiency. R. Alden. Forbes 14:325-6 Je 7 '24
Breaking-in the new employee. M. A. Myers. Ind Management 70:282-3 N '25
Building a working team. W: Davenport. Am Mach 62:291-2 F 12 '25
Building permanency into personnel. W: Davenport. Power 61:105-6 Ja 20 '25
Building tractors under scientific management. G: D. Babcock. il Management & Adm 8:141-6 Ag '24
Burying the hatchet. E. White. Inland Ptr 76: 218-19 N '25
Business economics; report of proceedings, ninth national convention, New York city, October 18-20, 1922. 354p Society of industrial engineers, Chicago '23
Central control to cut costs. A. L. Irish. il Burroughs Clearing House 9:12-14+ Ag '25
Coaching our workers to meet 1924 labor costs. F. L. Sweetser. il System 45:172-4+ F '24
Develop the individual to build the business. R. Dickinson. Ptr Ink M 9:29-30 Jl '24
Dividends of satisfaction through personnel relations. L. B. Gough. Ind Management 67:278-9 My '24
Do you tell employees periodically just how they stand? S. Roth. Am Management R 13:3-4 O '24
Educating workmen to a sense of responsibility. C. F. Smith. Brick & Clay Rec 64: 431+ Mr 18 '24
Effective management through leadership and supervision. S: A. Lewisohn. Am Management R 13:6-7 N '24
Employment records. C. B. Bartlett. 71p Ronald press '24
Essentials of successful management. W. Attwood. Ind Management (Lond) 10:329-30, 358 D 13-27 '23
Evolution of personnel administration. C. S. Ching. Am Management R 14:112-14 Ap '25
Experimental psychology in personnel problems. C. S. Yoakum. Taylor Soc Bul 10:154-60; Discussion. 160-3 Je '25
Factors in industrial organisation. R: Wendorby. Cassier's Ind Management 11:409-10 S '24
Fairness. G. A. Moore. Inland Ptr 75:763-4 Ag '25
Five ways to help employees to do more work. A. G. Skeeles. Forbes 16:31-2 Ap 15 '25
Gaining the workers' confidence. P. F. Walker. Management & Adm 9:541-2 Je '25
Getting the best men in the machine business. J: R. Godfrey. Am Mach 60:781-2 My 22 '24
Giving the employees security; Prudential insurance company. W: W. Van Nalts. Am Ind 25:10+ My '25
Growth of an idea; safety goes hand in hand with close personal relationships. E. Branson. Blast F & Steel Pl 13:203-4 My '25
Harmony between superintendents and workers. N. M. Brisbois. Paper Tr J 78:40+ My 8 '24
Have a heart—a new slogan for sales managers. B. J. Williams. Ptr Ink M 8:28+ Ja '24
How a personnel department aids co-operation. E: M. Harris. Ry Age 77:323-5 Ag 23 '24
How Commonwealth steel simplifies problems of management. C. H. Howard. il Ptr Ink M 11:35-6+ Ag '25
How management can broaden the field of pivot men. S. Seiders. Forbes 15:698+ Mr 1 '25
How plant management influences the sales department. G. A. Nichols. Ptr Ink M 8:37-8+ Ja '24
How shall we criticize our men? A. Bradbury. Ptr Ink 126:3-6 Mr 20 '24
How to attack the labor problem. H: C. Metcalf. Ry Age 78:743-6 Mr 14 '25
How world famous steel works wins loyalty of workers; Schneider & Cie. O. D. Foster. il Forbes 14:661-4+ S 1 '24
Human factor in paper manufacture. E. J. McDonnell. Paper Tr J 78:42+ My 1 '24
Increased industrial acquaintanceship in the Bridgeport brass co., Bridgeport, Conn. Iron Age 113:211-14 Ja 17 '24
Increasing production. Engineer 139:715+ Je 26 '25
Indirect labor. W: F. Carmichael. Factory 34: 611-12+ Ap '25
Industrial cooperation at the Copper Queen branch of the Phelps Dodge corporation. H. C. Henrie. il Min Cong J 11:265-8 Je '25
Industrial leadership. S: A. Lewisohn. Am Management R 13:3-4 Ap '24
Industrial psychology; its scope and effect on efficiency. C: S. Myers. Paper Tr J 80: 61-3 My 7 '25
Industrial relations plan stands time test; Colorado fuel and iron company, Pueblo. G. L. Lacher. il Iron Age 115:325-30 Ja 29 '25
Intangible assets of the cement manufacturer. W. G. H. Cam. Concrete (cement mill sec) 26:7-10 Ja '25
Intelligent and sympathetic supervision as a factor in increased production. K. Huey. Am Management R 13:4-6 My '24
Interrelation of industrial relations and public relations. B. J. Mullaney. Am Management R 14:45-6 F '25
Introducing the practical man to modern management. H. S. Gilbertson. Ann Am Acad 119:115-20 My '25
Is the payroll dollar worth the mine dollar? H. J. Grossman. il Coal Age 26:571-3 O 23 '24

EMPLOYMENT management—*Continued*
The job, the man, the boss. K. M. H. Blackford and A. Newcomb. rev. ed. 276p Doubleday '25
Keeping the neighborly spirit as the business grows; the Craddock-Terry shoe company. R. Dickinson. Ptr Ink M 11:39-40 S '25
Keeping the sales organization happy and growing. B. J. Williams. Ptr Ink 132:3-4+ Ag 20 '25
Keeping the way open to the manager's desk. D. F. Kelly. System 45:489+ Ap '24
Labor turnover can be reduced. Iron Age 115:1406-7 My 14 '25
Letting the worker know. W. G. Cass. Cassier's Ind Management 12:158-9 F '25
Linking science and industry. H: C. Metcalf, ed. 206p Williams and Wilkins co., Baltimore '25
Locked in the minds of employees. W: R. Morehouse. Am Bankers Assn J 17:747-8+ Je '25
Lubricating a railroad organization. R. E. Woodruff. Ry Age 78:1337-40 My 30 '25
Magnetize your business to attract profit-making executives. Ptr Ink 127:3-4+ Ap 17 '24
Making of a section-hand. Textile World 66: 2365+; 67:1828-9+ O 25 '24, Mr 14 '25
Man who answers back. E. N. Simons. Cassier's Ind Management 11:9-10 Ja 10 '24
Man who knows it all. E. N. Simons. Cassier's Ind Management 11:319-20 Je '24
Man who won't be told. E. N. Simons. Cassier's Ind Management 12:443-4 S '25
Management and men. A. E. Hutt. Bus Transportation 4:226-7 My '25
Management experts discuss the human factor. il Textile World 64:2857-8 N 10 '23
Management's greatest opportunity. W. G. Caldwell. Ind Management 69:92-4 F '25
Management's responsibility towards its employees. P. Shoup. Nat Safety N 9:9-10 Je '24
Manpower in industry. E: S. Cowdrick. 388p Holt '24
Menschenwirtschaft. A. Friedrich. il diags Zeit Ver Deutsch Ing 68:405-13 Ap 26 '24
Method of increasing workshop efficiency. F. J. Sharr. Engineer 139:513-14 My 8 '25
Modern personnel administration and its application to the railways. H: C. Metcalf. il chart Ry Age 77:1016-20 D 6 '24
Morale as an industrial asset. R. F. Foster, jr. Am Ind 25:33-4 Ag '24
On finding the right man and keeping him. W. R. Needham. Elec R (Lond) 97:289-90 Ag 21 '25
Organizing and training the industrial personnel. B. O. Pickard. Nat Safety N 12:21-3 O '25
Organizing personnel work in a textile mill. E. C. Gould. Ind Management 68:280-2 N '24
Our biggest asset in management; the Scranton lace co. P. B. Belin. il System 47:187-9 F '25
Pay-roll dollar in industry. S. F. Fannon. Blast F & Steel Pl 12:500-3 N '24
Personal leadership in industry. D: R. Craig and W. W. Charters. 245p McGraw-Hill '25
Personnel administration in companies of 1,000 or less employees; addresses by M. Harrison and others. 28p American management assn., New York '24
Personnel management problems discussed at the American management association annual convention. Iron Age 115:403+ F 5 '25
Power plant personnel; selection, training, and promotion of steam power station employees. K. W. Stillman. il charts Management & Adm 8:633-6 D '24
Practical foremanship. G. L. Gardiner. 155p McGraw-Hill '25
Practical points on labor policy. B. A. Franklin. Management & Adm 8:611-14 D '24
Preparing employees to keep jobs in old age. E. H. Fish. Management & Adm 7:204 F '24
President's letters to his workers. G: F. Johnson. il System 46:270-4+, 441-5+, 583-7+, 724-8+; 47:46-50+, 164-8+, 320-4+ S '24-Mr '25
Principles of industrial cooperation outlined. Min Cong J 10:11-12 Ja '24
Problem of production. E. J. Guillemette. Ind Management 68:163-4 S '24
Quality and quantity of output depend upon trained employees; management in southern furniture plants. C: F. Scribner. Management & Adm 10:267-70 N '25
Receiver comments on training men for your competitor's benefit. J: P. Wilder. Sales Management 6:441-2+ Ja '24
Recognition of long-time service. L. D. Burlingame. il Management & Adm 6:767-9 D '23
Reducing labor costs through payroll analysis. E. C. Gould. Ind Management 67:263-4 My '24
Reducing the labor costs in banks. E: P. Vollertsen. Bankers M 111:15-18 Jl '25
Reduction of textile payroll losses. J: F. Sherman. Textile World 65:780-1 F 2 '24
Relation of engineering education to industry. S: A. Lewisohn. J Eng Educ 16:146-57 O '25
Researches in mental hygiene in industry; personnel science and administration from the standpoint of a hygienist. H: B. Elkind. J Ind Hygiene 7:396-406 S '25
Saving $1,000 every business day. H. T. Morgan. System 47:741-6+ Je '25
Science and management. H. A. Richmond. Am Management R 13:5-7 Mr '24
Scientific management and personnel work. M. B. Gilson. Taylor Soc Bul 9:39-50 F '24
Selling the company to its employees. P. W. Herring. Am Gas J 123:200+ S 5 '25
Shop character. E. H. Trick. Factory 33:512-13+ O '24
Should personnel work follow a worker home? M. R. Lott. Factory 32:673-4 My '24
Some aspects of personnel research in a manufacturing organization. J. W. Dietz. Ann Am Acad 119:103-7 My '25
Some important aspects of our industrial development. J. F. Tinsley. Textile World 67:2291-3 Ap 4 '25
Story of an utopian mill. E. C. Hart. Paper 33:14 Mr 13 '24
Studies in emulsions. W: Seifriz. diags J Phys Chem 29:587-600 My '25
Sub-committee report on errors—their correction and prevention. Am Gas Assn Accounting sec v 6:326-47 '24
Supervision of railway bridge and building forces. G: W. Rear. Eng & Contr (Ry) 60: 1076-7 N 21 '23
Taking the guesswork out of business. W: R. Basset. Forbes 14:551-2+ Ag 1 '24
"Tell truth" retains employes. E. C. Kreutzberg. Iron Tr R 74:1357-60 My 22 '24
Tip on managing people. J. Ream. Am Management R 13:6-7 Ap '24
We didn't need more men, after all. il Factory 35:50-2+ Jl '25
What executives must learn in next 50 years. S. Seiders. Forbes 15:625-7 F 15 '25
What 15 years experience handling men has taught me. P. S. Trowbridge. Brick & Clay Rec 64:184-7 F 5 '24
What to do today about tomorrow's labor problems. J. Logan. Paper Tr J 78:55-6 Ja 24 '24
When salesmen arbitrarily demand increases in salaries. A. Jameson. Ptr Ink 127:17-19 My 1 '24
Where do your workmen park their cars? M. Droke. il Factory 34:753-4+ My '25
Which companies have the lowest labor turnover in America? W. J. Held. Forbes 16: 258+ Je 1 '25
Which companies have the lowest labor turnover in America? C. J. Hicks. il Forbes 16: 748+ S 1 '25
Why we could carry on in '93. C: L. Huston. System 47:757-61+ Je '25
Why we have no "high hats" in our business. A. T. Downer. il System 47:761-4+ Je '25
Winning the foreman's help. H. Diemer. Am Mach 63:775-7 N 12 '25

EMPLOYMENT management—*Continued*
Woman who manages girls speaks her mind. P. H. Welch. Forbes 15:687-8 Mr 1 '25
Work and program of the American management association. W. J. Donald. Ann Am Acad 119:140-2 My '25
Works managers who fail. E. N. Simons. Cassier's Ind Management 11:441-2 O '24

See also Absenteeism (labor); Advertising and employees; Athletics; Bank employees; Bonus system; Building trades—Labor problems; Bulletin boards; Classification of positions; Dental service, Industrial; Employees—Promotion; Employees, Training of; Employees, Transportation of; Employees as stockholders; Employees' magazines; Employees' representation in management; Employment departments; Employment systems; Factory management; Foremen; Government employees; Industrial management; Industrial relations; Job analysis; Labor turnover; Leadership; Lunch rooms and cafeterias, Employees'; Lunches; Medical service, Industrial; Night work; Organization in industry; Overtime; Paper mills—Employees; Psychology—Industrial applications; Sales management; Saving; Sick leave; Suggestion systems; Tardiness (employees); Unemployment—Relief measures; Vacations; Wage payment plans; Welfare work in industry; Woman—Employment

Bibliography

Personnel administration. W: H. Rossi and D. I. P. Rossi, comp. 365p Williams & Wilkins co., Baltimore '25
Readers' guide to management literature. E. V. McCollough. Ind Management 69:98-107 F '25

Incentives

Educating employees to a better understanding of business fundamentals. H. Walsh. Am Management R 14:82-3 Mr '25
Employee loyalty and the inventive spirit. C. L. Jenks. Ind & Eng Chem 16:86-8 Ja '24
Our men like to work; Alliance (Ohio) clay products co. O. Wilcox. il Brick & Clay Rec 67:32-5 Jl 7 '25
Our way of putting creative interest into humdrum jobs. W. Brown. il Factory 33: 39+ Jl '24
Responsibility develops men, said George E. Keith; from the recollections of his son and successor, Harold C. Keith. System 45:484-5 Ap '24
Some practical suggestions on costs and production. W. Webb. Ind Management 70:24 Jl '25
Unique works contest. Management & Adm 9:174-5 F '25
Urge to securing high plant economy. Elec W 86:172 Jl 25 '25
We harnessed the sports instinct. H. M. Robins. il Factory 35:544-6 O '25
Will a Christmas gift build employee goodwill? life insurance policies. System 48: 576-7 N '25

See also Bonus system; Profit sharing; Wage payment plans

Measurement

Measuring personnel management. W. W. Charters. Am Management R 14:150-1 My '25

Rules

Employee rules that make new employees feel at home. Ptr Ink M 9:130+ S '24
How Spirella caught the employees' viewpoint; rules and regulations. Ptr Ink 126:118 Mr 20 '24
Rules for employees that improve harmony and increase efficiency. Ptr Ink 125:121-2+ N 8 '23
Welcoming the new employee. Ptr Ink 133: 101-2 O 15 '25

Study and teaching

Course in personnel administration; syllabus and questions. O. Tead. 246p Columbia university press, New York '23

See also Industrial service movement

EMPLOYMENT of children. See Child labor
EMPLOYMENT of women. See Woman—Employment
EMPLOYMENT systems
"Before you accept me as your boss." A. H. Deute. Ptr Ink 130:10+ F 12 '25
Cadet system in railroad service. W: J. Cunningham. Harvard Business R 3:404-13 Jl '25
Careful engagement reduces turnover. Elec Ry J 64:763-6 N 1 '24
Cartoon method of rating application. E. E. Richards. Ind Management 69:329 Je '25
Employee specifications. P. M. Atkins. Ind Management 68:115-18 Ag '24
Employee's past. D. A. Laird. charts Ind Management 68:152-60 S '24
Employment methods of the electric utilities of California; report of committee of Pacific coast electrical association. J Elec 52: 429-30 Je 1 '24
Factors in industrial organisation. R: Wendorby. Cassier's Ind Management 12:482-3 O '25
Filling staff vacancies. C. N. Lindsay. Cassier's Ind Management 12:372-3 Jl '25
Finding signs of successful employees. D. A. Laird. Ind Management 69:372-9 Je '25
Finding the right man for the job. B. S. Beach. Cassier's Ind Management 11:126 Mr 6 '24
How a spun silk plant fits men to its jobs. D. G. Woolf. Textile World 66:753-5 Ag 9 '24
Importance of personal records. J. C. Clark. il Ry Age 75:1007-8 D 1 '23
Industrial psychology of individual differences. D. A. Laird. charts Ind Management 67:71-7 F '24
Judging and selecting men. W: Davenport. Am Mach 62:377-8 Mr 5 '25
Labour recruiting in Japan and its control. S. Yoshisaka. Int Labour R 12:484-99 O '25
Managing the small employment department. M. Chapman. Factory 32:396+ Mr '24
Minimum specifications for jobs. A. B. McDaniel. Am Management R 14:80-2 Mr '25
Personal data and vocational fitness. D. A. Laird. Ind Management 69:163-72 Mr '25
Picking competent molders. R. J. Waldo. il diag Foundry 52:307-9 Ap 15 '24
Picking of managers. J. T. Broderick. Gen Elec R 28:178-82 Mr '25
Psychology dons overalls. D. A. Laird. Ind Management 67:204-11 Ap '24
Psychology of selecting men. D. A. Laird. 274p McGraw-Hill '25
Research and appropriate personnel. A. P. M. Fleming. Electrician 94:620-1 My 29 '25
Selecting and placing college graduates. J: Mills. Iron Age 115:757-9 Mr 12 '25
Selecting employees. 25p American management assn., 20 Vesey st., New York '23
Selecting employees to fit the needs of the foreman. T. G. Portmore. Am Management R 13:3-5 Mr '24
Selecting the salaried employee. E. J. Benge. Ind Management 69:279-83; 70:16-20 My, Jl '25
Some thoughts on selecting men for employment. W. G. Morgan. Ry R 75:84-6 Jl 19 '24
Three factors vital in hiring an executive. W: L. Fletcher. System 46:712+ D '24
Vocational selection and training of operatives for the weaving industry. J. A. Fraser. Textile Inst J 14:T542-8 D '23
We change the working-day, not the pay-roll. P. M. Duesing. Factory 35:196-8 Ag '25
What 86 years have taught us about selecting labor. H. B. Cheney. Factory 32:496-8+ Ap '24; Same. Monthly Labor R 18:933-45 My '24
What is the letter of application worth? D. A. Laird. Ind Management 67:336-42 Je '24

EMPLOYMENT systems—*Continued*
What it means to fire a man. A. J. Beatty. Forbes 16:727-8+ S 1 '25
Works records department. W. J. Hiscox. Cassier's Ind Management 11:265-6 My 15 '24
Young college man's value to business; experience of thirty-three industrial concerns. R. Dickinson. Ptr Ink 131:3-4+ My 21 '25
See also Ability tests; Applications for position; Employees; Employees—Rating; Employment agencies; Labor turnover; Physical examinations; Salesmen—Selection

Advertising
How, for only $210, we reduced a serious labor turnover. M. R. Machol. Factory 31: 756-7+ D '23
Recruiting from the colleges. J: Mills. Elec W 84:1382-3 D 27 '24
Westinghouse advertises to future customers and employees. Ptr Ink 129:110 D 11 '24
What kind of advertisements pull good salesmen? B. F. Berfield. Ptr Ink M 8:34-6 F '24

Interviews
Pitfalls of the employment interview. D. A. Laird. Ind Management 68:58-62 Jl '24
Some everyday problems in interviewing. L. G. Andrews. Ind Management 70:45-7 Jl '25

EMPORIA, Kansas
Rapid transit
Emporia chooses the bus. Bus Transportation 3:141 Mr '24; Same. Elec Ry J 63:349 Mr 1 '24

EMULSIFICATION
Iodine as an emulsifying agent. H. N. Holmes and H. A. Williams. Am Chem Soc J 47:323-5 F '25
Premier and other disintegrating mills and their applications in industry. F. J. C. China. diag Chem Age (Lond) 10:374-6 Ap 12 '24
Theory of emulsification. P. Finkle, H. D. Draper and J. H. Hildebrand. diags Am Chem Soc J 45:2780-8 D '23

EMULSIFIERS
Pfaudler emulsifier for high-grade products. il Chem & Met Eng 29:1148 D 24 '23

EMULSIN
Hydrolysis of the *d*-glucosides of *d*- and *l*-borneol with emulsin. S. Mitchell. Chem Soc J 127:208-9 Ja '25

EMULSIONS
Centrifugal separation of gas-works emulsions. T. H. Prater. Gas J (Lond) 166:118-19 Ap 9 '24; Abstract. Gas Age 54:188 Ag 9 '24
Chemistry of colloids. E. Rideal. Chem Age (Lond) 10:137 F 9 '24
Emulsion films. H. N. Holmes. J Phys Chem 29:1205-10 O '25
Emulsions in the textile industry. K. Linder. Am Dyestuff Rep 13:212+, 252 Ap 7-21 '24
Grain size and distribution in emulsions; abstract. S. E. Sheppard. J Fr Inst 199:553-4 Ap '25
Hurrell homogeniser. diag Chem Age (Lond) 12:398 Ap 25 '25
Interfacial tension of some aqueous solutions against oils, as corrected for specific gravity. R. L. Howard and T. Sollmann. J Phys Chem 28:1291-6 D '24
Monomolecular films of sodium ricinoleate in emulsions. P. A. van der Meulen and W: Rieman. Am Chem Soc J 46:876-80 Ap '24
Monomolecular soap films in emulsions. W: Rieman, 3d and P. A. van der Meulen. Am Chem Soc J 47:2507-14 O '25
New method for the determination of the distribution of size of particles in emulsions. E. O. Kraemer and A. J. Stamm. diag Am Chem Soc J 46:2709-18 D '24
Physical chemistry of oil-field emulsions. D. B. Dow and C. E. Reistle, jr. U S Bur Mines Rep of Invest 2692:1-14 Je '25 (typew)
Size-frequency distribution of grains of silver halide in photographic emulsions and its relation to sensitometric characteristics. E. P. Wightman, A. P. H. Trivelli and S. E. Sheppard. il J Phys Chem 28:529-43 Je '24
Some notes on the dehydration of water gas tar emulsion. L. J. Willien. diags Gas Age 52:581-3 N 10 '23
Studies in emulsions. W: Seifriz. J Phys Chem 29:587-600, 834-41 My, Jl '25
Studies in emulsions; double reversal of oil emulsions occasioned by the same electrolyte. W: Seifriz. il J Phys Chem 29:738-49 Je '25
Use of scattered light in the determination of the distribution of size of particles in emulsions. A. J. Stamm and T. Svedberg. il diags Am Chem Soc J 47:1582-96 Je '25
Variations in the cataphoretic mobilities of oil drops in water. M. Mooney. diag Phys R 23:396-411 Mr '24
Water gas tar filtration system at Malden, Mass. R. S. Carter. il Am Gas Assn Technical sec v 6:1427-31 '24; Same. Gas Age 54: 731-2 N 22 '24; Discussion. Am Gas Assn Technical sec v 6:1433-8 '24
See also Colloids

ENAMEL and enameling
Analysis of the suspension of enamel by clay in terms of the colloid theory. E. P. Poste. Am Cer Soc J 8:232-8 Ap '25
Art metal work. G. A. Banner. il Brass W 21: 257-60 Ag '25
Bacterial growth in enamel slip. J. G. Wahlin. Am Cer Soc J 7:160-2 Mr '24
Comparative crazing and chipping of wet and dry process cast iron enamels. J. T. Robson. il Am Cer Soc J 7:563-6 Jl '24
Design of an industrial baking oven. il diags plan Sheet Metal Worker 15:705-6 O 10 '24
Development of some jewelry enamels. H. G. Wolfram and W. N. Harrison. Am Cer Soc J 7:857-67 D '24
Discussion on plasticity. Am Cer Soc J (Bul) 7:375-9 O '24
Effect of furnace atmosphere on the firing of enamel. R. D. Cooke. Am Cer Soc J 7: 277-81 Ap '24; Discussion. (Bul) 7:437-42 N '24
Effect of zirconia in enamels for sheet steel. H. G. Wolfram. diag Am Cer Soc J 7:1-13 Ja '24
Effects of composition on the properties of sheet steel enamels. H. G. Wolfram and W. N. Harrison. Am Cer Soc J 8:735-55 N '25
Electrical oven bakes enamel. E: W. Roeser. il Foundry 51:632-4 Ag 1 '23; Same. Iron Tr R 73:1732-3 D 27 '23
Enameled watch-dial. Shizuo Shimomura. Am Cer Soc J 8 (Cer A 4):59 Mr '25
Enameling cast-iron ware in electric furnaces. H. E. Kennedy. il Chem & Met Eng 30:219-21 F 11 '24
Enameling defects due to cast iron. A. I. Krynitsky. il Am Cer Soc J 8:618-22 O '25
Enameling defects due to the cast iron. A. Malinovsky. il Am Cer Soc J 8:72-8 Ja '25
Exact notions of flourine enamels. C: Musiol. Am Cer Soc J 7:105-15 F '24; Discussion. 7: 115-17, (Bul) 224-8 F, Je '24
Factors affecting the warpage of sheet iron and steel in enameling. R. R. Danielson, T. D. Hartshorn and W. N. Harrison. il Am Cer Soc J 7:326-41 My '24
Gas as fuel for vitreous enameling. H. H. Clark. Am Cer Soc J 7:643-4 Ag '24
Method of control of enamel for dipping flat ware. R. R. Fusselbaugh and B. T. Sweely. Am Cer Soc J 8:303-6 My '25
Observations on hairlines in sheet iron enamels. J. E. Hansen and G. S. Lindsey. il diag Am Cer Soc J 8:356-60 Je '25
Plastic properties of enamel slip. R. D. Cooke. diags Am Cer Soc J 7:651-5 S '24; Discussion. (Bul) 8:226-7 My '25
Principles of enameling. H. F. Staley. Am Cer Soc J 8 (Cer A 4):59-61 Mr '25
Sandblast castings to be enameled. F. G. Jaeger. il Am Cer Soc J 6:976-9 S '23; Discussion. (Bul) 6:370-2 D '23

ENAMEL and enameling—*Continued*
Some notes on the color of antimony enamels. M. E. Manson. Am Cer Soc J 8:437-40 Jl '25
Suggestions for development in enameling technology. H. F. Staley. Am Cer Soc J 7: 719-25 O '24
Wet-process enamels for cast iron. R. R. Danielson and H. P. Reinecker. U S Bur Stand Tech Pa 246:695-735 '23; Abstract. J Fr Inst 197:401-3 Mr '24

See also Automobiles—Painting; Electric furnaces, Enameling; Enameled ware; Furnaces, Enameling; Pulsichrometer

ENAMELED ware
Heat transfer in enamel-lined apparatus. E. P. Poste. Ind & Eng Chem 16:469-70 My '24
Plebeian product is made aristocratic and sales jump; McClary's enameled ware. W. Lamont. Ptr Ink 129:85-6+ D 4 '24

Manufacture

European practice in the manufacture of enameled cast iron ware. J. Grunwald. Am Cer Soc J 7:118-21 F '24
Improved enamel ware. Chem Age 32:319 Jl '24
Manufacturing enameled ware utensils. F. G. White. il Blast F & Steel Pl 12:124-6 F '24

ENAMELING furnaces. See Furnaces, Enameling

ENDICOTT Johnson corporation
President's letters to his workers. G: F. Johnson. il System 46:270-4+, 441-5+, 583-7+, 724-8+; 47:46-50+, 164-8+, 320-4+ S '24-Mr '25

ENDOSMOSIS. See Osmosis

ENDOWMENTS

See Carnegie institute—Theodore Ahrens professorship; Colleges and universities—Gifts, legacies, etc.

ENERGY. See Force and energy

ENGINE stops. See Steam engines—Safety devices

ENGINEERING
Challenge; architecture and engineering. Am Inst Arch J 13:121-3 Ap '25
Communications scientifiques et faits industriels de l'année (1922-1923). 377p Payot, Paris '24
Engineering and construction experiences. C: T. Main and others. Boston Soc C E J 10: 431-48 D '23
Engineering failures and their lessons. E: Godfrey. 270p Superior printing co., Akron, O. '24
Engineering in American industry. C. N. Lauer. 94p McGraw-Hill '24
Engineering in literature. E. K. Clark. Engineer 137:258-9 Mr 7 '24
Erdbaumechanik auf bodenphysikalischer grundlage. K. Terzaghi. 399p F. Deuticke, Leipzig and Vienna '25
Esthetic side of the engineering profession. E. G. Bern. Sibley J 38:101+ Ap '24; Same cond. Am Inst Arch J 12:94-5 F '24
Financial engineering. 2d ed., rev. & enl. O. B. Goldman. 325p Wiley '23
Financial engineering. O. B. Goldman. Prof Eng 8:15 .N '23
Handbook on engineering (steam and electrical). H: C. Tulley. 7th ed., rev. & enl. 1155p McGraw-Hill '24
Hütte, taschenbuch für betriebsingenieure; hrsg. vom Akademischen verein Hütte. 1325p W. Ernst & sohn, Berlin '24
Influence of engineering. I. N. Hollis. Mech Eng 46:443-4 Ag '24
Machinery's scrap-book; interesting engineering items arranged in compact time-saving form. Published in monthly numbers of Machinery
Old habits and customs greatest obstacles to engineering progress. C: F. Kettering. Automotive Ind 52:668-9 Ap 9 '25
Progress and promise of engineering. D. S. Kimball. J Fr Inst 199:27-36 Ja '25
Reports on free engineering. W Soc E J 30: [current news] 93-5 Je '25; Same. Eng & Contr (W W) 64:364-6 Ag 12 '25; Same cond. Heat & Ven 22:75 Ag '25; Excerpt. Eng N 95:52-3 Jl 9 '25
Rise of the engineer; abstracts. C. R. Young. il Can Eng 45:423-6 O 23 '23; Eng & Contr (R & S) 60:988-92 N 7 '23; Eng N 91:918 D 6 '23
Die schönheit des ingenieurbaues. A. Stürzenacker. il Zeit Ver Deutsch Ing 68:1113-19 O 25 '24
Some engineering developments. H. W. Sutcliffe. Can Eng 48:418 Ap 21 '25
Some future problems in engineering. W: B. Parsons. J Fr Inst 200:219-34 Ag '25
What is the matter with engineering? G. M. Butler. Prof Eng 9:10-12+ D '24; 10:10-12+ Ja '25

See also Aeronautic engineering; Aeronautics; Agricultural engineering; Aqueducts; Arches; Architecture; Automobile engineering; Blasting; Breakwaters; Bridges; Building; Building materials; Canals; Chemical engineering; Civil engineering; Construction equipment; Curves; Dams; Dikes (engineering); Docks; Drainage; Dredging; Drilling and boring (earth and rocks); Earthwork; Efficiency, Industrial; Electric engineering; Embankments; Engineers; Foundations; Girders; Grouting; Harbors; Haulage; Highway engineering; Hydraulic engineering; Irrigation; Leveling; Lighting; Machinery; Manholes; Marine engineering; Masonry; Mechanical drawing; Mechanical engineering; Mechanical handling; Mechanics; Mensuration; Military engineering; Mining engineering; Models; Moving of structures; Municipal engineering; Pavements; Pipe laying; Public works; Pumping; Radio engineering; Railroad engineering; Railroads—Construction; Reclamation of land; Reservoirs; Rivers; Roads; Sanitary engineering; Sea walls, Concrete; Sewerage; Shore protection; Specifications; Standards, Engineering; Steam engineering; Steam engines; Strains and stresses; Strength of materials; Subways; Surveying; Technology; Tunnels and tunneling; Water supply engineering

Bibliography

Additions to Engineering societies library. See monthly numbers of Proceedings of the American society of civil engineers

See also Engineering handbooks

History

Engineering today and yesterday; a composite view. Eng N 92:642-51 Ap 17 '24
Professional progress, 1874-1924. F. C. Shenehon. Eng N 92:703 Ap 17 '24
Value of technological history. L. St L. Pendred. Power 58:1006 D 18 '23

Management

Construction superintendent's duties and training; an interview with W. A. Rogers. C. S. Hill. Eng N 93:758-9 N 6 '24

Study and teaching

Apprenticeship for civil engineers. Eng N 94: 427 Mr 12 '25
At what are we aiming and with what? F. W. Springer. Eng Educ 14:565-81 Je '24
Engineering teacher. H. S. Boardman. Eng Educ 14:109-11 N '23
The freshmen. C. L. White. bibliog Eng Educ 14:541-54 My '24; Discussion. J Eng Educ 15:291-6 D '24
Minutes of meetings of deans and administrative officers, June 22-23, 1923, at Cornell university; teaching and longer college courses. Eng Educ 14:225-40 Ja '24
Notes and problems for engineering problem courses. W: E. Duckering. 2d ed. 42p McGraw-Hill '24
Problem work in engineering schools. E. Thomas. Eng Educ 14:184-92 D '23
Scientific methods in the training of engineers. H. B. English. J Eng Educ 15:593-7 Ap '25

See also Electric engineering—Study and teaching; Engineering colleges; Engineering education; *also* Thayer school of civil engineering

ENGINEERING—*Continued*

Tables, calculations, etc.

Area, volume and flow. Power 60:382 S 2 '24
Complex quantity slide rule. J. W. M. DuMond. il diags Am Inst E E J 44:133-9 F '25; Discussion. 44:626-8 Je '25
Design of diagrams for engineering formulas and the theory of nomography. L. I. Hewes and H. L. Seward. 112p McGraw-Hill '23
Line charts for engineers. W: N. Rose. 95p Chapman & Hall, ltd., London '23
Nomographic solutions for engineering formulae. H. B. Muckleston. diag Can Eng 47:329-33 S 16 '24
Short-cut calculations. Power 61:962 Je 16 '25
Some pointers on using formulas. B. W. Wheeler. Power 59:571 Ap 8 '24
Straight line engineering diagrams. 109p Manifold & Poole, Los Angeles '24
Table of engineering constants. Power 60: 914 D 2 '24; Same. Paper 35:320 D 11 '24
3700 splay bases and other calculations (Priddle's tables) for contractors and quantity surveyors. A. Priddle. 64p A. Priddle, San Francisco '24

See also Conic sections; *also* subdivision Tables, calculations, etc. under special subjects, e.g. Earthwork; Electric engineering; Hydraulics; Lighting; Steam

California

Historical notes on engineers and engineering activities in California. C. E. Grunsky. Am Soc C E Pro 50:743-54 Ag '24

China

Ancient and modern engineering in China. O. J. Todd. il Eng & Contr (Ry) 62:134-43 Jl 16 '24

Great Britain

Engineering industry. Economist 100:797-9 Ap 25 '25

India

Indian engineering, relating to irrigation, water supply of towns, roads and buildings. W: L. Strange. 214p Routledge '23

Ireland

Engineering profession and industry in Ireland. P. T. White. Elec R (Lond) 96: 959-60 Je 12 '25

Italy

Italian engineering activities. L. Luiggi. Eng N 93:560-1 O 2 '24

Rome (ancient)

Practical engineering in ancient Rome. T: Ashby. Engineering 120:491-3, 527-8, 560-1 O 16-30 '25

Tropics

Advice to engineers going to the tropics. A. M. Shaw. Eng N 93:468-9 S 18 '24

United States

Engineering year in review and prospect. Eng N 94:50-6 Ja 8 '25
Photographic review of 1923 construction progress. Eng N 92:17-24 Ja 3 '24
Progress in construction work during 1924; views. Eng N 94:65-72 Ja 8 '25

ENGINEERING colleges

Attendance at engineering schools. W. C. John. J Eng Educ 15:434 F '25
College entrance requirements for engineering students. Power 62:183, 418, 538, 657, 986 Ag 4, S 15, O 6, 27, D 22 '25
Conference on the relations of the engineering schools and the national engineering societies. W. E. Wickenden. Eng Educ 14:561-4 Je '24
Educating leaders and routine practitioners. C. C. Williams. Eng Educ 14:528-35 My '24
Educational and vocational guidance of engineering students and graduates. H. P. Hammond. J Eng Educ 15:735-50 Je '25
Electrical educational institutions get closer to industry. Elec W 84:311-13 Ag 16 '24
Engineer as a leader in industry. O. S. Lyford. Eng Educ 14:156-83 D '23
Engineering college—its opportunity for service. A. A. Potter. J Eng Educ 16:4-24 S '25
Engineering colleges and public welfare. A. A. Potter. J Eng Educ 15:221-3 D '24
Engineering enrollment has little change. Eng N 92:65 Ja 10 '24
Engineering-student raw material as compared with that of ten years ago. W: T. Magruder. J Eng Educ 15:751-7 Je '25
Enrollment in engineering schools now increasing. Eng N 94:64 Ja 8 '25
Experiment in teaching freshman in engineering how to study. T: P. Harrison. J Eng Educ 15:190-4 N '24
The freshmen. C. L. White. bibliog Eng Educ 14:541-54 My '24; Discussion. J Eng Educ 15:291-6 D '24
Giving advice to seniors. A. A. Potter. J Eng Educ 15:491-2 Mr '25
Minutes of meetings of deans and administrative officers June 22-23, 1923, at Cornell university; teaching and longer college courses. Eng Educ 14:225-40 Ja '24
Preparation, admission, and elimination of engineering students. H. P. Hammond. J Eng Educ 15:498-508 Mr '25; Abstract. Eng & Contr (Bldgs) 63:1135-6 My 27 '25
Protecting the freedom of higher education. A. A. Potter. J Eng Educ 15:409-10 F '25
Recognition of the individual. C. E. Seashore. J Eng Educ 15:111-22 O '24; Discussion. 15:284-91 D '24
Report of progress and plans for future action. W. E. Wickenden. J Eng Educ 15:8-31 S '24
Report of the committee on admissions and eliminations of engineering students, May 1, 1925; summary of data. charts J Eng Educ 16:47-73 S '25

See also Engineering laboratories; Mining schools and education; *also* Cambridge university, England—Engineering school; Colorado. University—College of engineering; Manchester municipal college of technology; Massachusetts institute of technology; Purdue university—Engineering schools; Rensselaer polytechnic institute; Riverside junior college; Thayer school of civil engineering

Costs

Preliminary report on costs of engineering education. J Eng Educ 16:119-28 O '25

Curriculum

Engineering courses for the functional rather than the industrial divisions of engineering. E: Bennett. Eng Educ 14:582-99 Je '24
Engineering problems courses at the University of Washington and at Iowa state college. F. C. Dana. J Eng Educ 15:127-39 O '24
Engineering program at Stanford. Eng & Min J 120:281-2, 460-1, 662-3, 738-9 Ag 22, S 19, O 24, N 7 '25
Fifteen years of experience with a five year engineering curriculum at Northwestern university. W. H. Burger and J: F. Hayford. J Eng Educ 15:512-22; Discussion. 523-8 Mr '25
Five-year courses at the University of Alabama. G: J. Davis, jr. J Eng Educ 15: 214-17 N '24
Length and content of the curriculum. H. J. Hughes and others. J Eng Educ 15:365-400 Ja '25
New departure in engineering education at the University of Pennsylvania. H. Pender. Am Inst E E J 44:1208-10 N '25
Pennsylvania to broaden its engineering courses. Eng & Contr (Ry) 62:424 Ag 20 '24
Problem courses. D. B. Prentice. J Eng Educ 15:123-6 O '24
Sanitary engineering courses of engineering colleges in the United States. I. W. Mendelsohn. J Eng Educ 15:623-34 Ap '25
Stanford university and the six-year engineering course; an interview with Theodore J. Hoover. Eng & Min J 120:564 O 10 '25

ENGINEERING colleges—Curriculum—*Cont.*
Training for activity in non-professional matters. A. A. Potter. J Eng Educ 15:469-72 F '25
What is the meaning of the B.S. degree in engineering? H. S. Evans. J Eng Educ 15: 529-37 Mr '25

Professors and instructors

Opportunities for the young instructor. L: Mitchell. Eng Educ 14:467-70 Ap '24

Shop management

Manufacturing in a college shop. A. V. O'-Brien. il Am Mach 60:295-6 F 21 '24; Discussion. 60:757 My 22 '24

ENGINEERING contracts
Another decision for contractors on engineers' fraud. Eng N 93:107 Jl 17 '24
Contractor wins suit to recover losses due to engineer's misrepresentations; Holbrook, Cabot & Rollins corporation held entitled to rescind contract to build Passaic Valley sewer tunnel. Eng N 93:21-4 Jl 3 '24
Court awards contractor $400,000 for engineer's fraud; James Stewart & co., inc., win heavy damages; falsification of barge canal plans. Eng N 93:24-5 Jl 3 '24
Joint conference on standard construction contracts approves two standard contract forms. Eng N 93:796-7 N 13 '24
Services and fees for practicing engineers. P. Hansen. Prof Eng 9:7-8 Je '24

See also Building contracts; Contracts; Contracts, Letting of; Roads—Contracts; Sewerage—Contracts

ENGINEERING courses. See Engineering colleges—Curriculum

ENGINEERING departments
Analysis of the work and responsibilities of maintenance engineers; with comments by readers. D. H. Braymer. il Ind Eng 82:10-20+ Ja '24
Relation of mechanical engineering to management in the textile industry. E. H. McKitterick. Mech Eng 46:343-4+ Je '24; Excerpts. Textile World 65:87+ Ja 5 '24
Relation of the engineering department to the operating department. F. J. Crolius. Eng Soc W Pa 40:45-52; Discussion. 53-5 Mr '24
Some comments on engineering department organization. P. H. Bryant. Am Mach 63: 233-5 Ag 6 '25

ENGINEERING drawing. See Mechanical drawing

ENGINEERING education
Association of professional engineers of the province of British Columbia annual conference, Vancouver, B.C., Dec. 6. Can Eng 47:609-10 D 16 '24
Carnegie corporation gives $108,000 for investigation by S.P.E.E. of engineering training. Elec W 82:982 N 10 '23
Commercial training needed by the engineer. W. F. Rittman. il Prof Eng 9:13+ N '24
Economics in engineering. H: E. Riggs. W Soc E J 29:273-7 Jl '24
Education and development of men for the industry. P. M. Lincoln. Sibley J 38:114-17 My '24
Education for leadership in industry. W. E. Wickenden. Soc Auto Eng J 16:402-3 Ap '25
Education in English for engineering students. B. Stoughton and M. R. Stoughton. J Eng Educ 15:140-7 O '24
Electrical education in 1924. Elec W 85:1019-20 My 16 '25
Engineer of the future. Chem & Met Eng 29: 916 N 19 '23
Engineering education—for whom? E. H. Fish. Management & Adm 9:431-2 My '25
Engineering education in industry. F. C. French. Am Mach 62:955-6 Je 18 '25
Engineering readings. A. W. Smith. Sibley J 39:247+ Ja '25
Evaluation of the student. O. J. Ferguson. Eng Educ 14:153-5 D '23
Future needs of engineering education. H. Hoover. Power 59:192 Ja 29 '24
General discussion on the present position of technical education. Engineer 139:302-3 Mr 13 '25; Engineering 119:326 Mr 13 '25
Industrial coöperation in engineering education. P. F. Walker. Eng Educ 14:214-17 Ja '24
Investigation of engineering education; summary of reports of committees. Mech Eng 47:687-8 Ag '25
Investigation of engineering education; with reports of director and associate director. J Eng Educ 15:315-33 Ja '25
Investigations on engineering education. W. E. Wickenden. Eng Educ 14:218-23 Ja '24
Land-grant college education, 1910-1920. W. C. John. U S Bur Educ Bul 5:1-75, pl 1-7 '25
Need for improvement in the methods of teaching. Eng N 94:701, 825, 865-6 Ap 23, My 14-21 '25
Notes from the field. W: E. Wickenden. Eng Educ 14:506-13 My '24
Objectives in commercial engineering. G. L. Swiggett. U S Bur Educ Bul 16:1-66 '24
Origin and history of the present study of engineering education by the Society for the promotion of engineering education. C: L. Walker. Sibley J 39:332-3+ My '25
Passing the buck to the high school. D: E. Davis. Power 61:919 Je 9 '25
Praktikantenausbildung. J. Hanner. Zeit Ver Deutsch Ing 68:569-73 My 31 '24
Present trend of engineering education. G. M. Braune. J Eng Educ 15:602-9; Discussion. 609-14 Ap '25
Program of the Board of investigation and coordination. W. E. Wickenden. Eng Educ 14:266-73 F '24
Progress in study of education of engineers. Eng N 95:14-15 Jl 2 '25
Progress in the society's investigation of engineering education. H. P. Hammond. J Eng Educ 15:165-72, 493-7 N '24, Mr '25
Public service aspects of engineering education. P. F. Walker. J Eng Educ 15:32-41 S '24
Relation of education and engineering. H. Sloan. Refrig W 59:25-6 Mr '24
Relation of engineering education to industry. S: A. Lewisohn. J Eng Educ 16:146-57 O '25
Relation of engineering education to industry. F. C. Pratt. Gen Elec R 28:468-71 Jl '25; Same. J Eng Educ 16:134-42 O '25
Relationship of engineering education to the industries. M. W. Alexander. J Eng Educ 15:459-69 F '25
Report of A.I.E.E. educational committee. Am Inst E E J 43:978-9 O '24
Report of the Board of investigation and coördination; remarks of Associate director; Summary of progress. J Eng Educ 16:25-45 S '25
Scholastic training of eminent engineers. R. Walters. Eng Educ 14:536-9 My '24
Schoolmen vs. practicians—looking backward fifty years. R. Fletcher. Eng N 92:668-9 Ap 17 '24
Tabulated recapitulations as a means of education. P. A. Cushman. Eng Educ 14:450-8 Ap '24
Thoughts regarding engineering education. H. M. Mackay. Can Eng 48:257-8 F 24 '25
Training of engineers. Electrician 95:178+ Ag 14 '25
Training of engineers. C. P. Coote-Cummins. Inst E E J 63:13-17 D '24
Training of the engineer of the future. A. P. M. Fleming. Mech Eng 46:445 Ag '24
Value of calculus to the engineer. R. Fleming. Can Eng 46:587-8 Je 3 '24
Why investigate engineering education? A. A. Potter. J Eng Educ 15:311-14 Ja '25

See also Apprentices; Electric engineering—Study and teaching; Engineering—Study and teaching; Engineering colleges; Engineering laboratories; English language—Study and teaching; Gas engineering—Study and teaching; Industrial management—Study and teaching; Industrial service movement; Mechanical drawing—Study and teaching; Mining engineering—Study and

ENGINEERING education—*Continued*
teaching; Mining schools and education; Surveying—Study and teaching; Technical education; *also* Society for the promotion of engineering education

Cooperative plan

Cooperative course in electrical engineering of the Massachusetts institute of technology. W: H. Timbie. Am Inst E E J 44:613-17 Je '25; Discussion. 44:1127-9 O '25
New cooperative options in the engineering courses at New York university. J. W. Roe. J Eng Educ 15:342-7 Ja '25
Spread of cooperative engineering education. A. R. Cullimore. il Mach 31:886-7 Jl '25
Training the future employee through cooperative education; Riverside junior college, Riverside, California. H. H. Bliss. J Elec 52:205-6 Mr 15 '24

China

Engineering education in China. T. E. Mao. J Eng Educ 15:49-53 S '24

France

News letter from Paris. W. E. Wickenden. J Eng Educ 15:574-9 Ap '25

Germany

Engineering education east of the Rhine; Germany, Holland, Czechoslovakia, Austria and German-speaking Switzerland. W. E. Wickenden. J Eng Educ 16:107-18 O '25

Great Britain

Notes on engineering education in Great Britain. W. E. Wickenden. J Eng Educ 15:580-5 Ap '25

ENGINEERING ethics
Advances in engineering ethics. C. E. Drayer. Prof Eng 9:13-15 O '24
American association of engineers minority report. Prof Eng 9:12-13 Ag '24
Civil engineers' board opposes advertising for engineers. Eng N 95:106 Jl 16 '25; Same. Elec W 86:566 S 19 '25
Code of ethics. J: L. Harrington. Mech Eng 46:444-5 Ag '24
Cooperation with engineering schools. D. B. Steinman. Prof Eng 9:7-10 N '24
Engineer and his estimates. D. B. Steinman. Prof Eng 10:8-9 Ja '25
Engineer's ethical problems in structural design. D: C. Coyle. Eng N 94:236-7 F 5 '25
Outlines of lectures on the ethics and professional relations of engineers. D. B. Steinman. Prof Eng 10:11-13 O '25
Problem of professional competition. D. B. Steinman. Prof Eng 10:7-8+ Ap; 9-10 My; 11-12+ Je '25; Same cond. Eng N 94:851-4 My 21 '25; Discussion. 94:946, 1031 Je 4, 18 '25
Report of committee on code of ethics. Refrig Eng 10:445-6 Je '24
Report of the practice committee. D. B. Steinman. Prof Eng 9:13 Je '24
Revision of clause 8, part 1 of specific principles of good professional conduct. Prof Eng 9:9+ D '24
Some ethical cases for consideration. Eng N 95:578-9 O 8 '25
Some relations of engineering education to engineering ethics. T. Saville. Eng Educ 14: 459-66 Ap '24

See also Engineers—Public relations; Professional service

ENGINEERING foundation
Annual report for the year which ended Feb. 14, 1924. Automotive Ind 51:363 Ag 21 '24
Engineering foundation completes first ten years. Mech Eng 47:521 Je '25
Engineering foundation plans huge endowment. Eng N 94:371 F 26 '25
Engineering foundation—ten years. Mech Eng 46:725 N '24
Some work done by Engineering foundation. Boston Soc C E J 11:376-9 O '24
Some work done by Engineering foundation; a brief resumé. Am Inst E E J 43:1095-6 N '24

ENGINEERING handbooks
Handbooks: their use and abuse. E. N. Pike. Arch Forum 40:129-30, 225-6 Mr, My '24; Same (pt. 1). Eng & Contr (Bldgs) 62:713-15 S 24 '24

ENGINEERING institute of Canada
Annual general and professional meeting, 39th, Montreal, Jan. 27-29. Can Eng 48:193-4 F 3 '25
Annual meeting, Montreal and Ottawa, Jan. 22-24. Can Eng 46:191-2, 215-16 Ja 29-F 5 '24

ENGINEERING instruments

See also Aeronautic instruments; Electric instruments; Eötvös balance; Surveying instruments

ENGINEERING laboratories
Building for industrial research and testing work at White motor company. il diag plan Eng N 94:1056-8 Je 25 '25
How the laboratory helps in teaching mechanics at Yale. T: K. A. Hendrick. Eng N 93:550 O 2 '24

See also Aerodynamic laboratories; Electric laboratories; Hydraulic laboratories; Metallurgical laboratories; Testing laboratories; *also* Ford motor company—Engineering laboratory

ENGINEERING law
Chartered engineer. E. J. Mehren. Power 60: 345 Ag 26 '24
Engineers license laws. 136p Am. assn. of eng., 63 E. Adams St., Chicago '22
Report of committee on engineering law. W: B. Douglass. Prof Eng 9:6+ Je '24
Some phases of legal engineering. N. B. Macrostie. Can Eng 48:319-20 Mr 17 '25
Thirteen years of litigation by engineering companies; United States not suable for wrong seizure. Prof Eng 9:26-7 N '24

See also Boilers—Laws and regulations; Building laws and regulations; Engineering contracts; Engineers—Licenses; Plumbing laws and regulations

ENGINEERING libraries
Professional men's libraries. E. Gilbert. Office Economist (Art metal construction co., Jamestown, N.Y.) 6:5-6 O '24
Use of the library by the engineer. D. M. Wood. Special Lib 16:112-17 Ap '25

See also Railroad libraries

ENGINEERING literature
Engineering literature; a critical review of the tendencies in technical literature, with a statement of some of the problems of publication. D. McNicol. Am Inst E E J 43: 131-5 F '24; Discussion. K. L. Hansen. 43: 382 Ap '24
Mathematical versus descriptive articles in technical press. K. L. Hansen. Elec W 83: 481 Mr 8 '24

See also Engineering handbooks; Technical writing

ENGINEERING news-record (periodical)
Few paragraphs about ourselves. Eng N 92: 704-5 Ap 17 '24

ENGINEERING offices
Santa Fé engineering quarters in new office building; layout of engineering department and drafting room. il diags Eng N 95:464-6 S 17 '25

ENGINEERING periodicals

See also Electric engineering—Periodicals

ENGINEERING research
Education, research, and standardisation. J: Dewrance. Engineer 140:240 S 4 '25; Abstract. Engineering 120:297 S 4 '25
Engineering research—an essential factor in engineering education. C. E: Magnusson. Am Inst E E J 44:1243-5 N '25
Engineering research as an aid to good teaching. A. A. Potter. J Eng Educ 15: 571-3 Ap '25; Same. Eng & Contr (W W) 64:1293-4 D 9 '25
Engineering research in concrete and reinforced-concrete. A. N. Talbot. Am Concrete Inst Pro 20:168-74 '24

ENGINEERING research—*Continued*
Our annual waste of research material. J. B. Whitehead. Am Inst E E J 44:140-1 F '25
Relations of research to industry. F. S. Dellenbaugh, jr. Special Lib 16:260-1 O '25
Some impressions of America. J. G. Pearce. Electrician 92:222-3 F 22 '24
The United Engineering Society, 29 W. 39th St., N.Y., publishes monthly leaflets entitled Research narratives

See also Aeronautic research; Automobile research; Electric research; Engineering laboratories; Gas research; Highway research; Industrial research; Laboratories; Lighting research; Scientific research; Steam research

ENGINEERING societies
Conference on the relations of the engineering schools and the national engineering societies. W. E. Wickenden. Eng Educ 14:561-4 Je '24
Directory of electrical associations; printed in the first issue in January and July of Electrical world
Engineering legislation and society activities. Power 59:21-2 Ja 1 '24
Engineering research and society activities. Power 61:25-6 Ja 6 '25
Engineers and their societies in Britain. E. J. Mehren. Eng N 93:380-1 S 4 '24
Fundamental purposes of the society. Mech Eng 46:444 Ag '24
Local chapter of society can incorporate. Eng N 94:1015 Je 18 '25
Professional organizations and professional schools. W. E. Wickenden and A. Dick. J Eng Educ 15:224-44 D '24
Section and chapter development conference of the Illuminating engineering society. Illum Eng Soc 19:945-1019 D '24
Success elements of chapter meetings. A. D. MacMillan. Prof Eng 9:5-6+ Ja '24

See also Aeronautic societies; Railroad associations; *also* names of societies, e.g American society of civil engineers; Association of railway electrical engineers; Engineering institute of Canada; Institution of electrical engineers; National electric light association; Western society of engineers

Proceedings

Papers at technical societies. G. S. Baker. Engineer 140:67 Jl 17 '25

ENGINEERING standards committee, American. See American engineering standards committee

ENGINEERING students
Report of the committee on admissions and eliminations of engineering students, May 1, 1925; summary of data. charts J Eng Educ 16:47-73 S '25
Study of engineering students at time of entrance to college. J Eng Educ 16:74-91 S '25

Rating

Personnel system for a college of engineering; Purdue university. A. A. Potter. Eng N 93:330-1 Ag 28 '24

ENGINEERS
Analyzes opportunities and shortcomings of the engineer. J. L. Harrington. Power 58:937 D 11 '23; Discussion. J. Barraja- Franenfelder. 59:105 Ja 15 '24
Astronomy and the engineer. S. L. Boothroyd. il Sibley J 37:115-16 My '23
Banker and the engineer. H. B. Taylor. Eng & Contr (Ry) 63:587-9 Mr 18 '25
Cooperation between engineers and contractors. O. W. Crowley. Munic & Co Eng 68:129-30 Mr '25
Co-operation between the comptroller and the engineer. Paper Tr J 80:51-4 Ap 23 '25
Courage in engineering. D. H. Maury. Eng & Contr (W W) 64:833-4 O 14 '25
Economics of the engineer's job. F. A. Conrad. Prof Eng 10:14-16 Jl '25
Employment prospects for 1925. H. F. Young. Prof Eng 10:15+ Ja '25
The engineer. J: H. Hammond. New & enl. ed. 218p Scribner '24
The engineer. G: E. Roberts. Stevens Ind 42:84-7 Jl 15 '25
Engineer and the sixty-eighth Congress. Boston Soc C E J 11:49-51 Ja '24
Engineer as a railroad executive. J. Kruttschnitt. Mech Eng 47:313-18 My '25; Same. Am Soc C E Pro 51:1065-81 Ag '25; Abstracts. Ry Age 78:939-41 Ap 11 '25; Management & Adm 9:474 My '25
Engineer; personality, opportunity and the mining engineer. J: A. Garcia. Mo U Sch Mines & Met Bul 17:1-11 Je '25
Engineering employment affected by industrial depression. E. B. Miller. Prof Eng 9:16-17 O '24
Engineering opportunities and viewpoints. L: R. Lee. Power Pl Eng 29:794-5 Ag 1 '25; Discussion. J. O. G. Gibbons. 29:917 S 1 '25
Engineering the element of surprise out of business. H. C. Parmelee. Chem & Met Eng 32:621-2 Jl '25
Engineers and chemists; status and employment in industry. 92p International labour office, Geneva '24
Engineer's output and income. O. H. Kneen. Prof Eng 8:7-8 D '23; Same. Eng & Contr (Bldgs) 61:1403-5 Je 25 '24
Engineer's place in the world. H. Hoover; N. M. Butler. Eng N 92:160-1 Ja 24 '24
Engineer's reading. R. E. Fiske. Sibley J 39:374-6+ O '25
Engineer's responsibility. M. Knowles. bibliog Eng Soc W Pa 40:143-58; Discussion. 159-62 My '24
Good engineering employment for 1924. E. B. Miller. Prof Eng 9:15-16 Ja '24
Little journeys to big men in the interest of engineers; Gen. Otto H. Falk. H. Almert. Prof Eng 10:8+ F '25
Many engineering graduates are needed in industry. Eng N 91:796-8 N 15 '23
Opportunities for college graduates in the technical writing field. A. B. Zerby. Sibley J 39:288-9+ Mr '25
Place of the engineer in modern civilization. G: A. Horne. Refrig W 59:21-2 Je '24
Problems of professional status. Engineer 139:579 My 22 '25
Professional status of the engineer. A. M. Paton. Inst E E J 63:128-32 Ja '25
Professors of engineering and practicing engineers. J. B. Whitehead. Elec W 84:119 Jl 19 '24
Responsibilities and obligations of the technical man. F. H. Alfred. Ry R 76:541-3 Mr 14 '25
Role of the engineer in industrial mobilization planning. E. E. MacMorland. Mech Eng 46:693-5; Discussion. 695-6 N '24
Selling engineering services. R. E. McDonnell. Munic & Co Eng 67:50-1 Jl '24; Same. Prof Eng 9:7+ Ag '24; Same. Eng & Contr (W W) 62:607-8 S 10 '24
Shall he take a chance? the problem of the self-trained engineer. Power 61:559, 840; 62:64, 217-19 Ap 14, My 26, Jl 14, Ag 11 '25
Small versus large plants for the engineering graduate. W. R. Needham. Eng Educ 14:291-6 F '24
Status of the engineer. Engineering 119:673-4 My 29 '25
Status of the engineer. R. F. Pack. N E L A Bul 12:514-15 Ag '25
Technically compensated. G: P. Bowman. Chem Age 32:81-4 F '24
Transportation industry and the engineer. S. P. Bush. Mech Eng 47:1093-5 D '25; Excerpts. Ry Age 79:661-2 O 10 '25; Ry R 77:592-3 O 17 '25
Use of the library by the engineer. D. M. Wood. Special Lib 16:112-17 Ap '25
What an employer expects of an engineer. W. S. Vivian. Prof Eng 9:8-10 Ap '24
What are Penn State engineering graduates doing? Eng N 92:1067 Je 19 '24
What is an engineer? W: V. Fitzgerald. Power 59:528-9 Ap 1 '24
What is an engineer? N. P. Pritchard. Prof Eng 8:17-18 N '23

ENGINEERS—*Continued*
What is an engineer? C. F. Wade. Cassier's Ind Management 12:338-9 Je '25
What is an engineer and how much pay should he receive? D. S. Kimball. Mech Eng 47:516-17 Je '25

See also Chemical engineers; Civil engineers; Consulting engineers; Electric engineers; Engineering education; Engineering ethics; Engineering societies; Industrial engineers; Industrial service movement; Marine engineers; Mechanical engineers; Mining engineers; Professional service; Technical writing; *also* Holland, Clifford Milburn; Melville, George Wallace; *also* Plant engineers' club, Boston

Advertising

Epoch of the engineer; forecasting the time when he will advertise co-operatively. A. Stote. Ptr Ink 131:99-100+ Je 4 '25

Directories

Alphabetical and geographical list of members of American society of refrigerating engineers. Refrig Eng 11:30-47 Jl '24
Society for the promotion of engineering education; list of members. Eng Educ 14:313-427 Mr '24

See also Civil engineers—Directories; Hydraulic engineers—Directories

Fees

Compensation of practising engineers: a critical study. C. L. Bogert. Eng N 92:1103-5 Je 26 '24
Outstanding practice problems of the profession; solicitation of professional engagements, price-competitions for engineering work, and inadequate fees. D. B. Steinman. Eng N 94:851-4 My 21 '25; Excerpts. Prof Eng 10:11-12 Ag '25
Schedule of fees for Canadian engineers. Eng & Contr (R & S) 60:983-5 N 7 '23
Schedule of fees for consulting engineers. Can Eng 46:450-1 Ap 22 '24
Services and fees for practicing engineers. P. Hansen. Prof Eng 9:7-8 Je '24

Licenses

Against licensing. Eng N 92:988, 1072 Je 5, 19 '24
A.A.E. standard registration law for professional engineers. Prof Eng 8:19-22 D '23
Digest of engineer's license laws. chart (supp) Power 60:424 S 9 '24
Engineer licensing. C. C. Hermann. Prof Eng 10:24-5 Ag '25
Engineers' license law. L. N. W. Colin. Prof Eng 10:13-14 My '25
Form of an act of legislation for registration of professional engineers. Am Soc C E Pro 51:[Soc aff]75-83 Mr '25
Progress in engineers licensing; review of the status of registration laws in the several states. C. E. Drayer. Eng N 94:64 Ja 8 '25
What is the matter with engineering? G. M. Butler. Prof Eng 10:10-12+ Ja '25

Public relations

Col. Sprague praises engineers. W Soc E J 28:[current news]217-21 N '23
Economics as applied to engineering projects. C. A. Morse. Munic & Co Eng 68:108-10, 122-3 F-Mr '25
Engineer and civilization. F. Osgood. Am Inst E E J 44:705-7 Jl '25
Engineer and his practical relation to our everyday life. F. Lavis. il Prof Eng 10:6-7 O '25
Engineer as a community asset. J. D. Hoffman. Heat & Ven 22:70 Je '25
Engineer as a public servant. R. P. Baker. Prof Eng 9:7+ O '24
Engineer: his abilities and his public obligations. J: L. Harrington. Mech Eng 46:31-4 Ja '24
Engineer in city activities. A. L. Trout. Mech Eng 46:886 D '24
Engineer in public life. C. E. Grunsky. W Soc E J 29:300-4 Jl '24; Same. Munic & Co Eng 67:97-100 Ag '24
Engineer in the community. P. N. Moore. Eng & Min J 120:28 Jl 4 '25
Engineering and the public service. A. Forward. W Soc E J 30:405-9 S '25
Engineers as leaders in economic matters. Eng & Contr (R & S) 63:1242 Je 3 '25
Engineer's place in society. G. Swope. Gen Elec R 27:420-4 Jl '24
Engineer's responsibility in public relations. B. A. Wollaber. N E L A Bul 11:732-4 D '24
Modern city and the engineer's relation to it. R. Ridgway. Am Soc C E Pro 51:957-68 Ag '25; Excerpts. Mech Eng 47:824 O '25
Place of the engineer in modern civilization. G. A. Horne. Refrig Eng 10:432-3 Je '24
Social challenge to the engineer. G: A. Horne. Refrig Eng 11:200-1+ D '24; Same. Refrig W 59:22-4 D '24

Rating

Questionnaire; personality estimate for engineers. Prof Eng 10:22-3 Ag '25

Salaries

Engineering salaries. E. B. Miller. Prof Eng 9:13 Mr '24; Same. Eng N 92:490 Mr 20 '24
International comparison of engineering wages. Engineering 119:531, 564-5 My 1-8 '25
New York city engineers ask pay increase. Eng N 95:321 Ag 20 '25
Pessimistic view of the engineer's prospects. A. Searles. Power 61:1002 Je 23 '25
Salaries paid in the engineering profession. Engineering 117:280 F 29 '24; Same. Elec R (Lond) 94:313 F 22 '24; Same. Electrician 92:240 F 22 '24; Discussion. Elec R (Lond) 94:413 Mr 14 '24
Status of Ohio engineers in public service. A. Richards. Prof Eng 10:20-1 Mr '25
Steam and operating engineers. Denver. Monthly Labor R 20:1285-6 Je '25
What is the matter with engineering? G. M. Butler. Prof Eng 9:10-12+ D '24

See also Municipal engineers—Salaries

ENGINEERS, Industrial. See Industrial engineers

ENGINEERS as witnesses
Engineer as an expert witness. C: H. Young. Munic Eng 66:93-5 F '24; Same cond. Eng N 92:329 F 21 '24

ENGINEERS public service company
Initial issue of 200,000 shares 7% dividend preferred stock sold. Comm & Fin Chr 120:3313 Je 27 '25

ENGINEERS' reports
Report writing. W. C. Andrea. Sibley J 39:386-7 O '25

See also Gas companies—Engineers' reports; Hydroelectric plants—Engineers' reports

ENGINEERS' rules
Old-time engineer's brass rule. il Power 59: 245 F 12 '24

ENGINES

See also Air engines; Air turbines; Airplane engines; Airship engines; Automobile engines; Blowers; Connecting rods—Manufacture; Crankcases; Crankshafts; Diesel engines; Fire engines; Flywheels; Fuel; Gas and oil engines; Governors (machinery); Locomotives; Marine engines; Pistons; Pumping machinery; Steam engines; Steam turbines; Turbines

Statistics

Engines and waterwheels manufactured in 1923. Power 60:1002 D 16 '24

ENGLAND

See also Architecture—England; Hydroelectric plants—England; Radio stations—England; Roads—England; Transportation—England; *also* Great Britain and subdivision Great Britain under special subjects

ENGLAND—*Continued*

Antiquities

Rome villa at Chedworth. il Sci Am 132:378-9 Je '25

Commerce

See Great Britain—Commerce

Population

Population of England and Wales. Economist 101:258-9 Ag 15 '25

ENGLISH Channel bridges (proposed)

Nouveau projet de jonction par voie ferrée entre Calais et Douvres, par jetées, viaducs et digue en béton armé. L. Faron and H. Faron. diags Génie Civil 84:617-19 Je 28 '24

Projet de traversée du Pas-de-Calais au moyen d'une double jetée formant chenal et de viaducs pour routes et voies ferrées. J. Jaeger. il diags map plan Génie Civil 86: 457-63 My 9 '25

ENGLISH Channel tunnel

Projet de pont sous-marin entre la France et l'Angleterre. diags Génie Civil 86:19-20 Ja 3 '25; Abstract. Engineer 139:245 F 27 '25; Discussion. A. Oates. 139:295 Mr 13 '25

ENGLISH language

Are we making a new language? E: N. Teall. Inland Ptr 75:909 S '25

Artificial respiration won't help the language; proposed Institute of English. E: N. Teall. Inland Ptr 75:62-3 Ap '25

Every day English. F. K. Ball; R. Davis. Special Lib 16:261-3 O '25

For improvement in language. E: N. Teall. Inland Ptr 75:62-3 Ap '25

How printing standardized our language. J. B. Arnold. Inland Ptr 73:878-80 S '24

Some things everybody should know about English. S. R. Hall. Ptr Ink 129:95-6 O 2 '24

See also Commercial correspondence; Compound words; Paragraphs; Spelling reform; Style, Literary; Technical writing; Words

Business English

Actual business English and correspondence. P. H. Deffendall. 267p Macmillan '25; Review, by E: N. Teall. Inland Ptr 75:574-5 Jl '25

Business English. E: N. Teall. Inland Ptr 75:428-9 Je '25

Business writing. S. R. Hall. 222p McGraw-Hill '24

Effective business English as applied to business letters and reports. A. G. Saunders. 603p [bibliog. p. 589-92] Macmillan '25

English and business; report of the commercial education research committee. 109p [bibliog. p. 99-109] Bd. of education, New York city '23

English in business. J: C. French and J: E. Uhler. 311p McGraw-Hill '25

Is business English different from any other kind of English? E. P. Corbett. Ptr Ink 127:169+ My 8 '24

Modern business English. A. C: Babenroth. 466p [bibliog. p. 461] Prentice-Hall '25

Must sales managers learn a new language? G: W. Hopkins. Ptr Ink 129:147-8 D 11 '24

Practical business English. W. L. Mason. 485p Putnam '25

Principles of business writing. T: H. B. Whipple. 182p Westinghouse technical night school press, East Pittsburgh, Pa. '24; Review, by C. N. Hulburt. Chem & Met Eng 31:898 D 8 '24

Style-book of business English. H. W. Hammond and M. J. Herzberg. 8th rev. ed. 250p Pitman '24

Talking so folks will understand. C: R. Wiers. Ptr Ink 126:81-2 Mr 13 '24

See also Advertisements—Copy; Commercial correspondence; Sales letters

Study and teaching

Department of English. J Eng Educ 15:93-6 O '24

Education in English for engineering students. B. Stoughton and M. R. Stoughton. J Eng Educ 15:140-7 O '24

One of the fundamentals. E: D. Kingman. Eng Educ 14:286-90 F '24

Selling English at Iowa state college. A. Starbuck. J Eng Educ 15:334-41, 480-6 Ja-F '25

ENGLISH language for foreigners

Alien: a psycho-economic problem of turnover; requiring immigrants to learn English. M. K. Clark. Nation's Health 6:83-5+ F '24

Department of English. J Eng Educ 15:297-9 D '24

ENGLISH literature

Study and teaching

Engineer's reading. F. E. Fiske. Sibley J 39: 374-6+ O '25

ENGRAVING

American graphic art. F. Weitenkampf. New ed., rev. & enl. 328p Macmillan '24

Process engraving. S. H. Horgan. See monthly numbers of Inland printer

What is engraving from the point of view of the public? the Federal trade commission answers the question. Ptr Ink 126:69-70 Ja 17 '24

See also Color printing; Etching; Lithography; Photoengraving; Rotogravure; Securities—Printing; Wood engravings

ENGRAVING machines

Design of engraving machines. L. Braren. il diags Mach 30:663-8 My '24

Old and new machines meet in this shop. H: C. Francis. il Am Mach 61:680 O 30 '24

ENGRAVINGS

Conservation and restoration

Protection from the tooth of time. A. A. Hopkins. il Sci Am 132:238-9 Ap '25

Printing

How to get the most out of halftones. S. H. Horgan. Inland Ptr 76:226 N '25

See also Photomechanical processes; Securities—Printing

ENOLS

Structure of the enolic forms of β-keto-esters and β-diketones. N. V. Sidgwick. Chem Soc J 127:907-9 Ap '25; Abstract. Soc Chem Ind J (Chem & Ind) 44:333 Mr 27 '25

ENTABLATURES

Entablature in the Basilica of Constantine in Rome. il diag Am Arch 125:17-18 Ja 2 '24

ENTROPY

Entropy and statistical mechanics. E. H. Kennard. Sibley J 38:212-13+ D '24

Entropy of supercooled liquids at the absolute zero. L. Pauling and R: C. Tolman. Am Chem Soc J 47:2148-56 Ag '25

Modified temperature-entropy diagram for a gaseous working substance. G. E. Scholes. Engineering 118:215-16 Ag 15 '24; Abstract. Mech Eng 46:711-12 N '24

One way to dodge entropy. Power 60:704 O 28 '24

Temperature-entropy diagrams for nitrogen and oxygen. W. H. Rodebush, J: W. Andrews and J: B. Taylor. diag Am Chem Soc J 47:313-19 F '25

Third law of thermodynamics and calculation of entropies. T. J. Webb. J Phys Chem 29: 816-33 Jl '25

ENVELOPES

Envelope—another overlooked advertising asset. C. B. Larrabee. il Ptr Ink M 10:27-9 Ap '25

ENVELOPES, Stamped

Government printed envelopes assailed. M. Heir. Inland Ptr 74:749-50 F '25

ENVIRONMENT

Heredity and environment. H. S. Jennings. Sci Am 132:419 Je '25

Introduction to economic geography. W. D. Jones and D. S. Whittlesey. v. 1 375p, 366 il Univ. of Chicago press '25

ENZYMES
Application of enzymes to beet sugar factory control. H. S. Paine and R. T. Balch. Ind & Eng Chem 17:240-6 Mr '25
Chemistry of enzyme actions. K. G: Falk. 2d ed., rev. 249p Chemical catalog co. '24
Influence of tryptophan and other amino acids upon the stability and enzymic activity of pancreatic amylase. H. C. Sherman, M. L. Caldwell and N. M. Naylor. Am Chem Soc J 47:1702-9 Je '25
Living catalysts. Sci Am 131:330 N '24
Mechanism of the action of amino promoters upon enzymes. E. W. Rockwood. Am Chem Soc J 46:1641-5 Jl '24
Observations on the laboratory testing of enzyme bates; abstract. C. E. Pickard. Soc Chem Ind J (Chem & Ind) 43:1158 N 21 '24
Pancreas gland. B: T. Fairchild. Ind & Eng Chem 16:41-7 Ja '24
Rapid analysis of sugars; purification and concentration of enzyme solutions. F. W. Reynolds. diags Ind & Eng Chem 16:169-72 F '24
Le rôle des enzymes dans la coagulation du latex d'hévéa. O. de Vries. bibliog Chimie & Ind 12:449-52 S '24; Abstract. India Rubber W 70:729 Ag '24
Role of enzymes in coagulation. Rubber Age 16:337 F 25 '25
Studies on enzyme action; the spontaneous increase in the activities of lipase and protease of tissue extracts. H. M. Noyes, K. Sugiura and K. G: Falk. Am Chem Soc J 46:1885-9 Ag '24
See also Diastase; Fermentation; Invertase; Leucoplasts; Malt; Rapidase; Urease

EOSIN
See also Fluorescein

EÖTVÖS balance
Eötvös torsion balance. Econ Geol 19:84-6 Ja '24
La prospection souterraine par la balance d'Eötvös. diags Génie Civil 83:648-9 D 29 '23
Searching the interior of the earth's crust. A. Gradenwitz. il Eng & Min J 118:54-6 Jl 12 '24
See also Prospecting

EPIBERBERINE
ψ-epiberberine. J. S. Buck and W: H: Perkin, jr. Chem Soc J 125:1675-86 Ag '24

EPICYCLIC gearing. See Gearing, Epicyclic

EPOREODON
White River (oligocene) eporeodons. M. R. Thorpe. bibliog Am J Sci 5th ser 7:219-26 Mr '24

EQUABLE acceptance company of New York
New company formed to finance foreign trade. Bankers M 109:944-6 N '24

EQUALIZATION funds. See Family allowances

EQUATION of state
Equation of state of argon, neon and hydrogen; report on the work done in Leiden cryogenic laboratory. E. Mathias and C. A. Crommelin. Refrig Eng 12:87-91 [bibliog. p. 91] S '25
Proposed empirical equation of state for fluids. S. Lees. Philos Mag 6th ser 47:431-46 F '24

EQUATIONS, Differential. See Differential equations

EQUATIONS, Roots of
Note on a method of evaluating the complex roots of sixth- and higher-order equations. L: F. Woodruff. Massachusetts Inst of Technology Bul v 60,no 97:1-166 '25

EQUILIBRIUM
Stabilization of instable equilibrium by means of gyroscopic forces. H. J. E. Beth. Philos Mag 6th ser 49:447-50, 1183-90 F, Je '25
Statistical equilibrium with special reference to the mechanism of ionization by electronic impacts. R. H. Fowler. Philos Mag 6th ser 47:257-77 F '24

EQUIPMENT industries
Selection of channels of distribution for accessory equipment. Harvard Business R 3:229-33 Ja '25
See also Advertising—Industries, Appeal to; Automobile accessories industry; Machine tool industry; Railroad supplies industry; *also* subdivision Equipment and supplies under special subjects, e.g. Automobiles—Equipment; Petroleum industry and trade—Equipment and supplies; *also* National supply and machinery distributors' association

EQUIPMENT trusts
Industrial equipment trusts. Index p 11 N '24
New quirk in industrial marketing. Ptr Ink 129:26+ N 20 '24
See also Railroads—Equipment trust

EQUITABLE life assurance society building, New York
Building for Equitable assurance society, Seventh avenue, New York; views and plans. Am Arch 128:pl 191-5 Jl 15 '25
Mechanical equipment of the Equitable life assurance society building. E: E. Ashley, jr. il Am Arch 128:65-70 Jl 15 '25
New home office building of the Equitable life assurance society, New York City. Arch & Bldg 57:40-1, pl 99-102 My '25

EQUITABLE life assurance society of the United States
Completes mutualization. Spectator 115:7 Jl 23 '25

EQUITABLE trust company, New York
Bank shares. P. Gourrich. Annalist 25:613-14 My 4 '25
New bank building planned for New York's financial district. il Bankers M 110:403-8 F '25

ERASERS, Electric
Electric eraser for use in the drafting room. il Ry Mech Eng 98:395 Je '24; Eng N 92:918 My 22 '24

ERIE canal
Linking Hudson with Great Lakes. D. de Kay. il Credit M 26:27-8 My '24

ERIE railroad
Erie locomotive repairs criticized; I.C.C. finds work in contract shops, 1920-1923, greatly exceeded road's own shop costs. Ry Age 77:1171-3 D 27 '24
Report, 29th, 1923. Comm & Fin Chr 118:1793-6 Ap 12 '24
Report, 30th, for the year ended Dec. 31, 1924. Comm & Fin Chr 120:2296-9 My 2 '25
Some things which the Erie railroad is doing; recent extensions of facilities in New York and Chicago. il Ry R 75:423-30 S 20 '24
See also Van Sweringen system

EROSION
Beach erosion: its causes and cure. H. C. Ripley. plan Am Soc C E Pro 50:13-18 Ja '24; Same abr. Eng & Contr (W W) 61: 104-6 Ja 9 '24; Discussion. Am Soc C E Pro 50:529-42, 657-9 Ap-My '24
Effect of Rio Grande storage on river erosion and deposition. L. M. Lawson. il map Eng N 95:372-4 S 3 '25; Discussion. 95:968-9 D 10 '25
Erosion by solution and fill. W. T. Lee. diags maps U S Geol S Bul 760—C:107-21, pl 23-30 '25
Erosion extends relief channel far beyond its bounds. C. E. Ramser. il diag map Eng N 94:391-2 Mr 5 '25
Silicification of erosion surfaces. C. K. Leith. Econ Geol 20:513-23 S '25
Use of sheet steel in preventing erosion. il Eng & Contr (G C) 64:411-14 Ag 19 '25

ERRORS
Sub-committee report on errors—their correction and prevention. Am Gas Assn Accounting sec v 6:326-47 '24

ERRORS, Theory of
Generalized law of error. E. C. Rhodes. Roy Statis Soc J 88:576-80 Jl '25
Generalized law of error. P. R. Rider. Am Statis Assn J 19:217-20 Je '24
See also Probabilities

ESCALATORS
Escalators of the underground railways. il diags Cassier's Ind Management 12:185-7, 288-92 Mr, My '25
Machinery does our lifting. J. D. Horlick. il System 47:530 Ap '25

ESCROWS
Business which was not sought. J: C. Campbell. Am Bankers Assn J 17:501+ F '25
Escrow, grown in California. H. W. Sanders. il Burroughs Clearing House 9:21-2+ S '25

ESCULIN
Fluorescence of æsculin solutions. M. B. Kearney. Philos Mag 6th ser 47:648-56, pl 5 Ap '24

ESPARTO
Constitution of polysaccharides; esparto cellulose. J. C. Irvine and E. L. Hirst. Chem Soc J 125:15-25 Ja '24
Sparto as a paper making material. M. B. Shaw, G: W. Bicking and R. R. Rumsey. il Paper Tr J 81:55-6 S 17 '25

ESPERANTO
Esperanto and Ido. J. D. Sayers. Radio N 6:1179+ Ja '25
Esperanto as world radio language. J. D. Sayers. Wireless Age 12:18-19 Jl '25
Esperanto broadcast lessons. J. D. Sayers. Radio N 7:433+, 607+, 789+ O-D '25
Esperanto or Ilo—which? O. C. Roos. Radio N 6:471+ O '24; Discussion. 6:750+ N '24
Esperanto radio world language. J. D. Sayers. Radio N 6:169+ Ag '24
International radio association seeks to make Esperanto world radio language. Radio N 6:348 S '24
Lessons in esperanto; prepared by James Denson Sayers. Radio N 6:1568+, 1722+, 1899+, 2056+, 2235+; 7:43+ F-Jl '25
Why Radio news favors Esperanto. Radio N 6:937+ D '24

ESSENTIAL oils
Advertising the spice of adventure to the trade. J. H. Collins. Ptr Ink M 11:54+ S '25
Constituents of the essential oil from the gum-oleo-resin of Boswellia serrata, Roxb. O. D. Roberts. Soc Chem Ind J 42:486-8 D 14 '23
Determination of cineol in essential oils. G. Walker. Soc Chem Ind J 42:497-8 D 21 '23
Les essences de Sicile. C. Pellini and V. Morani. Chimie & Ind 12:318-19 Ag '24
Essential oil of the Rimu. F: H: McDowall and H. J: Finlay. Soc Chem Ind J 44:42 Ja 23 '25
Essential oils; market review. Oil Paint & Drug Rep 105:91-2 Mr 20 '24
Getting the most from lemons; the Sicilian citrus byproducts industry. W. V. Cruess. il Chem & Met Eng 32:313-15 F 23 '25
Travancore essential oils; from the resin of canarium strictum, Roxb. (black dammar). K. L. Moudgill. Soc Chem Ind J 44:169-72 Ap 10 '25
Travancore essential oils; oil from the leaves of *calamintha umbrosa*, Benth. K. L. Moudgill. Soc Chem Ind J 43:163-4 My 23 '24
Travancore essential oils; oil from the seeds of *elattaria cardamomum* (cardamoms). K. L. Moudgill. Soc Chem Ind J 43:137-8 My 2 '24
See also Citronella; Peppermint; Perfumery; Phenylethyl alcohol; Piperitone

Prices
Essential oils. Published in weekly numbers of Oil paint and drug reporter
Essential oils; market review. Oil Paint & Drug Rep 107:87-9 Mr 26 '25

ESTATE accounting. See Executors and administrators—Accounting

ESTATES, Decedents'
Number and size of estates in proportion to the number of decedents in Great Britain. Econ W n s 30:168-9 Ag 1 '25

ESTER gums
Laboratory experimental work on ester gum. F. M. Beegle. Ind & Eng Chem 16:953-5 S '24
Manufacture of ester gum on a commercial basis. F. M. Beegle. Ind & Eng Chem 16: 1075-6 O '24

ESTERIFICATION
Esterification equilibria in the gaseous phase. G. Edgar and W: H. Schuyler. diag Am Chem Soc J 46:64-75 Ja '24
Esterification in presence of silica gel. C. H. Milligan, J. T. Chappell and E. E. Reid. J Phys Chem 28:872-8 Ag '24

ESTERS
Additive compounds in the ternary system: ester—acid—water. J. Kendall and C. V: King. Chem Soc J 127:1778-91 Ag '25
Condensation of aldehydes to esters by alkoxides. W. C. Child and H. Adkins. Am Chem Soc J 47:798-807 Mr '25
Condensation of aldehydes to esters by aluminum ethoxide. W. C. Child and H. Adkins. Am Chem Soc J 45:3013-23 D '23
Deaminization of esters of alanine and of amino-*iso*butyric acid. A. L. Barker and G. S. Skinner. Am Chem Soc J 46:403-14 F '24
Isomeric esters of para-ethoxy-benzoylacrylic acid. G. P. Rice. Am Chem Soc J 46:2319-26 O '24
Isomeric esters of para-methoxy-benzoylacrylic acid. G. P. Rice. Am Chem Soc J 46: 214-22 Ja '24
Reaction between metallic sodium and aromatic aldehydes, ketones and esters; esters. F. F. Blicke. Am Chem Soc J 47:229-39 Ja '25
Some condensation reactions involving the elimination of ester groups. B. L. Souther. Am Chem Soc J 46:1301-5 My '24
Stability of additive compounds between esters and acids. J. Kendall and J. E. Booge. Chem Soc J 127:1768-77 Ag '25
Studies in alcoholysis; velocity constants in the alcoholysis of esters of alpha-beta-unsaturated acids and of their corresponding saturated analogs. B. Dasannacharya. Am Chem Soc J 46:1627-40 Jl '24
X-ray investigation of certain organic esters, and other long-chain compounds. G: Shearer. Chem Soc J 123:3152-6 D '23; Abstract. Soc Chem Ind J (Chem & Ind) 42: 1138 N 23 '23

ESTHETICS
Dissertations in æsthetics. F. Marti. Am Inst Arch J 13:391-4 N '25
Taste and typographic art. D. F. Young. Inland Ptr 72:759-60 F '24

ESTHONIA
See also Debts, Public—Esthonia; Housing—Esthonia; Land tenure—Esthonia; Oil shales—Esthonia

Commerce
Trade openings in Finland and Esthonia. Economist 101:655-6 O 24 '25

ESTIMATES
Contractors as the worst figurers in the world and the contract bond situation. R. H. Towner. Econ W n s 29:637-8 My 2 '25
Engineer and his estimates. D. B. Steinman. Prof Eng 10:8-9 Ja '25
Estimating. Engineer 137:244-6 Mr 7 '24
Estimating contract work. D. S. Cole. Ind Management 68:373-6 D '24
Estimating cost of moving dirt. H. G. Worsham. Eng & Contr (G C) 64:427-9 Ag 19 '25
Estimating shop costs for profits. P. L. Dildine. Ind Management 68:119-20 Ag '24
Estimating the cost of jigs and fixtures. W: F. Sandmann. diag Mach 31:427-8 F '25
How to estimate machine shop costs. A. A. Dowd. chart diags Am Mach 60:567-8, 609-11, 685-8, 773-5, 795-7, 883-5, 963-6; 61:55-7, 149-52, 227-30, 299-302, 469-73, 613-15, 695-7, 775-7, 839-42, 997-1000; 62:59-62, 199-202, 273-6, 395-8, 543-5, 617-20 Ap 17-24, My 8, 22-29, Je 12, 26, Jl 10, 24, Ag 7, 21, S 18, O 16, 30, N 13, 27, D 25 '24, Ja 8, 29, F 12, Mr 5, Ap 2, 16 '25
Note on the accuracy of estimates. C. A. Rupp. Eng N 93:1045-6 D 25 '24

ESTIMATES—*Continued*
Preparation of estimates of cost. E. W. Richardson. Eng & Contr (Ry) 61:158-62 Ja 16 '24
Underestimating by engineers. Pub Works 55: 377 D '24; Same. Can Eng 49:522 N 3 '25

See also Building—Estimates; Concrete construction—Estimates; Electric wiring—Estimates; Painting, Industrial—Estimates; Plumbing—Estimates; Quantity system of estimating; Roads—Estimates

ETCHING
Art of etching. E. S. Lumsden. 376p Lippincott '25

Bibliography
On making and collecting etchings. E. H. Hubbard, ed. p 143-60 B. T. Batsford, London; Boni & Liveright, N.Y. '23

ETCHING (metals)
Baynes color process of etching. J: R. Baynes. il Metal Ind 23:248-9 Je '25
Etching. C: H. Proctor. Metal Ind 22:113 Mr '24
Etching cutlery. J. Haas. il diag Metal Ind 23:226-7 Je '25
How metals are etched. Sci Am 131:188 S '24
Some revelations by deep etching. J. F. Harper. il Blast F & Steel Pl 13:150-2 Ap '25
Strain detection in mild steel by special etching. J. D. Jevons. Iron & Steel Inst J 111: 191-204, pl 22-7 no 1 '25; Same cond. Engineering 119:585-7, pl 37-8 My 8 '25; Abstract. Engineer 139:540 My 15 '25; Discussion. Iron & Steel Inst J 111:205-13 no 1 '25; Iron Age 115:1492-3 My 21 '25
Structure of troostite and sorbite; method of etching which develops the actual and complex constituents of carbon steels at high magnifications. O. V. Greene. il Iron Age 114:615-17+ S 11 '24
Technique of examining metals under the microscope. G. Pirk. il Gen Elec R 28:800-8 N '25

Bibliography
Bibliography of etching. Am Soc T M Pro 24 pt 1:738-9 '24

ETCHING, Electrolytic
Prefers electrolytic etching for metals. F. Adcock. il Foundry 53:227-9 Mr 15 '25
Ueber ein verfahren zur entwicklung der Hartmannschen linien (kraftwirkungslinien). P. Oberhoffer and M. Toussaint. il Stahl & Eisen 44:1330-2 O 23 '24

ETCHINGS
Etching as a medium of architectural expression. S: Chamberlain. il Am Arch 128:119-22, pl 212-17 Ag 12 '25
Nine etchings; Celestino-Celestini. Am Inst Arch J 13:132a-h Ap '25
Travesty of architecture by the etcher of today. L. V. Solon. il Arch Rec 54:588-90 D '23

ETHANES
Dissociation into free radicals of substituted dixanthyls; dibenzyl- and dibutyldixanthyl. J. B. Conant and A. W. Sloan. Am Chem Soc J 47:572-80 F '25
Stability of hexa-substituted ethanes. A. E. Gray and C. S. Marvel. Am Chem Soc J 47: 2796-2802 N '25

ETHER (anesthetic). See Ethyl ether

ETHER (of space)
Ether. Am Gas J 120:459-60 My 17 '24
Ether and reality. O. J. Lodge. 179p Doran '25
Ether-drift experiments at Mount Wilson; abstract. D. C. Miller. J Fr Inst 200:259-60 Ag '25; Discussion. 200:627-8 N '25
Maxwell's electromagnetic æther and the Michelson-Morley experiment. A. Press. Philos Mag 6th ser 50:809-12 O '25
Relativity and the ether theory. N. Edwards. Electrician 92:484 Ap 18 '24
Why rigidity and fluidity are merely relative terms. H. P. Gillette. Eng & Contr (Ry) 61: 812-13 Ap 16 '24

ETHERS
Auto-oxidation of ethers. A. M. Clover. Am Chem Soc J 46:419-30 F '24
Investigations on the dependence of rotatory power on chemical constitution; the normal aliphatic ethers of d-γ- nonanol. J. Kenyon and T: W. Barnes. Chem Soc J 125:1395-1400 Je '24
Reactions of strongly electropositive metals with organic substances in liquid ammonia solution; the synthesis of oxygen and sulfur ethers and of alkyl derivatives of ammono acids. G: F. White, A. B. Morrison and E. G. E. Anderson. Am Chem Soc J 46:961-8 Ap '24

ETHICS
Voice of conscience. F. L. Patton. Comm & Fin 14:870-1 sec 2 Ap 29 '25

See also Advertising ethics; Business ethics; Engineering ethics; Professional ethics

ETHNOLOGY
Which races are best? A. A. Hopkins. il Sci Am 132:77-9 F '25; Discussion. 133:50-1 Jl '25

ETHOXYLUTIDINE
Nitro- and amino-ethoxylutidine. J: N. Collie and G. Bishop. Chem Soc J 127:962-4 My '25

ETHYL (steamship)
Another idle ship goes to work; the steamship Ethyl to extract bromine from the sea. il Marine R 55:197 My '25

ETHYL acetate
Additive compounds in the ternary system; ester—acid—water. J. Kendall and C. V: King. Chem Soc J 127:1778-91 Ag '25
Preparation of ethyl acetate and ethyl acetoacetate. K. C: Roberts. Soc Chem Ind J 43:295-7 S 26 '24
Separation and determination of the alkali metals using perchloric acid; normal butyl alcohol and ethyl acetate as mixed solvents in the separation and determination of potassium, sodium and lithium. G. F: Smith and J: F. Ross. Am Chem Soc J 47:1020-6 Ap '25
Study of the mechanism of the catalytic decomposition of ethyl acetate by nickel at various elevated temperatures. J. N. Pearce and C. N. Ott. J Phys Chem 28:1201-10 N '24

ETHYL acetoacetate
Condensation products of ethyl aceto-acetate; a new compound of glyoxal and ethyl aceto-acetate, formylmethylene-bis-aceto-acetic ester. E: S. West. Am Chem Soc J 47:2780-9 N '25
Interaction of ethyl acetoacetate and *o*-hydroxydistyryl ketones. I. M. Heilbron, T: A. Forster and A. B. Whitworth. Chem Soc J 127:2159-67 S '25
Interaction of ethyl acetoacetate with *o*-hydroxystyryl ketones. T: A. Forster and I. M. Heilbron. Chem Soc J 125:340-7 F '24

ETHYL acetylsuccinate
Labile nature of the halogen atom in organic compounds; the halogenation of ethyl acetyl-succinate. A. K. Macbeth and D: Traill. Chem Soc J 127:1118-22 My '25

ETHYL chloride
Rules made for shipping ethyl chloride. Nat Pet N 17:91+ Ja 7 '25
Thermal properties of ethyl chloride. C. J. Jenkin and D. N. Shorthose. (Special report no. 14) diags 35p Gt. Brit. Dept. of sci. and ind. research '23; Abstracts. Refrig Eng 10:313-18 F '24; Refrig W 59:20 Mr '24; Engineering 116:761 D 21 '23

ETHYL cyanoacetate. See Cyanoacetic ester

ETHYL ether
Calorimeter for measuring specific heats and heats of vaporization of liquids; the specific heat and heat of vaporization of liquid ethyl ether at 0° and 12°. F: G. Keyes and J. A. Beattie. diags Am Chem Soc J 46:1753-60 Ag '24
Catalytic dehydration of ethyl alcohol and ether by alumina. R. N. Pease and C. C. Yung. diag Am Chem Soc J 46:390-403 F '24

ETHYL ether—*Continued*
Catalytic preparation of ether from alcohol by means of aluminum oxide. R. H. Clark, W. E. Graham and A. G. Winter. diag Am Chem Soc J 47:2748-54 N '25
Determination of water in mixtures of ether, alcohol, and water. R. K. Newman. diag Soc Chem Ind J 43:285-7 S 5 '24
Ether studies; the quantitative determination of peroxide as a contaminant. A. W. Rowe and E: P. Phelps. Am Chem Soc J 46:2078-85 S '24
More common impurities of anesthetic ether. A. W. Rowe. Ind & Eng Chem 16:896-7 S '24
Position of equilibrium in the alcohol-ether reaction at 130° and 275°. R. N. Pease and Chi Chao Yung. diags Am Chem Soc J 46: 2397-2405 N '24
Preparation of ethyl ether by Williamson's method. W. B. S. Bishop. Soc Chem Ind J 43:23-4 F 1 '24
Pressure-volume-temperature relation for gaseous ethyl ether. J. A. Beattie. diags Am Chem Soc J 46:342-57 F '24
Volumetric method of measurement of the mutual solubility of liquids; the mutual solubility of the systems ethyl ether-water and iso-amyl alcohol-water. I. A. Kablukov and V. T. Malischeva. Am Chem Soc J 47: 1553-61 Je '25

ETHYL ethylidenemalonate
Interaction between ethyl ethylidenemalonate and anilinophenylacetonitrile. L. Higginbotham, A. Lapworth and C: Simpson. Chem Soc J 125:2339-44 N '24

ETHYL gas. See Gasoline—Ethyl mixtures

ETHYL hexylbarbituric acid
Ethyl-normal hexylbarbituric acid and other derivatives of normal-hexylmalonic acid. A. W. Dox. Am Chem Soc J 46:1707-11 Jl '24

ETHYL malonate
Addition of ethyl malonate to anils. E: J. Wayne and J. B. Cohen. Chem Soc J 127: 450-60 F '25

ETHYL tartrate
Rotatory dispersive power of organic compounds; the molecular weight of ethyl tartrate and the origin of anomalous rotatory dispersion in tartaric acid and its derivatives. T: M. Lowry and J: O. Cutter. Chem Soc J 125:1465-70 Jl '24

ETHYLENE
Addition of methyl hypobromite to certain ethylene derivatives. J. B. Conant and E. L. Jackson. Am Chem Soc J 46:1727-30 Jl '24
Catalytic combination of ethylene and hydrogen in the presence of metallic copper; carbon monoxide as a catalyst poison. R. N. Pease and L. Stewart. Am Chem Soc J 47: 1235-40 My '25
Hydrogenation of ethylene in the presence of metallic calcium. R. N. Pease and L. Stewart. Am Chem Soc J 47:2763-6 N '25
Preparation of hexachloroethane by the chlorination of ethylene. G. E. Miller. diag Ind & Eng Chem 17:1182-3 N '25
Studies of electrovalency; the catalytic activation of molecules and the reaction of ethylene and bromine. R. G: W. Norrish. diags Chem Soc J 123:3006-18 N '23
Use of ethylene in the coloring of citrus fruit. E. M. Chace and F. E. Denny. Ind & Eng Chem 16:339-40 Ap '24

ETHYLENE bromide. See Dibromoethane

ETHYLENE chloride. See Dichloroethane

ETHYLENE glycol
Alkyl ethers of ethylene glycol. L. H. Cretcher and W. H. Pittenger. Am Chem Soc J 46: 1503-4 Je '24
Carbonates of ethylene glycol and related compounds. C: F. Allpress and W: Maw. Chem Soc J 125:2259-64 N '24
Ethylene glycol; a contribution of chemistry to the automobile antifreeze problem. G. O. Curme, jr. and C. O. Young. Ind & Eng Chem 17:1117-20 N '25
Ethylene glycol for radiator protection. Bus Transportation 4:452-3 S '25
Ethylene glycol—its properties and uses. H: C. Fuller. Ind & Eng Chem 16:624-6 Je '24

ETHYLIDENE diacetate
Ethylidene diacetate solvent for cellulose esters. Chem Age 32:206 Ap '24

ETHYLIDENE glycerol
Studies on reactions relating to carbohydrates and polysaccharides; relative ease of formation of five- and six-membered heterocyclic carbon-oxygen configurations. H. S. Hill and H. Hibbert. Am Chem Soc J 45:3117-24 D '23

ETHYLPHENETHYL-BARBITURIC acid
Ethylphenethyl-barbituric acid and related derivatives. A. W. Dox. Am Chem Soc J 46:2843-6 D '24

ETTINGSHAUSEN effect
Connections between the four transverse galvanomagnetic and thermomagnetic phenomena. P. W. Bridgman. Phys R 24:644-51 D '24

EUCAINE
Stereoisomerism and local anæsthetic action in the β-eucaine group; resolution of β- and iso-β-eucaine. H. King. Chem Soc J 125:41-57 Ja '24

EUCALYPTUS oil
Californian eucalyptus oil. il Chem & Met Eng 32:684 Ag '25
Eucalyptus oil as a motor fuel. Sci Am 130: 132 F '24
See also Piperitone

EUGENE, Oregon
Engineering in the small city. Eng N 95:472-3 S 17 '25

EUGENICS
Eugenics as viewed by a sociologist. W. S. Thompson. Monthly Labor R 18:227-39 F '24
Genetics applied to man gives basis for eugenic rules. W: S. Sadler. Nation's Health 7:536-8 Ag '25

EULAN
Eulan—a permanent protection against moth damage to textiles. C. O. Clark and J. Craft. Soc Dyers & Col J 41:155-9; Discussion. 159-61 My '25

EUREKA vacuum cleaner company
Retail solicitor—cornerstone of appliance sales. W: G. Keay. Gas Age 56:625-6+ O 24 '25

EUROPE
See also Agriculture—Europe; Automobile industry and trade—Europe; Machine tool industry—Europe; Money—Europe; Railroads—Europe; Street railroads—Europe; Tariff—Europe; Telephone—Europe

Commerce
European trade under the Dawes plan. Index p 9 My '25

Economic conditions
American engineer's experience in Europe. H. M. Lane. Manuf Rec 85:81-2 Je 26 '24
Business bringing hope to Europe. H. C. Estep. il map Iron Tr R 74:74-8 Ja 3 '24
Conditions and prospects in Europe. Published in weekly numbers of Annalist
Economic and financial progress in Europe. 1923-24. J. S. Davis. R Econ Statis 6:205-42 Jl '24
Economic and financial progress in Europe, 1924-25. J. S. Davis. R Econ Statis 7:61-85 Ap '25
Economic conditions in Europe during the first half of 1924. Econ W n s 28:225-7 Ag 16 '24; Same. Fed Res Bul 10:613-18 Ag '24
Economic problems of western Europe. 48p Am. bankers assn., New York '23
Encouraging facts about Europe. J: Moody. Credit M 26:11+ Ja '24
English view of the recovery in Europe. Econ W n s 28:836-8 D 13 '24
European depression persists. V. Delport. map Iron Tr R 77:254-6 Jl 30 '25

EUROPE—Economic conditions—*Continued*
European economic conditions which affect the markets for agricultural products. H. B. Smith. U S Bur For & Dom Com Trade Information Bul 235:1-62 '24
European economic outlook. E. J. Mehren. Boston Soc C E J 11:443-55 D '24
Europe's capitals face the new year anxiously. Annalist 23:9+ Ja '24
Europe's reconstruction progress. F: W: Gehle. il Burroughs Clearing House 9:5-7+ Je '25
Fifteen other countries to-day. H. D. Smith. Am Ind 25:11-12+ Ja '25
General European conditions. Nat City Bank p 18-19 Ja '25
Increasing economic stability of Europe and the principal factors contributing thereto. W. Leaf. Econ W n s 29:332-4 Mr 7 '25
Once over Europe. G: Marples. Comm & Fin 13:381-2 F 20 '24
Our European debtors more prosperous. F. C. Chappell. Annalist 23:581+ My 19 '24
Reconstruction. J. D. Whelpley. 383p Funk & Wagnalls co., New York '25
Skies clearing over European countries. R. Hopkins. Annalist 25:8+ Ja 5 '25
Things abroad. E: Prizer. Am Pet Inst Bul 4:24-31 D 31 '23; Same. Nat Pet N 15:41+ D 12 '23
Turning German paper into gold; present European relation to American industry. A. C. Morrison. Am Ind 24:11-15 F '24
Why Europe is not going to wreck and ruin. M. Greeven. Comm & Fin 14:83-4 Ja 14 '25
World in 1923. Nat City Bank p 6-13 Ja '24; Same. Econ W n s 27:78-83 Ja 19 '24

See also Finance—Europe; Housing—Europe

Politics

Proposed European security pact in place of Geneva peace protocol. Comm & Fin Chr 120:1406-7 Mr 21 '25

EUROPEAN gas company, limited
Annual general meeting, July 8. Gas J (Lond) 167:335-7 Jl 16 '24
History of the European gas company, limited. Gas J (Lond) 166:832-5 Je 18 '24

EUROPEAN war

Casualties

Life and property lost in the war. Am Ind 25: 13-14 Ja '25

Claims

Germany's liability for American claims account of sinking of Lusitania upheld by Mixed claims commission—other claims totaling $345,000,000 dismissed. Comm & Fin Chr 117:2394-5 D 1 '23

Cost

Life and property lost in the war. Am Ind 25: 13-14 Ja '25
La part globale de la France dans les frais de la grande guerre. Génie Civil 83:571-2 D 8 '23

Finance

Inter-ally debts; an analysis of war and post-war public finance, 1914-1923. H. E. Fisk. 369p Bankers trust co., New York '24
War finances in the Netherlands up to 1918. J. Van Der Flier. 150p Oxford '23

Indemnities

See German indemnities

Labor problems

Labour conditions in France during the war. Int Labour R 12:530-4 O '25

Naval operations

Official history of the Great war: naval operations, by J. S. Corbett. Review. Engineer 136:526-7 N 16 '23; Review. Engineering 116: 753 D 14 '23
On patrol; the veteran U.S.S. Corsair of the Suicide flotilla and some of its adventures in the Bay of Biscay during the war. H. F. Breckel. il Wireless Age 12:28-9+ Mr '25

Germany

Reichstag committee clears German army on collapse in 1918. Comm & Fin Chr 121:403, 528 Jl 25-Ag 1 '25

United States

Industrial America embattled. G. B. Clarkson. Am Ind 24:5-9 O; 11-20 N; 11-17+ D '23; 11-16 Ja '24
Movement during war to federalize steel industry. E. H. Gary. Comm & Fin Chr 118: 2659-62 My 31 '24; Same cond. Iron Tr R 74: 1418-19 My 29 '24; Excerpt. Econ W n s 27:764-6 My 31 '24; Criticism. B. M. Baruch. Comm & Fin Chr 118:2662-3 My 31 '24; Same cond. Iron Tr R 74:1448 My 29 '24; Same cond. Iron Age 113:1559-60+ My 29 '24

EURYPTERIDA
Recent publications on the origin and habitat of the eurypterida. R. Ruedemann. Am J Sci 5th ser 7:227-32 Mr '24

EVANS, Oliver, 1755-1819
Famous machinists of history. H. H. Manchester. por Am Mach 61:924 D 11 '24

EVAPORATED milk. See Milk, Condensed

EVAPORATION
La concentration des solutions par compression de la vapeur. diags Génie Civil 84:384-5 Ap 19 '24
Drying process. F. C. Becker, C. J. Janholm and P. E. Raaschon. Chem Age (Lond) 13: 37 Jl 11 '25
Effect of a current of air on the rate of evaporation of water below the boiling point. G. W. Himus and J. W. Hinchley. bibliog il Soc Chem Ind J (Chem & Ind) 43:840-5 Ag 22 '24
Evaporation determined by simple means. A. F. Sheehan. Power Pl Eng 29:812-13 Ag 1 '25
Evaporation from storage reservoir. J. E. Gibson. Eng & Contr (W W) 63:128 Ja 14 '25
Evaporation of water from clean and contaminated surfaces. N. K. Adam. J Phys Chem 29:610-11 My '25
Evaporation rate of some solutions. L. S. Bagster. diag Soc Chem Ind J 43:61-5 Mr 21 '24; Correction 43:284a Ag 29 '24
Evaporative capacity of locomotive boilers. A. P. Poperev. charts Ry Mech Eng 99: 487-92, 548-54 Ag-S '25; Discussion. 99:606, 674-5 O-N '25
Fundamental principles of multiple effect evaporative separation. H. K. Moore. il charts diags Am Inst Chem Eng Trans v 15 pt 2:233-301 '23; Excerpts. Chem & Met Eng 29:1102-5, 1144-7, 1190-2 D 17-31 '23; Same (pt.1). Paper 33:6-9 Ja 3 '24; Discussion. Am Inst Chem Eng Trans v 15 pt 2:301-7 '23
Influence of thin surface films on the evaporation of water. G. Hedestrand. diag J Phys Chem 28:1245-52 D '24
Kinetic theory of evaporation; abstracts. D. B. Macleod. J Fr Inst 200:499-500 O '25; Mech Eng 47:937-8 N '25
Les procédés évaporatoires par compression de vapeur, système Prache et Bouillon. C: Prache. Génie Civil 86:219-20 F 28 '25
Rate of evaporation of liquids in a current of air. T. B. Hine. Phys R 24:79-91 Jl '24
Some control formulae in leaching and evaporating. F. G. Donnan. Soc Chem Ind J 42: 440-2 N 16 '23
Temperatures of evaporation of water into air. W. H. Carrier and D. C. Lindsay. il diags Refrig Eng 11:241-57 Ja '25; Same abr. Mech Eng 47:327-31 My '25; Discussion. Refrig Eng 11:257+ Ja '25
Theory of evaporation with special reference to the effect of air velocity and of moisture diffusion. A. E. Stacey, jr. Am Cer Soc J 8:457-61 Jl '25

See also Crystallization; Distillation; Drying; Drying apparatus; Vaporization

Bibliography

Literature on evaporation. W. L. McCabe. Chem & Met Eng 32:579 Je '25

EVAPORATION—*Continued*

Costs

Economic study of evaporators. T. Fuwa. Chem & Met Eng 31:185-8 Ag 4 '24

EVAPORATION, Heat of

Theory of molecular interaction in the liquid state. G. N. Antonoff. Philos Mag 6th ser 50:265-89 Jl '25

EVAPORATORS

Adapting evaporators to heat balance. E. H. Chapin. diags Power Pl Eng 28:534-6, 588-91 My 15-Je 1 '24

Calculation of vapor recompression evaporators. L. A. Pridgeon. diag Am Inst Chem Eng Trans v 15 pt 1:231-40 '23

Case for the multiple effect evaporator in the pulp mill. H. Austin. il Chem & Met Eng 29:974-5 N 26 '23

Designing an efficient evaporator. H. K. Moore. il chart diags Chem & Met Eng 30: 274-8 F 18 '24

Distilled feed water helps boiler equipment. G: H. Gibson. il diags Power Pl Eng 29:531-3 My 15 '25

Economic study of evaporators. T. Fuwa. Chem & Met Eng 31:185-8 Ag 4 '24

Economical use of evaporators on shipboard. L. B. Chapman. diag Marine Eng 30:216-19 Ap '25

Effects of surface film on heat transfer; abstract. W. L. Badger. Chem & Met Eng 30: 1029 Je 30 '24

Evaporating and drying plant. S. G. Ure. il diags Soc Chem Ind J (Chem & Ind) 43:294-303 Mr 21 '24

Evaporating systems. W. F. Davis. Refrig W 59:23-4 Ja '24; Same. Power 58:1028-9 D 25 '23; Abstract. Power Pl Eng 28:250-1 F 15 '24

Evaporator in a small power plant. A. G. Christie. diag Power 61:458-9 Mr 24 '25

Evaporator problems met in the paper pulp industry. G: K. Spence. Chem & Met Eng 29:972-3 N 26 '23

Evaporator scale formation. W. L. McCabe and C. S. Robinson. Ind & Eng Chem 16: 478-9 My '24

Evaporators furnish distilled make-up water. il diags Power Pl Eng 28:485-8 My 1 '24

Film evaporator. diag Chem & Met Eng 31: 632 O 20 '24

Fitting evaporators to the heat balance. R. D. Spear. diags Power Pl Eng 29:480-1 My 1 '25

Heat transfer in evaporators; symposium. Chem & Met Eng 30:663-5 Ap 28 '24

Heat transfer in steam-jacketed evaporators. H. L. Olin, M. H. Dowell and C. M. Toynbee. diags Am Inst Chem Eng Trans v 16 pt 1:87-99 '24; Same. Chem & Met Eng 31: 116-19 Jl 21 '24

Heat transmission in an inclined rapid circulation type vacuum evaporator. D. J. Van Marle. diag Ind & Eng Chem 16:458-9 My '24; Abstracts. Chem & Met Eng 30:663-4 Ap 28 '24; Mech Eng 46:349-50 Je '24

Heat transmission in jacketed kettles; a comparative study of over-all coefficients of heat transmission in cast-iron, lead-lined and copper steam-jacketed kettles. H. L. Olin, B. S. Southwick and H. M. Prince. il Chem & Met Eng 32:370-2 Mr '25

Heating an evaporator with the exhaust from condensing engines. F. H. Nickle. diag Chem & Met Eng 31:226-8 Ag 11 '24

Promoting evaporator economy. T. A. Solberg. Marine Eng 30:527-8 S '25

Studies in evaporator design; effect of surface conditions. L. A. Pridgeon and W. L. Badger. Ind & Eng Chem 16:474-8 My '24; Abstract. Chem & Met Eng 30:664-5 Ap 28 '24

Vacuum evaporator and drum drier combined. diags Chem & Met Eng 31:747-8 N 10 '24

Vapor recompression systems for evaporators. W. L. Badger. il diags Am Inst Chem Eng Trans v 14:221-50; Bibliography. 250-5; Discussion. 255-8 '21-'22

EVAPORIMETER

Determining the fire hazards in a forest by the evaporimeter. il Sci Am 130:329 My '24

EVENING and continuation schools

Day schools for young workers. F. J. Keller. 577p [bibliog. p. 433-63] Century co. '24

Effect of continuation classes on mill personnel. J: Crompton. Textile Inst J 16:P300-5 O '25

See also Corporation schools

EVERBRITE metal

Everbrite metal. Power 60:511 S 23 '24

EVEREST, Mount

Assault on Mount Everest. il Sci Am 131:100 Ag '24

EVERETT, Washington

Rapid transit

Everett results disappointing; $14,780 deficit in 1923. Elec Ry J 63:555 Ap 5 '24

Five-cent fare fails in Everett. Bus Transportation 3:196 Ap '24

EVERGLADES

Building a motor road across the Florida Everglades. F. E. Lawrence and R. Y. Patterson. il plan map Eng N 93:412^{a}17 S 11 '24

Commercial rubber production in the Everglades. Rubber Age 15:96 My 10 '24

Reclaiming Florida Everglades. H. M. Wright. il Forbes 14:611-12 Ag 15 '24

EVERSHARP pencils

Eversharp's foreign advertising policy. Ptr Ink 125:115-16+ D 13 '23

Marketing a new model in face of strong dealer opposition; perfected Eversharp. A. G. Frost. Ptr Ink 128:3-4+ Jl 17 '24

EVIDENCE

Accountant and the law. J. H. Covington. J Account 40:267-75 O '25

See also Witnesses

EVOLUTION

Engineering ability of nature. H. P. Gillette. Eng & Contr (W W) 61:549-55 Mr 12 '24

Evolution, from the nebula to 1925. A. G. Ingalls. chart Sci Am 133:234-5 O '25

Methods of evolution. J. E. Duerden. Sci Am 131:325 N '24

See also Heredity; Man—Origin and antiquity

EVOLUTION controversy

Bill prohibiting teaching of evolution becomes law in Tennessee—Governor Peay declares theory in utter variance with Bible. Comm & Fin Chr 120:1694 Ap 4 '25

Is Mr Bryan ignorant of evolution? Sci Am 132:333+ My '25

Prof. John T. Scopes found guilty of violating Tennessee law. Comm & Fin Chr 121: 539-41 Ag 1 '25

Prof. John T. Scopes indicted on charge of teaching evolution in violation of Tennessee law. Comm & Fin Chr 120:2893-4 Je 6 '25

EXAMINATIONS

Iowa placement examinations. G: D. Stoddard. J Eng Educ 16:158-63 O '25

Oral examinations. C: H. Chase. J Eng Educ 15:765-6 Je '25

Written test. G: W. Munro. J Eng Educ 15: 767-70 Je '25

See also College entrance examinations

EXCAVATING machinery

Bucyrus ¾ yd. Diesel engine shovel and dragline. il Eng & Contr (Ry) 61:423 F 20 '24; Génie Civil 84:277-8 Mr 22 '24

Dragline operation on canal. diags Eng & Contr (G C) 64:671 S 16 '25

Draglines as trench diggers. il Eng & Contr (W W) 63:113-15 Ja 14 '25

Economic study of dragline excavator operation. C. W. Ullom. Eng N 92:932-4, 976-9 My 29-Je 5 '24

Electrically-operated navvy for the Morwell power scheme. Engineering 118:292, 299 Ag 29 '24

EXCAVATING machinery—*Continued*
Employment of surplus war equipment in the construction of the Bronx river parkway. G. D. Clarke. il Sibley J 38:64-6+ Mr '24
Die erdbewegung und ihre maschinen. il diags Zeit Ver Deutsch Ing 68:690-8 Jl 5 '24
Étude économique sur les excavateurs-dragline. A. Antoine and A. Libault. il diag Génie Civil 85:113-16 Ag 2 '24
Excavateur dragline de 250 tonnes, système Ruston et Hornsby. il diags Génie Civil 84: 128-30 F 9 '24
Excavating machines run by oil engines. il Manuf Rec 86:99 O 9 '24
Kabelbagger. K. Zapf. il diags Zeit Ver Deutsch Ing 69:938-9 Jl 11 '25
1925 model Insley excavator. il Eng & Contr (Equip R) 63:911 Ap 29 '25
Northwest trench pull shovel. il diag Engineering 117:519-20 Ap 25 '24
P & H excavator. il Eng & Contr (G C) 63: 1357-8 Je 17 '25
Petrol-driven convertible excavator. il diags Engineering 119:146-8 Ja 30 '25
Power consumption of dragline excavators. Eng & Contr (G C) 64:920 O 21 '25
Revolving steam navvy. il Engineer 138:621 N 28 '24
200-ton dragline excavator for the Sudan. Engineering 117:636, pl 62 My 16 '24
250-ton dragline excavator. il diags Engineering 116:763-5, 776, 795-7, pl 43-5 D 21-28 '23
Use of dragline in track work. Eng & Contr (Ry) 62:150-2 Jl 16 '24

See also Buckets; Dredges; Electric shovels; Mining machinery; Road making machinery; Rock drills; Scrapers; Shale planers; Shoveling machines; Steam shovels; Trenching machinery

Failure

Failure and re-design of boom. S. E. Berkenblit. diags Eng N 93:73 Jl 10 '24

Repair

Keeping the pit equipment in shape. B. Van Brunt. il Brick & Clay Rec 65:546+ O 14 '24

Standards

Standardization of mining excavating equipment. H. T. Gracely. il Min Cong J 10:485-6 O '24

EXCAVATION
Building a cliff road to the Bear Mountain bridge. J: M. Belknap. il Eng N 93:736-8 N 6 '24
Caring for earth from large excavations without hauling it away from the job. J. S. Parker. il diag Gas Age 55:152 Ja 31 '25
Characteristics of quicksand and other soils met in ordinary excavation. C: R. Gow. Boston Soc C E J 11:53-69 F '24; Excerpt. Eng & Contr (W W) 61:596-8 Mr 12 '24; Abstract. Pub Works 55:350-2 N '24; Discussion. Boston Soc C E J 11:69-79 F '24
Economical handling of raw materials in building unit manufacture. diags Concrete 25:13-18 Jl '24
Excavating Brooklyn sewer. il Pub Works 56: 26-7 Ja '25
Swamp road building among the Indiana sand dunes. H. M. Herald. il plan Eng N 92: 58-60 Ja 10 '24
Trench excavators build road grade across lake of mud from Salt Lake City to Nevada state line. il diag Eng N 94:686-9 Ap 23 '25
Value of 1923 excavation contracts highest in six years. charts Eng N 92:426 Mr 6 '24
Wendover cutoff in Utah. H. C. Means. il Eng & Contr (R & S) 64:297-305 Ag 5 '25

See also Blasting; Ditches; Dredging; Earthwork; Excavating machinery; Shaft sinking; Steam shovels; Street openings; Subways—Construction; Tunnels and tunneling

Cost

Cost data and experiences with ditching machines. F. H. Shaw. Gas Age 55:797-8 Je 6 '25; Same. Munic & Co Eng 69:17-19 Jl '25; Same cond. Pub Works 56:331 S '25
Economic study of dragline excavator operation. C. W. Ullom. Eng N 92:932-4, 976-9 My 29-Je 5 '24
Effect of haul on the cost of earthwork. J. L. Harrison. Pub Roads 5:14-17 S '24; Same. Eng & Contr (R & S) 62:1003-8 N 5 '24; Same. Good Roads 47:137-9+ N '24
Rapid low-cost excavation of drain ditches. A. W. Walker. il charts Eng N 93:426-8 S 11 '24

Safety devices and measures

Safety in building construction; caisson excavation under air pressure for building foundations. W. E. Welch. il Safety Eng 47: 26-31 Ja '24

Tables, calculations, etc.

Hydraulic and excavation tables. 5th ed., rev. and enl. 168p U.S. Bur. of reclamation, Washington, D.C. '25

EXCAVATION, Subaqueous
Blasting out the channel through the Detroit river. F. J. Byrne. il Munic & Co Eng 69: 23-4 Jl '25
Removing submarine rock with jack hammers. W. L. Kuehnle. chart diag Eng & Contr (W W) 60:1035-7 N 14 '23

See also Bridges—Foundations and piers

EXCESS condemnation. See Eminent domain

EXCESS profits tax
Incidence of business-profits taxes. G: V. Kracht. J Account 38:241-53 O '24; Same. Paper Tr J 79:51-4 O 23 '24
Let the excess profits tax sleep. M. Rindler. Annalist 22:727-8+ D 3 '23
Special relief sections of the Federal tax acts. J. A. Smith. Paper Tr J 77:55-8+ N 22 '23

See also Corporations—Taxation

EXCHANGE
Outline of exchange procedure. F. L. Beach. Burroughs Clearing House 9:12-14+ O '24

EXCHANGE, Foreign. See Foreign exchange

EXCHANGES. See Coal exchanges; Cotton exchanges; New York cotton exchange; New York stock exchange

EXCITATION equipment. See Electric generators, Alternating current—Excitation; Electric motors, Induction—Excitation

EXCLUSIVE agencies
The exclusive agency; a study in the marketing of manufactured products. 64p New York univ., Bur. of business research, New York '23
Give me the exclusive agency. C. E. Behr. Ptr Ink 129:25-6+ D 11 '24
How established retailers feel about exclusive agencies. J. True. Ptr Ink 128:73-4+ S 4 '24
Is the exclusive jobber system a load on advertising? Ptr Ink 128:73-4 Ag 14 '24
Question of exclusive tire sales territory. H. P. Wilkin. India Rubber W 70:649-50 Jl '24
Salesmen who jump over territorial boundaries. R. Crothers. Ptr Ink 132:41-2+ Jl 2 '25
Some factors in agency negotiations. A. J. Smith. Elec R (Lond) 94:644-5 Ap 25 '24; Discussion. 94:1027 Je 20 '24
Successful distribution through exclusive wholesalers. Harvard Business R 3:112-15 O '24
Use of exclusive retail agencies. Harvard Business R 3:485-97 Jl '25
When shall we use the exclusive agency? System 47:302-5+ Mr '25
When the dealer wants exclusive agency. R. A. Barbour. Ptr Ink 128:17-20 Ag 28 '24

EXECUTIVE ability
Putting it across. W: H. Leach. 128p Cokesbury press, Nashville, Tenn. '25

See also Efficiency, Industrial

EXECUTIVE committees. See Committees (in management)

EXECUTIVE control
Control chart for the chief executive. W. Clark. Iron Age 115:829-31 Mr 19 '25; Same. Taylor Soc Bul 10:105-10 Ap '25
Technique of executive control. E. H. Schell. 133p McGraw-Hill '24
Ways in which 78 industrial concerns use cost data for executive control. Ind Management 68:218-20 O '24

See also Committees (in management)

EXECUTIVES
"B.B." makes a manager; story. S. Wills. il System 46:54-7+ Jl '24
Comprehensive plan for executives' clubs. S. van T. Jester. Ry Mech Eng 98:79-80 F '24
Deserving a manufacturing profit. B. A. Franklin. Management & Adm 9:329-32 Ap '25
Duty of the chief executive in a well-organized business concern. J. P. Jordan. Annalist 26: 212 Ag 21 '25
Efficient executive. W: Davenport. Am Mach 63:309-10 Ag 20 '25
Engineer as a leader in industry. O. S. Lyford. Eng Educ 14:156-83 D '23
The executive. C. Dreher. Automotive Ind 52:666-7 Ap 9 '25
Executive problems and policies for 1925. Ind Management 69:33-8 Ja '25
Executive's most important job; a symposium. System 45:339-41+ Mr '24
Executives—openly arrived at. D. MacGregor. il Nation's Business 13:30-1 O '25
Function of directing. J. F. Marsden. Cassier's Ind Management 12:160-1 F '25
General Motors has plan to hold its key men. Ptr Ink 125:33-4+ N 15 '23
Goddess of the reception room. E. C. McAnley. Sales Management 7:1872+ D '24
Handling exceptions. C: Piez. Blast F & Steel Pl 13:159-60+ Ap '25; Same. Gas Age 55:483-4 Ap 4 '25
High cost of vice-presidents—and causes thereof. J: Oakwood. Forbes 13:442-4+ Ja 19 '24
How five executives manage to save their time. System 46:293 S '24
How I manage my desk hours. T: J. Watson. il System 45:49 Ja '24
How to budget your greatest asset—personality. A. S. Banks. Forbes 15:19-20 O 1 '24
How to get more into the working day. System 46:595-7+ N '24
How 22 executives tackle their business problems. System 47:747-50+ Je '25
In conference. W: E. Hyde. Ptg Art 43:146-8 Ap '24
Industrial executive. B. A. Franklin. il Management & Adm 8:249-52 S '24; Same. Paper Tr J 79:53-5 S 25 '24
Like clockwork—a plan of scheduling my work. W: H. Britigan. il System 47:305-7+ Mr '25
Magnetize your business to attract profit-making executives. Ptr Ink 127:3-4+ Ap 17 '24
Mistakes that executives make. C. E. Knoeppel. Ind Management 68:377-82 D '24
Modern executive. D. Bloomfield. 266p H: W. Wilson co. '24
My test of management—handling exceptions. C: Piez. System 47:37-8 Ja '25; Same. Chem Rec Age 23:10-11 Mr 23 '25
Organization for successful operation; work of the industrial executive. B. A. Franklin. Management & Adm 8:513-16 N '24; Same. Paper Tr J 79:51-3 N 13 '24
Out to lunch. J. H. Collins. Ptr Ink 127:3-4+ My 8 '24
Personal research as an aid to planning. Ind Management 67:161-2 Mr '24
Picking of managers. J. T. Broderick. Gen Elec R 28:178-82 Mr '25
Policies for successful operation; work of the industrial executive. B. A. Franklin. Management & Adm 8:391-4 O '24; Same. Paper Tr J 79:53-6 D 11 '24
Practical points on labor policy. B. A. Franklin. Management & Adm 8:611-14 D '24
Profit-making factory equipment; work of the industrial executive. B. A. Franklin. Management & Adm 9:149-52 F '25
Profit-making management in the factory. B. A. Franklin. Management & Adm 9:21-6 Ja '25
Profit-making possibilities in seeing marketing essentials. B. A. Franklin. Management & Adm 9:245-8 Mr '25
Qualities demanded of the big executive of tomorrow. Forbes 15:676 Mr 1 '25
Receiver speaks his mind concerning the windy-willies of business. J: P. Wilder. Sales Management 6:695-6+ Mr '24
Samuel Insull gives pointers on picking winners. J. Brooks. Forbes 15:771-2 Mr 15 '25
Sound health and the swivel chair. R. E. Sunderland. Ind Management 67:138-9 Mr '24
Striking a balance. W. E. Irish. Ind Management 69:78-82 F '25
Suiting the desk to the job. H. Coonley. il System 45:626 My '24
Three factors vital in hiring an executive. W: L. Fletcher. System 46:712+ D '24
Treadmill type of management. H. D. Arthurs. Ptr Ink 132:109-10+ S 17 '25
Unity of management. W. E. Hotchkiss. Management & Adm 8:173-5 Ag '24; Same. Paper Tr J 79:55-6 S 11 '24
Up to his neck in nothing. J. H. Collins. Ptr Ink 132:3-4+ Jl 9 '25
What details should an executive handle? V. C. Stanley. il System 48:172-5+ Ag '25
What's the connection between a clean desk and good management? E. Wolff. Ptr Ink 126:17-19 F 21 '24
Where my job as an executive ends. W. L. Batt. Factory 32:151-3 F '24
Why I can do six days' work in four. T: H. Thropp. System 48:43+ Jl '25
Working habits that shorten the manager's day. System 45:778-80 Je '24
Yes-men and no-men. F. Saunders. Ind Management 66:334-5 D '23

See also Business conferences; Business management; Efficiency, Industrial; Employment management; Executive control; Factory management; Foremen; Industrial management; Leadership; Office management

Rating

Plan that keeps executives on their toes. A. J. Beatty. System 47:459-60 Ap '25

Salaries

Million-dollar-a-year managers; capitalistic evolution under way. Forbes 15:532 F 1 '25
Salaries for executives. W: W. Lawrence. Am Mach 62:276 F 12 '25

Training

How we train executives. Factory 34:642 Ap '25
Training men to make maximum profits. Ptr Ink 126:3-4+ Mr 6 '24

EXECUTORS and administrators
Life insurance as a means of providing the executor of an estate with needed cash. E: A. Woods. Econ W n s 28:600-1 O 25 '24
Visualizing the functions of a trust company. Bankers M 110:1042-5 Je '25

Accounting

Estate accounting. H. D. Greeley. 110p Ronald press '24
Estate accounts. S: F: Racine. 191p Western institute of account., comm. & fin., Seattle '23
Methods of teaching estate accounting and taxation. H. D. Greeley. J Account 38:196-202 S '24

EXERCISE
Muscular exercise considered in its relations to health. H. E. Stewart. il Nation's Health 6:179-80+ Mr '24

See also Muscles

EXHAUST steam
Die abwärmeverwertung in orts- und fernheizwerken. C: Eberle. il diags maps plans Zeit Ver Deutsch Ing 69:376-81 Mr 21 '25
Canning company makes power economically. R. W. Richardson. il diag plan Power Pl Eng 29:907-10 S 1 '25
Combining the heating system with small power and lighting plants. C: L. Hubbard. il plan Sanitary & Heat Eng 103:249-50 Ap 17 '25
Cost of byproduct power. Power 60:422 S 9 '24
Determining the vacuum correction curves for turbine units. L. J. Levit. chart Power 62: 200-3 Ag 11 '25
Economical use of exhaust steam. A. F. Sheehan. Power Pl Eng 29:1048-9 O 15 '25; Discussion. 29:1157 N 15 '25
Economy secured by heating feed water. C. E. Colborn. Power Pl Eng 28:946-7 S 15 '24
Electric power as a byproduct of process steam generation. T. Maynz. Chem & Met Eng 32:5-9 Ja 5 '25
Exhaust steam condensed in open feedwater heaters. L. G. Jones. chart Power 61:951 Je 16 '25
Exhaust-steam uses and abuses. E. Douglas. Power 61:144 Ja 27 '25
Extraction engines for industrial power plants. F. Johnstone-Taylor. diags Power Pl Eng 29:525-8 My 15 '25
Finding the cost of exhaust as compared to live steam. C. E. Colburn. Power 59:759-60 My 13 '24
Gegenwärtiger stand der abdampftechnik und abdampfwirtschaft in Deutschland. H. Treitel. diags Zeit Ver Deutsch Ing 68:896-901 Ag 30 '24
German exhaust-steam practice. H. Treitel. Textile World 66:3305+ D 6 '24; Same cond. Power 60:434 S 9 '24
Heating an evaporator with the exhaust from condensing engines. F. H. Nickle. diag Chem & Met Eng 31:226-8 Ag 11 '24
Heating and power requirements of office buildings. F. F. McCammon. Elec W 83:681 Ap 5 '24
Heating by exhaust steam. il diag Engineering 119:287-8 Mr 6 '25
Heating water with exhaust steam. W. H. Wakeman. diags Power 60:658 O 21 '24
How shall we calculate the cost of exhaust steam? T. Fuwa. Chem & Met Eng 31:150 Jl 28 '24; Discussion. 31:355 S 1 '24
Manufacturer has his own superpower system. diags Power 61:261-2 F 17 '25
Methods of obtaining a heat balance. diags Power Pl Eng 29:694-5, 737-9 Jl 1, 15 '25
Mode d'emploi de la vapeur d'échappement pour le chauffage. M. Miet. diags Génie Civil 83:646-7 D 29 '23
Oil and grease extraction from exhaust steam. Power Pl Eng 29:405, 558 Ap 1, My 15 '25
Power and heating for the small manufacturing plant. D: M. Myers. diag Power 62:524-6 O 6 '25
Power and heating load supplied by non-condensing and condensing turbines. A. Iddles. il diags Power 62:314-17 S 1 '25
Problems in the utilization of exhaust steam. C: L. Hubbard. diags Power 61:568-70, 685-7 Ap 14, My 5 '25
Proportioning electric power to exhaust steam required. H: R. Gould. Power Pl Eng 27: 1223-4 D 15 '23
Quality of bled steam. Power 60:493 S 23 '24
Quality of exhaust steam. Power 59:878 My 27 '24
Reciprocal utilisation of waste energy. B. M. Gerbel. Engineering 118:75-6 Jl 11 '24
Relative merits of stage feed water heating and auxiliary exhaust heating as employed in central stations. Power Pl Eng 28:149-52 Ja 15 '24
Die rheinische braunkohle; neue dampfwirtschaft in brikettfabriken. Grunewald. il diags Zeit Ver Deutsch Ing 69:1005-12 Ag 1 '25
Simple air conditioning device uses exhaust steam. W. J. Risley, jr. il diag Chem & Met Eng 32:707-8 Ag '25
Some points regarding heat, power and by-product power. W. G. Diman. Power 62:300-1 Ag 25 '25
Steam—economy of generation and utilization. C. A. Schlegel. diags Gas Age 55: 333-6 Mr 7 '25
Steam regeneration: its possibilities. C. O. Towler. diags Engineer 139:592-3 My 29 '25; Same cond. Power 62:114 Jl 21 '25
Study of steam power plant cycles; abstracts. C. F. Hirshfeld and F. O. Ellenwood. Power Pl Eng 27:1244-8 D 15 '23; Power 58:893-5 D 4 '23
Taking the loop out of the diagram. J. Stewart. diag Power 61:798 My 19 '25
200 k.w. steam-extraction generator set. il diags Engineer 139:630-2 Je 5 '25
Using indirect radiation to heat combustion air. Power 60:955, 1073-4; 61:151 D 9, 30 '24, Ja 27 '25
Utilization of exhaust steam. Power Pl Eng 27:1105; 28:157, 451, 668 N 1 '23, Ja 15, Ap 15, Je 15 '24
Utilization of exhaust steam in manufacturing plants. C: L. Hubbard. diag Sanitary & Heat Eng 102:332-4+ N 14 '24
Utilizing exhaust steam in an evaporator. R. C. Canby. Chem & Met Eng 32:290 F 16 '25
Which—super power or super heat. E. Douglas. Am Ind 25:5-8 D '24

See also Waste heat

EXHAUST systems
Exhaust systems for granite cutters. il Sheet Metal Worker 15:1025-7+; 16:16+ Ja 30-F 13 '25
Exhaust systems for wood working. il Sheet Metal Worker 16:437-9+ Jl 17 '25
Exhausting acid fumes with a standard fan. E. H. Clark. il Chem & Met Eng 32:394 Mr '25
Fume removal equipment for pickling plants. il Automotive Ind 53:787 N 5 '25
Granite exhaust systems compulsory. Sheet Metal Worker 16:372 Je 19 '25
Grinding dust exhaust system. C. Lynndelle. diag Mach 32:221 N '25; Same. Brass W 21:400 N '25
Handling materials by air in industry. C: L. Hubbard. il diags Ind Eng 83:427-31+ S '25
How we use waste to cut power costs. F. Orey. il Factory 35:88+ Jl '25
New regulations for the installation of blower and exhaust systems. diags Heat & Ven 21: 63-4 Je; 84-5 Jl; 67-8 Ag '24
Novel development in shop ventilation; Gillette safety razor company. I. H. Gaskin. System 44:800-1+ D '23
Removing dust produced in industrial plants. C: L. Hubbard. il diags Ind Eng 83:320-6+ Jl '25
Removing obnoxious fumes, gases and vapors. C: L. Hubbard. il diags Ind Eng 83: 276-80+ Je '25
Removing steam from dye houses. il plans Sheet Metal Worker 16:375-7+ Je 19 '25
Stebbins portable chip trap for stone dust exhaust systems. diags Sheet Metal Worker 16: 581 S 11 '25
Suggestions on exhausting stone dust. W. T. Wrightson. il diag Sheet Metal Worker 16:189-90 Ap 24 '25
Things to know about fan application. H. W. Pfeffer. il chart diag Sheet Metal Worker 15:283-5+ My 9 '24

See also Dust removal

EXHAUSTERS, Gas. See Gas exhausters

EXHIBITION buildings
British Empire exhibition. J. B. C. Kershaw. il Sci Am 131:80-1, 168+ Ag-S '24; Same (pt 1). Brass W 20:267-9 Ag '24
British Empire exhibition buildings. il plan Engineering 117:225-8, 263-6, 291-3, pl 17-24 F 22-Mr 7 '24
Exhibition hall of high-strength structural steel. il diags Eng N 93:1026 D 25 '24
L'exposition internationale des arts décoratifs et industriels modernes, Paris, avril-octobre 1925. P. Calfas. il plans Génie Civil 86:525-31 My 30 '25

EXHIBITION buildings—*Continued*
International exposition of modern industrial and decorative art in Paris. W. F. Paris. il Arch Rec 58:365-85 O '25
Die neue automobil-ausstellungshalle des Reichsverbandes der automobilindustrie. J. Krämer and H. Schmuckler. il diags plan Zeit Ver Deutsch Ing 68:1298-1301, 1341-3 D 13, 27 '24
Le Palais de la foire de Lyon. P. Calfas. il diags plans Génie Civil 86:225-30 Mr 7 '25
Wembley—advertisement for the Empire and engineering. E. J. Mehren. il Eng N 93: 866-9 N 27 '24

EXHIBITIONS
British fairs during the year. Am Ind 25:37-8 Ja '25
French exposition at the Grand Central Palace, New York. plan Arch Forum 41:43, pl 10-12 Jl '24
Lord Askwith's address on exhibitions. Engineering 116:596-7 N 9 '23
Markets and world fairs—methods of display older than shop-windows. L. O. Welcome. il Dun's Int R 45:47-51 Je '25
Open season for expositions. Ptr Ink 126:56 Ja 3 '24
Le parc des expositions de la ville de Paris et la Foire de Paris. G. Coupan. il map plan Génie Civil 86:552-5 Je 6 '25

See also Aeronautics—Exhibitions; Automobiles—Exhibitions; British Empire exhibition; British industries fair; Canadian national exhibition; Chemical industries—Exhibitions; Electric industries—Exhibitions; Electric instruments—Exhibitions; Factory exhibits and demonstrations; Gas industry—Exhibitions; Grenoble exhibition; International exposition of modern decorative and industrial arts, Paris, 1925; International trade exhibition; Machine tools—Exhibitions; Machinery—Exhibitions; Mining machinery—Exhibitions; Physical instruments—Exhibitions; Radio apparatus—Exhibitions; Scientific apparatus and instruments—Exhibitions; Women's world fair, Chicago

Information service
Information booth at New York's Silver jubilee. R. B. Rankin. Special Lib 14:128-9 O '23

EXHIBITS
Five sales managers tell what they have learned about exhibits. il Sales Management 7:1262+ Jl '24
How Sheaffer takes the factory to the consumer; special car carrying pen displays. il Sales Maangement 9:493 O 17 '25
How the government makes 'em look when they won't listen. B. Trueman. il Ptr Ink M 9:42-4+ D '24
Send your factory on a visit to the trade. A. K. Barnes. Ptr Ink M 10:122+ Je '25

EXITS
Building exits code applicable to hospitals, sanitariums, and corrective institutions. Safety Eng 49:263-4+ Je '25

EXPANDED concrete. See Concrete, Porous

EXPANSION (heat)
Application of the interferometer to measurements of the thermal dilatation of ceramic materials. G: E. Merritt. diags U S Bur Stand Sci Pa 485:357-73 '24
Determination of the thermal coefficients of expansion of some commercial metals and alloys. J. N. Friend and R. H. Vallance. diags Engineering 117:352 Mr 14 '24
Enormous forces produced by pipe expansion. diags Power 59:148 Ja 22 '24; Discussion 59:379 Mr 4 '24
Expansion effect of heat. Am Gas J 121:637-8, 659-60, 683-4, 705-6, 727, 751-2, 773-4, 795-6, 817, 835-6, 857-8, 881-2, 905-6, 1087-8, 1111, 1133-4, 1155-6, 1179 Jl 12-O 4, 18-N 15 '24
Repeated thermal expansions and contractions: their effect on long armature coil insulations. T. S. Taylor. il diags Am Inst E E J 43:1047-50 N '24
Thermal expansion of aluminum and various important aluminum alloys. P: Hidnert. il U S Bur Stand Sci Pa 497:697-731 '25; Abstract. J Fr Inst 199:539-41 Ap '25; Summary. Automotive Ind 53:578 O 1 '25
Thermal expansion of fused quartz. G: E. Merritt. diag Am Cer Soc J 7:803-8 N '24
Thermal expansion of molybdenum. P: Hidnert and W. B. Gero. il U S Bur Stand Sci Pa 488:429-44 '24

EXPANSION joints. See Concrete construction—Expansion joints; Pavements, Concrete—Expansion joints

EXPERT evidence
See Engineers as witnesses

EXPLOSION insurance. See Insurance, Explosion

EXPLOSION method. See Chemistry, Analytic

EXPLOSION pots. See Electric circuit breakers—Explosion pots

EXPLOSIONS
Ammonite explosion a tragic chapter in chemical history. il map plan Chem & Met Eng 30:382-3 Mr 10 '24
Another autogenously welded tank failure. Locomotive 35:239-40 O '25
Another terrible explosion in New Jersey at plant of Nixon nitration company. il Safety Eng 47:143-4 Mr '24
Autogenously welded tank failure at New Orleans. il Locomotive 35:207-8 Jl '25
Bleaching powder explosions. A: H. Gill. Ind & Eng Chem 16:577-8 Je '24
Carbon bisulphide still explosion. Chem Age (Lond) 10:617 Je 14 '24
Constant pressure bomb. F. W. Stevens. il diags U S Nat Advisory Com for Aeronautics 1923:305-10 '24
Decomposition of liquid hydrocyanic acid. M. Walker and D. N. Eldred. il Ind & Eng Chem 17:1074-81 O '25
Detonation of gasoline and liquid chlorine mixtures. B: T. Brooks. il diag Ind & Eng Chem 17:752-3 Jl '25
Digester explosion at Lock Haven, Pa. il diags plan Locomotive 35:162-5 Ap '25
Electrical explosion of tungsten wires. H: V. A. Briscoe, P. L. Robinson and G: E: Stephenson. diags Chem Soc J 127:240-7 Ja '25
An "empty" tank explodes. G: R. Ensminger. il diags plan Chem & Met Eng 30:546-8 Ap 7 '24
Explosion hazard in industry. R. Furness. Chem Age (Lond) 11:184-6 Ag 23 '24
Explosion of a power station superheater. Engineering 120:225 Ag 21 '25
Explosion of a steam chest. Engineering 120: 543 O 30 '25
Explosion of a steam radiator. Engineering 120:206 Ag 14 '25
Explosion of acetylene and nitrogen; spectra of explosions of gases containing hydrogen, carbon, nitrogen, and oxygen. W: E: Garner and S. W. Saunders. Chem Soc J 127:77-82 Ja '25
Explosion of acetylene and nitrogen; the effect of the addition of oxygen on the production of hydrocyanic acid. W: E: Garner and S. W. Saunders. Chem Soc J 125: 1634-41 Ag '24
Explosion of ammonia with carbon monoxide and oxygen. J: W: Beeson and J. R. Partington. diag Chem Soc J 127:1146-50 My '25
Explosion of ammonia with electrolytic gas and oxygen. J. R. Partington and A. J: Prince. Chem Soc J 125:2018-25 O '24
Gas explosions; how gas is often made the goat. A. F. Kunberger. Am Gas J 122:89-90+ Ja 31 '25
Gaseous explosions. G. G. Brown, E. H. Leslie and J. V. Hunn. diag Ind & Eng Chem 17:397-402 Ap '25
Hot water incinerator explosion. il Power 59: 307 F 19 '24
Investigation into the causes of the Oppau explosion. Chem Age (Lond) 10:408-10 Ap 19 '24; Engineering 117:501-2 Ap 18 '24
Kolonnenexplosionen bei der sauerstoffgewinnung. F. Pollitzer. Stahl & Eisen 45:895-6 Je 4 '25

EXPLOSIONS—*Continued*
Prevention of explosions in air receivers. W: F. Parish and W: B. S. Whaley. Inst Pet Tech J 11:305-10 Je '25; Same. Safety Eng 50:57-60 Jl '25; Same cond. Power 61:1048 Je 30 '25; Same cond. Power Pl Eng 29:755-6 Jl 15 '25; Discussion. Power 62:339 S 1 '25
Safety jury reports on manhole explosion. diag Nat Safety N 11:37 F '25
Spark photography as a means of measuring rate of explosion. J: E. Smith. il diags Phys R 25:870-6 Je '25
Structural teachings of the Oppau explosion. E. G. Friedrich. il Eng N 92:66-7 Ja 10 '24
Study of the oxygen-oil explosion hazard; abstract. M. D. Hersey. Mech Eng 46:631 O '24

See also Air compressors—Failures; Boiler explosions; Coal dust; Coal mines and mining—Accidents and explosions; Dust explosions; Electric motors—Failures; Explosives; Flywheel explosions; Inflammable mixtures; Mine accidents; Mine explosions; Mine fires; Molasses tank explosions; Steam turbines—Failures; Tanks—Failures

Bibliography

See Inflammable mixtures—Bibliography

EXPLOSIVES
Additions, removals and changes in permissible list of explosives from January 1, 1923 to December 31, 1923. J. E. Crawshaw. U S Bur Mines Rep of Invest 2561:1-2 Ja '24 (typew)
Additions, removals and changes in permissible list of explosives from January 1, 1924 to September 30, 1924. J. E. Crawshaw. U S Bur Mines Rep of Invest 2644:1-2 O '24 (typew)
Ammonium nitrate as an explosive. R. M. Cook. il Chem & Met Eng 31:231-3 Ag 11 '24
Better use of explosives. Chem & Met Eng 32:106-7 Ja 19 '25; Same cond. Eng & Contr (Ry) 63:346 F 18 '25
Blasting with high explosives. W. G. Boulton. 108p Pitman '23
Commercial explosives—their selection and use. D. P. Allison. il Eng & Min J 117:197-201 F 2 '24
Détermination de la force théorique et du covolume des explosifs. E. Burlot. Génie Civil 85:484 N 22 '24
Development and application of initiating explosives. B. Grotta. il Ind & Eng Chem 17: 134-8 F '25
Development and use of industrial explosives. A. La Motte. Eng & Contr (Ry) 62:1331-6 D 17 '24
Efficient blasting in metal mines. A. E. Anderson. diags Eng & Min J 118:845-51 N 29 '24
Explosibility. A. Marshall. Soc Chem Ind J (Chem & Ind) 43:616-18 Je 13 '24
Explosives and fertilizers. A. H. White. Am Inst Chem Eng Trans v 14:259-70; Discussion. 270-3 '21-'22
Explosives and thermits. A. Marshall. Soc Chem Ind J (Chem & Ind) 43:326 Mr 28 '24
Hazards of non permissible explosives. S. P. Howell and M. W. von Bernewitz. U S Bur Mines Rep of Invest 2583:1-5 Mr '24 (typew)
High explosives that will not freeze. il Sci Am 130:94 F '24
How the explosives industry regards ammonium nitrate. C: E. Munroe and others. Chem & Met Eng 30:621-3 Ap 21 '24
Is ammonium nitrate an explosive? R. Aufschläger. Chem & Met Eng 30:619-21 Ap 21 '24
Mine safety in the handling of explosives. Nat Safety N 10:39-40 O '24
Permissible explosives, mining equipment and apparatus approved prior to January 1, 1924. J. E. Crawshaw and others. U S Bur Mines Tech Pa 364:1-30 '24
Permissible explosives, mining equipment, and rescue apparatus approved prior to January 1, 1925. J. E. Crawshaw and others. U S Bur Mines Tech Pa 376:1-35 '25
Twenty-five years' progress in explosives. C: L. Reese. il J Fr Inst 198:745-68 D '24

See also Ammonium nitrate; Blasting; Coal mines and mining—Explosives; Cordeau-Bickford; Detonators; Dynamite; Inflammable mixtures; Liquid air; Nitrocellulose; Nitroglycerine; Nitroguanidine; Oxygen, Liquid; Tetryl; Torpedoes; Trinitrotoluene; *also* Bureau for the safe transportation of explosives and other dangerous articles

Law

Care in manufacture of explosives. W. Gustin. Chem & Met Eng 30:192 F 4 '24
La nouvelle réglementation des explosifs de mine en Allemagne. H: Muraour. Chimie & Ind 11:176-93 Ja '24

Manufacture

Bessemer high-explosives plant opened. il Manuf Rec 87:83 Je 18 '25
Substitutes for nitroglycerine in explosives manufacture. C: L. Reese. Chem Age 32: 481-3 D '24

Statistics

Explosives, 1922-24. Survey of Cur Business 36:130-1 Ag '24 [continued quarterly]
Pennsylvania uses most explosives. Am Ind 25:38 Ap '25
Production of explosives in the United States during the calendar year 1923. W: W. Adams. U S Bur Mines Tech Pa 358:1-32 '24; Excerpts. Eng & Contr (Ry) 61:843, 1144 Ap 16, My 21 '24

Storage

British rules for locating magazines. Coal Age 25:839 Je 5 '24

Testing

How explosive are explosives? G. A. Rankin. il Sci Am 133:94-5 Ag '25
Testing explosives for governmental and commercial purposes. J. W. Paul and J. E. Crawshaw. Am Inst Chem Eng Trans v 15 pt 2:43-50; Discussion. 50-3 '23
Velocity of detonation of various types of explosives. W. H. Ward. Eng & Contr (Ry) 61:1359-60 Je 18 '24

Transportation

Bureau of explosives and its work. B. W. Dunn. Nat Safety N 8:12 N '23
Chemical transportation rules procedure changed. Oil Paint & Drug Rep 107:65 Je 15 '25
What keeps cities from blowing up. B. W. Dunn. Am Ind 24:38-9 Jl '24
Work of the Bureau of explosives. Chem Age 32:113-14 Mr '24

See also Gas containers; Tank cars

EXPLOSIVES, Liquid oxygen. See Oxygen, Liquid

EXPORT associations
Combination of export interests held legal under Webb-Pomerene act. R. W. Johnson. Sales Management 7:1484 S '24
Combinations in foreign trade. J. E. Davies. Oil Paint & Drug Rep 105:19+ F 11 '24
Federal trade commission gives views on proposed Silver export association. Eng & Min J 118:224-5 Ag 9 '24
Interpretation by Federal trade commission of provisions of Webb-Pomerene export trade act respecting formation of export association by silver producers. Comm & Fin Chr 119:649-50 Ag 9 '24

EXPORT departments
What will it cost us to run an export department? H. L. Kraus. Sales Management 7: 1792 N '24

EXPORT managers club of New York
Annual meeting, 6th, New York. Ptr Ink 131:76 Ap 2 '25
Convention, New York, March 18. World's Markets 15:7-10+ My '24

EXPORT steamship corporation

Give private operation at trial; Export steamship corp. buys 18 government ships and operates them in the foreign trade. il map Marine R 55:417-19 N '25

EXPORT trade

A B C of exporting's legal side. B. Trueman. Ptr Ink M 11:65-6 Jl '25

Advertising outlook in the British overseas dominions; British market outside of the United Kingdom. Sales Management 8:87-8 sec 2 Ja 10 '25

American products that should go well in England this year. J. C. Aspley. map Sales Management 6:1177-8+ pt 2 Je '24

Another export record in 1924! will we go over the top again next year? N. G. Shidle. Automotive Ind 51:1033-4 D 18 '24

Are sales managers blind to Canadian sales opportunities? R. W. Johnson. il Sales Management 6:1182-4+ pt 2 Je '24

Blankets for head hunters. G. A. O'Reilly. Nation's Business 13:46-7 Jl '25

British sales possibilities. P. S. Salisbury. il Sales Management 6:383-4+ Ja '24

Build export sales through known facts. L. Emery. Elec W 85:793-4 Ap 11 '25

Careful marking of export shipments. Mach 30:433 F '24

Cement exported from U.S. Eng N 92:634 Ap 10 '24

Change in drift of export trade. Bradstreet's 53:289 My 2 '25

Coming conflict in international trade and the relation of the United States thereto. J. Klein. Econ W n s 29:436-8 Mr 28 '25; Same. Manuf Rec 87:103-4 Ap 2 '25; Same. Ptr Ink 131:25-6+ Ap 2 '25; Same. Am Ind 25:31-3 My '25; Same cond. Am Mach 62:562b Ap 2 '25; Same cond. Automotive Ind 52:622-3 Ap 2 '25; Excerpt. Iron Age 115:963 Ap 2 '25; Excerpts. Elec W 85:794 Ap 11 '25

Contrast of American with European export policies; American merchants in foreign countries. B. O. Hough. Harvard Business R 2:319-33 Ap '24

Development of the organisation of Anglo-American trade, 1800-1850. N. S. Buck. 190p [bibliog. p. 178-85] Yale univ. press, New Haven '25

Diffusion of industry and the international market for manufactures. E. M. Miller. Comm M 5:3-13 Ja '24

Does the dog deserve a bad name? A. B. Cook. il Burroughs Clearing House 8:19-20+ F '24

Doing business in the Balkans. S. Crowther. il System 45:786-9+ Je '24

Dramatic advertising scenarios from foreign sales experiences. Ptr Ink M 8:74+ F '24

Eversharp's foreign advertising policy. Ptr Ink 125:115-16+ D 13 '23

Export department comes to the rescue! W. F. Wyman. Ptr Ink M 10:22+ My '25

Export outlook for American manufacturers. J. Klein. Econ W n s 29:724-6 My 23 '25

Export outlook in machine tools. W. H. Rastall. Iron Age 116:745-7 S 17 '25; Same. Mach 32:109-10 O '25

Export outlook pictured bright; discussion at Cleveland foreign trade conference. Iron Age 115:1499 My 21 '25

Export problem of the machine-tool industry. W. H. Rastall. Mech Eng 46:184-5+ Ap '24; Same cond. Am Mach 60:467-8 Mr 27 '24

Export trade expected to increase in 1925. H. Hoover. Annalist 25:13-14 Ja 5 '25

Export trade has good outlook. J. Klein. Forbes 15:109+ O 15 '24

Export trade in automobiles. H. H. Kelly. Ann Am Acad 116:251-4 N '24

Exporters should see the whole picture. C. Lane. Am Mach 62:498 Mr 26 '25

Exports of chemicals and allied products. Chem & Met Eng 32:144-5 Ja 19 '25

Exports (U.S.A.) unltd. L. O. Welcome. World's Markets 14:15 F '24; Same. Dun's Int R 43:37-8 Mr '24

Foodstuffs export trade of the United States. L. A. Wheeler. U S Bur For & Dom Com Trade Information Bul 355:1-29 '25

Foreign trade in relation to industry. F: C. Mills. Management & Adm 7:573-6 My '24

Foreign trade prospects. il Mach 31:374-8 Ja '25

Future of export trade. J. H. Barnes. World's Markets 14:18-19 Ja '24

Holding our export dominance. Comm & Fin 14:593 Ap 1 '25

Hoover sees prosperity in foreign trade. Ptr Ink 128:37-8+ S 18 '24

How the Dawes plan is affecting our foreign trade. J: R. Robinson. Ptr Ink 129:61-2+ N 13 '24

International commerce of the United States; report to National foreign trade council. Ry R 77:65-6 Jl 11 '25

Key to national prosperity. J. Nahoum. 381p Dutton '23

London market for American textiles. H. D. Butler. U S Bur For & Dom Com Trade Information Bul 161:1-16 '23

Machine tools—the European market. W. H. Rastall. Am Mach 60:851-2 Je 5 '24; Same. Iron Age 113:1502-3 My 22 '24

Market methods and trade usages in London. U S Sp Cons Rep 86:1-82 '23

Marketing cotton for export. E. L. Tutt and W: R. Meadows. U S Bur For & Dom Com Trade Information Bul 288:1-45 '24

Marketing of American meat products in export trade. J. E. Wrenn. U S Bur For & Dom Com Trade Information Bul 333: 1-60 '25

Markets for canned foods in the western hemisphere. B. R. Hart. U S Bur For & Dom Com misc ser 128:1-222 '24

National foreign trade convention 11th annual meeting, Boston. Bankers M 109:87-93+ Jl '24

New England foreign trade conference, April 29-30, at Providence, R.I. Iron Age 115:1343 My 7 '25

Opening markets in Peru and Chile. E. R. Murphey. il System 46:281-4+ S '24

Oriental trade methods. F. R. Eldridge. 441p Appleton '23

Orient's 1925 trade outlook generally good. C: Hodges. Annalist 25:10+ Ja 5 '25

Our foreign trade in a favorable position. H. Hoover. Annalist 23:13+ Ja 7 '24

Our foreign trade outlook. Moody's Inv Serv 17:221-3 Jl 2 '25

Outlook for American products in England this year. map Sales Management 8:82-4+ sec 2 Ja 10 '25

Outlook for cotton textile exports. J. Klein. Textile World 67:2531+ Ap 11 '25

Profit side of exporting. W. F. Wyman. Ptr Ink 127:77-8+ Je 12 '24

Profitable export market analysis; methods of American automotive manufacturers. G: F. Bauer. Management & Adm 9:561-4 Je '25

Road to export sales; Quaker Oats company. D. Hubbard. Ptr Ink 126:49-50+ Mr 27 '24

Secondary markets must be developed; discussion at foreign trade conference. Iron Tr R 73:1656-7 D 20 '23

Sell the government first—if you would succeed in Latin America. B. S. Gili. il Sales Management 7:1371-2+ Ag '24

Simplification of manufacture points the way to more exports. Ptr Ink 128:41-2+ Ag 21 '24

Situation in foreign trade. L: H. Haney. Iron Age 115:492-4 F 12 '25

South leads other sections of country in domestic exports. Manuf Rec 87:81-2 Je 4 '25

South's great progress in foreign trade. H. C. Hoover. Manuf Rec 86:131-3 pt 2 D 11 '24

Transfer problem—bugaboo of our foreign trade and investment operations. G: P. Auld. Annalist 25:773-4 Je 8 '25

Transportation in relation to the export trade in agricultural products. R. M. Kramer. diags U S Bur For & Dom Com Trade Information Bul 216:1-74 '24

U.S. steel's president on the export outlook. J. A. Farrell. Ptr Ink 131:153-4+ Je 25 '25; Excerpts. Iron Age 115:1851-2 Je 25 '25; Iron Tr R 76:1674 Je 25 '25

Way to sell in Brazil. E. R. Murphey. il map System 46:588-91+ N '24

EXPORT trade—*Continued*
What shall the export price be? Ptr Ink 133: 151-2+ O 1 '25
What the foreign market holds for Americans. J. Klein. Am Mach 60:543-4 Ap 10 '24
Work of the Senate commission of gold and silver inquiry in relation to American agriculture and foreign trade. T. L. Oddie. Econ W n s 28:413-15 S 20 '24
Yankee goods; the British barrage. W. C. Hoyt. Am Ind 25:5-7 Ja '25

See also Advertising, Foreign; Balance of trade; Bankers' association for foreign trade; Credit, Foreign; Foreign exchange; Letters of credit; Marketing, Foreign; Origin, Indication of; Packing for shipment; Tariff; United States—Commercial treaties; *also* subdivision Commerce under names of countries, e.g. Latin America—Commerce; South America—Commerce; United States—Commerce

Advertising

See Advertising, Foreign

Finance

American banks and American foreign trade. J. P. Warburg. Harvard Business R 3:20-6 O '24
Exporting machinery on credit. W. H. Rastall. Am Mach 62:965-8 Je 18 '25; Same abr. Iron Tr R 76:1572-4 Je 18 '25
Financing automobile sales abroad. G: F. Bauer. Management & Adm 9:365-8 Ap '25
International trade finance. G: W. Edwards. 495p Holt '24
New company formed to finance foreign trade. Bankers M 109:944-6 N '24
Protecting foreign shipments; insurance against credit risks. H. L. Gibson. Management & Adm 9:39-40 Ja '25

Government aid

Britain's way of helping her exporters. C. W. Gerson. Ptr Ink 129:33-4+ D 25 '24
Helping the exporter. 50p U.S. Dept. of commerce, Washington '23
How the Department of commerce aids in export trade. Mach 30:882 Jl '24
Men who are helping you to build up overseas trade. W. Fawcett. il Sales Management 6:803-4 Ap '24
Million calls for information on foreign trade. W. Fawcett. Sales Management 6:415-16 Ja '24
The United States Bureau of Foreign and Domestic Commerce maintains a classified index of American merchants and manufacturers interested in overseas trade and supplies them without charge with reserved and confidential information on foreign trade opportunities and trade lists and with other helpful data received from commercial attachés, trade commissioners, consular officers, and other official representatives abroad

See also United States—Foreign and domestic commerce, Bureau of

Sales management

American guarantees abroad. J. True. Ptr Ink 130:25-6+ F 19 '25
Better methods are needed to put pep in accessory export sales. P. F. Baillet. Automotive Ind 51:886 N 20 '24
Consistent efforts are needed in export selling. Automotive Ind 53:669-71 O 15 '25
Developing export sales with a one-man organization. B. G. Peck. Ptr Ink 129:41-2+ O 30 '24
Don't dabble in exporting! W. F. Wyman. Ptr Ink 132:10+ S 3 '25
Export manager and combination agent both have place in export selling. Automotive Ind 51:718-19 O 23 '24
Export managers club of New York convention, New York, March 18. World's Markets 15:7-10+ My '24
Export salesman registers a protest. J: Chapman. Ptr Ink M 10:19-20+ Ap '25
Exporting hints; the question of language is important in exporting offices. A. J. Smith. Gas Age 53:776+ My 31 '24
Exporting's tremendous trifles. W. F. Wyman. Ptr Ink 131:3-4+ Je 11 '25
Getting the whole organization behind the export order. W. F. Wyman. il Ptr Ink M 8:32-4+ Ap '24
Globe-trotting sales manager tells what he found in Europe. il Sales Management 9:271-2+, 411-12+ S 5, O 3 '25
How a typewriter manufacturer provides distributor co-operation. E: N. Vose. il Dun's Int R 45:47-52 Jl '25
How to go about getting business in France. A. Wiesenberger. il System 48:55-9+ Jl '25
How Walk-over shoes are sold under ninety flags. R. W. Johnson. il Sales Management 8:27-8 Ja 10 '25
Libby sells in Rome as it does at home. E. G. McDougall. Ptr Ink 129:33-4+ N 20 '24
Making exports balance production. D. P. de Young. Management & Adm 10:19-22 Jl '25
Making the export salesman's first trip pay dividends. W. F. Wyman. il Ptr Ink M 8:37-8+ Je '24
Organisation de la vente à l'étranger. J. Parmentier. Chimie & Ind 12:371-8 Ag '24
Packages that satisfy the foreigner. D. P. De Young. il Management & Adm 9:139-42 F '25
Representatives for export. L. O. Welcome. il Dun's Int R 44:42-5 S '24
Selling the automobile overseas; how General motors' export business is handled. J. D. Mooney. il chart Management & Adm 8: 27-32 Jl '24
Shall we tackle exporting? E. Whitmore. Sales Management 9:141-2+ Ag 8 '25
Some important first steps in exporting. W. F. Wyman. Sales Management 8:866-8+ Je 13 '25
Some pointers on writing to foreign correspondents. S. W. Dorman. Ptr Ink 126:112+ F 14 '24
Sure way to build a lasting foreign business; sales representation. L: C. M. Reed. il System 44:762+ D '23
Swivel-chair touring gets no export business. R. M. Ellis. Ptr Ink M 11:23+ Jl '25
Training for foreign trade. J. A. Farrell. World's Markets 15:11-12 My '24
Value of foreign travel of export managers. J. D. Mooney. Am Mach 60:512 Ap 3 '24
What packages mean to the salesman in foreign lands. il Sales Management 9:577-9+ O 31 '25
When you send a salesman overseas. il Sales Management 9:487-90 O 17 '25
When you transplant American salesmen to foreign soil. J: M. White. Ptr Ink 128:118+ S 18 '24
Who sells to the Argentine? E. R. Murphey. il System 47:325-9+ Mr '25
Will an exporter's house organ pay? F. S. Phillips. System 46:440+ O '24

Statistics

Continued increase in our foreign trade. Index p 16 My '25
Country's foreign trade. Comm & Fin Chr 118:1332 Mr 22 '24 [continued monthly]
Details of our foreign trade for 1924 as compared with 1923. Manuf Rec 86:85 Ag 7 '24
Domestic exports by classes of commodities and grand divisions, 1921-1924. Survey of Cur Business 30:199, 202-3 F '24 [continued quarterly]
Domestic exports of canned and dried foods. Comm & Fin Chr 119:2477 N 29 '24 [continued monthly]
Domestic exports of grain and grain products in 1924. Comm & Fin Chr 120:645-6 F 7 '25
Electrical exports encouraging. R. A. Lundquist. Elec W 85:54-5 Ja 3 '25
Export trade currents. Bradstreet's 53:163 Mr 7 '25
Exports of cars, trucks and tires for September, 1924. Automotive Ind 51:898-9 N 20 '24
Exports of cotton. Comm & Fin Chr 119:2465 N 29 '24 [continued monthly]

EXPORT trade—Statistics—*Continued*
52-year record of exports from the United States, 1871-1923, arranged alphabetically by names of products. Oil Paint & Drug Rep 105:12+ Mr 20 '24
53-year record of exports from the United States, 1871-1924. Oil Paint & Drug Rep 107:20+ Mr 26 '25
Foreign trade fluctuations. Bradstreet's 52: 269 Ap 26 '24
Foreign trade growth in the fiscal year. Bradstreet's 53:465 Jl 18 '25
Foreign trade of the United States in 1923. Nat City Bank p 4-6 Ja '24; Same. Gas Age 53:11-12+ Ja 5 '24
Foreign trade of United States, with principal countries, for eleven months ending November 1924. Manuf Rec 87:59 Ja 15 '25
Foreign trade trends. Bradstreet's 52:349-50 My 31 '24
France increases its machinery buying from United States in 1924. Am Mach 62:256c F 5 '25
Gasoline ranks fourth among all commodities exported in 1924. Nat Pet N 17:98 Je 10 '25
Grain exports during October. Comm & Fin Chr 119:2476 N 29 '24 [continued monthly]
Healthy increase in electrical export trade during 1923. R. A. Lundquist. Elec W 83: 45-6 Ja 5 '24
Increased exports of the United States in 1924. E. D. Durand. Econ W n s 29:82-3 Ja 17 '25
July export trade totals. Bradstreet's 53:561-2 Ag 29 '25
Marked gain in agricultural exports in 1924. Manuf Rec 87:67 Ja 29 '25
Principal exports of generators, wire, electrical glassware, globes, and shades for lighting fixtures, etc., from the United States during 1923; tabulation. Elec W 83: 1158-9 My 31 '24
Principal exports of locomotives, starting and control equipment, fans, lamps, flashlights, searchlights, etc., from the United States during 1923; tabulation. Elec W 83:1210-11 Je 7 '24
Principal exports of railway signaling apparatus, magnetos, insulating material, wiring supplies, radio apparatus, telephones, etc., from the United States during 1923; tabulation. Elec W 83:1160-1 My 31 '24
Principal exports of switches, circuit breakers, watt-hour meters, lightning arresters, motors, storage batteries, etc., from the United States during 1923; tabulation. Elec W 83:1208-9 Je 7 '24
Rally in exports in August. Bradstreet's 52: 622 S 27 '24
Summary of exports: calendar years 1923 and 1924. Oil Paint & Drug Rep 107:16+ Mr 26 '25
United States' foreign trade amounts to $22,650,000 per day. D: Beecroft. Automotive Ind 50:1269-71 Je 12 '24
United States foreign trade tonnage growing. Manuf Rec 86:75 N 13 '24
World trade approaching pre-war volume; 30 per cent gain by the United States. Manuf Rec 88:77 N 5 '25

Terminology

See F. O. B.

EXPRESS cars. See Baggage and express cars

EXPRESS companies
Express companies not "carriers by railroad;" decision of United States Supreme court. Ry Age 76:1788 Je 21 '24

EXPRESS rates
Revision of express rates prescribed by I.C.C.; abstracts of decision. Ry Age 75:1073-5 D 8 '23; Ry R 73:847 D 8 '23

EXPRESS service
Airways soon to be used by American railway express. O. D. Foster. il Forbes 16: 168-70+ My 15 '25
Magnitude of the railway express business. R. E. M. Cowie. Ry R 76:347-8 F 21 '25

See also Electric railroads—Freight; *also* American express company

EXTENSOMETER
Measurement of mechanical vibrations. H. A. Thomas. diags Engineer 139:102-4 Ja 23 '25
New form of extensometer; abstract. R. W. Chapman. diag Mech Eng 47:510 Je '25
Optical strain gages and extensometers. L. B. Tuckerman. il diags Am Soc T M Pro 23 pt 2:602-10 '23
Roller extensometers for longitudinal and lateral strains. il diag Engineering 119:207-8 F 13 '25
Single-lever extensometer. diag Engineering 120:510 O 23 '25
Tests properties of strip metal. L. Aitchison and L. W. Johnson. il diags plans Iron Tr R 74:1361-4 My 22 '24

See also Strain gages

EXTRACTION apparatus
Automatic devices for extracting alkaloidal solutions. S. Palkin, A. G. Murray and H. R. Watkins. bibliog diags Ind & Eng Chem 17:612-14 Je '25
Continuous extraction apparatus. P. A. Houseman and C. K. Swift. diag Ind & Eng Chem 17:830-1 Ag '25
Continuous extraction apparatus for large quantities of plant materials. C: E. Sando. diag Ind & Eng Chem 16:1125 N '24

EXTRACTION processes
Extraction of nitrogenous constituents from plant cells. W. E. Tottingham, E. R. Schulz and S. Lepkovsky. Am Chem Soc J 46:203-8 Ja '24
Grundsätze der extraktion und ihre anwendung im apparatebau. O: Michaelis. diags Zeit Ver Deutsch Ing 69:835-9 Je 20 '25
Palm-oil extracting and kernel-separating plant for Nigeria; British Empire exhibition. diags Engineering 118:513-14, pl 54-5 O 10 '24

See also Hydrometallurgy; Leaching

EXTRACTOR and friction cleanser
Apparatus for the removal of impregnating and coating materials from processed papers. F. T. Carson. il diag Tech Assn Pa ser 8:103-4 '25; Same. Paper 35:39-40 F 12 '25; Same. Paper Tr J 80:53-4 Mr 19 '25

EXTRUSION process
Extrusion defect. S. W. Dean. il Engineering 119:102-3 Ja 23 '25
Extrusion of brass rod by the inverted process. R. Genders. il diag plan Engineering 118:387-90 S 12 '24; Same cond. Am Mach 61:845-6 N 27 '24; Conclusions. Brass W 20: 351-2 O '24; Metal Ind 22:401 O '24
How collapsible tubes are made from soft metal. E. Sheldon. il diag Am Mach 62: 983-7 Je 25 '25
New extruding press. il Engineer 138:293 S 12 '24
Some extrusion problems; abstract. Sheppard. Mech Eng 46:150-1 Mr '24

EYE
Blue eyes. C. W. Mason. J Phys Chem 28: 498-501 My '24
Effect of modern illuminants on the eye. G: S. Crampton. Illum Eng Soc 19:96-8 Ja '24; Same. Am Inst E E J 43:276-7 Mr '24
Effects of quantity and quality of illumination upon the human eye and vision. C: Sheard. Safety Eng 47:91-8 F '24; Same. Nation's Health 6:316-18+ My '24
Illumination and the human eye. W. J. Harvey. Illum Eng Soc 19:106-8 Ja '24
Jewels in the eyes of insects. S. F. Aaron. il Sci Am 132:32-3 Ja '25
Lighting and the pupil of the eye. Elec W 83:812-13, 1133, 1185 Ap 26, My 31-Je 7 '24
Ocular principles in lighting. C. E. Ferree and G. Rand. il Illum Eng Soc 20:270-95 Mr '25

See also Eye strain; Optics, Physiological; Sight

Bibliography

Eyesight conservation survey. p. 189-200 Eye sight conservation council of America, Times bldg., New York '25

EYE—*Continued*

Care and hygiene

Caring for the health of school children. Safety Eng 49:17-20 Ja '25
Hygiene of the eye. W: F. Bonner. il Nat Safety N 11:12 Mr '25
Hygienic conditions of illumination in two New York city post offices. Monthly Labor R 20:618-21 Mr '25

Diseases and defects

Detection of malingering in industrial ophthalmology. S. Walker, jr. Nation's Health 6:243-4 Ap '24
Pathology and bacteriology of the eye. E: T. Collins and M. S. Mayou. 2d ed. 731p Blakiston '25
Variation in eyesight at different ages, as determined by the Smellen test. Safety Eng 49:115-16 Mr '25

See also Miners' nystagmus

Examination

Importance of routine eye examinations. R: Kimpton. Nation's Health 6:321-2+ My '24
Ophthalmometry; a practical text-book for the practitioner and advanced student in optometry. E. Le R. Ryer. 220p Optical pub. co., New York '25
Periodic eye examinations in a testing laboratory. N. D. Macdonald and J. W. Smith. il Illum Eng Soc 20:168-79; Discussion. 179-82 F '25
Proper lighting as an aid in the prevention of accidents. R. E. Simpson. Illum Eng Soc 19:93-5 Ja '24
Two years of industrial ophthalmology at the Pullman car works. H. P. Davidson. J Ind Hygiene 7:247-53 Je '25

Injuries

Compensation for eye injuries. N. M. Black. charts U S Bur Labor Statistics Bul 385: 68-74; Discussion. 74-81 '25
Corneal injuries in industrial occupations. F. Allport. Safety Eng 46:207-11 N '23
Industrial eye accidents in New York state, 1922-23. Monthly Labor R 19:1357 D '24
Nature and cause of eye injuries. L: H. Carris and L: Resnick. Safety Eng 47:121-3 Mr '24
Penetrating injuries to the eye in industrial occupations. F. Allport. Safety Eng 47:5-7+, 74-6 Ja-F '24
Workmen's compensation laws relating to injuries to the eye. H. Best. Econ W n s 29: 311-15 F 28 '25

Protection

Co-operation in management of industrial eye accidents. B. W. Key. Elec Ry J 66:693-4 O 17 '25
Eye hazards in industrial occupations. L: H. Carris. Safety Eng 47:263-6 My '24: Same cond. Iron Tr R 74:1637-8 Je 19 '24; Abstract. Iron Age 113:1716 Je 12 '24
Eye hazards in industrial occupations. L: Resnick and L: H. Carris. 247p National committee for the prevention of blindness, inc., New York '24; Excerpts. Iron Tr R 75: 540-2 Ag 28 '24; Abstracts. Am Mach 60: 572 Ap 17 '24; Safety Eng 47:183-4 Ap '24; Monthly Labor R 19:1151-4 N '24
Eye shield protection. il Safety Eng 50:179 S '25
Foreign body in the eye as an industrial menace. W. I. Clark and H. W. Robbins. Nation's Health 7:548-9 Ag '25
Glass guard protects eyes from stray particles. il Coal Age 28:538 O 15 '25
Preventing eye wastage in industry. L. M. Francis. Nat Safety N 8:27-8 D '23
Prevention of eye accidents in the United States steel corporation. H. Schultz. Safety Eng 47:322-4 Je '24

The Eye sight conservation council of America, Times bldg., New York city, publishes various pamphlets on eyesight conservation

See also Goggles

EYE strain

Eye fatigue and its relation to light and work. P. W. Cobb and F. K. Moss. diag J Fr Inst 200:239-47 Ag '25
High intensity and eye-fatigue. P. W. Cobb and F. K. Moss. bibliog diag Am Inst E E J 44:672-3 Je '25

EYES, Artificial

Artificial eye hazards—a new goggle argument. Nat Safety N 11:9 Ap '25

F

F. O. B.

Free on board. il Dun's Int R 43:47-9 Mr '24
Manufacturers must have a freight policy as well as a price policy. Ptr Ink M 9:69 S '24

FABRICS

See Airplane fabric; Automobile fabrics; Cotton fabrics; Textile fabrics; Woolen and worsted fabrics

FABRIKOID

Turning cotton into leather. A. H. Berwald. Comm & Fin 14:855-6 sec 2 Ap 29 '25

FAÇADES

Beaux-Arts institute of design, student work; a Gothic Venetian palace facade. il Am Arch 126:127-8, sup 12 Jl 30 '24
Present tendencies in the design of theater facades. K. Franzheim. il diag Arch Forum 42:365-8 Je '25
Street façades in Dijon. il Arch Forum 42: 244a-h, 328a-h Ap-My '25

FACING tools

Davis rotormatic boring and facing machine. il Am Mach 60:415 Mr 13 '24
Hand-operated facing tool. C. W. Frank. diag Am Mach 62:972 Je 18 '25
Interesting back-facing tool. diags Automobile Eng 15:189 Je '25
New electric valve refacing machine. il Bus Transportation 4:399 Ag '25
Tool for refacing seats of washout plugs. H. O. Turnbull. diag Am Mach 63:322 Ag 20 '25

FACTORIES

Annual report of the Chief inspector of factories and workshops for the year 1924. Engineering 120:49-50 Jl 10 '25; Elec R (Lond) 97:155 Jl 24 '25; Gas J (Lond) 171:169-70 Jl 15 '25
Building and moving with no interruption of production. L. Anson. il Factory 32:326-7+ Mr '24
Building conditions for manufacturing chemists—building around the process. M. G. Farrell. Chem Age 32:181-3 Ap '24
Design and maintenance of factory buildings. H. Pearman. il Ind Management (Lond) 10:35-6, 63-4, 91-2, 147-50, 239-41; [cont. as] Cassier's Ind Management 11:38-40, 95-7, 153-4, 211-12, 267-8, 349-50+ Jl 26-Ag 23, S 20, N 1 '23, Ja 24, F 21, Mr 20, Ap 17, My 15, Jl '24
Factory design that speeds up shipping and receiving. M. R. Lott. il Factory 34:948+ Je '25
Factory of modern design. il diags Bldg Age 47:136-7 Ap '25
Fourteen acre radio factory of Atwater Kent manufacturing company. W. R. Fogg. il Bldg Age 47:140-1 S '25
How to put flexibility into all-concrete factory buildings. M. G. Farrell. il Factory 32:173-4+ F '24
How to work with your architect. F. M. Holcomb. Factory 33:42-5+ Jl '24
How we combined reinforced concrete and mill construction. K. D. Hamilton. il Factory 31:608-10+ N '23; Same cond. Concrete 23: 225-7 D '23
How we make it easy for our plant to expand. J: B. Gaylord. il Factory 35:76+ Jl '25

FACTORIES—*Continued*

Hoyt metal co.'s new factory. il Can Eng 49:277 S 1 '25

Increased cost of building. W. F. Dolke, jr. il Textile World 65:1009 F 2 '24

Industrial building increases. R. T. Mason. il Iron Tr R 74:37-9+ Ja 3 '24

Industrial building since 1874. C: T. Main. il Eng N 92:658-60 Ap 17 '24

London's new industrial centre; unique opportunities offered to manufacturers at Slough. il Cassier's Ind Management 11:379-80+ Ag '24

Making of the fire insurance rate; the non-fireproof manufacturing schedule. E. R. Hardy. Spectator 113:4+ D 18 '24; 114:4+ Ja 1 '25

Manufacturing building in Los Angeles, Cal. il Am Arch 126:589-90 D 17 '24

Modern manufacturing plant; American type founders company's automatic printing press factory. J: F. Fallon. il Management & Adm 10:119-24 S '25

Modern manufacturing plant; new plant of the Hall planetary company. J. R. Thomas. il plan Management & Adm 10:261-4 N '25

Modern manufacturing plant; new Westinghouse transformer factories at Sharon. C. H. Champlain. il plan Management & Adm 10:181-6 O '25

More than a factory—building of the Kirsch manufacturing company. K. B. Murray. il plan Bldg Age 46:118-21 N '24

Neue wege zum fabrikationserfolg. G: Schlesinger. il diags Zeit Ver Deutsch Ing 69:197-206, 269-74, 346-8 F 21-28, Mr 14 '25

New competition and your building. G. C. Nimmons; W. F. Ballinger; H. C. Campbell. il Ind Management 67:3-7, 91-7, 140-4, 250-4, 297-302, 356-62 Ja-Je '24

1924 industrial building drops. R. T. Mason. il Iron Tr R 76:70-2 Ja 1 '25

O'Malley-Beare valve company factory, Chicago. il plans Arch Forum 40:82 F '24

$1,000,000 plaster and wallboard plant placed in operation at Sweetwater, Texas. H. A. Simons. il Manuf Rec 86:75-6 Jl 10 '24

Oneida community extend plant at Niagara Falls. diag Can Eng 49:502 O 27 '25

Planning the new building. A. G. Anderson. il Management & Adm 9:117-20 F '25

Plant engineering as a service to production management. C. N. Lauer. Ann Am Acad 119:97-102 My '25

Straight-line production in a wide building. J. D. Wallace. System 47:226+ F '25

Ten building points that save money for us every day. D. J. Straus. il Factory 35:436+ S '25

Tendencies in building design. Factory 34: 49-52+ Ja '25

See also Automobile factories; Branch factories; Carpet factories; Cement plants; Chemical plants; Cotton mills; Dye factories; Electric driving; Factory management; Factory sanitation; Flour mills; Foundries; Glass factories; Industrial buildings; Iron works; Knitting mills; Loft buildings; Machine shops; Machine works; Paint factories; Paper mills; Rice mills; Rubber factories; Sawmills; Shoe factories; Silk mills; Steel works; Sugar factories; Textile mills; Woodworking shops; Woolen and worsted mills

Accounting

Brennende probleme der betriebsorganisation und ihre natürliche lösing. G. Schlesinger. il diags Zeit Ver Deutsch Ing 68:459-62 My 10 '24

By-products, co-products and joint products. H. L. Ducker. J Account 40:276-85 O '25

Can you trust your cost system? W: R. Basset. Factory 35:47-8+ Jl '25

Capital requirements and control. J. H. Bliss. Management & Adm 6:705-8; 7:25-30, 155-60, 299-304, 405-10, 529-32 D '23-My '24

Classification of industrial expense items including their application. H. W. Maynard. Management & Adm 6:751-3 D '23

Controlling the labor. F. L. Sweetser. Paper Tr J 79:51-5 O 9 '24

Correct costing of waste. R. B. Hobson. Cassier's Ind Management 11:381-2 Ag '24

Correct costs at little expense. G. G. Thompson. chart Management & Adm 8:517-20; 9: 67-70, 169-72 N '24, Ja-F '25; Same (pt. 1). Paper Tr J 79:59-62 D 4 '24

Cost acounting in relation to industrial policy. S. L. Gill. Cassier's Ind Management 12: 333-5, 369-71 Je-Jl '25

Cost figures from the viewpoint of the factory executive. J. E. Andrew. Paper Tr J 81:57-8 S 24 '25

Costing schemes from the manufacturers' standpoint. A. J. Simons. Cassier's Ind Management 12:189-90, 296-8, 405-7, 553-5 Mr, My, Ag, D '25

Costs and a cost system. H. P. Dix. Am Mach 60:853-5 Je 5 '24; Abstract. Iron Age 113:1582c-f My 29 '24

Costs for executives. N. A. Hall. Ind Management 67:325-8; 68:14-17, 135-8; 69:24-7 Je-Jl, S '24, Ja '25

Costs in a seasonal business. J Account 39: 229-33, 409-23 Mr, My '25

Die entwicklung und vervollkommnung der selbstkostenrechnung in der mechanischen industrie. Schulz-Mehrin. Elektrotech Zeit 46:1547-50 O 8 '25

Executive uses of costs. H. Berry. Paper 34: 944-7 S 11 '24

Expense apportionment on engineering plant extensions and maintenance. R. Stelling. Engineering 116:735-8 D 14 '23

Expense of power and building service. J. P. Kendall. Paper Tr J 78:54-6 F 21 '24

Factory accounting methods. Ind Management (Lond) 10:243-4 N 1 '23

Factory methods for the small manufacturing plant. J. E. Dykstra. Am Mach 63:569-72 O 8 '25

Fallacy of management—that average costs are of any value. B. M. Maynard and J. Heywood. Factory 32:330-1+ Mr '24

Finding and making use of factory costs. A. W. Rowley. Ind Management 67:195-200 Ap '24

Formulas for computing economies of labor-saving equipment. Mech Eng 47:59-62 Ja '25

Formulas for computing economies of labor-saving equipment. J. A. Shepard and G: E. Hageman. Mech Eng 47:403-8 sec 2 My '25; Same. Cassier's Ind Management 12:434-40+ S '25; Same. Eng & Contr (GC) 64: 1319-29 D 16 '25

General accounting as related to production control. P. Stotenbur. Cassier's Ind Management 11:70-1, 155 F 7, Mr 20 '24

Getting job costs without guesswork. W. N. Polakov. Ind Management 69:269-72 My '25

Hood rubber sales budgets. K. W. Stillman. Management & Adm 9:417-20 My '25

Improving cost accounting methods. H. G. Schnackel. Rubber Age 16:297-300+ F 10 '25

Increased production—decreased unemployment. Elec R (Lond) 95:831-2, 871 N 28-D 5 '24

Job costs for machine shops. J: C. McNeil. Am Mach 60:427-8 Mr 20 '24

Jobbing shop cost system. Mach 30:595-6, 621 Ap '24

Keeping track of your equipment. W. E. Gunnerson. il Factory 33:355-6+ S '24

Machine-hour rate the ideal foundation for gear estimates and costs. E. A. Kebler. Am Mach 63:612-13 O 15 '25

Method of expense control that paid. M. R. Lott. Ind Management 67:284-6 My '24

Methods of 42 manufacturers in distributing expenses to product. C: Reitell. Management & Adm 10:87-92 Ag '25

New type of material control record. R. E. Case. il Management & Adm 9:543-8 Je '25

Operating adjustments under standard costs. R. W. Darnell. Management & Adm 7:183-6 F '24

Our cost-finding methods keep revealing new savings. E. V. Connett, jr. Factory 32:42-4 Ja '24

Our largest savings come from prompt costs. H. S. Owen. Factory 35:199-200+ Ag '25

Overhead during low-volume production. A. F. Stock and J. M. Coffey. Paper Tr J 80: 61-4 My 14 '25

FACTORIES—Accounting—*Continued*
Picking the profitable products. R. Rosenthal. Management & Adm 9:429-31 My '25
Practical methods of analyzing loss in manufacturing profit. G. C. Harrison. Management & Adm 9:249-52 Mr '25
Production schedule for factory accounting work. D. Ross. Management & Adm 9:363-4 Ap '25
Profitable methods for the small factory. G. C. Brown. Management & Adm 7:683-8; 8:53-8 Je-Jl '24
Reasonable cost plan that safeguards profits. il System 47:474-6+ Ap '25
Tire factory manufacturing costs. J. J. Dawson. India Rubber W 70:436-8, 503-5, 576-8, 653-4 Ap-Jl '24
Use of interest in figuring production cost. J. P. Jordan. Management & Adm 9:145-8 F '25; Same. Paper Tr J 80:53-5 My 21 '25
We find a more direct way of getting costs. J: W. Schippmann. System 48:59-60+ Jl '25
What machinery is necessary for the management of industrial research. J. M. Weiss and C. R. Downs. Chem & Met Eng 30:549-54 Ap 7 '24
What most balance sheets don't tell. C. E. Woods. Comm & Fin 13:1601-2, 1649-50 Ag 27-S 3 '24

See also Chemical plants—Accounting; Garment factories—Accounting; Linoleum factories—Accounting; Power cost—Accounting

Cleaning

New wrinkle in factory window-cleaning. P. A. Paulson. il Factory 35:600+ O '25

Cleanliness

Importance of cleanliness. K. D. Hamilton. il Factory 35:557-61+ O '25
Keeping the factory clean. il Factory 32:328-9 Mr '24

Consolidation

Do branch plants pay? A. G. Anderson. Management & Adm 10:187-90 O '25

Electric equipment

Electrical devices in the path of power service. A. J. Whitcomb. il Ind Eng 83:71 F '25
Electricity in factories and workshops; H. M. electrical inspector's annual report. Elec R (Lond) 97:51 Jl 10 '25
Layout of overhead electrical circuits in industrial plant yards. J. E. Housley. il plans Ind Eng 83:358-62 Ag '25
Maintenance; gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 34:256-60+ F '25
Modern maintenance of plant and equipment. W: G. Ziegler. il Ind Management 67:224-9 Ap '24
Representative examples of changes in mechanical and electrical equipment. il Ind Eng 83:52-4+ F '25

Equipment

Adequate equipment is more vital to us than ever. Factory 34:260-3+ F '25
Attacking the utility sector of factory overhead. N. L. Sammis. Ind Management 70: 33-8 Jl '25
Keeping track of your equipment. W. E. Gunnerson. il Factory 33:355-6+ S '24
Maintenance tools and repair shop equipment. il Ind Eng 83:84-9+ F '25
Modern equipment brings low costs. Management & Adm 10:117-18 S '25
Profit-making factory equipment. B. A. Franklin. Management & Adm 9:149-52 F '25; Same. Brick & Clay Rec 66:987+ Je 23 '25
Profits from better equipment. W: R. Basset. Management & Adm 7:437-9 Ap '24
Representative examples of changes in mechanical and electrical equipment. il Ind Eng 83:52-4+ F '25
Ridding industry of its idle ships. R. B. Williams. Iron Tr R 77:430-1 Ag 20 '25
Trends and new practices in the use of mechanical equipment in the path of power service in industrial works. G. A. Van Brunt. il Ind Eng 82:61-8+; 83:55-64 F '24, F '25

See also Depreciation; Equipment industries; Labor saving devices

Heating and ventilation

Economical management of a factory's heating plant. C. A. Langdon. il Factory 32: 562+ Ap '24
Effective temperature applied to industrial ventilation problems. C. P. Yaglogiou and W. E. Miller. charts Am Soc Heat & V E J 30:515-39 Jl '24
Electrically heating an industrial plant. P. H. Falter. il Elec W 83:145 Ja 19 '24; Same. Power 59:57-8 Ja 8 '24
Factory heating and ventilation. A. G. King. plans Dom Eng 108:20-3 Jl 19; 21-2+ Ag 2; 31-3+ Ag 30; 109:29-31+ O 25 '24
Good factory air pays in increased output. A. G. Anderson. Management & Adm 9: 439-42, 531-4 My-Je '25
Industrial lighting and industrial ventilation; abstract of papers read at the Baltimore safety conference. Safety Eng 49:213-14 My '25
Industrial ventilation as applied to harmful dusts, gases, and fumes. J: Roach. Monthly Labor R 21:6-12 Jl '25; Same. Safety Eng 50:52-6 Jl '25; Same. Nation's Health 7: 609-11 S '25
Industrial ventilation in theory and practice. L. Greenburg. Nat Safety N 11:27-9 Mr '25; Abstract. Power Pl Eng 29:401 Ap 1 '25
Installation of fans. B. Klugkist. il Factory 35:288+ Ag '25
It saves space and provides better ventilation. W. J. Evans. System 47:230+ F '25
Jointless heating system for a modern manufacturing plant. H. S. Arnold. il Sanitary & Heat Eng 103:151-2 Mr 6 '25; Same. Heat & Ven 22:54-5+ Ap '25
Modern maintenance of plant and equipment. W: G. Ziegler. il Ind Management 68:244-9 O '24
Opening windows by pressing buttons. B. S. Havens. il Factory 35:106+ Jl '25
Power plant of the Detroit lubricator company. C. K. Little. il Power 59:316-17 F 26 '24
Removing abnoxious fumes, gases and vapors. C: L. Hubbard. il diags Ind Eng 83:276-80+ Je '25
Silk stockings, sanitation and safety; Phoenix hosiery company. J: M. Sandel. il Nat Safety N 9:15-17 Mr '24
Ventilating and heating with the same apparatus. J. D. Wallace. il System 46:212-13 Ag '24

See also Flour mills—Heating and ventilation; Paper mills—Heating and ventilation; Temperature—Physiological effect; Textile mills—Heating and ventilation

Layout

Controlling the flow of package products by materials handling equipment; assured savings in the B. T. Babbitt plant. J. Mendleson. il plans Management & Adm 7:545-50 My '24
Extension to textile mill at Tallassee, Ala. il Eng N 94:202-3 Ja 29 '25
Factors in industrial organisation. R: Wendorby. Cassier's Ind Management 12:257-9 Ap '25
Four times the production with no more space; Bosch magneto corporation. A. Murray. il Factory 35:533-5+ O '25
Handling cost reduced by rearranging stock room. il diag Iron Age 115:1056-7 Ap 9 '25
How a new layout saved 40% of our payroll. W. S. Perry. System 47:384+ Mr '25
Large-plant layout with angular feeders. il plans Am Mach 63:62 Jl 9 '25
Layout and design factors in a tobacco stripping plant. C. C. Muhs. Eng N 92:717-18 Ap 24 '24

FACTORIES—Layout—*Continued*

Layout and design of chemical plants on a philosophical basis. C. Field. diags plan Chem & Met Eng 32:794-9 O '25

New lime-burning plant of Union carbide company. H. L. Noyes. il diags Eng N 93:546-8 O 2 '24

New plant and its layout; western works of Sullivan machinery co. il Am Mach 61:722-3 N 6 '24

Our new plant saves 10% of our production costs; Zinke-Roberts company. W. C. Roberts. System 47:662+ My '25

Planning and building a large motor vehicle plant. E. M. Chance. il diags Eng N 94:344-9 F 26 '25

Saving space in a steel foundry; a photo-story of the Pettibone Mulliken plant. il plans Iron Age 116:795-9 S 24 '25

Special design for hosiery mill on Pacific coast. J: R. Poteat. il Eng N 93:707-8 O 30 '24

Libraries

See Business libraries; Factory libraries

Lighting

Automobile body plant lighting. J. M. Ketch, H. J. Thompson and E. F. Labadie. Am Mach 63:617-20 O 15 '25

Better illumination without more lamps. W. Wendelken. il Ind Eng 82:225-8 My '24

Better lighting stops the invisible leaks in our plant. System 47:662+ My '25

By giving up localized lighting we increased production 12% to 15%. R. L. Zahour. il Factory 35:100+ Jl '25

Code of lighting: factories. U S Bur Labor Statistics Bul 331:1-29 '23

Does good lighting pay its way in industrial plants? il Factory 34:932-3 Je '25

Effect of brightness on the precision of visually controlled operations. P. W. Cobb and F. K. Moss. diag J Fr Inst 199:507-12 Ap '25; Abstract. Am Inst E E J 44:425 Ap '25

Electrical construction. E. E. Browne. diags J Elec 52:20-2 Ja 1 '24

Factories and workshops report. Gas J (Lond) 171:169-70 Jl 15 '25

Features that distinguish a good lighting system. R. A. Palmer. il diag Ind Eng 83:476-8+ O '25

Figuring light cost in increased production instead of watts consumed. R. J. Waldo. il Factory 32:816-18 Je '24

Getting the long-time dividend from factory windows. K. D. Hamilton. il Factory 35:42-6+ Jl '25

Getting the most out of factory lighting. C. C. Hermann. Factory 31:844+ D '23

How good lighting benefits the shop. A. G. Anderson. il Management & Adm 10:277-80 N '25

How one factory has benefited by revamping an obsolete lighting system. J. J. McLaughlin. il plan Ind Eng 81:571-4 D '23

How we improved our lighting. R. F. Johnstone. System 47:800+ Je '25

Illumination and industrial efficiency. S. DeHart. il chart Ind Management 69:108-11 F '25

Illumination as a factor in shop morale and efficiency. il Ry R 74:815-18 My 3 '24

Illumination of factories. L. Gaster. Illum Engr 17:102 Je '24

Improvement of industrial lighting; report of committee of Pacific coast electrical association. J Elec 52:409-11 Je 1 '24

Increasing production by good lighting. F. L. Prentiss. diags Iron Age 113:1343-4 My 8 '24

Industrial illumination. C. T. Payn. diags Elec R (Lond) 97:204-6 Ag 7 '25

Industrial lighting. C: J. Stahl. il Blast F & Steel Pl 13:134-6 Mr '25; Same. Power Pl Eng 29:351 Mr 15 '25

Industrial lighting and industrial ventilation; abstract of papers read at the Baltimore safety conference. Safety Eng 49:213-14 My '25

Industrial lighting campaign in Boston. il Elec W 86:158 Jl 25 '25

Industrial lighting equipment. il Ind Eng 83: 107-9 F '25

International committee on lighting in factories and schools. Gas J (Lond) 169:538-9 Mr 4 '25

Leistungssteigerung durch verstärkung der beleuchtung. W. Ruffer. Elektrotech Zeit 46:466-7, 1162-3 Mr 26, Jl 30 '25

Light and work. M. Luckiesh. 296p Van Nostrand '24; Review. Nation's Health 7: 198-200 Mr '25

Light, sight, and safety. R. E. Simpson. Safety Eng 48:77-8 Ag '24

Light—the big factor in safety. L. S. Graham. Am Mach 60:466 Mr 27 '24

Lighting in the industries. P. W. Cobb. bibliog J Ind Hygiene 7:185-98 My '25

Lighting problems in factories. B. Jones. Eng & Contr (Bldgs) 61:1191-2 My 28 '24

Lighting system, like machinery, must be kept in good condition. il chart Automotive Ind 53:512-16 S 24 '25

Lighting's new challenge to management. il Factory 35:378-81+, 540-1 S-O '25

Local lighting applications. il Am Inst E E J 43:989-90 O '24

Meaning of speed of vision. P. W. Cobb. Illum Eng Soc 20:253-66; Discussion. 266-9 Mr '25

Modern factory lighting. W. F. Ballinger. il Eng & Contr (Bldgs) 61:1173-8 My 28 '24; Excerpts. Ind Management 67:250-4 Ap '24

Modern maintenance of plant and equipment. W: G. Ziegler. il Ind Management 67:287-93 My '24

More effective lighting often comes from fewer lights. R. L. Zahour. il Factory 35: 592+ O '25

National plan for an industrial lighting activity. J. F. Becker. N E L A Bul 12:442-5 Jl '25

Obsolete and modern lighting. W. E. Bush. il Electrician 91:696 D 21 '23

Practical pointers on better illumination in industrial plants. R. A. Palmer. il Ind Eng 83:363-5+ Ag '25

Proper painting as an aid to interior illumination. W. Sturrock. il diag Nat Safety N 9: 31-3 Je '24; Same. Nation's Health 6:525-7+ Ag '24

Relation of illumination to production. D. P. Hess and W. Harrison. il Illum Eng Soc 18: 787-94 N '23; Same. Elec W 82:703-6 O 6 '23; Same. Ind Eng 81:485-8 O '23; Discussion. Illum Eng Soc 18:794-800 N '23

Safety lighting in industry. O. C. Holleran. il Nation's Health 7:410-11 Je '25

Safety through good lighting. il Safety Eng 49:248-51 Je '25

68% more light from the same equipment. D. W. Atwater. Factory 33:665-6+ N '24

Some factors in good industrial lighting. D. R. Wilson. Illum Engr 17:153-4 O '24

Some observations on industrial lighting. D. R. Wilson. bibliog J Ind Hygiene 5:371-81 F '24

Steel sash—more light. R. S. Bishop. il Management & Adm 9:27-8 Ja '25

28 cases where good lighting paid. R. J. Waldo. il Management & Adm 10:63-6 Ag '25

Unit costs of industrial lighting. D. H. Tuck. il plan Illum Eng Soc 19:411-19; Discussion. 419-23 My '24; Same. Ind Eng 82:329-32+ Jl '24

"We could pay the war debt in one year." M. Luckiesh. il Factory 34:28-9 Ja '25

What is good lighting and how can it be obtained? Power Pl Eng 29:560 My 15 '25

What we found out about higher illumination. D. P. Hess. il System 45:222+ F '24

White motor company improves illumination. H: Hylkema and H. T. Spaulding. il Elec W 83:1177-81 Je 7 '24

Windows: tools of production. K. D. Hamilton. il Factory 34:920-4+ Je '25

See also Foundries—Lighting; Machine shops—Lighting; Silk mills—Lighting; Steel works—Lighting; Textile mills—Lighting

FACTORIES—*Continued*

Location

Analyzing the problem of plant location. H. R. Parker and R. L. Kraft. il Ind Management 79:301-4 N '25

Choice of an industrial building site. M. M. Osborne. Arch Forum 39:87-8 S '23; Same. Eng & Contr (Bldgs) 61:881-3 Ap 23 '24

Decentralization of industry through electric power may inaugurate a new epoch. Manuf Rec 86:51-2 O 23 '24

Design and maintenance of factory buildings. H. Pearman. maps Cassier's Ind Management 11:349-50+ Jl '24

Economic factors in industrial plant location. P. F. Walker. Management & Adm 8:259-64 S '24

Factor of plant location in automobile production. J: A. Piquet. il Ind Management 68:297-304 N '24

Factors in industrial plant location. P. F. Walker. map Management & Adm 8:637-42 D '24

Fundamental importance of factory location. T. W. Fletcher. Manuf Rec 86:93-4 D 4 '24

Garden spots of industry. J: A. Piquet. il Ind Management 69:145-51 Mr '25

Henry Ford says—farmer-workmen will build automobile of the future. D. Pearson. il Automotive Ind 51:389-92 Ag 28 '24

How would you pick a factory location? M. G. Farrell. il map Factory 33:336-8+ S '24

Industry gets the wanderlust. A. P. Dennis. Nation's Business 13:42-4 My '25

Industry's partner—the community. J: A. Piquet. il Ind Management 70:183-7 S '25

Influence of cheap power on factory location and on farming. E. S. Bradford. maps Ann Am Acad 118:91-5 Mr '25

Is the big city doomed as an industrial center? J: A. Piquet. il Ind Management 68: 139-44 S '24

Location of chemical plants. W. H. Kiler. Chem & Met Eng 32:809 O '25

Planning and building a large motor vehicle plant. E. M. Chance. il diags Eng N 94:344-9 F 26 '25

Relation of the Ohio-Mississippi waterways to production and industrial development. H. B. Luther. Am Soc C E Pro 51:1659-62 O '25

Scientific versus haphazard plant location. J: A. Piquet. il Ind Management 69:330-5 Je '25

Solving a factory location problem. A. G. Anderson. Ind Management 70:21-4 Jl '25; Same. Eng & Contr (Bldgs) 64:487-90 Ag 26 '25

Taking advantage of complementary plants. J: A. Piquet. Ind Management 70:313-16 N '25

Tax-reducing methods in factory operation. L. Childs. Factory 32:266+ F '24

Watch for objections that are only excuses; objection to products made in small towns. Ptr Ink 131:89-90 Je 18 '25

Where should the plant be located? il Chem & Met Eng 32:47 Ja 12 '25

Why and how of industrial relocation. J: A. Piquet. il map Ind Management 70:242-7 O '25

See also Factories—Consolidation

Lunch rooms

See Lunch rooms and cafeterias, Employees'

Maintenance and repair

Adequate and economical plant maintenance. N. L. Sammis. Ind Management 70:194-7 O '25

Analysis of the work and responsibilities of maintenance engineers; with comments by readers. D. H. Braymer. il Ind Eng 82:10-20+ Ja '24

Budgeting repair and maintenance expenses. W. F. Woodbury. il Ind Eng 82:312-16+ Jl '24

Distinction between maintenance and repairs on industrial equipment. M. C. Cockshott. Ind Eng 82:436-7+ S '24

Factory maintenance and repairs. E. E. Remington. Soc Auto Eng J 15:389-90 N '24

Maintenance; gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 33:332-5+, 498-501+, 645-9+, 790-4+; 34:56-60+, 256-60+, 419-25+, 586-91+, 756-60+; 35:201-6+, 557-61+, 742-4+, 912-16+ S '24-My, Ag, O-D '25

Maintenance of plant equipment. W. L. Hitt. chart Management & Adm 8:43-5 Jl '24

Maintenance tools and repair shop equipment. il Ind Eng 83:84-9+ F '25

Modern maintenace of plant and equipment. W: G. Ziegler. il chart Ind Management 66: 267-76, 347-53; 67:24-31, 99-105, 167-74, 224-9, 287-93, 368-74; 68:6-13, 185-90, 244-9 N '23-Jl, S-O '24

Organization of maintenance division. F: A. Waldron. Management & Adm 8:39-42 Jl '24

Organizing for plant maintenance work. L. A. Blackburn. chart Soc Auto Eng J 15: 440-4+ N '24; Abstract. Automotive Ind 51: 762-3 O 30 '24; Discussion. Soc Auto Eng J 16:527 My '25

Planning repair work. L. W. Conant. Management & Adm 8:651 D '24

Progressive maintenance. F. M. Sharp. Soc Auto Eng J 17:278-9 S '25

Responsibilities and activities of the maintenance department in industrial safety. H. W. Donald. il Ind Eng 82:321-5 Jl '24

Simple method for dispatching maintenance jobs. A. F. Graves. il Factory 35:384-6+ S '25

Standardization of painting practice. R. C. Sheeler. Ind Management 68:25-8 Jl '24

We cut maintenance costs by knowing our plant. E. O. Carichner. System 47:384+ Mr '25

What maintenance includes and how it is handled in the Groton and Cortland (N.Y.) plants of the Corona typewriter company. C. D. Corwin. il Ind Eng 83:50-1+ F '25

See also Paint, Protective; Painting, Industrial

Management

See Factory management

Printing

How to cut the factory printing bill. A. J. Jacquot, jr. il Factory 34:269-71, 430-1+ F-Mr '25; Same (pt. 1). Inland Ptr 74:919-21 Mr '25

Protection

See Watchmen

Visitors

See Factory exhibits and demonstrations; Visitors

Water supply

See Water supply for factories

Yards

Equipment and maintenance in the plant yard. W: G. Ziegler and M: W. Potts. il Ind Management 68:287-93 N '24

FACTORY costs

British and foreign engineering costs. Engineering 117:374-5 Mr 21 '24

Cost of making special apparatus. C. H. Roth. Elec W 86:39-40 Jl 4 '25

Division of manufacturing income. N. Sargent. Am Ind 25:26-7 Je '25

Do branch plants pay? A. G. Anderson. Management & Adm 10:187-90 O '25

General and local taxation in relation to engineering costs. Engineering 117:340-1 Mr 14 '24

Maintenance and operating costs in the manufacture of prepared roofing. J. L. M. Yardley. il Ind Eng 82:566-70+ D '24

Method of finding minimum-cost quantity in manufacturing. R. C. Davis. Management & Adm 9:353-6 Ap '25

Power a small percentage of manufacturing cost. Elec W 86:472 S 5 '25

FACTORY costs—*Continued*
Practical lot quantity formula. Management & Adm 9:565-6 Je '25
Production costs in the engineering industry. Engineering 117:273-4 F 29 '24; Discussion. A. S. Murdoch. 117:397 Mr 28 '24
Reduction of manufacturing costs. Engineering 118:419-20 S 19 '24

See also Labor cost; Machine shops—Costs; Power cost

FACTORY exhibits and demonstrations
Bringing your customers to your plant. A. J. Hain. il Iron Tr R 77:560-2 S 3 '25
National machinery co. exhibits forging and bolt machinery. Iron Age 116:627-8 S 3 '25

FACTORY fire brigades
Organizing private fire brigades. Safety Eng 48:110-13 S '24

FACTORY floors. See Floors

FACTORY inspection
Factory and mine inspection. Published in monthly numbers of Monthly labor review
Factory inspection in Great Britain in 1922. Int Labour R 8:914-20 D '23
Factory inspection in Norway in 1922. Int Labour R 9:275-8 F '24
Federal factory inspection in Switzerland in 1920. Int Labour R 9:270-5 F '24
Personnel equipment in factory inspection. M. Anderson. Ann Am Acad 113:321-8 My '24
Reports of German factory inspectors for 1922. Monthly Labor R 17:1263-74 D '23
Some problems of factory inspection. Int Labour R 9:372-86 Mr '24

FACTORY laws
Factories bill, 1924. Elec R (Lond) 95:592-3, 631-2 O 17-24 '24
Factory and shop legislation in Australia. D. G. Robertson. J Ind Hygiene 7:491-504 N '25

See also Child labor; Employers' liability; Factory inspection; Hours of labor; Industrial laws and legislation; Labor laws and legislation; Lighting—Laws and regulations; Minimum wage; Woman—Employment

FACTORY libraries
Putting the plant library on wheels. il Factory 32:320 Mr '24

See also Business libraries; Technical libraries

FACTORY management
Administration of industrial enterprises. E: D. Jones. rev. and enl. ed. 618p Longmans '25
American manufacturing management sure of adoption in Europe. Management & Adm 10: 5-6 Jl '25
L'application de la méthode Taylor, dans une usine de constructions mécaniques de Limoges. R. H. Bender. Génie Civil 83:491-5 N 17 '23
Die bewirtschaftung der hilfsstoffe. O: Klein. Zeit Ver Deutsch Ing 68:562-5 My 31 '24
Big-shop methods pay in a small shop. M. Alden. il Factory 34:750-2+ My '25
Brains of production. C: B. Gordy. Soc Auto Eng J 16:271-2 Mr '25
Budget methods of Metal product company. Iron Age 114:910-12 O 9 '24
Building production schedules from sales, costs and profit analyses. G. C. Harrison. Management & Adm 9:461-4 My '25
Building tractors under scientific management. G: D. Babcock. il Management & Adm 7:647-52; 8:19-26, 141-6, 265-70, 377-82, 497-502 Je-N '24
Business memoirs of Harvey S. Firestone. S: Crowther. System 48:399-402+ O '25
Capitalizing the advantages of the small factory. D. S. Cole. Ind Management 69:208-12, 291-5, 360-4; 70:40-5, 265-9 Ap-Jl, N '25
Certain limitations in the application of scientific management. Harvard Business R 4:106-11 O '25
Control of idleness in industry. W. L. Conrad. Mech Eng 46:402-4 Jl '24; Same cond. Cassier's Ind Management 11:291-2, 321 My 29-Je '24; Abstract. Iron Age 113:1783-4 Je 19 '24
Control that makes possible our 30-day turn. R. J. Reiser. il Factory 33:786-7+; 34:62-5 D '24-Ja '25
Control through organization and budgets. T: B. Fordham and E: H. Tingley. Management & Adm 6:719-24; 7:57-62, 205-8, 291-4 D '23-Mr '24
Co-ordinated system of planning, routing, and cost accounting. F: A. Waldron. flow sheet charts Management & Adm 7:39-43, 173-7, 295-7, 427-30 Ja-Ap '24
Création, organisation et direction des usines. E. Mattern. 306p Dunod, Paris '25
Deserving a manufacturing profit. B. A. Franklin. Management & Adm 9:329-32 Ap '25
Design and maintenance of factory buildings. H. Pearman. Ind Management (Lond) 10: 239-41 N 1 '23
Development of a modern hosiery plant. S. E. Thompson and H. T. Rollins. charts Mech Eng 46:752-64 pt 2 N '24; Excerpts. Textile World 67:1389+ F 21 '25
Effecting economies and bettering practices. F. W. Parsons. Gas Age 53:875-6+ Je 21 '24
Effecting economies by regulating work flow. A. Whitehead. Cassier's Ind Management 11:35-7, 98-9, 183-5, 263-4, 407-8, 497-8; 12: 191-2, 441-2 Ja 24, F 21, Ap 3, My 15, S, D '24, Mr, S '25
Engineer's field in industrial economics. E. Szepesi. il charts Mech Eng 46:841-8 pt 2 N '24; Discussion. 47:274-6 Ap '25
Enter order—when will you ship? Lodge and Shipley methods for controlling production. H. S. Riggs. Management & Adm 8:643-5; 9:253-7 D '24, Mr '25
Essentials of successful management. W. Attwood. Cassier's Ind Management 11:11-12 Ja 10 '24
Executive control of future results. W. Clark. charts Management & Adm 7:179-82 F '24
Extreme variety versus standardization. J: H. Van Deventer. il diag plan Ind Management 66:253-64; 67:36-46, 81-8 D '23-F '24
Factors in industrial organisation. R: Wendorby. Cassier's Ind Management 12:257-9, 482-3 Ap, O '25
Factory administration in India. S: J. Hopper. Mech Eng 47:859-60 O '25
Factory lay-out, planning and progress. W. J. Hiscox. 184p Pitman '24
Factory losses and wastes. N. L. Sammis. Ind Management 69:321-9 Je '25
Factory management. H: P. Dutton. 329p Macmillan '24
Factory management's challenge to general management. W. A. Layman. Factory 34:747-50 My '25
Factory manager's part in shaping sales policies. M. K. Powers. Factory 33:525-6+ O '24
Factory methods for the small manufacturing plant. J. E. Dykstra. Am Mach 63: 569-72 O 8 '25
Factory organization and administration. H. Diemer. 4th ed. 398p [bibliog. p. 374-89] McGraw-Hill '25
Factory overhead. F. E. Webner. 456p White press co., Washington, D.C. '24
15 steps that cut our costs 30%. G. Parrish. il Factory 33:513-15+ O '24
Foreman and industrial service. H. Diemer and others, eds. 75p La Salle extension univ., Chicago '22
Four times the production with no more space; Bosch magneto corporation. A. Murray. il Factory 35:533-5+ O '25
Friction in the factory organisation. Cassier's Ind Management 11:347-8 Jl '24
Die grundlagen zur einführung rationeller methoden in der fabrikwirtschaft. A. Schilling. diags Zeit Ver Deutsch Ing 69: 1133-7 Ag 29 '25

FACTORY management—*Continued*
How our factory works hand in hand with our sales department; Truscon steel company. T. H. Kane. il Factory 34:581-4 Ap '25
How we get uniform output from widely separated plants; Goodyear tire and rubber company. P. W. Litchfield. il Factory 33:23-5+ Jl '24; Abstract. India Rubber W 73:37-8 O '25
How we get up-to-the-minute production control. C. H. Smith. System 45:336-8+ Mr '24
How we make it easy to apply the ounce of prevention in management. A. B. Nevins. il Factory 32:813-16+ Je '24
Inside a German factory. C. W. Goerling. Factory 33:642-4+ N '24
Intangible assets of the cement manufacturer. W. G. H. Cam. Concrete (cement mill sec) 26:7-10 Ja '25
Maintaining profit with reduced prices. E. A. Munschauer. Management & Adm 7:401-4 Ap '24
Making a success of the small manufacturing business. C. U. Carpenter. Management & Adm 10:125-8, 195-8, 287-9 S-N '25
Management difficulties in small factories, and their solution. H. W. Ross. Cassier's Ind Management 11:207-8, 377-8, 467-8+; 12:162-3 Ap 17, Ag, N '24, F '25
Management engineering; the design and organization of industrial plants. P. F. Walker. 359p McGraw-Hill '24
Management in the clothing industry. S. E. Thompson and W. E. Freeland. Management & Adm 8:289-94 S '24
Management's handbook. L. P. Alford. 1607p Ronald press '24
Management's progress toward new standards. Factory 34:21-5 Ja '25
Manufacturing policies that have offset Europe's cheap labor; Toy tinkers, incorporated. il Factory 33:779-81+ D '24
Manufacturing procedure simplified. J: R. Bangs. Management & Adm 10:149-52, 213-16 S-O '25
Means of reducing costs discussed at the national convention of the Society of industrial engineers. Iron Age 113:1437-8 My 15 '24
Mechanical engineering of management in the metal-working trades. R. T. Kent. Am Mach 59:839-40 D 6 '23
Methods to keep inventories down to a minimum. W. J. Graham. Management & Adm 9:471-4 My '25
Need for modern management in small factories. G. C. Brown. Am Management R 13:5-7 Jl '24
No safe short cut to high production. H: H. Farquhar. Am Mach 61:727-9 N 6 '24; Same. Automotive Ind 51:970-2 D 4 '24
Nos essais d'organisation des fabrications à la Fabrique nationale d'armes d'Herstal. Deletaille. Soc Ing Civils Bul 76:1125-8 O '23
Now that we face prosperity—how does it affect factory management? Factory 34: 253-5 F '25
Organization and budgetary control in manufacturing. T: B. Fordham and E: H. Tingley. 233p Ronald press '24
Organization and management in the flour milling industry. E. L. Pearson. 243p Pitman '25
Organizing a business for cost reduction. J: H. Van Deventer. Ind Management 68:193-7 O '24
Our war against time. W: Cordes. il Factory 35:39-42+ Jl '25
Planned control in manufacturing. W: O. Lichtner. 329p Ronald press '24
Planning and production control; the committee on industrial planning of the Boston chamber of commerce. Taylor Soc Bul 9: 271-83 D '24
Plant engineer. J. B. Calkins. Sibley J 37: 224-5+ D '23
Plea for better management. C: F. Loew. Ind Management 66:353-4 D '23
Practical advantages of mass management. D. S. Kimball. diags Management & Adm 6: 743-9; 7:45-9 D '23-Ja '24
Practical ways to cut costs. il Factory 35: 566-7 O '25
Principles of management. G: H. Shepard. 327p Purdue univ., Lafayette, Ind. '24
Production control method of the Tabor manufacturing company. J: W. Carter. Ann Am Acad 119:92-6 My '25
Production control; the Taylor system in Holt management. G: D. Babcock. Taylor Soc Bul 9:260-70 D '24; Same. Am Mach 61:963-70 D 18 '24; Same. Mech Eng 47:243-8 Ap '25; Excerpts. Ry R 74:1000-5 D 20 '24
Production controlled by estimating sales; master planning methods of Walworth manufacturing company. J. H. Barber. Iron Age 113:1287+ My 1 '24
Profit-making management in the factory. B. A. Franklin. Management & Adm 9:21-6 Ja '25; Same. Paper Tr J 80:59-62+ Mr 19 '25
Profitable methods for the small factory; organization of departments and functions. G. C. Brown. charts Management & Adm 7: 161-7, 305-10, 431-6, 567-72, 683-8; 8:53-8 F-Jl '24
Quantity production was impossible, but we cut costs without it. H. J. Coane. Factory 34:773-4 My '25
Rational works management in factories. J: A. Davenport and J. I. Emery. Ind Management (Lond) 9:259-60, 291-4, 323-5, 355-6, 387-9; 10:3-4, 37-40, 119-20, 181-2, 270-2, 326-7; [cont. as] Cassier's Ind Management 11: 3-5, 179-81 My 3-Jl 26, Ag 23-S 6, O 4, N 15, D 13 '23, Ja 10, Ap 3 '24
Reducing production costs. H. Varley. Cassier's Ind Management 11:437-40 O '24
Results of scientific management from the viewpoint of corporate control. M. M. Baker. Management & Adm 7:645-6 Je '24
Round table promotes efficiency in metal furniture shop. E. C. Barringer. il Iron Tr R 76:1637-41 Je 25 '25
Savings through management in rubber industry. S. E. Thompson and W. E. Freeland. Management & Adm 9:447-50 My '25
Shop management in pioneer days. E. W. Rice, jr. Management & Adm 9:217-18 Mr '25
Should foremen supervise jobs, rather than processes? J. V. Carlson. il Factory 35: 373-4 S '25
Signals in the shop to speed production. C. J. Priebe. il Am Mach 61:731-4 N 6 '24
Simplified factory accounting and routing. F: A. Waldron. 113p Ronald press '25
Six ways to eliminate waste. R. M. Hudson. Management & Adm 10:71-4 Ag '25; Same. Paper Tr J 81:55-8 Ag 27 '25
Skillful use of management tools. Management & Adm 10:249-50 N '25
Southern furniture plants apply modern management with success. C: F. Scribner. Management & Adm 9:521-4; 10:83-6, 145-8, 217-20, 267-70, 349-52 Je, Ag-D '25
Statistical summary and abstract; practice in cost organization and in the executive utilization of cost data obtained from 160 American industrial concerns. Ind Management 68:197-220 O '24
Taking the guesswork out of business. W: R. Basset. Forbes 14:659-60 S 1 '24
Taschenbuch für den fabrikbetrieb. H. Dubbel. ed. 883p J. Springer, Berlin '23
Utilization and prevention of waste. C. B. Auel. Soc Auto Eng J 15:407-11 N '24; Same cond. Am Mach 61:681-4 O 30 '24; Abstract. Automotive Ind 51:761 O 30 '24; Discussion. Soc Auto Eng J 15:383-4; 16:223-5 N '24, F '25
Waste elimination; plant program with far-reaching results. H. S. Firestone. il Factory 35:35-8 Jl '25
We find out how to speed-up production 50%. E. Lilly. il System 48:545-8+ N '25
What we did to double production. O. Earhart. il charts diag Management Eng 4:217-22 Ap '23; Same. Ind Management (Lond) 9:270-2, 297-8 My 3-17 '23; Abstract. Monthly Labor R 18:334-6 F '24
What we learned from a graveyard of ideas; importance of human factor. R. C. Kelley. Factory 34:264-5+ F '25

FACTORY management—*Continued*
When Germany cut the price in two; the Goderich organ company. C. M. Bezeau. Factory 34:605+ Ap '25
When the busy season comes in summer. il Factory 34:939-40 Je '25
Why cost figures changed our 165-year-old policies. E. S. Phillips. Factory 33:639-41 N '24
Why I always ask; what will it do to our capital ratio? W. A. Layman. System 48: 153-8 Ag '25
Workable production control system: Edison phonograph works. E: Davis. il Am Mach 60:753-7, 835-8, 911-14; 61:7-10 My 22, Je 5, 19, Jl 3 '24
Workshop routine. W. J. Hiscox. 159p Chapman & Hall, ltd., London '23

See also Assembling methods; Automobile factories—Management; Bleacheries—Management; Bonus system; Branch factories; Brick works—Management; Budget, Business; Bulletin boards; Chemical plants—Management; Cleaning; Committees (in management); Control boards; Conveying machinery; Cost accounting; Cotton mills—Management; Dental service, Industrial; Drafting room management; Efficiency, Industrial; Employees; Employees, Transportation of; Employees' representation in management; Employment management; Employment systems; Engineering departments; Factories—Cleanliness; Factories—Equipment; Factories—Maintenance and repair; Factory costs; Factory libraries; Factory transportation; Farms, Industrial; Foremen; Gantt charts; Hosiery mills—Management; Idleness, Industrial; Industrial management; Inspection; Inventories; Job analysis; Knitting mills—Management; Machine shop management; Mechanical handling; Medical service, Industrial; Metal cleaning; Motion study; Moving; Office management; Organization in industry; Overhead expense; Packing for shipment; Paper mills—Management; Payrolls; Piece work; Planning; Production and sales, Coordination of; Progress records; Purchasing; Quality of products; Quantities (in production); Records; Repair shops; Repairing; Routing systems; Rubber factories—Management; Safety departments; Safety devices and measures; Sales departments; Salvage (waste, etc.); Schedules; Scrap material; Service (in industry); Shipment of goods; Shop management; Simplification in industry; Steel works—Management; Stores systems; Suggestion systems; Textile mills—Management; Time keeping; Time study; Vacations; Visitors; Wage payment plans; Waste; Watchmen; Welfare work in industry

Quality control

Measurement of the quality of product. G. S. Radford. Mech Eng 46:546-7; Discussion. 547 S '24
Quality habits that were transplanted 3000 miles. L. J. Belnap. Management & Adm 7:167-8 F '24

Study and teaching

Training the planning staff; methods used by Canadian consolidated rubber company. D. Ross-Ross. chart Management & Adm 9: 375-8 Ap '25

FACTORY nurseries. See Day nurseries, Factory

FACTORY sanitation
Importance of cleanliness. K. D. Hamilton. il Factory 35:557-61+ O '25
Modern maintenance of plant and equipment. W: G. Ziegler. il Ind Management 67:99-105, 368-74 F, Je '24; Abstract (pt. 2). Nation's Health 6:713-14 O '24

See also Factories—Heating and ventilation; Lavatories

FACTORY transportation
Around the shop with the electric mule. H. S. Riggs. il diags Mach 30:438-41 F '24
General Electric transportation at the Schenectady works. G. Bartlett. il Management & Adm 10:191-4 O '25
How we reduced interplant handling costs $10,000 a year. T. J. Reilly. il Factory 34:828+ My '25
Improve shop transportation; the Walworth mfg. co., Boston. H. R. Simonds. il Foundry 52:920-3 D 1 '24
Industrial transportation. R. B. Williams. il Blast F & Steel Pl 12:456-9 O '24
Machine-shop transportation with industrial electric trucks. H. J. Payne. il Am Mach 62:803-4 My 21 '25
Material-handling pay-roll reduced 75%. M. C. Maxwell. il Factory 34:594-8 Ap '25
Measuring the efficiency of shop trucks. S. M. Lowry. Management & Adm 8:279-84 S '24
My problem of moving delicate parts. A. B. Schupp. il Factory 34:265-8 F '25; Same. Brass W 21:427-30 D '25
Outside haulage and handling. Factory 35:246-7 Ag '25
Reducing the cost of shop trucking. R. T. Kent. diags Management & Adm 7:317-22 Mr '24
Shop transportation economics; Westinghouse methods and results. S. M. Lowry. il chart Management & Adm 7:533-8 My '24
Simpler methods of moving materials. Published in monthly numbers of Factory for 1924
Survey of representative materials handling practice in modern plants. M: W. Potts. il (supp) Ind Management 70:66-121 Ag '25
Train-despatching in an automotive-parts shop. R. S. Spencer. il Am Mach 60:945-6 Je 26 '24
Westinghouse shop express system. S. M. Lowry. il plan Management & Adm 10:7-10, 75-8 Jl-Ag '25
What can the older plant do about new methods of handling. J: F. Tinsley. il Factory 35:52-5 Jl '25

See also Electric trucks, Industrial; Handling of materials; Mechanical handling; Railroads, Industrial; Tractors, Industrial; Trucks

Cost

21 material-handling installations which have saved money; trucks, tractors and cupola chargers. G: E. Hagemann. Management & Adm 9:357-9 Ap '25

FACTORY visitors. See Factory exhibits and demonstrations; Visitors

FACTORY waste. See Trade waste

FADE-OMETER. See Dyes, Fastness of

FADING. See Dyes, Fastness of

FADING (radio signals). See Radio signals

FAIRBAIRN, William, 1789-1874
Famous machinists of history. H. H. Manchester. Am Mach 61:690 O 30 '24

FAIRS
Make your bazar pay. E. R. Burt. 157p Harper '25
Milan's great sample fair more successful each year. C. Zimpel. il Dun's Int R 46: 57-8 N '25

See also Exhibitions

FAJARDO sugar company of Porto Rico
Annual report to the stockholders for 1924. Comm & Fin Chr 119:2422 N 22 '24; Same. Annalist 24:577 D 1 '24
Fajardo sugar stock. Moody's Inv Serv 16: 424 N 20 '24

FALK, Otto H.
Little journeys to big men. H. Almert. por Prof Eng 10:8+ F '25

FALK corporation
Keeping tabs on the apprentice. H. A. Frommelt. Iron Age 116:208-9 Jl 23 '25
Training course develops power plant personnel. H. A. Frommelt. Power Pl Eng 29:549-50 My 15 '25

FALL, Albert B.
Affidavit, filed in Toronto by United States government oil counsel, alleges $90,000 Liberty bonds were traced to Albert B. Fall, in oil dividends. Comm & Fin Chr 119:1586-7 O 4 '24

FALLING bodies
Resistance of air to falling spheres. R. G. Lunnon. Philos Mag 6th ser 47:173-82 Ja '24

FAMILY
Familial differential fecundity. H. Hart. Am Statis Assn J 20:25-30 Mr '25
Is the family of five typical? P. H. Douglas. Am Statis Assn J 19:314-28 S '24
See also Birth rate

FAMILY allowances
Family allowance system. J. H. Richardson. Econ J 34:373-86 S '24
Family allowance system as a protector of children. P. H. Douglas. Ann Am Acad 121:16-24 S '25
Family allowances in French industry. R. Picard. Int Labour R 9:161-76 F '24
Family allowances: remuneration of labour according to need. 186p 60c International labour office, Geneva '24
Family-wage system in Germany and certain other European countries. M. T. Waggaman. Monthly Labor R 18:20-9 Ja '24
French scheme of adjusting wages to the size of the wage-earner's family. A. R. Marsh. Econ W n s 27:255-6 F 23 '24
L'institution des allocations familiales. E. Partiot. Chimie & Ind 12:167-8 Jl '24
New principle of adjusting the industrial worker's wage to the size of his family. W: McDougall. Econ W n s 29:43-5 Ja 10 '25
Operation of family allowance funds in France. Monthly Labor R 18:1037-40 My '24
Problem of the basic wage. P. H. Douglas. Univ J of Business 3:1-17 D '24
Some precedents for the family wage system. P. H. Douglas. Int Labour R 11:353-65 Mr '25
Soziallohn in lohntarif der saarländischen schwerindustrie. J. Kraus. Stahl & Eisen 44:820-3 Jl 10 '24
Structure and work of the equalization funds. P. H. Douglas. Univ J of Business 3:109-25 Mr '25
Wages and allowances for workers' dependants. Int Labour R 10:470-85 S '24
Wages and the family. P. H. Douglas. 290p [bibliog. p. 276-81] Univ. of Chicago press '25

FAMILY of products
Big campaign supports new Royal baking powder product. Ptr Ink 128:10+ S 11 '24
Bringing up a family of products and selling each one in the line. D. MacLean. Ptr Ink M 11:26-8+ O '25
Getting salesmen enthusiastic when a new product is added to the line. C. B. Larrabee. Ptr Ink 125:109-10+ N 29 '23
Giving seventy products a family identity. B. A. Grimes. il Ptr Ink M 10:36+ F '25
How we get salesmen to sell the entire line. F. R. Jones. Ptr Ink 132:33-4+ Jl 16 '25
Introducing the family to the one-item purchaser. R. Cole. Ptr Ink M 10:43-4+ F '25
Shall the family of products be dressed alike? Ptr Ink 133:121 O 1 '25
This plan gets carborundum salesmen to push entire line. W. Bates. Ptr Ink 132:10+ Jl 23 '25
Tonic for the weak sisters of the family. W. B. Edwards. Ptr Ink 133:207-8 N 5 '25
Van Camp's answer to the "it won't sell in my territory" alibi. H. P. Way. Sales Management 8:519+ Ap 4 '25
What a specialty did for our established staples; handerchief squares. H. Young. Ptr Ink 131:33-4+ Ap 23 '25
See also Advertising—Family of products

FAMOUS Players-Lasky corporation
Consolidated statement of assets and liabilities and profit and loss account, year 1923. Comm & Fin Chr 118:1288 Mr 15 '24
Consolidated statement of assets and liabilities and profit and loss account, year 1924. Comm & Fin Chr 120:1490 Mr 21 '25

FAN blast heating. See Heating, Fan blast

FANS, Mechanical
Air-washing fan. il Chem & Met Eng 31:980 D 22 '24
Application of fans and blowers to the clay-working plant. C. V. Saunders. il Brick & Clay Rec 65:470 S 30 '24
Argument for the slow-speed direct-connected D.C. motor for ventilating fan drive. J. L. McK. Yardley. il Heat & Ven 21:43-6 Ap '24
Automatic control for forced-draft fans at Wabash River station. W. C. Plumer. il Power 61:782-3 My 19 '25
Auxiliary equipment for blast and ventilating fans. C: L. Hubbard. diags Power 59:318-21 F 26 '24
Balancing high-speed fans. A. L. Greene. il chart Iron Age 112:1512-13 D 6 '23
Centrifugal fans and their characteristics. R. T. Livingston. il Power Pl Eng 28:1105-6, 1159-61, 1262-3 N 1-15, D 15 '24
Designation of fans. diags Heat & Ven 22: 101 Ag '25
Electric motor drive for centrifugal compressors. G. Fox. Blast F & Steel Pl 13:35-7 Ja '25
Exhaust fans for dyehouse ventilation. diags Textile World 67:199 Ja 10 '25
Experiments on the distribution of air in centrifugal fans and on reëntry phenomena; abstract. H: Briggs and J. N. Williamson. Mech Eng 46:281-2 My '24
Fan engineering. R: D. Madison, ed. 3d ed. 612p Buffalo forge co., 490 Broadway, Buffalo, N.Y. '25
High-speed fan. il Chem & Met Eng 31:509-10 S 29 '24
How to choose motors for driving industrial fans. R. H. Rogers. il Chem & Met Eng 30:231-3 F 11 '24
Making the kilns do more work. M. R. Robinson. il Brick & Clay Rec 67:478-9 S 29 '25
Performance of centrifugal fans for electrical machinery. C. J. Fechheimer. diags plan Mech Eng 47:319-26 My '25
Problems of electric drive for ventilating equipment. F. R. Still. Heat & Ven 21:57-8 Ja '24
Problems on electric drive for ventilating equipment. Power 58:829 N 20 '23
Removing obnoxious fumes, gases and vapors. C: L. Hubbard. il diags Ind Eng 83: 276-80+ Je '25
Selection and operation of centrifugal fans. C: L. Hubbard. diags Power Pl Eng 28: 242-4 F 15 '24
Speed limits for fans used in heating and ventilating work. Heat & Ven 21:76 Mr '24
See also Blowers; Electric fans; Fans, Mine

FANS, Mine
Advantages and disadvantages of the Booster fan. J. Williams. Min Cong J 11:168 Ap '25
Can save power by slowing multiple-speed fan motor. A. B. Kiser. Coal Age 25:755-6; Discussion. 756 My 22 '24
Control of mine fans. L. W. Householder. il Min Cong J 11:324-7 Jl '25
Dangers accompany starting of electric mine fans. Coal Age 25:16 Ja 3 '24
Disk mine fan fitted with aeroplane blades. il Coal Age 24:976 D 27 '23
Experimental study of fan évasées; abstract. H: Briggs and J. M. Williamson. diags Mech Eng 47:202-3 Mr '25
Explanation of fan in electrical terms; increasing efficiency with new drive. J. F. MacWilliams. Coal Age 25:53 Ja 10 '24
Factors which control the choice of a fan. F. L. Stone. il Coal Age 26:644-6 N 6 '24; Discussion. Am Inst E E J 44:409-11 Ap '25
Gassy mine triply safeguards its ventilation. C: M. Schloss. il plan Coal Age 27:607-8 Ap 23 '25

FANS, Mine—*Continued*
How to make preparations against a fire or an explosion and what to do when it occurs. D. Harrington and M. W. von Bernewitz. il Coal Age 26:689-91 N 13 '24
Mine fan installation. G. E. Lyman. il Min Cong J 11:146-9 Ap '25
Mine ventilation by air screws. Eng & Min J 117:251 F 9 '24
Selecting the best type of motor for driving a mine fan at variable speed. B. W. Chadbourne. il Coal Age 25:722-5 My 15 '24
See also Mine ventilation

FAR EAST
Budgets of Far Eastern countries. J. A. DeForce. U S Bur For & Dom Com Trade Information Bul 299:1-42 '24
Employment of Americans in the Far East. 26p U.S. Bur. for. & dom. com., Far Eastern div., Washington '24
Seaports of the Far East. A. Macmillan, comp. 2d ed. 529p W. H. & L. Collingridge. London '25
Unrest and business in the Far East. H. T. Lewis. il Am Bankers Assn J 18:77-8+ Ag '25; Same. Econ W n s 30:367-9 S 12 '25
See also China; Electric industries—Far East; Japan; Radio communication—Far East

Commerce
Far Eastern market for sporting and athletic goods. C. J. North. U S Bur For & Dom Com Trade Information Bul 308:1-30 '25
Far Eastern trade outlook good. J. H. Nunn. Am Ind 25:22 Ap '25
Foreign markets for confectionery. U S Bur For & Dom Com Trade Information Bul 317:1-15 '25
New Asia and its relation to the foreign trade of the United States. F. R. Eldridge. Econ W n s 30:328-31 S 5 '25
Oriental trade methods. F. R. Eldridge. 441p Appleton '23
Our trade outpost in the Orient. V. Villamin. Am Ind 25:41-2 O '24
United States in the Far East. G. A. O'Reilly. Am Ind 25:41-4 Je '25; Same. Bankers M 111:43+ Jl '25

Economic conditions
Far East in 1923—political unrest. C: Hodges. Annalist 23:27+ Ja 7 '24
Industry and business in Far East. Am Ind 24:35-7+ Mr '24

FAR EASTERN republic
Industries and resources
Economic situation in Siberia. L. J. Lewery. U S Bur For & Dom Com Trade Information Bul 286:1-20 '24

FARADAY, Michael, 1791-1867
Centenary of Faraday's discovery of benzene. Chem Age (Lond) 12:602-4 Je 20 '25; Gas J (Lond) 170:1021 Je 24 '25
Faraday and the benzene centenary. Engineering 119:770 Je 19 '25
Faraday as a chemist. W: J. Pope. Soc Chem Ind J (Chem & Ind) 44:630-4, 653-5 Je 19-26 '25; Same. Engineer 140:162-3, 195-6 Ag 14-21 '25; Abstract. Chem Age (Lond) 12: 606-7 Je 20 '25
Pioneer pathfinders of radio. J. Marsten. por Radio N 5:868+ Ja '24

FARE collection. See Motor bus lines—Fare collection; Street railroads—Fare collection

FARES. See Motor bus lines—Fares; Railroads—Fares; Street railroads—Fares

FARM accounting
Farm accounting. E. L. Currier, N. J. Lennes and A. S. Merrill. 287p Macmillan '24
Farming on a business basis with banker's aid R. Alden. Forbes 16:737-9 S 1 '25
Short system of farm costing. H: R. J. Holmes. 107p Oxford '24

FARM buildings
Farm buildings on Jacob Ruppert farm, Garrison, New York; views and plans. Arch Rec 56:245-53 S '24
Fire resistive construction for farm buildings. T. F. Laist. diags plan Bldg Age 46:63-6 F '24
Forum studies of European precedents; farm buildings of southern Europe. Arch Forum 42:32a-h Ja '25
Hollow tile on the farm. H. R. Straight. il Brick & Clay Rec 64:799-801 My 27 '24
Small cold storages and dairy buildings. J: A. Ruddick and J. Burgess. 16p Canada Dept. of agric., Ottawa '23
Tecumseh farm. il Bldg Age 46:60-2 F '24
See also Barns and stables; Farmhouses; Silos; Swine houses

Heating and ventilation
Heat, light, and power on the farm. C: L. Hubbard. il diags Dom Eng 108:29+ S 6 '24

FARM communities association
Organization. Eng N 94:870 My 21 '25

FARM credit. See Agricultural credit

FARM engines
Farm motors. A. A. Potter. 3d ed., rev. and enl. 299p McGraw-Hill '25
See also Tractors

FARM equipment
Simplification on the farm. E. L. D. Seymour. il Dun's Int R 44:46-50+ S '24

FARM journals. See Advertising mediums—Farm journals

FARM labor
Advance in farm wages during year. Comm & Fin Chr 118:377 Ja 26 '24
Agrarian problem in Spain. F. de los Rios. Int Labour R 11:844-8 Je '25; Excerpts. Monthly Labor R 21:85-6 Ag '25
Agricultural wages in Canada, 1922 to 1924. Monthly Labor R 21:543 S '25
Agricultural wages in the United States, 1866 to 1925. Monthly Labor R 21:745-6 O '25
Agricultural workers on large-scale farms in Sweden. Int Labour R 12:542-54 O '25
Child labor on Maryland truck farms. Monthly Labor R 17:1342-3 D '23
Child labor on Norfolk (Virginia) truck farms. Monthly Labor R 18:801-2 Ap '24
Collective agreements in Italian agriculture, 1923-24. Monthly Labor R 19:610-12 S '24
Employment and welfare of children in cotton-growing areas of Texas. Monthly Labor R 19:128-30 Jl '24
Farm labor in Massachusetts, 1921. J. C. Folsom. U S Agric Farmers' Bul 1220:1-26 '24; Abstract. Monthly Labor R 19:38-41 Jl '24
Farm labor problem. C. B. Sherman. il Am Bankers Assn J 18:21-2+ Jl '25
Fewer hired laborers on farms. Comm & Fin Chr 121:542-3 Ag 1 '25
Field and crop labor on Georgia farms (coastal plain area). L. A. Reynoldson. U S Agric Bul 1292:1-28 '25; Abstract. Monthly Labor R 21:93-4 Jl '25
Landless agricultural laborer in Italy. A. Hobson. J Land & Pub Util Econ 1:425-34 O '25
Problem of the automobile floater. L. F. Shields. Monthly Labor R 21:699-701 O '25
Study of farm labor in Seneca county, New York. R. L: Gillett. 69p New York (state). Dept. of farms and markets, Albany '24
Wage increases for farm labor in 1923. Monthly Labor R 18:318-20 F '24
Wages in agriculture in Norway, 1924-25. Monthly Labor R 21:754 O '25
Wages of farm labor in Norway, 1923-24. Monthly Labor R 19:1071-3 N '24
Wages of farm laborers in Canada. Monthly Labor R 18:1277 Je '24
Wages of farm laborers in Finland, 1914 to 1923. Monthly Labor R 20:544 Mr '25
Working conditions on New Jersey truck farms in 1922. Monthly Labor R 21:253-6 Ag '25

FARM life
Spare time in the country; American methods of organisation. Int Labour R 10:120-35 Jl '24

FARM life—*Continued*
Spare time in the country; an English experiment in organisation. Int Labour R 9:916-38 Je '24
What chance has the farm child? C. B. Sherman. Am Bankers Assn J 17:28-9 Jl '24

FARM lighting plants
Heat, light, and power on the farm. C: L. Hubbard. il diags Dom Eng 108:29+ S 6 '24
Wind-driven electric lighting plant. E. A. Whittaker. il diags Engineering 116:571-2 N 2 '23
Wind power for farm electric plants. F. J. Pancratz. Mech Eng 46:675-80; Discussion. 680-2 N '24

FARM loans. See Agricultural credit

FARM management
Agriculture develops a big business complex. J: Oakwood. Forbes 14:101-2+ Ap 26 '24
Farmers as managers. W. M. Jardine. Ann Am Acad 117:78-87 Ja '25
See also Farm accounting

FARM market
Another farm market fallacy is exploded. Ptr Ink 130:95-6 Mr 19 '25
Farmer stages a comeback. Sales Management 7:1517-18+ S '24
How sales managers are keeping step with new developments in the agricultural field. Sales Management 9:341-2 S 19 '25
How the food producer is winning the farm market. Ptr Ink 133:81-2+ O 22 '25
How to build a big business in a small town; Murray boys of Honesdale, Pa. W: A. McGarry. il Forbes 16:807-9+ S 15 '25
Lesson for manufacturers in the farmer's welcome of radio. J. True. Ptr Ink 126: 73-4+ Ja 24 '24
Revival of the greatest hobby market; the gentleman farmer. Ptr Ink 127:17-20 My 15 '24
Where the farm market stands today. Ptr Ink 129:131-2 O 23 '24
See also Advertising—Farmers, Appeal to

FARM papers. See Advertising mediums—Farm journals

FARM produce
Distribution of agricultural exports from the United States. H. M. Strong. maps U S Bur For & Dom Com Trade Information Bul 177:1-42 '24
Excess of the value of the country's imports over its exports of agricultural products in 1922-1923. Econ W n s 27:15 Ja 5 '24
Some odd ways of farming. O. M. Kile. il Nation's Business 13:48+ Ag '25
See also Beets and beet sugar; Dairy products; Grain; Grain trade; Sugar; Tobacco; Wheat

Advertising
How far can co-operative farm advertising go? D. Francisco. Ptr Ink M 10:25-6+ Ap '25
Place of advertising in American agriculture. G: F. Johnson. Ann Am Acad 117:255-7 Ja '25

Cost of production
Cost of crop production. Nat City Bank p 41-3 Mr '24
Production costs of farm crops. Comm & Fin 14:1364 Jl 15 '25
Production costs of major crops in 1924. Manuf Rec 88:102 Jl 2 '25
Project of dumping surplus farm products and the cost of crop production in the United States. Econ W n s 27:366-9 Mr 15 '24

Inspection
Forecasts greater advertising of farm products; official inspection is giving better sales opportunities. Ptr Ink 128:117-18+ Ag 7 '24

Marketing
Agricultural commerce. G. G. Huebner. Rev. & enl. ed. 529p Appleton '24
Agricultural marketing. J: T. Horner. 249p Wiley '25
Bank credit in relation to the financing of the present season's crop movement. Econ W n s 30:547-9 O 17 '25; Same. Fed Res Bul 11:711-14 O '25
Domestic market for American farm products. L. C. Gray. Ann Am Acad 117:156-65 Ja '25
Economics of a food supply. W. O. Hedrick. 336p Appleton '24
European economic conditions which affect the markets for agricultural products. H. B. Smith. U S Bur For & Dom Com Trade Information Bul 235:1-62 '24
Farm market blues turn into paean of confidence; manufacturers and farmers in conference at Chicago. Ptr Ink 126:41-2+ Ja 24 '24
Farmer's foreign market. R. J. McFall. Ann Am Acad 117:129-55 Ja '25
Federal reserve board as a farm advisor. J. E. Boyle. Comm & Fin 13:12 Ja 2 '24
Financing agricultural exports from the United States. G: W. Edwards. U S Bur For & Dom Com Trade Information Bul 241: 1-46 '24
Financing the marketing of wheat. J: M. Chapman. Harvard Business R 3:436-46; 4:57-70 Jl, O '25
Is the farmer a martyr—or a pirate? Sales Management 6:1059-60+ Je '24
Marketing Canadian wheat. T. D. Hammatt. il maps U S Bur For & Dom Com Trade Information Bul 251:1-123 '24
Marketing of agricultural products. J. E. Boyle. 479p McGraw-Hill '25
Marketing of farm products. H: C. Taylor. Am Inst Chem Eng Trans v 15 pt 2:203-7 '23
Promoting the sale of farm products abroad. (68th Cong., 1st sess. House. Rept. 248) 15p Govt. ptg. off., Washington '24
Reduction of wastes in marketing. C. B. Sherman. il Am Bankers Assn J 16:426 Ja '24
Relation of local farm output to the local product. J: M. McKee. Ann Am Acad 117: 278-84 Ja '25
Scientific marketing of farm products as illustrated by the marketing of eggs. E. W. Benjamin. bibliog Ann Am Acad 115:106-15 S '24
Sears Roebuck to teach farmer lesson of marketing. C. M. Harrison. Ptr Ink 125: 53-4+ D 6 '23
Selling plan that is winning success for the farmer. Ptr Ink 127:172-3+ Ap 24 '24
Solution for marketing, distribution, &c., of farm products. L. T. McFadden. Comm & Fin Chr 118:504-5 F 2 '24
What markets can the farmer expand? O. M. Kile. Nation's Business 12:27-8 Ap '24
Why cannot agricultural prosperity be permanent? M. Hastings, jr. Ptr Ink 128:17-20 Ag 14 '24
See also Grain marketing company; Marketing, Cooperative

Bibliography
Bibliography on the marketing of agricultural products. E. L. Day, K. Jacobs and M. T. Olcott. U S Agric Misc Circ 35: 1-56 '25

Prices
Fallacy of price-fixing, with particular reference to farm products. G: E. Roberts. Econ W n s 27:220-3 F 16 '24
Influence of freight rates on farm product prices. Bradstreet's 52:141 Mr 1 '24
Measuring the spread from farmer to consumer. W. P. Hedden. Ann Am Acad 117: 177-83 Ja '25
More aid for agriculture; provisions of the McNary-Haugen bill. Index p 3-7 Mr '24
Prices of farm products. Fed Res Bul 10:789-92 O '24
Prices of farm products in comparison with railway rates. Ry R 75:635 O 25 '24
Prices of farm products in relation to transportation costs. Ry R 74:374 Mr 1 '24

FARM produce—Prices—*Continued*
Restoration of equilibrium between agricultural and other prices. Econ W n s 30:189-90 Ag 8 '25; Same. Nat City Bank p 121-3 Ag '25
Supply and price interactions in farm and city products. H. A. Wallace. Ann Am Acad 117:243-7 Ja '25

Transportation

Ascertaining what part of the freight burden is borne by the farm. S. Anderson. Econ W n s 27:116-18 Ja 26 '24; Same. Am Bankers Assn J 16:421-2+ Ja '24
Freight charge on food products. O. O. Carr. Ry R 74:365-7 Mr 1 '24
Freight rates on farm products. Ry Age 78: 256-7 Ja 24 '25
La Follette proposes pre-war rates on farm products. Ry Age 76:360 F 9 '24
Movement of the product of agriculture. W. L. Crum. charts Ry Age 77:703-6 O 18 '24
Senate committee proposes reduction in agricultural rates. Ry Age 76:850-1 Mr 29 '24
Service more important than reduced rates to Western farmers. Ry R 76:168-9 Ja 17 '25
Transportation in relation to the export trade in agricultural products. R. M. Kramer. diags U S Bur For & Dom Com Trade Information Bul 216:1-74 '24

See also Fruit—Transportation

FARM tenancy
New method of tenancy disputes adjustment in Japan. Int Labour R 11:381-8 Mr '25
Objectives and scope of research in farm tenancy. G: S. Wehrwein. J Land & Pub Util Econ 1:501-3 O '25
Place of tenancy in a system of farm land tenure. G: S. Wehrwein. J Land & Pub Util Econ 1:71-82 Ja '25
Relationships of landlords to farm tenants. F. A. Buechel. J Land & Pub Util Econ 1:336-42 Jl '25
Trend in tenancy and ownership. A. M. Loomis. chart Ann Am Acad 117:61-8 Ja '25

FARM wagons. See Wagons

FARM women
Government contest in which advertisers may join; room-beautifying contest. Ptr Ink 133: 126+ O 29 '25
Perhaps farm women don't know how to use your product. Ptr Ink 131:57-8+ Ap 16 '25
What the farm family wants to read. Ptr Ink 133:89-90+ O 8 '25
Why 500,000 farm women will be better buyers in 1925. Ptr Ink 131:131-4+ Ap 9 '25

FARMER, F. M.
Portrait. Chem & Met Eng 31:9 Jl 7 '24

FARMER-manufacturer convention
Farm market blues turn into paean of confidence; manufacturers and farmers in conference at Chicago. Ptr Ink 126:41-2+ Ja 24 '24

FARMERS
Agriculture, the farm and its relation to the oil industry. E. T. Meredith. Am Pet Inst Bul 4:10-18 D 31 '23
Bank co-operation in community extension work. E. B. Harshaw. il Bankers M 110: 627-33 Ap '25
Community development phase of bank agricultural work. E. B. Harshaw. Bankers M 110:795-800 My '25
Community need of bankers' interest in better agriculture. E. B. Harshaw. il Bankers M 110:21-6 Ja '25
Community survey in bank agricultural work. E. B. Harshaw. Bankers M 110:243-7 F '25
Does it pay banks to help farmers? E. B. Harshaw. Bankers M 110:973-8 Je '25
Evolution of farm life in America. H. E. Reeves. il Am Arch 125:379-82 Ap 23 '24
Farmer and his common carriers. R. E. Plimpton. il Bus Transportation 4:367-71 Ag '25
Farmer and the freight rate. E. Cordeal. Ry Age 76:231-2 Ja 19 '24
Farmer is a partner in and beneficiary of oil. W. C. Platt. Nat Pet N 16:105-6 N 26 '24
Getting the farmer's point of view solved our sales problems. R. J. Murray. il System 48: 161-3+ Ag '25
How the banker can promote closer personal contact with the farmer. E. B. Harshaw. il Bankers M 110:459-68 Mr '25
I'm a farmer; don't pity me. J. Van Wagenen, jr. il Nation's Business 13:42-5 Jl '25
Inquiring on farmers; six sources of credit information. C. R. Alley. Credit M 26:23+ Ag '24
An inside view of the farm outlook. Ptr Ink 132:33-4+ Ag 20 '25
Money to loan—few takers. C: M. Harger. Am Bankers Assn J 18:177+ S '25
New birth for an old-time way of selling to farmers; selling Fuller brushes. A. E. Haase. Ptr Ink M 10:48+ F '25
No such thing as an average farmer when it comes to making sales. O. M. Kile. Ptr Ink 125:33-4+ D 20 '23
Price is no longer chief factor in farm buying. D. M. Hubbard. Ptr Ink 133:123-4 N 5 '25
Problems of farmers of Northwest, North Dakota and Non-partisan league. R. A. Nestos. Comm & Fin Chr 117:2280-1 N 24 '23
Railway sentiment in rural communities. Ry Age 76:1020-1 Ap 26 '24
Rural uplift is on the wane. H. J. Hughes. Nation's Business 13:35-6 S '25
Secretary Jardine tells how business men can aid farmers. W: M. Jardine. Ptr Ink 131:17-20 My 28 '25
Selling the farmer on one call. C. G. Muller. Ptr Ink 128:41-2+ S 4 '24
Status of the farmer. Spectator 113:28-9 O 2 '24
Upon the welfare of the farmer depends the success of the banker. O. J. Sands. Manuf Rec 88:67-9 Jl 23 '25
What the eastern farmer reads. E: E. Pratt. Sales Management 8:379-80+ Mr 7 '25
What the farmer expects of the railroads. J. R. Howard. Ry R 73:679-80 N 10 '23

See also Advertising—Farmers, Appeal to; Farm market; Farm women; Marketing, Cooperative; Special trains, Educational

Advertising

British farmers need advertising education. T: Russell. Ptr Ink 129:132+ O 9 '24
How the farm can be merchandised. F. A. Meckel. il Ptr Ink M 8:110+ Mr '24

See also Farm produce—Advertising

FARMERS' bulletins
Twenty-one million bulletins for farmers; list for 1924. Am Bankers Assn J 17:46+ Jl '24
What the farm family wants to read. Ptr Ink 133:89-90+ O 8 '25

FARMHOUSES
Farmhouses near the Riviera. W: D. Foster. il Arch Forum 40:209-12 My '24

FARMING. See Agriculture

FARMS, Industrial
Farms for factories. il Factory 32:487-8+ Ap '24

FARNESOL
Le farnésol. J. Grosjean and J. Martinet. bibliog Chimie & Ind 14:363-7 S '25

FARQUHAR, Arthur B., 1838-1925
Sketch. por Am Ind 25:25 Ap '25

FARR alpaca company, Holyoke, Mass.
Farr alpaca co. completes half century. il Textile World 65:776-7 F 2 '24

FARRELL, James A.
How love of the sea shaped Farrell's career. por Am Exporter 95:10+ Ag '24

FASHION
Fashions and fabrics. A. F. Barker. Textile Inst J 16:P97-102 Ap '25
Making the modes. E: F. Crowe. Comm & Fin 13:1731-3 S 17 '24
Must the style manufacturer find a new copy appeal for his advertising? L: C. Pedlar. Ptr Ink 127:41-2+ My 22 '24

FASHION—*Continued*
Some commercial aspects of styles and fashions in the clothing and textile industries. P. T. Cherington. Harvard Business R 2: 421-33 Jl '24
We buy news along with merchandise L: E. Kirstein. Comm & Fin 14:2199-2200 N 11 '25

See also Clothing trade—Advertising

FASTENINGS
Effect of external load on fastenings. H. W. Leet. diags chart Am Mach 63:763-4 N 12 '25

See also Bolts and nuts; Joints; Rivets

FATHOMETER. See Sounding

FATIGUE
Cost of fatigue in steel plants. H. Porter. il Blast F & Steel Pl 13:73-5 F '25
Economics of fatigue and unrest and the efficiency of labour in English and American industry. P. S. Florence. 426p Holt '24
Fatigue element in accident prevention. W: Baum. Ry Mech Eng 98:181-2 Mr '24; Same. Nat Safety N 9:32-3 Mr '24; Same. Safety Eng 47:136-8 Mr '24
Fatigue in the iron and steel trades. Engineer 138:187-8, 377 Ag 15, O 3 '24
Industrial fatigue conditions in the British metal polishing industry. Metal Ind 22:487 D '24
Investigation of industrial fatigue. Engineering 119:705-6 Je 5 '25
Laundry trade; a study in activity and fatigue. M. Smith. il J Ind Hygiene 5:447-56; 6:14-19 Ap-My '24
Posture and rest in muscular work. Engineering 119:409-10 Ap 3 '25
What causes and what cures fatigue; lactic acid controls the action of our muscles. R. L. Duffus. il Sci Am 132:10-11 Ja '25

See also Eye strain; Motion study; Posture

FATIGUE in metals
Accelerated fatigue tests and some endurance properties of metals. D. J. McAdam, jr. Am Soc T M Pro 24 pt 2:454-75; Discussion. 601-17 '24
American researches on the fatigue of steel. Engineer 140:sup118-21 Ag 28 '25
Design of specimens for short-time fatigue tests. L. B. Tuckerman and C. S. Aitchison. diags U S Bur Stand Tech Pa 275: 47-55 '24
Effect of grain upon the fatigue strength of steels. L. Aitchison and L. W: Johnson. Iron & Steel Inst J 111:351-76, pl 40-5 no 1 '25; Abstract. Engineering 119:585 My 8 '25; Discussion. Iron & Steel Inst J 111:377-8 no 1 '25
Elastic limit in tension, and its influence on the breakdown by fatigue. J. M. Lessells. il diags Engineering 118:813-14 D 12 '24; Abstract. Engineer 138:662-3 D 12 '24; Discussion. Engineering 118:794-5; 119:10-11 D 12 '24, Ja 2 '25
Endurance and failure. Eng N 93:251 Ag 14 '24
Endurance properties of corrosion-resistant steels. D. J. McAdam, jr. Am Soc T M Pro 24 pt 2:273-303 [bibliog. p. 303] '24
Endurance properties of metals. D. J. McAdam, jr. bibliog il Mech Eng 47:566-72 Jl '25
Die ermüdung der metalle. R. Mailänder. Stahl & Eisen 45:1713-15 O 8 '25
Ermüdungserscheinungen und dauerversuche. R: Mailänder. Stahl & Eisen 44:585-9, 624-9, 657-61, 684-91, 719-21 My 22-Je 19 '24
Les essais de fatigue des métaux et les machines Amsler pour leur exécution. il diags Génie Civil 87:64-6 Jl 18 '25
Evidence for the existence of an endurance, or fatigue limit in metals and its determination. H. F. Moore and T. M. Jasper. diag Engineering 118:580-2, 658-60 O 24, N 7 '24
Failure of materials in engineering G. Stoney. Engineering 120:224 Ag 21 '25
Failure of metals by fatigue. F. A. Rowlinson. diags Sci Am 131:240+ O '24
Fatigue in metals. H. J. Gough. Engineer 138:664 D 12 '24
Fatigue in metals investigated. H. F. Moore. Can Eng 46:599 Je 10 '24
Fatigue of metals. H. J. Gough. 324p Van Nostrand '24
Fatigue of metals by direct stress. P. B. Irwin. diag Eng N 95:311-12 Ag 20 '25
Fatigue of metals in airplane parts. R. R. Voorhees. Iron Age 115:1498 My 21 '25
Fatigue properties of steel. U S Bur Stand Circ 101:139-68 '24
Fatigue tests of metals and the theory of elasticity. H. F. Moore. Eng N 94:225-6 F 5 '25
High-temperature static and fatigue tests of steel. T. M. Jasper. Eng N 95:309-11 Ag 20 '25
Investigation of a fatigue failure of brass tubes in a feed-water heater, with a consideration of the nature of fatigue. W. E. W. Millington and F. C. Thompson. diags Engineering 117:353-4; Discussion. 344-5 Mr 14 '24; Abstract. Engineer 137:290-1 Mr 14 '24
Investigation of the fatigue of metals; series of 1923. H. F. Moore and T. M. Jasper. il diags Ill U Eng Exp Sta Bul 142:1-86 '24; Abstracts. Power 60:111-12 Jl 15 '24; Eng N 93:212 Ag 7 '24; Mech Eng 46:487-8 Ag '24; Conclusion. Automotive Ind 51:161-2 Jl 17 '24
Notes on the fatigue of metals. J. M. Lessells. Mech Eng 45:695-6 D '23
Scratches and the fatigue strength of steel. Engineer 140:sup150-1 O 30 '25
Selecting the steel for the job. H. F. Moore. Soc Auto Eng J 15:483-4 D '24
Sessions of the American society for testing materials on magnetic analysis and fatigue of metals. Iron Age 114:15+ Jl 3 '24
Some endurance tests of metals. H. W. Gillett and E. L. Mack. il diags Am Soc T M Pro 24 pt 2:476-546 [bibliog. p. 544-6]; Discussion. 601-17 '24
Some fatigue tests on non-ferrous metals. R. R. Moore. Aviation 19:10 Jl 6 '25
Stress repetition and fatigue in steel structures. H. F. Moore. Eng N 95:376-7 S 3 '25
Studying the fatigue of metals. H. F. Moore. il diags Am Mach 62:563-5 Ap 9 '25
Value method of detecting minute slipping in metals. C. Handford. diags Philos Mag 6th ser 47:896-907, pl 6 My '24
What happens when metal fails by fatigue? H. F. Moore. Am Mach 63:502-3 S 24 '25
Work of the fatigue panel of the aeronautical research committee. C. F. Jenkin. Engineering 118:245 Ag 15 '24; Abstract. Mech Eng 46.908-9 D '24; Discussion. Engineering 118:284-5 Ag 29 '24

Bibliography
Ermüdungserscheinungen und dauerversuche. R: Mailänder. Stahl & Eisen 44:721-5 Je 19 '24

FATS. See Oils and fats

FATTY acids. See Acids, Fatty

FAUCETS

Tarnishing
Blackened nickel-plated faucets. F: B. Stevens. Metal Ind 22:281-2 Jl '24

FAULTS (geology)
Miner and the faulted vein. C. W. Hall. Eng & Min J 119:807-11 My 16 '25

FEATHERS
Preliminary experiments on feather pigments. W. D. Bancroft. J Phys Chem 28: 1147-50 N '24

FECHET, James E., 1877-
Col. James E. Fechet appointed assistant chief of air service. por Aviation 18:290 Mr 16 '25

FEDERAL aid to states
Who pays Uncle Sam's bills? W. C. Markham. Munic & Co Eng 69:115-25 S '25; Excerpts. Automotive Ind 53:452-5 S 17 '25

See also Roads—Federal aid

FEDERAL board for vocational education
Eighth annual report covering the year ended June 30, 1924; summary. Monthly Labor R 20:694-6 Mr '25

FEDERAL bond and mortgage company
Endeavor made to prevent misleading use of the word "federal." Ptr Ink 125:10+ D 6 '23

FEDERAL farm land banks
Loans closed by Federal and joint stock land banks since organization. Comm & Fin Chr 118:737-8 F 16 '24
Magnitude of operations of federal land banks and of the joint stock land banks. Comm & Fin Chr 119:2713; 120:651-2 D 13 '24, F 7 '25

FEDERAL farm loan bureau
Federal farm loan bureau, its history, activities and organization. W: S. Holt. 160p [bibliog. p. 134-56] Johns Hopkins press, Baltimore '24

FEDERAL intermediate credit banks. See Intermediate credit banks

FEDERAL light and traction company
Federal light & traction convertible 7s, 1953. Moody's Inv Serv 16:423 N 20 '24

FEDERAL oil conservation board
Board assumes industry guilty without facts. W. C. Platt. Nat Pet N 17:63-4+ Ap 29 '25
Committee report does not reflect opinion of oil industry. E. Oliver. charts map Nat Pet N 17:39-40d O 28 '25; Excerpts. Pet Age 16:15-17+ N 1 '25
Comprehensive oil conservation program. Bradstreet's 52:829 D 27 '24
Co-operation. Am Pet Inst Bul 6:1-10 Ja 24 '25
Federal conservation board names technical sub-committee. A. E. Heiss. Nat Pet N 17: 20-1 Ja 14 '25
Federal oil board is busy digesting ideas in 300 questionnaire answers. V. B. Guthrie. Nat Pet N 17:25-8 O 21 '25
Federal oil conservation board asks for suggestions. Min Cong J 11:234-7 My '25
Federal oil conservation board closes questionnaire inquiry. Comm & Fin Chr 121:544 Ag 1 '25
Federal oil conservation board seeks views from technical press—also data from refiners. Comm & Fin Chr 120:1696-7 Ap 4 '25; Excerpt. Oil Paint & Drug Rep 107:19 Mr 23 '25
Inquiry into all phases of petroleum production by president's oil conservation board. Comm & Fin Chr 120:413-14 Ja 24 '25
New board has complicated task. T: M. Galey. Nat Pet N 17:21-2 Ja 21 '25
Oil board sends out questionnaires to four more groups. Nat Pet N 17:93-4+ Mr 4 '25
President Coolidge appoints Federal oil conservation board. Power 60:1078 D 30 '24; Index p 3-4 Ja '25
U. S. oil board now has facts; big public hearing will be held in October. Pet Age 16:27+ Ag 1 '25; Nat Pet N 17:39-40 Ag 5 '25

FEDERAL power commission
Attitude of Federal power commission toward municipalities defined. J Elec 53:321 N 1 '24
Fourth annual report for year ending June 30, 1924. Power 60:919 D 2 '24

FEDERAL reserve act
How to revise the Reserve act? H. P. Willis. il Burroughs Clearing House 9:5-7+ Jl '25
Representative McFadden's bill to repeal war time amendments to Federal reserve act. Comm & Fin Chr 120:1154-5 Mr 7 '25

FEDERAL reserve bank of Boston
Comparison of operating costs and profits of members in Federal reserve bank of Boston. Comm & Fin Chr 118:628-9 F 9 '24

FEDERAL reserve bank of New York
America's new citadel of finance. Am Bankers Assn J 17:325-6 N '24
Annual report, 10th, for year ended Dec. 31, 1924. Comm & Fin Chr 120:1037-9 F 28 '25
Annual statement of Federal reserve bank of New York. Comm & Fin Chr 120:287 Ja 17 '25
Banking position of the N.Y. Federal reserve bank. P. Gourrich. Annalist 26:183 Ag 14 '25
Expenses of operation of Federal reserve bank of New York during 1924. Comm & Fin Chr 120:410 Ja 24 '25
Removal of Federal reserve bank of New York to new building. Comm & Fin Chr 119:1908 O 25 '24

Library
Librarian diplomats and detectives. G: W. Gray. il Burroughs Clearing House 8:5-7+ Je '24

FEDERAL reserve banks
Achievement of economic readjustment in the United States and the federal reserve discount policy in 1923. Econ W n s 27:476-9 Ap 5 '24
American bankers association favors rechartering of Federal reserve banks for 99 years or indeterminate term. Comm & Fin Chr 121:1638-9 O 3 '25
Analysis of the Federal reserve system. A. F. Thomas. Manuf Rec 86:101-2 Jl 3 '24
Bankers preparing to meet attacks on system in next session of Congress. Comm & Fin Chr 120:2643-4 My 23 '25
Banking operations in second reserve district. Bradstreet's 52:477 Jl 26 '24
Bi-partisan myth—Federal reserve bank deflation of the farmers. B: M. Anderson, jr. Chase Econ Bul 4:1-11 O 9 '24; Same. Econ W n s 28:508-10 O 11 '24; Same. Comm & Fin Chr 119:1698-1700 O 11 '24
Branch banks vs. national banks; competition between state and national banks imperils the Federal reserve system. E: A. Bradford. Annalist 23:455-6 Ap 14 '24
Branch federal reserve bank in the Carolinas. Manuf Rec 88:69-71 Jl 16 '25
British influence on Reserve bank credit policies. B. H. Beckhart. Annalist 26:571-3 N 6 '25
Challenge to member banks. Am Bankers Assn J 17:392+ D '24
Changes in bank reserves since the Federal reserve act. W. R. Burgess. Am Bankers Assn J 17:667-9 My '25
Changes in Federal reserve statements. Index p 6-8 F '24
Cheap money, gold, and Federal reserve bank policy. B. M. Anderson, jr. Chase Econ Bul 4:3-26 Ag 4 '24; Excerpts. Comm & Fin Chr 119:651-2 Ag 9 '24; Econ W n s 28:184-6 Ag 9 '24
Comparison of operations costs of representative member banks in Federal reserve district of New York. Comm & Fin Chr 119:408-9 Jl 26 '24
Condition of Federal reserve banks. Published in monthly numbers of Federal reserve bulletin
Confidence in Federal reserve system recorded by National association of credit men. Comm & Fin Chr 120:3139 Je 20 '25
Congress looks at Federal reserve. H. J. Dodge. il Burroughs Clearing House 8:19-21+ Ja '24
Correspondent banks and the Federal reserve system. J. Demmery. Univ J of Business 2:288-309 Je '24; Abstract. Am Bankers Assn J 17:171+ S '24
Development of the domestic and international use of the dollar acceptance. F. I. Kent. Econ W n s 29:40-3 Ja 10 '25; Same. Comm & Fin Chr 120:37-9 Ja 3 '25
Development of the Federal reserve system. il Arch & Bldg 57:57-8+, pl 135-53 Jl '25; Same. Eng & Contr (Bldgs) 64:459-62 Ag 26 '25
Discount policy of the Federal reserve system. B: H. Beckhart. 604p Holt '24
Earnings and expenses of member banks. Fed Res Bul 10:941-3; 11:402-5 D '24, Je '25
Effect of the Federal reserve system on interest rates. W. R. Burgess. Management & Adm 6:733-8 D '23
Eligibility rules of the Federal reserve system. W. F. Mitchell. Univ J of Business 3:153-70 Mr '25

FEDERAL reserve banks—*Continued*
Experience with Federal reserve system. L. E. Pierson. Comm & Fin Chr 120:3140 Je 20 '25; Excerpt. Comm & Fin 14:1187 Je 17 '25
Federal reserve balances. Am Bankers Assn J 17:212 O '24
Federal reserve bank of Boston offers to aid cotton textile industry in determining trend of orders booked—operation of Reserve bank reporting system. F: H. Curtiss. Comm & Fin Chr 121:2227-9 N 7 '25
Federal reserve bank war. T. H. Price. Comm & Fin 14:818 Ap 29 '25
Federal reserve banking during 1923. Comm & Fin Chr 117:2832-3 D 29 '23
Federal reserve banking during 1924. Comm & Fin Chr 120:28 Ja 3 '25
Federal reserve banks and the rate of discount. J. A. Estey. Bankers M 108:532-8 Ap '24
Federal reserve banks to act as depositaries of property held by Alien property custodian. Comm & Fin Chr 121:282 Jl 18 '25
Federal reserve board on open market policy and operations. Comm & Fin Chr 118:1613-14 Ap 5 '24
Federal reserve inter-district collection system. 129p U.S. Federal reserve bd., Washington '24
Federal reserve leased wire system. G. Garrison. maps Comm & Fin 14:705+ Ap 15 '25
Federal reserve notes. H: C. Rawie. Rev. ed. 110p Waverly press, Baltimore '24
Federal reserve rate should be raised. P. Gourrich. Annalist 26:405, 443+ O 2-9 '25
Federal reserve system. Bankers M 111:497-501 O '25
Federal reserve system. Nat City Bank p 8-13 N '24; Same. Econ W n s 28:690-3 N 15 '24
Federal reserve system. P. Jay. Comm & Fin Chr 118:2898-2900 Je 14 '24; Same. Credit M 26:12-15+ Jl '24
Federal reserve system. G. G. Munn. Bankers M 109:103+ Jl '24
Federal reserve system after ten years. P. Jay. Econ W n s 30:53-5 Jl 11 '25
Federal reserve system and the future of American finance. L: E. Pierson. por Credit M 27:21-2+ Jl '25; Excerpt. Bankers M 111: 78-9 Jl '25
Federal reserve system and the proposed McFadden amendments. Comm & Fin Chr 120: 2331-6 My 9 '25
Federal reserve system and the speculative excesses in grain and in stocks. Comm & Fin Chr 120:1797-1805 Ap 11 '25
Federal reserve system in its relation to inflation and deflation. S: W. Anderson. Harvard Business R 2:201-6 Ja '24
Federal reserve system in operation. E. A. Goldenweiser. 349p McGraw-Hill '25
Federal reserve system should be hailed as savior from commercial crisis. J: G. Lonsdale. Comm & Fin Chr 117:2375-6 D 1 '23
Federal reserve's future. E: A. Bradford. Annalist 24:13+ Jl 7 '24
Formative period of the Federal reserve system (during the world crisis). W. P. G. Harding. 320p Houghton '25
Functions of Federal reserve banks. P. Jay. Comm & Fin Chr 120:2758-60 My 30 '25
Gold imports and exports in relation to banking credit in the United States. P. Jay. Econ W n s 29:221-4 F 14 '25
Gross earnings of Federal reserve banks in 1924 about 25% less than in two preceeding years. Comm & Fin Chr 120:1039-40 F 28 '25
How the Federal reserve has made checks more widely acceptable. W. R. Burgess. il diags Am Bankers Assn J 18:135-8 S '25
How the mechanism of the Federal reserve prevented a gold inflation. W. R. Burgess. Am Bankers Assn J 17:729-31 Je '25
How the state banks regard the Federal reserve system. F. W. Simmonds. Am Bankers Assn J 17:79-81+ Ag '24
If reserve banks are limited to discounting. E. E. Agger. Am Bankers Assn J 17:361-2+ D '24; Same. Econ W n s 29:115-16 Ja 24 '25
Imperfect working of Federal reserve system. Comm & Fin Chr 119:2323-30 N 22 '24
Inquiry into why eligible state banks remain out of Federal reserve system—extent of membership. Comm & Fin Chr 117:2167-9 N 17 '23
Instead of a state guaranty law. R. O. Kaufman. Am Bankers Assn J 17:486+ F '25
Is cheap money permanent?—operation of the Federal reserve system. Comm & Fin Chr 121:1394-5 S 19 '25
Is the Federal reserve worth its cost? E: A. Bradford. Annalist 24:51-2 Jl 14 '24
Juggling the Federal reserve statement. T. H. Price. Comm & Fin 13:211-12 Ja 23 '24
Money and banking. Nat City Bank p 38-9 Mr '25
Money rate puzzle. J: McHugh. Am Bankers Assn J 18:123-4 S '25
Nation's banking standards at stake. E: A. Bradford. Annalist 23:262+ F 25 '24
Net profits of member banks in Federal reserve system 9.11% for year ending June 30, 1924, compared with 9.51% the previous year. Comm & Fin Chr 120:414-15 Ja 24 '25
New regulations of Federal reserve bank of New York governing telegraphic transfers of funds. Comm & Fin Chr 119:422-3 Jl 26 '24
New regulations of Federal reserve board governing branches of state bank members of system. Comm & Fin Chr 118:1611, 1733-5 Ap 5-12 '24
New ways for paying the expenses of the reserve banks. H. P. Willis. Am Bankers Assn J 17:483-5 F '25
Non-cash items cost system a million a year. Am Bankers Assn J 17:508+ F '25
Open-market policy and operations of the Federal reserve banks in 1923. Econ W n s 27:549-50 Ap 19 '24
Operations of the Federal reserve system in 1923. Econ W n s 27:17-19 Ja 5 '24
Our increased financial power; some problems and responsibilities arising therefrom. J. S. Alexander. Econ W n s 29:904-6 Je 27 '25; Same. Am Ind 26:38-40 Ag '25; Excerpts. Comm & Fin Chr 120:3265-6 Je 27 '25
Perpetuation of Federal reserve system imperative. E. L Mattson; W: E. Knox. Comm & Fin Chr 121:1639 O 3 '25
Politics and the Federal reserve system. H. P. Willis. Bankers M 110:13-20 Ja '25
Present volume and character of outstanding Federal reserve bank credit. Econ W n s 30:258-60 Ag 22 '25; Same. Fed Res Bul 11: 525-8 Ag '25; Same. Comm & Fin Chr 121: 941-2 Ag 22 '25
Price indices will not dominate reserve policy. E: A. Bradford. Annalist 23:429+ Ap 7 '24
Proposal to demobilize the Federal reserve system. E. E. Agger. Am Bankers Assn J 17: 725-8 Je '25
Proposed amendments to the Federal reserve act; text of bill. Bankers M 111:151-7 Ag '25
Rechartering in advance of Federal reserve banks urged, because of possible political attacks. Comm & Fin Chr 120:2223 My 2 '25
Relation of reserve bank loans and investments to money market movements. Econ W n s 29:297-8 F 28 '25
Relation of the Federal reserve system to our financial and business interests. A. F. Thomas. Manuf Rec 87:77-8 My 21 '25
Reply to Federal reserve board's opposition to Carolina branch of reserve bank. W. H. Wood. Manuf Rec 88:75 Jl 23 '25
Reserve bank incomes—report of Federal reserve bank of New York. Comm & Fin Chr 120:409-10 Ja 24 '25
Reserve system inflation power needs check. H. P. Willis. Annalist 25:675-6 My 18 '25
Resolutions of Federal reserve board restricting branches of state banks seeking membership; minority report; opinions. Comm & Fin Chr 117:2051-5 N 10 '23
Revision of regulation on membership of state banks and trust companies. Fed Res Bul 10:279-81 Ap '24

FEDERAL reserve banks—*Continued*
Sample political speech. S. W. Brookhart. Nat City Bank p 125-7 Ag '24
Senator Brookhart's proposal for Farmers' and laborers' co-operative national reserve bank and marketing system. Comm & Fin Chr 117:2281 N 24 '23
Statement of the Federal reserve banks. Published in weekly numbers of Annalist
Steadier interest rates under the Federal reserve system. W. R. Burgess. Am Bankers Assn J 18:12-15+ Jl '25
System changes suggested. R. Neill. Am Bankers Assn J 18:259 O '25
Ten years of the Federal reserve. L. P. Ayres. Am Ind 26:9-12 S '25; Excerpts. Comm & Fin Chr 120:2760-1 My 30 '25
Tenth anniversary of the Federal reserve system. Bradstreet's 52:749 N 22 '24
Time has come to demobilize Federal reserve banks—would restrict note-issuing power to meet trade demands rather than speculative needs. L. T. McFadden. Comm & Fin Chr 120:2496 My 16 '25
Two per cent on reserve balances. D. R. Crissinger. Am Bankers Assn J 16:549-50+ Mr '24
United States, by co-operating with Great Britain's efforts to return to gold standard, supplies constructive factor of greatest consequence. A. C. Miller. Comm & Fin Chr 120:2760 My 30 '25
Weekly return of the Federal reserve board. See weekly numbers of Commercial and financial chronicle and Bradstreet's
What future for the Federal reserve? A. W. Mellon. il Nation's Business 13:26-7 My '25
What reserve banks cannot do. Bankers M 109:414 S '24
What the federal reserve system has done to our currency. W. R. Burgess. Am Bankers Assn J 17:599-601 Ap '25
Why the Federal reserve banks should not pay interest on their deposits. B. M. Anderson, jr. Econ W n s 27:259 F 23 '24

Check clearance

See Checks

FEDERAL reserve board
Annual report for 1923. Comm & Fin Chr 118:1611-13, 2521-3, 2773-5 Ap 5, My 24, Je 7 '24
Criticism of the Federal reserve's credit policy answered. G: E. Putnam. Am Bankers Assn J 17:319-20 N '24
Digest of rulings of the Federal reserve board (1914-1923, inclusive). 407p U.S. Federal reserve board, Washington '24
Federal advisory council urges Federal reserve board to take part in promoting Dawes plan. Comm & Fin Chr 118:2518-19 My 24 '24
How the Federal reserve board controls flow of credit. Am Bankers Assn J 16:668+ Ap '24
Inner mind of the Federal reserve board. L: Alexander. Am Bankers Assn J 17:675-6+ My '25
Price fixing by the Federal reserve board. T. H. Price. Comm & Fin 13:701 Ap 9 '24; Discussion. 13:795-6, 838 Ap 23-30 '24
Regulations of the Federal reserve board. Fed Res Bul 10:705-27 S '24
Reserve board aids sale of United States cotton to German spinners. Comm & Fin Chr 119:650-1 Ag 9 '24
Rulings of the Federal reserve board. Published in monthly numbers of Federal reserve bulletin
Statistical work of the Federal reserve board in 1923-24. Fed Res Bul 10:554 Jl '24
Statistical work of the Federal reserve board in 1924-1925. Fed Res Bul 11:471-4 Jl '25

FEDERAL tax board of appeals. See United States—Federal tax board of appeals

FEDERAL trade commission
Activities of Federal trade commission. Oil Paint & Drug Rep 107:7-8 Mr 26 '25; Excerpt. Am Ind 25:28-9 Ap '25
Advertising agents and publishers answer Federal trade commission. Ptr Ink 130:10+ Mr 19 '25
At last! Federal trade commission sees the light. Sales Management 8:534 Ap 4 '25
Bothering business. H. A. Toulmin, jr. Forbes 15:755-7+, 823-5; 16:18-20, 105-7 Mr 15-My 1 '25
Chamber of commerce of United States approves of Trade commission reform. Oil Paint & Drug Rep 107:21+ My 25 '25
Commissioner Gaskill hits methods of Federal trade commission. Sales Management 8:31+ Ja 10 '25
"Don't shoot—we're coming down;" an authorized interview with Will E. Humphrey. J. Underwood. Nation's Business 13:30-2 My '25
Factors in the premium price of anthracite. Monthly Labor R 21:511-15 S '25
Federal trade commission; an opinion by the United States Supreme court. Nation's Business 12:58+ My '24
Federal trade commission corrects some of its own weaknesses. Ptr Ink 130:25-6+ Mr 26 '25
Federal trade commission reforms. Comm & Fin 14:544 Mr 25 '25
Federal trade commission rules changed; will give business square deal. A. E. Heiss. Nat Pet N 17:87-8 Je 10 '25
Federal trade commission strives to understand advertising; complaints against three advertising and publishing organizations. Ptr Ink 130:17-20+ Ja 1 '25
Federal trade commission turns its hand to constructive work. Sales Management 7: 1485-6+ S '24
Friendless Federal trade commission. A. R. Marsh. Econ W n s 28:687-8 N 15 '24
How industries are cleaning up with federal aid. Ptr Ink 125:145-6+ D 13 '23
How the Federal trade commission curbs false advertising. Ptr Ink 125:78+ N 8 '23
New policy. W. E. Humphrey. Aera 13:1892-9 Je '25; Same cond. Nation's Business 13: 17-18 Je 5 '25; Same cond. Nat Pet N 17:82-3 O 28 '25
New ruling liberalizes procedure and will facilitate Commission's work. Index p 4-6 Ap '25
Persistence of federal trade publicity. Ptr Ink 131:92+ My 7 '25; Sales Management 8:750 My 16 '25; Iron Age 115:1411 My 14 '25; Comm & Fin 14:1030 My 27 '25
Recent federal trade cases. Published in monthly numbers of Nation's business
Regulating business. Nat City Bank p 28-31 F '24; Same. Econ W 113:184-6 F 9 '24
Rulings of the Federal trade commission in 1923 that affect 1924 sales policies. J. True. Ptr Ink 126:69-70+ Ja 31 '24
Sales policies and the Federal trade commission. J. T. Young. Ann Am Acad 115:21-31 S '24
So it may help without harming. A. B. Williams. Am Bankers Assn J 17:564-5 Mr '25
Some recent federal trade cases. Published in monthly numbers of Nation's business
Supreme court rules against the Federal trade commission in the American tobacco and Lorillard cases. Ptr Ink 126:53-4+ Mr 20 '24
Taboo list of the Federal trade commission. Ptr Ink 129:41-2+ D 25 '24
Trade commission amends charge against A.A.A.A. Sales Management 9:483 O 17 '25
United States Supreme court denies power of Federal trade commission to direct "fishing expedition" into tobacco companies; text. Comm & Fin Chr 118:1344-5 Mr 22 '24
United typothetæ of America and the Federal trade commission. J. L. Engle. Paper Tr J 77:53-6 N 29 '23
What the Federal trade commission did to me. H. V. Elliott. Nation's Business 13:13-15 N '25
When the Federal trade commission says you must sell. Ptr Ink 128:57-8+ S 25 '24
Where the Federal trade commission failed. W: C. Redfield. Nation's Business 13:28-30 My '25

FEDERAL trade commission—*Continued*
Why the Federal trade commission is feared and distrusted. R. W. Johnson. Sales Management 6:911-12+ My '24; Discussion. 7: 1240-1+ Jl '24
Will Congress abolish the Federal trade commission? Ptr Ink 132:73-4+ Jl 9 '25

FEDERATED American engineering societies. See American engineering council

FEDERATED Malay states
See Railroads—Federated Malay states

FÉDÉRATION aéronautique internationale. See International aeronautic federation

FEED mechanism
Automatic feed control for grinding mills. il diag Chem & Met Eng 31:22-3 Jl 7 '24
Automatic punch-press feed operated by a magnet. W. A. Richards. diags Am Mach 62:704-5 Ap 30 '25
Automatic stock-feeding furnace. A. L. Greene. il diags Mach 31:765-7 Je '25
Design of a special tap for automatic feed. A. L. Greene. il Am Mach 62:762 My 14 '25
Design of magazine carriers and slides. A. A. Dowd. diags Mach 30:931-4 Ag '24
Designing automatic packing machinery. A. A. Dowd. diags Mach 31:463-6 F '25
Device for feeding taper rolls. G: F. Schaefer. Mach 31:896 Jl '25
Feeding devices for automatic machinery. A. A. Dowd. diags Mach 31:295-8, 859-63 D '24, Jl '25
Hopper feed for round sheet-metal blanks. S. C. Hills. diags Mach 31:91-2 O '24
Importance of feeders for conveyors. M: W. Potts. diags Ind Management 69:56-62 Ja '25
Littell automatic magazine feed. il Iron Age 116:891-2 O 1 '25; Am Mach 63:567-8 O 1 '25; Mach 32:163 O '25
Method of machine tool design. A. L. DeLeeuw. diags Am Mach 60:621-4, 933-5; 61: 317-20, 341-3, 431-3 Ap 24, Je 19, Ag 21-28, S 11 '24
More ways to put gravity to work. A. L. Greene. il Factory 34:928-9 Je '25
Ratchet feed mechanism. diags Mach 30:967-8; 31:53 Ag-S '24
Trips and control dogs for machine tools. F. Horner. diags Mach 32:6-10 S '25

Lubrication
Lubricating kink helps in automatic feeding of material. A. L. Greene. Ind Eng 83:394 Ag '25

FEED water
Analyzing a case of pitting. F. F. Vater. Power Pl Eng 28:1137-8 N 15 '24
Automatic weigher gives record of boiler water. il diags Power Pl Eng 29:1073-4 O 15 '25
Boiler compound feeder. H. G. Hammond. diag Power Pl Eng 28:352 Mr 15 '24
Boiler feed system in sugar refinery. C. C. Brown. plan Power Pl Eng 28:428-31, 482-5 Ap 15-My 1 '24
Control of power production. C: L. Hubbard. il diags Factory 34:606-10+ Ap '25
Corrosion by acid water. D. H. Jackson. Power 58:217 Ag 7 '23; Same. Locomotive 35:8-11 Ja '24
Cost of boiler feed water. J. T. Beard. il Paper 33:5-7 F 7 '24
Dirty feed water cuts turbine blades. L. R. Wagner. il Power 60:1065-6 D 30 '24; Discussion. C. L. Orr. 61:348 Mr 3 '25
Droughts and feed water. il Locomotive 35: 98-101 O '24
Feed-water analysis, treatment and control; proposed as an addition to the A.S.M.E. boiler construction code. Power 62:224-6 Ag 11 '25
Furnishing water to boilers in cold weather. S. Van Pelt. Eng N 94:287 F 12 '25
Gas-fired boiler feed system. il diag Gas Age 54:835-6 D 13 '24
Good feed piping prevents many boiler troubles. C. C. Hermann. plans Power Pl Eng 29:692-3 Jl 1 '25
Locomotive boiler water circulation. C. A. Seeley. Ry R 76:610-11 Mr 28 '25
Lowering oxygen in water reduces corrosion. C: E. Colborn. Power Pl Eng 27:1225-6 D 15 '23
Measuring the feed water in a boiler test. J. W. Gavett, jr. diags Power 59:567-8 Ap 8 '24
On being kind to boilers; feed water is the diet—watch it! N. Lee. diags Power 62:569-71 O 13 '25
Power plant chemistry; abstract. W. M. Miles. Elec R (Lond) 94:1061; Discussion. 1061-2 Je 27 '24
Program for study of waters used for boiler feed. Am Water Works Assn J 13:336-43 Mr '25
Proposed rapid methods of water analysis for boiler purposes (applicable to railroads and small steam plants) with interpretation of results. Am Water Works Assn J 14:107-15 Ag '25
Das verhalten von eisen, rotguss und messing in salzhaltigen wässern bei gewöhnlicher temperatur und bei den im dampfkessel herrschenden temperaturen und drücken. O. Bauer. il diags Stahl & Eisen 45:1101-9 Jl 9 '25

See also Boiler scale; Feed water heaters; Feed water purification; Feed water regulation; Feed water regulators; Pumps, Feed water; Railroads—Water supply

Analysis
See Water—Analysis

FEED water heaters
Analysis of feed water heating devices. E. P. Gangewere. Ry Mech Eng 98:409 Jl '24
Control of power production. C: L. Hubbard. il diags Factory 34:606-10+ Ap '25
Exhaust steam condensed in open feed-water heaters. L. G. Jones. chart Power 61:951 Je 16 '25
Feed-water heaters for regenerative heating. diags Power Pl Eng 29:822 Ag 1 '25
Improved feed water heaters. diags Power Pl Eng 28:98 Ja 1 '24
New type feedwater heater installed in gulf tug boats. diag Marine Eng 29:604 O '24
Novel feed water heater. diag Power Pl Eng 28:563 My 15 '24
Open vs. closed feed water heaters. C. C. Brown. Power Pl Eng 28:234 F 15 '24
Power economies through heaters and economizers. F. Juraschek. il diags plan Ind Management 70:178-82 S '25
Le réchauffage de l'eau d'alimentation des chaudières de locomotives. Génie Civil 86: 384-7 Ap 18 '25
Report of committee on feedwater heaters. Ry Age 76:1320-1 My 31 '24; Same. Ry Mech Eng 98:472-3 Ag '24
Report of committee on feed water heaters. diags Ry R 77:853-9 D 5 '25; Same cond. Ry Age 78:1391-3 Je 6 '25; Same. Ry Mech Eng 99:457-61 Jl '25
Superheated steam used directly in closed heaters. B. C. Sprague. Power 59:160-1 Ja 29 '24; Discussion. 59:498, 917 Mr 25, Je 3 '24

Manufacture
Feed-water heaters difficult to machine. il Iron Age 114:1605-7 D 18 '24

Testing
Nozzle for testing feed-water heaters. diag Ry Mech Eng 99:330 Je '25

FEED water heating
Adapting evaporators to heat balance. E. H. Chapin. diags Power Pl Eng 28:588-91 Je 1 '24
Advantages of feed-water heating by stage bleeding. R. W. Booze. diag Power 62:211-12 Ag 11 '25
Automatic heat balance control. W. A. Kates. diags Elec W 85:1025-7 My 16 '25
La conservation des bouilleurs-réchauffeurs d'eau d'alimentation des chaudières. diag Génie Civil 87:359 O 24 '25
Economical use of evaporators on shipboard. L. B. Chapman. diag Marine Eng 30:216-19 Ap '25

FEED water heating—*Continued*
Economy characteristics of stage feedwater heating by extraction. E. H. Brown and M. K. Drewry. Mech Eng 46:118-22 Mr '24; Abstract. Power 58:896-8 D 4 '23
Economy secured by heating feed water. C. E. Colborn. Power Pl Eng 28:946-7 S 15 '24
Effect of increased feed water temperature. J. R. Darnell. Power Pl Eng 28:131-2 Ja 15 '24
Fitting evaporators to the heat balance. R. D. Spear. diags Power Pl Eng 29:480-1 My 1 '25
Heating feed water by stages. C: L. Hubbard. diags Power 62:721-4 N 10 '25
Heating water with exhaust steam. W. H. Wakeman. diags Power 60:658 O 21 '24
Increasing the efficiency and capacity of existing steam power plants. A. Davidson. diags Power 61:733-4 My 12 '25
Locomotive feedwater heating. L. G. Plant. plan Ry Age 78:468-71 F 21 '25; Excerpts. Ry Mech Eng 99:206-8 Ap '25
Neue versuche mit der Dabeg-lokomotivfahrpumpe mit abdampfeinspritzvorwärmer. Ehrenfest-Egger. Zeit Ver Deutsch Ing 68:975-6 S 13 '24
Present practice in locomotive feedwater heating. J: M. Lammedee. il diags Ry R 75: 869-73 N 29 '24
Pressure reducing valve regulates auxiliary water supply to heater. A. D. Downing. diag Power 58:916 D 4 '23
Quality of bled steam. Power 60:493 S 23 '24
Regenerative feed heating by superheated steam. T: B. Morley. Engineer 138:544-5 N 14 '24; Abstract. Mech Eng 47:129-30 F '25
Regenerative or stage bleeding cycle. J. Razek. plans Power Pl Eng 29:323-6 Mr 15 '25
Relative merits of stage feed water heating and auxiliary exhaust heating as employed in central stations. Power Pl Eng 28:149-52 Ja 15 '24
Why stage heating saves fuel. diag Power 61:431-2 Mr 17 '25

See also Fuel economizers

FEED water pumps. See Pumps, Feed water

FEED water purification
L'alimentation des générateurs avec de l'eau distillée par thermo-compresseur. diag Génie Civil 86:391 Ap 18 '25
A.B.M.A. committee advocates use of A.S.M.E. suggested alkalinity ratio. Power 62:35 Jl 7 '25
Ammoniacal liquor for softening water; abstracts. Chevalet. Gas J (Lond) 163:735 S 12 '23; Am Gas J 119:634+ D 15 '23
Analyses of boiler compounds. Power 60:859 N 25 '24
Apparatus for control of boiler water treatment based on chemical equilibrium. R. E. Hall, H. A. Otto and H. A. Jackson. il diags Ind & Eng Chem 17:409-11 Ap '25
Apparatus for preventing boiler scale; British Empire exhibition. il diags Engineering 117: 623 My 9 '24
Bad water made suitable for domestic and power-plant use by treatment and purification. F. L. Serviss. il diag plan Coal Age 26:398-402 S 18 '24
Benefits of better water on M-K-T. J. H. Davidson. il map Ry Age 79:445-7 S 5 '25
Boiler-feedwater purification. A. S. Behrman. Mech Eng 47:909-10 N '25
Boiler-feed water treatment. H. H. Force. Power 62:22 Jl 7 '25
Boiler feed-water treatment. C. R. Ragsdale. Power 60:467 S 16 '24
Boiler-water problem. W: M. Booth. Power 60:410-12 S 9 '24
Chemistry of interior boiler water treatment. E. M. Partridge. Am Water Works Assn J 12:288-94 N '24
Colloidal purification of feed water. C. H. S. Tupholme. Power Pl Eng 29:281 Mr 1 '25; Discussion. 29:402, 660, 760 Ap 1, Je 15, Jl 15 '25
Corrosion and scaling in modern boiler practice. Chem Age (Lond) 10:sup26-7 Ap 5 '24
Deaeration of boiler feed water. C. H. S. Tupholme. diag plans Power Pl Eng 29:478-9 My 1 '25
Le dégazage de l'eau d'alimentation des chaudières; installation de la centrale d'Aulnoye (Nord). C: Dantin. il diags Génie Civil 86: 573-6 Je 13 '25
Distilled feed water helps boiler equipment. G: H. Gibson. il diags Power Pl Eng 29:531-3 My 15 '25
East Durham water for boiler and other purposes. W. G. Carey. Soc Chem Ind J 44: 286-90 Je 12 '25
Les eaux industrielles. G. Paris. il diags Chimie & Ind 9:439-53 Mr '23; Discussion. P. Valentin. 10:1043-4 D '23
Effect of water conditions upon lengthened locomotive runs. L. F. Wilson. Ry R 74: 848-9 My 10 '24
L'épuration chimique des eaux d'alimentation des locomotives sur le réseau P.-L.-M. diag Génie Civil 87:67-8 Jl 18 '25
Evaporators furnish distilled make-up water. il diags Power Pl Eng 28:485-8 My 1 '24
Feed-water treatment; the use of colloids. Elec R (Lond) 96:250 F 13 '25
Filtrator provides new method of treating boiler water. il diag Marine Eng 30:640 N '25
Filtrator treatment of boiler water. diag Power 61:118 Ja 20 '25
General methods of water purification for industrial purposes. B. Heastie. Engineer 137: 225-6; Discussion. 234 F 29 '24
Ghost in the power plant. W: M. Griffin. il Power Pl Eng 29:427-9 Ap 15 '25
Hot water softener saves over $7,000 a year. J. E. Durfee. Power 60:11 Jl 1 '24; Discussion. G. B. Randall. 60:224 Ag 5 '24
Internal treatment of boiler water—proper and improper. D. K. French. Ind & Eng Chem 15:1239-43 D '23; Discussion. 16:206-7, 421-3 F, Ap '24
Investigation of boiler-water treatment. R. E. Hall. Power Pl Eng 28:843-5 Ag 15 '24
Keeping boilers permanently free from scale. W. J. Hughes. il Gas Age 55:637-40, 673-5 My 2-9 '25
Methods and principles of water softening. N. Simpkin and A. Dawe. Gas J (Lond) 169:735 Mr 25 '25
Un nouveau point de vue sur le traitement des eaux de chaudières. H. A. de Conty. Génie Civil 86:632-3 Je 27 '25
Paper mill treats feed water twice. il diags Power Pl Eng 28:417-24 Ap 15 '24
Permutit process of softening water for use in waste-heat boilers. E. Brooke-Pike. Gas J (Lond) 171:674-5 S 16 '25; Discussion. 171: 732 S 23 '25
Physical side of concentration in boilers. R. W. Andrews. Power 61:37-8 Ja 6 '25; Discussion. W. A. Becker. 61:584-5 Ap 14 '25
Practical pointers in the art of softening boiler-feed water. L. L. Baker. Power 62:479-80 S 29 '25
Prevention of scale formation by boiler water conditioning; abstract. R. E. Hall, C. Fischer and G: W. Smith. Am Water Works Assn J 13:691-3 Je '25
Prevention of scale formation by water treatment is important. G: M. Massen. Nat Pet N 16:81+ Ag 6 '24
Profits from feed water treatment. H. S. Mead. Power Pl Eng 28:192-3 F 1 '24
Pure water yields boiler profits. F. Juraschek. il diags Ind Management 70:225-9 O '25
Purification of feed water containing oil. C. E. Joos. Power Pl Eng 28:1244-7 D 15 '24
Raw water distilling plants for producing distilled boiler feed make-up water. J. Price. 4th ed. 43p Griscom-Russell co., New York '24
Reagents for feed water. Power Pl Eng 27: 1184 D 1 '23
Removal of oil from condensate. A. E. Walden. Power Pl Eng 28:594-5 Je 1 '24
Rock Island tests new boiler water chemical. Ry Age 76:1775-6 Je 21 '24
Soda ash as a boiler compound. diags Power Pl Eng 28:968, 1068-9, 1112 S 15, O 15-N 1 '24
Softening our water saves 1,200 tons of coal. Factory 34:800+ My '25

FEED water purification—*Continued*
Some aspects of the boiler feed question. D. W. Jones. Elec R (Lond) 94:47-8 Ja 11 '24
Some aspects of the boiler feed water problem in central steam heating plants; abstract. Power 60:345 Ag 26 '24
Sphere of boiler compound—colloid chemistry and scale prevention. E. M. Partridge. Power 60:56-9 Jl 8 '24
System of boiler water treatment based on chemical equilibrium. R. E. Hall. diag Ind & Eng Chem 17:283-90 Mr '25
Three pounds of soda ash daily saves boiler tubes in New Orleans plant. P. F. Hoots. il diag Power 61:899-902 Je 9 '25; Discussion. W. H. Burton. 62:419-20 S 15 '25
Treated water increases locomotive efficiency. R. C. Bardwell. Ry R 77:669-71 O 31 '25; Excerpts. Ry Age 79:769-70 O 24 '25
Treating railway water supplies in Iowa. C. R. Knowles. il Am Water Works Assn J 13: 284-92 Mr '25
Treatment of a boiler feed water by a zeolite softening system. S. T. Powell and J. H. Wolfe. Ind & Eng Chem 17:584-5 Je '25
Treatment of boiler feed water. D. Brownlie. Soc Dyers & Col J 41:244-7; Discussion. 247-8 Jl '25
Treatment of condensing water. H. W. Coulson. Engineer 137:233; Discussion. 234 F 29 '24
Treatment of feed water; report of prime movers committee. Power 62:381-2 S 8 '25
Two methods of feeding boiler compound. G. M. Phinney. diags Power 62:495 S 29 '25
Water purification for industrial purposes. J. P. O'Callaghan. Engineering 117:286-7 F 29 '24; Excerpts. Engineer 137:233-4 F 29 '24; Discussion. Engineering 117:267-8 F 29 '24; Engineer 137:234 F 29 '24
Water treatment at Cahokia. E. H. Tenney. il diag Power 59:647-8 Ap 22 '24
Water treatment for continuous steam production. R. E. Hall. il Mech Eng 46:810-17 pt 2 N '24; Abstract. Power 60:930-1 D 9 '24
Water treatment for railroads discussed by chemical engineer. W. M. Barr. Eng & Contr (Ry) 62:867-71 O 15 '24
Water treatment on the Chicago & Alton R.R. L. O. Gunderson. il Ry R 75:571-5 O 18 '24
See also Boilers—Electrolytic protection; Water softening

FEED water regulation
Feed water regulation effects saving. Power Pl Eng 28:1261-2 D 15 '24
Feed-water regulation makes boilers safer. Power 62:125 Jl 28 '25
Irregular boiler feeding lowers efficiency. J. D. Morgan. Power Pl Eng 28:692-3 Jl 1 '24; Discussion. H. D. Fisher. 28:1068 O 15 '24
Mechanical control of boiler feed water. C. E. Wolff. il Power Pl Eng 28:277-8 Mr 1 '24
Where automatization is most important. E. J. Pearson. il Factory 34:792+ My '25

FEED water regulators
Big little things in power plant practice. R. B. Williams. Gas Age 55:861-2 Je 20 '25
Crosby boiler feed regulator. diags Engineering 120:164 Ag 7 '25
Feed-water regulation. C. L. Hubbard. diags Power 61:456-8 Mr 24 '25; Discussion. G. J. Copes. 61:622-4 Ap 21 '25
Feeding and blowing down boilers. Power Pl Eng 28:92-3 Ja 1 '24
Savings effected by boiler feed-water regulators. Elec W 84:524-5 S 13 '24
Water feeders. E. Williams. il Dom Eng 112: 30+ Ag 29 '25

FEEDING and feeding stuffs
Chemical study of legumes and other forage crops of western Oregon. J. S. Jones and D. E. Bullis. (Bul. 197) 24p Oregon Ag. exp. sta., Corvallis '23
Commercial feeds; a hand book for the buyer and seller. W. H. Strowd. 288p The Strowd co., Madison, Wis. '25
Indianapolis developments in garbage reduction. E. W. McCullough. Munic Eng 67:125-8 Mr '24
Mineral nutrient requirements of farm animals. (Reprint and Circ. Ser 60) 12p 20c National research council, 1701 Massachusetts av., Washington, D.C. '24
Scientific nutrition and the farm output. E. V. McCollum. Ann Am Acad 117:258-64 Ja '25
Some aspects of the mineral metabolism of farm animals. W. Godden and A. D. Husband. bibliog Soc Chem Ind J (Chem & Ind) 44:671-4 Jl 3 '25
See also Hay; Silage; *also* Purina mills, inc.

FEET. See Foot

FEHLING'S solution
Preparation of Fehling's solution for the volumetric determination of reducing sugars. J. H. Lane and L. Eynon. Soc Chem Ind J 44:150-2 Ap 3 '25

FELD process. See Coke-oven gas

FELDSPAR
Advocates tariff on crude feldspar. Eng & Min J 120:301, 461, 663-4 Ag 22, S 19, O 24 '25
Big increase in feldspar production in 1924. Eng & Min J 120:50 Jl 11 '25
Classification and specification of feldspar for use in various industries. J. Turner. Am Cer Soc J (Bul) 6:367-70 D '23
Eastern pottery manufacturers investigate feldspar properties in South. V. V. Kelsey. Manuf Rec 88:83 O 8 '25
Feldspar. J. B. Shaw. Chem & Met Eng 29: 1202 D 31 '23
Feldspar milling. W. H. Landers. Am Cer Soc J (Bul) 7:300-5 Ag '24
Physico-chemical theory of metasomatism. H. C. Boydell. Econ Geol 20:388-91 Je '25

Analysis
Rapid means for the determination of quartz content of feldspar. M. C. Booze and A. A. Klein. Am Cer Soc J 6:698-703 Je '23; Same, without il. Can Chem & Met 7:278-9 N '23; Discussion. Am Cer Soc J 6:704-5 Je '23

Testing
Rapid check-testing for feldspar for use in vitrified floor tile. N. A. Ragland. Am Cer Soc J 8:391-2 Je '25

FELLOWSHIPS. See Scholarships and fellowships

FELT
See also Dyes and dyeing—Felt

Manufacture
Making felt from waste. A. W. Allen. il Chem & Met Eng 30:45-8 Ja 14 '24
Pioneer paper co. builds felt mill at Los Angeles; manufactures roofing felt, sheathing paper and light weight chip board. il Paper Tr J 79:43-4 O 30 '24
Present status of sanitation in the felt hat industry in the Province of Podolsk, government of Moscow; abstract. A. Smirnov. J Ind Hygiene 5:sup207-9 Mr '24

FELTON, Samuel M.
S. M. Felton elected chairman of Great Western. por Ry Age 79:853-5 N 7 '25

FELTS (paper making)
Asbestos drier felts. R. Hueckler. Paper Tr J 80:46 Ja 8 '25
Asbestos dryer felt. H. N. Hill. Paper 35:112 F 12 '25
Asbestos dryer felt introduced. Paper 33:40 Ap 17 '24
Asbestos felt and cotton felt. H. N. Hill. Paper 35:241 N 27 '24
Cleansing of paper makers' felts. C. T. Hamill. Paper 33:5-8 Ja 10 '24
Drier canvas. diag Paper Tr J 80:46 Je 18 '25
Dry felt rolls. il diags Paper 35:669-70 F 5 '25
Felts and mechanism of water removal. E. A. Rees. il Paper 33:6-10 Ja 31 '24

FELTS (paper making)—*Continued*
How to run felts most efficiently. H. Deffew. Paper Tr J 78:53 Ja 3 '24
Making of dry felts. il diags Paper Tr J 80:53-4 Mr 12 '25
Paper machine felt and press rolls. H: F. Obermanns. Paper 33:174+ Ap 17 '24
Paper makers' felts. A. H. Theurer. Paper 33:9-10+ N 15 '23
Paper making felts. J. Reginier. il diags Paper Tr J 77:47-54 D 20; 43-8 D 27 '23; 78: 49-51 Ja 3 '24
Vickery felt conditioner. P. Dennett. Paper 34:43-4 My 1 '24
A wet felt tells its story. A. G. Knapp. Paper 35:5-7 O 23 '24

Testing

Testing the porosity of papermakers' felts. Paper Tr J 80:45 F 12 '25

FENCE posts
Fence post tests on Santa Fe. Eng & Contr (Ry) 62:1351-2 D 17 '24

FENCE posts, Concrete
Concrete fence posts. Concrete 26:141-2 Ap '25
Method of casting and setting concrete posts. il Eng & Contr (G C) 64:896-9 O 21 '25

FENCE posts, Steel
Large uses of steel in small ways. il Iron Tr R 75:428-9 Ag 14 '24

FENCES
Architectural monograph on fences and fence posts of colonial times. A. Hopkins. 16p White pine bureau, St. Paul '22
Some garden fences. D. R. Van Horn. il Bldg Age 46:68-9 O '24

FENCES, Steel
Outside protection; value of steel fence in property protection. A. C. Carruthers. il Safety Eng 49:57-61 F '25

FENCHYL alcohol
Alcohols of the hydroaromatic and terpene series α- and β-fenchyl alcohols and some esters derived therefrom. J. Kenyon and H. E: M. Priston. Chem Soc J 127:1472-87 Je '25

FENDERS, Automobile. See Automobiles—Fenders

FENDERS, Car. See Car fenders

FENDERS, Floating
Cost and design of floating fenders. H. W. Ordeman. il Marine R 55:16-17 Ja '25

FERMENTATION
Fermentation of natural fruit juices. B. A. Dunbar and C. F. Wells. Ind & Eng Chem 16:739-40 Jl '24
Fermentation of sulphite waste liquors. E. Haegglund. Paper Tr J 80:43-5 Je 25 '25
Ferments and their work in the organism. Sci Am 131:256 O '24
Men and manners; the truth about fermentation. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 44:73-5 Ja 23 '25
Panary fermentation. C. B. Morison. Ind & Eng Chem 15:1219-21 D '23
Rates of fermentation of sugars by the propionic organism. E. O. Whittier, J. M. Sherman and W. R. Albus. Ind & Eng Chem 16:122 F '24

See also Alcohol—Manufacture; Enzymes; Yeast

Bibliography

Les industries de la levure. C: Schweizer. Chimie & Ind 12:623-37 O '24

FERRANTI, S. Z. de
Presentation of the Faraday medal to Dr S. Z. de Ferranti. Elec R (Lond) 94:730-1 My 2 '24; Electrician 92:540-1 My 2 '24

FERRIC hydroxide. See Iron hydroxides

FERRIÉ, G.
Presentation of the Franklin medal and certificate of honorary membership. J Fr Inst 196:803-20 D '23

FERRO alloys. See Iron alloys; *also* names of alloys, e.g. Ferrochromium, Ferromanganese, Ferrosilicon, etc.

FERROCHROMIUM
Chromium—its uses and its alloys. W. M. Mitchell. il Blast F & Steel Pl 12:452-5 O '24
Ferro-alloys. F: M. Becket. Ind & Eng Chem 16:199-201 F '24; Same. Chem & Met Eng 30: 316-18 F 25 '24
Marked progress being made by use of special alloy materials for mine-pump parts. E. J. Gealy. il Coal Age 27:251-4 F 12 '25
Production of chromates from ferro-chromium anodes. M. deK. Thompson. Am Electrochem Soc Trans v 46 (preprint 3):37-50 O '24

See also Iron, Stainless

FERROCYANIDES
Effect of complex formation on oxidation potentials; the influence of the cyanide-ion on the ferrocyanide-ferricyanide potential. J. A. V. Butler and G: P. Davies. Chem Soc J 125:1101-6 My '24
Estimation of ferrocyanides. W: M. Cumming. Chem Soc J 125:240-3 Ja '24

See also Hydroferrocyanides

FERROMAGNETISM. See Magnetism

FERROMANGANESE
Ferromanganese supplies. Iron Age 112:1584 D 13 '23

FERROPHOSPHORUS
Ferro-phosphorus production in the electric furnace. T: Swann. Chem Age 32:469-70 N '24; Same. Iron Age 114:1469-70 D 4 '24; Same. Iron Tr R 75:1714+ D 25 '24
How ferrophosphorus is produced in the blast furnace. J. A. Barr. Iron Tr R 75:1715+ D 25 '24

FERROSILICON
Ferro-alloys. F: M Becket. Ind & Eng Chem 16:197-9 F '24; Excerpts. Chem & Met Eng 30:186-8 F 4 '24
Quantitative determination of iron existing as ferrosilicon in artificial corundum. R. A. Heindl. Am Cer Soc J 8:671-6 O '25
Untersuchungen über technisches ferrosilizium. M. Bamberger, O. Einerl and J. Nussbaum. Stahl & Eisen 45:141-4, pl 3 Ja 29 '25

See also Duriron; Iron silicon alloys

Analysis

Explosion method for peroxide fusions. W. F. Muehlberg. Ind & Eng Chem 17:690-1 Jl '25

FERROTUNGSTEN
Ferro-alloys. F: M. Becket. Ind & Eng Chem 16:201-2 F '24; Same. Chem & Met Eng 30: 391-2 Mr 10 '24
Making ferrotungsten. Iron Age 112:1656 D 20 '23

FERROUS hydroxide. See Iron hydroxides

FERROVANADIUM
Electric furnace for making ferrovanadium. A. P. Child. il Iron Age 115:696 Mr 5 '25
Ferro-alloys. F: M. Becket. Ind & Eng Chem 16:203-4 F '24; Same. Chem & Met Eng 30: 392-3 Mr 10 '24
Manufacture of ferro-vanadium by electric furnace. E. K. Scott. il Engineer 136:636-7 D 14 '23
Marketing of vanadium ores and metal. F. L. Hess. il Eng & Min J 118:697-8 N 1 '24

FERRY terminals
New ferry terminal includes advanced designs; Reading installation at Camden, N.J. F. Jasperson. il plan Ry Age 76:1249-52 My 24 '24
Reading company opens new terminal at Camden, N.J. il diags plan Ry R 74:871-6 My 17 '24; Same. Eng & Contr (Ry) 61:1332-8 Je 18 '24

FERRYBOATS
Application of electric propulsion to double-ended ferry-boats. A. Kennedy, jr. and F. V. Smith. Am Inst E E J 54:1077-82 O '25; Same. Marine Eng 30:559-62 O '25
Automobile capacity of ferryboats doubled. il Marine Eng 29:434 Jl '24

FERRYBOATS—*Continued*
Automobile ferry boat Hampton Roads enters service. il plans Marine Eng 30:485-7 S '25
Ferry boats with turbo-electric drive. il Sci Am 130:389 Je '24
Frisco passenger ferry of record size. il Marine R 54:293 Jl '24
New ferryboat to be built for New York city. plans Marine Eng 30:609-11 N '25
New steam ferry Bataan for Manila Bay service. R. Martinez. il diags plans Marine Eng 30:547-50 O '25
New York orders six ferryboats. diag Marine R 54:282-3 Jl '24
Novel electric ferryboat in operation on the Willamette. Elec W 84:1301 D 20 '24
Ohio river ferryboat to be equipped with Diesels. Power 61:438 Mr 17 '25
Oil-engine driven ferryboat. W: H. Hoffman. il Power 59:53-4 Ja 8 '24
Twin-screw ferry boat Kathleen. il Engineer 139:662-3 Je 12 '25

See also Automobile ferries; Train ferries

FERTILIZER industry
Better times ahead for the fertilizer industry. G. Ober, jr. Chem & Met Eng 30:92 Ja 21 '24
Etat actuel de l'industrie des engrais chimiques. Génie Civil 86:541 My 30 '25
Fertilizer association favors cost system. Oil Paint & Drug Rep 108:21+ Jl 20 '25
Fertilizer industry emerges from depression. E. M. Grose. Can Chem & Met 9:112-13 My '25
Fertilizer industry on the mend. C. F. Hagedorn. Chem & Met Eng 32:90 Ja 19 '25
Fertilizer materials: market review. Oil Paint & Drug Rep 105:96 Mr 20 '24
Fertilizer materials; market review. Oil Paint & Drug Rep 107:93-4 Mr 26 '25
Fertilizers production gained slightly in 1923. Oil Paint & Drug Rep 106:44 D 29 '24
Fertilizer trade. Moody's Inv Serv 17:362 N 5 '25
Fertilizer use in the United States. S. B. Haskell. Ann Am Acad 117:265-70 Ja '25
Fertilizers; production, consumption, and trade in various foreign countries. H. A. Curtis. U S Bur For & Dom Com Trade Information Bul 305:1-40 '25
French fertilizer trade up in 1924. Oil Paint & Drug Rep 108:67 Jl 27 '25
Increased use of commercial fertilizers and mineral fertilizers in Arkansas. T. Shiras. Manuf Rec 88:85-6 O 15 '25
National fertilizer association; new organization with same name takes over body formed in 1876. G. Ober, jr. Oil Paint & Drug Rep 107:50+ Je 15 '25
Plans for the consolidation of the Southern fertilizer association and the National fertilizer association perfected at an important meeting. Oil Paint & Drug Rep 107:19 Mr 23 '25
Present and future position of the fertilizer industry. Moody's Inv Serv 16:173-6 Ap 24 '24
Present position of the fertilizer industry. Econ W n s 30:331-3 S 5 '25
Story of the origin and development of the fertilizer industry. C: A. Whittle. Manuf Rec 86:201-4 pt 2 D 11 '24
Technical developments of the fertilizer industry. Chem & Met Eng 32:107-8 Ja 19 '25
Trend of conditions in past season. G. Ober, jr. Oil Paint & Drug Rep 105:20+ Je 23 '24; Abstract. Chem & Met Eng 30:1015-16 Je 30 '24
World's fertilizer output. Chem Age (Lond) 10:65 Ja 19 '24

FERTILIZERS
Agricultural value of some of the newer nitrogenous fertilizers. J. G. Lipman and H. C. McLean. Ind & Eng Chem 17:190-2 F '25
Ammonium sulphate as a fertilizer. Gas J (Lond) 168:786 D 17 '24
Basic slag as fertilizer. F. W. Carnahan. Eng & Min J 119:893 My 30 '25
Bone products and manures. T: Lambert. 3d ed., rev. and enl. 292p Van Nostrand '25
Chemical changes occurring in calcium cyanamide acid phosphate mixtures. K. D. Jacob and J. M. Braham. bibliog Ind & Eng Chem 17:64-8 Ja '25
Chemical fertilizers in 1923. S. Williamson. Chem Age (Lond) 9:716-17 D 29 '23
Chemistry in its relation to agriculture. E. Holmes. Chem Age (Lond) 12:226, 251, 275 Mr 7-21 '25
Chile nitrate and synthetic fertilisers. Chem Age (Lond) 12:584 Je 13 '25
Development of fertilizer practice. R. O. E. Davis. Am Electrochem Soc Trans v 48 (preprint 5):49-56 S '25
Explosives and fertilizers. A. H. White. Am Inst Chem Eng Trans v 14:259-70; Discussion. 270-3 '21-'22
Fertilizers and soil fertility. M. Whitney. Am Inst Chem Eng Trans v 15 pt 2:177-82; Discussion. 182-4 '23
Fertilisers containing nitrogen and phosphoric acid. Chem Age (Lond) 12:7 Ja 3 '25
Florida's muck land as a source of fertilizer production. Manuf Rec 85:79 Je 19 '24
Hygroscopicity and cakiness of fertilizer materials. A. B. Beaumont and R. A. Mooney. Ind & Eng Chem 17:635-6 Je '25
Manuring of meadows and pasture land. Chem Age (Lond) 12:530-2 My 30 '25
Nitrogen survey. H. A. Curtis. U S Bur For & Dom Com Trade Information Bul 226:1-63 '24; Same cond. Chem & Met Eng 30:667-70, 703-6, 749-52, 788-90 Ap 28-My 19 '24; Excerpt. Chem Age 32:225-9 My '24
Quality of organic nitrogen in fertilizers. F. E. Bear. Ind & Eng Chem 17:93 Ja '25
La rôle et l'importance de la chaux en agriculture. M. Lenglen. Chimie & Ind 10:1015-25; 11:17-39 D '23-Ja '24
Situation actuelle de l'industrie des produits azotés synthétiques aux Etats-Unis. C. Matignon. il Chimie & Ind 13:845-61 My '25
Sulphur as a soil amendment. C. C. Fletcher. Chem & Met Eng 29:1012 D 3 '23; Same. Eng & Min J 119:535 Mr 28 '25
Sulphur, sulphates, and sulphides as fertilizers. G: Schumacher. Eng & Min J 119: 769-70 My 9 '25
Trend of developments in the nitrogen problem. J. M. Braham. Ind & Eng Chem 16: 1277-80 D '24
Utilization of nitrogen in soils and fertilizers as affected by lime. J. G. Lipman and A. W. Blair. Ind & Eng Chem 16:373-5 Ap '24

See also Agricultural chemistry; Ammonium sulfate; Calcium cyanamide; Calcium nitrate; Cyanamide; Gypsum; Lime; Nitrates; Phosphates; Potash; Sewage irrigation; Sewage sludge as fertilizer; Sodium nitrate; Sulfurophosphate; Urea; *also* American agricultural chemical company

Analysis

Available nitrogen in fertilizers; need of a new method for its determination. J. W. Kellogg. Ind & Eng Chem 16:371-2 Ap '24
Causes of errors in the analysis of high-grade phosphatic materials. R. J. Caro and E. L. Larison. Ind & Eng Chem 17:261-4 Mr '25
Determination of mineral and organic ammonia in fertilizers. F. B. Carpenter and H. L. Moxon. Ind & Eng Chem 17:265-6 Mr '25
Determination of mineral nitrogen in fertilizers. J. E. Breckenridge. Ind & Eng Chem 17:95 Ja '25
Determination of phosphoric acid fertilizers. J. E. Breckenridge. Ind & Eng Chem 16: 1180 N '24

Laws and regulations

New fertilizer regulations in Alabama. W. D. Hurd. Chem & Met Eng 30:467 Mr 24 '24
New legislation on fertilisers and feeding stuffs. Chem Age (Lond) 13:224-6 Ag 29 '25
Protecting fertilizer makers against speculative damage claims. W. Gustin. Chem & Met Eng 31:977 D 22 '24

Manufacture

Fertilizer industry conquering corrosion. flow sheet Chem & Met Eng 31:50-1 Jl 14 '24

FERTILIZERS—Manufacture—*Continued*
Fertilizer symposium at American electrochemical society meeting. Oil Paint & Drug Rep 108:22 S 28 '25
Hydrogen and by-product oxygen in relation to nitrogen fixation and fertilizers. W: G. Allan. il Am Electrochem Soc Trans v 48 (preprint 20):183-207 S '25
Manufacture of fertilizer urea on a tonnage basis. R. S. McBride. flow sheet il Chem & Met Eng 32:791-3 O '25
Muscle Shoals as viewed in reports to the Muscle Shoals commission. Manuf Rec 88: 91-4 Jl 2 '25
Pulverizing fertilizer ingredients. L. H. Sturtevant. il Chem & Met Eng 30:193-5 F 4 '24
Use and preparation of concentrated fertilizers. W: H. Ross. Am Electrochem Soc Trans v 48 (preprint 6):57-63 S '25

Prices

Fertilizer materials. Published in weekly numbers of Oil paint and drug reporter

FESCOL process. See Electrodeposition of metals

FESSENDEN, Reginald Aubrey, 1866-
Fessenden and the press. Radio N 6:1734+ Mr '25
Inventions of Reginald A. Fessenden. Radio N 6:1140-2, 1389+, 1630-1+, 1851-3+, 2054-6, 2216-18+; 7:20-1+, 156-8+, 276-7+, 428-9+, 590-1+ Ja-N '25

FIAT company
Impressive story of Fiat; the plants and their products. J. A. Lucas and F. E. Bardrof. il plan Am Mach 60:603-7, 655-9, 693-6, 763-7, 927-31 Ap 24-My 8, 22, Je 19 '24
Vision and courage built up great Fiat company. O. D. Foster. il Forbes 14:421-4 Jl 5 '24

FIBER board. See Paper board

FIBERS
Fibre as a material in making dust guards. il Ry R 76:1080 Je 13 '25
Papermaking fibers. B. S. Summers. Paper 34:244-6 My 29 '24; Same. Paper Tr J 78:50-4 My 22 '24

See also Cotton fibers; Flax; Hemp; Jute; Linen; Paper making materials; Posidonia australis; Ramie; Silk; Sisal hemp; Textile fibers; Vulcanized fiber

FIDELITY bonds. See Insurance, Surety and fidelity; Suretyship and guaranty

FIELD museum of natural history, Chicago
Description of buildings. C. F. Murphy. il plans Arch Forum 42:65-8, pl 11-12 F '25
Field museum has well equipped printing plant. il Inland Ptr 72:474-5 D '23
Field museum of natural history, Chicago, Illinois. R: F. Bach. il plans Arch Rec 56: 1-15 Jl '24

FIFTH avenue association, New York
Invisible government of Quality street; Fifth avenue association does everything possible to reserve the Avenue for the shopper. E. C. Reeves. il Nation's Business 13:18-20 N '25

FIFTH avenue coach company, New York
Analysis of operations for year ended June 30, 1923. Bus Transportation 3:45 Ja '24
Application to Board of estimate for franchises to inaugurate approximately 116 miles of new motor-coach routes. Comm & Fin Chr 119:946-7 Ag 23 '24
Fifth avenue company report shows slight increase. Bus Transportation 4:154 Mr '25

FIGHTING brand. See Quality of products

FILAMENTS. See Wire

FILENE, Edward A.
Don't block the way to better distribution. E: A. Filene. por Ptr Ink M 9:19-20+ D '24
Italian peace award announced; competition inaugurated by Edward A. Filene of Boston, in Great Britain, France, Germany and Italy. Am Ind 25:11-12 D '24

FILENE'S sons company, Boston
We buy news along with merchandise. L: E: Kirstein. Comm & Fin 14:2199-200 N 11 '25

FILES and filing (documents)
Bank filing. L. L. Davis. Bankers M 110:646-8 Ap '25
Building a data file and putting it to work. R. E. Ramsay. il Inland Ptr 73:581-4 Jl '24
The central file that centralizes. Z. Brown. Burroughs Clearing House 9:13-15+ Ja '25
Creditable filing systems. I: Deutsch. Credit M 27:14-18 F '25
Effective letter filing system. B. Farenwald. il Ry Mech Eng 99:619-20 O '25
Efficient filing system for maps. plan Ry R 76: 768-70 Ap 25 '25
File survey sheet. Management & Adm 9: 175 F '25
Filing and indexing with business procedure. I. Warren, M. C. Lyons and F. C. McClelland. 251p Rand, McNally & co., New York '24
Filing department operation and control. E. E. Scholfield. 318p Ronald press '23; Review by V. Fairfax. Special Lib 15:111-12 My '24
Filing methods. E. Wallace. 107p Ronald press '24
Filing problems solved. E: T. Fanning. Credit M 26:11+ My '24
Filing systems for newspaper clippings; symposium. Special Lib 16:297-304 O '25
Flexible filing system for engineering data. J. Montgomery. diag Eng N 94:892-3 My 28 '25
Indexing and filing articles. Power 59:339, 787-8 F 26, My 13 '24
Keeping track of electros, mounted and unmounted. V. C. Leftwich. Ptr Ink M 8:76+ Ap '24
List of subject headings for information file [Newark Public library]. H. F. Gould and E. A. Grady, comps. 2d ed. 88p H. W. Wilson co. '25
Modern filing manual. E. B. Hunter. 254p Yawman & Erbe mfg. co., Rochester, N.Y. '23
Progressive indexing and filing for schools. D: W. Duffield, comp. 113p Library bur., Cambridge, Mass. '24
Uniform letter filing system. R. E. Lorentz. Ry R 77:61-3 Jl 11 '25
Visible file, the L.B. Speedac. il Management & Adm 8:425 O '24
What kinds of catalogues are kept for reference? G: A. Chapman. il Ptr Ink M 8:62, 65-6 Ap '24

See also Classification, Decimal; Indexing; Pamphlets; Records, Visible; Subject headings

FILES and rasps
Files and rasps. J Fr Inst 198:552-4 O '24
Resharpening files with acid solution. Mach 31:531-2 Mr '25
Some notes on file-making. Cassier's Ind Management 12:494+ O '25

FILING cabinets
Fire resistive protection applied to filing cabinets. A. C. Carruthers. il Safety Eng 47:77-80 F '24

FILLETS, Foundry
Many types of fillets used. W. C. Ewalt. diags Foundry 52:904-5 N 15 '24

FILLING
Blowing sand filling into Champion stopes. M. W. Youngs. Eng & Min J 119:1049 Je 27 '25
Earth pressure against abutment walls measured with soil pressure cells. J. V. McNary. diags plan Pub Roads 6:102-6 Jl '25; Abstract. Pub Works 56:277-9 Ag '25
Fills replace piles under city streets in Astoria, Ore. diags Eng N 94:860 My 21 '25
Houses and pavement on sanitary fills in Seattle. Eng N 95:11 Jl 2 '25
Sanitary fill at Portland. C. A. Bigelow. Pub Works 56:17-18 Ja '25
Steep embankments in Tacoma made by slow filling process. il Eng N 92:372 F 28 '24

FILLING—*Continued*
Tamping, dragging and rolling consolidates new fill. G: G. Bryson. il plan Ry Age 78: 557-60 Mr 7 '25; Same. Eng & Contr (G C) 63:823-7 Ap 17 '25
Vertical pressure of earth fills measured. C. N. Conner. il Pub Roads 6:24 Mr '25; Same. Eng & Contr (G C) 63:834 Ap 17 '25; Same. Pub Works 56:226-7 Je '25
World's largest rock-fill dam built on Dix river. G: W. Howson. il diags Eng N 94: 548-52 Ap 2 '25

See also Causeways; Earthwork; Hydraulic filling

FILLING machines
Vacuum filling machines for liquids and powders. il diag Engineering 119:475-6 Ap 17 '25; Génie Civil 87:66-7 Jl 18 '25

FILLING materials
New ways to use slate. il Sci Am 130:167 Mr '24
Size and character of grains of nonmetallic mineral fillers. W. M. Weigel. il U S Bur Mines Tech Pa 296:1-44, pl 1-14 '24

See also Paper making—Fillers; Pavements—Fillers; Rubber—Fillers

FILM storage
Tentative regulations for the storage and handling of photographic and X-ray nitrocellulose films. Safety Eng 48:38-40 Jl '24

FILMS
Chemistry at interfaces. W: Hardy. Chem Soc J 127:1207-27 Je '25
Effects of gas upon the resistance and resistance-temperature coefficient of sputtered platinum films. F. W. Reynolds. Phys R 24:523-31 N '24
Electron emission from adsorbed films on tungsten. K. H. Kingdon. Phys R 24:510-22 N '24
Incident and emergent velocities of photoelectrons emitted from thin platinum films. Chien Cha. diag Philos Mag 6th ser 49:262-72 Ja '25
Influence of thin surface films on the evaporation of water. G. Hedestrand. diag J Phys Chem 28:1245-52 D '24
Investigation of thin films by means of X-rays; abstracts. W. H. Bragg. il Engineering 119:112-13 Ja 23 '25; Am J Sci 5th ser 10:471-2 N '25
Magnetic properties of thin films of ferromagnetic metals produced by the evaporation method. A. J. Sorensen. diags Phys R 24: 658-65 D '24
Monomolecular films between liquids: butyric acid between water and hexane, and acetic acid between water and benzene. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:1610-13 Je '25
Monomolecular films on water; the oriented adsorption of derivatives of benzene. W: D. Harkins and E. H. Grafton. Am Chem Soc J 47:1329-35 My '25
Non-magnetic films of nickel. L. R. Ingersoll and S. S. DeVinney. Phys R 26:86-91 Jl '25
Popularization effects shown by films of certain fused salts. D. B. Deodhar and G. B. Deodhar. Phys R 22:405-7 O '23
Problems presented by films on solid surfaces. W. B. Hardy. Soc Chem Ind J (Chem & Ind) 44:281 Mr 13 '25
Removal of gas films. W. D. Bancroft. J Phys Chem 29:20-33 Ja '25
Structure of films of water on salt solutions. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:2083-9 Ag '25
Structure of surface films on water. N. K. Adam. bibliog diags J Phys Chem 29:87-101 Ja '25

FILMS, Moving picture. See Moving picture films

FILTER mass. See Filtering materials

FILTER passers
Filter-passers; living beings smaller than bacteria. Sci Am 130:239 Ap '24

FILTER presses
Drying and purifying machines for insulating and other oils. Power 58:802 N 20 '23
Filter press made from a gas engine. V. A. Lyman. il Power 61:346 Mr 3 '25
Filtering twice in same press; patent. Chem & Met Eng 31:158 Jl 28 '24
Improved filter press for the separation of paraffine wax from a suspension of the wax in chilled oil. Chem & Met Eng 29:1108 D 17 '23
Industrial filtration; British chamber and frame presses. S. G. Ure. Soc Chem Ind J (Chem & Ind) 43:136-41 F 8 '24

See also Oil filters

FILTERING materials
Filter mass. G. Bonnet. Paper Tr J 80:47-8 My 28 '25

FILTERING pulp. See Filtering materials

FILTERS and filtration
Buffalo's new filtration plant. G: C. Andrews. il plan Pub Works 55:271-4, 304-8 S-O '24
City of Washington builds nine-mile aqueduct. il plan Eng N 95:91-3 Jl 16 '25
A costly mistake; reservoir stripping at Birkenhead. Eng N 92:435, 542, 737-8 Mr 13, 27, Ap 24 '24
Dam and filter plant at Smith's Falls. E. H. Darling. il diag plans Can Eng 48:453-5 My 5 '25
Design and operation of water purification plants. S. T. Barker and H. F. Ferguson. Am Water Works Assn J 13:150-9 F '25; Same. Eng & Contr (W W) 63:107-12 Ja 14 '25
Double filtration of water in Europe. G. W. Fuller. Eng N 92:205 Ja 31 '24
Effect of flowing water on the stability of sand. C. M. Daily. Eng N 94:649 Ap 16 '25
Effect of the new impounding reservoir on filter plant operation at Decatur, Ill.; with cost tables. W: E. Stanley and E. E. Ruthrauff. Am Water Works Assn J 12:110-26 S '24; Same. Eng & Contr (W W) 61:1076-81 My 14 '24; Excerpts. Pub Works 55:308-9 O '24
8-M.G.D. Sioux Falls iron-removal plant. F. G. Gordon. il diags plan Eng N 91:882-3 N 29 '23
Experience with wood-grating in Sacramento filters. H. N. Jenks. il Eng N 94:634-5 Ap 16 '25
Features of new water filtration plant at Richmond, Va. W. Donaldson. il Eng N 93: 623 O 16 '24
Filter sand for municipal water supply. W. M. Weigel. U S Bur Mines Rep of Invest 2622:1-6 Jl '24 (typew); Same. Eng & Contr (W W) 62:571-4 S 10 '24; Same. Can Eng 48:377-8 Ap 7 '25; Same abr. Pub Works 55: 352-3 N '24
Filters for Chicago's water supply; abstracts. J: Ericson. Pub Works 56:293-4 Ag '25; Eng N 94:782 My 7 '25
Filtration improvements at Watertown, N.Y. F. H. Jennings. Eng & Contr (W W) 63:121-2 Ja 14 '25; Same. N E Water Works Assn J 39:68-70 Mr '25
Filtration plant census, 1924. Am Water Works Assn J 14:123-42 Ag '25
Fineness modulus for filter sand. R: G. Tyler. il Eng & Contr (W W) 64:827-32 O 14 '25
Further studies of water purification by filters charged with aluminum or ferric hydroxide. H. W. Clark. N E Water Works Assn J 38:84-93 Mr '24; Same. Eng & Contr (W W) 61:567-71 Mr 12 '24
Hydrogen ion control in water purification. Eng & Contr (W W) 61:113-14 Ja 9 '24
Importance of filter sand and gravel in filtration plants. A. O. True. Am Water Works Assn J 10:1014-20 N '23
Important problems of filter plant operation. C. W. Smedberg. Am Water Works Assn J 14:32-5 Jl '25
Inexpensive filter device prevents clogging of water mains. R. L. Grimes. diags Coal Age 28:161 Jl 30 '25
Influence of curvature on air saturation of water and its relation to the air-binding of filters. J: R. Baylis. bibliog Ind & Eng Chem 17:974-9 S '25

FILTERS and filtration—*Continued*
Loss of head in closely baffled mixing basin. C. W. Smedberg. diags plan Eng N 94: 476 Mr 19 '25
Mechanical filtration plant at Putnam, Connecticut. F. O. Stevens. il diags plan map N E Water Works Assn J 38:103-10 Je '24
Mechanical filtration plant, Lauzon, Quebec. H. G. Hunter. il Can Eng 46:279-80 F 26 '24
Mechanical filtration plant, Levis, Que. E. Hamel. il Can Eng 47:391-3 O 7 '24
Merritton and Thorold water supply. Can Eng 48:605-6 Je 23 '25
New filtration plant for border cities now under construction at Ford, Ont. W: Storrie. plan Can Eng 46:315-16 Mr 11 '24
New Wheeler false bottom for filters. F. Johnstone-Taylor. diag Can Eng 46:514 My 13 '24
Novelties in the new water filters at Windsor, Ontario. il Eng N 94:655 Ap 16 '25
Operation of slow sand water filters at Hartford, Conn. C. M. Saville. il Eng N 93: 508-9 S 25 '24
Operation of Wheeler filter bottoms. il diag Eng & Contr (W W) 61:564-5 Mr 12 '24
Progress report of committee no. 18 on filter sand analysis; screens and sieves. Am Water Works Assn J 11:677-90 My '24
Progress report of committee no. 18, on filter sand testing and recording. Am Water Works Assn J 14:235-52 S '25
Proposed filtration plant, St Catharines, Ont. diags plans Can Eng 48:205-8 F 10 '25
Rapid sand filtration at Cambridge, Mass. G: A. Johnson. il diags N E Water Works Assn J 37:339-49, pl 1-5 D '23; Same. Can Eng 46:339-41 Mr 18 '24; Discussion. N E Water Works Assn J 37:349-68 D '23
Recarbonization of softened water. N: S. Hill, jr. Am Water Works Assn J 11:393-408 Mr '24
Repairing coagulation basins with cement gun; method and cost of work at Oklahoma City, Okla. A. S. Holway. il Eng & Contr (W W) 60:1004-6 N 14 '23
Sacramento filter plant report advises extensive repairs. Eng N 94:639 Ap 16 '25
Sacramento's filtration plant. il Pub Works 55:51-4 F '24
Sand-bed studies at Montebello water filters, Baltimore. J: R. Baylis. il diags Eng N 92: 516-22 Mr 27 '24; Discussion. 92:563-8, 1094-5 Ap 3, Je 26 '24
Schnellfilteranlage der städtischen wasserwerke Stuttgart. Baer. plan Zeit Ver Deutsch Ing 69:787-8 Je 6 '25
Sensitive detection of suspended matter and a proposed standard of clarity in filtered water. J: R. Baylis. diags Am Water Works Assn J 11:824-32 Jl '24; Same abr. Eng & Contr (W W) 62:369-71 Ag 13 '24; Abstract. Pub Works 55:309-10 O '24
Size and depth of sand for filters. C. M. Daily. Eng & Contr (W W) 62:827-8 O 8 '24
Slow sand filter converted to mechanical type at Putnam, Conn. Eng N 93:255 Ag 14 '24
Small water purification plant for Jacksonville, Texas. H. N. Roberts, jr. il plan Eng N 92:859-60 My 15 '24
Some features of filter design. J. W. Armstrong. diag N E Water Works Assn J 39: 254-66 S '25; Same. Eng & Contr (W W) 64:847-56 O 14 '25; Same. Can Eng 49:535-8 N 10 '25; Same cond. Pub Works 56:420-2+ N '25; Abstract. Eng N 95:470-1 S 17 '25; Discussion. N E Water Works Assn J 39: 266-71 S '25
Studies under way on filter efficiency limitations. H. W. Streeter. Eng N 92:146 Ja 24 '24
Study of flocculation phenomenon with microscope. J: R. Baylis. diags Eng N 92:768-9 My 1 '24
Substructure plan and design; Buffalo filter plant. il diags plans Eng N 94:322-4, 358-62 F 19-26 '25
Treatment and filtration of water. H. W. Clark. Eng & Contr (W W) 63:291-4 F 11 '25
Tricks of the trade in filter plant operation. il Eng & Contr (W W) 62:783-9 O 8 '24
Vest station—Charlotte water works. E. G. McConnell. il Pub Works 56:109-14 Ap '25
Water-works improvements at Wheeling, West Virginia. J. F. Laboon. il diags plan Eng N 92:848-50 My 15 '24
Wood-grating in filters and cemented-gravel layer; symposium. J. W. Ellms and others. Eng N 94:1062-5 Je 25 '25
See also Air filters; Filtrator; Sewage disposal—Filtration; Strainers; Water purification

Cleaning

Caustic soda and soda ash solutions for filter sand wash. F. W. Green. Am Water Works Assn J 12:235-6 O '24; Same. Eng & Contr (W W) 62:1292 D 10 '24
Design of wash water troughs for rapid sand filters. M. F. Stein. Am Water Works Assn J 13:411-15; Discussion. 415-17 Ap '25
Eductors for washing the rapid filters at Zelienople. L. Hudson. Eng N 92:107 Ja 17 '24
Film removal in sprinkling filters. W. Rudolfs. Pub Works 55:344-5 N '24
Method of cleaning filter sand without removal. C. H. Capen. diags Eng & Contr (W W) 61:1283-5 Je 11 '24; Same. Pub Works 55:216-18 Jl '24

Control

Electrically-operated gages devised for filters. H. N. Jenks. il diags Eng N 95:346-8 Ag 27 '25
Results of accurate control of an old filter plant. E. G. McConnell. Am Water Works Assn J 11:849-55 Jl '24; Same. Can Eng 48: 307-8 Mr 10 '25; Same abr. Eng & Contr (W W) 61:797-9 Ap 9 '24

Cost

Cost of filter plant operation at Springfield, Mass. Eng & Contr (W W) 61:1285 Je 11 '24
Filtration in Philadelphia. Pub Works 55:252 Ag '24

Failures

Reconstruction of filters at Louisville. W. H. Lovejoy. Am Water Works Assn J 14:352-6 O '25

Specifications

Outline of tentative specifications for pressure water filter. Am Arch 125:sup12+ Mr 26 '24

FILTERS and filtration (metallurgy)
Continuous vacuum filters in cyaniding. B. D. Kelly. flow sheet Eng & Min J 118:569-73 O 11 '24; Discussion. 118:702-3, 1021-2; 119:255 N 1, D 27 '24, F 7 '25

FILTERS and filtration (technical chemistry)
Adsorption effects of filtering materials on sugar solutions. G. H. Hardin and F. W. Zerban. Ind & Eng Chem 16:1175-7 N '24
Automatic char-filtration apparatus. W. D. Horne and E. W. Rice. il Ind & Eng Chem 15:1270 D '23
Continuous pressure filter. diags Chem & Met Eng 32:456 Ap '25
Cost of filtration equipment and operation. W. G. Whitman and T. Fuwa. Chem & Met Eng 30:355-9 Mr 3 '24
Cutting costs with the rotary filter. W. D. Mount. il Chem & Met Eng 29:963-4 N 26 '23
Device for water analysis and slow filtration. A. C. Simmons. diag Ind & Eng Chem 15: 901 S '23; Discussion. 15:1284 D '23
Edge filtration. il diags Chem & Met Eng 29: 932-3 N 19 '23
Filter plate of great strength. Chem & Met Eng 31:509 S 29 '24
Filtration and clarification of cider, vinegar, wines, beer and fruit juices. E. C. Alford. Can Chem & Met 8:40 F '24
Filtration in the beet sugar industry. J. Maudru. il diags Am Inst Chem Eng Trans v 16 pt 1:1-15 '24; Same. Chem & Met Eng 31:111-15 Jl 21 '24; Discussion. Am Inst Chem Eng Trans v 16 pt 1:16-17 '24
Fritted glass filter disks. P. H. Prausnitz. diags Ind & Eng Chem 16:370 Ap '24
Improvement in thickening and water clarification. N. Cunningham. Chem & Met Eng 32:750-2 S '25
Improvements in the stream-line filter for bulky precipitates. il diag Chem Age (Lond) 11:215 Ag 30 '24

FILTERS and filtration (technical chemistry) —*Continued*
Industrial filtration. S. G. Ure. il Soc Chem Ind J (Chem & Ind) 43:136-41, 678-86, 975-83 F 8, Jl 4, O 3 '24
Laughlin centrifugal filter 24-inch double bowl machine. il Chemicals 24:17 O 26 '25
Physical examination of sugar juices. K. R. Lindfors. Ind & Eng Chem 17:1155-6 N '25
Process for the treatment of solvents used in dry cleaning. J. W. Hinchley. il diags Soc Chem Ind J 44:117-23 Mr 13 '25
Rapid analysis of sugars; purification and concentration of enzyme solutions. F. W. Reynolds. diags Ind & Eng Chem 16:169-72 F '24
Relative solubilities of quartz, lead smelter slag, chrome ore, and silicate filter grits in hot alkaline waters. R. E. Hall, H. A. Jackson, and G. Fitch. il Ind & Eng Chem 16:701-3 Jl '24
Self-cleaning continuous filter. diags Chem & Met Eng 29:1193-4 D 31 '23
Shimer filter tube. E. C. Bingham. diag Ind & Eng Chem 17:293-4 Mr '25
Stream line filter demonstrations. Chem Age (Lond) 12:52-3 Ja 17 '25
Stream line filters. G: W. Fuller. Eng & Contr (W W) 60:1011-12 N 14 '23; Same. Munic Eng 65:203-5 N '23; Same. Chem & Met Eng 29:1006-7 D 3 '23; Same cond. Eng N 91:770 N 8 '23; Same cond. Can Eng 45: 545 D 4 '23; Same cond. Pub Works 54:393 D '23
Stream-line filters. H. S. Hele-Shaw. il diags Marine Eng 28:746+ D '23
Studies in filtration. B. W. Clarke, S. G. M. Ure and J. W. Hinchley. Chem Age (Lond) 12:106-7 Ja 31 '25; Discussion. 12: 132-3 F 7 '25
What is the most suitable filter? D. R. Sperry. diags Chem & Met Eng 31:422-6; Discussion. 426-8 S 15 '24
See also Colloid mill; Filter presses; Oil filters

FILTRATOR
Filtrator provides new method of treating boiler water. il diag Marine Eng 30:640 N '25

FINANCE
And now financial experts for export. F: Simpich. il Nation's Business 12:28-30 S '24
Capital for the clay industry. J. K. Moore. Brick & Clay Rec 63:556-8, 853-6 O 16, D 11 '23
Competency and economy in public expenditures. Ann Am Acad 113:1-361 My '24
Drafting the brains behind the dollar; Americans serving in rôle of financial advisors to foreign countries. R. A. Lewis, jr. Am Bankers Assn J 16:699-703 My '24
Finance. A. R. Palmer. 2v G. Bell & sons, London '22
Financial foundation of industrial prosperity. B. M. Anderson, jr. Econ W n s 28: 724-5 N 22 '24
Financial organization and management. C: W. Gerstenberg. 723p Prentice-Hall '24
Financial organization of society. H. G. Moulton. 2d ed., rev. 780p Univ. of Chicago press '25
Financing a business. J. M. Regan. 362p La Salle extension univ., Chicago '23
Five practical forms of financing. System 48: 548-9+ N '25
Handling the finances of a business. F: K. Rupprecht. il System 44:723-7+ D '23
Last year's financing. Index p 8 F '25
Mathematical principles of finance. F: C. Kent. 260p McGraw-Hill '24
Mathematical theory of finance. T: M. Putnam. 2d ed., rev. and enl. 135p Wiley '25
Pricing policy in relation to financial control. D. Brown. Management & Adm 7:195-8, 283-6, 417-22 F-Ap '24
Principles of public finance. H. Dalton. 208p Knopf '23
Problems of public finance. J. P. Jenson. 606p Crowell '24
Public finance. H. L. Lutz. 681p Appleton '24
Recent tendencies in credit relations between commercial paper houses and business concerns. S. P. Meech. Univ J of Business 2: 52-71 D '23
Science of public finance. G: F. Shirras. 677p Macmillan '24
Securing funds for business expansion. A. M. Leinbach. Management & Adm 8:33-8 Jl '24
Selected readings in public finance. C: J. Bullock. 3d ed. 982p Ginn '24
Seven guides to sound financing. G: D. Gaw. il System 45:796-9+ Je '24
Studies in current problems in finance and government and "The wealth and income of the chief powers" (1914). J. C: Stamp. 342p P. S. King & son, ltd., London '24
Taking the guesswork out of business. W: R. Basset. Forbes 14:382-3 Je 21 '24
What over-borrowing does to industry. C. E. Woods. Burroughs Clearing House 9:5-7 F '25
What 30 years of banking taught me about financing. A. C. Ratshesky. System 46:571-5+ N '24
See also Auditing; Automobile industry and trade—Finance; Bankruptcy; Banks and banking; Bonds; Budget; Building loans; Capital; Coal mines and mining—Finance; Commerce; Corporations—Finance; Cotton trade—Finance; Credit; Debts, Public; Electric railroads—Finance; Electric utilities—Finance; Finance companies; Financial statements; Foreign exchange; Gas companies—Finance; Hydroelectric plants—Finance; Income; Income tax; Inflation (finance); Insurance; Insurance, Fire—Finance; Insurance, Life—Finance; Insurance, Social—Finance; Interest; Investment trust companies; Investments; Library finance; Loans; Money; Municipal finance; Oil companies—Finance; Panics; Prices; Public utilities—Finance; Radio broadcasting—Finance; Railroads—Finance; Roads—Finance; Securities; State finance; Steel industry and trade—Finance; Stock exchange; Stocks; Street railroads—Finance; Streets—Finance; Tariff; Taxation; Trusts, Industrial; Waterworks—Finance

Dictionnaires
Dictionnaire français-anglais, anglais-français. J. O. Kettridge. 248p Dutton '24

Argentina
Argentina; new currency measures, income tax, public finance, trade balance, banking. Economist 99:315-16 Ag 23 '24; Same. Econ W n s 28:377-8 S 13 '24
Gold reserve of Argentina. Comm & Fin Chr 121:529 Ag 1 '25
See also Taxation—Argentina

Australia
Australian public finance. Economist 98:201 F 2 '24
Governmental revenues in Australia in 1924-1925. Econ W n s 30:379 S 12 '25
See also Money—Australia

Austria
Austria and League control. Economist 101: 444-5 S 19 '25
Austria, saved by the League of nations, wants her independence. E. Lengyel. Annalist 24:101 Jl 28 '24
Credit of Austria. Economist 101:526-7 O 3 '25
Situation in Austria. Nat City Bank p 19-20 N '24

Belgium
Financial situation of Belgium. S. H. Cross. Econ W n s 28:125-7 Jl 26 '24
Steadily improving position of Belgium's public finances. Econ W n s 30:306 Ag 29 '25
See also Budget—Belgium; Money—Belgium

Bolivia
Bolivian fiscal system; revenue, expenditure, and taxation. C: A. McQueen. U S Bur For & Dom Com Trade Information Bul 201:1-23 '24
Bolivian public debt; with a survey of Bolivian financial history. C: A. McQueen. U S Bur For & Dom Com Trade Information Bul 194: 1-27 '24

FINANCE—Bolivia—*Continued*
Bolivian public finance. C: A. McQueen. U S Bur For & Dom Com Trade Promotion Ser 6:1-126 '25
Currency, exchange, and banking in Bolivia. C: A. McQueen. U S Bur For & Dom Com Trade Information Bul 207:1-22 '24

Brazil

Brazil seeks to put her house in financial order. G. B. Sherwell. Am Bankers Assn J 16:646-7+ Ap '24
Budget situation in Brazil. Comm & Fin Chr 120:1546 Mr 28 '25
Republic of the United States of Brazil; financial section of the presidential message. Economist 98:1310-16 Je 28 '24

See also Bonds, Government—Brazil

California

See San Francisco stock and bond exchange

Canada

Canada completes year's financial program at home—follows policy adopted last year. Comm & Fin Chr 121:1300 S 12 '25
Canada continues embargo on gold exports until July 1926; rise in Canadian exchange may bring in gold from United States. Comm & Fin Chr 121:786 Ag 15 '25
Canada in 1923 and 1924. W: L: Edmonds. Annalist 23:11+ Ja 7 '24
Canadian government finances. Comm & Fin Chr 121:405 Jl 25 '25
Problems of Canada; public finance. Economist 100:50-2 Ja 10 '25; Same. Econ W n s 29:198-9 F 7 '25

See also Debts, Public—Canada

Central America

Central American currency and finance. J: P. Young. 258p [bibliog. p. 249-54] Princeton univ. press, Princeton '25

Chile

Chilean public finance. C: A. McQueen. U S Bur For & Dom Com 224:1-121 '24

See also Bonds, Government—Chile; Money—Chile

China

Chinese credit and certain Chinese bonds. G. R. Paul. Annalist 25:678-9 My 18 '25

See also China—Consortium; Tariff—China

Colombia

Stopping a Colombian panic. il World's Markets 14:5-8+ F '24; Same. Dun's Int R 43:55-8+ Mr '24

Czechoslovakia

Czechoslovakia's proposed changes in control of currency system. Comm & Fin Chr 121:1302 S 12 '25

Denmark

Danes alarmed by crown's decline. Comm & Fin Chr 118:1335 Mr 22 '24
Denmark adopts exchange stabilization measure—law effective immediately. Comm & Fin Chr 120:528-9 Ja 31 '25
Denmark may force krone to parity. Comm & Fin Chr 121:526 Ag 1 '25
Denmark's credit. Moody's Inv Serv 16:141-4 Ap 3 '24

Dutch East Indies

Dutch East Indies loan coming. Moody's Inv Serv 16:179 My 1 '24

East

Eastern exchange currency and finance. W: F. Spalding. 4th ed. 468p Pitman '24

Egypt

See Debts, Public—Egypt

Europe

American capital's place in Europe. L. G. Robinson. Annalist 24:50+ Jl 14 '24
Economic and financial progress in Europe, 1923-24. J. S. Davis. R Econ Statis 6:222-42 Jl '24
Economic and financial progress in Europe, 1924-25. J. S. Davis. R Econ Statis 7:72-85 Ap '25
Europe's capitals face the new year anxiously. Annalist 23:9+ Ja '24
Financial situation. Published in weekly numbers of Commercial and financial chronicle
Recent improvement in European government finance. Comm M 6:3-13 D '24; Same. Econ W n s 28:906-10 D 27 '24
Report of Senate (Oddie) commission of gold and silver inquiry on European currency and finance. Comm & Fin Chr 121:408 Jl 25 '25
Western capital seeks control of mid-Europe. E. Lengyel. Annalist 24:9+ Jl 7 '24

Finland

See Debts, Public—Finland

France

Battle of the franc and the American loan. E. E. Agger. Am Bankers Assn J 16:637+ Ap '24
Convention between French government and Bank of France for repayment of debt. Comm & Fin Chr 120:30-1 Ja 3 '25
Decline in French francs—Premier Herriot's appeal for support. Comm & Fin Chr 120: 888-90 F 21 '25
Economic situation behind the franc. R. B. Menapace. Annalist 23:390-1 Mr 31 '24
Fall of the franc. Index p 4-5 F '24
Financial situation in France—taxation and rebuilding of devastated regions. E. Daeschner. Comm & Fin Chr 120:2219-20 My 2 '25; Same. Bankers M 111:593-8 O '25
Financial troubles of the French government. E. L. James. il Am Bankers Assn J 17: 677-9 My '25
The franc at bay. J: F. Fennelly. Comm & Fin 14:2198 N 11 '25
France turns to tax reform. A. Comstock. Annalist 23:476+ Ap 21 '24
France wins battle of the franc. Bankers M 108:581-4 Ap '24
France's international balance of payments in 1923. Moody's Inv Serv 16:159 Ap 17 '24
French answer to Senator Borah's charges. H: Berenger. Annalist 26:571 N 6 '25
French exchange. Moody's Inv Serv 17:187 Je 4 '25
French finance, governmental and private. D: S. Green. U S Bur For & Dom Com Trade Information Bul 290:1-29 '24
French financial supplement. Economist 100: supl-8 Ja 31 '25
French franc worth 5½ cents for devaluation. G. R. Paul. Annalist 25:615-16 My 4 '25
French ministry. Nat City Bank p 74-5 My '25
French opinion and American aloofness. M. de Valette. Bankers M 108:245-7+ F '24
French public finance. Index p 3-5 Jl '25
J. P. Morgan & co.'s credit in favor of Bank of France to curb fall of franc. Comm & Fin Chr 118:1212-14 Mr 15 '24
Large increase of French government revenues in 1923. Econ W n s 27:307 Mr 1 '24
Miscellaneous discussions, suggestions and recommendations; French exchange. Moody's Inv Serv 16:39 Ja 24 '24
Movement of French stock prices. Moody's Inv Serv 16:251 Je 19 '24
New French cabinet in succession to defeated Herriot government—bill increasing limit of circulation of Bank of France passed. Comm & Fin Chr 120:1957-61 Ap 18 '25
Politics and the finances of France; editorial. Comm & Fin Chr 120:1939-40 Ap 18 '25
Position of the public finances of France at the end of 1923. Econ W n s 27:19 Ja 5 '24
Public revenues of France in 1924. Econ W n s 29:270-1 F 21 '25
Purchasing power of the franc. R. Bean. Annalist 22:669+ N 19 '23

FINANCE—France—*Continued*

Revelations incident to issuance of note circulation by Bank of France in excess of legal limit. Comm & Fin Chr 120:1957 Ap 18 '25

Stabilization of the public finances of France. Econ W n s 27:522-3 Ap 12 '24; Same. Nat City Bank p 57-9 Ap '24

Successful flotation of French government bonds in United States. Comm & Fin Chr 119:2478-9 N 29 '24

Terms of the French government's gold basis consolidation loan. Econ W n s 30:90 Jl 18 '25

See also Bonds, Government—France; Budget—France; Debts, Public—France

Germany

Die aufwertungsfrage. R. v. Ungern-Sternberg. Elektrotech Zeit 46:614-16 Ap 23 '25

Buying in Germany on blind faith. R. C. Long. il Am Bankers Assn J 17:309-10+ N '24

Cash or crash in Germany. R. C. Long. il Am Bankers Assn J 18:73-4+ Ag '25

Committee of experts begins inquiry to determine Germany's financial position—Gen. Dawes on necessity of stabilizing German currency. Comm & Fin Chr 118:267-9 Ja 19 '24

Confiscation by German paper money. J. L. Laughlin. Annalist 22:761-2 D 10 '23

Credit crisis in Germany and its remedy. Econ W n s 28:47 Jl 12 '24

Europe's return to sanity; Dawes and McKenna reports. Moody's Inv Serv 16:209-15 My 22 '24

Fall and rise of German bonds. Moody's Inv Serv 16:337-40 S 4 '24

Favorable outcome of Germany's fiscal year 1924-1925. Econ W n s 29:737-8 My 23 '25

Financing of enterprises in Germany under conditions of depreciated currency. F. Leitner. Harvard Business R 2:174-7 Ja '24

German 1925 budget deficit of 678,000,000 gold marks. Comm & Fin Chr 120:2641 My 23 '25

Die goldbilanz. M. Wellenstein. Stahl & Eisen 44:1245-9 O 9 '24

Key to the Berlin Bourse gold quotation list. R. C. Long. Am Bankers Assn J 17:367-8+ D '24

Question of revaluing public and private paper mark debts in Germany. Econ W n s 29:377-8 Mr 14 '25

Report of experts to Reparation commission. Fed Res Bul 10:325-31, 351-417 My '24

Six months of the German budget on a gold basis. Comm & Fin Chr 119:2823-4 D 20 '24; Same. Econ W n s 28:883 D 20 '24

Sound qualities in the Luther cabinet. Annalist 25:188+ F 2 '25

What aid does American self-interest dictate for Germany? R. F. Zinkann. Annalist 23:661+ Je 9 '24

Why monetary inflation cannot continue indefinitely; an explanation of the passing of the mark. W. I. King. Annalist 22:629+ N 12 '23

See also Banks and banking—Germany; Bonds, Government—Germany; Budget—Germany; Debts, Public—Germany; German indemnities; Money—Germany; Securities—Germany; Taxation—Germany

Great Britain

Analysis of the accounts. Economist 100: 847-8 My 2 '25

British financial conditions in 1924. C: E. Lyon. U S Bur For & Dom Com Trade Information Bul 336:1-23 '25

British government revenues and expenditures in the first quarter of the current fiscal year. C: E. Lyon. Econ W n s 30:269 Ag 22 '25

British securities and exchange. Moody's Inv Serv 16:385-8 O 16 '24

Expected extension by United States of $500,000,000 gold basis credit to Bank of England. Comm & Fin Chr 120:1276-7 Mr 14 '25

Financial reform. H: Higgs. 90p Macmillan '24

Foreign credit facilities in the United Kingdom. L. R. Robinson. 229p Longmans '23

Foreign loan embargo and the nation's savings. Economist 101:565-6 O 10 '25; Same. Econ W n s 30:701-2 N 14 '25

Gold pound challenges our bankers and traders. H. P. Willis. Annalist 25:611 My 4 '25

Great Britain seeks settlement of war debts due from France and other nations. Comm & Fin Chr 121:30-1 Jl 4 '25

Great Britain's return to the gold standard. R. M. Haig. Eng & Min J 119:756 My 9 '25

London money market in 1923. Fed Res Bul 10:120-1 F '24

New capital issues in Great Britain in the first nine months of 1925. Econ W n s 30: 590 O 24 '25

The revenue. Economist 98:15-16 Ja 5 '24

State of Great Britain's public finances in relation to the new budget. Econ W n s 29: 630-1 My 2 '25

System of national finance. E: H. Young. 2d ed. 319p J. Murray, London '24

Unexpectedly favorable outcome of Great Britain's fiscal year 1923-1924. A. R. Marsh. Econ W n s 27:579-80 Ap 26 '24

See also Banks and banking—Great Britain; Budget—Great Britain; Debts, Public—Great Britain; Money—Great Britain

Greece

Financial outlook of Greece. G: Copinas. Econ W n s 30:522-3 O 10 '25

Greece; national bank's meeting—the economic situation. Economist 98:740 Ap 5 '24

Greek government 7% refugee loan of 1924. Comm & Fin Chr 120:279-80 Ja 17 '25

Haiti

Facts about Haiti. H. P. Davis. il World's Markets 14:9-12+ F '24; Same. Dun's Int R 43:51-4 Ag '24

Haiti's finances—change in form of presenting public debt. Comm & Fin Chr 119:1123 S 6 '24

Hungary

Fall in Hungarian crown value; banks advance $1,000,000 to government to check panic. Comm & Fin Chr 118:860 F 23 '24

Features of Hungarian government financing—new bond issue, Central bank, etc. Comm & Fin Chr 119:264-5 Jl 19 '24

Hungarian loan. Index p 10-11 Jl '24

Hungarian loan approved by League of nations—Hungary's attitude. Comm & Fin Chr 118:266-7 Ja 19 '24

Hungarian loan shows results. J. Smith, jr. il Am Bankers Assn J 17:373-5 D '24; Same. Econ W n s 28:881-3 D 20 '24

Hungary's new bank opens for business—Commissioner Smith says event marks the end of inflation in that country. Comm & Fin Chr 118:3149-50 Je 28 '24

International loan to Hungary. Bankers M 109:78-81 Jl '24

League of nations plan for Hungary's financial rehabilitation; proposed loan. Comm & Fin Chr 118:1082-4 Mr 8 '24

League of nations program for the financial and economic rehabilitation of Hungary. J. A. Salter. Econ W n s 27:809-11 Je 7 '24

M. Jeremiah Smith chosen by League of nations as Commissioner to direct financial rehabilitation of Hungary. Comm & Fin Chr 118:1851-2 Ap 19 '24

Reconstruction plan in Hungary. Economist 99:520-1 O 4 '24

Report of Jeremiah Smith on Hungarian receipts—comment by A. O. Corbin of F. J. Lisman & co. Comm & Fin Chr 120:1278 Mr 14 '25

See also Bonds, Government—Hungary

India

Evolution of provincial finance in British India. B. R. Ambedkar. 285p P. S. King & son, ltd., London '25

Financial developments in modern India, 1860-1924. C. N. Vakil. 640p [bibliog. p. 611-18] D. B. Taraporevala sons & co., Bombay; P. S. King & son, ltd., London '25

FINANCE—*Continued*

Indiana

Analysis of the finances of the state of Indiana, 1913-1923. C: Kettleborough and F: H. Guild. 237p Indiana univ., Bloomington, Ind. '24

Ireland

Irish Free State bank ends year with budget deficit. Comm & Fin Chr 121:527 Ag 1 '25; Same cond. Econ W n s 30:162 Ag 1 '25

Subscriptions opened to Irish Free State loan. Comm & Fin Chr 117:2377-8 D 1 '23

Italy

Closing of Italian bourses under decree of government—action approved by Otto H. Kahn—ministers decide to halt restrictions. Comm & Fin Chr 120:2098-9 Ap 25 '25

Economic position of Italy according to survey received by Bankers trust company stronger than at any time since the war; Dr Giuseppe Zuccoli on The monetary question in Italy. Comm & Fin Chr 121:1170-1 S 5 '25

Finance minister De Stefani's statement regarding revolving credit of $50,000,000 extended by J. P. Morgan & co. Comm & Fin Chr 120:3012-13 Je 13 '25

Italian budget. Index p 17-18 Ap '25

Italian public finance. H. C. MacLean. U S Bur For & Dom Com Trade Information Bul 313:1-10 '25

Italy ends fiscal year to June 30, 1925 with surplus of 209 million lire. Comm & Fin Chr 121:276 Jl 18 '25

Italy will pay her debts, says De Stefani. M. Sermolino. Forbes 13:571-2 F 16 '24

Italy's financial and economic condition and the exchange situation. Comm & Fin Chr 120:3136-7 Je 20 '25

Modification of Italian decree requiring 25% cash margin on security purchases. Comm & Fin Chr 120:1278-9 Mr 14 '25

Recovery in Italy. F. Bava. Comm & Fin Chr 118:270 Ja 19 '24

Premier Mussolini denies reports that Italy intends to put lira on gold basis—only small portion of Morgan credit drawn on. Comm & Fin Chr 121:29 Jl 4 '25

Present Italian government and the public finances of Italy. R. Angelone. Econ W n s 29:197 F 7 '25

Reports that Italy might float loan through J. P. Morgan & co., denied by T. W. Lamont. Comm & Fin Chr 120:2641-2 My 23 '25

Some aspects of the Italian exchange situation. R. Angelone. Econ W n s 29:868-9 Je 20 '25

See also Debts, Public—Italy; Securities—Italy

Japan

Curtailment of expenditures by Japanese government—working budget. Comm & Fin Chr 119:1346 S 20 '24

Financial program adopted by the Japanese Diet for the work of reconstruction. Econ W n s 27:198-9 F 9 '24

Foreign borrowings of Japan from 1912 to 1924; government and industrial. Econ W n s 29:558-9 Ap 18 '25

Japan to ship gold to protect the yen. Comm & Fin Chr 121:1525 S 26 '25

Japanese revenue and expenditures for fiscal year 1924—trade conditions. Comm & Fin Chr 121:1633 O 3 '25

Japan's budget indicates retrenchment policy. Comm & Fin Chr 120:529 Ja 31 '25

Japan's international loan. E: A. Bradford. Annalist 23:239 F 18 '24

See also Budget—Japan; Japan—Appropriations and expenditures

Mexico

Mexican problem. Economist 99:913-14 D 6 '24

Mexican revolution and the finances of that country. G. B. Sherwell. Am Bankers Assn J 16:417 Ja '24

New financial program put into effect by General Plutarco Elias Calles. J. W. Rowe. Am Ind 25:23 My '25

See also Debts, Public—Mexico

Netherlands

War finances in the Netherlands up to 1918. J. Van Der Flier. 150p Oxford '23

See also Securities—Netherlands

New Zealand

New Zealand exchange problem. Economist 99:765-6 N 15 '24

Public finance in New Zealand. Economist 99:445-6 S 20 '24

See also Money—New Zealand

Norway

Norway's plans for improving the position of her public finances. Econ W n s 27:199 F 9 '24

See also Bonds, Government—Norway

Oklahoma

Some problems in Oklahoma finance. F: F. Blachly and M. E. Oatman. 204p Univ. of Oklahoma, Norman '24

Poland

American credit for Poland. F. Mlynarski. Econ W n s 30:114-16 Jl 25 '25

Financial conditions in Poland. E: H. Young. 64p American Polish chamber of commerce and industry in the United States, inc. New York '24

Financial reconstruction in Poland. Economist 99:184-5, 220-2 Ag 2-9 '24

Financial reconstruction in Poland in 1924. Economist 100:388-9 F 28 '25

Financial situation of Poland. W. Grabski. il Bankers M 111:159-66 Ag '25

First results from the financial reforms instituted by the government of Poland. Econ W n s 27:486-7 Ap 5 '24

Poland's heavy purchase of silver. Manuf Rec 86:68 S 18 '24

Polish financial reform. Economist 98:460-2, 521-2 Mr 1-8 '24

Rehabilitation of Poland. Moody's Inv Serv 17:73-6 F 26 '25

Surplus achieved in 1924 in Poland's governmental finances. Econ W n s 29:343 Mr 7 '25

See also Debts, Public—Poland

Rumania

Public finance. E. D. Durand. U S Bur For & Dom Com 222:47-57 '24

Russia

Finance and industry in soviet Russia. L. J. Lewery. U S Bur For & Dom Com Trade Information Bul 244:1-21 '24

Official statement of the position of the public finances of Soviet Russia. Econ W n s 28:666-7 N 8 '24

Russian public finance. Economist 98:413-14 F 23 '24

Russia's overtures for loan—conferences in London relative to pre-war debts. Comm & Fin Chr 119:267-8 Jl 19 '24

See also Budget—Russia; Debts, Public—Russia; Money—Russia

South Africa

Persistent growth of expenditure. Economist 100:1078 My 30 '25

South America

Banking and finance in South America. R. J. Hose. Econ W n s 27:616-19 My 3 '24

Spain

Spain: the deficit, debt replacement, capital issues, exchange trouble. Economist 98: 832-3 Ap 19 '24

FINANCE—*Continued*

Sweden

Inflation and deflation in Sweden during and since the war. Econ W n s 27:441-3 Mr 29 '24

See also Banks and banking—Sweden; Bonds, Government—Sweden

Switzerland

Financial situation in Switzerland and the inconvertibility of the Swiss bank notes. Comm & Fin Chr 121:1302-3 S 12 '25

Investing in Switzerland. Moody's Inv Serv 16:181-4 My 1 '24

Swiss exchange and money rates, 1915-1923. Fed Res Bul 10:88-92 F '24

United States

Annual report of Secretary of the treasury. A. W: Mellon. Comm & Fin Chr 119:2596-8 D 6 '24

Are banking and credit inflated? H. P. Willis. Annalist 26:371 S 25 '25

Budget and national economy. J: T. Pratt. Am Ind 24:18-19+ D '23

Economy reaches the states. W: P. Helm, jr. Nation's Business 13:45 Jl '25

Effect on United States of debt settlements. S. D. Fess. Comm & Fin Chr 121:1301 S 12 '25

Finances and budget estimates of the national government. J. S. McCoy. Econ W n s 29: 53-5 Ja 10 '25

Financial results of the last fiscal year of the United States government. Econ W n s 30: 55 Jl 11 '25

Financial situation. Published in weekly numbers of Commercial and financial chronicle

Gold movement. Nat City Bank p 180-3 N '25; Same. Econ W n s 30:657-9 N 7 '25

Government finance and taxation. Nat City Bank p 131-2 Ag '25; Same. Econ W n s 30:269-70 Ag 22 '25

Government revenues and government finances. A. W: Mellon. Comm & Fin Chr 117:2725-6 D 22 '23

Has a new epoch in American finance been reached? Federal reserve system to finance Europe's trade. Manuf Rec 85:83-5 My 22 '24

Mr Mellon vs. the bankers. P. S. Krecker. Comm & Fin 13:2191-2 N 12 '24

Part played by United States in financing world's trade—use of acceptances here and abroad. F. A. Goodhue. Comm & Fin Chr 121:937-8 Ag 22 '25

President Coolidge on the fiscal policy of the government. Econ W n s 29:161-2 Ja 31 '25; Same. Comm & Fin Chr 120:535-6 Ja 31 '25

Public finance, 1921-1924. Survey of Cur Business 30:193 F '24

Secretary Mellon, in report of government operations for fiscal year ended June 30, 1924, announces surplus of $505,366,986. Comm & Fin Chr 119:34 Jl 5 '24

Secretary Mellon reports surplus for fiscal year 1925 of $250,505,238. Comm & Fin Chr 121:33-4 Jl 4 '25

Specified revenues of the states, counties and incorporated places over 2,500, 1912 and 1922. Survey of Cur Business 31:18 Mr '24

Stock of money in the country. Comm & Fin Chr 117:2163-4 N 17 '23 [continued monthly]

Treasury balance sheet. Bradstreet's 52:461 Jl 19 '24

Treasury cash and current liabilities. Comm & Fin Chr 117:2082 N 10 '23 [continued monthly]

Treasury finance. Fed Res Bul 10:8-9 Ja '24

Treasury's successful refunding of the short-dated debt. Index p11-14 Ja '24

U.S. treasury. H. E. Sargent. Annalist 24: 94+, 117, 143+, 164, 187, 211, 235, 259, 283, 307-8, 331-2, 544-5 Jl 28-O 6, N 24 '24

U.S. treasury operations. Published in weekly numbers of Annalist

See also Banks and banking—United States; Bonds, Government—United States; Budget—United States; Debts, Public—United States; Income tax—United States; Loans, Foreign; Money—United States; Taxation—United States; United States—Appropriations and expenditures

FINANCE, International

American banking and world rehabilitation. H: M. Robinson. Bankers M 111:205+ Ag '25

Dollar in world markets; significance of the American credits now available to the Schacht bank. Index p 12-14 My '24

International flow of capital. W. F. Gephart. Econ W n s 29:547-9 Ap 18 '25

Reaction of English financial opinion to the American suggestion of a dollar basis for the new German bank of issue. Econ W n s 27:838-9 Je 14 '24

Secretary Hughes, in note to French ambassador, says United States is unable to acquiesce in proposal for international agency to deal with relief credits. Comm & Fin Chr 118:1334-5 Mr 22 '24

See also Balance of trade; Banks and banking; Free trade and protection; Loans, Foreign

FINANCE companies

Automobile financing by commercial credit corporation—new features. Comm & Fin Chr 121:529 Ag 1 '25

Concern felt over growing liberality of time sales terms. N. G. Shidle. Automotive Ind 53:8-10 Jl 2 '25

Financing domestic automobile sales. C. C. Hanch. Management & Adm 9:475-80 My '25

Financing installment paper, mainly with reference to purchase of automobiles. E: H. Clark, jr. Comm & Fin Chr 121:791-2 Ag 15 '25

Financing plan for sheet metal men. Sheet Metal Worker 15:939-40 Ja 2 '25

Financing the automobile. H: G. Hodges. Ann Am Acad 116:49-57 N '24

Freeing credit from competition; automobile financing stabilized. E. Dakin. Comm & Fin 13:2455-6 D 24 '24

Growth of installment buying. D. R. Young. Am Bankers Assn J 17:541-3 Mr '25

How manufacturers are financing retail instalment sales. R. Cole. Ptr Ink 131:3-4+ My 14; 81-2+ My 21 '25

How the new Ford five-dollar-a-week plan is going to work. D. M. McDonald. Automotive Ind 51:437-8 S 4 '24; Excerpts. Ptr Ink 129:10+ N 13 '24

Operations of the Industrial finance corporation in the automobile trade. Comm & Fin Chr 118:2266 My 10 '24

Opportunities for investors. R. V. Sykes. Forbes 15:862-3 Ap 1 '25

Part of the automobile financing company in our credit structure. E. S. Hare. Bankers M 108:43-8 Ja '24

Picking out your bank. H: P. Willis. Management & Adm 7:76 Ja '24

Use of finance companies. J. H. Moore. Oil Paint & Drug Rep 106:56 O 29 '24

See also Automobile industry and trade—Finance; *also* Equable acceptance company of New York; Industrial equipment trust corporation; National association of finance companies

FINANCIAL advertisers' association

Annual convention, 9th, Richmond, Va., Oct. 13-15. Bankers M 109:885-9+ N '24

Financial advertisers need to study their market. Ptr Ink 133:132+ O 22 '25

Meeting, Columbus, Oct. 14-16. Ptr Ink 133: 57 O 1 '25

FINANCIAL libraries

Books of a bank library. M. L. Frey. Am Bankers Assn J 17:400+ D '24

Books a bank library should contain. E. Gilbert. Bankers M 108:885-8 Je '24

Chase bank library. Special Lib 16:16 Ja '25

Financial libraries. R. E. Wright. Special Lib 15:216-17 N '24

Financial library exhibit at the American bankers association convention. A. B. Claflin. Special Lib 15:215-16 N '24

Function of a special bank library. F: H. Curtiss. Special Lib 16:107-9 Ap '25

FINANCIAL libraries—*Continued*
How financial libraries serve banks. M. Reynolds. il Bankers M 109:1075-9 D '24
Librarian diplomats and detectives. G: W. Gray. il Burroughs Clearing House 8:5-7+ Je '24
What we do every day that pleases our officers most. R. G. Nichols and others. Special Lib 16:290-4 O '25
Your bank and the organization of its library. 22p Compiled by the Chicago committee of the financial group of the Special libraries association '24

See also Business libraries; National business and financial library

The Library of the Federal reserve board publishes in typewritten form a list of duplicate books available for distribution

FINANCIAL ratios
Operating and financial ratios characteristic of industries. J. H. Bliss. Management & Adm 7:155-60, 299-304, 405-10, 653-8 F-Ap, Je '24; Excerpt. Paper Tr J 79:57-60+ Ag 28 '24
Use of financial ratios. Harvard Business R 4:79-93 O '25

FINANCIAL reports
Financial reports for industrial executives. 42p Boston Chamber of commerce, Bur. of commercial and industrial affairs, Boston '23

FINANCIAL standards
Financial standards. S. P. Meech. Univ J of Business 3:171-87 Mr '25

FINANCIAL statements
Analysis of financial statements. C. O. Hardy and S. P. Meech. Univ J of Business 3: 378-96 S '25
Analysis of financial statements. A. M. Sakolski. 48p Putnam '23
Borrower's financial statement. C: E. Duffie. Burroughs Clearing House 9:15-18+ D '24
Financial and business statements. L. Greendlinger. 349p Alexander Hamilton inst., New York '23
Financial statement analysis. S. B. Stevenson. Management & Adm 9:223-8 Mr '25
Financial statement drops its funereal dignity; Metropolitan Life includes a selling message. Ptr Ink 131:153-4 Ap 16 '25
How to read a financial statement. H. G. Stockwell. 443p Ronald press '25
Ratios and the statement. Paper Tr J 77:49-52 N 8; 62-3 N 15 '23
Statement analysis and preparation of statements. Bankers M 110:1047+ Je '25
Statement of application of funds. J Account 39:497-511 Je '25
Statement of application of funds. H. A. Finney. J Account 36:460-72 D '23
Story told by the financial and operating statements. J. H. Bliss. Management & Adm 7:25-30, 155-60, 299-30 Ja-Mr '24

See also Balance sheets; Consolidated statements; Financial standards

FINANCIAL statistics
Banking and finance, 1919-1923. Survey of Cur Business 30:20-3 F '24
Financial statistics of principal foreign countries. Published in monthly numbers of Federal reserve bulletin

FINE arts building, World Columbian exposition. See Chicago—Fine arts building, World Columbian exposition

FINE cotton spinners' and doublers' association
General meeting, 28th, Manchester, Eng., May 26. Economist 100:1084-8 My 30 '25

FINGER prints
Everybody should be fingerprinted. R: E. Enright. il Sci Am 133:224-5 O '25

FINIALS
Forty-eight-ounce copper finial. il Sheet Metal Worker 15:529 Ag 1 '24

FINK truss. See Trusses

FINLAND
See also Bonds, Government—Finland; Electricity supply—Finland; Housing—Finland; Hydroelectric plants—Finland; Labor and laboring classes—Finland; Labor laws and legislation—Finland; Tobacco industry and trade—Finland; Water power—Finland

Commerce
Trade openings in Finland and Esthonia. Economist 101:655-6 O 24 '25

Economic conditions
Economic and financial conditions in Finland in 1923. Econ W n s 27:730-1 My 24 '24
Finland. Economist 98:1292-3 Je 28 '24
Finnish affairs. Economist 99:1056-7 D 27 '24
Finnish trade and conditions. Elec R (Lond) 97:75 Jl 10 '25
Finnish trade and finance. Economist 99:869-70 N 29 '24
Foreign securities in American markets. Annalist 22:699-700 N 26 '23
Investing in Finland. Moody's Inv Serv 17: 109-12 Mr 26 '25

See also Wages—Finland

FINLEY, W. H.
Hughitt and Finley of the North Western retire. por Ry Age 78:1641-2 Je 27 '25

FINNISH cooperative trading association of Brooklyn
Progress of Finnish cooperators of Brooklyn. Monthly Labor R 20:1379-80 Je '25

FIR
Pulp yields from spruce and balsam. G. J. Armbruster. Paper Tr J 80:61 Je 11 '25

See also Douglas fir

FIRE
See Combustion; Fires; Flames; Fuel; Heating; Smoke

FIRE alarms
Continuous thermostatic wire for fire alarm systems. diag Elec Ry J 62:867-8 N 17 '23
Establishment of engineering standards for municipal fire fighting facilities. C. Goldsmith. Munic & Co Eng 66:301-4+ Je '24
Fire and watchman's signal system in Torrance shops. Elec Ry J 65:966 Je 20 '25
How to sound a fire alarm. Safety Eng 48: 262-3 D '24
On their way in thirty seconds. V. Fendrich. il Sci Am 133:238-40 O '25
Selbsttätige feuermelder in einer grossmühle. il Elektrotech Zeit 46:1303-4 Ag 27 '25

FIRE apparatus
Fire-fighting equipment in electric plants; report of Pacific coast electrical association. J Elec 54:498-501 Je 1 '25
Fire protection service at the British Empire exhibition. il diags Engineering 118:153-6, 426-8, 530-1 Ag 1, S 19, O 10 '24
Fliver and equipment make good lease fire unit. il Nat Pet N 17:75 My 20 '25
Spring inspection of fire apparatus. Safety Eng 49:215-17 My '25

See also Fire boats; Fire engines; Fire extinguishers; Fire hose

FIRE apparatus, Motor
Combining fire fighting and locomotive efficiency; Indian motorcycle equipped with Foamite fire-fighting apparatus. il Safety Eng 47:214-15 Ap '24
Le XIXe salon de l'automobile; section des véhicules industriels (22-31 octobre 1924). G. Delanghe. il diags Génie Civil 85:489-90 N 29 '24
Hydraulic fire ladder. il diag Engineering 117:575, 578 My 2 '24
Motorwagen-feuerlöschpumpen. Sulzer. il diag Zeit Ver Deutsch Ing 68:1153-4 N 1 '24
Les services de défense contre l'incendie en France et aux Etats-Unis; l'autopompe de grande puissance construite par la Société Somua. G. Delanghe. il diags Génie Civil 84: 489-94 My 24 '24

FIRE boats
Fireboat Deluge, largest of the type ever built in America. diag plans Marine Eng 29:29-30 Ja '24

FIRE boats—*Continued*
High powered fire boat. L. E. Caverly. plans Marine R 55:299-300 Ag '25
Triple screw fire boat building for Los Angeles. plans Marine Eng 30:445-7 Ag '25

FIRE brick
Best results secured by using firebrick of uniform thickness. M. S. Gerend. il Power 59:831 My 20 '24
Carbon formation in firebrick. B. M. O'Harra. il Eng & Min J 117:813-14 My 17 '24
Catechism of central station gas engineering in the United States. Am Gas J 121:780, 799 Ag 23-30 '24
Cause of the rapid failure of fire brick in the checkerwork baffles of oil fired boilers. Am Cer Soc J (Bul) 7:307-11 Ag '24
Conductivity and specific heat of refractories at high temperatures. M. D. Hersey and E: W. Butzler. U S Bur Mines Rep of Invest 2564:1-7 Ja '24 (typew)
Economical operation and maintenance of boiler furnaces. R. June. Blast F & Steel Pl 12:251-3+, 300-2 My-Je '24; Same. Gas Age 53:309-11+, 426-8 Mr 15, Ap 5 '24
Fireclay and silica brick as gas house refractories. A. F. Greaves-Walker. Gas Age 53:567-70 Ap 26 '24
Fire-clay brick for the open hearth. M. C. Booze. Am Cer Soc J 7:686-90 S '24
Furnace linings and arches. J. W. Fowler. Power 60:543 S 30 '24
General theory of spalling. F. H. Norton. il Am Cer Soc J 8:29-39 Ja '25
Getting double duty from fire brick; crushed firebrick for burner blocks. H. M. Thompson. il Iron Tr R 76:1380 My 28 '25; Same cond. Iron Age 115:1644 Je 4 '25
Ground firebrick for furnace repair. J. Harrington. il Power 59:976-8 Je 17 '24; Discussion. 61:112; 62:182 Ja 20, Ag 4 '25
Influence of texture on the transmission of heat through firebricks. A. T. Green. bibliog diags Gas J (Lond) 167:sup31-6 Jl 9 '24
Investigating firebrick for use in gas manufacture. C. C. Brown. Gas Age 54:459-62 O 4 '24
Liptak interlocking fire brick wall. il Power Pl Eng 28:413 Ap 1 '24
New cost formulas for firebrick. G: W. Greenwood. diags Management & Adm 9: 261-4 Mr '25
New fire clay brick. il Iron Age 112:1508 D 6 '23; Chem & Met Eng 29:1148-9 D 24 '23
New use for refuse refractory material. S. F. Walton. il Iron Age 113:786-8 Mr 13 '24
Principal refractory problems of the malleable cast iron foundry. H. A. Schwartz. Am Cer Soc J 8:708-11 N '25; Same abr. Foundry 53:203-4 Mr 1 '25
Production of refractory brick in 1923. Iron Age 115:245 Ja 15 '25
Qualities of fire brick from a metallurgical standpoint. W. Grum-Grjimallo. Blast F & Steel Pl 13:352 S '25
Refractories for oil-burning boilers. T: S. Curtis. Mech Eng 47:299 Ap '25
Refractories for oil gas generators. J. T. Creighton and M. J. Cereghino. il Gas Age 54:826-8, 860-2, 894-6+ D 13-27 '24
Refractories question box. E. E. Ayars. Am Cer Soc J (Bul) 7:228-33 Je '24
Refractory requirements in the gray iron foundry. R: Moldenke. Am Cer Soc J 8: 712-17; Discussion. 717-19 N '25
Relation between under-load refractoriness, ordinary refractoriness, and composition, physical and chemical, of refractory materials; firebricks. A. J. Dale. bibliog Gas J (Lond) 171:sup14-23 Jl 22 '25
What fellowship work has done for fire brick. il Brick & Clay Rec 65:685-7 N 11 '24

See also Silica brick

Manufacture

Combustion in kilns burning refractory ware. R. A. Sherman. diags Am Cer Soc J 7:175-88 Mr '24
Firing refractory brick in a round down-draft kiln with a mechanical stoker. E. E. Ayars. Am Cer Soc J 7:889-94 D '24
How a notebook helped to build a real plant; Darlington, Pa. clay products co. il diag Brick & Clay Rec 65:827-31 D 9 '24
Make uniform fire brick by new process. il Iron Tr R 75:1558 D 6 '23
New process sizes fire brick. il diag plan Brick & Clay Rec 64:649 Ap 29 '24; Chem & Met Eng 30:874 Je 2 '24; Iron Tr R 74: 1179-80 My 1 '24; Iron Age 113:1899 Je 26 '24
Producer gas for burning refractories. W. D. Richardson. Am Cer Soc J 6:799-807 Jl '23; Discussion. (Bul) 6:374-6 D '23
Research possibilities in refractories. M. C. Booze. Brick & Clay Rec 66:294+ F 17 '25
Some causes of the variation in the sizes of refractories—bricks and blocks. J. W. Mellor. Gas J (Lond) 167:sup27-8 Jl 9 '24
Tailor-made fire brick. il diag Brick & Clay Rec 64:427-8 Mr 18 '24
They make no second grade ware; interview with T. C. Eayrs. Brick & Clay Rec 67: 191-2 Ag 4 '25
Unusual processes in dry pressing fire brick. il diag Brick & Clay Rec 66:904-7 Je 9 '25

Specifications

Drafting specifications for fire brick and clay. Brick & Clay Rec 67:413 S 15 '25

Testing

Behavior of fire brick in malleable-iron furnace bungs. H. G. Schurecht and H. W. Douda. Am Cer Soc J 6:1232-41 D '23
Comparative tests of porosity and specific gravity on different types of refractory brick. E. E. Pressler. Am Cer Soc J 7:447-51 Je '24
Effect of red hearts in fire clay brick. M. C. Booze. Am Cer Soc J 8:227-30; Discussion. 230-1 Ap '25
Fire brick tests Long Beach steam plant no. 2; report of Pacific coast electrical association. J Elec 54:501-4 Je 1 '25
High temperature load and fusion tests of fire brick from the Pacific Northwest in comparison with other well-known fire brick. H. Wilson. Am Cer Soc J 7:34-51 Ja '24
Investigation of the effects of load, temperature, and time on the deformation of firebrick material at high temperature. A. J. Dale. bibliog Gas J (Lond) 171:sup41-6 Jl 22 '25
Method of selecting refractories for marine purposes of the navy. H. H. Norton and R. L. Porter. il diag Am Cer Soc J 7:575-80; Discussion. 580-2 Jl '24
Selection of fire brick by comparative tests with a detailed description of the method used to measure the temporary expansion or contraction of fire brick at various temperatures. F. A. Kohlmeyer. diag Am Cer Soc J 8:313-18 My '25; Discussion. (Bul) 8:610-15 N '25
Simple brick porosimeter. E. E. Pressler. il Am Cer Soc J 7:154-9 Mr '24
Study of the factors involved in the spalling of fire clay refractories with some notes on the load and reheating tests and the effect of grind on shrinkage. M. C. Booze and S. M. Phelps. il diags Am Cer Soc J 8:361-82 Je '25
Testing of fire-clay brick with special reference to their use in coal-fired boiler settings. R. F. Geller. il diags U S Bur Stand Tech Pa 279:97-139 '25; Abstracts. Engineering 120:133 Jl 31 '25; Mech Eng 47:850 O '25
Testing refractories for marine oil-fired boilers. R. L. Porter. Marine Eng 30:471-3 Ag '25

FIRE clay
Behavior of fire clays, bauxites, etc., on heating. H. S. Houldsworth and J. W. Cobb. Am Cer Soc J 7 (Cer A 3):48 F '24
Chemical and physical properties of fire clays from various producing districts. M C Booze. Am Cer Soc J 8:655-65 O '25

FIRE clay—*Continued*
Fire clay is farm's best crop. il Iron Tr R 75:1297-9 N 13 '24
Fire clays of Maryland. A. S. Watts and others. 270p Johns Hopkins press, Baltimore '22
Hand-book of essential information about fire-clay products. 158p Walsh fire clay products co., 220 5th av., New York '24
Oxidation of ceramic wares during firing; some reactions of a well known fire clay. G: A. Bole and F. G. Jackson. Am Cer Soc J 7:163-74 Mr '24
Power plant chemistry; abstract. W. M. Miles. Elec R (Lond) 95:36 Jl 4 '24
Proper clay for furnace walls. M. S. Gerend. Power 60:761 N 11 '24
Refractory clays and shales of Indiana. W. N. Logan. Am Cer Soc J 7:201-6 Mr '24
Refractory materials in carbonizing practice. A. H. Middleton. Gas J (Lond) 172: 163 O 21 '25
Secondary expansion of flint clay. F. A. Harvey. Am Cer Soc J 7:455-6 Je '24
Theory of coal measure fire clays. E. Lovejoy. Am Cer Soc J 8:756-61 N '25

See also Fire brick

Manufacture

What automatic means when applied to clay handling. il Brick & Clay Rec 65:756-9 N 25 '24

Specifications

Drafting specifications for fire brick and clay. Brick & Clay Rec 67:413 S 15 '25

Testing

Testing refractories for marine oil-fired boilers. R. L. Porter. Marine Eng 30:471-3 Ag '25

FIRE curtains
Safety of theatre proscenium curtains. N. D. Mitchell. il Safety Eng 49:63-8 F '25

Testing

Fire test of a theatre curtain. Eng & Contr (Bldgs) 61:1168 My 28 '24; Same. Am Inst Arch J 13:42 Ja '25
Test of theater curtains by Bureau of standards indicates safety requirements. Eng N 95:51 Jl 9 '25

FIRE damp. See Firedamp

FIRE departments
Establishment of engineering standards for municipal fire fighting facilities. C. Goldsmith. Munic & Co Eng 66:301-4+ Je '24
Radio in the Vienna fire department. O. C. Zilisch. il Radio N 6:1390+ F '25
Salaries in the police and fire departments of specified cities. Monthly Labor R 19:802-16 O '24

See also Firemen

FIRE doors
Rolling steel door in industry. M. L. Cornell. il Ind Management 70:12-15 Jl '25; Same. Eng & Contr (Bldgs) 64:479-82 Ag 26 '25
Sell more fire doors. il Sheet Metal Worker 16:301-3 Je 5 '25
Unique fire doors in metal products plant. il Iron Tr R 76:1254 My 14 '25

FIRE drills
Exit drill code for industrial establishments. Safety Eng 50:35-9 Jl '25

FIRE engine houses. See Fire houses

FIRE engines
Fire protection service at the British Empire exhibition. il diags Engineering 118:383-6 S 12 '24
Gwynne light motor fire engine. il Engineer 139:554 My 15 '25; Engineering 120:226-7 Ag 21 '25
Motor foam fire-fighting engine. il Engineer 139:467 Ap 24 '25

Manufacture

Methods in a fire-engine shop. F. H. Colvin. il diags Am Mach 62:43-5 Ja 8 '25

FIRE extinction
Applying liquid carbon dioxide to extinguish oil fires. W. H. Freygang. il Stevens Ind 41:65-7+ My '24
Drowning a mine fire in carbon dioxide. C: H. Strange. il diag plan Coal Age 28:453-8 O 1 '25
Extinguishing ignited gas mains. Sci Am 130: 81 F '24
Fire-fighting equipment for chemical works. H. Seymour. Chem Age (Lond) 11:320-1 S 27 '24
Fire, largely isolated by a fault, is successfully sealed by men in oxygen breathing apparatus. il map Coal Age 25:379-82 Mr 13 '24
Foamite and oil fires. il Chem Age (Lond) 12:295 Mr 28 '25
Pleasant day's work for those who like to play with nitro; extinguishing a gas well fire. A. F. Hinton. diag Nat Pet N 17:39-40 N 4 '25
Simplified fire department hydraulics. F: Shepperd. 168p Fire engineer, New York '25
Testing of foam for use on fires. C. K. Swift. diag Ind & Eng Chem 16:580-2 Je '24
United States government master specification for fire-extinguishing liquid (carbon tetrachloride base). 2d ed. U S Bur Stand Circ 134:1-6 '24
What every fire-fighter should know. 332p Fire and water engineering, inc., New York '23

See also Fire apparatus; Fire boats; Fire engines; Fire extinguishers; Fire service (water supply); Sprinkling systems

FIRE extinguishers
Chemical fire extinguishers; abstract. H. R. Tolley and A. P. Yerkes. Am Inst Arch J 12:101 F '24
Factory fire protection. H. E. Barr. il Am Mach 62:627-8 Ap 16 '25
Fighting oil fires. il Chem Age (Lond) 12: 201 F 28 '25
Fire extinguisher using dry CO_2 gas. C. L. Jones. diag Elec W 83:1138 My 31 '24
First aid fire appliances. C: R. D'Olive. Nat Safety N 9:33-5 Ja '24
First aid when the blaze starts. E. J. Smith. Nat Safety N 11:31-2 F '25
Precautions against freezing of fire extinguishing appliances. il Safety Eng 46:243-5, 297 N-D '23
Selecting the proper extinguishing agent for various classes of fires. Ind Eng 82:244-5 My '24

See also Carbon tetrachloride

FIRE hose
Large and small fire hose, water pressures, and hydrant spacings. W: R. Conard. N E Water Works Assn J 39:79-84 Mr '25; Excerpt. Eng & Contr (W W) 62:802-3 O 8 '24
Manufacture of cotton rubber lined fire hose. il diag India Rubber W 72:405-6 Ap '25
Small hose streams for fighting mine fires. L. D. Tracy and R. W. Hendricks. diags U S Bur Mines Tech Pa 330:1-23, pl 1-5 '25

Specifications

Standard specifications for cotton rubber-lined fire hose for private fire department use. Am Soc T M Standards 1923:105-10
Standard specifications for cotton rubber-lined fire hose for public fire department use. Am Soc T M Standards 1923:111-16

Standards

Fire-hose thread standards. Iron Age 114: 996-7 O 16 '24
Hose thread standardization. E. J. Coyle. Safety Eng 50:237-8 O '25
Pulling the fire demon's teeth; approval of American national screw threads for fire hose couplings. Aera 12:2072-4 Jl '24; Pub Works 55:220-1 Jl '24
Size of fire hose. W. R. Conard. Pub Works 56:56 F '25

FIRE hose—Standards—*Continued*
Standardization of fire hose threads. J. H. Howland. N E Water Works Assn J 38:73-6 Mr '24; Excerpt. Can Eng 46:372-3 Mr 25 '24; Discussion. N E Water Works Assn J 38:76-8 Mr '24
Standardization of fire hose threads. J. H. Howland. Safety Eng 47:173-4 Ap '24
Standardization of screw threads for fire hose. Monthly Labor R 19:443-4 Ag '24; Management & Adm 8:176 Ag '24; Safety Eng 48: 124 S '24
Tools for standardizing fire hose fittings. il Iron Age 114:433 Ag 21 '24

FIRE houses
Ambler fire house and town hall, Ambler, Pa. il plans Am Arch 128:191-2 Ag 26 '25
Fire house of beauty and utility; Shreveport, La. il plans Bldg Age 47:129 O '25
Fire protection in small cities. il plans map Am Arch 126:89-94 Jl 30 '24
Some bungalow fire stations. S. Ferguson. il plans Eng & Contr (Bldgs) 61:696-9 Mr 26 '24

FIRE insurance. See Insurance, Fire

FIRE prevention week
President Coolidge's proclamation on the observance of national fire prevention week. Econ W n s 30:453 S 26 '25

FIRE protection
Assets or ashes after the fire? R. C. Willoughby. il Nation's Business 13:45-6 My '25
Casting out the devils of fire. Nation's Business 11:21-2 D '23
Chamber of commerce fire waste competition. G: W. Booth. il Safety Eng 46:277-8 D '23
Chamber's contests cut fire losses. Nation's Business 12:66 Je '24
Co-operation of local boards of trade and fire departments in fire prevention work. W. R. Hough. Econ W n s 30:492-3 O 3 '25
Covering what fire insurance can't cover. R. S. Moulton. il System 44:741-3+ D '23
Crosby-Fiske-Forster hand-book of fire protection. E. U. Crosby, H: A. Fiske and H. W. Forster. 7th ed. 900p Van Nostrand '24
Decreasing the fire hazard in the United States. F. H. Wentworth. Econ W n s 30: 59-60 Jl 11 '25
Efficient fire protection and prevention. F. C. Jordan. Munic Eng 65:213-16 N '23
Eliminating fire hazards in office buildings. R. P. Miller. Arch Forum 41:117-18 S '24
Factory fire protection. H. E. Barr. il Am Mach 62:627-8 Ap 16 '25
Fire hazards of static electricity. R. M. Clark. Ind & Eng Chem 17:1127-9 N '25; Excerpts. Pet Age 16:57-8 N 15 '25
Fire hazards of summer amusement parks. A. C. Carruthers. il Safety Eng 48:58-60 Ag '24
Fire prevention activities of chambers of commerce. Safety Eng 49:32-4 Ja '25
Fire prevention and protection. P. Bugbee. Textile World 65:85+ Ja 5 '24
Fire prevention and protection for industrial buildings. C. S. Taylor. Arch Forum 39: 105-8 S '23; Same. Eng & Contr (Bldgs) 62:677-82 S 24 '24
Fire prevention and the architect. G. E. Stecher. Safety Eng 49:9-11 Ja '25
Fire prevention as a credit asset. W: W. Orr. Econ W n s 27:673-4 My 10 '24; Same. Safety Eng 47:226-7 My '24
Fire prevention as a national economic problem. G: F. Lewis. Econ W n s 30:453-6 S 26 '25
Fire prevention in the factory. J. E. Florin. Safety Eng 49:107-9 Mr '25
Fire prevention in wood working plants. J: Plant. il Nat Safety N 9:35-6 My '24
Fire prevention pays—the proof. W. K. Greenebaum. Safety Eng 50:164-8 S '25
Fire protection cycle. R. S. Moulton. Safety Eng 49:205-7 My '25
Fire protection in foundries and steel plants. J. M. Woltz. Safety Eng 46:194-7 O '23; Same. Foundry 52:68-70 Ja 15 '24; Same cond. Iron Age 112:1255-6 N 8 '23; Same cond. Iron Tr R 73:1477-9 N 29 '23
Fire protection in small cities. il plans map Am Arch 126:89-94 Jl 30 '24
Fire protection in winter. Textile World 66: 3301+ D 6 '24
Fire protection kinks. Textile World 65:3179 My 10 '24
Fire resistive protection applied to filing cabinets. A. C. Carruthers. il Safety Eng 47:77-80 F '24
Fire safety as a factor in business credit. W: W. Orr. Econ W n s 27:277-9 F 23 '24
Fire waste problem is every man's job. T. A. Fleming. Safety Eng 47:1-4 Ja '24
Fires in dry cleaning plants. Safety Eng 49: 37 Ja '25
First aid when the blaze starts. E. J. Smith. Nat Safety N 11:31-2 F '25
Guarding the Equitable building. F. J. Quayle. Safety Eng 48:153-4 O '24
Have you protected your uninsurable assets? report of committee on protection of records. il Safety Eng 46:212-16 N '23
Hospitals and the fire hazard. W: D. Crow. il Safety Eng 50:187-98 O '25
How fire protection is maintained at the Timber Butte mill. W. J. Tait. Eng & Min J 116:811 N 10 '23
How one fire prevention committee works. Spectator 114:33+ F 12 '25
In the land of the fire. E: F. Fane. il Credit M 26:9-11+ O '24
Life agent one of the leaders in fire prevention contest. Spectator 114:3 Ap 16 '25
Local councils lead annual fire prevention crusade. il Nat Safety N 10:31-2 D '24
Merchant's relation to the fire waste problem. G: W. Elliott. Safety Eng 47:223-5 My '24
Methods and experience of wholesale druggists; abstracts. C. H. Waterbury. Spectator 114:15+ Ap 2 '25; Credit M 27:18+ O '25
Modern maintenance of plant and equipment. W: G. Ziegler. il Ind Management 68:6-13 Jl '24
National fire waste council in fire prevention work. Safety Eng 49:193-4 My '25
New opportunities to prevent factory fires. D. Pierce. il Factory 34:43-4 Ja '25
New pyroxylin finishing materials. H. B. Fox. il Chemicals 23:6-7 My 25 '25
Organization of fire prevention in industrial works. K. P. Babcock. il Ind Eng 83:98 F '25
Policyholders' responsibilities in the matter of fire prevention. S. W. Wade. Spectator 114:4+ My 28 '25
Progress in fire-protection; National fire protection association discusses oil tank dangers, safety to life and pier protection. Eng N 92:946-7 My 29 '24
Promoting fire prevention. R. Scott. Safety Eng 47:142-3 Mr '24
Protecting life and property at the Endicott-Johnson plants. A. C. Carruthers. il Safety Eng 47:191-200 Ap '24
Protection against exposure fires. Am Arch 125:347-8 Ap 9 '24
Protection of documents and valuable records against fire. H. P. Weaver. Safety Eng 47:20-4 Ja '24
Protection of records; report of the committee of the National fire protection association. Safety Eng 47:300-6; 48:14-18, 60-2 Je-Ag '24; Discussion. 48:62-4+ Ag '24
Report of the A.S.C.E. special committee appointed to consider the report made to the National fire protection association on the fire hazard of docks, piers, and wharves. Am Soc C E Pro 50:[Soc aff]272-85 Mr '24
Rules governing fire prevention in industrial plants. G. A. Luers. il Ind Eng 83:247-8 My '25
Safety engineering 1901-1925. C: E. Worthington. Safety Eng 49:155-9 Ap '25
Safety in use of pyroxylin base finishing materials. H. B. Fox. Nat Safety N 11:31-2 My '25
Standard regulations for fire protection and how they are established. R. P. Moulton. Credit M 26:24+ O '24; Same. Econ W n s 28:561-2 O 18 '24

FIRE protection—*Continued*
Tentative regulations for the storage and handling of photographic and X-ray nitrocellulose films. Safety Eng 48:38-40 Jl '24
This might be your plant? il Brick & Clay Rec 66:432-3 Mr 17 '25
Twenty one rules for fire prevention. Safety Eng 48:99 S '24
Use of radio in teaching fire prevention. P: C. Spence. Safety Eng 47:246-7 My '24
Water-curtain fire protection of Union Central building. il diag Eng N 91:972-3 D 13 '23
We take fire prevention seriously. W. C. Holman. il Factory 33:502-5 O '24
Weekly inspection of factory fire fighting equipment report card. J. M. Walsh. diag Ind Eng 82:36-7 Ja '24
What are you doing to prevent fire on your piers? H. W. Ordeman. il Marine R 55:420-1 N '25
Why let your house catch fire? J: Kenlon. il Sci Am 132:230-2 Ap '25

See also Coal mines and mining—Fires and fire protection; Exits; Factory fire brigades; Fire apparatus; Fire boats; Fire curtains; Fire departments; Fire doors; Fire drills; Fire engines; Fire extinction; Fire extinguishers; Fire resisting materials; Fire service (water supply); Fire walls; Fireproof construction; Fireproofing; Fireproofing of textiles; Forest fires; Gas, Natural—Fires and fire protection; Gasoline handling; Hydrants; Mine fires; Oil burning equipment—Fires and fire protection; Oil storage—Fire protection; Oil tanks—Fire protection; Petroleum refineries—Fires and fire protection; Railroads—Fires and fire protection; Ships—Fires and fire protection; Sprinkling systems; Watchmen; *also* National fire waste council; Railway fire protection association; Underwriters' laboratories

FIRE pumps. See Pumps

FIRE resisting materials
Fire resistance in small homes. il Safety Eng 48:101-3 S '24
Fire-resisting wallboard in industrial plants. H. E. Jeddy. il Ind Eng 83:235-7+ My '25
Metal lath as a protection from fire. W. Clay. Eng & Contr (Bldgs) 61:185-7 Ja 23 '24
Mineral wall board in severe fire test. il Eng & Contr (Bldgs) 62:935-6 O 22 '24
Report of fire prevention committee; rating rules on roof coverings. J: Bogenberger. Sheet Metal Worker 15:463+ Jl 4 '24

See also Asbestos; Brattice cloth; Concrete construction—Fire resistance; Fireproof construction; Gypsum concrete; Refractory materials

Testing

High temperatures observed in library fire test. Eng N 94:763 My 7 '25
Studying fire risks from sample fires. J. F. Springer. il Sci Am 130:388+ Je '24

See also Fire curtains—Testing

FIRE service (water supply)
Business side of private fire protection. D. R. Gwinn. Munic & Co Eng 69:12-17 Jl '25
Charges for automatic fire sprinkler system. L. Ellis. Am Water Works Assn J 13:544-6 My '25
Charges for private protection services. Am Water Works Assn J 11:276-81 Ja '24
Control of water waste: report of the committee of the National fire protection association on private fire supplies from public mains. H. A. Burnham. Safety Eng 47: 231-3 My '24
Current practice in charges for private fire protection. H. A. Burnham. N E Water Works Assn J 38:111-14 Je '24; Same. Eng & Contr (W W) 62:591-3 S 10 '24; Discussion. N E Water Works Assn J 38:115-18 Je '24
Direct fire pressure vs. portable pumping apparatus. Am Water Works Assn J 11:209-13 Ja '24
Effect of distribution system design upon fire insurance rates. L: Stocklmeir. Am Water Works Assn J 11:572-81 My '24
Fire protection requirements in distribution system design. V. B. Siems and D. B. Biser. Am Water Works Assn J 11:17-37 Ja '24; Discussion. 12:186-90 O '24
Fire protection service of the water department: should it be paid from water rates or general tax fund? Am Water Works Assn J 11:203-8 Ja '24
Fire protection should be furnished by pumpers. W: Luscombe. Eng & Contr (W W) 61:796 Ap 9 '24
Modern views on service reservoirs and desirable pressures. A. C. Hutson. Munic & Co Eng 68:251-6 My '25; Excerpt. Eng & Contr (W W) 63:1256-8 Je 10 '25
Precautions against freezing of fire apparatus. Safety Eng 48:185-8 N '24
Proper municipal hydrant rentals. W. C. Brockway. Eng & Contr (W W) 62:603-4 S 10 '24
Relation of fire protection requirements to the distribution system of small towns. C. Goldsmith. diags Am Water Works Assn J 12:168-78 O '24
Relation of waterworks to fire insurance rates. H. J. Corcoran. Am Water Works Assn J 11:79-85 Ja '24; Same. Eng & Contr (W W) 61:354-7 F 13 '24
Size of fire services. H. A. Burnham. Am Water Works Assn J 12:336-8 N '24; Same. Eng & Contr (W W) 63:309-10 F 11 '25
Steamer connections (4½-inch) on supplies having high pressure, 75 pounds or over; are they necessary or reasonable? Am Water Works Assn J 11:225-33 Ja '24
Water storage a solution of fire reserve problem. C: W. Parsons. Munic & Co Eng 68: 181-6 Ap '25; Same. Eng & Contr (W W) 63: 768-73 Ap 10 '25; Same. Am Water Works Assn J 13:638-46 Je '25; Excerpt. Eng N 95: 93 Jl 16 '25
Water supply at the New Bern, N. C., conflagration. F. G. Godfroy. Am Water Works Assn J 11:904-7 Jl '24
Water supply for fire protection. V. B. Seims. Can Eng 49:133-6 Jl 14 '25; Same. Munic & Co Eng 69:144-9 S '25; Excerpt. Eng N 94:771-2 My 7 '25
Water works and the fire protection of small municipalities. C: W. Parsons. Am Water Works Assn J 11:781-7 Jl '24; Same. Munic & Co Eng 66:183-6 Ap '24; Same abr. Eng & Contr (W W) 61:781-4 Ap 9 '24; Discussion. Am Water Works Assn J 11:788 Jl '24
Why fire chief and water works superintendent must work together. S. Brockwell. Am Water Works Assn J 11:865-7 Jl '24

See also Fire hose; Hydrants; Sprinkling systems

Standards

Establishment of engineering standards for municipal fire fighting facilities. C. Goldsmith. Munic & Co Eng 66:301-4+ Je '24

Testing

Methods of making flow tests and their value to water works engineers. G: W. Booth. il Am Water Works Assn J 12:157-67 O '24; Same. Eng & Contr (W W) 62:1079-85 N 12 '24

FIRE stations. See Fire houses

FIRE underwriters association of the Northwest
Fire underwriters association of the Northwest. E. L. Quackenbush. Spectator 113:55-6 sec 2 Jl 17 '24

FIRE walls
Fire-banks for oil storage. H. H. Hall. il diags Am Soc C E Pro 51:721-47 My '25; Abstract. Eng & Contr (G C) 63:1102-4 My 20 '25

See also Fire doors

FIRE waste council, National. See National fire waste council

FIREARMS

See also Guns; Machine guns; Ordnance; Pistols; Projectiles; Rifles

FIREARMS—*Continued*

Accidents

Gun catastrophes. E: C. Crossman. il Sci Am 130:154-5 Mr '24

FIREBOATS. See Fire boats

FIREDAMP

Ignition of firedamp by exposed filaments of electric mine-lamp bulbs. R. D. Leitch, A. B. Hooker and W. P. Yant. U S Bur Mines Rep of Invest 2674:1-3 Mr '25 (typew)

L'inflammation du grisou par les lampes et les explosifs. Génie Civil 86:241-2 Mr 7 '25

Schlagwetteranzeiger. il Elektrotech Zeit 46: 1150-4 Jl 30 '25

Testing for firedamp. Elec R (Lond) 94:233 F 8 '24

FIREFLIES

Popular delusion concerning the firefly. Elec W 84:154 Jl 26 '24

FIRELESS cookers, Electric

Campaign sells 2,000 electric fireless cookers. J. U. Berry. il J Elec 55:183 S 1 '25

FIREMEN

Salaries

Hire of firemen and policemen. W: C. Beyer. Ann Am Acad 113:235-47 My '24

Salaries and retirement provision for firemen and policemen in San Francisco. Monthly Labor R 20:522 Mr '25

FIREPLACES

Back to first principles. T. W. Reynolds. diags Heat & Ven 21:55 D '24

Building a fireplace in the old home. W. E. Belcher. diags Bldg Age 46:131 D '24

FIREPROOF construction

Build fire-safe schools. A. C. Carruthers. il Safety Eng 50:141-53 S '25

Comparison of three types of schoolhouse construction. A. R. Reilly. diag plans Am Arch 125:416-18 Ap 23 '24

Comparison of types of fireproof construction. C. L. Post. il diags W Soc E J 29:278-89 Jl '24; Same. Eng & Contr (Bldgs) 62:683-95 S 24 '24

Do we build to burn? V. G. Marani. Safety Eng 50:231-6 O '25

Fire protection in building design. E: A. Barrier and J: O. Taber. il Boston Soc C E J 11:85-106; Discussion. 106-8 Mr '24

Fire-resistive classifications for walls and partitions. Concrete 23:194-5 N '23

Fire resistive construction for farm buildings. T. F. Laist. diags plans Bldg Age 46: 63-6 F '24

Fire resistive houses a present reality. W. Clay. Arch & Bldg 55:126-7 D '23

Fire safe construction will lessen losses. Ry R 77:567-8 O 10 '25

Fire-stopping in dwelling construction. D. F. Holtman. Bldg Age 46:84-5 Jl '24

Fireproof gypsum tile. il Safety Eng 48:201-4 N '24

Fireproof school building contains novel features. F. A. Naramore. il diags plans Concrete 25:216-22 D '24; Same. Eng & Contr (Bldgs) 63:619-28 Mr 25 '25

More fire resistive material needed in dwelling construction. A. C. Carruthers. il Safety Eng 50:13-25 Jl '25

Physical properties of structolite. il Eng & Contr (Bldgs) 63:403-6 F 25 '25

Reducing fire risk in residential construction; house of Wharton Clay, Winnetka, Ill. il plans Arch Forum 40:197-200 My '24

Saving money by leaving concrete floor-beams as ceiling. R. D. Snodgrass. il Eng N 93:630-1 O 16 '24

Schedule for rating properties of fireproof construction. E: R. Hardy. Spectator 113: 31-3 N 6; 24-5 N 13 '24

Some structural details of the Underwriters' laboratory addition, Chicago. diags plan Eng & Contr (Bldgs) 61:1153-9 My 28 '24

Structolite—a new fireproof material. A. C. Carruthers. il Safety Eng 49:69-73 F '25; Same abr. Am Ind 25:28-31 Mr '25

Structural quality gypsum concrete. il Am Arch 127:237-40 Mr 11 '25

What an architect told a friend on building a home. W: O. Ludlow. il Safety Eng 50: 77-80 Ag '25

See also Brick construction—Fire resistance; Concrete construction—Fire resistance; Concrete houses; Fire doors; Fire resisting materials; Fire walls; Metal lath; Steel construction

Costs

Analysis of cost of types of fireproof construction. A. F. Klein. diags W Soc E J 29: 290-300 Jl '24; Same. Eng & Contr (Bldgs) 62:904-14 O 22 '24

FIREPROOFING

Fire resistance of cable fireproofing. W. F. Davidson. il Elec W 85:671-2 Mr 28 '25

Fireproofing of structural steel. A. W. Sinnamon. diags Iron Age 115:694-6 Mr 5 '25

Oxylene timber fireproofing process. il diags Engineering 119:11-13 Ja 2 '25; Excerpt. Eng & Contr (Bldgs) 64:193 Jl 22 '25

Remarkable property of selenium; flame-proofing of electric wires. E. C. Crocker. Ind & Eng Chem 17:163 F '25

FIREPROOFING of paper

Colloid paper process. Paper 34:1011 S 18 '24

FIREPROOFING of textiles

Fireproofing of textile fabrics. I. Ginsberg. Textile Col 46:363-5 Je '24

Fireproofing textile fabrics. I. Ginsberg. Textile World 65:489-90+ Ja 26 '24

FIRES

American fire loss for 1923. il Safety Eng 49: 117-24 Mr '25

Another wooden shingle roof conflagration; Berkeley, California. A. C. Carruthers. il Safety Eng 46:237-42+ N '23

Burning of The Breakers at Palm Beach. il Safety Eng 49:171-2+ Ap '25

Carelessness and the fire loss. C: E. Worthington. Econ W n s 27:708-9 My 17 '24

Causes of fire in dyestuff plants. W: D. Milne. Chem & Met Eng 30:388-90 Mr 10 '25

Causes of fires in England. Safety Eng 50: 95-8 Ag '25

Causes of the recorded fires in the United States in 1923. Econ W n s 29:315 F 28 '25

Economic loss of the American people through fire in 1923. A. R. Marsh. Econ W n s 29:236 F 14 '25

Economic significance of fire waste. F. H. Wentworth. Am Water Works Assn J 12: 179-85 O '24

Famous nitrate fires of history. C: E. Munroe. il Chem & Met Eng 31:962-6 D 22 '24

Fire destruction of property in 1922 $506,541,000.00. il Safety Eng 47:177-82 Ap '24

Fire hazards of Wisconsin. Safety Eng 49: 229 My '25

Fire losses in Great Britain in December and during 1924. Econ W n s 29:170 Ja 31 '25

Fire losses in the United States and Canada in December and for the year 1923. Econ W n s 27:96-7 Ja 19 '24

Fire losses in the United States and Canada in December and during 1924. Econ W n s 29:96-7 Ja 17 '25

Fire tragedy at school; Hope development school for deficient girls at Playa del Rey. A. C. Carruthers. il Safety Eng 48:27-9 Jl '24

Jersey City nitrate fire. il map Chem & Met Eng 31:960 D 22 '24

Let's cost account our fires. R. C. Willoughby. il Nation's Business 13:31-4 S '25

North Carolina's annual fire loss as an economic disease. W. J. Matherly. Econ W n s 28:420-1 S 20 '24

Notable manuscript fire. il Safety Eng 48:236-8 D '24

Official analysis of the annual cost of fires in Canada. Econ W n s 29:639 My 2 '25

Plain facts for all roofers; a brief submitted in support of anti-wood shingle ordinance for Shreveport. Sheet Metal Worker 16:696-7 O 23 '25

FIRES—*Continued*
Report on fire prevention. Safety Eng 48:224-5 N '24
Roofs and the annual fire loss. Sheet Metal Worker 16:620-1+ S 25 '25
Structural conditions leading to the spread of a fire from an old three-story hotel to the fifth and seventh floors of a class A building. Eng & Contr (Bldgs) 60:1358-9 D 26 '23
Two disastrous fires in Jersey City. il Safety Eng 48:256-9 D '24
What is your city's per capita loss? Safety Eng 48:117-18 S '24

See also Arson; Concrete construction—Fire resistance; Electric fires; Fire extinction; Fire protection; Forest fires; Gas, Natural—Fires and fire protection; Gas fires; Kerosene, Accidents from; Mine fires; Oil burning equipment—Fires and fire protection; Oil fires; Salvage (fires); Ships—Fires and fire protection; Spontaneous combustion

FIRES, Liability for
Law relating to personal liability for fires in France. Econ W n s 27:60-1 Ja 12 '24

FIRESTONE, Harvey S.
Business memoirs. S: Crowther. System 47: 729-34; 48:31-5+, 164-8, 283-6+, 399-402+, 563-7 Je-N '25
"To be successful, a man must be a profit-maker"—Firestone. B. J. Duncan. por il Forbes 15:15-18+ O 1 '24

FIRESTONE tire and rubber company
Americans to grow rubber in Liberia. map India Rubber W 77:650-2 Ag '25
Waste elimination; plant program with far-reaching results. H. S. Firestone. il Factory 35:35-8 Jl '25

FIRING
Erzielung hoher wirtschaftlichkeit von feuerungen. K. Huffelmann. Stahl & Eisen 44: 1488-91 N 20 '24
Firing question. V. A. Miller. diags Am Gas Assn Technical sec v 5:1118-20; Discussion. 1121-5 '23
How to heat your home. S: S. Wyer. Heat & Ven 21:82 D '24; 22:87 Ja; 92 F '25

See also Boilers—Firing; Boilers—Gas firing; Boilers—Oil firing; Boilers—Wood firing; Combustion; Draft; Fuel; Furnaces; Kilns—Firing; Stokers, Mechanical

FIRST aid in illness and injury
At the junior first aid meet, Los Angeles. E. B. Lefferts. il Nat Safety N 12:29-30 S '25
Essentials of first aid work. H. W. Gentles. Nat Safety N 10:5-7 Ag '24
Every New river co. employee a first aid man. il Nat Safety N 11:22 Ap '25
First aid after accidents. H. W. Gentles. Ry R 77:713 N 7 '25
First aid education offered by Bureau of mines. A. F. Hinton. Nat Pet N 16:47-8 Ag 27 '24
First aid in emergencies. E. L. Eliason. 4th ed., rev. & enl. 234p Lippincott '24
First aid training makes real safety enthusiasts. E. B. MacDonald. Nat Safety N 12:32 Ag '25
First aid training; report of Pacific coast electrical association. J Elec 54:426-8 Je 1 '25
International first aid and mine rescue contest. il Min Cong J 11:477+ O '25
Preventing faints and treating nervous shock. G. R. G. Fisher. il Nation's Health 7:474-6 Jl '25
Standard first aid treatment adopted by physicians in industry. il Nation's Health 7:568-9 Ag '25
Use first aid to teach safety to Western electric installers. il Nat Safety N 9:30 Ja '24
What is first aid to the injured? G. R. G. Fisher. Nation's Health 7:11-12 Ja '25
Wound infections cause lost time in industry. A. W. Colcord. Nation's Health 6:846-8 D '24

See also Bandaging; Bleeding, Prevention of; Electricity, Injuries from; Iodine—Therapeutic use; Mine rescue work; Respiratory apparatus; Resuscitation

FISCAL year
Fetish of the calendar as a fiscal year. G. Cherry. J Account 39:125-30 F '25
Why sales managers should work for the dull season inventory. A. A. Friestedt. Sales Management 8:945-6 Je 27 '25

FISETOL
Action of diazomethane on some aromatic acyl chlorides; synthesis of fisetol. M. Nierenstein, D. G. Wang and J. C. Warr. Am Chem Soc J 46:2551-5 N '24

FISH, Frozen
Modern fish freezing. P. W. Petersen. Refrig W 59:13-18 S '24
Modern fish freezing plant. P. W. Petersen. il plan Refrig Eng 10:425-31 Je '24

FISH, Salted
Is salt a preservative? W: W. Browne. Chem Age 32:317-18 Jl '24

FISH, Smoked
Drying and smoking of fish for our tables. J. W. Piatt. il Gas Age 55:721-3+ My 16 '25

FISH flour
Edible fish flour; Hiller process. il diag Chem & Met Eng 31:886 D 8 '24
Edible fish flour; patent. Chem & Met Eng 31:236 Ag 11 '24; Chem Age 32:394 S '24

FISH meal
Drying by indirect heat conserves ammonia in fish meal. A. W. Allen. il Chem & Met Eng 32:568-9 Je '25
Investigations on fish meals; the nature of the water-soluble nitrogen compounds. W. L. Davies. Soc Chem Ind J 44:487-91 O 16 '25
New legislation on fertilisers and feeding stuffs. Chem Age (Lond) 13:224-5 Ag 29 '25

FISH oil
Fish oils: a great Norwegian industry. Chem Age (Lond) 12:6-7 Ja 3 '25
Les huiles d'animaux marins. H. Marcelet. bibliog Chimie & Ind 13:707-17 My '25

See also Dogfish liver oil; Menhaden oil; Salmon oil

FISH patrol, Aerial
Possibilities of the aerial fish patrol. E. L. Jones. il Aviation 17:724-5 Jl 7 '24

FISH scales
Jewelry from fish scales. D. K. Tressler. il Sci Am 131:180 S '24

FISH trade
Labor union takes a hand in sales problem of an industry; cooperative marketing of fish. J. M. Mosely. Ptr Ink 126:61-2 Ja 24 '24

Advertising

Canada starts a nation-wide campaign to increase sale of fish. B. R. Brooker. Ptr Ink 125:89-90+ D 13 '23

FISH waste
Fertilisers from fish waste. Chem Age (Lond) 13:250 S 5 '25

See also Fish meal

FISHER body corporation
Steam plant of Fisher body corporation. C. K. Little. il Power 60:240-3 Ag 12 '24

FISHERIES
Commercial fisheries. Comm M 7:21-30 N '25; Same. Econ W n s 30:728-31 N 21 '25
Fishery statistics of England and Wales. E. S. Russell and T. Edser. Roy Statis Soc J 88:221-50; Discussion. 250-9 Mr '25
Necessity mothers the fisherman. J. H. Collins. il Sci Am 130:150-1 Mr '24
Les transformations du port de Lorient. A. Pawlowski. il map plans Génie Civil 86:1-5 Ja 3 '25

See also Fish patrol, Aerial; Fishermen

By-products

Gorton-Pew fisheries turn a by-product into an advertisable product. R. Crothers. Ptr Ink 127:101-2 Ap 3 '24

FISHERIES—*Continued*

Management

Modern management in an ancient industry. T. C. Eckstein. il Ind Management 66:368-72 D '23

FISHERMEN

Fishermen, Alaska. Monthly Labor R 19:598-600 S '24

FISHES

Clogging of screens by fish. L. Metcalf. Am Water Works Assn J 10:595-602 Jl '23; Excerpt. Eng & Contr (W W) 60:274-6 Ag 8 '23; Discussion. H. F. Dunham. Am Water Works Assn J 10:1119-20 N '23

Experiment in lifting salmon over high dams. J: N. Cobb. il J Elec 54:50-3 Ja 15 '25

Fish from artesian wells in the Sahara. R. L. Duffus. il map Sci Am 133:110-11 Ag '25

Little fishes and big oil pools. J: M. Macfarlane. Sci Am 130:244+ Ap '24

Power dams and fish. Elec W 84:482 S 6 '24; Same. Power 60:437 S 9 '24

Proximate composition of certain Pacific coast fishes. D. B. Dill. Ind & Eng Chem 17:629-30 Je '25

Salmon elevator to be tried out on White Salmon river. il J Elec 53:343 N 1 '24

See also Fish, Frozen; Fish, Salted; Salmon

FISHING boats

Fishermen of the Atlantic. 152p Fishing masters' association, 15½ Boston fish pier, Boston, Mass. '25

Oil-engined trawler Beardmore. il diags Engineer 137:591-4 My 30 '24

FISHING tackle

Large uses of steel in small ways; fishing tackle. il Iron Tr R 75:1026-7 O 16 '24

Advertising

How advertising gives an expert's product its reputation; Goodwin Granger, manufacturer of fishing rods. J: T. Bartlett. Ptr Ink M 9:102+ S '24

FITCH, John, 1743-1797

Famous machinists of history. H. H. Manchester. Am Mach 61:492 S 25 '24

FITCHBURG, Massachusetts

Sewerage

Fitchburg sewage treatment plant. il Pub Works 56:8-9 Ja '25

FITS (machinery)

Basic allowance and tolerance system. W. L. Hindman. diags Mach 31:933-7 Ag '25; Discussion. 32:93-4, 231, 237, 329 O-D '25

Design of safe press fits. J. K. Wood. Am Mach 61:943-6 D 18 '24

Engineering standards. E. Buckingham. Mech Eng 47:555-6; Discussion. 556-9 Jl '25

Measuring systems and tolerance limits. P. J. Darlington. diags Mech Eng 47:903-5 N '25

Recent practice on locomotive axles, crankpins and piston rods. diags Am Mach 63: 397-8 S 3 '25

Standard tolerances and allowances for machined fits; first report of A.S.M.E. committee. diags Mech Eng 45:699-702 D '23

System of limits for different kinds of fits. C. D. Albert. diag Mech Eng 47:901-3 N '25; Discussion. E. C. Peck. 47:1165-6 D '25

Taper fits in locomotive work. C. H. French. Am Mach 60:608 Ap 24 '24

FITTING (machinery)

Modern practice in fitting studs. Am Mach 60:323-4 F 28 '24

Shrink-fitting a heavy shaft assembly. A. T. Parsons. il Am Mach 59:810-11 N 29 '23; Same. Mach 30:281 D '23; Same. Power Pl Eng 27:1172-3 D 1 '23; Same. Eng & Contr (W W) 60:1009-10 N 14 '23; Same. Iron Tr R 73:1679 D 20 '23; Same. Elec W 83:432-3 Mr 1 '24; Same cond. Power 58:698 O 30 '23; Same cond. Eng N 92:328 F 21 '24

Shrink-fitting waterwheel runner by induction. G. H. Bragg. il Elec W 83:291 F 9 '24; Abstract. Eng N 92:166 Ja 24 '24

FITZMAURICE, Sir Maurice, 1861-1924

Sketch. por Engineer 138:579-80 N 21 '24; Engineering 118:710-12 N 21 '24; Eng N 93:927 D 4 '24

FIUME

Fiume settlement. S. Corvino. Bankers M 108: 746-7+ My '24

FIVE- and ten-cent stores

How we adapt ourselves to selling at the same prices. H. T. Parson. il System 44:737-41 D '23

10 reasons why our stores sell over $715,000 a day. H. T. Parsons. System 48:27-30+ Jl '25

What makes 5 and 10 cent stores successful? R. Barstow. Nation's Business 13:44-6 F '25

FIXED nitrogen research laboratory

Fixed nitrogen research laboratory. F. G. Cottrell. Am Inst Chem Eng Trans v 15 pt 2:209-17; Discussion. 217-20 '23

FIXED property investments

Control of fixed property investments. J. H. Bliss. Management & Adm 7:405-10 Ap '24

FIXTURES (law)

Can a range stove connected to a range boiler be removed when the house is sold, if it has not been reserved? Dom Eng 110:51+ F 28 '25

Power equipment as real estate fixtures. A. L. H. Street. Power 61:475 Mr 24 '25

FIXTURES, Lighting. See Electric light fixtures; Lighting fixtures; Street lighting fixtures

FIXTURES, Machine tool. See Machine tools—Fixtures

FIXTURES, Plumbing. See Plumbing fixtures

FIZEAU effect

Kinematics. C: L. R. E. Menges. Philos Mag 6th ser 49:579-83 Mr '25

FLAGLER system. See Florida East Coast railway

FLAGMEN. See Railroads—Flagmen

FLAGSTAFF, Arizona

Water supply

Additional mountain water supply for Flagstaff, Ariz. R. L. Baldwin. il map Eng N 93:496-7 S 25 '24

FLAME propagation

Combustion of carbon-monoxide mixtures. J. H. Crowe and A. H. Newey. Philos Mag 6th ser 49:1112-31 Je '25

La combustion vive, détonante et non détonante, des milieux gazeux. F. Schwers. Chimie & Ind 12:983-92; 13:14-23 D '24-Ja '25

Constant pressure bomb. F. W. Stevens. il diags U S Nat Advisory Com for Aeronautics 1923:305-10 '24

Fuel-charge mixing and flame propagation. A. H. Denison. Soc Auto Eng J 17:273-7 S '25

How to select and use gaseous fuels. C. J. Wright. Chem & Met Eng 29:890 N 12 '23

Influence of nitrogen dilution on the speed of flame. C. Campbell, O. C. de C. Ellis and S. R. Stubbs. Chem Soc J 125:1957-63 S '24

Isothermen des flammenflusses in hüttentechnischen oefen. R. Dawidowski. il diags Stahl & Eisen 45:1265-73 Jl 23 '25

Limits for the propagation of flame at various temperatures in mixtures of ammonia with air and oxygen. A. G. White. Refrig Eng 12:92-4 S '25

Limits for the propagation of flame in inflammable gas—air mixtures; mixtures of air and one gas at the ordinary temperature and pressure. A. G. White. Chem Soc J 125:2387-96 N '24

Limits for the propagation of flame in inflammable gas—air mixtures; mixtures of more than one gas and air. A. G. White. Chem Soc J 127:48-61 Ja '25

Limits for the propagation of flame in inflammable gas—air mixtures; the effect of temperature on the limits. A. G. White. Chem Soc J 127:672-84 Mr '25

FLAME propagation—*Continued*
Limits of inflammability, and the control of gas mixtures. L. Caussé. diag Gas J (Lond) 171:394-5 Ag 12 '25
Movement of flame in closed vessels. O. C. de C. Ellis and R: V. Wheeler. il Chem Soc J 127:764-7 Mr '25
Photographic study of the production of flame in closed vessels. O. C. de C. Ellis. Engineering 120:286; Discussion. 287 S 4 '25
Some experiments on gas explosions in closed tubes, with particular reference to pinking. J. D. Morgan. il Automobile Eng 15:27-31 Ja '25
Suggested mechanism for antiknock action. G. L. Wendt and F. V. Grimm. diag Ind & Eng Chem 16:890-3 S '24

FLAMEPROOFING. See Fireproofing

FLAMES
Analysis of oil flames. J. L. Breese, jr. Sanitary & Heat Eng 103:393-5, 442+ Je 12-26 '25; Same abr. Heat & Ven 22:54-6+ Je '25; Abstract. Power 61:749-50 My 12 '25
Automatic feeder for coloured flames. J. J. Manley. il Philos Mag 6th ser 47:859-64 My '24
Conductivity of flames for rapidly alternating currents. H. A. Wilson and A. B. Bryan. Phys R 23:195-9 F '24
Electrical properties of flames containing salt vapors for high frequency alternating currents. A. B. Bryan. diags Phys R 23:189-94 F '24
Luminosity of flames. H. W. Webb. Gas J (Lond) 165:87 Ja 9 '24
Mobility of negative ions in flames by the Hall effect method. J. S. Watt. Phys R 25: 69-74 Ja '25
New method of flame analysis. O. C. Ellis and H: Robinson. diag plan Chem Soc J 127: 760-4 Mr '25
Photoluminescence of flames. E. L. Nichols and H. L. Howes. diags Phys R 22:425-31; 23:472-7 N '23, Ap '24
Radiation from nonluminous flames. R. T. Haslam, W. G. Lovell and R. D. Hunneman. diag Ind & Eng Chem 17:272-7 Mr '25
Theory of galvanomagnetic phenomena in flames. C. W. Heaps. Phys R 24:652-7 D '24

See also Bunsen flame; Combustion; Gas burners; Gas lighting; Oxyacetylene flame

FLANGES

See also Pipe flanges; Pipe joints

Standards

Standards for steel flanges for high pressures definitely planned. Am Mach 59:849 D 6 '23

FLANGING machines
12-ton flanging press. il Ry R 73:916-17 D 22 '23

FLANNEL
Fancy flannel dress goods. il Textile World 66:113+ Jl 5 '24

FLASH point
Flash point. J. B. Rathbun. Pet Age 15:63, 65 Je 1; 55, 57 Je 15; 16:55, 57 Jl 1; 61, 63 Ag 1 '25
Flash point of fuel oil. Marine Eng 29:595-8 O '24
Report of sub-committee XII on flash. Am Soc T M Pro 24 pt 1:539-42 '24

FLASHING
Constructive criticism on flashing methods. W: Neubecker. diags Sheet Metal Worker 15:949-50+, 1028-9; 16:12, 121-2, 265-6, 446-7 Ja 2-F 13, Mr 27, My 22, Jl 17 '25
Criticism on the inverted V. H. A. Daniel. il Sheet Metal Worker 16:12-13 F 13 '25
Flashings and hip moldings. diags Sheet Metal Worker 15:763+ O 24 '24
Keeping buildings dry. C. Fidler. Arch & Bldg 56:96-7 O '24; Same. Eng & Contr (Bldgs) 63:215-16 Ja 28 '25
United States government master specification for the installation of metal flashings with built-up bituminous roofing. U S Bur Stand Circ 180:1-3 '24

FLASHLIGHTS, Electric. See Electric flashlights

FLATHEAD river, Montana
Power possibilities of the South Fork. B: E. Jones and E: E. Jones. il maps Eng N 93: 96-8 Jl 17 '24

FLATIRONS, Electric. See Electric irons

FLAVORING extracts

See Vanilla

FLAVYLIUM compounds
Synthesis of pyrylium salts of anthocyanidin type; flavylium salts related to chrysin, apigenin and luteolin. D: D. Pratt, R. Robinson and P. N. Williams. Chem Soc J 125:199-207 Ja '24
Synthesis of pyrylium salts of anthocyanidin type; polyhydroxyflavylium salts related to chrysin, apigenin, lotoflavin, luteolin, galangin, fisetin, and morin. D: D. Pratt and R. Robinson. Chem Soc J 127:1128-38 My '25

FLAX
Agriculture and the paint and varnish industry; work done with tung-oil nuts, flaxseed, and perilla. H: A. Gardner. il Oil Paint & Drug Rep 107:20+ F 9 '25
Bast fibres as substitutes for cotton. C: F. Goldthwait. il diag Textile World 67: 1825+, 2103+ Mr 14, 28 '25
Botanical study of the flax plant; the inheritance and inter-relationship of the principal plant characters. A. G. Davin and G. O. Searle. il diags Textile Inst J 16:T61-82 Mr '25
Breakdown of flax and similar fibre-strands during the preparing processes. G. F. New. Textile Inst J 16:T1-12 Ja '25
British Empire as a producer of the flax and hemp group of fibres. A. Wigglesworth. Textile Inst J 15:P321-32 Ag '24
Building linen plant in Oregon. il Textile World 67:3126-7 My 9 '25
Canadian flax industry since the war. G: Knowles. il Textile World 67:3533-4 My 30 '25
Chemical constituents of flax straw. S. D. Wells and E. R. Schafer. Paper Tr J 80:47-50 Ap 23 '25
Chemistry of lignin; flax lignin and some derivatives. W. J. Powell and H: Whittaker. Chem Soc J 125:357-64 F '24
Cottonization of flax. Am Dyestuff Rep 13:446 Je 30 '24
Cottonised flax and hemp as a substitute for cotton. P. Heermann. Textile Inst J 15: P85-6 Mr '24
Cottonising flax and hemp. C: F. Greenfield. Textile Col 47:565-7, 632-4 S-O '25
Duration and acceleration of flax-retting. F. Tobler. Soc Dyers & Col J 40:19 Ja '24
Electrification of flax spinning mills on heat economy lines; abstracts. C. F. Green. Elec R (Lond) 94:37-8 Ja 4 '24; Electrician 92: 254-5 F 29 '24
Experimental study of flax retting. J. V. Eyre and C. R. Nodder. il diags Textile Inst J 15:T237-72 My '24
Flax and its products. F. Bradbury. Textile Inst J 15:P333-47; Discussion. P371-3 Ag '24
Flax fibre; abstracts. C. R. Nodder. Textile World 66:769+ Ag 9 '24; Color Tr J 15:147-8 N '24
Flax preparing and spinning; abstract. F. Bradbury. Textile Inst J 15:P146-7 My '24
Flax supply association; annual report for 1922. Textile Inst J 15:P59-64 F '24
Flax supply association; annual report for 1923. Textile Inst J 16:P44-6 F '25
Flax variety trials. Textile Inst J 15:P425-6 Ag '24
Function of hot water in the wet spinning of flax. W: H. Gibson. Textile World 66:1127+ Ag 30 '24
Increasing importance of the flax industry in the United States. Chemicals (Dyestuffs sec) 16:199+ Je 22 '25
Inside story of Ford textile experiments. D. G. Woolf. Textile World 68:2773-4 N 7 '25

FLAX—*Continued*
Modern treatment of flax from the time of harvesting to the completion of spinning. J. V. Eyre. Textile Inst J 16:P250-6 Ag '25; Abstract. Chemicals (Dyestuffs sec) 17:101-2 O 12 '25
Our present knowledge of the retting process of flax. G. Ruschmann. il diag Textile Inst J 15:T61-74, T104-14 F-Mr '24
Report of N.P.O. & V.A. flax development committee. Oil Paint & Drug Rep 106:17+ O 29 '24; 108:25+ N 5 '25
Sorting machine for flax fibre-strands and similar material. J. A. Matthew and G. F. New. il Textile Inst J 16:T197-208 Je '25
Study of flax and kindred fibres. G. O. Searle. bibliog il Textile Inst J 15:T371-84 Jl '24
Study of flax straw for paper making. J: D. Rue, S. D. Wells and E. R. Schafer. il Paper Tr J 79:45-50 S 25 '24; Same. Paper 34:1037-42 S 25 '24
World supply. J. S. M. Ward. Textile Inst J 16:P11-12 Ja '25
See also Cotton, Substitutes for; Linen

FLAXSEED
American flaxseed crop needed. J. W. Daniels. Chem & Met Eng 32:84 Ja 19 '25
Canadian flaxseed crop and market statistics. Oil Paint & Drug Rep 105:45 Ja 21; 44g Ap 14; 46+ Ap 21; 106:72+ Jl 28 '24
Flaxseed and cottonseed, 1921-1924. Survey of Cur Business 30:117 F '24 [continued quarterly]
Flaxseed estimate for 1924. Oil Paint & Drug Rep 106:20 D 22 '24
World flax and flaxseed situation. Econ W n s 28:911 D 27 '24
See also Linseed oil

Prices
Flaxseed and linseed oil. Published in weekly numbers of Oil paint and drug reporter

FLEAS
Wicked flea. W: A. Riley. il Nation's Health 7:406-7 Je '25

FLEET corporation. See United States—Emergency fleet corporation

FLEETWOOD Hills, New York
Fleetwood Hills country club apartments. il plan Am Arch 128:97-8, pl 204-8 Jl 29 '25

FLEISCHMANN company
My three essentials of management. J. Fleischmann. il System 46:25-8+ Jl '24

FLETTNER, Anton
Portrait. Sci Am 132:82 F '25

FLETTNER rotor ship. See Rotor ships

FLETTNER rudder. See Rudders

FLEXURE
See Elasticity; Girders; Strength of materials

FLIES
Ubiquitous house fly. W: A. Riley. il Nation's Health 7:322-3 My '25

FLIGHT
Flight of birds. C. Fullerton. diags Roy Aeronautical Soc J 29:535-43 O '25; Discussion. 29:543-7, 590-7 O-N '25
See also Aeronautics

FLINT, Charles R., 1850-
Fifty years in world trade. por Am Exporter 94:15-18+ Mr '24
The fun I've had in business. C: R. Flint. Nation's Business 12:13-15 Mr; 22-4 Ap; 34-5 My; 38+ Je; 29-31 Ag; 36-8 S; 46+ O; 45-7 N '24

FLINT, Michigan
Water supply
Recommends storage reservoir for Flint. Eng N 92:805 My 8 '24

FLINT
Die umwandlung von flint in amorphen quarz. R: Grün. il Stahl & Eisen 44:883-7 Jl 24 '24; Discussion. 44:1775-7 D 25 '24

FLOAT bridges. See Transfer bridges

FLOATING cranes. See Cranes, Floating

FLOATING docks. See Dry docks

FLOCCULATION
Study of flocculation phenomenon with microscope. J: R. Baylis. diags Eng N 92:768-9 My 1 '24
See also Colloids

FLOOD control
Barrages-réservoirs en terre contre les crues, pour la protection de Dayton (E.-U.). Degove. il diags map Génie Civil 83:456-61 N 10 '23
Big water conservation and flood-control project of Texas. Manuf Rec 86:83 N 13 '24
Clarion river hydro-electric development. C: B. Hawley. Am Water Works Assn J 11: 409-15 Mr '24
Colorado river problem. W: Kelly. maps Am Soc C E Pro 50:795-836, pl 5 Ag '24; Abstract. Elec W 83:640-1 Mr 29 '24; Discussion. Am Soc C E Pro 50:1436-99; 51:262-88 N '24, F '25
Control of river floods with special reference to the Miami conservancy district of Ohio. C: H. Paul. il diags map J Fr Inst 198:161-79 Ag '24
Les crues de la Seine en janvier 1924 et 1910; les travaux de protection exécutés à Paris et dans la région parisienne depuis 1910. A. Bidault des Chaumes. il plans map Génie Civil 84:77-82 Ja 26 '24
Drainage and flood protection of an industrial district in Kansas. O. H. Horner. il diags map Eng N 94:238-40 F 5 '25
L'emploi de puits absorbants pour atténuer les crues de la Seine. G. Claude. Génie Civil 84:70-1 Ja 19 '24
Flood control project for lower Rio Grande. Eng N 93:99 Jl 17 '24
Flood protection of Winnipeg district. N. Barritt. plan Can Eng 48:379-80 Ap 7 '25
Flood reduction by reservoirs. R. E. Horton. Can Eng 49:482 O 20 '25
Floods and flood protection projects at Wichita. P. L. Brockway. il maps Eng N 93:828-32 N 20 '24
How river regulation and flood control can be made to extend old markets. W. Parker. Am Ind 25:33-5 O '24
How the Mississippi river is regulated. C: L. Potter. il diag Eng N 94:512-13 Mr 26 '25
Indianapolis flood protection is progressing. map Eng N 95:213 Ag 6 '25
Problem of the Colorado river. W: F. Durand. il maps Mech Eng 47:79-84 F '25
Rail terminals rebuilt at Pueblo; properties of Denver & Rio Grande Western reconstructed to make room for large flood prevention channel. O. L. Hoebel. il diags maps Ry Age 79:705-10 O 17 '25
River diversion and flood control projects in North Dakota. Eng N 94:774 My 7 '25
Some suggested ways of controlling the Mississippi floods. C: L. Potter. Eng N 94:556-9 Ap 2 '25; Discussion. 94:826 My 14 '25
States propose to regulate Arkansas river floods. Eng N 95:563 O 1 '25
Water conservation program for Los Angeles county. map Eng N 92:1088-90 Je 26 '24
Water power and flood control of Colorado river below Green river, Utah. E. C. La Rue. diag U S Geol S Water-supply Pa 556: 1-176, pl 1-79 '25
Wide use of concrete in conservancy project, Pueblo, Colorado. E. C. McCain. il diags Concrete 27:18-21 Ag '25
See also Barrages; Dams; Levees; Reclamation of land; Reservoirs; Rivers—Bank protection; Rivers—Regulation; Spillways

FLOOD insurance. See Insurance, Flood

FLOOD prevention. See Flood control

FLOODLIGHTING. See Light projection

FLOODS
Behavior of débris-carrying rivers in flood. F. N. Holmquist. il Eng N 94:362-5 F 26 '25
Effect of shape of catchment on flood discharge. G. R. Hearn. Engineering 117:87 Ja 18 '24

FLOODS—*Continued*

Flood flow characteristics. C. S. Jarvis. il Am Soc C E Pro 50:1545-81, pl 8 D '24; Discussion. 51:677-83, 902-8, 1118-54, 1475-80, 2041-56 Ap-My, Ag-S, D '25

Next great flood—where? H. A. Mount. il Sci Am 130:246 Ap '24

Study of the flood risk. Eng N 94:919 Je 4 '25

See also Flood control

Colorado

Trinidad, Col., revisited by large flood. map Eng N 95:280-1 Ag 13 '25

France

Les crues de la Seine en janvier 1924 et 1910; les travaux de protection exécutés à Paris et dans la région parisienne depuis 1910. A. Bidault des Chaumes. il plans map Génie Civil 84:77-82 Ja 26 '24

Georgia

Georgia floods—worst in 84 years. map Ry Age 78:361-2 F 7 '25

India

Effect of shape of catchment on flood discharge. G. R. Hearn. Eng N 92:489 Mr 20 '24

Floods in southern part of India do excessive damage. E. W. T. Slater. il Eng N 93:542 O 2 '24

Floods of the Damodar river and rainstorms producing them. E. L. Glass. Engineering 117:86 Ja 18 '24

Indian monsoons and floods in 1924. R. Ryves. Engineer 139:290-1 Mr 13 '25

1924 floods in Madras presidency. Engineer 140:124 Jl 31 '25

Jamaica

Flood damages power plant and pipe line in the Rio Cobre Valley, Jamaica. F. L. Bronstroph. il Eng N 94:440-1; Discussion. H. L. Cooper. 451 Mr 12 '25

Kansas

Floods and flood protection projects at Wichita. P. L. Brockway. il maps Eng N 93:828-32 N 20 '24

Manitoba

Spring run-off—its cause and intensity; flood conditions in the Red River valley. J. C. D. Taylor. maps Can Eng 47:169-74 Jl 22 '24

Montana

Flood flows or maximum runoffs of Montana streams. G: H. Ellis. Eng N 91:1016-17 D 20 '23; Discussion. J: F. Stevens. 92:88 Ja 10 '24

New England

Flood flows of New England rivers. C. H. Pierce. il Boston Soc C E J 11:327-75 O '24

Some floods and droughts on New England streams. C. M. Saville. map N E Water Works Assn J 39:1-31, pl 1-3 Mr '25

Panama Canal Zone

Flood in Panama Canal Zone. R. Z. Kirkpatrick. il map Eng N 94:244 F 5 '25

Quebec

Quebec floods run-off data. Can Eng 48:110 Ja 6 '25

Rocky Mountain region

Some floods in the Rocky Mountain region. R. Follansbee and P. V. Hodges. U S Geol S Water-supply Pa 520—G:105-29, pl 12 '25

Texas

Flood does little damage to Rio Grande project. Eng N 95:320 Ag 20 '25

Washington, D.C.

Floods in the Potomac. Eng N 92:911, 1031 My 22, Je 12 '24

Wyoming

C. B. & Q. recovers from severe floods. il maps Ry Age 75:968-70 N 24 '23

FLOOR coverings

Manufacture of floor covering. il Chem & Met Eng 32:480-5 My '25

See also Carpets; Linoleum; Oilcloth: Rugs

FLOOR lamps. See Electric lamps, Floor

FLOORING

Manufacture

New electrically driven flooring plant. E. B. Clement. il Gen Elec R 27:602-8 S '24

Statistics

Flooring and naval stores. Survey of Cur Business 39:94-5 N '24

Flooring and naval stores, 1921-1924; index number and numerical data. Survey of Cur Business 30:110-11 F '24

Manufacturing operations and the business cycle. W: L. Crum and H. B. Vanderblue. Harvard Business R 3:171-7 Ja '25

Oak flooring. Survey of Cur Business 33:36-7 My '24

FLOORS

Acid drainage systems; consideration for platers and cleaners. diag Brass W 21:132 Ap '25

British interior decoration-floors. A. E. Bulloch. il Arch Rec 56:368-74 O '24

Building code limitations on floor areas in buildings. R. G. Kimbell. Am Arch 125:301-8 Mr 26 '24

Choosing the factory floor. B. R. Magee and H. K. Ferguson. Ind Management 69:28-32 Ja '25; Same abr. Iron Age 115:1127+ Ap 16 '25

Clips for anchoring wooden floors to concrete. il Eng & Contr (Bldgs) 61:470-1 F 27 '24

Comparative costs on three types of factory floors for trucking runways. L. J. Clayton. Ind Eng 83:249 My '25

Composition flooring. R. R. Butler. Soc Chem Ind J (Chem & Ind) 42:980-2 O 12 '23; Same. Concrete 23:176-7 N '23; Same. Eng & Contr (Bldgs) 61:1405-6 Je 25 '24

Dynamic effect of moving floor loads; stresses measured in the floor and balcony of a college gymnasium. Am Arch 126:455-6 N 5 '24

Factory floor surfaces. A. B. MacMillan. 34p Aberthaw co., Boston '24

Feet, floors and health. A. B. Emmons. il Nation's Health 6:171-2 Mr '24

Floors for railway buildings. Ry R 74:498-9 Mr 15 '24; Same. Eng & Contr (Ry) 61:1120-2 My 21 '24; Excerpts. Eng N 93:147 Jl 24 '24

Floors for textile mills. il diags Textile World 67:3135+, 3707-8+ My 9, Je 6 '25

Floors: their construction and up-keep. K. D. Hamilton. il Factory 35:390-4+ S '25

Have you the right floors? K. D. Hamilton. il Factory 35:201-6+ Ag '25

How to lay and finish oak floors. W. L. Claffey. Bldg Age 46:124 D '24

Industrial flooring materials. C: A. Whittemore. Arch Forum 39:115-16 S '23; Same. Eng & Contr (Bldgs) 62:674-6 S 24 '24

Interior architecture; floor treatments—their architectural and decorative values. il Am Arch 127:499-504 Je 3 '25

Live-loads for building designs; standards recommended by Building code commission of the U.S. Department of commerce. Eng N 95:214 Ag 6 '25

Magnesite floor in industry. H. B. Kilmer. Ind Management 69:368-71 Je 25

Mosaic flooring of Santa Prassede, Rome. A. Mausolff. il Arch Forum 42:17-22 Ja '25

Parquet floors. diags Arch & Bldg 55:115-16 N '23

Printing-press floor stiffened by concrete bridging girder. E. S. Parker. il diag Eng N 93:681 O 23 '24

Redwood block floor for various uses. Eng & Contr (Bldgs) 64:202 Jl 22 '25

Renovation of old floors. A. A. Kelly. Bldg Age 47:154+ My '25

Sleeper floor construction. il diags Bldg Age 46:156+ N '24

Special design wood floors. il Arch & Bldg 55:123-4 D '23

Special saw rigged up to cut out wooden flooring. il Ind Eng 83:247 My '25

FLOORS—*Continued*
Textile mill mechanical department: dye house floors. Textile World 66:95+ Jl 5 '24
Why should wood joists or brick-bearing walls be used in modern school buildings? A. R. Reilly. plans Concrete 23:227-9 D '23

See also Bridges—Floors; Building; Cork tiling; Fireproof construction; Floor coverings; Mosaic; Pavements

Anti-slip surfaces

Making walkways safe. Safety Eng 47:321 Je '24
Progress report on walkways research. Safety Eng 49:125-6+ Mr '25
Safety code for walkway surfaces. Safety Eng 49:86 F '25

FLOORS, Asphalt
Asphalt flooring laid in sub-zero weather. L: Garbi. il Can Eng 48:575-7 Je 16 '25; Same abr. Eng & Contr (Bldgs) 64:1186-7 N 25 '25
Asphalt floors for shipping rooms. C: A. Mullen. Can Eng 46:427-9 Ap 15 '24; Same abr. Paper 33:16-18 Ja 31 '24

FLOORS, Cement
Abuse of cement floors by metal truck wheels. Management & Adm 9:420 My '25
Cement floors that will not crack. I. P. Hicks. diag Bldg Age 46:87 S '24

FLOORS, Concrete
Applying the top coat to concrete floors. N. L. Protheroe. Concrete 24:30 Ja '24
Building strengthened; beams built up with gunite. il Concrete 25:223-4 D '24
Cantilever floor construction for concrete buildings. il diag Eng N 94:845-6 My 21 '25; Génie Civil 87:174-6 Ag 22 '25; Discussion. Eng N 94:1072; 95:318 Je 25, Ag 20 '25
Concrete floor finish. E. E. Davis. Am Concrete Inst Pro 21:183-7 '25; Abstract. Concrete 26:107 Mr '25
Economy in design of flat-slab floors. B. P Floyd. diags Eng N 95:394 S 3 '25
English pre-cast concrete floor. il Eng & Contr (Bldgs) 61:910-12 Ap 23 '24
Floor anchors. diag Eng & Contr (Bldgs) 62: 220 Jl 23 '24
Floor construction for power plants. Power Pl Eng 28:804 Ag 1 '24
Floors and sidewalks—walls and chimneys. H. H. Siegele. il diags Concrete 24:168-9 Ap '24
Forms for reinforcing concrete building construction. J. A. Turner. diags Am Concrete Inst Pro 21:85-90 '25; Same. Concrete 26: 124-5 Ap '25
Granolithic floor surfaces. A. B. MacMillan. Concrete 26:102-3 Mr '25
Heavy-duty concrete floors. W. E. Hart. il Concrete 23:221-2 D '23
Jointless floors. Engineering 120:516 O 23 '25
Laying of concrete floors. P. Weiss. Eng & Contr (Bldgs) 61:699 Mr 26 '24
Method of surface-hardening old and new concrete flooring. Textile Col 47:729-30 N '25
Plancher en béton armé se montant sans coffrages, de la Société des chaux et ciments du Languedoc. L. Malphettes. diags Génie Civil 85:432-3 N 8 '24
Progress in permanent house construction. il plans Concrete 26:45-51 F '25
Reinforced concrete most economical in school construction. diags plans Concrete 23:132. 135-6 O '23; Same. Eng & Contr (Bldgs) 60:1345-8 D 26 '23
Saucer-shape reinforced concrete floor supports stage. P. Calfas. il diag Concrete 27: 41 Ag '25
Self-supporting reinforcement for concrete floor. il diag Eng N 91:921-2 D 6 '23
Steel frame textile mill building with concrete floors. il diags Eng N 95:341-4 Ag 27 '25
Using concrete floor slabs. D. A. Hewitt. Bldg Age 46:102 My '24
Wooden forms for concrete joists. il diag Eng & Contr (Bldgs) 64:687-8 S 23 '25

See also Floors, Terrazzo

Repair

Repairing steel floor framing damaged by corrosion. il diag Eng N 93:131 Jl 24 '24
Resurfacing granolithic floors. G. W. Maker. Concrete 25:75-6 Ag '24

Specifications

Standard specifications for concrete floors. Am Concrete Inst Pro 20:739-56 '24

Testing

Heavy test loads on hollow cinder block floor slabs cause slight permanent deflection. il diags Concrete 24:135-7 Ap '24

FLOORS, Marble
Marble floors for department stores. F. Z. Salomon. Eng & Contr (Bldgs) 61:1410-11 Je 25 '24

FLOORS, Rubber
Cutting rubber tile. E. Swanson. diags India Rubber W 72:404 Ap '25
Development of cotton reinforced rubber. J. H. Stedman. il India Rubber W 69:289-90 F '24
Installation of rubber flooring; cost of manufacture—installation costs. E. Swanson. il India Rubber W 71:271-2 F '25
Interlocking rubber tiling. il diag India Rubber W 72:593-4 Jl '25
Laying rubber floor tiling. il diag India Rubber W 73:11-12 O '25
Numerous uses for rubber floors. E. Swanson. il India Rubber W 72:459-61 My '25
Typical rubber floor designs. E. Swanson. diags India Rubber W 71:83 N '24

FLOORS, Steel
Steel flooring and stairs. il Textile World 67: 1971 Mr 21 '25; Same. Blast F & Steel Pl 13:233 Je '25

FLOORS, Terrazzo
Terrazzo for heavy duty industrial floors. Eng & Contr (Bldgs) 61:216 Ja 23 '24

FLORIANOPOLIS, Brazil

Bridges

Design of the Florianopolis suspension bridge. D. B. Steinman. il diags Eng N 93:778-82 N 13 '24; Discussion. 93:883 N 27 '24

FLORICULTURE
Refrigeration and horticulture. J. S. Brunton. Refrig W 60:23-4 Ja '25

FLORIDA
Florida—a whole state going to sales school. J. H. Collins. il Ptr Ink M 11:45-6+ N '25
Henry M. Flagler's work in and for Florida. R: H. Edmonds. Manuf Rec 85:75-6 Mr 20 '24
Needed badly—a Florida merchandise relief mission. J. H. Collins Ptr Ink 132:41-2+ S 17 '25
See Florida for yourself. J. Washburn. il Prof Eng 10:5+ Mr '25

See also Banks and banking—Florida; Electric plants (central stations)—Florida; Railroads—Florida; Roads—Florida

Economic conditions

Absurdities vs. realities in Florida. W: J. Kelley. Comm & Fin 14:1959-60 O 7 '25
Diversified development enriching west Florida. P. S. Hayes. Manuf Rec 87:81-2 Je 18 '25
Does the Florida boom hinge on business conditions? R. W. Babson. il Forbes 17:9-11+ O 15; 12-14+ N 1 '25
Florida's golden prospects pictured in cold figures. M. Zurndorf. map Manuf Rec 88: 82-3 S 10 '25
Florida's siren song. P. Sebestyen. Comm & Fin 14:1495-6 Ag 5 '25
More about Midas land. W. C. Hill. Comm & Fin 14:2201 N 11 '25
Notes on progress of Florida's west coast. J. H. Reed. il Manuf Rec 87:111-12 My 7 '25
Review of the Florida situation. G: M. Chapin. Manuf Rec 88:77-9 O 22 '25

FLORIDA—*Continued*

Industries and resources

Broad campaign for developing Florida farm land. Manuf Rec 88:95 O 1 '25
Citrus fruit industry of Florida. G: M. Chapin. il Manuf Rec 86:223-6 pt 2 D 11 '24
Florida manufacturing census; 1923 and 1921. Manuf Rec 87:74-5 My 28 '25
How long will Florida boom last? G. L. Miller. il Forbes 16:666-8 Ag 15 '25
Present and future possibilities of Florida. C. A. Harder. Manuf Rec 86:362-3; Statistics. 367 pt 2 D 11 '24
Simply staggering! says Florida. W. B. Powell. il Nation's Business 13:19-22 My '25
Why I have invested heavily in Florida. B. Collier. il Forbes 16:803-4+ S 15 '25

See also Mines and mineral resources—Florida; Rubber industry and trade—Florida

FLORIDA East Coast railway
Annual report, year ended Dec. 31, 1924. Comm & Fin Chr 120:2538-9 My 16 '25; Ry R 76:962 My 23 '25
Final valuation of Florida East Coast. Ry Age 76:1097-1100 My 3 '24
Improvement program for 1925. Ry Age 78: 1004, 1113 Ap 11, My 2 '25

FLORIDA exposition, New York
Florida holds a mid-winter fair in New York city. R: W. Edmonds. il Manuf Rec 85:65-7 F 28 '24

FLORIDA state college for women, Tallahassee
Health work at Florida state college for women. E: Conradi. il Nation's Health 6: 661-3+ O '24

FLORIDA Western & Northern railroad
Big railroad extension almost ready in Florida. il map Manuf Rec 86:67-9 D 18 '24
Construction features of F. W. & N. R. R. F. Ramsaur. il Eng & Contr (G C) 63: 1093-1101 My 20 '25
Heart of Florida opened. C. J. Blanchard. il Manuf Rec 86:442-3 pt 2 D 11 '24

FLORISTS

Advertising

Enterprise of florists in getting business. J. W. Rodgers. Ptr Ink 126:112 Mr 13 '24

FLOTATION machines
Development and operation of a 50-gram flotation machine. J: F. Gates and L. K. Jacobsen. il diag Eng & Min J 119:771-2 My 9 '25
Kraut flotation machine. diags Eng & Min J 119:76 Ja 10 '25; Chem & Met Eng 32:293-4 F 16 '25
New type of flotation machine at Globe, Ariz. D. L. Forrester. diags Eng & Min J 120:492 S 26 '25
Simpson pneumatic flotation cell. il diag Eng & Min J 119:423 Mr 7 '25

FLOTATION plants
La Corona company starts new mill in Nayarit, Mexico. A. E. Maas. il Eng & Min J 119:66-7 Ja 10 '25
Equipping the one-man mill. D. Lay. il diag Eng & Min J 118:245-9 Ag 16 '24
Hewer mining co. finishes new 100-ton flotation plant. il Eng & Min J 118:308-9 Ag 23 '24
Plants using differential flotation. Eng & Min J 120:502 S 26 '25

FLOTATION process
Analysis of xanthate. W. S. Calcott, F. L. English and F. B. Downing. Eng & Min J 118:980-1 D 20 '24
Application of the bubble column flotation process. R. C. Canby. Eng & Min J 119:534 Mr 28 '25
Barium polysulphide in sulphidizing oxidized ores for flotation. E. S. Leaver and H. M. Lawrence. U S Bur Mines Rep of Invest 2698:1-4 Ag '25 (typew); Abstracts. Chem Age (Lond) 13:278 S 12 '25; Eng & Min J 120:657 O 24 '25
Barren pyrrhotite separated from copper-nickel ores by selective flotation. Eng & Min J 117:929 Je 7 '24
Basis for selecting flotation agents. H. E. Fredrick. Eng & Min J 118:11-12 Jl 5 '24
Certain interfacial tension equilibria important in flotation. W. H. Coghill and C. O. Anderson. il diags U S Bur Mines Tech Pa 262:1-55 '23
La concentration du minerai de cuivre par flottage à la New Cornelia copper co., à Ajo (Arizona, E.-U.). P. Boudreaux. il diags Génie Civil 86:153-8 F 14 '25
Consumption of reagents used in flotation, 1923-24. T: Varley. U S Bur Mines Rep of Invest 2709:1-6 O '25 (typew)
Differential flotation of copper and iron sulphides. H. E. Keyes. Eng & Min J 120: 135-6 Jl 25 '25
Electrometer tests in flotation. T. M. Bains, jr. il Eng & Min J 117:885-6 My 31 '24
Federal M. & S. co. earns at high rate. A. B. Parsons. flow sheets il Eng & Min J 120: 421-2 S 12 '25
Floating and leaching copper-molybdenum ores. H. A. Doerner. flow sheet Eng & Min J 119:925-6 Je 6 '25
Froth flotation explained by X-ray. C. G. McLachlan. diags Eng & Min J 120:408-9 S 12 '25; Discussion. 120:578, 662, 739, 822, 981 O 10, 24, N 7, 21, D 19 '25
Milling and flotation. C: E. Locke. Eng & Min J 119:109-11 Ja 17 '25
Milling and flotation in 1923. A. F. Taggart. diag Eng & Min J 117:104-6 Ja 19 '24
Oil-less flotation of minerals. T. M. Bains, jr. il Eng & Min J 119:205-6 Ja 31 '25
Present status of differential flotation. A. W. Fahrenwald. U S Bur Mines Rep of Invest 2700:1-12 Ag '25 (typew)
Present trend in flotation flow-sheets and classification of flotation feed. A. W. Fahrenwald. flow sheets U S Bur Mines Rep of Invest 2694:1-7 Jl '25; Same cond. Chem Age (Lond) 13:sup34-5, sup47 N 7, D 5 '25
Pulp-density indicator useful in flotation work. R. S. Handy. diags Eng & Min J 120:536 O 3 '25
Selective flotation a feature at the Magistral-Ameca plant. H. M. Payne. flow sheet il diags Eng & Min J 116:1105-8 D 29 '23
Selective flotation as applied to Canadian ores. C. S. Parsons. Can Chem & Met 8:187-90 Ag '24
Selective flotation at Nacozari. W: T. MacDonald. flow sheets il Eng & Min J 118: 445-54 S 20 '24
Selective flotation at Timber Butte. E: H. Robie. flow sheet il Eng & Min J 120:685-9 O 31 '25
Selective flotation methods. Eng & Min J 119: 374 F 28 '25
Shattuck-Arizona mill. G: J. Young. il Eng & Min J 120:612 O 17 '25
Simple flow sheet for an all-flotation plant. Eng & Min J 120:507 S 26 '25
Sodium sulphide and classification troubles. G. E. Stowell. Eng & Min J 117:362 Mr 1 '24
Some practical points on flotation. Chem Age (Lond) 12:sup9 F 7 '25
Theory of the flotation process; abstract. O. Bartsch. Eng & Min J 119:12 Ja 3 '25
Types of flotation reagents. Eng & Min J 120:619 O 17 '25

See also Flotation machines

FLOTATION process (coal)
Die anwendung des schwimmverfahrens zur aufbereitung von kohle. O. Schäfer. diags Stahl & Eisen 45:1-7, 44-51 Ja 1-8 '25
Cleaning of coal by the Conklin flotation process; abstract. Mech Eng 47:44 Ja '25
La concentration par flottage des schistes de terril aux mines de Nœux (Pas-de-Calais). Chataignon. Génie Civil 85:277-8 S 27 '24
Making coke from non-coking coals by froth flotation. Coal Age 26:867 D 18 '24
Much high-grade material in inferior coals which sand flotation can release. H. M. Chance. il Coal Age 25:633-5 My 1 '24
New source of high-grade coking coal; abstracts. H. M. Chance. il Iron Age 112:1713-14 D 27 '23; Iron Tr R 74:236 Ja 17 '24

FLOTATION process (coal)—*Continued*
Plant in Newark makes briquets by Trent process. F. H. Kneeland. il Coal Age 26:715-16 N 20 '24
Les procédés modernes d'enrichissement mécanique des combustibles; le lavage des charbons par flottage. C: Berthelot. Génie Civil 85:531-2 D 6 '24
Studies of froth flotation and Rheolaveur coal cleaning systems in Great Britain. C. H. S. Tupholme. Coal Age 27:682-4 My 7 '25

See also Coal cleaning

FLOUR
Chemistry of flour and bread making. R. Harcourt. bibliog Can Chem & Met 8:82-5 Ap '24
Flour and grain products in 1923. Manuf Rec 87:79 F 26 '25
Observations on the drying of flour with notes on its hygroscopic properties. E. R. Smith and L. C. Mitchell. Ind & Eng Chem 17:180-3 F '25
Physico-chemical properties of strong and weak flours; the physical state of the gluten as influencing the loaf volume. P. F. Sharp, R. A. Gortner and A. H. Johnson. J Phys Chem 27:942-7 D '23
La valeur boulangère d'une farine de froment. B. d'Arbouet. diags Chimie & Ind 14:21-8 Jl '25

See also Fish flour; Sweet potato flour

Analysis

Amino acid distribution in proteins of wheat flours. R. J. Cross and R. E. Swain. Ind & Eng Chem 16:49-52 Ja '24
Detection of persulphate in flour, and a recent bleaching agent for flour. J. Miller. Soc Chem Ind J 43:239-40 Jl 18 '24
Determination of moisture in wheat and flour. H. Snyder and B. Sullivan. Ind & Eng Chem 16:741-4, 1163-7; 17:311-14 Jl, N '24, Mr '25
Starch. J. Woodman. Textile Col 47:640-1, 736-7, 805-6 O-D '25 (to be cont)

Manufacture

Flour manufacture. C. H. Bailey. Ind & Eng Chem 15:1217-18 D '23
How modern flour is made. S. Soars. il Am Exporter 94:101+ Ap '24
Milling chemistry, questions and answers. S. J. Lawellin and N. C. Evans, comps. 128p National miller, Chicago '25

FLOUR handling
New plant eliminates hand labor; Standard milling company. A. P. Walker. il plan Management & Adm 9:513-18 Je '25
Redler bin discharger for flour and similar fine materials. diag Cassier's Ind Management 12:265-6 Ap '25

FLOUR mills
Experimental milling and baking (including chemical determinations). J. H. Shollenberger, W. K. Marshall and D. A. Coleman. U S Agric Bul 1187:1-54 '24
Fast work is feature of Buffalo winter construction; 8-story reinforced-concrete and brick building. il plan Eng N 93:368-71 S 4 '24
Organization and management in the flour milling industry. E. L. Pearson. 243p Pitman '25
Practical milling. B: W: Dedrick. 576p National miller, Chicago '24
Story of a grain of wheat. W: C. Edgar. 232p Appleton '25

Accounting

Operating control through scientific analysis. W. H. Justin. J Account 38:183-95 S '24; Same. Paper Tr J 79:51-4 S 18 '24; Same. Paper 34:991-5; Discussion. 1008-9 S 18 '24

Employees

Flour production in China. Monthly Labor R 20:1060-1 My '25

Equipment

Monarch equipment chosen for co-operative flour mill. il Dun's Int R 44:61-2 N '24

Heating and ventilation

Using by-products in flour mill heating and humidifying. E. K. Campbell. il diags Am Soc Heat & V E J 30:349-58 My '24; Abstracts. Heat & Ven 21:59-61 Jl '24; Power 60:308 Ag 19 '24

History

Short history of flour milling. H: A. Bellows. 47p Miller pub. co., Minneapolis, Minn. '24

Power

Experience with Diesel engines in a Kansas flour mill. C: Dalrymple. il Power 62:793-4 N 24 '25; Abstract. Mech Eng 47:743-4 S '25

FLOUR trade
Canada a formidable competitor of United States flour export trade; gets best part of Europe's added purchases. Comm & Fin Chr 119:1790-1 O 18 '24
International trade in wheat and wheat flour. J. A. Le Clerc. map U S Bur For & Dom Com Trade Promotion Ser 10:1-290 '25
International trade in wheat flour. Comm M 5:21-30 Ja '24
Markets for flour in Central America. U S Bur For & Dom Com Trade Information Bul 279:1-16 '24
United States exports of wheat flour. Comm M 6:22-4 N '24

Advertising

How Pillsbury sells the turnover idea to the grocer. G. A. Nichols. Ptr Ink 125:17-20 D 20 '23
Symphonies—and flour! Ptg Art 42:444-5 Ja '24
Washburn-Crosby gets new market while old one shrinks. Ptr Ink 127:159-60 My 1 '24

FLOW meters
Additional data regarding the reliability of fluid meters in refrigerating tests. L. S. Morse. diags Refrig Eng 10:385-97; Discussion. 398-404 My '24
Bassler liquid meter. il diags Engineering 118:497-8 O 3 '24
Britannia flow meters. il diags Engineer 136: 540 N 16 '23
Convenient friction flow-meter for small rates of flow of gas. J: H. Yoe. diag Soc Chem Ind J 44:432 Ag 14 '25
Device for checking integrators on the old style G. E. flow meters. C. N. Hutchinson. diag Power 61:423-4 Mr 17 '25
District steam heating proves economical in St Louis. H. A. Woodworth. il diags Power Pl Eng 28:1107-10 N 1 '24
Electrically operated flow meter. R. E. Woolley. il diags Gen Elec R 27:182-7 Mr '24
Electrically operated G.E. flow meter. diags Power 59:503 Mr 25 '24; Power Pl Eng 28: 456 Ap 15 '24
Flow meter needed for refrigerating plant. Power 60:373, 545-6, 700-1, 775-6 S 2, 30, O 28, N 11 '24
Flow meters in the accounting of process steam C. Tyler. il diag Chem & Met Eng 32:755-6 S '25
Flow meters increase boiler efficiency. P. Werner. il Power Pl Eng 29:150-1 Ja 15 '25
Flow-meters save us 41,000 gallons of fuel oil annually. Factory 34:806+ My '25
Fuel flowmeter works on weighing principle. il diag Automotive Ind 52:583 Mr 26 '25
Gauging of rivers and tidal currents. M. A. Hogan. il diags Engineering 119:598-600, 631-3 My 15-22 '25
Integrating flow meter. il Management & Adm 8:205 Ag '24
Liquids or gases in pipes; an instrument for recording the rate of flow. F. C. Sutton. il Chem Age (Lond) 10:646 Je 21 '24
Locating leaks in the casings of old artesian wells. W. M. Angas. il Eng N 93:270 Ag 14 '24
Mallen flow meter. il Power 61:392 Mr 10 '25

FLOW meters—*Continued*
Meter attachment for fixed quantities of liquids; Empire exhibition. il diag Engineering 117:749 Je 6 '24
Rise of steam flow meters in central station heating service. H: Allen. il diags Heat & Ven 21:48-52 Ag '24
Some sulphite mill calculations. W. B. Van-Arsdel. Paper Tr J 80:55-7 My 7 '25
Stopcock orifice flowmeter. J. Sharp. diag Ind & Eng Chem 17:646-7 Je '25
Tests on flowmeter show great accuracy. J. F. Cunningham. Chem & Met Eng 30:795 My 19 '24
Tools of the chemical engineer; fluid measuring devices. D. H. Killeffer. il Ind & Eng Chem 16:785-8 Ag '24
Types of flow meters. diags Power 61:154 Ja 27 '25

See also Gas meters; Pitometer; Steam meters; Water meters

FLOW of fluids

See Air flow; Fluids; Gas flow; Hydraulics; Steam flow; Water flow

FLOWERS
Flowers that dislike music. Sci Am 130:246 Ap '24
Freezing temperatures of some fruits, vegetables and cut flowers. R. C. Wright and G: F. Taylor. Refrig Eng 11:268-70 Ja '25

FLOWERS, Fossil
Fossil flower from the miocene of Trinidad. E: W. Berry. il Am J Sci 5th ser 7:103-8 F '24

FLUE dust
Cindervane fan flue dust removal at Stepney power house. il diag Engineer 137:696 Je 20 '24
Fundamentals of electrostatic precipitation; application at the Trenton Channel station. il diags Power Pl Eng 28:755-7 Jl 15 '24
Pneumatic flue dust conveyors. K. Wagner. diags plans Cassier's Ind Management 11: 330-2 Je '24
Saugluft-flugaschenförderung. diags Elektrotech Zeit 45:370-1 Ap 17 '24

See also Blast furnace gas; Blast furnaces; Smelting

FLUE gas
Dewpoint temperature of gases from combustion. J. N. Waite. Elec R (Lond) 94:954-6, 994-6 Je 13-20 '24
Economizer corrosion and dew point of flue gases. B. M. Thornton. Power 61:460 Mr 24 '25
Excess flue-gas temperature—its effect on boiler efficiency; abstract. J. R. Darnell. Mech Eng 47:671-2 Ag '25
Heat loss in flue gas measured by using economizer as calorimeter. B. M. Thornton. Power Pl Eng 29:353 Mr 15 '25; Discussion. 29:500-1, 555 My 1-15 '25
Heat loss in flue gases. Foundry 52:58a Ja 15 '24
How a utility keeps the cinders out of the public's eye. A. Williams. N E L A Bul 12:520+ Ag '25
Die möglichkeit der verwendung von gichtgas im Siemens-Martin-ofen. W. Tafel and F. Anke. Stahl & Eisen 45:1773-7 O 22 '25
Preventing dust explosions by the use of flue gas. A. C. Gerlach. il diag Nat Safety N 12:13-14 Jl '25
Pyro-porus flue gas filter for CO_2 equipment. il Ry Mech Eng 98:58 Ja '24
Reburning flue gases. W. S. Findlay. Power 59:1037-8 Je 24 '24
Reburning flue gases. C. O. Sandstrom. Power 60:223 Ag 5 '24
Why high CO_2 lowers flue temperature. diags Power 62:343-4 S 1 '25

See also Blast furnace gas; Carbon dioxide recorders; Flue dust; Fumes, Acid

Analysis

Calculation of heat lost in flue gas. N. T. Bourke. chart Power Pl Eng 29:230-1 F 15 '25
Checking flue-gas analysis. H. Edwards. Power 60:689-90 O 28 '24
Duplex-mono gas analyser. il diag Elec R (Lond) 93:648 N 2 '23
Effect of excess air on flue temperatures and on efficiency. A. K. Bak. diag Power 59:634-6 Ap 22 '24
Kingsbury recording smoke detector. diags Power 62:347 S 1 '25; Power Pl Eng 29:978 S 15 '25
Power plant management. R. June. il diags Blast F & Steel Pl 11:610-13, 652+ N-D '23

Sampling

Handling twelve boilers with one Orsat. M. S. Gerend. diags Power 60:657-8 O 21 '24; Discussion. C. N. Hutchinson. 60:910 D 2 '24
Overcoming flue-gas sampling trouble. W. G. Shurgar. diag Elec W 86:418 Ag 29 '25

FLUES
Les accidents aux tubes-cheminées de chaudières verticales. Génie Civil 87:22 Jl 4 '25
Chart for the design of gas passages. M. E. Yeager. Power Pl Eng 27:1226-8 D 15 '23
Flues to gas-appliances. A. Forshaw. diags Gas J (Lond) sup 4:42-7 F 25 '25
Flues to gas appliances. T: Newton. Gas J (Lond) sup 4:56-7 Mr 25 '25
New data for figuring chimney heights and flue sizes. Heat & Ven 22:78-9 Mr '25; Same abr. Sanitary & Heat Eng 103:145, 207 Mr 6-20 '25
Use of the baffle in flue pipes. F. W. Dye. diags Gas J (Lond) 169:528-9 Mr 4 '25

See also Chimneys

FLUIDITY
Fluidity anomalies in refined mineral oils. E. C. Bingham, W: L. Hyden and G. R. Hood. Ind & Eng Chem 16:25-6 Ja '24; Discussion. 16:534-5 My '24
Rhe as the absolute unit of fluidity. E. C. Bingham. Ind & Eng Chem 17:47 Ja '25
Why rigidity and fluidity are merely relative terms. H. P. Gillette. Eng & Contr (Ry) 61: 812-13 Ap 16 '24

See also Viscosity

FLUIDS
Electrical method for tracing stream lines in the two-dimensional motion of a perfect fluid. E. F. Relf. il diags Philos Mag 6th ser 48:535-9 S '24
Fluid circulation round cylindrical obstacles. D. M. Wrinch. Philos Mag 6th ser 49:240-50 Ja '25
Mechanical properties of fluids. C: V. Drysdale and others. 378p Van Nostrand '23
New theory of fluid flow. A. B. Cox. J Fr Inst 198:769-93 [bibliog. p. 792-3] D '24
Proposed empirical equation of state for fluids. S. Lees. Philos Mag 6th ser 47:431-46 F '24
Stability of laminar shearing motion in a viscous incompressible fluid. R. V. Southwell. Philos Mag 6th ser 48:540-53 S '24

See also Air flow; Flow meters; Gas flow; Gases; Hydraulic engineering; Hydraulics; Hydrodynamics; Liquids; Osmosis; Solution (chemistry); Steam flow; Viscosity

FLUMES
Irrigation flume of V-section supplies Oregon project. il diags Eng N 93:9-10 Jl 3 '24
Operation and maintenance of irrigation systems. R. S. Stockton. il Eng & Contr (W W) 61:586-7 Mr 12 '24
Semi-circular metal flume. diags Engineer 140:326-7 S 25 '25
Semicircular wood flume with radius of 6 ft. il diags Eng N 92:612-13 Ap 10 '24
Use of sheet steel in preventing erosion. il Eng & Contr (G C) 64:411-14 Ag 19 '25

See also Irrigation canals; Venturi flumes

FLUMES, Concrete
Building a concrete flume in rough country. H. K. Fox. il diag Eng N 91:20-1 Jl 5 '23; Same abr. Sci Am 130:243 Ap '24

FLUMES, Concrete—*Continued*
Concrete flumes solve tunnel drainage problem. M. F. Clements. il diags Ry Age 77:189-91 Ag 2 '24; Same. Eng & Contr (Ry) 62: 407-10 Ag 20 '24

FLUORENE compounds
Pyridofluorene and some of its derivatives. W: H. Mills, W: H. Palmer and M. G. Tomkinson. Chem Soc J 125:2365-70 N '24

FLUORENONE
Studies in the diphenic acid and in the fluorenone series. H. W. Underwood, jr. and E. L. Kochmann. Am Chem Soc J 45: 3071-7 D '23

FLUORESCEIN
Influence of constitutional variation upon the absorption and stability to hydrogen ions of certain halogenated derivatives of fluorescein. W. C. Holmes. Am Chem Soc J 46: 2770-5 D '24
Ring-chain tautomerism; the fluoresceins and rhodamines. S. Dutt and J. F. Thorpe. Chem Soc J 125:2524-38 D '24
2,4-dihydroxybenzoyl-ortho-benzoic acid and some of its derivatives. W. R. Orndorff and E. Kline. Am Chem Soc J 46:2276-91 O '24

FLUORESCENCE
Die analysen-quarzlampe. L. J. Busse. il Elektrotech Zeit 46:1185-7 Ag 6 '25
Condensations of aldehydes with resorcinol and some other aromatic hydroxy compounds. R. N. Sen and N. N. Sinha. Am Chem Soc J 45:2984-96 D '23
Determination of small amounts of zinc in materials of organic nature; a microchemical method based on the fluorescence of zinc salts with urobilin. R. E. Lutz. J Ind Hygiene 7:273-90 [bibliog. p. 289-90] Je '25
Determination of the time between excitation and emission for certain fluorescent solids. P. F. Gottling. diag Phys R 22:566-73 D '23
Duration of fluorescence of mercury vapor. R. N. Ghosh. Phys R 26:376-9 S '25
Fluorescence of æsculin solutions. M. B. Kearney. Philos Mag 6th ser 47:648-56, pl 5 Ap '24
Optical properties of fluorescent rhodamin. B. A. Poritsky. J Fr Inst 197:527-39 Ap '24
Production of fluorescence and phosphorescence by radiations from the carbon arc lamp. W. S. Andrews. Gen Elec R 28:659-61 S '25
Quantitative determination of the fluorescent powers (the spectro-fluorescometry) of cellulose and its derivatives. S. J. Lewis. il Soc Dyers & Col J 40:29-40, 111-14 F, Ap '24
Studies in fluorescence spectra; aromatic amine vapours. T: H: Nunan and J. K. Marsh. Chem Soc J 125:2123-8 O '24
Studies in fluorescence spectra; phenol and phenolic ether vapours. J. K. Marsh. Chem Soc J 125:418-23 F '24
Studies in fluorescence spectra; some benzenoid hydrocarbon vapours. J. K. Marsh. diag Chem Soc J 123:3315-24 D '23
Theoretical interpretation of the polarization experiment of Wood and Ellett. J: A. Eldridge. Phys R 24:234-42 S '24
See also Luminescence

FLUORIDES
Crystal structures of ammonium fluoferrate, fluo-aluminate and oxyfluomolybdate. L. Pauling. Am Chem Soc J 46:2738-51 D '24
Method for the preparation of the double fluorides of the metals of the platinum group and the absorption spectra of the halogeno platinates. H. I. Schlesinger and M. W. Tapley. Am Chem Soc J 46:276-87 F '24
See also Fluorspar

FLUORINE
Attempt to measure the potential of the fluorine electrode. J. Simons and J. H. Hildebrand. Am Chem Soc J 46:2223-5 O '24
Exact notions of fluorine enamels. C: Musiol. Am Cer Soc J 7:105-15 F '24; Discussion. 7:115-17, (Bul) 224-8 F, Je '24
Fine structure of the nitrogen, oxygen, and fluorine lines in the extreme ultra-violet. I. S. Bowen and R. A. Millikan. Philos Mag 6th ser 48:259-64, pl 9 Ag '24
Fluorine awaits uses. F. C. Mathers. Chem & Met Eng 31:852 D 1 '24
Fluorine determination in nickel-depositing solutions. L. D. Hammond. Ind & Eng Chem 16:938-9 S '24
Fluorine in the deoxidizing slag, and its influence on refractories in basic electric furnace practice. F. T. Sisco. Am Electrochem Soc Trans v 46 (preprint 19):257-72 O '24; Same cond. Iron Tr R 75:1305-7 N 13 '24; Abstract. Foundry 52:962 D 15 '24
Preparation of fluorine. J. Simons. diag Am Chem Soc J 46:2175-9 O '24
Volumetric determination of fluorine. W. W. Scott. Ind & Eng Chem 16:703-7 Jl '24

FLUORINE compounds
Ortho-benzoyl-benzoic acids containing fluorine, iodine and sulfur. F: C. Hahn and E. E. Reid. Am Chem Soc J 46:1645-53 Jl '24

FLUORITE. See Fluorspar

FLUORSPAR
Aluminum company buys important fluorspar mines in Illinois and Kentucky. A. B. Parsons. il Eng & Min J 118:866-7 N 29 '24; Discussion. A. H. Reed. 118:1023-4 D 27 '24
Dissatisfaction with fluorspar prices. Eng & Min J 119:1034 Je 27 '25
Fluorite in Bolivian tin mines. W. Lindgren. Econ Geol 19:765-6 D '24
Fluorspar deposits of Kentucky. L: W. Currier. 189p Kentucky. Geol. survey, Frankfort '23
Fluor spar has part in cupola melting. B: Osann. Foundry 51:980 D 15 '23
Fluorspar: its occurrence and production. A. M. Mitchell. il Blast F & Steel Pl 12:54-7 Ja '24
Fluorspar output in 1924. Oil Paint & Drug Rep 107:67 My 25 '25; Iron Age 115:1611 My 28 '25
Fluorspar production decreased in 1923. Eng & Min J 117:843 My 24 '24; Abstracts. Iron Age 113:1144 Ap 17 '24; Iron Tr R 74:1628 Je 19 '24
Kentucky produces 38 per cent of country's fluorspar. Manuf Rec 87:72 My 14 '25
Marketing of fluorspar. A. H. Reed. il Eng & Min J 117:489-92 Mr 22 '24
Refining metals electrically. L. J. Barton. Foundry 52:861-4 N 1 '24
Spectroscopic study of the cathodo-luminescence of fluorite. F. G. Wick. Phys R 24: 272-82 S '24
Study of crystal structure and its applications. W. P. Davey. Gen Elec R 28:343-6 My '25
Use less fluorspar to ton of steel. Iron Tr R 76:1323 My 21 '25

FLUOSILICIC acid
Fluosilicic acid; method of titrating and properties. C. A. Jacobson. J Phys Chem 28: 506-9 My '24

FLUSH valves. See Water closets

FLUSHOMETER
Experience with flushometer water closets. Am Water Works Assn J 11:245-50; 12:312-15 Ja, N '24
Volume of water required with flushometers. il Sanitary & Heat Eng 101:197-9+, 234-7 Ap 4-18 '24

FLUX
Fluxes and slags in metal melting; discussion. Engineer 137:478 My 2 '24; Engineering 117: 582-3 My 2 '24
Round table discussion on fluxes and deoxidizers. Metal Ind 22:97 Mr '24
Use sodium flux for iron. il Foundry 52:982-4 D 15 '24
See also Solder and soldering

FLYING boats
Aeromarine all-metal hull flying boat. P. G. Zimmerman. il Metal Ind 21:471-3 D '23; Abstract. Sci Am 130:135 F '24
Aeromarine model EO sport flying boat. B. V. Korvin-Kroukovsky. il Aviation 17:858-60 Ag 11 '24

FLYING boats—*Continued*
All-metal flying boat built by the Rohrbach metal aeroplan company. il Engineer 139: 350, 354 Mr 27 '25
Boeing PB1. il Aviation 19:357 S 21 '25
Boeing PB-1 seaplane with two 800 hp. engines. il Automotive Ind 53:376 S 3 '25
British marine aviation. il Engineer 140:399-400, 406 O 16 '25
British Schneider cup entry. il Aviation 19: 358-9 S 21 '25
Canadian government requirements for aircraft. il Aviation 18:49-50 Ja 12 '25
Design of marine aircraft in relation to seaworthiness. D. F. Lucking. Roy Aeronautical Soc J 27:535-51; Bibliography. 551-2 N '23
F.B.A. 19 amphibian flying boat. diags Aviation 17:1461 D 29 '24
First light flying boat. E. T. Allen. diags Aviation 16:593 Je 2 '24
More details of the Loening amphibian. Aviation 18:491 My 4 '25
Operation of flying boats in the Mediterranean. C. R. Samson. Roy Aeronautical Soc J 29:114-26; Discussion. 127-31 Mr '25
Recent progress in flying boat design. O. E. Simmonds. il Engineering 120:429-31 O 2 '25; Same. Roy Aeronautical Soc J 29:634-44 D '25; Abstract. Engineer 140:287 S 18 '25; Discussion. Engineering 120:346 S 18 '25; Roy Aeronautical Soc J 29:645-7 D '25
Rohrbach Ro II twin-engined flying boat. il Aviation 17:1084-5 O 6 '24
Savoia torpedo flying boat. diags Aviation 18: 131 F 2 '25
Shock absorbers for flying boats. il diags Aviation 19:386-7 S 28 '25

See also Seaplanes; *also* Supermarine aviation works, limited

Manufacture

Making a metal wing-float. C. H. Franklin. il Am Mach 60:688 My 8 '24

FLYING machines
Cierva flying machine; the autogiro. il Engineering 120:521 O 23 '25; Engineer 140: 430 O 23 '25
Development of the Cierva flying machine. D. J. de la Cierva. Engineering 120:549-50; Discussion. J. L. Hodgson. 553 O 30 '25

See also Aeronautics; Airplanes; Cycleplane; Flying boats; Helicopters; Langley flying machine

FLYWHEEL explosions
Causes of flywheel explosions revealed. E: Ingham. diags Power 61:58-9 Ja 13 '25
Flywheel explosion at Hudson, Mich. Power 59:771 My 13 '24
Fly-wheel explosion at Lumberton, Miss. il Locomotive 35:194-6 Jl '25
Fly-wheel explosions during 1923; tabulation. Locomotive 35:57-8 Ap '24
Flywheel explosions during 1924; tabulation. Locomotive 35:184-5 Ap '25
Incorrect assembly of governor causes flywheel explosion. F. C. Blomberg. diag Power 61:539-40 Ap 7 '25
Path of fragment of exploding flywheel. diags Power 61:116 Ja 20 '25
Why flywheels burst. diags Power 61:351 Mr 3 '25

FLYWHEELS
Finding the flywheel weight required by an internal-combustion engine. P. H. Schweitzer. chart Power 59:673 Ap 29 '24
Flywheel problem in compressors direct connected to synchronous motors. A. R. Stevenson, jr. il Refrig Eng 11:123-40 O '24; Same (without appendix). Gen Elec R 28:580-5, 731-8 Ag, O '25; Discussion. Refrig Eng 11: 140-2 O '24
Flywheel requirements for unbalanced air and ammonia compressors. C. W. Cutler. il Refrig Eng 12:75-84; Discussion. 84-7 S '25
No. 0 flywheel-housing added to S.A.E. standard. diags Soc Auto Eng J 16:39-40 Ja '25
Prime mover-guards. Power Pl Eng 29:376 Ap 1 '25
Safe rim speed for split flywheel. Power Pl Eng 28:1271 D 15 '24
Stresses in a uniformly rotating flywheel. A. J. S. Pippard. Mech Eng 46:286-7 My '24
32-ton flywheel for Ilgner set. il Engineering 118:842 D 19 '24

Manufacture

Maxwell methods in flywheel work. F. H. Colvin. il diag Am Mach 60:729-30 My 15 '24
Molding cast-iron wheels. J. H. Smit. diags Mach 31:985-6 Ag '25

FOAM
Testing of foam for use on fires. C. K. Swift. diag Ind & Eng Chem 16:580-2 Je '24

FOAMING. See Boilers—Foaming

FOAMITE
Foamite and oil fires. il Chem Age (Lond) 12:295 Mr 28 '25

FOG
Analyzing a "pea souper"; how the meteorological office studies London fog. il Sci Am 132:377 Je '25
Dispelling fog. il Sci Am 132:55 Ja '25
Effect of fog upon radio signals. A. A. Kubiac. Radio N 6:187+ Ag '24
London fogs. Sci Am 130:94 F '24

FOG signals
Fog alarms operated by a human hair. Sci Am 130:257 Ap '24
Lighthouse service develops hygroscopic fog signal. il diag Eng N 92:974 Je 5 '24

See also Buoys; Radio beacons; Radio fog signals

FOKKER, Anthony H. G.
Fokker-Kansas City company; Fokker plans to become resident of U.S.A. and build here. por Aviation 19:239-41 Ag 31 '25

FOLDERS
Folders;—used and misused step-children of direct advertising. C. B. Larrabee. Ptr Ink M 11:30-2+ Jl '25

FOLDING machines
How to estimate printing. M. Heir. il Inland Ptr 76:61-3 O '25
Niagara power folder and brake. il Mach 30: 725-6 My '24; Iron Age 113:1291 My 1 '24

FOLDS (geology)
Pitch of rock folds. L. L. Fermor. Econ Geol 19:559-62 S '24
Replacement and folding. P. Geijer. Econ Geol 19:281-5 Ap '24
Shallow folding and faulting around the Bearpaw mountains. F. Reeves. diags map Am J Sci 5th ser 10:187-200 S '25
Theory of crustal deformation; abstract. E. C. Abendanon. diags Am J Sci 5th ser 8:85-90 Jl '24

FOLLOW up systems
"— But the patient died." M. Heir. Inland Ptr 75:725-6 Ag '25
Buying the gas to make it go. F. W. Bond. Ptd Salesmanship 46:145-6 O '25
Follow-up system. F. D. Sikkenga. Credit M 27:34-5 Ag '25
How long does it pay to follow up inquiries? Van Kannel revolving door co. R. L. Blanchard. Ptr Ink M 10:50+ My '25
Is follow-up all bosh? W. Brindley. Ptr Ink 129:41-2+ D 11 '24
Persistent follow-up that cuts cost of selling. C: B. Mills. Ptr Ink 127:49-50+ Ap 24 '24
Spotty distribution—how inquiries can be handled to overcome it. M. Hastings, jr. Ptr Ink M 8:41-2+ My '24
Thirty-eight percent sales from advertising inquiries; demonstration outfit shipped to prospects. L. J. Steffen. Sales Management 8:951-2 Je 27 '25
Turning consumer inquiries into sales. H. E. Pettingill. Ptr Ink 131:149-50+ Je 4 '25
Value of a good follow-up. H. N. Casson. Ptd Salesmanship 46:27-9 S '25
Way to meet the price argument instantly; the Harry Berger shirt company uses a return telegram. Ptr Ink 127:17-18 Ap 17 '24

See also Advertising; Advertising, Mail; Commercial correspondence; Sales letters

FONDA, Johnstown & Gloversville railroad
Annual report, 53d, 1923. Comm & Fin Chr 118:2200-1 My 3 '24
Annual report, 54th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2263, 2543 My 2, 16 '25
Railroad attempts to stop Sacandaga reservoir construction. Eng N 95:155 Jl 23 '25

FONTAINEBLEAU
Details of a Louis XVI salon at Fontainebleau. il plans Arch Forum 42:121-6 F '25
Forum studies of European precedents; the Palace of Fontainebleau. il Arch Forum 42: 96a-h F '25
Imperial theater at Fontainebleau. S: E. Gideon. il diags Arch Forum 43:249-54 O '25

FONTAINEBLEAU school of fine arts
First session of the Fontainebleau school of fine arts. A. L. Kocher. Arch Rec 55:204-5 F '24

FOOD
Food buying and our markets. D. Monroe and L. M. Stratton. 321p M. Barrows & co., Boston '25
Food products. H: C. Sherman. 2d ed., rev. 687p Macmillan '24
Food values and body needs. charts Nation's Health 6:423-5 Je '24
Foods, preparation and serving. P. L. Bailey. 486p [bibliog. p. 11] Webb pub. co., St Paul '24
Hygienic fundamentals of food handling. C: Thom and A. C. Hunter. 228p Williams & Wilkins co., Baltimore '24
Nothing to eat but food. J: H. Styles. 233p Williams pub. co., Kansas City, Mo. '23
What the other half eats; some interesting exhibits from the foreign food stores of a big American city. L. Lodian. il Sci Am 131: 166-7 S '24

See also Bakers and bakeries; Baking; Beverages; Bread; Canned food; Chocolate; Cost of living; Diet; Farm produce; Flour; Food preservatives; Food supply; Fruit; Gelatin as food; Jelly; Meat; Milk; Nutrition; Oleomargarine; Olives; Potatoes; Proteins; Rice; Sirups; Sugar; Vegetables; Vitamins; Wheat germ extract

Analysis

Food analysis. A. G. Woodman. 2d ed. 529p McGraw-Hill '24
Method for the estimation of hydrogen sulfide in proteinaceous food products. L. H. Almy. diag Am Chem Soc J 47:1381-90 My '25
Die praxis des chemikers bei untersuchung von nahrungs- und genussmitteln, gebrauchsgegenständen und handelsprodukten. F. F. B. Elsner. 9th ed., rev. 835p L. Voss, Leipzig '24

See also Butter fat

Bacteriology

Food in the house refrigerator. J. Broadhurst and M. B. Van Arsdale. diag Nation's Health 6:595-7+ S '24

Manufacture

Problems in the manufacture of food products. F. E. Rice. Sibley J 38:147-9+ Je '24

Prices

Higher cost of food in Massachusetts. R. J. McFall. Am Statis Assn J 19:362-76 S '24
Prices and caloric value of foods in Finland, December, 1924. Monthly Labor R 20:521 Mr '25
Retail prices of food in the United States. Published in monthly numbers of Monthly labor review

See also Cost of living

Testing

Oxy-calorimeter; principle and application to the determination of energy values of fuels, foods, and excretory products. F. G. Benedict and E: L. Fox. diags Ind & Eng Chem 17:912-18 S '25

FOOD adulteration
Determination of adulterants in butter fat. G: Spitzer and W. F. Epple. Ind & Eng Chem 16:828-31 Ag '24
Pioneer in pure foods and drugs; Lewis C. Beck. L. F. Kebler. Ind & Eng Chem 16: 968-70 S '24

FOOD brokers
Broker's recommendation to makers of advertised products. C: P. Whiteman. Ptr Ink 129:131-2+ N 27 '24

FOOD handling
Hygienic fundamentals of food handling. Nation's Health 7:351-2 My '25

FOOD industry and trade
Consumption, merchandising, and advertising of foods. A. E. Taylor. Harvard Business R 2:282-95 Ap '24
Economics of a food supply. W. O. Hedrick. 336p Appleton '24
Peculiarities in selling to state institutions. Ptr Ink 129:155+ N 27 '24
Why call on trust busters? wholesale grocers' fight to stop packers from handling allied food products. Ptr Ink 127:33-4+ Je 5 '24

See also Flour trade; Food brokers; Grain trade; Grocery trade; Meat industry and trade; Raisins; *also* Beech-nut packing company

Advertising

Advertising is altering the food habits of the world. Ptr Ink 125:129-30+ N 15 '23
Linking the laboratory with more sales of food and technical products. R. Dickinson. Ptr Ink 125:89-90+ D 6 '23

See also Flour trade—Advertising; Fruit trade—Advertising; Macaroni—Advertising

Statistics

Relation between value and volume of agricultural exports. H. M. Strong. U S Bur For & Dom Com Trade Information Bul 271:1-77 '24
Trend of business movements; foodstuffs. Published in monthly numbers of Survey of current business
Uncle Sam's daily market basket; its contents in dollars and cents and in more edible terms. il Sci Am 130:173 Mr '24

Canada

Refrigerated food resources of Canada. J. A. Ruddick. Refrig W 59:22 S '24

China

Chinese market for American foodstuffs. L. A. Wheeler. U S Bur For & Dom Com Trade Information Bul 277:1-24 '24

Cuba

Cuban market for American foodstuffs. L. A. Wheeler. U S Bur For & Dom Com Trade Information Bul 325:1-44 '25

United States

Domestic exports of canned and dried foods. Comm & Fin Chr 119:2477 N 29 '24 [continued monthly]
Fashions in food. E. Dakin. Comm & Fin 14: 547-8 Mr 25 '25
Food companies. Moody's Inv Serv 17:29-30 Ja 22 '25
Foodstuffs export trade of the United States. L. A. Wheeler. U S Bur For & Dom Com Trade Information Bul 355:1-29 '25

FOOD laws and legislation
Federal and state laws (compiled) relating to the manufacture and sale of foods, drugs, insecticides, etc. 883p Standard remedies pub. co., inc., Washington, D.C.; Chicago '24
Halt called on government food standardization. Ptr Ink 127:82+ Ap 24 '24
Protecting the consumer from food and drug frauds. F. B. Linton. il Nation's Health 7:667-9 O '25
Question of printed inserts in packages of food products. Ptr Ink 126:133-4 F 14 '24

FOOD laws and legislation—*Continued*
Vital information for manufacturers of packaged products; an explanation of slack-filled packages legislation. Ptr Ink 127:142+ Ap 3 '24

FOOD preservation
Physical aspects of food preservation. Engineering 117:67-9 Ja 18 '24
Preservation of food by sterilisation. C. M. Dugdale. Soc Chem Ind J 43:17-23 F 1 '24
Scientific preservation of food. T. M. Rector. 213p Wiley '25

See also Canned food; Canning and preserving; Cold storage; Heat as a disinfectant; Milk—Pasteurization; Rancidity; Salt

FOOD preservatives
Chemical preservatives in foodstuffs. A. E. Parkes. Soc Chem Ind J (Chem & Ind) 43: 509-10 My 16 '24
Preservatives and colouring matters in food; formaldehyde condemned. Chem Age (Lond) 11:166 Ag 16 '24
Preservatives and colours in foods. Soc Dyers & Col J 41:36-7 Ja '25
Rate of disappearance of sulphites in raw meat. F. H. Campbell. Soc Chem Ind J 43:297-8 S 26 '24
Report of the committee on the use of preservatives in food. A. R. Tankard. Soc Chem Ind J (Chem & Ind) 44:251-2 Mr 6 '25

See also Ethylene glycol; Salt; Sodium benzoate

FOOD supply
Cooperative production and marketing. A. E. Taylor. Monthly Labor R 19:464-5 Ag '24
Effect of scientific food consumption in increasing wealth. C. L. Alsberg. Ann Am Acad 115:57-64 S '24
Food buying and our markets. D. Monroe and L. M. Stratton. 321p M. Barrows & co., Boston '25
Progress in chemistry and the theory of population. C. L. Alsberg. Ind & Eng Chem 16:524-6 My '24

Germany

Acute German food situation—Secretary Hoover in letter to Representative Fish says food credit is only solution. Comm & Fin Chr 117:2602-3 D 15 '23
Food situation in Germany. Monthly Labor R 18:535-8 Mr '24

Great Britain

Food supplies of the British Empire. J. R. Ainsworth-Davis. (Resources of the Empire ser. v. 1, pt. 1 & 2) 144p; 104p Van Nostrand '24

New England

Food supply of New England. A. W. Gilbert, ed. 273p Macmillan '24

New York (city)

Food manufacturing industries in New York and its environs. F. M. Williams. 60p Regional plan of New York and its environs, New York '24

FOOT
Foot defects among industrial employees. Monthly Labor R 20:404 F '25
Iowa state college makes war on weak arches. il Nation's Health 7:110-12 F '25
What the shoe reveals about the foot. H. M. Wright. il Sci Am 131:242 O '24

FOOT bridges. See Bridges, Foot

FOOT-candle meter
Notable improvements in foot-candle meter. il Am Inst E E J 43:761 Ag '24

FOOTBALL
Football—a run for your money. R. C. Willoughby. il Nation's Business 13:28-30 N '25
Football as a big secondary market. Ptr Ink M 9:112+ N '24

FOOTINGS, Column. See Column footings

FORCE account system
Advantages of force account system favor its adoption. L. G. Holleran. Eng N 91:937-9; Discussion, 939-41 D 6 '23
City forces build sewage treatment works. E. R. Perry. il diags map plan Eng N 91: 832-7 N 22 '23
Contracts vs. force account on the Mississippi. Eng N 92:600-1 Ap 10 '24
Experience with force account construction at Lynchburg, Va. E: A. Beck. Munic & Co Eng 67:70-2 Ag '24
Force account and winter work on small city jobs; experience of Dayton, O.; abstracts. I. E. Houk. Eng N 93:292-3 Ag 21 '24; Pub Works 55:317-18 O '24
Get the facts on force account. Eng N 94: 1045 Je 25 '25
Maintenance force reconstruction of sand-clay roads. H. J. Friedman. il Eng N 94: 270-2 F 12 '25
Vermont finds increasing economy in road building by force account. T. W. Dix. Eng N 94:34 Ja 1 '25
Winter use of maintenance force. Pub Works 56:175 My '25

FORCE and energy
Beitrag zur theorie der ausnützung von naturkräften. R. I. Nowotny. Zeit Ver Deutsch Ing 68:101-6 F 2 '24
Energy storage. Power 61:698, 1039; 62:460, 499-500 My 5, Je 30, S 22-29 '25
Energy waste in nature and household. Sci Am 131:250 O '24
Heat and energy. D: R. Pye. 211p Oxford '23

See also Atomic forces; Dynamics; Electromotive force; Gravitation; Impact; Mechanics; Pendulum; Pressure; Strains and stresses; Surface energy

FORD, Henry
Can Ford be universally imitated? Am Mach 62:361 F 26 '25
Les idées et les méthodes industrielles d'Henry Ford. Génie Civil 86:343-4 Ap 4 '25
No one who does business with Mr Ford ever gets a chance to rest. S: Crowther. por System 48:563-7 N '25
Les principes industriels d'Henry Ford. V: Cambon. Chimie & Ind 13:151-3 Ja '25
Triumph of an unhampered mind. Munic & Co Eng 67:219 N '24
Twenty reasons why Ford reached the top. B. C. Forbes. Forbes 15:820-2+ Ap 1 '25

See also Detroit, Toledo and Ironton railroad

FORD motor company
Automatic equipment cuts painting cost. il Iron Age 114:555-7 S 4 '24
$15,000,000 salvaged by Ford plant. G: E. Hagemann. il Management & Adm 9:557-60; 10:33-6 Je-Jl '25
Five hundred thousand horsepower in Ford turbines for River Rouge plant. il diags Power 61:88-94 Ja 20 '25
Ford buys factory on Seine near Paris. Automotive Ind 52:675 Ap 9 '25
Ford company develops and uses power at High Dam in St Paul. il Eng N 94:647 Ap 16 '25
Ford co. shows 1924 gain of $100,435,416. Automotive Ind 52:634 Ap 2 '25
Ford industries. 147p Ford motor co., Detroit, Mich. '24
Ford launches used car policy. Automotive Ind 52:637+ Ap 2 '25
Ford plant enlarges power capacity. G: E. Hagemann. il Management & Adm 10:205-8, 273-6 O-N '25
Ford plants in southern cities. il Manuf Rec 87:74-5 Ap 9 '25
Ford tackles the second-hand problem. Ptr Ink 131:100-1 Ap 16 '25
Ford the first billionaire. Comm & Fin 14:594 Ap 1 '25
Ford tries new purchase plan. Automotive Ind 52:715, 760 Ap 16-23 '25
Ford year's output placed at 2,000,000. Automotive Ind 51:1101 D 25 '24
Ford's assembly conveyor at Wembley. G: F: Zimmer. il Cassier's Ind Management 12: 362-4 Jl '25

FORD motor company—*Continued*
Has Ford lost his big sales punch in the low-priced field? design and service chief factors in new era. N. G. Shidle. il Automotive Ind 53:727-9 O 29 '25
Heavy scrap tonnage in idle ships. Iron Age 115:1565-6 My 28 '25
Henry Ford says—farmer-workmen will build automobile of the future. D. Pearson. il Automotive Ind 51:389-92 Ag 28 '24
How Ford's $7,000,000 advertising campaign is working out. Ptr Ink 127:25-6 My 22 '24
How Henry Ford loads ships and operates lake to ocean and coastwise services. A. H. Jansson. il Marine R 55:73-80 Mr '25; Abstract. Iron Tr R 76:696-8 Mr 12 '25
How Henry Ford makes cement. D. F. Jennings. il plan Concrete 24:sup65-72 My '24
How radio is serving Henry Ford. H. S. Pyle. il Wireless Age 12:28-9+ Ap '25
Inside story of Ford textile experiments. D. G Woolf. Textile World 68:2773-5 N 7 '25
Jobbing foundry of Ford motor co. F. L. Prentiss. il diag Iron Age 113:1485-9 My 22 '24
Maintenance practice at the Ford plant. E. E. Remington. il Soc Auto Eng J 16:82-5+ Ja '25; Discussion. 16:527-33 My '25
Mechanical handling at River Rouge. M: W. Potts. folding pl il diags plans Ind Management 68:67-114 Ag '24
River Rouge automobile plate glass factory. J. W. Robinson. il plans Eng N 93:376-9 S 4 '24
So Ford is advertising. F. Russell. Ptr Ink 128:41-2+ Jl 17 '24
La station centrale de 500000 chevaux des usines Ford, à River Rouge (E.-U.). il diags Génie Civil 86:305-8 Mr 28 '25
Training and employment of disabled workmen in the Ford plant. Monthly Labor R 17: 1163-4 N '23
Why Ford's second five millions were easier. Ptr Ink 130:157-8+ Mr 26 '25

See also Motor buyers, inc.

Airplane department

Ford acquires Scott company. Aviation 19: 178 Ag 17 '25
Fundamental requirements for commercial aviation. W. B. Stout. Soc Auto Eng J 17: 455-8; Discussion. 422-3 N '25

Employee transportation

See Employees, Transportation of

Engineering laboratory

Ford engineering laboratory. G: E. Hagemann. il Management & Adm 9:219-22 Mr '25

FORD motor company of Canada, limited
Annual report, fiscal year ended July 31 1925. Comm & Fin Chr 121:1902 O 17 '25
Discussion of Ford motor of Canada, ltd., Bankers shares (or units). Moody's Inv Serv 17:251 Jl 30 '25
New Ford assembling plant, Toronto. il Can Eng 46:479-80 Ap 29 '24
New machine shop for Ford motor co. of Canada ltd. il Can Eng 46:223-5 F 12 '24

FORDSON engines
Adapting the Fordson to concrete work. G. Triplett. il Concrete 24:260 Je '24

FOREIGN advertising. See Advertising, Foreign

FOREIGN exchange
Bargain days in foreign money. H: Templeton. Am Bankers Assn J 16:779+ Je '24
Dawes plan and foreign exchange and investment. R. S. Tucker. Econ W n s 28:270-1 Ag 23 '24
Decline of the exchange value of the franc in relation to the actual economic situation in France. A. R. Marsh. Econ W n s 27: 75-6 Ja 19 '24
Dollar exchange. Economist 98:41-3 Ja 12 '24
Dollars into marks or francs. A. F. McCarty. Burroughs Clearing House 9:51+ O '24
Eastern exchange currency and finance. W: F. Spalding. 4th ed. 468p Pitman '24
Education in foreign exchange. F. Plachy, jr. il Burroughs Clearing House 10:25-6+ N '25
Exchange and the flight of capital. S. Bell. Comm & Fin 13:221 Ja 23 '24
Factors that will help the exchange situation. F. I. Kent. 31p Bankers trust co., New York '22
Foreign banking business in America. H. G. P. Deans. Bankers M 110:67-8+ Ja '25
Foreign exchange and international banking. G. G. Munn. Bankers M 109:279+, 455+ Ag-S '24
Foreign exchange in Latin America; survey of conditions since 1914. C: A. McQueen. U S Bur For & Dom Com Trade Information Bul 316:1-55 '25
Foreign exchange, 1921-1924. Survey of Cur Business 30:196-7 F '24 [continued quarterly]
Foreign exchange rates. Published in monthly numbers of Federal reserve bulletin
Foreign exchanges. Bradstreet's 53:22 Ja 10 '25
Foreign exchanges. A. W: Flux. 193p P. S. King & son, ltd., London '24
Foreign exchanges in 1923. Economist 98:86-7 Ja 19 '24
Foreign exchanges, 1923. Roy Statis Soc J 87: 163 Ja '24
Foreign exchanges, 1924. Economist 100:132-4 Ja 24 '25
Foreign trade and the exchanges. Nat City Bank p 39-41 Mr '25
General survey of 1923 in the financial district. Annalist 23:58-9+ Ja 7 '24
General survey of 1924 in the financial district. Annalist 25:56-8 Ja 5 '25
Importance of foreign currency and exchange investigation of Senate commission to agricultural industry and foreign trade. Comm & Fin Chr 119:1353-4 S 20 '24
Interesting discussion of foreign exchanges and the development of the Orient. M. Frewen. Manuf Rec 87:87-90 Mr 19 '25
International trade finance. G: W. Edwards. 495p Holt '24
Modern foreign exchange. H. C. Walter. 194p Robert M. McBride & co., New York '24
Money and the exchanges. Nat City Bank p 126-7 Ag '25
New York exchange: a reply to Professor Cassel. N. Crump. Roy Statis Soc J 88:428-32 My '25
Rates of exchange on continental and other centres. Published in monthly Bank and quotation section of Commercial and financial chronicle and weekly numbers of Annalist
Sir Thomas Gresham and the foreign exchanges. H. Buckley. Econ J 34:589-601 D '24
Universal unit of account to aid world trade. E: A. Bradford. Annalist 25:581+ Ap 27 '25
Valuation theory of exchange. W. Keilhau. Econ J 35:221-32 Je '25
Work of the Senate commission of gold and silver inquiry in relation to American agriculture and foreign trade. T. L. Oddie. Econ W n s 28:413-15 S 20 '24

See also Balance of trade; Letters of credit

Accounting

Foreign exchange accounting. A. H. Whitman. Harvard Business R 2:465-72 Jl '24

FOREIGN investments. See Investments, Foreign

FOREIGN language information service
A much needed interpreter. M. Withington. Special Lib 14:129 O '23

FOREIGN loans. See Loans, Foreign

FOREIGN students in the United States
Ambassadors of international trade. C: D. Hurrey. il Nation's Business 13:66 F '25

FOREIGN trade convention, National. See National foreign trade convention

FOREMEN

Being a successful foreman. E. Andrews. Am Mach 63:356 Ag 27 '25

Foreman and his responsibility. Ry Mech Eng 99:360-2, 496-8, 543-4, 610-11, 681-2 Je, Ag-N '25; Discussion. 99:492-6, 554-6, 608-9, 679-81, 746-7 Ag-D '25

Foreman who gets ahead—and why. B. I. Budd. Safety Eng 50:69-71 Ag '25

Foremen and industrial service. H. Diemer and others, eds. 75p La Salle extension univ., Chicago '22

How foremen are brought in touch with cost and expense records. Ind Management 68: 211-13 O '24

How management can broaden the field of pivot men. S. Seiders. Forbes 15:698+ Mr 1 '25

Human side of the foreman's job. J. Gullage; C: H. Nutter; C. L. Mitchell. Ry Age 76: 515-16 Mr 1 '24

Making a bonus system pay dividends. A. W. Rowley. Ind Management 68:357-61 D '24

Methods of selecting and training supervisors. G. P. Hodges. Ry Mech Eng 99:301-2 My '25

Methods of supplying cost information to foremen. H. Diemer. Paper Tr J 79:61-3 Jl 3 '24

Modern foreman. R. Grimshaw. 297p Gregg '24

Practical foremanship. G. L. Gardiner. 191p McGraw-Hill '25

Qualities of a successful foreman. R. E. May. Ry Mech Eng 98:274-5 My '24

Safety department and the foreman. B. Cater. Nat Safety N 10:40 S '24

Should foremen supervise jobs, rather than processes? J. V. Carlson. il Factory 35:373-4 S '25

Tool foreman's responsibilities. G. T. Martin. Ry Mech Eng 99:639-40 O '25

What car foremen owe their industry. F: Weitzel. Ry R 73:864-5 D 15 '23

What do executives demand most in their foremen? H. Diemer. Factory 32:819 Je '24

What the foreman should know about the cost of production. T: B. Fordham. Am Management R 13:8 D '24

Where do you get foremen? Am Mach 60: 978; 62:316 Je 26 '24, F 19 '25

Winning the foreman's help. H. Diemer. Am Mach 63:775-7 N 12 '25

See also Mine foremen

Rating

Efficiency report for rating foremen. K. MacGrath. Management & Adm 9:371-2 Ap '25

Training

Educating the foreman. C. F. Smith. Brick & Clay Rec 65:34-5 Jl 8 '24

Foremanship training—management's next big job. G. L. Gardiner. Am Management R 14:305-6 O '25

Getting trained leadership for the factory. J. K. Novins. Ind Management 69:345-8 Je '25

Helping the mechanical department foremen. W. O. Foreman. Ry Age 78:1440-1 Je 13 '25

Making foremen in the car department. C. J. Nelson. Ry Mech Eng 98:223-4 Ap '24

Paving the way for a trained leadership. J. K. Novins. Ind Management 69:302-5 My '25

Products and by-products of foremen's conferences. F. T. Jones. Am Mach 63:524j-k S 24 '25; Same cond. Automotive Ind 53: 533-4 S 24 '25

Some psychological aspects of foremanship training. F. Cushman. Ind Management 67: 174-6 Mr '24

Trained leadership for the factory. J. K. Novins. Am Mach 62:495-7 Mr 26 '25

Training, developing and promoting foremen. L: Ruthenburg. Am Mach 62:737-40 My 7 '25

Training foremen in leadership. il Ry Mech Eng 99:364-9 Je '25

Training of foremen discussed before convention of National metal trades association. Iron Age 115:1268-70 Ap 30 '25; Iron Tr R 76:1158-9 Ap 30 '25

Training of section foremen; committee report presented to Roadmasters and maintenance of way association. Eng & Contr (Ry) 60:1291-2 D 19 '23

Training the foremen of a manufacturing organization. L: Ruthenburg. Soc Auto Eng J 17:350-3 O '25; Same cond. Automotive Ind 53:529-31 S 24 '25; Same cond. Mach 32:97-8 O '25; Abstract. Am Mach 63: 524i-j S 24 '25; Discussion. Soc Auto Eng J 18:54-7 Ja '26; Automotive Ind 53:745 O 29 '25

Wholesaling safety through the foremen's school. H. J. Bell. Nat Safety N 11:35 Ap '25

FOREMEN'S clubs, Ohio federation of. See Ohio federation of foremen's clubs

FOREST conservation

Chairman R. S. Kellogg of National forestry program committee sums up situation and suggests scope of plan. Paper 33:15-16 D 6 '23

Efficient forest utilization—a major factor in an effective national forest policy. C. P. Winslow. Paper Tr J 78:30+ Mr 13 '24

Meaning of American forest week. Am Ind 25:47 Ap '25

National conference on utilization of forest products, Washington, D.C., Nov. 19-20. Ry R 75:843-5 N 22 '24; Ry Age 77:951-4, 987-8 N 22-29 '24; Eng N 93:886 N 27 '24

Problem of pulpwood farming. Paper 34:996-8 S 18 '24

Regulation of forests. E. Wilson. Paper 35: 183-4 N 20 '24

Step toward conserving our paper supply. Ptr Ink 125:169-70+ D 6 '23

Superintendent's part in forest conservation. C. L. Cecil. Paper 34:247 My 29 '24

Wood-waste prevention. maps Mech Eng 46: 929-30 D '24

See also Forest fires

FOREST fire patrol, Aerial

Aerial fire patrol on the national forests. P. G. Redington. Aviation 19:248-9 Ag 31 '25

Pope field fires. Aviation 18:496-7 My 4 '25

FOREST fires

Analysis of heaviest forest fire losses in ten years in California. Eng N 94:232 F 5 '25

Destructive fire in western Oregon. A. M. Muller. Paper 35:414-15 D 25 '24

Determining the fire hazards in a forest by the evaporimeter. il Sci Am 130:329 My '24

Fighting forest fires with radio and plane. il Sci Am 130:399 Je '24

Fire demon in our forest. T. M. Knappen. il Sci Am 133:30-2 Jl '25

Foresters point way out of timber famine threat. Ptr Ink 130:124 Ja 29 '25

Great red-tongued taxgatherer—forest fire. H. H. Wefel, jr. Manuf Rec 88:101-3 S 3 '25

Keeping forest fires at bay. Am Ind 24:30 Mr '24

Predicting forest fires. Sci Am 132:121 F '25

Roads for fighting forest fires. W. A. Gillette. Eng & Contr (R & S) 62:1039-40 N 5 '24

Stopping forest fires. Safety Eng 48:109 S '24

Tame copy won't tame forest fires. W. B. Greeley. Ptr Ink 129:3-4+ D 4 '24

See also Forest fire patrol, Aerial

FOREST mensuration

Forest mensuration. H. H. Chapman. 2d ed. 557p Wiley '24

FOREST products

Forest products in the chemical industries. L. F. Hawley. Am Inst Chem Eng Trans v 15 pt 2:169-74; Discussion. 174-6 '23

Mutual service on forest products. A. F. Crosby. Elec W 84:549-50 S 13 '24

FOREST products—*Continued*
You are setting forest fires in your own back yard. A. Bradbury. Ptr Ink M 9:33-4+ D '24

See also Gums and resins; Lumber; Lumber trade; Pine; Rubber; Timber; Turpentine; Wood; Wood pulp; Wood waste; *also* National conference on utilization of forest products

FOREST products laboratory. See United States —Forest products laboratory

FOREST research institute, Dehra Dun, India
Some results of research work in Indian forestry. Chem Age (Lond) 11:368-9 O 11 '24

FOREST reserves
See National parks and reserves

FOREST roads
Low type forest service road from Tusas to Tres Piedras, New Mexico. C. A. Long. il Eng & Contr (R & S) 64:547-9 S 2 '25
National forests road systems. L. I. Hewes. Eng & Contr (R & S) 62:1021-4 N 5 '24

FORESTERS
Foresters and the pulp and paper industry. B. A. Chandler. Paper Tr J 81:67-8 Jl 2 '25

FORESTRY laws and legislation
Clarke forestry law. M. C. Calkins. J Land & Pub Util Econ 1:126-8 Ja '25
Facts on the Clarke-McNary forestry act. Ry R 76:737 Ap 18 '25
Features of Clarke-McNary bill. Paper 34: 418 Je 26 '24
Foresters point way out of timber famine threat. Ptr Ink 130:124 Ja 29 '25
Paper industry endorses forestry bill. Paper Tr J 78:23-4 Mr 27 '24
President signs McNary-Clarke forestry bill. Paper 34:325-6 Je 12 '24
Sweden's new forestry legislation. Paper Tr J 79:34+ Jl 24 '24

FORESTS and forestry
Economic aspects of forestry. W. B. Greeley. J Land & Pub Util Econ 1:129-37 Ap '25
Forest resources and foreign trade. H. E. Shepherd. Paper Tr J 80:32+ Je 25 '25
Forestation of watersheds. Am Water Works Assn J 12:348-50 N '24; Excerpt. (Meyer). Eng & Contr (W W) 63:310 F 11 '25
Protection of public water supply by forest cover. W. W. Ashe. Am Water Works Assn J 13:404-9 Ap '25; Excerpt. Pub Works 56:216 Je '25; Discussion. Am Water Works Assn J 13:409-10 Ap '25
Trees and climate. H. de H. Haig. Sci Am 129:399 D '23
Where shall we look for wood? Paper 34:337-8 Je 12 '24

See also Forest fires; Foresters; Landscape gardening; Lumber; Lumber trade; Lumbering; Pine; Tree planting; Wood

Alaska
Alaska as a paper center. Paper 34:948-50 S 11 '24

California
What forestry means to the mining industry. T. D. Woodbury. il Eng & Min J 119:443-6 Mr 14 '25

Canada
Dominion's forestry situation. Can Eng 48: 400 Ap 14 '25
Object of forest reserves. Can Eng 49:157 Jl 21 '25
Ontario forest survey report. Can Eng 46: 620 Je 17 '24
Report of the Royal commission on pulpwood, July, 1924. 292p Canada Royal commission on pulpwood, Ottawa '24
Review of forest problem in Canada. R. D. Craig. Can Eng 48:445-7 Ap 28 '25

Chile
Forest resources and lumber industry of Chile. R. H. Ackerman. U S Bur For & Dom Com Trade Information Bul 324:1-28 Mr '25

Latin America
Bibliography
Books and magazine articles in the library of the Pan American union. 17p Pan American union, Washington, D.C. (typew)

Louisiana
Forestation in Louisiana. J. E. Ransdell. Manuf Rec 87:68-9 F 12 '25
Reforestation venture in southern Louisiana. il Manuf Rec 87:84-6 Ap 16 '25

North America
Sources of pulp in North America. G: J. Druckerman. Paper Tr J 78:44+ Je 5; 36+ Je 12 '24

Ontario
Reforestation problems in Northern Ontario. E. W. Neelands. Can Eng 46:413-14 Ap 8 '24

Pacific coast
Pulp possibilities on the Pacific coast. Paper 34:907-8 S 4 '24

Pennsylvania
Trees help to reduce costs of coal mining. R. J. Arthur. il Coal Age 27:645-7 Ap 30 '25

Southern states
Information submitted by the forestry committee of the Southern pine association. Ry R 76:621-2 Mr 28 '25
Past, present and future of forestry and lumbering in the South. B. A. Johnson. Manuf Rec 86:314-25 pt 2 D 11 '24
Pulpwood resources in southern states. J: D. Rue and S. D. Wells. Paper 34:282-3 Je 5 '24; Same. Paper Tr J 79:48-9 Jl 24 '24; Same abr. Chem Age 32:415-17 O '24
Reforestation a sleeping giant of possibilities. Manuf Rec 86:62-3 Jl 17 '24
Reforestation of South's timber lands to foster naval stores industry. Manuf Rec 86: 98 O 9 '24
Southern timber resources in relation to paper making. A. Cary. il Tech Assn Pa ser 7:87-90 Je '24; Same. Paper Tr J 78:57-60 My 8 '24

Sweden
Forestry in Sweden. Eng & Contr (G C) 64: 634 S 16 '25
Sweden's new forestry legislation. Paper Tr J 79:34+ Jl 24 '24

United States
Economic considerations affecting the program of reforestation in the United States. Econ W n s 30:148-51 Ag 1 '25
Evolution of forest industries in the United States. W. B. Greeley. W Soc E J 29:1-12 Ja '24
Forestry and land development in the Lake states. R. Zon. J Land & Pub Util Econ 1: 36-43 Ja '25
How the United States can meet its present and future pulp-wood requirements. E. H. Clapp and C: W. Boyce. il maps U S Agric Bul 1241:1-100 '24; Excerpt. Chem & Met Eng 31:193-5 Ag 4 '24
Importance of American forest week to advertisers. Ptr Ink 131:170+ Ap 2 '25
Lake states forest station. R. Zon. Paper 33: 11-13 N 15 '23
Our forestation problem. J: H. Haak. il Min Cong J 10:94-6 F '24
Papermen speak at Washington. Paper 33:18-19 F 14 '24
Recent progress and trends in forestry in the United States. J. W. Toumey. Paper Tr J 80:30+ My 28 '25
Reforestation and timber conservation. J: W. Blodgett. il Mech Eng 46:59-63+ F '24
Reforestation by Long-Bell lumber co. Eng & Contr (Bldgs) 64:678 S 23 '25
Reforestation needed to save advertising. J. True. il Ptr Ink M 9:26-8+ N '24

See also Forest roads

FORGAN, James Berwick, 1852-1924
Recollections of a busy life. J. B. Forgan. 335p Bankers pub. co., New York '24; Review. por Bankers M 109:362 S '24
Sketch. por Bankers M 109:947-8 N '24

FORGE shops
Diesel engine experience in a modern forge plant. J. P. Harbeson, jr. N E Water Works Assn J 39:138-40 Je '25
Drop-forged fittings for high pressures; illustrations. Am Mach 62:842-3 My 28 '25
See also Blacksmith shops

Safety devices and measures
Safety code for forging. il diag Nat Safety N 9:55-61 Je '24
Safety spells economy in forge shop. il Iron Tr R 76:507 F 19 '25

FORGERY
Bank note forgeries. Inland Ptr 74:217-18 N '24
Depositor's duty to examine canceled checks for forged signatures. Bankers M 111:27-8 Jl '25
How crooks attack your bank account. W. Bishop. Nation's Business 12:23-4 Ja '24
Revealing the weak spots in the slickest forgeries. R. A. Lewis, jr. Am Bankers Assn J 17:141-3+ S '24
We make it easy for the crooks. F. S. Clark. Burroughs Clearing House 9:20+ Ag '25
Why invite the crook to the lobby? H. McLellan. Burroughs Clearing House 9:11-12+ Ja '25

FORGERY insurance. See Insurance, Forgery

FORGES
Avoiding overheating men; keeping hot forge furnace gases away from operators to promote efficiency. il Iron Age 113:1730 Je 12 '24
Étude du fonctionnement de la forge maréchale. il diag Génie Civil 83:543-6 D 1 '23
Inexpensive forge for small jobs. C. Lynndelle. il Eng N 92:773-4 My 1 '24
Oil-burning rivet forges and torches. il Ry Mech Eng 97:848-9 D '23

FORGING
Advanced drop forging. diags Iron Age 116: 153 Jl 16 '25
Clink detector for steel ingots and forgings. il diags Engineering 118:658 N 7 '24; Abstract. Génie Civil 86:519 My 23 '25
D-links for colliery tram-shackles. W. R. D. Jones. il Engineer 139:sup78-80 My 29 '25
Drop forging. F. P. Deissler. il Ry Mech Eng 99:577-8 S '25
Drop forging of connecting rods on quantity scale. Schweissguth. diags Automotive Ind 53:290 Ag 20 '25
Forging and machining connecting rods. F. H. Colvin. il Am Mach 63:155-7 Jl 23 '25
Forging and smithing, a book for schools and for blacksmiths. L. C. Jones. 211p Century co. '24
Forging and tempering high-speed and carbon tool steels. Ry R 75:282-3 Ag 23 '24
Forging of automobile crankshafts. J: H. Nelson. il Blast F & Steel Pl 13:129-33+ Mr '25
Forging temperature of steels. K. Honda. Iron & Steel Inst J 109:313-17, pl 15; Discussion. 318-22 no 1 '24
Forging the flutes in twist drills. il Am Mach 63:469-71 S 17 '25
From anvil to drop hammer. H. R. Simonds. il Iron Tr R 74:163-6 Ja 10 '24
How car couplings should be forged. Coal Age 27:756 My 21 '25
How forgings are produced in railroad shops. E. Nilsson. il diags Ry R 77:227-30 Ag 15 '25
Machine forging dies. C. C. Hermann. diags Mach 30:674-6, 754-7; 31:34-6, 433-6 My-Je, S '24, F '25
Manufacture, heat treatment and average life of die blocks. F. Rose. il Engineer 140:sup 109-10 Jl 31 '25
Notable economies in forging locomotive frames. il diag Ry R 73:687-9 N 10 '23
Precautions needed in production of automotive drop forgings. il Automotive Ind 50:1388-91 Je 26 '24
Production of heavy forgings. il diag Mech Eng 46:241-7+ My '24
Über das wesen der plastischen verformung. H. Hencky. Zeit Ver Deutsch Ing 69:1253-4 S 26 '25
Upsetting machine lowers cost of production on certain kinds of forgings. il Automotive Ind 52:226-7 F 5 '25; Same abr. Mech Eng 47:289-90 Ap '25
See also Blacksmithing; Chains—Manufacture; Dies; Forge shops; Forging machinery; Furnaces, Forging; Hammers, Drop; Steel forgings; Welding

Accounting
Essentials of drop forging accounting. J. B. Sehl and others. 140p American drop forging institute, Pittsburgh '24

Study and teaching
Forge work course for engineers. L. C. Scott. Eng Educ 14:600-2 Je '24

FORGING machinery
Ajax drop-lock for forging machines. il diags Mach 30:403 Ja '24; Am Mach 60:154 Ja 24 '24
Bringing your customers to your plant. A. J. Hain. il Iron Tr R 77:560-2 S 3 '25
Bulldozer as an aid to the drop hammer. R. H. Howard. diags Am Mach 61:701 O 30 '24
Bulldozer in manufacture of heavy forgings. diags Iron Age 114:135 Jl 17 '24
Designing forging machine dies. A. C. Roepke. diags Am Mach 63:587-92 O 8 '25
Kobert electric riveting and forging machine, type NC. il Am Mach 63:559 O 1 '25
Laminated spring forging machine. il Engineer 138:534 N 7 '24
Large Ajax forging machine being built in Cleveland. diag Am Mach 61:343 Ag 28 '24; Mach 31:59 S '24
National machinery co. exhibits forging and bolt machinery. Iron Age 116:627-8 S 3 '25; Am Mach 63:416a S 3 '25
New furnaces serve forge press. il Iron Tr R 75:1648-50 D 18 '24

FORM letters. See Commercial correspondence; Sales letters

FORMALDEHYDE
Action of ozone on hydrocarbons, with special reference to the production of formaldehyde. E. W. Blair, T. S. Wheeler and W. Ledbury. Soc Chem Ind J 43:287-9 S 5 '24
Action of ultraviolet light upon carbon dioxide and water. C. W. Porter and H. C. Ramsperger. Am Chem Soc J 47:79-82 Ja '25
Chemistry of water-proofing processes; the effect of formaldehyde on wool. D. Anthony-Langslade. Chem Age (Lond) 11:597 D 13 '24
Formaldehyde in wire cleaning. R. C. Griffin. Paper 34:520 Jl 10 '24
Formaldehyde to increase the efficiency of pickling baths in steel mill practice; patent. Chem Age 32:100 F '24
Interaction of formaldehyde and the nitronaphthylamines. G. T. Morgan and F. R. Jones. Soc Chem Ind J 42:92-7 Mr 16 '23
Liberation of hydrogen from carbon compounds; the interaction of acetylene, methyl alcohol and formaldehyde with fused caustic alkalies. H. S. Fry, E. L. Schulze and H. Weitkamp. Am Chem Soc J 46:2268-75 O '24
Oxidation of hydrocarbons with special reference to the production of formaldehyde; the slow oxidation of the higher liquid, saturated hydrocarbons. T. S. Wheeler and E. W. Blair. Soc Chem Ind J 42:491-7 D 21 '23
Partial formaldehyde vapour pressures of aqueous solutions of formaldehyde. E. W. Blair and W. Ledbury. diag Chem Soc J 127: 26-40 Ja '25
Photosynthesis. E. C. C. Baly. Ind & Eng Chem 16:1016-18 O '24

FORMALDEHYDE—*Continued*
Preservatives and colouring matters in food. Chem Age (Lond) 11:166 Ag 16 '24
Reaction of cracked spirit with formaldehyde. W. R. Ormandy and E. C. Craven. Inst Pet Tech J 10:99-100 F '24
Uses of formaldehyde; chart. Chem Age 32: 161 Ap '24
Viscosity of syrupy condensation products of phenol and formaldehyde. A. A. Drummond. Soc Chem Ind J 43:323-6 N 7 '24

FORMAN, Charles
House of Charles Forman, Winnetka, Ill. il plan Arch Forum 43:219-24, pl 65-7 O '25

FORMIC acid
Action of formic acid on certain sesquiterpenes. J: M. Robertson, C. A. Kerr and G: G. Henderson. Chem Soc J 127:1944-6 S '25
Formic acid. W. J. Chester. Textile Col 46:788-9 D '24
Properties of mixtures of aniline, water, and some fatty acids. J. R. Pound and R. S. Russell. Chem Soc J 125:769-80 Ap '24
Use of formic acid in dyeing. Am Dyestuff Rep 14:342-3 My 18 '25

FORMICA
Making and testing material for non-metallic gears. F. H. Colvin. il Am Mach 63:725-8 N 5 '25

FORMING tools
Circular forming tool dimensions. L. W. Close. diags Mach 31:630-2 Ap '25
Finishing circular forming tools. B. F. Eddie. diags Mach 31:100 O '24
Forming tool for circular grooves. C: Kugler. diags Mach 31:605 Ap '25
Formulas for circular forming tools; data sheets. Mach 30:678a My '24
Multiple-operation press tools. A. H. Hawley. diags Am Mach 60:412 Mr 13 '24
Press tools for mouth-pieces. diags Mach 31: 226 N '24
Spherical forming tools. C: Kugler. diags Mach 31:812-13 Je '25
Tool for machining ball rings on a lathe. diags Ry Mech Eng 99:176 Mr '25
Tools and formers for the blacksmith shop. S. J. Uren. il Ry Mech Eng 99:651 O '25

FORMS (law)
Forms in common use. T: F. O'Malley. 2d ed., rev. & enl. 636p E. W. Hildreth, Boston '24

FORMS and blanks, Business
Can your printed forms pass this test? J. M. Schappert. Factory 32:671-2 My '24
Designing of printed forms. P. M. Atkins. Ind Management 68:235-41 O '24
Forms prepared for report of committee on analysis of gas company statistics. Am Gas Assn Accounting sec v 6:233-76; Discussion. 277-87 '24
Forms will be smaller and thinner. F. L. Beach. Burroughs Clearing House 9:21-2 Ja '25
How to design effective business forms. J. Eigelberner. Ind Management 69:245-50 Ap '25
Private printing plants. W. W. Fulmer. Ry R 77:99-100 Jl 18 '25
Shop and office forms; their design and use. W. Clark. 136p McGraw-Hill '25
Standard forms for office and shop use. Management & Adm 7:695-8 Je '24
See also Electric railroads—Forms, blanks, etc.; Invoice forms; Order blanks; Railroads—Forms, blanks, etc.; Records

Merchandizing
It's our best merchandising idea—and why. L: T. Marshall. System 47:605-7 My '25

FORSTER, Frank J.
Use of half timber, stucco and brick shown in some recent work of Frank J. Forster. il plans Arch Forum 43:225-32 O '25

FORT DODGE, Des Moines and Southern railway
Fort Dodge, Des Moines & Southern 1st 5s, 1938. Moody's Inv Serv 17:356 O 29 '25

FORT SMITH, Arkansas
Fort Smith a center of great natural wealth—a summary of the city's industrial and other activities. R. Gill. Manuf Rec 85:115 Ap 3 '24
$3,000,000 in building and industrial developments at Fort Smith, Ark. R. Gill. il Manuf Rec 88:72-4 O 8 '25

FORT WORTH, Texas
Fort Worth: a romance of achievement. R. Ady. il Manuf Rec 85:107-14 Ap 3 '24

Hotels
Hotel Texas; views and plans. Arch Forum 39:pl 91 N '23

Sewerage
Accident to Imhoff tank unit at Forth Worth, Texas. J: B. Hawley. il diags Eng N 95:54-5 Jl 9 '25; Same. Sanitary & Heat Eng 104: 215+ O 2 '25; Discussion. Eng N 95:278, 482 Ag 13, S 17 '25

Water supply
Aeration of water at Fort Worth, Texas. W. S. Mahlie. il Am Water Works Assn J 13:449-58 Ap '25

FOSSILS. See Paleontology

FOSTER, Claude H.
"Gabriel horn" man. L: B. Seltzer. Comm & Fin 14:990 My 20 '25

FOSTER, William James
Sketch. por Elec W 83:1270 Je 21 '24

FOUNDATION company
Why Foundation company wins where others fail. W: A. McGarry. il Forbes 16:583-6+ Ag 1 '25

FOUNDATION soils
Progress report of the special committee to codify present practice on the bearing value of soils for foundations, etc. Am Soc C E Pro 51:884-97 My '25; Discussion. S. J. Fortin. 51:1208-11 Ag '25
Progress report of the special committee to codify present practice on the bearing value of soils for foundations, etc.; discussion. J. Feld and H. Chatley. Am Soc C E Pro 50: 114-21 Ja '24
Some notes on foundations. C: R. Gow. il diags Eng Soc W Pa 40:339-66; Discussion. 367-79 Ja '25
See also Roads—Subgrades

Testing
Experimental loading on granular material. D. E. Moran. il J Fr Inst 199:493-501 Ap '25

FOUNDATIONS
Adequate precautions in foundation work. W: V. Fitzgerald. diag Bldg Age 46:104 F '24
Die arbeiten für das Isarwehr in Oberföhring. il diags Zeit Ver Deutsch Ing 68:716-18 Jl 5 '24
Building a large cable plant; progress of the Western Electric works, Kearny, New Jersey. il Metal Ind 23:3 Ja '25
Building a pile foundation for a marshland factory; Western Electric co. plant near Newark. R. L. Hart. il diags map Eng N 93:208-11 Ag 7 '24
Composite foundations for large temple building. diags plans Eng N 91:842-3 N 22 '23
Concrete mattress foundations; how they were used at new engine terminal at Sharpsburg, Pa. il diag Eng & Contr (G C) 63:831-2 Ap 17 '25
Construction methods and plant for substructure of Barclay-Vesey building, New York. F. W. Skinner. il plan Concrete 25:19-22 Jl '24
Deep foundations replace piles tilting to river. il diag Eng N 94:818-19 My 14 '25
Extension of the middle third theory. A. C. Vivian. diags Engineering 118:763-4 D 5 '24
Fortschritte im gründungsbau. O. Burmeister. il diags Zeit Ver Deutsch Ing 68:712-15 Jl 5 '24
Foundation development during fifty years. D. E. Moran. il Eng N 92:670-3 Ap 17 '24

FOUNDATIONS—*Continued*

Foundation test loads as affected by scale. S. D. Carothers. Can Eng 47:439-42 O 21 '24; Same. Eng & Contr (Bldgs) 64:939-45 O 28 '25

Foundations for heavy equipment extended through 30 ft. of silt. W. C. Stevenson. il Concrete 25:208-10 D '24

Foundations for the George Washington national masonic memorial, Alexandria, Va. il plans Am Arch 125:211-16 F 27 '24

Foundations repaired with precast units; supporting structure of a steam plant while in operation. C. P. Dunn. il diag Concrete 27: 3-5 Jl '25

Foundations under steam plant renewed without shutdown. C. P. Dunn. il Eng N 94: 888-90 My 28 '25

Four-story substructure for a steel building; Barclay-Vesey telephone building, New York. F. W. Skinner. il diag Arch Forum 41: 111-12 S '24; Same. Eng & Contr (Bldgs) 63:179-81 Ja 28 '25

Heavy foundations on sand rock, Nebraska capitol. R. H. Chambers. il diags plan Eng N 94:107-9 Ja 15 '25

Massive foundations in soft ground; New York Edison company building. il Pub Works 56:75-8 Mr '25

Massive wet soil foundations for a great steam-electric power house. F. W. Skinner. il Munic & Co Eng 69:77-80 Ag '25

Novel construction of concrete foundations for structures. W. G. Kirchoffer. Munic & Co Eng 67:289-91 D '24

Old concrete piles re-used in trainshed foundation. J. L. Starkie. il Ry R 74:322-3 F 23 '24

Renewing foundation under steam plant, with station in service. il Power 61:573 Ap 14 '25

La résistance des pieux de foundation. de Thierry. Génie Civil 85:278-9 S 27 '24

Settlement and righting of a factory building in Holland. il diags Engineering 117:174-6 F 8 '24

Small open caissons used in water-bearing material. il plan Eng N 93:826-7 N 20 '24

Some notes on foundations. C: R. Gow. il diags Eng Soc W Pa 40:339-66; Discussion. 367-79 Ja '25

Substructure for $50,000,000 plant in a bog; Western Electric co. plant near Newark. F. W. Skinner. il diag Eng & Contr (G C) 63: 1321-4 Je 17 '25

Substructure of New York Edison co.'s power house. F. W. Skinner. il Eng & Contr (G C) 63:794-801 Ap 17 '25

Top slab of culvert carries walls of bank built over creek. N. H. Sturdy. il diag plan Eng N 94:988-9 Je 11 '25

Water problem. W: F. Williams. Boston Soc C E J 10:441-6 D '23

See also Bridges—Foundations and piers; Building; Caissons; Cellars; Cofferdams; Column footings; Concrete construction, Subaqueous; Concrete piling; Cribs, Concrete; Foundation soils; Machinery—Foundations; Pavements—Foundations; Piers (foundations); Piles and pile driving; Roads—Foundations; Shoring and underpinning; Walls

Specifications

Outline of tentative specifications for foundation walls and footings. Am Arch 125:sup 16+ My 7 '24

Testing

Foundation tests by Chicago Union station company. J. D'Esposito. il diags W Soc E J 29:33-44 F '24; Same. Eng & Contr (Bldgs) 61:669-80 Mr 26 '24

FOUNDATIONS, Charitable and educational

American foundations for social welfare—a selected bibliography. Russell Sage Foundation Library Bul 65:1-35 Je '24

FOUNDERS. See Brass foundries—Employees; Foundries—Employees

FOUNDING

See Aluminum founding; Brass founding; Copper founding; Foundry practice; Iron founding; Molding machines

FOUNDRIES

American and German foundry practice. U. Lohse. Iron Age 115:1571+ My 28 '25

American versus European foundry practice. H: M. Lane. Iron Age 113:803-4 Mr 13 '24; Same. Brass W 20:264-5 Ag '24

Centrifugal castings foundry at Sheepbridge, England. Iron Tr R 75:420 Ag 14 '24

Foundries of automobile builder; Cadillac plant houses iron, aluminum and brass units together. F. L. Prentiss. il plan Iron Age 115:1035-40, 1199-1202 Ap 9, 23 '25

Handling 168 tons for every ton produced. Monthly Labor R 20:1259-63 Je '25

Iron supply governs location; malleable foundry in Michigan. il plan Foundry 52: 389-95 My 15 '24

Manganese steel maker builds coast foundry. il Iron Tr R 77:490+ Ag 27 '25

Neuzeitliche giesserei für schweren maschinen- und kokillenguss. F. Meisner. il diags plan Stahl & Eisen 45:1470-6 Ag 27 '25

New Cadillac foundry. il Am Mach 63:694-5 O 29 '25

New ironfoundry at a Sheffield works. il Engineer 139:374-6, 382 Ap 3 '25

New nonferrous shop reflects owners training; Gluntz brass foundry co. il Foundry 53:318-21 Ap 15 '25

Studebaker gray iron foundry largest. G. L. Lacher. il plans Iron Age 114:835-42 O 2 '24

Study of foundry building design. diags plans Iron Age 114:1334-7 N 20 '24

Time is best test of industrial plant design; Consolidated press company, Hastings, Mich. il plan Iron Tr R 76:1567-71 Je 18 '25

Tunnels facilitate handling of material in new foundry. P. Dwyer. il plan Iron Tr R 75:879-83+ O 2 '24; Same abr. Foundry 52: 806-12 O 15 '24

See also Brass foundries; Foundry management; Foundry practice; *also* American cast iron pipe company; Longdale iron company

Accounting

See Foundry accounting

Congresses

4th congress of Association technique de fonderie de France, Paris, Nov. 21-23. Foundry 52:990+ D 15 '24; Iron Age 114: 1557 D 11 '24; Iron Tr R 75:1586-7 D 11 '24

Electric equipment

Completely electrified foundry. E. J. Cipperly. il diag Elec W 84:515-17 S 13 '24

Electrification of the foundry. L. P. Egan. il Blast F & Steel Pl 11:587-604 D '23; Abstract. Brass W 19:403-4 D '23

See also Electric furnaces, Foundry

Employees

Apprentice training plans shown. Foundry 52: 842-3 N 1 '24

Apprenticeship in foundry trades in Philadelphia. Monthly Labor R 20:431-2 F '25

Combined shop and school plan solves apprenticeship problem. H. L. Pierce. il Foundry 53:688-9 S 1 '25

Compares foundry earnings. Foundry 52:379-80 My 15 '24

Co-ordinating employe training. L. A. Hartley. Iron Tr R 76:1451-4 Je 4 '25; Same. Foundry 53:522-5 Jl 1 '25

Cutting tomorrow's labor costs. H. A. Frommelt. il Iron Age 115:1773-4 Je 18 '25

Foundry wage survey of 1923. Iron Tr R 75: 1440 N 27 '24

French foundry apprentices. H: M. Lane. Iron Age 112:1723 D 27 '23; Same cond. Brass W 20:71 F '24

How Mesta makes molders. R. A. Peebles. Foundry 52:881-4 N 15 '24; Same. Iron Tr R 75:1570-2+ D 11 '24

FOUNDRIES—Employees—*Continued*
Management principles of apprenticeship; the Falk apprenticeship system. H. A. Frommelt. Ind Management 69:365-7 Je '25
Managing steel foundries. R. A. Bull. Foundry 53:478-9 Je 15 '25
Modern apprenticeship program. H. A. Frommelt. Brass W 20:430-2; 21:26-7 D '24-Ja '25
Need for district organization of modern apprenticeship; Milwaukee plan. H. A. Frommelt. Mech Eng 47:96-8; Discussion. 101-2 F '25
Picking competent molders. R. J. Waldo. il diag Foundry 52:307-9 Ap 15 '24
Practical training for foundry work. C. M. Morrin. il Iron Age 116:1103-5 O 22 '25
Suggests discussion on apprentice training. J. F. Gaffney. Foundry 53:430 Je 1 '25
Training foundry apprentices. L. A. Hartley. Iron Tr R 77:818-19 O 1 '25
Training the molder. G. L. Gardiner. Brass W 21:175-6 My '25
Trains own staff of molders. il Foundry 52: 217-20+ Mr 15 '24
Wages and hours of labor in foundries and machine shops, 1923. U S Bur Labor Statistics Bul 362:1-120 '24
What an apprentice thinks. Foundry 52:917-19+ D 1 '24; Same. Iron Tr R 75:1641-3 D 18 '24
White collars versus overalls. H. A. Frommelt. Iron Age 115:1723-4 Je 11 '25
Wisconsin solves apprentice puzzle. il Foundry 52:752-7 O 1 '24; Same. Iron Tr R 75: 1018-22 O 16 '24

See also Brass foundries—Employees

Equipment and supplies

Adapting handling methods to plant expansion; Chapman valve mfg. co. M: W. Potts. il Ind Management 70:77-82 Ag '25
Adopt powdered coal system. il Foundry 52: 667-70 S 1 '24
August's mould and core-drying stoves. diags Engineering 120:372 S 18 '25
Auxiliary equipment in foundries. il Iron Age 116:72-3+ Jl 9 '25
Brings old plant up to date. P. Dwyer. il Foundry 53:512-14+ Jl 1 '25
British 2d annual show, Birmingham, marks progress. il Foundry 52:548-51 Jl 15 '24
Car wheel foundry with parallel motions. il plan Iron Age 114:67-70 Jl 10 '24
Castings handled on gravity carriers. il Foundry 52:595 Ag 1 '24; Same. Iron Tr R 75:598-9 S 4 '24
Continuous molding and casting in plant of Warren foundry co. at Warren, Ohio. il Iron Age 115:187-91 Ja 15 '25
Conveyor system cuts costs at Interstate foundries, inc., Cleveland. il Iron Age 116: 336-8 Ag 6 '25
Conveyor system in aluminum foundry. il Iron Age 114:843-4 O 2 '24
Cutting corners in material handling. A. G. J. Rapp. il Blast F & Steel Pl 12:Material handling sec 12-16 Ap '24
Equip small steel foundry of the Crucible steel casting co., Cleveland. il plan Foundry 51:914-19 N 15 '23
Equipment speeds output; Wilson bros. foundry & machine co., Pontiac, Mich. il Foundry 52:971-7 D 15 '24
Exhibition of the American foundrymen's association, Milwaukee, Oct. 11-17. il plan Iron Tr R 75:870-7 O 2 '24; Iron Age 114: 827-34 O 2 '24; Foundry 52:764-75, 846-52 O 1, N 1 '24
Exhibition of the American foundrymen's association at Syracuse. Foundry 53:772-81, 869-75 O 1, N 1 '25; Iron Age 116:810+, 1045-7 S 24, O 15 '25; Iron Tr R 77:808-15+, 927-31 O 1-8 '25
Flexibility increased by new foundry of the Hansell-Elcock co., Chicago. il plan Iron Age 115:751-4, 755 Mr 12 '25
Foundry maintenance and flask storage. il Iron Age 115:691-2 Mr 5 '25
From blast furnace to malleable casting; malleable foundry at Cadillac. G. L. Lacher. il plan Iron Age 113:921-6 Mr 27 '24
German foundrymen hold show. H. Hermanns. il diags plan Foundry 53:820-3 O 15 '25
Handling foundry materials. Cassier's Ind Management 11:135-7 Mr 6 '24
Handling heavy castings. il plan Foundry 53: 814-17 O 15 '25
Handling sand to speed output. il diag plan Foundry 53:412-15 My 15 '25
Improve shop transportation; the Walworth mfg. co., Boston. H. R. Simonds. il Foundry 52:920-3 D 1 '24
Jobbing foundry of Ford motor co. F. L. Prentiss. il diag Iron Age 113:1485-9 My 22 '24
Keeping pace with auto output; the plant of the Wilson foundry & machine co., Pontiac, Mich. il plan Foundry 52:718-25 S 15 '24
Machine equipment for the foundry; illustrations. Am Mach 62:844 My 28 '25
Make malleable on Pacific coast; new plant of the Pacific malleable castings co., Oakland, Cal. il Iron Tr R 75:1375-80 N 20 '24; Same. Foundry 53:56-60 Ja 15 '25
Make radiator sections on synchronized traveling conveyors. R. J. Heisserman. il Foundry 53:573-4 Jl 15 '25; Same cond. Iron Tr R 77:310-11 Ag 6 '25
Makes heavy steel castings; Dominion foundries and steel company, Hamilton, Ont. P. Dwyer. il plan Foundry 53:61-7 Ja 15 '25
Makes machine tool castings. P. Dwyer. il Foundry 52:957-62 D 15 '24
Malleable iron firm improves handling methods. B. R Mayne. il Foundry 52:6-10 Ja 1 '24
Malleable plant placed in service; Belle City malleable iron co., Racine, Wis. E. C. Boehringer. il diags plan Foundry 52:521-6+ Jl 1 '24; Same. Iron Tr R 75:29-33 Jl 3 '24
Mechanical aids handle sand in manganese shop. P. Dwyer. il Foundry 53:140-4+ F 15 '25
Mechanical aids used in foundries. Foundry 53:7-8 Ja 1 '25
Mechanical foundry minimizes labor. J. E. McDonald. il Iron Age 113:633-7 F 28 '24
Mechanical handling at River Rouge; the world's most modern foundry. M: W. Potts. il diag Ind Management 68:77-85 Ag '24
Mechanical methods dominate in plant of the Lavelle foundry company, Indianapolis. D. M. Avey. il diag plans Iron Tr R 74:601-6 F 28 '24
Operates three-story shop. il diags Foundry 52:167-74 Mr 1 '24
Oven stoker handles bituminous coal. J. W. Armour. il Foundry 52:236-7 Mr 15 '24
Production equipment in iron foundries. il diag Iron Age 115:969-71 Ap 2 '25
Refuse-material-handling apparatus. il diag Elec W 86:468-9 S 5 '25
Reservoir takes place of mixing ladle. H. R. Simonds. il Foundry 52:87 F 1 '24
Savings from conveyor and molding equipment; how foundry management has cut cost and increased output. R. T. Kent. il diags plan Management & Adm 7:209-14 F '24; Same. Cassier's Ind Management 11: 388-92 Ag '24
Self-contained heater for foundry and metallurgical use. diags Engineering 119:700-1 Je 5 '25
Eine tempergiesserei neuester anordnung. C. Irresberger. il Stahl & Eisen 45:1479-81 Ag 27 '25
Three level handling condenses foundry operations. il plan Foundry 53:593-7 Ag 1 '25
Tunnels facilitate handling of material in new foundry. P. Dwyer. il plan Iron Tr R 75:879-83+ O 2 '24; Same abr. Foundry 52: 806-12 O 15 '24

FOUNDRIES—Equipment and supplies—*Cont.*
Twenty-five years of progress in mechanical equipment for foundries. G. P. Fisher. Iron Age 115:41-2 Ja 1 '25

See also Casting machines; Converters; Core ovens; Crucibles; Cupola furnaces; Foundries—Electric equipment; Foundries—Safety devices and measures; Foundry flasks; Foundry ladles; Foundry machinery; Furnaces, Foundry; Ingot strippers; Molding machines; Molds (for casting); Oxy-acetylene apparatus; Sand blast; Sand cutting machines; Sand mixers

Heating and ventilation

Lighting and ventilating system of the new Studebaker foundry. il Eng & Contr (Bldgs) 62:937-8 O 22 '24

Layout

Completes new southern plant at Birmingham, Ala. for Continental gin co. il plan Iron Tr R 77:744-6 S 24 '25; Same. Foundry 53:637-9 Ag 15 '25
Foundry designed for heaviest work. F. L. Prentiss. il plan Iron Age 113:1274-7 My 1 '24
Illustrating the modern foundry. F. D. Chase. il Brass W 21:153-7 My '25
Ingot mold foundry of the Vulcan mold & iron co., Latrobe, Pa. P. Dwyer. il Foundry 52:125-30 F 15 '24
Keeping pace with auto output; the plant of the Wilson foundry & machine co., Pontiac, Mich. il Foundry 52:718-25 S 15 '24
Make heavy machine parts. P. Dwyer. il Foundry 52:179-84+ Mr 1 '24
Malleable plant placed in service; Belle City malleable iron co., Racine, Wis. E. C. Boehringer. il diags Foundry 52:521-6+ Jl 1 '24; Same. Iron Tr R 75:29-33 Jl 3 '24
Operates three-story shop; Lavelle foundry co. at Indianapolis. il diags Foundry 52: 167-74 Mr 1 '24
Pours iron on second floor; foundry of the Tri-Cities malleable castings co., East Moline, Ill. E. C. Boehringer. il plans Foundry 52:455-9 Je 15 '24
Pumps made in quantities. P. Dwyer. il diag plan Foundry 52:417-23+ Je 1 '24
Reconstructing plant under production; Belle City malleable iron co., Racine, Wis. G. L. Lacher. il plan Iron Age 114:5-9 Jl 3 '24
Specializes manganese steel. H. E. Diller. Foundry 51:892 N 15 '23; Same. Iron Tr R 73:1673 D 20 '23
Steel foundry capacity doubled. G. L. Lacher. il plans Iron Age 116:947-51 O 8 '25

Lighting

Foundry lighting in the earlier days. R. E. Masters. diag Foundry 53:113 F 1 '25
How to illuminate foundries. W. H. Rademacher. il Iron Tr R 75:741-5 S 18 '24; Same. Foundry 53:29-33 Ja 1 '25
Lighting and ventilating system of the new Studebaker foundry. il Eng & Contr (Bldgs) 62:937-8 O 22 '24

Management

See Foundry management

Reconstruction

Reconstructing plant under production; Belle City malleable iron co., Racine, Wis. G. L. Lacher. il plan Iron Age 114:5-9 Jl 3 '24

Safety devices and measures

Knocking out home runs in the Fairies' safety league. G: E. Wallis. il Nat Safety N 10:5-9 D '24
Preventing accidents in foundries. H. A. Rowlands. Safety Eng 50:135-9 S '25
Preventing the unpreventable accidents in the foundry. L. D. Burlingame. il Nat Safety N 12:37-9 Jl '25; Same cond. Foundry 53:610-11 Ag 1 '25; Same cond. Iron Tr R 77:428-9 Ag 20 '25
Protecting against burns in the foundry. R. N. Phelps. il Factory 33:582+ O '24
Safety code for the protection of industrial workers in foundries. U S Bur Labor Statistics Bul 336:1-12 '23
Selling safety ideas in the foundry. E. H. Ballard. Foundry 53:818-19+ O 15 '25; Same. Iron Tr R 77:895+ O 8 '25

Statistics

Decrease in foundries noted. maps Foundry 52:801-5 O 15 '24; Same abr. Iron Tr R 75: 1092-4 O 23 '24
Foundry statistics 1924-1922. Brass W 20:403 N '24

Mexico

Drop in, between revolutions; how the foundry business in Mexico must be cultivated. H. H. Miller. Iron Tr R 75:1302-4 N 13 '24; Same. Foundry 53:68-9+ Ja 15 '25

FOUNDRIES, Ship
Foundries on our men of war. A. M. Charlton. il diags plan Foundry 52:584-8 Ag 1 '24; Same. Iron Tr R 75:416-20 Ag 14 '24
Will make castings at sea. A. M. Charlton. il diags Foundry 52:877-80 N 15 '24; Same. Iron Tr R 76:225-8 Ja 15 '25

FOUNDRY accounting
Costs in the foundry. Iron Age 114:1059+ O 23 '24
Distribute costs on each job; manufacturer of electric steel castings makes detailed tabulation of expenses. E. C. Boehringer. il diag Foundry 52:207-12 Mr 15 '24; Same. Iron Tr R 74:853-7 Mr 27 '24
Distributing the burden of overhead. H. P. Keller. Foundry 53:580 Jl 15 '25
Factory and foundry accounting. G. G. Thompson. Management & Adm 9:169-72 F '25
Finding actual cost of castings. G: B. Cocker. Iron Tr R 75:421-2 Ag 14 '24; Same. Foundry 52:665-6 S 1 '24
Form classifies castings. Foundry 51:924-5 N 15 '23; Same. Iron Tr R 74:804 Mr 20 '24
Foundry cost plan. T: Perkins. chart Foundry 52:303-6 Ap 15 '24
Practical foundry cost accounting. E. T. Runge. Iron Age 116:1184 O 29 '25
Selbstkostenermittlung in giessereibetrieben. W. J. Corbett. Stahl & Eisen 45:1037-40 Je 25 '25
Should record all cost control factors. H. P. Keller. Foundry 52:896 N 15 '24
Uniform cost method helpful. R. E. Belt. Foundry 52:65-7 Ja 15 '24

FOUNDRY chemistry
Beiträge zur eisenhüttenchemie, 1923. A. Stadeler. diags Stahl & Eisen 44:1411-15, 1457-60 N 6-13 '24
Beiträge zur eisenhüttenchemie (Januar bis Juni 1924). Stahl & Eisen 45:759-65, 803-6 My 14-21 '25
Beiträge zur eisenhüttenchemie (Juli bis Dezember 1924). A. Stadeler. Stahl & Eisen 45: 1390-4, 1432-7 Ag 13-20 '25
Beiträge zur eisenhüttenchemie (Januar bis März 1925). A. Stadeler. diag Stahl & Eisen 45:1644-8 S 24 '25
Typical analyses of miscellaneous commodities used in foundry practice. J. M. Quinn. Foundry 52:634a, 688a, 720a, 776a, 822a, 852a, 888a, 930a, 970a; 53:18a Ag 15 '24-Ja 1 '25

See also Alloys

FOUNDRY costs
Keeps record of cleaning costs. B. K. Price. il Iron Tr R 74:1165-6+ My 1 '24; Same. Foundry 52:272-4 Ap 1 '24

See also Foundry accounting

FOUNDRY fillets. See Fillets, Foundry

FOUNDRY flasks
Foundry maintenance and flask storage. il Iron Age 115:691-2 Mr 5 '25
Hines mfg. co. develops new flask. il Foundry 53:757 S 15 '25
Makes wood lined steel flasks. J. R. Arneson. diags Foundry 52:95 F 1 '24
Principles in cast iron flask design. H. Cohen. diags Iron Age 113:1137-40 Ap 17 '24
Upward pressure of cores and copes. H. Cohen. Iron Age 114:819-20 O 2 '24

FOUNDRY furnaces. See Furnaces, Foundry

FOUNDRY ladles

Maintaining steel ladles. S. R. Robinson. Foundry 52:316-17 Ap 15 '24; Same. Iron Tr R 74:1568-9 Je 12 '24

Portable ladle drying apparatus. H. Hermanns. diag Foundry 52:197 Mr 1 '24

Refining metals electrically. L. J. Barton. il Foundry 53:657-60, 697-700+ Ag 15-S 1 '25

Self-levelling foundry ladle. il Engineering 119:303 Mr 6 '25; Engineer 139:469 Ap 24 '25

FOUNDRY machinery

Foundry machines that show the trend of French design. F. M. Mansfield. il Am Mach 60:277-8 F 21 '24

German firm builds core machine. H. Hermanns. il Foundry 52:567-8 Jl 15 '24

Green rotary core-making machine. il diag Engineering 119:195 F 13 '25

Multiple core-making machines. il Iron Age 113:852 Mr 20 '24

Remove cores and adhering sand from automobile cylinder castings with vibrator. il Foundry 51:984-5 D 15 '23

Skeppstedt multiple core-making machine. E. G. Erickson. il Metal Ind 22:291-3 Jl '24

Special rig molds generator frames. il Foundry 51:950-1 D 1 '23

See also Casting machines; Die casting machines; Molding machines; Sand cutting machines; Straightening machines

Exhibitions

Exhibition of the American foundrymen's association, Milwaukee, Oct. 11-17. il plan Iron Tr R 75:870-7, 1028-32 O 2, 16 '24; Iron Age 114:827-34 O 2 '24; Foundry 52: 764-75, 846-52 O 1, N 1 '24

Exhibition of the American foundrymen's association at Syracuse. Foundry 53:772-81, 869-75 O 1, N 1 '25; Iron Age 116:810+, 1045-7 S 24, O 15 '25; Iron Tr R 77:808-15+, 927-31 O 1-8 '25

Second International foundry trades exhibition, Birmingham, Eng., June 19-28. il Foundry 52:424-6, 548-51 Je 1, Jl 15 '24; Engineer 137:726-8 Je 27 '24; Engineering 117:824-5 Je 27 '24; Iron Tr R 75:109-10 Jl 10 '24

FOUNDRY management

Analysis of the tax upon the material handling system of a foundry. M. Sklovsky. Brass W 21:337-8 O '25

Checking up losses in the foundry. L. C. Breed. Blast F & Steel Pl 12:376 Ag '24

Compare core binders on pound basis. W. H. Albohn. Foundry 52:547 Jl 15 '24

Cooperating with the foundry on rush orders. J. P. Glynn. Mach 31:796 Je '25

Detroit gray iron foundry blazes trail to jobbing profits. D. M. Avey. Foundry 53:3-7 Ja 1 '25

Foundry costs and other problems discussed by Ohio foundrymen. Iron Age 116:689-90 S 10 '25

Foundry maintenance and flask storage. il Iron Age 115:691-2 Mr 5 '25

Foundry management and its effect on costs: abstract. W. J. Barrett. Iron Age 116:1043 O 15 '25

Foundry sales methods that made money. il Iron Age 116:401-4 Ag 13 '25

Getting castings out on schedule. Iron Age 115:193-6 Ja 15 '25

How a southern jobbing shop developed its market. C: R. Law. il Foundry 53:301-4 Ap 15 '25; Excerpt. Iron Tr R 76:1059-60 Ap 23 '25

How does the P.A. get that way? Foundry 53: 137-9, 175-7, 217-19 F 15-Mr 15 '25

How we make date due coincide with date shipped. A. Hegeman. il Factory 33:38-9 Jl '24

Kinks to stop foundry leaks. J. M. Hollowell. Foundry 51:981-3 D 15 '23

Making castings for lighting fixtures. H. R. Simonds. il Foundry 53:679-83 S 1 '25

Making locomotive castings. H. E. Diller. il plan Foundry 52:137-42 F 15 '24

Malleable iron firm improves handling methods. B. R. Mayne. il Foundry 52:6-10 Ja 1 '24

Managing steel foundries. R. A. Bull. Foundry 53:431-3, 476-9 Je 1-15 '25; Same abr. Mech Eng 47:653-7 Ag '25; Abstract. Iron Age 115:1711 Je 11 '25; Discussion. Mech Eng 47:656-7 Ag '25

Mechanical aids suggested. R. O. Patterson. Foundry 52:560-1 Jl 15 '24

Meeting the new competition. il Foundry 52: 747-51 O 1 '24

New system brings order from chaos; patterns classified under simple plan. il Foundry 53:473-5 Je 15 '25

Organization for better foundry practice. Iron Age 114:1552-4 D 11 '24; Same. Brass W 21: 21-3 Ja '25

Production schedule aids steel foundry sales. B. Ulehake. il Foundry 53:49-51 Ja 15 '25

Reclaiming brass foundry sands. F. L. Wolf and A. A. Grubb. Metal Ind 22:438-41 N '24; Same. Foundry 53:116-19 F 1 '25

Solving problems in small plant. W. C. Trout. Iron Tr R 74:858-9 Mr 27 '24; Same cond. Foundry 52:343-4 My 1 '24

Stand pat on price. H. P. Keller. Foundry 53: 201-2 Mr 1 '25

Standard time system established by the Westinghouse electric & mfg. co., East Pittsburgh, Pa. Foundry 51:947-9 D 1 '23; Same. Iron Tr R 74:1370-2 My 22 '24

Study savings made by trucks in foundry. il Foundry 51:941-3 D 1 '23; Same. Iron Tr R 74:479-81 F 14 '24

Surprising profits from small savings. C. C. Chesney. il Factory 31:595-8+ N '23; Same. Brass W 19:391-4 D '23

Systematizing foundry production. G. L. Lacher. Iron Age 116:527-9 Ag 27 '25

Technical control has place. F. L. Wolf. Foundry 51:991-2 D 15 '23

Ten small savings often net us more than one large one. C. C. Chesney. il Brass W 20: 39-42 F '24; Same. Factory 32:159-61 F '24

When buying castings—you should know how design affects product, etc. W. J. Corbett. Iron Tr R 76:282-4 Ja 22 '25; Same. Foundry 53:181-5 Mr 1 '25

Wie kommen wir zu einer einheitlichen akkordbestimmung in der giesserei? H. Resow. Stahl & Eisen 44:1363-70 O 30 '24

With my small establishment I have practically no overhead. W. D. Stowe. Iron Tr R 77:742-3 S 24 '25; Same. Foundry 53:719-20+ S 15 '25

See also Foundries—Employees; Foundries—Equipment; Foundries—Safety devices and measures; Foundry practice; Molding machines; Pattern making; Pattern storage; *also* American cast iron pipe company

FOUNDRY practice

Are porous castings caused by gates and risers? H. Miller. Foundry 53:180 Mr 1 '25

Bedding-in method of molding. M. E. Duggan. diags Mach 30:252 D '23

Better foundry practice. Iron Age 114:1334-7, 1552-4 N 20, D 11 '24

Cadillac runs tidy coreroom. il Foundry 53: 721-4+ S 15 '25

Cast bronze memorial figure. P. Dwyer. il Foundry 52:499-505 Jl 1 '24

Casting crown brasses and hub plates in place. F. H. Colvin. il Am Mach 59:479-80 S 27 '23; Discussion. 59:729-31; 60:60, 143-4, 176, 234, 328 N 15 '23, Ja 10, 24-31, F 14, 28 '24

Casting is made and gated like bath tub. diags Foundry 52:317 Ap 15 '24

Casting lead alloys in endless strips. il Mach 30:610-12 Ap '24; Abstract. Brass W 20: 282 Ag '24

Casting manganese steel. H. E. Diller. il Foundry 52:245-9, 298-302 Ap 1-15 '24

Casting metals; methods of eliminating troubles with manganese bronze, nickel alloy and bearings. W. J. Reardon. diags Metal Ind 23:409-10 O '25

Casting railroad bearings. G. H. Clamer. il chart Foundry 53:791-4, 829-32, 886-90 O 1-N 1 '25

Cheating the scrap pile. W: J. Hubert. 151p W: J. Hubert, Morgantown, W.Va. '25

FOUNDRY practice—*Continued*
Cutting process greatly improves foundry practice. il Blast F & Steel Pl 13:177-8 Ap '25
Describes bell founding. W. Lambert and G: Hall. Foundry 52:885-7, 924-6, 978-9 N 15-D 15 '24
Efficient casting design. F. C. Edwards. Engineering 117:423 Ap 4 '24; Same. Automotive Ind 50:921 Ap 24 '24
Extending uses of oil sand cores. F. C. Edwards. diags Foundry 53:651-3+ Ag 15 '25
Filter gates for forge iron castings. diags Foundry 52:277 Ap 1 '24
Foundries of automobile builder; Cadillac plant houses iron, aluminum and brass units together. F. L. Prentiss. il plan Iron Age 115:1035-40, 1199-1202 Ap 9, 23 '25
Foundry refinements reduce auto costs. A. Weber. il Foundry 53:178-9+ Mr 1 '25
Foundry work without drudgery. il diag Am Mach 62:64-5 Ja 8 '25
Foundrymen foster world unity. H. C. Estep. Foundry 52:853-8 N 1 '24; Same abr. Iron Tr R 75:1084-6 O 23 '24
How Cadillac operates its aluminum shop. il Foundry 53:690-3 S 1 '25
Improvement of foundry practice with the aid of X-rays. Engineer 139:sup7-8 Ja 30 '25
Industry on the African Rand. G: W. Carson. il Foundry 52:1-5 Ja 1 '24
Large turbine exhaust hood castings made. J. M. Sampson. il Foundry 53:223-6+ Mr 15 '25
Make electric steel in South; plant of Dibert, Bancroft & Ross co., ltd., New Orleans. il Foundry 52:312-15 Ap 15 '24; Same. Iron Tr R 74:913-16 Ap 3 '24
Make heavy machine parts. P. Dwyer. il plan Foundry 52:179-84+, 221-5+ Mr 1-15 '24
Makes castings for waterworks; Ludlow valve co., Troy, N.Y. il diag Foundry 53: 350-5 My 1 '25
Makes heavy turbine casing. J. Shaw. il Foundry 52:776-8 O 1 '24
Makes machine tool castings. P. Dwyer. il Foundry 52:957-62 D 15 '24
Making good castings better. E. V. Ronceray. diags Foundry 52:476-7 Je 15 '24
Making large strainer cover molds. J. J. Zimmerman. il diags Foundry 52:603-5 Ag 1 '24
Making locomotive castings. H. E. Diller. il Foundry 52:53-60, 88-95, 137-42 Ja 15-F 15 '24
Making textile machine parts. H. R. Simonds. il Foundry 52:537-41 Jl 15 '24
Making transformer castings. P. Dwyer. il Foundry 52:81-5 F 1 '24
Method for jointing a branch core end. J. Edgar. diag Foundry 52:829 O 15 '24
Methods for casting test specimens of gun metal. E. H. Dix, jr. il diags Am Soc T M Pro 23 pt 2:130-40; Discussion. 141-9 '23
Mixes sand mechanically. M. Sklovsky. il diag Foundry 53:882-5 N 1 '25
Die modellplatte. A. Haug. diags Stahl & Eisen 45:1301-6 Jl 30 '25
Modern automobile foundry practice. P. Pritchard. il Automobile Eng 14:84-91 Mr '24
Molding a propeller in loam. L. V. Johnston. diag Foundry 52:446-8 Je 1 '24
Molding of small flanged tubes. R. E. Search. diags Metal Ind 21:435-7 N '23
Molds emergency worm wheel. J. Edgar. diags Foundry 53:454-5 Je 1 '25
New England shops test pet theories; competition between five foundries to produce a perfect casting. il Foundry 52:943-4 D 1 '24
One piece crown brasses eliminate waste. M. F. Cox. il diag Ry Mech Eng 98:693 N '24
Pie for the trouble shooter. J. A. Murphy. diag Foundry 53:839-40 O 15 '25
Producing cores in quantities. H. R. Simonds. il Foundry 52:797-800 O 15 '24
Producing deaerator shells. J. J. Zimmerman. il diags Foundry 53:77-9 Ja 15 '25
Producing high test castings. il Foundry 52: 681-3 S 1 '24
Production equipment in iron foundries. il diag Iron Age 115:969-71 Ap 2 '25
Proportioning and shaping of sink heads. J: H. Hall. Iron Age 114:822-3 O 2 '24
Ring core helps mold multiple teeth. M. E. Duggan. diags plan Foundry 51:990 D 15 '23
Sand casting monel metal. il Metal Ind 23:55-6 F '25
Simplifies molding practice. J. H. Eastham. diags plan Foundry 51:923-4 N 15 '23
Skimmer core reduces steel foundry losses. J. H. Crawley. il Foundry 53:743-4 S 15 '25
Slush castings. Metal Ind 23:283 Jl '25
Some foundry problems; general difficulties in casting metals and alloys as met in British practice. A. H. Mundey. Metal Ind 22:104-7 Mr '24
Specializes manganese steel. H. E. Diller. il plan Foundry 51:891-7 N 15 '23; Same. Iron Tr R 73:1672-7 D 20 '23
Speeds production of heavy molds for electrical castings. P. Dwyer. il diag Foundry 53:307-10 Ap 15 '25
Spindles are molded in cores. diag Foundry 52:445 Je 1 '24
Steel foundry practice at Schenectady. L. S. Love. il Iron Age 114:815-19 O 2 '24
Steel foundry sessions of the A.F.A. Iron Age 114:1056-8 O 23 '24
Studebaker opens new shop. P. Dwyer. il Foundry 52:889-93+ N 15 '24
Technischer hauptausschuss für giessereiwesen. Stahl & Eisen 44:1783-90 D 25 '24
Typical analyses of miscellaneous commodities used in foundry practice; miscellaneous materials. J. M. Quinn. Foundry 52:822a, 852a, 888a, 930a, 970a; 53:18a O 15 '24-Ja 1 '25
Typical analyses of miscellaneous commodities used in foundry practice; oxidizing agents. Foundry 52:634a Ag 15 '24
Typical analyses of miscellaneous commodities used in foundry practice; refractories. J. M. Quinn. Foundry 52:688a, 720a, 776a S 1-O 1 '24
Use special molding machines for farm castings. P. Dwyer. il Foundry 53:345-8 My 1 '25
Valve castings made in steel. P. Dwyer. il diag Foundry 52:579-83+ Ag 1 '24
Die vierte giessereifachausstellung in Düsseldorf. C. Irresberger. il Stahl & Eisen 45: 1666-70, 1809-15, 2009-13 O 1, 29-D 3 '25
Who is responsible for porous castings? J. A. Murphy. diags Foundry 53:371-3 My 1 '25

See also Aluminum bronze; Aluminum founding; Annealing; Brass founding; Bronze founding; Cast iron; Casting, Centrifugal; Castings—Cleaning; Chilled iron; Copper founding; Core baking; Cupola furnaces; Die casting; Electric furnaces, Foundry; Fillets, Foundry; Foundries; Foundry machinery; Furnaces, Foundry; Furnaces, Iron founding; Iron founding; Iron metallurgy; Magnesium founding; Molding machines; Molds (for casting); Pattern making; Pickling (metals); Pig iron; Sand, Foundry; Steel castings; Type and type founding

Study and teaching

Apprentice course is established at the boys' vocational school, Newark, N.J. il Iron Tr R 75:413-14 Ag 14 '24
Boys compete for A.F.A. prize. il Foundry 53: 54-5 Ja 15 '25; Same. Iron Tr R 76:351-2 Ja 29 '25
French set up foundry school. V. Delport. il Foundry 52:250-2 Ap 1 '24; Same. Iron Tr R 74:992-4 Ap 10 '24
How Mesta makes molders. R. A. Peebles. Foundry 52:881-4 N 15 '24; Same. Iron Tr R 75:1570-2+ D 11 '24

See also Foundries—Employees

FOUNDRY records
Controlling brass shop detail. F. W. Rowe. Foundry 52:226-9 Mr 15 '24
Production schedule aids steel foundry sales. B. Ulehake. il Foundry 53:49-51 Ja 15 '25

FOUNDRY research
Investigates many foundry problems. J. G. Pearce. Foundry 52:588 Ag 1 '24
Steel foundries need research. E. R. Young. Foundry 53:14-15 Ja 1 '25

FOUNDRY sand. See Sand, Foundry

FOUNTAIN pens

When a satellite market is worth going after; Sheaffer pen college campaign. M. Hastings, jr. Ptr Ink 133:139-40+ O 1 '25

FOUNTAINS

Electric fountains. il Electrician 94:249 F 27 '25

Electricity in decorative art and applied industry; Paris international exhibition. T. Rich. il Elec R (Lond) 97:524-6 O 2 '25

Italian renaissance details. il diags plans Arch Forum 39:23-5, 175-8, 281-2 Jl, O, D '23

Pan-chromatic illuminated fountain, Dallas, Tex. il Gen Elec R 28:349 My '25

See also Drinking fountains

FOURDRINIER wire

Story of Fourdrinier wires. G. E. Buchanan. Paper 33:7-8+ N 22 '23

FOURIER'S series

Practical treatise on Fourier's theorem and harmonic analysis for physicists and engineers. A. Eagle. 178p Longmans '25

FOURTH dimension

Is time the fourth dimension? N: P. Rashevsky. il Sci Am 131:400-2+ D '24

FOWEY, England

Harbor

Fowey. J: P. Carter. il map Chem Age (Lond) 10:sup14-15 F 16; sup14-15 Mr 15 '24

Future of Fowey. il Chem Age (Lond) 11:sup 9-10 D 20 '24

G.W.R. and Fowey. Chem Age (Lond) 12:sup 10 Ja 17 '25

New china clay jetty at Fowey. il diags Engineer 137:195-6, 202 F 22 '24

FRACTIONATING columns. See Distillation apparatus

FRACTIONS, Continued

Application of continued fractions to dividing-head problems. W. Stainsby. Am Mach 63: 25-6 Jl 2 '25; Discussion. C: Kugler. 63:668-9 O 22 '25

Application of continued fractions to gear-cutting problems. R. B. Willis. Am Mach 63:400-1 S 3 '25

FRAMERICAN industrial development corporation

Attractive exchange. Moody's Inv Serv 17:96 Mr 19 '25

FRAMING (building)

Building frames made of oxyactylene welded pipe. D. C. McGiehan. il diags Eng N 93: 878 N 27 '24

Framing wooden joists to steel beams. Eng & Contr (Bldgs) 61:482 F 27 '24

Pin-connected pipe forms structural elements for small building. diags Eng N 93:966-7 D 11 '24

Rigid concrete frames for long spans. il Concrete 26:201-2 Je '25

See also Roofs

FRAMINGHAM, Massachusetts

Sewerage

Recent additions to the sewerage system and disposal works of Framingham, Mass. F. W. Haley. il diags plans Boston Soc C E J 12:253-75 Je '25; Abstract. Pub Works 56: 359-60 O '25

FRAMINGHAM community health and tuberculosis demonstration

Summary of Framingham' health demonstration. Nation's Health 6:864-7 D '24

FRANCE

See also Advertising—France; Aeronautics—France; Aeronautics, Commercial—France; Architecture—France; Architecture, Domestic—France; Brittany; Budget—France; Electric industries—France; Electric lines—France; Electricity supply—France; Finance—France; Floods—France; Hydroelectric plants—France; Insurance companies—France; Miners—France; Radio stations—France; Railroads—France; Street railroads—France; Taxation—France; Waterways—France

Air service

Organization of the French air services. il Aviation 19:674-5 N 9 '25

Colonies

Combustibles et carburants coloniaux. R. Fouque. Génie Civil 85:296-8, 315-18 O 4-11 '24

France to-day and her colonies. P. H. Middleton. Am Ind 25:17-19 S '24

French possessions in tropical Africa. E. A. Welden. U S Bur For & Dom Com Trade Information Bul 239:1-22 '24

Commerce

Balance of trade in France and Germany. Economist 100:796-7 Ap 25 '25

Le commerce extérieur de la France en 1924. Génie Civil 87:69-70 Jl 18 '25

Le Congrès national des conseillers du commerce extérieur. R. P. Duchemin. Chimie & Ind 12:1121-31 D '24

Foreign commerce of France in November and for the eleven months ended with November, 1923. Econ W n s 27:123-4 Ja 26 '24

Foreign commerce of France in the first nine months of 1925. Econ W n s 30:591 O 24 '25

Foreign trade of France during eleven months of 1924. Comm & Fin Chr 120:278 Ja 17 '25

Franco-American trade, 1921, 1922, and 1923. D: S. Green. U S Bur For & Dom Com Trade Information Bul 227:1-13 '24

French foreign trade improving. Am Mach 60: 72e Ja 10 '24

How to go about getting business in France. A. Wiesenberger. il System 48:55-9+ Jl '25

Organisation de la vente à l'étranger. J. Parmentier. Chimie & Ind 12:371-8 Ag '24

Les organismes officiels d'expansion commerciale. C. Charmeil. Chimie & Ind 12:161-4 Jl '24

Sources of modern business principles and practice; Savary's Le parfait négociant. A. P. Usher. Harvard Business R 3:275-86 Ap '25

See also Coal trade—France; Cotton trade—France; Lumber trade—France; Tariff—France

Commercial policy

Commercial policy in the French revolution. F: L: Nussbaum. 388p Am. historical assn., Washington '23

Defenses

Les dangers d'une attaque aéro-chimique Russo-Allemande. A. Michelin. Chimie & Ind 13:325-30 F '25

Description and travel

Architect's auto tour of France. O. Z. Cervin. il diag Am Arch 128:211-15 S 9 '25

Economic conditions

Business improves in France. Am Mach 62: 520b Mr 26 '25

Contrast between private prosperity and embarrassed public finance in France. J: R. Ellingston. Econ W n s 29:908-10 Je 27 '25

Decline of the exchange value of the franc in relation to the actual economic situation in France. A. R. Marsh. Econ W n s 27: 75-6 Ja 19 '24

Economic and industrial condition of France. F. C. Chappell. Annalist 22:795-6 D 17 '23

Economic conditions in France. Elec R (Lond) 95:412-14 S 12 '24

Economic conditions in France as affected by the recovery of the franc. Econ W n s 27: 729-30 My 24 '24

Economic progress in France. Bradstreet's 53: 209 Mr 28 '25

Effects of German reparations payments upon the national economy of France. E. L. James. Econ W n s 28:114-16 Jl 26 '24; Same. Am Bankers Assn J 17:23-4+ Jl '24

Effects upon French industry of the recent fluctuations of the exchange value of the franc. C. L. Jones. Econ W n s 28:233-4 Ag 16 '24

Financial and economic conditions in France. Bradstreet's 52:141-2 Mr 1 '24

FRANCE—Economic conditions—*Continued*
Financial burden supported by the French people since the war. E. Daeschner. Econ W n s 29:595 Ap 25 '25
Flotation of the new French $100,000,000 loan in the United States. Econ W n s 28:775 N 29 '24
France discusses its industries. Am Mach 61: 904c D 4 '24
France—facts vs. rumors. Moody's Inv Serv 17:133-6 Ap 16 '25
France—its present attitude toward Germany and its reconstruction achievements. E. J. Mehren. il Coal Age 26:439-40 S 25 '24; Same cond. Eng & Min J 118:444 S 20 '24
France prepares for further prosperity. Am Mach 61:442c S 11 '24
French economic situation today. Am Mach 60:196g Ja 31 '24
French industries and the Dawes plan. Am Mach 61:714e O 30 '24
French wealth in foreign and domestic securities. Comm & Fin Chr 121:787-8 Ag 15 '25
Frightened franc. Comm & Fin 14:334-5 F 18 '25
Gradual improvement in French industries. Am Mach 60:868c Je 5 '24
New problems for France to face. Am Mach 62:182b Ja 22 '25
Present industrial position of France. Engineering 118:332-3 S 5 '24
Present industrial situation in France. Econ W n s 30:550-1 O 17 '25
State of France. Economist 99:373-4 S 6 '24
Will the franc and the lira follow the mark? S: Crowther. il System 45:491-3+ Ap '24; Same. Am Ind 24:34-8 Ap '24

See also Bonds, Government—France; Budget—France; Debts, Public—France; Finance—France; France—National economic council; Labor and laboring classes—France; Money—France; Reconstruction (European war)—France; Wages—France

Economic policy

Le régionalisme économique. M. Lambert. Chimie & Ind 13:862-5 My '25

Foreign relations

French opinion and American aloofness. M. de Valette. Bankers M 108:245-7+ F '24

See also Ruhr valley—French occupation

Germany

Les accords franco-allemands. H: Lichtenberger. Chimie & Ind 12:951-7 N '24

Russia

France recognizes Russian Soviet government. Comm & Fin Chr 119:2021-2 N 1 '24

Industries and resources

La crise de la "vie chère." C: Lambert. Soc Ing Civils Bul 77:33-86 Ja '24

Le développement des industries françaises avec les chemins de fer et la navigation à vapeur; la construction des ports modernes et leur exploitation. G. Hersent. Soc Ing Civils Bul 78:1-36 Ja '25

Economic and industrial condition of France. F. C. Chappell. Annalist 22:795-6 D 17 '23

See also Cement industry and trade—France; Chemical industries—France; Coal mines and mining—France; Coal supply—France; Coal trade—France; Dye industry—France; Electric industries—France; Electric lines—France; Electricity supply—France; Gas industry—France; Hydroelectric plants—France; Iron industry and trade—France; Iron ores—France; Machine tool industry—France; Machinery industry—France; Metal trade—France; Oil industries—France; Paper industry and trade—France; Petroleum—France; Petroleum industry and trade—France; Silk manufacture and trade—France; Steel industry and trade—France; Steel works—France; Textile industry—France; Water power—France; Wine; Wool trade—France

Maps

Les nouvelles cartes de France aux échelles de 1/20 000 et de 1/50 000. A. Bidault des Chaumes. maps Génie Civil 84:125-8, pl 3 F 9 '24

Les procédés d'exécution des nouvelles cartes de France. A. Bidault des Chaumes. il maps Génie Civil 84:149-56 F 16 '24

National economic council

Creation of a National economic council in France. Monthly Labor R 20:488-90 Mr '25

German and French national economic councils. R. Picard. Int Labour R 11:803-29 Je '25

Navy

Bill for reorganizing the French dockyards. Engineering 117:613 My 9 '24

French naval building programme. Engineering 117:211 F 15 '24

French naval construction. il Engineer 138:578 N 21 '24

French naval renaissance. Engineer 140:407-8 O 16 '25

French navy. Engineering 117:393 Mr 28 '24

Politics and government

New French cabinet in succession to defeated Herriot government—bill increasing limit of circulation of Bank of France passed. Comm & Fin Chr 120:1957-61 Ap 18 '25

Political overturn in France. N. Roosevelt. Annalist 23:583+ My 19 '24

Public works

Le Ve Congrès national des travaux publics (Paris, 8-10 décembre 1924). Génie Civil 85: 603-5 D 27 '24

French public works conditions disturb contractors. Eng N 92:758 My 1 '24

FRANCHISES

See Public utilities—Franchises; Street railroads—Franchises

FRANCISCAN missions. See Mission buildings (Spanish)

FRANKFORT, Germany

Water supply

Producing artificial ground water at Frankfort, Germany. Dr. Scheelhaase and G. M. Fair. diags Eng N 93:174-6 Jl 31 '24

FRANKING

Machine Havas pour affranchir les correspondances, système Tiranty. il Génie Civil 84: 576-7 Je 14 '24

FRANKLIN, Benjamin, 1706-1790

Benjamin Franklin—the man and the printer. J. B. Arnold. Inland Ptr 74:529-33 Ja '25

Forty-nine achievements in thrift. Am Bankers Assn J 16:415-17 Ja '24

Honors Benjamin Franklin. B. F. Affleck. W Soc E J 29:[current news]32-3 F '24

How Franklin fostered industrial education. Inland Ptr 74:555-6 Ja '25

Portrait, by H: Raschen. Inland Ptr 74:528a Ja '25

FRANKLIN, Edward C.

Dr E. C. Franklin gets Nichols medal for 1924. por Oil Paint & Drug Rep 107:20 Mr 9 '25

FRANKLIN Furnace, New Jersey

See also Geology—New Jersey

FRANKLIN institute

Centenary. Am Mach 61:522c S 25 '24; Chem & Met Eng 31:492-5 S 29 '24; Elec W 84: 698 S 27 '24; Eng N 93:520 S 25 '24; Power 60:552-4 S 30 '24

Centenary of the founding of the Franklin institute. E. Thomson. J Fr Inst 198:581-98 N '24

For the promotion of the mechanic arts. W: C. L. Eglin. il Am Mach 61:523-4 O 2 '24

FRANKLIN medal

Presentation of the Franklin medal and certificate of honorary membership. J Fr Inst 196:803-20 D '23

FRANKLIN medal—*Continued*
Presentation of the Franklin medal and certificate of honorary membership to Dr Pieter Zeeman and Dr Elihu Thomson. J Fr Inst 200:365-76 S '25

FRANKLIN SIMON & company, New York
Why Franklin Simon sells nationally. Ptr Ink 128:132 S 18 '24

FRANKLIN society for home-building and savings
With heart and soul in savings. J. H. Collins. il Burroughs Clearing House 9:17-18+ My '25

FRASCATI, Italy
Architecture
Villa Mondragone at Frascati. J. Chillman, jr. il plan Am Inst Arch J 12:211-18 My '24

FRATERNAL orders. See Benefit societies

FRATERNITY clubs building, New York
Fraternity clubs building, New York. il diags plans Arch Forum 41:9-16, pl 1-8 Jl '24; Eng & Contr (Bldgs) 62:185-9 Jl 23 '24; Arch & Bldg 56:76-8, pl 158-60 Ag '24

FRATERNITY houses
Greek letter fraternity house architecture. O. C. Hering. il plans Arch Forum 40:97-100 Mr '24

FRAUD
Beware of publicity grafter. L. St Clair. Aera 13:1882-5 Je '25
Brotherhood of the elastic conscience. H. J. Donnelly. Ptr Ink 133:73-4+ O 1 '25
Corsairs of credit. F. S. Tisdale. il Nation's Business 13:52+ Mr '25
Credit frauds. 31p Am. Inst. of accountants, 135 Cedar st., New York '25
D.A. and credit men co-operate and 81 defrauders are convicted. J. H. Banton. Credit M 26:17-18 Jl '24
Detecting frauds by paper testing. T: J. Keenan. Paper 34:518 Jl 10 '24
Habit of conviction. E. R. Buckner. Credit M 27:7-8 My '25
Investigate first—charities as well as investments. R. Dickinson. Ptr Ink 130:121-2+ Mr 5 '25
New styles in credit crime. G. W. Cotter. Credit M 27:11+ F '25
Story of Joseph—second phase. C. D. West. Credit M 26:22+ Mr '24
Three billions for business crime. R. T. Griebling. Comm & Fin 13:1987-8 O 15 '24
War opens on the credit crook. W: H. Pouch. Am Ind 25:17-18 Ap '25

See also Advertising, Fraudulent; Bribery, Commercial; Competition, Unfair; Forgery; Mine salting; Misbranding; Promoters, Fraudulent; Swindlers and swindling

FRAUDULENT advertising. See Advertising, Fraudulent

FRAZIL ice. See Hydroelectric plants—Ice protection

FREE energy
Ammonia, carbon, hydrogen cyanide, hydrogen equilibrium and free energy of hydrogen cyanide. R: M. Badger. diag Am Chem Soc J 46:2166-72 O '24
Electrode potentials and the free energy of solvation. J. Heyrovský. J Phys Chem 29: 406-9 Ap '25
Free energy and heat content of arsenic trioxide and the reduction potential of arsenic. R. Schuhmann. Am Chem Soc J 46:1444-9 Je '24
Free energy and heat content of tellurium dioxide and of amorphous and metallic tellurium; the reduction potential of tellurium. R. Schuhmann. Am Chem Soc J 47:356-63 F '25
Free energy of antimony trioxide and the reduction potential of antimony. R. Schuhmann. diags Am Chem Soc J 46:52-8 Ja '24
Free energy of aqueous sulfuric acid. D: F. Smith and J. E. Mayer. Am Chem Soc J 46:75-83 Ja '24
Free energy of dilution and the activity of the ions in aqueous solutions of barium chloride. J. N. Pearce and R. W. Gelbach. J Phys Chem 29:1023-30 Ag '25
Free energy of dilution and the activity of the ions of hydrogen iodide in aqueous solution. J. N. Pearce and A. R. Fortsch. Am Chem Soc J 45:2852-7 D '23
Free energy of sulfuric acid in aqueous sulfate solutions. H. S. Harned and R. D. Sturgis. Am Chem Soc J 47:945-53 Ap '25
Thermal data on organic compounds; the heat capacities and free energies of methyl, ethyl and normal-butyl alcohols. G: S. Parks. Am Chem Soc J 47:338-45 F '25
Thermal data on organic compounds; the heat capacities of five organic compounds: the entropies and free energies of some homologous series of aliphatic compounds. G: S. Parks and K. K. Kelley. Am Chem Soc J 47:2089-97 Ag '25

FREE on board. See F. O. B.

FREE speech
Conviction of Benjamin Gitlow under New York anarchy law upheld by United States Supreme court. Comm & Fin Chr 120:3143 Je 20 '25

FREE trade and protection
Free trade and peace in the nineteenth century. H. Bosanquet. 155p Putnam '24
Reports of the Fiscal inquiry committee: Irish Free State. R. N. Tweedy. Elec R (Lond) 94:170-1 F 1 '24

See also Dumping (commercial policy); Great Britain—Commercial policy; Tariff

Free trade
Battle for free trade. J: M. Robertson. 32p The Cobden club, Westminster '23
Protection and world trade. Economist 101:332-3 Ag 29 '25
Retrospect of free-trade doctrine. W: Ashley. Econ J 34:501-39 D '24
Retrospect of free-trade doctrine. A. A. Mitchell. Econ J 35:214-20 Je '25
Truth about protection. Economist 100:180-1 Ja 31 '25
Vindication of free trade. Economist 99:225-6 Ag 9 '24

Protection
Experiments in protection. W. J. U. Woolcock. Soc Chem Ind J (Chem & Ind) 43: 1104-6 N 7 '24
South and the tariff. J: H. Kirby. Textile World 67:2713-14 Ap 18 '25
South voices a strong demand for a protective tariff. Manuf Rec 87:67-74 Mr 26 '25
Why the South needs a protective tariff. R. H. Edmonds. Manuf Rec 88:65-7 O 29 '25

FREEBOARD. See Load line

FREEDOM of association. See Association and associations

FREEDOM of the press
Freedom of the press. S: A. Dawson. 120p [bibliog. p. 118-20] Columbia univ. press, New York '24

Bibliography
William L. Sayer collection of books and pamphlets relating to printing, newspapers, and freedom of the press. 2v Free public library, New Bedford, Mass. '14-'20

FREEDOM of the seas
Freedom of the seas in history, law, and politics. P. B. Potter. 299p Longmans '24

FREEMAN, James Edward
Business man that became a bishop. J. B. Morrow. por Nation's Business 12:22-4 My '24

FREEMAN, Milton H.
Milton H. Freeman, Holland tunnel engineer, dead. Eng N 94:575 Ap 2 '25

FREEPORT Texas company
Facts for the stockholder. Eng & Min J 117: 831 My 17 '24

FREEZING

Ice plug for water trouble. E. J. Munger. diags Refrig Eng 10:168-9 N '23

Modern fish freezing. P. W. Petersen. Refrig W 59:13-19 S '24

Precautions against freezing of fire extinguishing appliances. il Safety Eng 46:243-5, 297 N-D '23

Thermal exchange in the freezing and hardening of ice cream. H. F. Zoller. il charts Refrig Eng 11:66-9 Ag '24

See also Fish, Frozen; Hydroelectric plants—Ice protection; Ice; Ice—Manufacture; Refrigeration and refrigerating machinery

FREEZING points

Activities of strong electrolytes; a revision of the activity coefficients of potassium, sodium, and lithium chlorides, and potassium hydroxide. G: Scatchard. Am Chem Soc J 47:648-61 Mr '25

Activity coefficients of dilute aqueous solutions of hydrogen chloride, thallous chloride and lead nitrate. M. Randall and A. P. Vanselow. diags Am Chem Soc J 46:2418-37 N '24

Additive compounds in the ternary system: ester—acid—water. J. Kendall and C. V: King. Chem Soc J 127:1778-91 Ag '25

Analysis of mixed salts by freezing point method. H. E. Batsford. Ind & Eng Chem 15:1272-3 D '23

Cryoscopic measurements with benzene. E: R: Jones and C: R. Bury. Chem Soc J 127:1947-51 S '25

Cryoscopic measurements with nitrobenzene; equilibrium in nitrobenzene solution. F: S. Brown. Chem Soc J 127:345-8 F '25

Cryoscopic measurements with nitrobenzene; the variation of the molecular depression with water content. F: S. Brown and C: R. Bury. Chem Soc J 125:2219-26 N '24

Cryoscopic method for adsorption. H: L. Richardson and P. W. Robertson. Chem Soc J 127:553-6 Mr '25

Freezing of water in capillary systems; a critical discussion. E. A. Fisher. J Phys Chem 28:360-7 Ap '24

Freezing point curve of the system water-ammonia. L: D. Elliott. J Phys Chem 28: 887-8 Ag '24

Freezing-point curves of binary mixtures of some substituted acetanilides. G. Owen. Chem Soc J 123:3392-7 D '23

Freezing-point of para dichlor benzol. Chem Rec Age 23:7 My 11 '25

Freezing point of weak aldehyde solutions. T. P. G. Shaw. Can Chem & Met 9:141 Je '25

Freezing points of glycerol and its aqueous solutions. L. B. Lane. Ind & Eng Chem 17: 924 S '25

Freezing points of hydrofluoric acid. J: D: C. Anthony and L. J: Hudleston. Chem Soc J 127:1122-8 My '25

Freezing points of very dilute solutions of electrolytes. F. Hovorka and W. H. Rodebush. diag Am Chem Soc J 47:1614-24 Je '25

Freezing temperatures of some fruits, vegetables and cut flowers. R. C. Wright and G: F. Taylor. Refrig Eng 11:268-70 Ja '25

Heat and change of state. Am Gas J 122:353, 373 Ap 25-My 2 '25

Hydration of salts and their effect on the vapour pressure of water. N. V. Sidgwick and E. K. Ewbank. Chem Soc J 125:2273-5 N '24

Influence of pressure on the freezing point of *p*-nitrotoluene, *m*-dinitrobenzene and guaiacol. N. A. Pushin. diag Chem Soc J 125:2628-30 D '24

Measurement of the vapour pressures of aqueous salt solutions by the depression of the freezing point of nitrobenzene. N. V. Sidgwick and E. K. Ewbank. Chem Soc J 125:2268-73 N '24

Melting and freezing points of pure substances and of eutectic mixtures. E: W. Washburn. diag Ind & Eng Chem 16:275 Mr '24

Molecular lowering of the freezing point of liquid ammonia. L: D. Elliott. charts diags J Phys Chem 28:611-35 Je '24

Preparation, freezing point and vapor pressure of hydrogen fluoride. J. Simons. diags Am Chem Soc J 46:2179-83 O '24

Solubility relations of isomeric organic compounds; the determination of freezing temperatures of binary mixtures. D. H. Andrews, G. T. Kohman and J: Johnston. diags J Phys Chem 29:914-25 Ag '25

Value of cryoscopy in the technical investigation of varnishes. H. E. Hofmann. Ind & Eng Chem 17:175-6 F '25

FREIGHT, Perishable

Carload damage as effected by delay to fruit and vegetables and livestock. W. F. Thiehoff. Ry Age 78:1399-1401 Je 6 '25

Getting the melons out of Imperial valley. C. W. Runge. Ry R 77:698-9 N 7 '25

Handling cantaloupes. Ry Age 79:723 O 17 '25

Railway car index. Refrig Eng 11:406-8 My '25

Solving the problem of handling perishables. Ry Age 79:502 S 19 '25

Transportation of perishable freight. G. H. Nelson. W Soc E J 29:23-6; Discussion. 26-7 Ja '24

See also Fruit—Transportation; Railroads—Ice supply; Refrigerator cars; Vegetables—Transportation

FREIGHT and freightage

See Bills of lading; Demurrage; Electric railroads—Freight; Freight cars; Freight handling; Freight ships; Railroads—Freight; Railroads—Rates; Shipment of goods; Shipping; Ships—Cargo; Storage; Tonnage; Transportation

FREIGHT car service

Assigned car order reaffirmed. Ry Age 78:227-8 Ja 17 '25

Car service division submits summary of the year's records. Ry R 75:850-1 N 22 '24

Car service record; automobile car travels 48,969 miles. C. B. Strohm. il Ry Age 76: 466 F 23 '24

Economizing the time of the way freight train. E. F. Ford. Ry Age 75:1209-10 D 29 '23

Elementary lesson in car utilization. R. B. Croll. Ry R 75:1036-8 D 27 '24

Freight allowed to seaboard—what transportation in the U.S. means. L. O. Welcome. il Dun's Int R 44:54-6 N '24

Freight car delays in classification yards. Ry R 73:804-7 D 1 '23

Freight car distribution in the United States. L. M. Betts. Ry Age 75:1205-6 D 29 '23

Freight car loading. Published in weekly numbers of Railway age

Higher utilization of freight cars. C. B. Fletcher. Ry R 76:186-9 Ja 24 '25

How Great Western makes record in average daily car miles. R. B. Croll. Ry R 76: 1186 Je 20 '25

How the shipper can improve railroad service. M. C. Fitzgerald. Ry R 77:621-2 O 24 '25

Improved distribution pays big dividends to industry. E. L. Shaner. il Iron Tr R 76:443-5+ F 12 '25

Nationwide distribution of cars. M. J. Gormley. Ry Age 78:1643 Je 27 '25

New records for transportation performance. Ry Age 76:19-21 Ja 5 '24

New records in transportation service set by railroads the current year. Comm & Fin Chr 117:2063 N 10 '23; Same abr. Ry R 73: 740 N 17 '23

New transportation records. H. F. Lane. Ry Age 78:34-6 Ja 3 '25

Observance of car service rules. M. J. Gormley. Ry Age 78:988-91 Ap 18 '25

Railroad freight car loadings of one million cars a week for twenty-one weeks. Comm & Fin Chr 117:2269 N 24 '23

Regional shippers' advisory boards praise transportation service. Ry Age 77:848-50 N 8 '24

Revenue freight car loading; car service division estimates increase of 2.2 per cent in first three months of 1925. Ry Age 78:192-3 Ja 10 '25

FREIGHT car service—*Continued*
Shipping service cuts freight costs. E. C. Kreutzberg. il Iron Tr R 73:1670-1+ D 20 '23
Southern Pacific makes new record in coal loadings. Ry R 75:217 Ag 9 '24
Steel makers lose in assigned car case. Iron Age 115:197-8 Ja 15 '25
Supplying clean cars for loading. Ry R 75:247 Ag 16 '24
Testimony completed in assigned-car rehearing; oral argument set for Dec. 17-19. Coal Age 24:713 N 8 '23
Time factor in transportation. C: E. Lee. Ry Age 76:1133-5 My 10 '24
Transportation service and car supply. 43p American railroad assn., 718 18th St., N.W., Washington, D.C. '24
Transportation—yesterday and today. A. G. T. Moore. Manuf Rec 88:97-8 O 1 '25
True improvement of freight service. Ry Age 79:548-9 S 26 '25
Two years of complete transportation service. D. D. Conn. Ry Age 77:885-7 N 15 '24
Utilization of rolling equipment in 1923. Ry R 74:379-83 Mr 1 '24
What better transportation has done. C: S. Keith and others. Nation's Business 13:40+ O '25
Work of Car service division. Ry Age 76: 1253-4 My 24 '24

See also Coal—Transportation; Demurrage; Freight cars—Interchange; Railroads—Management; Railroads—Statistics; Railroads—Trains; Refrigerator car lines; Refrigerator cars; Regional shippers advisory boards; *also* Chicago Junction railway

Car load

Departure in handling less than carload freight. E. F. Ford. Ry R 74:320-1 F 23 '24
Getting shippers to increase the car loading. J. M. Walsh and R. B. Goe. Ry R 77:205-6 Ag 8 '25; Same cond. Ry Age 78:1534-5 Je 20 '25
Heavier loading of cars needed. Ry Age 77: 775-6 N 1 '24
Heavier loading of cars—shippers induced to help. J. E. Roberts. Ry Age 76:1201-2 My 17 '24
New Haven shows the benefit of heavier car loading. Ry R 76:524-5 Mr 14 '25
Report of A. R. A. committee on loading rules. diag Ry Age 76:1684-6; Discussion. 1686 Je 18 '24
Tons per loaded car. Ry Age 77:152 Jl 26 '24

FREIGHT cars
A.R.A. track exhibit. il Ry R 76:1183-4 Je 20 '25
Automobile cars for Missouri Pacific. il Ry Age 78:741-2 Mr 14 '25; Same. Ry Mech Eng 99:155-7 Mr '25
Box cars exhibited at Chicago. il Ry Age 78: 1446-9 Je 13 '25
Chicago car builders well booked. E. C. Boehringer. Iron Tr R 74:745 Mr 13 '24
Development of railroad car equipment. E. Nilsson. il Ry R 77:480-4 S 26 '25
Discussion at convention of Chief interchange car inspectors' and car foremen's association of America, Chicago, Oct. 3-5. Ry Mech Eng 98:21-6 Ja '24
Die einführung der grossgüterwagen. Flügel. diags Zeit Ver Deutsch Ing 68:977-85 S 20 '24
50-ton capacity steel frame logging car. il Ry R 73:853-4 D 15 '23
Representative examples of double and single sheathed box cars built in 1923. il Ry R 74: 19-25 Ja 5 '24
Representative examples of flat cars built in 1923. il Ry R 74:37-8 Ja 5 '24
Representative examples of hopper cars built in 1923. il Ry R 74:33-6 Ja 5 '24
Representative examples of hopper cars built in 1924. il Ry R 76:57-60 Ja 3 '25
Representative examples of miscellaneous freight car equipment built in 1923. il Ry R 74:43-4 Ja 5 '24

See also Air brakes; Car doors; Car heating; Car painting; Car roofs; Car wheels; Coal cars; Container system (freight handling); Draft gears; Dump cars; Freight car service; Grain doors; Loading and unloading; Ore cars; Refrigerator car lines; Refrigerator cars; Stock cars; Tank cars

Design

A.R.A. committee report on car construction. il diags Ry Age 78:1566-77 Je 20 '25; Ry R 76:1164-9 Je 20 '25; Ry Mech Eng 99:426-34 Jl '25
Avoidable loss in poorly designed cars. O. O. Carr. Ry R 77:561 O 10 '25
Double sheathed 55-ton box cars for the D.L. & W. P. Alquist. il diags plans Ry Mech Eng 99:705-8 N '25
Experimental 50-ton capacity German freight cars. diags plan Ry R 74:257-8 F 9 '24
Interesting design of logging car; use of reclaimed material. il diags Ry R 75:92-4 Jl 19 '24
New ballast cars of the Michigan Central R.R. il diags Ry R 74:435-8 Mr 8 '24
New express refrigerator car, Great Northern Ry. il diags Ry R 76:229-33 Ja 31 '25
New type milk cars for the Lehigh Valley. il diags Ry Mech Eng 99:35-8 Ja '25; Ry Age 78:229-30 Ja 17 '25
Single sheathed box cars for the D.T. & I. il diags Ry Mech Eng 98:279-81 My '24
60-ton capacity s.s. box car, Canadian National Rys. il diags Ry R 75:701-6 N 8 '24

See also Freight cars—Standards

Inspection

See Car inspection

Interchange

Difficulties encountered in freight car interchange. Ry R 75:365-6 S 6 '24
Discussion of interchange rules. Ry Mech Eng 97:820-3 D '23
Discussion of new car interchange rules. Ry Mech Eng 98:737-43 D '24
Handling car interchange in Cuba. C. I. Mott. Ry Mech Eng 98:281 My '24
New interchange rule no. 44. Ry Age 78:1507 Je 20 '25
Recent decisions of the per diem rule arbitration committee, A.R.A. Ry R 76:107-8, 224-5, 831-3 Ja 10, 31, My 2 '25
Report of A. R. A. arbitration committee. Ry Age 76:1672-5 Je 18 '24
Report of A.R.A. arbitration committee. Ry Age 78:1582-4 Je 20 '25; Ry Mech Eng 99: 438-40 Jl '25

Loading rules

See Railroads—Loading rules

Lubrication

Prevention of hot boxes on freight cars. E. Von Bergen. Ry Mech Eng 98:749-50 D '24

Manufacture

Bangor & Aroostook car building contest. il Ry Age 76:511-13 Mr 1 '24; Same. Ry Mech Eng 98:282-4 My '24
Mass production of railway wagons. il diags Engineer 136:697-700 D 28 '23; Engineering 116:797-801 D 28 '23
More improvements in Bethlehem's Cambria shops. G: A. Richardson. il Ry R 76:1026-8, 1150-6 Je 6, 20 '25
Production methods in British freight car building. D. R. Lamb. il charts plan Ry R 74:717-22 Ap 19 '24
Report on the preservation of car lumber. Ry Age 78:366-7 F 7 '25; Ry R 76:422-5 Mr 7 '25
Treating freight car timber will cut repairs. H. S. Sackett. il Ry Age 77:337-9 Ag 23 '24

Painting

See Car painting

Pooling

Freight car distribution in the United States. L. M. Betts. Ry Age 75:1205-6 D 29 '23
Warfield plan analyzed. Ry Age 75:1167 D 22 '23

Prices

Freight car prices in 1924. Ry Age 78:89 Ja 3 '25

FREIGHT cars—*Continued*

Repair

A.C.L. rebuilds ventilated box car in 6½ hours. il Ry Mech Eng 98:681-3 N '24
Analysis of the cost of freight car repairs. J. L. White. Ry Age 77:21-4 Jl 5 '24
Applying corrugated steel ends to box cars. il Ry Mech Eng 99:638 O '25
Apprentices repair gondola unaided. il Ry Mech Eng 99:511-12 Ag '25; Ry R 77:210-11 Ag 8 '25
Box cars rebuilt in record time, D. & H. co. il diags Ry R 74:913-21 My 24 '24
Burlington rebuilds eight box cars a day at Aurora. il plan Ry Mech Eng 99:284-7 My '25
Car man and freight claim prevention. J. Marshall. Ry R 75:796-7 N 15 '24
Car repair contest, Delaware & Hudson co. il Ry R 73:891-4 D 22 '23; Same. Ry Mech Eng 98:30-2 Ja '24; Same, without table. Ry Age 75:1165-7 D 22 '23
Constructive study of railroad car repairs. il diag plans Ry R 74:989-99 Je 7 '24
Efficiency in heavy freight car repairs. H. W. Williams. Ry Age 77:810-12 N 1 '24; Same. Ry R 75:885-7 N 29 '24
Freight car repair industry addresses I. C. C. Ry Age 79:149-51 Jl 18 '25; Ry R 77:105-9 Jl 18 '25
Gondola car rebuilt in forty-five man-hours. il Ry Mech Eng 99:567-70 S '25; Same cond. Ry Age 78:1450-2 Je 13 '25
Improving car department service; abstracts. L. K. Sillcox. Ry Mech Eng 99:24-9, 104-7 Ja-F '25; Ry Age 77:1075-9, 1121-4 D 13-20 '24; Ry R 76:78-86 Ja 3 '25
Inspection and maintenance of freight cars. E. Erickson. il Ry Mech Eng 98:98-100 F '24
Maintaining freight cars under a cost plus plan. E. Nilsson. il plan Ry R 76:1051-5 Je 13 '25
Modern freight car repair shop; Southern plant at Finley. J. M. Plaskitt. il diag plans Ry Mech Eng 99:333-41 Je '25
Monon shows proficiency in handling car material. il Ry Age 79:366-8 Ag 22 '25
New car repair facilities for the D. & R.G.W. il diags Ry Mech Eng 98:540-5 S '24
Planning system in a car manufacturing plant. il plan Ry R 74:357-65 Mr 1 '24
Progressive system of freight car repairs. F. A. Starr. diag Ry Mech Eng 99:629-33 O '25; Same. Ry R 77:700-3 N 7 '25; Discussion. Ry Mech Eng 99:709-10 N '25
Rebuilding narrow gage cars. L. Dreith. il Ry Age 77:428 S 6 '24; Same. Ry Mech Eng 98:683 N '24
Some freight car maintenance problems. C. G. Juneau. charts Ry R 76:938-41 My 23 '25; Same. Mech Eng 47:497-9 Je '25; Same. Ry Mech Eng 99:561-4 S '25
Straight line or spot system of car repairs. il diag Ry R 77:548-53 O 10 '25
Systematic car repair work at Kent, Ohio. G. W. Armstrong. il plan Ry R 74:133-6 Ja 19 '24
Time record in rebuilding box cars, A.C.L. R.R. O. A. Wallace. il Ry R 75:533-7 O 11 '24
Unit system for freight car repairs. J. McClennan. Ry Mech Eng 98:419-20 Jl '24
Welding and cutting in freight yard repairs. H. W. L. Porth. il Ry Mech Eng 98:88-90 F '24

See also Freight cars—Interchange; Freight cars, Steel—Repair; Railroads—Shops

Standards

A.R.A. committee report on car construction. Ry Age 76:1634-6 Je 17 '24; Ry R 74:1186-9 Je 21 '24; Discussion. Ry Age 76:1636-8 Je 17 '24
A.R.A. committee report on car construction. il diags Ry Age 78:1566-77 Je 20 '25; Ry R 76:1164-9 Je 20 '25; Ry Mech Eng 99:426-34 Jl '25
Exhibit of proposed standard box cars at Chicago. il diag Ry Mech Eng 99:506-10 Ag '25
Pennsylvania exhibits standard cars. il Ry Age 76:1661-3 Je 17 '24
Proposed design for A.R.A. standard D.S. box car. E. Nilsson. il diags plans Ry R 76:1129-30, 1172-9 Je 20 '25
Result of letter ballot, A.R.A. standard box cars. il Ry R 75:662-3 N 1 '24
Results of the recent letter ballot on standard cars. Ry R 73:813-14 D 1 '23

Statistics

Car equipment in the year 1924. Ry R 76:43-73 Ja 3 '25
Car orders placed during 1924. Ry Mech Eng 99:95 F '25
Freight and passenger car orders in 1923. Ry Mech Eng 98:91-2 F '24
Freight car equipment in 1923. il Ry R 74:17-44 Ja 5 '24
Freight car increase breaks all records. Ry Age 76:87-93 Ja 5 '24
Freight car purchases in 1924. F. W. Kraeger. il Ry Age 78:75-82 Ja 3 '25
Good supply of box cars on western roads. Ry Age 77:167 Jl 26 '24

FREIGHT cars, Concrete

Development of the reinforced concrete car. A. B. Reeve. il Ry Age 79:41-4 Jl 4 '25

FREIGHT cars, Steel

42-ton hopper wagon for coal traffic at British Empire exhibition. il Engineering 118:279-80, pl 27 Ag 29 '24
Koppel steel dump car embodies new features. il Ry Age 79:278 Ag 8 '25
Missouri Pacific gets hopper cars with improved end design. il diag Ry Age 79:186-7 Jl 25 '25
New 70-ton capacity gondola car for the Wabash for shipment of pipe and tubing. il diag Ry R 75:657-9 N 1 '24
Transformer cars for the New York, New Haven & Hartford R.R. il diag Ry R 74:683-5 Ap 12 '24

Dismantling

Burlington dismantles cars at Eola scrap dock. il diag Ry Mech Eng 98:477-9 Ag '24
Scrapping steel cars by electric arc process. A. M. Candy. il Ry Mech Eng 98:217-19 Ap '24

Manufacture

Interesting processes in building freight cars. G: A. Richardson. il diag Ry R 76:1150-6 Je 20 '25
Need of planning in building and repairing cars. E. Nilsson. Ry R 76:1075-8 Je 13 '25

Repair

Methods of repairing steel cars. G: P. Hoffman. diag Ry Mech Eng 99:153-4 Mr '25
Modern freight car repair shop; Southern plant at Finley. J. M. Plaskitt. il diag plans Ry Mech Eng 99:333-41 Je '25
Need of planning in building and repairing cars. E. Nilsson. Ry R 76:1075-8 Je 13 '25

FREIGHT claims. See Railroads—Claims

FREIGHT forwarders. See Shipping

FREIGHT handling

Avoidable loss in poorly designed cars. O. O. Carr. Ry R 77:561 O 10 '25
Better shipping containers. F. T. Smith. il Management & Adm 10:23-6 Jl '25
Cargo handling at ports. B. Cunningham. 180p Chapman & Hall, ltd., London '23
Cargo moved direct from ship to rail. D. Partridge. il plan Marine R 55:309-11 Ag '25
Cut cost of terminal movement; use inland union freight stations. E. Church. il diag Marine R 55:357-60 O '25
Cut labor cost in handling freight. il Marine R 55:236-7 Je '25
Distribution an economic task. H. N. Taylor. il Am Ind 25:36-7+ Jl '25
Distribution and mailing of outgoing freight waybills in the Veri-direct method of moving package freight. C. G. Johnson. Ry Age 76:1311-12 My 31 '24
Die Duisburg-Ruhrorter häfen. Germanus. il diags Zeit Ver Deutsch Ing 69:1213-20 S 19 '25

FREIGHT handling—*Continued*
Longshore labor efficiency. Monthly Labor R 18:325-33 F '24
Mechanical handling at rail and water terminals. G: Bulkeley. bibliog il diags plan Cassier's Ind Management 12:92-9 Ja '25
Meets needs of fast liner service. H. R. Simonds. il Marine R 55:13-16 Ja '25
Simple methods of reducing damage to shipments. W. H. Upson, jr. Management & Adm 9:233-4 Mr '25
Study in L.C.L. freight terminal service. il map Ry R 73:747-50 N 24 '23
Technische und wirtschaftliche fragen des umschlagverkehrs. F. Helm. il diags Zeit Ver Deutsch Ing 69:1201-8 S 19 '25
L'utilisation des trucks-transporteurs sur les chemins de fer à voie étroite. L. Petit. il diag Génie Civil 86:259-62, 284-6 Mr 14-21 '25
Zweckmässigste ausrüstung der güterverkehrsmittel der eisenbahn. Simon-Thomas. il Zeit Ver Deutsch Ing 69:1221-4 S 19 '25

See also Coal handling; Container system (freight handling); Containers; Cranes, derricks, etc.; Dumping appliances; Electric railroads—Freight; Electric trucks, Industrial; Electricity in freight handling; Freight, Perishable; Freight houses; Freight ships; Freight subways; Grain handling; Hoisting machinery; Lighters; Loading and unloading; Lumber handling; Merchant marine; Motor trucks in freight service; Ore handling; Railroads—Loading rules; Railroads—Terminals; Terminals; Train ferries; Wharves

Store door delivery

Boston & Maine R.R. will inaugurate store door delivery. Ry R 76:943 My 23 '25
Delivering less-than-carload freight by motor truck. R. D. Sangster. Soc Auto Eng J 14: 415-21 Ap '24; Discussion. 14:617-22 Je '24
Electric trucks for store door delivery of freight. R. Macrae. Gen Elec R 27:793-4 D '24
English store door delivery practice. F. C. Horner. il Ry Age 76:321-3 F 2 '24
Lowering the cost of distribution. Ptr Ink 127:93-4+ Je 26 '24
Organized motor transportation in railroad terminals. R. Johnson. Eng & Contr (Ry) 62:164-6 Jl 16 '24
Results of store door delivery in England analyzed. Ry Age 79:701-3 O 17 '25
Shippers endorse store-door delivery. Munic & Co Eng 67:242-4 N '24
Solving the city terminal problem. W. H. Lyford. Munic & Co Eng 68:305-15 Je '25
Speeding the freight—cutting the cost. F. Snow. Comm & Fin 14:1033-4 My 27 '25
Store-door delivery; discussion at Transportation conference. Ry Age 76:241-3 Ja 19 '24
Where railways deliver to store. F. C. Horner. Nation's Business 11:50+ D '23

FREIGHT houses
A.R.E.A. sub-committee report on freight handling at two-track-level freight houses and team tracks and multiple story freight houses. Ry R 76:564-6 Mr 21 '25
Cleanliness distinguishes new Bluefield station of Norfolk & Western railway. C: Layng. il Ry R 77:545-7 O 10 '25
Double-deck freight terminal for Monon line. il diags Eng N 94:354-6 F 26 '25
Freight station officers meet in Kansas City, Mo. Ry Age 78:1325-7 My 30 '25
Layout and design of large modern freight terminal; Pennsylvania R.R. freighthouse at Detroit. il plans Eng N 93:227-30 Ag 7 '24
Monon builds two-level freight house. il diags plans Ry Age 78:450-2 F 21 '25
Norfolk & Western builds freight station at Bluefield. L. L. Kelly. il diag plan Ry Age 79:663-6 O 10 '25
Pennsylvania completes new freight station. il diags plan Ry Age 76:875-9 Ap 5 '24
P-O builds new freight terminal at Youngstown, O. R. M. Graham. il map Elec Ry J 65:233-4 F 7 '25

See also Railroads—Terminals; Warehouses

FREIGHT rates
Foreign competition and freight rates discussed at hearing before Interstate commerce commission. L. W. Moffett. Iron Age 114:1067-8 O 23 '24
Die frachtbelastung für eisen in der vor- und nachkriegszeit. F. Baare. Stahl & Eisen 45: 1348-57, 1384-8 Ag 6-13 '25
How to make rail and water rates pay. T. C. Powell. Ry R 77:882-5 D 12 '25; Same cond. Ry Age 79:845-6 N 7 '25
Law of market areas explained. F. A. Fetter. Iron Tr R 76:817-19 Mr 26 '25
Making freight shipments pay profits. R. T. Kent. map Management & Adm 9:159-62 F '25
Ocean freight rates. Published in monthly numbers of Marine review
Relation of the Ohio river and its tributaries to transportation in the United States. C. W. Kutz. Am Soc C E Pro 51:1642-58 O '25

See also Express rates; Railroads—Rates; Shipping—Rates

Port differentials

Bill to abolish port differentials. Ry Age 78: 268 Ja 24 '25

FREIGHT rates, Railroad. See Railroads—Rates

FREIGHT ships
Big lake motorship for Henry Ford. J. C. Workman. il diags plan Marine R 54:177-84, 208-11 My-Je '24; Excerpt. Iron Tr R 74: 1232-5 My 8 '24
Canadians build big freighter Gleneagles. il Marine R 55:422-3 N '25
El Oceano express freighter runs well. A. S. Hebble. il Marine R 55:244 Jl '25
Factors affecting the economy of lake freighters. A. F. Lindblad. Marine Eng 28:764-70; Discussion. 750 D '23
Finds new use for old ships; self-unloading installations. R. V. Sawhill. il diags Marine R 55:7-12 Ja '25
Former passenger vessel Bienville is converted into the freight vessel El Coston. il Marine R 55:373-4 O '25
Four year log of a war built ship; American freighter Hog Island. il Marine R 53:445-8 D '23
Fruit carrying motorship La Playa; fitted with Camellaird-Fullagar engines. il diags plans Marine Eng 29:20-4 Ja '24
New Southern Pacific steamship El Oceano. il diags plans Marine Eng 30:260-3 My '25
Performance tests of steamship Charles M. Schwab. il diags plans Marine Eng 29:278-84 My '24
Run from Duluth to Caribbean; two ships of unusual design. il diags map plans Marine R 54:1-11 Ja '24
Safety factors in lake ships. A. Lindblad. Marine R 53;370-3, 424-5, 462-4; 54:58-62 O-D '23, F '24
Self-unloading Great Lakes bulk cargo vessels. H. Penton and H. C. Sadler. diags Marine Eng 30:103-9 F '25; Same cond. Engineering 118:723-4 N 21 '24; Abstract. Eng N 94:109 Ja 15 '25; Abstract. Cassier's Ind Management 12:183 Mr '25; Discussion. Marine Eng 29:729-30 D '24
Service trials of the S.S. El Oceano. Marine Eng 30:449-50 Ag '25
Sets record in freight service. il Marine R 54:384-6 O '24
Some recent motor driven cargo ships equipped with Burmeister and Wain four cycle engines. il plans Marine Eng 30:489-92 S '25
Steel corporation's new freight service. il Iron Age 113:289-90 Ja 24 '24
Toledo shipbuilding company completes modern bulk freighter William K. Field for Reiss steamship company. il diags plans Marine Eng 29:216-22 Ap '24
Tramp steamship — world feeder. E. T. Chamberlain. maps Am Ind 25:29-32 Ag '24

FREIGHT ships—*Continued*
Vessels turned out by the British. il Marine R 55:188-9 My '25

See also Lighters; Merchant marine; Tank ships

FREIGHT subways
Accident prevention in Chicago's freight subway. C. T. Fish. il Nat Safety N 11:9-11 Mr '25
Proposed London freight subway. Ry Age 79: 587-8 S 26 '25

FREIGHT terminals. See Railroads—Terminals; Terminals

FREIGHT trains. See Railroads—Trains

FRENCH furniture. See Furniture, French

FRENCH language
Industrial and scientific French. E. V. Greenfield and H. Babson. 327p Ginn '25

See also Commercial correspondence, French

Dictionaries
French-English and English-French dictionary of technical terms and phrases. J. O. Kettridge. 2v 1147p H. W. Wilson co. '25

FRENCH metallurgists. See Metallurgists, French

FRENKEL'S theory
Effect of a transition layer on intrinsic potential. P. V. Wells. Phys R 23:205-8 F '24

FREQUENCY
Measurement of the natural frequency of an inductance coil at audio-frequency. H. Nukiyama and K. Kobayashi. diags Philos Mag 6th ser 48:962-71 N '24

FREQUENCY, Law of. See Statistical methods

FREQUENCY analyzer
Electrical frequency analyzer. R. L. Wegel and C. R. Moore. diags Am Inst E E J 43: 798-802 S '24; Abstract. Electrician 93:408+ O 10 '24

FREQUENCY changers
Beitrag zur frequenztransformation mittels eisendrosseln. W. Dornig. diags Elektrotech Zeit 45:1107-8 O 16 '24
Frequency changers. K. Lubowsky. diags Electrician 93:404-5, 436-7 O 10-17 '24
Frequency changing device; notes on the principle of the bridge arrangements. S. Chiba. diags Electrician 93:576-7 N 21 '24; Discussion. C. W. Eisenmann. 94:96 Ja 23 '25
Frequency multiplication; principles and practical applications of ferro-magnetic methods. N. Lindenblad and W. W. Brown. diags Am Inst E E J 44:469-73 My '25; Discussion. 44:895 Ag '25
Magnetische selbststeuerung der transformierten höheren frequenz. W. Dornig. diags Elektrotech Zeit 46:223-5 F 12 '25
Operation of converting apparatus. V. E. Johnson. diags Power Pl Eng 29:541-3 My 15 '25
Scherbius controlled induction synchronous frequency converter. R. E. Greene. il diags Power 61:258-60 F 17 '25
Some developments in the electrical industry during 1924. J. Liston. il Gen Elec R 28: 18-20 Ja '25
35,000-kw. induction frequency converter; discussion of article by O. E. Shirley. Am Inst E E J 44:276-8 Mr '25
35,000 kw synchronous frequency changer set. M. W. Smith. il diags Elec J 21:343-6 Jl '24
Use of frequency changers for interconnection of power systems. H. R. Woodrow. Am Inst E E J 44:354-6 Ap '25; Discussion. 44:878-9 Ag '25
World's largest frequency changer. W. B. West. il Am Inst E E J 43:709 Ag '24

FREQUENCY meters
Fréquencemètre électrolytique de construction simple. A. P. Rollet. diag Génie Civil 86:46 Ja 10 '25
Use of special a.c. instruments. il diags Power Pl Eng 29:78-81 Ja 1 '25

FRESCO painting
Modern fresco decoration. il Am Arch 128: 361-4 O 20 '25

FRESH air school. See Schools, Open air

FRESNO, California

Water supply
Fresno city water corporation. E. K. Barnum. Am Water Works Assn J 13:81-90 Ja '25

FRESNOE scrapers. See Road scrapers

FRIBOURG, Switzerland

Bridges
Les nouveaux ponts de Fribourg (Suisse). C: Dantin. il map Génie Civil 84:317-19, pl 4 Ap 5 '24

FRICTION
Automotive airbrake—why and how. H. D. Hukill. il diags Soc Auto Eng J 16:283-96 Mr '25
Bestimmung der reibungskräfte bei keilflächen durch ausgeführte versuche. G. Haimann. il Elektrotech Zeit 45:955-6 S 4 '24
Does the *zn/p* function fit the facts? A. E. Becker. diags Ind & Eng Chem 16:856-7 Ag '24; Discussion. 16:975 S '24
Effect of temperature upon the friction of water in pipes. F. E. Giesecke. Am Soc Heat & V E J 30:747-52 D '24; Abstract. Heat & Ven 22:71-3 F '25; Discussion. Am Soc Heat & V E J 31:208-9 Mr '25
Flow of liquids; some factors influencing friction, velocity distribution and heat transmission. W. H. McAdams. bibliog il charts Refrig Eng 11:279-88; Discussion. 288+ F '25
French engineers outline new development of Lasche's formula. Automotive Ind 50: 139 Ja 17 '24
Friction, by S. E. Stanton. Review. Engineering 117:184-5 F 8 '24
Frictional resistance of surfaces of various forms. G. Kempf. il diags Marine Eng 30: 161-6 Mr '25
High-pressure-bearing research; abstracts. L: Illmer. Am Mach 61:959-62 D 18 '24; Mech Eng 47:109-10; Discussion. 113-14 F '25
Internal friction as a cause of shaft whirling. A. L. Kimball, jr. diags Philos Mag 6th ser 49:724-7 Ap '25
Investigation of the friction between sliding surfaces, with special reference to the effects produced by electric currents passing across such surfaces. H. M. Barlow. diags Inst E E J 62:133-58; Bibliography. 158-9 F '24; Discussion. 62:477-8 My '24
Pendulum bearing tester. L. C. Price. Sibley J 39:239-41 Ja '25
Prime cause of friction. E. W. Davis. Mech Eng 47:906 N '25
Ueber die prüfung der abnutzung von eisen und stahl bei rollender reibung ohne schmiermittel. H. Meyer and F. Nehl. il Stahl & Eisen 44:457-64 Ap 24 '24
Versuche über die reibung fester körper. G. Sachs. Zeit Ver Deutsch Ing 68:884-5 Ag 23 '24
Why work in a centerless grinder revolves with the regulating wheel. P. M. Heldt. Automotive Ind 53:574 O 1 '25

See also Skin friction

FRIEDEL and Crafts reaction
Ketenes in the Friedel and Crafts reaction. C: De W. Hurd. Am Chem Soc J 47:2777-80 N '25
Use of aliphatic acid anhydrides in the preparation of ketones by the Friedel and Crafts reaction. C. R. Noller and R. Adams. Am Chem Soc J 46:1889-96 Ag '24

FRIEZES
Section of frieze on southern facade, Missouri state capitol, Jefferson City, Mo. il Am Arch 125:22-4 Ja 2 '24

FROST
Destruction d'un barrage à voûtes par la gelée. Génie Civil 87:255-6 S 19 '25

See also Ice; Thawing

FROST protection
Oil industry enjoys good market in warming up the oranges. il Nat Pet N 16:105+ My 7 '24

FROUDE, Robert Edmund, 1846-1924
Work of W. and R. E. Froude. A. W. Johns. Engineer 138:660-1, 687-9, 715-17 D 12-26 '24

FROUDE, William, 1810-1879
Work of W. and R. E. Froude. A. W. Johns. Engineer 138:660-1, 687-9, 715-17 D 12-26 '24

FROZEN fish. See Fish, Frozen

FROZEN fruit. See Fruit, Frozen

FROZEN meat. See Meat, Frozen

FRUCTOSE
Relations between rotatory power and structure in the sugar group; the halogenacetyl derivatives of a ketose sugar (*d*-fructose). C. S. Hudson. Am Chem Soc J 46:477-83 F '24

FRUIT
Associations find new products to merchandise; fruit research. Ptr Ink 130:49-50 F 19 '25
Freezing temperatures of some fruits, vegetables and cut flowers. R. C. Wright and G: F. Taylor. Refrig Eng 11:268-70 Ja '25
Non-volatile acids of the strawberry, the pineapple, the raspberry and the Concord grape. E. K. Nelson. Am Chem Soc J 47: 1177-9 Ap '25
Vitamins and fruit in the diet. Nation's Health 7:416-17 Je '25

See also Canning and preserving; Drying (fruits and vegetables)

Marketing

F.O.B. auction sales of California fruit. J: T. Bartlett. Ptr Ink 126:97 F 28 '24
How Sealdsweet advertises to growers to insure quality. Ptr Ink 129:34+ O 16 '24
Why Sunkist missionaries will call on 40,000 retailers. P. S. Armstrong. Ptr Ink 127:161-2 Je 12 '24

Marking

Electric fruit marker prevents quality substitution. il J Elec 51:369 N 15 '23

Packing

New industrial application of electric heaters in sweating rooms of fruit packing plants. il J Elec 54:21 Ja 1 '25

Preservation

Disinfecting and washing citrus fruit. H. E. Shiver. Chem & Met Eng 32:812 O '25

See also Canning and preserving; Fruit, Dried; Fruit, Frozen

Transportation

Economic losses in transit of fresh fruits and vegetables. J. Marshall. Ry R 75:291-4 Ag 23 '24
Great Northern's fruit movement in 1923-24. Ry Age 77:322 Ag 23 '24
Loss and damage payments on fresh fruits and vegetables in which delay is the main factor. Ry Age 76:1031-2 Ap 26 '24
Transportation of citrus fruit from Porto Rico. R. G. Hill and L. A. Hawkins. il diags U S Agric Bul 1290:1-19 '24; Same. Refrig Eng 11:357-62 Ap '25
Transportation of Pacific coast perishables. A. L. Cricher. maps U S Bur For & Dom Com Trade Promotion ser 12:1-91 '24

See also Cooling of fruits and vegetables; Freight, Perishable; Refrigerator barges; *also* American fruit and vegetable shippers' association

FRUIT, Dried
Inexpensive laboratory mill for grinding dried fruits and similar materials in the presence of a liquid. R. A. Dutcher and J: F. Laudig. il diag Ind & Eng Chem 16:126-7 F '24

See also Raisins

FRUIT, Fossil
Fossil charophyte-fruits from Texas. J. Groves. diags Am J Sci 5th ser 10:12-14 Jl '25

FRUIT, Frozen
Preservation of quickly perishable fruits and vegetables; freezing in sugar solution. E. L. Overholser. Refrig W 60:25-6 Jl '25

FRUIT culture

See Citrus fruit; Grafting

FRUIT drying. See Drying (fruit and vegetables)

FRUIT handling
Getting the melons out of Imperial valley. C. W. Runge. Ry R 77:698-9 N 7 '25
Handling bananas at the port of New Orleans. F. B. Peebles. il diags Cassier's Ind Management 12:329-32 Je '25
Handling, packing and storing fruit. W. A. Scott. il Cassier's Ind Management 12:359-61 Jl '25
Reduce time in delivery of bananas. H. R. Simonds. il Marine R 55:433-5 N '25
Swing-or finger-tray elevator for handling fresh fruit in crates, barrels and cases. G: F: Zimmer. diags plan Cassier's Ind Management 11:445-7 O '24

FRUIT jar rings
Manufacture of fruit jar rings. il India Rubber W 71:143-4 D '24

FRUIT juices
Fermentation of natural fruit juices. B. A. Dunbar and C. F. Wells. Ind & Eng Chem 16:739-40 Jl '24
New methods for handling fruit juices. Sci Am 133:51 Jl '25

See also Lime juice

FRUIT products
Waste products engineering; California has created profitable outlet for discarded fruit pits. A. W. Allen. il Chem & Met Eng 32: 435-6 Ap '25

FRUIT trade
Auctions where they bid on the invisible. Am Bankers Assn J 18:31-2 Jl '25
Removing the menace of surplus production. M. Hastings, jr. Ptr Ink 133:149-50 O 8 '25

See also California fruit growers' exchange; United fruit company

Advertising

Small advertising appropriation markets a fruit new to the trade; Satsuma oranges. Ptr Ink 126:119-20 Ja 24 '24

California

F.O.B. auction sales of California fruit. J: T. Bartlett. Ptr Ink 126:97 F 28 '24
What advertising did for Sunkist in 1923. Ptr Ink 125:49-50 D 13 '23

FUCHSIN
Basic fuchsine for biological staining. H. J. Conn. Color Tr J 15:166-7 D '24
Spectrophotometric identification of dyes. W. C. Holmes. Ind & Eng Chem 17:59-60 Ja '25

FUEL
Anthracite, other fuel, and the law. H: Wharton. Am Ind 24:27-30 F '24
Anthracite substitutes. O. P. Hood. Am Soc Heat & V E J 29:581-2 O '23
Die chemie auf der Londoner weltkraft-konferenz. H. Grossmann. Zeit Ver Deutsch Ing 69:95-7 Ja 24 '25
Combustibles et carburants coloniaux. R. Fouque. Génie Civil 85:296-8, 315-18 O 4-11 '24
Fuel. G. W. Andrew, ed. (Resources of the Empire ser. v. 4) 208p Van Nostrand '24
Fuel engineering. C. M. Young. J Eng Educ 15:690-4 My '25
Fuel of the future. F. W. Goodenough. Gas J (Lond) 165:84-5; 168:431-2 Ja 9, N 12 '24
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 118:557-61; 119:193-6, 204-5, 253-7+, 457-61, 545-7+, 609-11+; 120:27-30+, 187-9+, 333-7; 121:677-8+, 789-90, 803-6, 851-2+, 1081-2, 1261-2; 122:45-6+, 135-6+, 265-6+, 349-50+, 389-91+; 123:1-2+, 88-91+, 215-16+, 483-4+, 563-4+, 651-2+ Je 30, S 8, 29, O 20, N 17, D 8 '23. Ja 12, Mr 1, Ap 12, Jl 26, Ag 30, S 20, O 18, D 13 '24, Ja 17, F 14, Mr 28, Ap 25, My 9, Jl 4, Ag 1, S 12, O 24, N 21, D 19 '25

FUEL—*Continued*
Fuel preparation discussed at World power conference. Power 60:249-52 Ag 12 '24; Engineering 118:37-9 Jl 11 '24
Fuel situation from an engineer's standpoint. W. V. Turner. il Gas Age 54:791-3 D 6 '24
Fuel; solid, liquid and gaseous. J. S. S. Brame. 3d ed. 388p Longmans
Fuels and combustion. Power 61:9-12 Ja 6 '25
Fuels work of the Bureau of mines. O. P. Hood. Am Inst Chem Eng Trans v 15 pt 2: 55-8 '23
Interesting developments in the fuel field. il Gas Age 54:259-60+ Ag 23 '24
Investigation of the maximum temperatures and pressures attainable in the combustion of gaseous and liquid fuels. G. A. Goodenough and G: T. Felbeck. Ill U Eng Exp Sta Bul 139:11-158 '24
Looking ahead in our fuel development. F. W. Parsons. il Gas Age 53:107-8+ Ja 26 '24
Modern tendencies in fuel selection. R. C. Nason. Sanitary & Heat Eng 101:136-8 Mr 7 '24
Müllverbrennung. H. Koschmieder. diag Elektrotech Zeit 46:387 Mr 12 '25
New developments in Canadian fuels. B. F. Haanel. Paper 33:8-10 F 7 '24
Outstanding developments in fuel engineering and research during 1924. H. W. Brooks. Mech Eng 47:145-7 F '25; Same. Gas Age 55: 265-7 F 21 '25
Power and fuel consumption of the iron and steel industries of Pittsburgh. S. B. Ely and W. F. Rittman. il map Blast F & Steel Pl 13:449-55 N '25
Recent progress in the field of fuels and fuel technology. R. T. Haslam and E. W. Thiele. Ind & Eng Chem 16:749-52; Bibliography. 752-3 Jl '24; Abstract. Chem & Met Eng 31: 15 Jl 7 '24
Relative value of fuels. R. O. Wynne-Roberts. Am Gas J 121:791-2+ Ag 30 '24; Same. Gas Age 54:319-20 S 6 '24; Same. Can Eng 47: 643-4 D 30 '24
Review of the fuel problem in Canada. C: Camsell. Can Eng 46:345-7 Mr 18 '24
Significant progress in research on fuels. A. C. Fieldner. Ann Am Acad 119:13-23 My '25
Smokeless fuel and oil. C. H. Lander. Chem Age (Lond) 12:357 Ap 11 '25
Smokeless fuel problems: symposium. Chem Age (Lond) 13:94-6 Jl 25 '25; Gas J (Lond) 177:277-80 Jl 29 '25; Engineering 120:81-2 Jl 17 '25
Smokeless fuel: the present position and future possibilities. C. H. Lander and M. Fishenden. Soc Chem Ind J 44:375-82 Jl 24 '25; Abstract, with discussion. Gas J (Lond) 171: 277-9 Jl 29 '25
Solid smokeless fuels, their properties and uses. E. C. Evans. Soc Chem Ind J 44:383-91 Jl 31 '25; Abstract, with discussion. Gas J (Lond) 171:277-9 Jl 29 '25
Some aspects of the fuel problem. C. H. Lander. Soc Chem Ind J (Chem & Ind) 42: 1052-6 N 2 '23
Substitutes for anthracite as a domestic fuel, with some remarks on the purchase of coal by industrial users. F. R. Wadleigh. Ann Am Acad 111:266-89 Ja '24
Les théories modernes sur la constitution chimique des combustibles solides. E. Audibert and A. Raineau. Chimie & Ind 11:229-47, 434-48 F-Mr '24
Utilisation of low grade and waste fuels. W. F. Goodrich. 368p [bibliog. p. 358-60] E. Benn, ltd., London '24
World's present fuel resources. E. A. Holbrook. Ann Am Acad 111:203-11 Ja '24

See also Airplane engines—Fuel; Alcohol as fuel; Automobile engines—Fuel; Blast furnace gas; Boilers—Firing; Briquets (fuel); Briquetting (fuel); Charcoal; Cinders; Coal; Coal, Pulverized; Coal waste; Coalite; Coke; Coke breeze; Coke-oven gas; Combustion; Diesel engines—Fuel; Firing; Fuel, Colloidal; Fuel economizers; Fuel economy; Furnaces; Gas, Natural; Gas and oil engines—Fuel; Gas as fuel; Gasoline; Heating; Kerosene; Lignite; Liquid fuel; Locomotives—Fuel; Motor truck engines—Fuel; Oil as fuel; Peat; Railroads—Fuel; Smoke prevention; Trent amalgam; Waste fuel; Wood as fuel

Analysis

Dosage du carbone dans les substances organiques et les combustibles par oxydation sulfochromique. D. Florentin. Chimie & Ind 11:875-9 My '24

Cost

Comparative costs of fuels for home cooking. B. M. Allen. Gas Age 56:335-6+ S 5 '25
Comparing oil fuel and coal costs. W. F. Schaphorst. chart Eng & Min J 117:407-8 Mr 8 '24
Cost of industrial heating. D. J. Demorest. Chem & Met Eng 32:381-2 Mr '25
Future of gas in industry. H. E. Broughton and H. C. Haroldson. Gas Age 56:457-8+ O 3 '25
Making an industrial survey and an analysis of other fuels. C. H. Light. charts Gas Age 56:243-6+ Ag 22 '25
Making the refinery show a profit by reducing operating costs. P. Truesdell. Nat Pet N 15:35+ D 5 '23
Oil is cheaper than coal in home heating considering all costs. Nat Pet N 17:71+ Ja 14 '25
Plotting relative cost of various fuels. R. J. Wynne-Roberts. chart Can Eng 45:589-92 D 18 '23
Why gas rarely replaces coal for house heating. W. S. Blauvelt. Coal Age 26:182-3 Ag 7 '24

Testing

Oxy-calorimeter; principle and application to the determination of energy values of fuels, foods, and excretory products. F. G. Benedict and E: L. Fox. diags Ind & Eng Chem 17:912-18 S '25
Test code for solid fuels. diags Mech Eng 46: 558-62 S '24
Training course for heat experts conducted by High technical college of Vienna. Gas Age 56:213-14 Ag 15 '25

FUEL, Colloidal
Colloidal fuel; abstract. J. T. Dunn. Mech Eng 46:632-3 O '24
Pulverised and colloidal fuel. J. T. Dunn. 200p Van Nostrand '24
Pulverised fuel, colloidal fuel, fuel economy, and smokeless combustion. L. C: Harvey. 466p Macmillan '24

FUEL, Liquid. See Liquid fuel

FUEL economizers
Bids on boiler auxiliary equipment of Detroit municipal plant. Power 61:607 Ap 21 '25
Economiser. Ind Management (Lond) 10:332+ D 13 '23
Economizer corrosion and dew point of flue gases. B. M. Thornton. Power 61:460 Mr 24 '25
Gusseiserne rauchgas-vorwärmer für niedrigen und hohen druck. il diags Zeit Ver Deutsch Ing 68:609-10 Je 7 '24
Power economies through heaters and economizers. F. Juraschek. il diags plan Ind Management 70:178-82 S '25
What size economizer is needed? Power Pl Eng 29:1020-1 O 1 '25

FUEL economy
Cheaper power; suggested combination of gas and electricity production. W. D. Wylde Elec R (Lond) 97:287-8 Ag 21 '25
Coal conservation—fact and figures for the gas salesman. R. J. Rogers. Gas J (Lond) sup 3:214-16 N 26 '24
Concentrator practice in Utah saves coal used per ton but enlarges total demand. R. D. Hall. Coal Age 28:391-2 S 17 '25
Conserving our industrial fuels. G. R. Brandon. Iron Tr R 75:799-801 S 25 '24
Designing and planning for home heating economies. D. K. Boyd. Am Soc Heat & V E J 31:159-66; Discussion. 170-4 Mr '25
Economical use of fuel in steel plants. H. E. Seibert. Iron Age 112:1651-2 D 20 '23

FUEL economy—*Continued*

Economy in the use of fuel; data collected from discussions at the conference of engineers held in Philadelphia. Power Pl Eng 28:244-5 F 15 '24; Power 59:149-50 Ja 22 '24

Economy of fuel through intelligent operation. H. H. Norton. Power 59:231 F 5 '24

L'emploi rationnel des combustibles et le coke. P. Mougin. Chimie & Ind 13:321-4 F '25

Fuel conservation and smoke abatement. F. W. Goodenough. Gas J (Lond) 167:394-6 Jl 23 '24

Fuel conservation and wastefulness in its use. R. H. Fernald. Gas Age 52:673-4 D 1 '23

Fuel conservation urged by International chamber of commerce. Power Pl Eng 29:554 My 15 '25; Discussion. 29:659 Je 15 '25

Fuel economy at Southern Pacific power plants. Ry Age 78:284-5 Ja 24 '25; Same cond. Ry Mech Eng 99:94 F '25

Fuel economy in steam plants. A. Grounds. 106p Pitman '24

Fuel economy in superpower stations and small power stations; abstract. J: B. C. Kershaw. Mech Eng 47:49 Ja '25

Fuel economy questions. H. Womersley. Soc Chem Ind J (Chem & Ind) 43:715-18 Jl 11 '24

Fuel economy stations open in five cities. Am Soc Heat & V E J 30:679-82 O '24

Fuel wastes: causes, effects, remedies. R. H. Fernald. il diags Ann Am Acad 111:219-33 Ja '24

Heat-cornerstone of industry. F. W. Parsons. Gas Age 56:673-4+ N 7 '25

How can a mechanical officer effect fuel economy? J: Purcell. Ry Age 78:1389-90 Je 6 '25

How much fuel does a clean boiler save? Sanitary & Heat Eng 102:119-20 Ag 22 '24

Motor design and fuel economy. C. F. Kettering. Ind & Eng Chem 17:1115-16 N '25

Neue wege der energiewirtschaft. Dr Löffler. il diags Zeit Ver Deutsch Ing 68:161-9 F 23 '24

Pressure, superheat, steam extraction and reheating as affecting power plant economy. E. Berg. diags J Fr Inst 197:727-39 Je '24

Recent accomplishments in the field of fuel conservation. S: R. Lewis. Heat & Ven 21:45-6+ S '24

Research in liquid fuel economy. M. Sklovsky. Iron Age 116:1174-5 O 29 '25

Schwedische wärmewirtschaft. H. A. Lundberg. Zeit Ver Deutsch Ing 68:341-2 Ap 5 '24

Small size anthracite fuel and equipment for its economical utilization. C. A. Connell. Am Soc Heat & V E J 31:167-70; Discussion. 170-4 Mr '25

Small-sized anthracite the key to the hard coal fuel conservation problem. Heat & Ven 22:56-8 S '25

Some vital factors in reduction of fuel costs. W. C. Buell, jr. Am Cer Soc J 6:1224-6; Discussion. 1226-7 D '23

Value of efficiency in transforming and distributing energy. C: E. Lucke. diags Mech Eng 46:317-24, 380-5 Je-Jl '24; Excerpts. Power 59:1005-7 Je 17 '24; Engineer 137: 690 Je 20 '24; Abstract. Power Pl Eng 28: 573-4 My 15 '24

Water works coal pile. D. H. Maxwell. Munic Eng 65:17-22 Jl '23; Same. Am Water Works Assn J 10:1072-81 N '23; Same cond. Eng & Contr (W W) 60:84-8 Jl 11 '23

Works problems and methods in fuel economy. R. Hadfield. Gas J (Lond) 166:842 Je 18 '24

See also Boiler plants—Management; Boilers—Gas firing; Boilers—Oil firing; Coal distillation; Coal waste; Combustion; Exhaust steam; Firing; Fuel economizers; Furnaces; Furnaces, Recuperative and regenerative; Furnaces, Warm air—Pipes and fittings; Locomotives—Fuel; Temperature—Regulation; Waste fuel; Waste heat

FUEL purchasing

Contract for purchase of fuel oil. L. Childs. Power Pl Eng 28:442-3 Ap 15 '24

FUEL research

Fuel research board. Gas J (Lond) 168:100-2 O 8 '24

Fuel research board activities of the past twelve months. Gas J (Lond) 172:93-4 O 14 '25

Personal observations on fuel research in Europe. A. C. Fieldner. il Ind & Eng Chem 17:1046-50 O '25; Same. Gas Age 56:733-6+ N 21 '25; Abstracts. Chem Age (Lond) 13: 418-19 O 24 '25; Mech Eng 47:1152 D '25

FULLAGAR engine. See Camellaird-Fullagar engine

FULLER, George Augustus

Sketch. T. Starrett. Arch & Bldg 57:55-6 Jl '25

FULLER brush company

Handling diverse products through many operations. M: W. Potts. il Ind Management 70: 73-6 Ag '25

How we make each selling hour count. T. O. Potter. System 47:491-2+ Ap '25

Sales methods of Fuller brush company. H. R. Simonds. il Iron Tr R 76:809-12 Mr 26 '25

FULLER'S earth

Action of fuller's earth on vegetable oils. D: Wesson. Am Inst Chem Eng Trans v 15 pt 1: 361-6 '23

Adsorption as applied to refining of petroleum products. H. L. Kauffman. Nat Pet N 16:133-4 Ap 16 '24

Die behandlung mit fullererde, eine einfache methode zur reinigung gebrauchter öle. Dr v. d. Heyden and Dr Typke. Elektrotech Zeit 46:1518-20 O 1 '25

Fuller's earth and its application to the petroleum industry. A. Rauch and G. E. Pain. bibliog Inst Pet Tech J 10:687-93; Discussion. 693-4 S '24

Fuller's earth production for 1924 largest on record. Eng & Min J 119:642 Ap 18 '25

Marketing of fuller's earth. A. B. Parsons. Eng & Min J 118:771-3 N 15 '24

Record output of fuller's earth in 1923. Eng & Min J 118:134 Jl 26 '24; Same. Pet Age 14: 53 Jl 15 '24

South produces 92 per cent of the country's fuller's earth. Manuf Rec 86:307 pt 2 D 11 '24

Treating pressure distillate with clay works at Barnsdall plant. P. Truesdell. il diag Nat Pet N 17:23-5 F 11 '25

Use and occurrence of fuller's earth. Soc Dyers & Col J 41:149 Ap '25

FULLING

Finishing low grade woolens. Textile World 66:3725+ D 27 '24

Finishing sample ranges. Textile World 67: 4149 Je 27 '25

Fulling of woolen goods. Textile World 65: 3631 My 31 '24

Soap preparation for fulling. Textile World 66:481+ Jl 26 '24

Soaps and alkalies in fulling. A. W. Davison. Am Dyestuff Rep 13:650+ O 6 '24

FUMARIC acid

Catalytic transmutation of maleic acid into fumaric acid. E. M. Terry and L. Eichelberger. Am Chem Soc J 47:1402-12 My '25

Halogenation of fumaric and maleic acids; a note on the Walden inversion. E. M. Terry and L. Eichelberger. Am Chem Soc J 47: 1067-78 Ap '25

Isothermal reaction velocity in homo-heterogeneous systems in the absence of solvent; with special reference to the conversion of fused maleic acid into fumaric and malic acids. K. Höjendahl. J Phys Chem 28:758-68 Jl '24

Oxidation of fumaric and of maleic acid to tartaric acid. N: A. Milas and E. M. Terry. Am Chem Soc J 47:1412-18 My '25

FUMES, Acid

What a chimney has to do. il diags Chem & Met Eng 31:930-3 D 15 '24

FUMIGATION

Absorption and retention of hydrocyanic acid by fumigated food products. E. L. Griffin and others. il U S Agric Bul 1149:1-16 [bibliog. p. 15-16] '23

FUMIGATION—*Continued*
Fumigation with hydrogen cyanide. W. G. Liston. Soc Chem Ind J (Chem & Ind) 44: 367-71 Ap 10 '25; Discussion. 44:847 Ag 21 '25
Gassing citrus trees in Florida. W. L. Tanner. il Chem & Met Eng 30:942-3 Je 16 '24
See also Disinfection and disinfectants; Ships—Disinfection

FUNCTIONS
Analogy between pure mathematics and the operational mathematics of Heaviside by means of the theory of H-functions. J. J. Smith. J Fr Inst 200:519-34, 635-72, 775-814 O-D '25
Elementary mathematical analysis. C: S. Slichter. 3d ed. 473p McGraw-Hill '25

FUNCTIONS, Besselian. See Bessel's functions

FUNCTIONS, Exponential
Application of hyperbolic functions to electrical engineering problems. A. E. Kennelly. 3d ed. 352p McGraw-Hill '25

FUNGI
Control of decay and molding of wood pulp. C. A. Richards. il diag Tech Assn Pa ser 7:94-9 Je '24; Same. Paper Tr J 78:55-60 My 1 '24
Cultural criteria for the distinction of wood-destroying fungi. C. W. Fritz. 288p. 12 pl Canada. Honorary advisory council for scientific and industrial research, Ottawa '24
See also Bacteriology; Brown rot; Yeasts

Bibliography
Catalogue of the mycological library of Howard A. Kelly. L: C. C. Krieger, comp. 260p L: C. C. Krieger, Baltimore '24

FUNGICIDES
Recent progress in insecticides and fungicides. C. C. McDonnell. Ind & Eng Chem 16:1007-12 [bibliog. p. 1011-12] O '24
Some aspects of research on insecticides and fungicides. C. M. Smith. Soc Chem Ind J (Chem & Ind) 44:417-20 Ap 24 '25
Translation of chemicals into crop yields. G: E. Sanders. Chem Age 32:287-9 Jl '24
See also Spraying materials

FUR
L'identification des fourrures; étude microscopique des poils. C. Génot. diags Chimie & Ind 12:31-48 Jl '24
Reconnaissance méthodique, à l'aide du microscope, des poils d'un certain nombre de mammifères L: Lomuller. diags Chimie & Ind 12:993-1002; 13:24-32; 14:190-200 D '24-Ja, Ag '25 (to be cont)
The skin game; the great fur masquerade. M. Wright. il Sci Am 133:82-3 Ag '25
See also Dyes and dyeing—Fur

FUR cutting
See Felt

FUR storage
Cold storage for furs and fabrics. H. J. Macintire. diags Heat & Ven 21:47-9 Jl '24
Fur storage as a bank service. A. C. Bossom and A. W. W. Marshall. il Bankers M 111: 419+ S '25
Hour in the fur storage warehouse of Revillon Frères, New York city. il plans Am Arch 126:389-92, pl 136-7 O 22 '24

FUR trade
Thousand acres set aside for fur production by Pontiac strain organization. Comm & Fin Chr 121:1405-6 S 19 '25
Trade-mark as consumer protection in limited market. G. A. Nichols. il Ptr Ink M 11:31-2+ S '25
See also Fox farming; Hudson's Bay company

Advertising
Advertising shoulders a new burden. J. W. Beckman. Ptr Ink 130:10+ Mr 5 '25

FUR workers
Fur dressers, Brooklyn, N.Y., labor agreement. Monthly Labor R 20:1270-1 Je '25

FURFURAL
Chemistry of furfural; the preparation of the furan analog of benzoflavin or dimethyldiamino-furyl-acridine hydrochloride. S. A. Mahood and C. R. Harris. Am Chem Soc J 46:2810-13 D '24
Design of column stills with continuous decanters. G. H. Mains. diag Chem & Met Eng 31:307-11 Ag 25 '24
Determination of pentosans in wood cellulose. W. J. Powell and H: Whittaker. Soc Chem Ind J 43:35-6 F 22 '24
Estimation of pentoses and pentosans; the determination of furfural. N. C. Pervier and R. A. Gortner. Ind & Eng Chem 15:1255-60 D '23
Furfural as a paint and varnish remover. Chem Age 32:153 Mr '24
Furfural from corncobs. F: B. LaForge and G. H. Mains. il diags Ind & Eng Chem 15: 499-502, 823-9, 1057-60; 16:356-9 My, Ag, O '23, Ap '24
Molecular association of furfural. F: H. Getman. J Phys Chem 29:395-8 Ap '25
Simultaneous production of pentosan adhesives and furfural from corncobs and oat hulls. F: B. LaForge. Ind & Eng Chem 16: 130-1 F '24
Study of the electrolytic dissociation of some salts in furfural. F: H. Getman. J Phys Chem 28:212-20 Mr '24
2-chloromethyl-furan from 2-furancarbinol. H: Gilman and C. C. Vernon. Am Chem Soc J 46:2576-9 N '24
Ultra-violet absorption spectrum of furfural. F: H. Getman. il J Phys Chem 28:397-401 Ap '24
Use of platinum oxide as a catalyst in the reduction of organic compounds; reduction of furfural and its derivatives. W. E. Kaufmann and R. Adams. Am Chem Soc J 45: 3029-44 D '23

Bibliography
Estimation of pentoses and pentosans. N. C. Pervier and R. A. Gortner. Ind & Eng Chem 15:1260-2 D '23

FURFURYL alcohol
Esters of furfuryl alcohol. J. E. Zanetti. Am Chem Soc J 47:535-6 F '25

FURFURYL furoate
Furfuryl furoate. J. E. Zanetti. Am Chem Soc J 47:1452-3 My '25

FURILDIOXIME
Alpha-furildioxime as a reagent for the detection and determination of nickel. B. A. Soule. Am Chem Soc J 47:981-8 Ap '25

FURNACE arch
Economical operation and maintenance of boiler furnaces. R. June. il diags Blast F & Steel Pl 12:300-2 Je '24; Same. Gas Age 53:426-8 Ap 5 '24
L'emploi de voûtes suspendues Safa-Roubaix sur les foyers à charbon pulvérisé de la nouvelle centrale des Mines de Lens. il diags Génie Civil 87:68-9 Jl 18 '25
Suspended arches gaining in favor. il diags Power Pl Eng 28:38-41 Ja 1 '24
Suspended furnace arch. il diags Engineer 139:361 Mr 27 '25

FURNACE doors
Chain screens bring greater safety to furnace operators. il Safety Eng 50:91-3 Ag '25
Water-cooled door for a furnace. J: McDonald. il Am Mach 62:248 F 5 '25

FURNACE industry and trade
Building furnace sales. Sheet Metal Worker 16:694+ O 23 '25
Conditions existing in furnace industry. F. G. Sedgwick. Sheet Metal Worker 14:955-7 Ja 4 '24
Doing business in a business way. J: P. Wagner. Sheet Metal Worker 15:901-2 D 19 '24
Drift of the furnace industry. W. F. Dunlap. Sheet Metal Worker 16:6-8 F 13 '25
Easy lessons in furnace heating. M. T. Hanlon. Sheet Metal Worker 16:241+ My 8 '25
Educational research and business. J: P. Wagner. Sheet Metal Worker 15:121-2 Mr 14 '24

FURNACE industry and trade—*Continued*
Hints on closing furnace sales. R. C. Nason. il Sheet Metal Worker 16:39-42 F 27 '25
How to make better dealers and eliminate the direct installation evil. Sheet Metal Worker 16:155-6 Ap 10 '25
Live-wire methods of a live-wire furnace dealer; Charles N. Walker roofing co., Atlanta, Ga. il Sheet Metal Worker 16:507-10 Ag 14 '25
Proof that it pays to push furnace sales. il Sheet Metal Worker 15:599-600 Ag 29 '24
Selling furnaces in small towns. il Sheet Metal Worker 16:643-4 O 9 '25
Selling furnaces the modern way. R. C. Nason. Sheet Metal Worker 15:951-2 Ja 2 '25
Some thoughts on warm-air furnace trade extension. Sheet Metal Worker 14:951-3 Ja 4 '24
Western warm-air furnace and supply association annual meeting, Chicago, Dec. 5. Sheet Metal Worker 14:909-11+ D 21 '23
What I have learned about selling heaters. F. H. Williams. il Sheet Metal Worker 15: 238-9 Ap 25 '24
Where can I sell a furnace? L. W. Andrews. Sheet Metal Worker 16:626+ S 25 '25
Why our sales have doubled every second year. A. H. Landwehr. il System 45:325-9+ Mr '24
See also Furnaces, Warm air—Furnace installation code

Advertising

Furnace manufacturer-dealer cooperation. Sheet Metal Worker 16:481-2 Jl 31 '25
Furnace show cases traveling and stationary. il Sheet Metal Worker 15:35-6 F 15 '24
Furnaceman's energetic furnace selling plan. Sheet Metal Worker 15:315 Je 5 '25
Furnaceman's novel advertising idea. il Sheet Metal Worker 15:489+ Jl 18 '24
I do not sell furnaces—I guarantee heat, health, comfort. Sheet Metal Worker 15: 934+ Ja 2 '25
Indiana furnace dealer spends 5 per cent on advertising. Sheet Metal Worker 15:151-2 Mr 28 '24
Newspaper advertising sells 65 furnaces in July. il Sheet Metal Worker 14:819-21 N 23 '23
Secure furnace work now. Sheet Metal Worker 15:617 Ag 29 '24

FURNACES
Braunkohlenschwelöfen. A. Thau. diags Stahl & Eisen 45:388-9 Mr 12 '25
Converting coal furnaces to gas usage. J. E. Meader. il Gas Age 53:495-6+ Ap 12 '24
Design of kilns and furnaces from model tests. F. H. Norton. il Am Cer Soc J 7:783-94 O '24
Flow of gases in furnaces as a function of their temperature drop; abstract. H. Southern. Mech Eng 46:282 My '24
Furnace fire observer. il Power 61:75 Ja 13 '25
Furnace for the determination of the fusing point of coal ash. B. B. Kaplan. diags Ind & Eng Chem 16:847-8 Ag '24
Gas-furnace installations. H. R. Hems. il Gas J (Lond) 166:400-3; Discussion. 403 My 7 '24
High temperature insulation. il Iron Tr R 76:151-3 Ja 8 '25
Loss of heat from furnace walls. R. Calvert and L. Caldwell. bibliog il diags Ind & Eng Chem 16:483-90 My '24; Abstract. Mech Eng 46:351-2 Je '24
More heat from the pound of coal; adapting the carbureter and Bunsen burner principles of air control to the furnace. W. S. Timmis. il Sci Am 131:26 Jl '24
New gas combustion furnace. T: J. Hedley. diag Soc Chem Ind J 42:432-3 N 9 '23
New type of oxy-acetylene fusion furnace, with notes on the behavior of refractories at cone 40. A. F. Gorton and W. H. Groves. il Am Cer Soc J 8:768-73 N '25
Radiant heating system; furnace construction for the varnish industry. diags Chem & Met Eng 30:279 F 18 '24
Recuperative oil smelter. R. McDougall. il Am Cer Soc J 8:541-5 Ag '25
Refractory brick. V. C. Faulkner. Foundry 53:271 Ap 1 '25
Suggestions on furnace design. diags Chem & Met Eng 30:322-3 F 25 '24
Utilization of pulpwood bark for fuel. J: D. Rue and E. P. Gleason. il chart diags Tech Assn Pa ser 7:49-59 Je '24; Same. Paper Tr J 78:40-50 Ap 17 '24
See also Blast furnaces; Boilers; Clinkers; Coke ovens; Crucibles; Cupola furnaces; Draft; Electric furnaces; Electric heaters; Fire brick; Firing; Fuel; Fuel economy; Furnace doors; Glass manufacture; Glass pots; Glass tanks; Grates; Heating; Kilns; Mechanical draft; Oil burners; Refractory materials; Refuse incinerators; Sulfur burners

Safety devices and measures

A paradox: using steam to prevent burns. E. H. Trick. il Factory 33:653 N '24

FURNACES, Annealing
Furnace installation for heating nickel. G: Ellerton, jr. il Iron Age 114:1595-7 D 18 '24
Heat treating—its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. diags Iron Tr R 74:671-3, 799-803 Mr 6, 20 '24
New annealing equipment for strip steel. il diags plan Iron Age 114:907-9 O 9 '24
Pulverized coal at Trumbull steel mills. il diags Iron Age 115:885-8 Mr 26 '25

Repair

Line annealing furnace bungs. M. F. King. il diags Foundry 53:535+ Jl 1 '25; Same abr. Iron Tr R 76:1642 Je 25 '25

FURNACES, Boiler
Betriebserfahrungen mit einer kipprostanlage. diags Elektrotech Zeit 45:628 Je 12 '24
Boiler furnaces for pulverized coal. A. G. Christie. Mech Eng 47:632-5; Discussion. 635-6 Ag '25; Discussion. H. W. Brooks. Power Pl Eng 29:655-7 Je 15 '25; Same abr. Power 61:926-7 Je 9 '25
Brick-to-brick bond for furnace walls. Elec W 84:745 O 4 '24
CombustiKator. il Power 62:622 O 20 '25
Construction of bridge walls. Power Pl Eng 28:37-8 Ja 1 '24
Control of power production. C: L. Hubbard. diags Factory 33:350-4 S '24
Dampfkesselroststäbe mit schutzüberzug. R. Hopfelt. il Zeit Ver Deutsch Ing 69:411-14 Mr 28 '25; Abstract (Aluminum as a protective coating for gratebars). Power 61:874 Je '25
Do water-cooled furnace walls increase boiler efficiency? Power 61:542, 881; 62:337 Ap 7, Je 2, S 1 '25
Dutch ovens for bagasse. J. O. Frazier. diags Power 60:682-3 O 28 '24
Economical operation and maintenance of boiler furnaces. R. June. Blast F & Steel Pl 12:251-3+, 300-2 My-Je '24; Same. Gas Age 53:309-11+, 426-8 Mr 15, Ap 5 '24
Fire observer permits thorough furnace inspection. il Power Pl Eng 29:719 Jl 1 '25
Furnace construction. il diags Power Pl Eng 28:35-6 Ja 1 '24
Furnace design important in burning oil. il diags Power Pl Eng 28:63-6 Ja 1 '24
Furnace designs for coal and wood refuse. C. M. Garland. diags Power 61:406-9 Mr 17 '25
Furnace engineering co. constant temperature furnace. diag Power 62:30-1 Jl 7 '25
Furnaces for burning small sizes of anthracite. A. R. Mumford. diags Mech Eng 46:138-42 Mr '24; Same. Coal Age 25:389-94 Mr 13 '24; Same cond. Power 59:284-7 F 19 '24; Same cond. Power Pl Eng 28:272-6 Mr 1 '24
Furnaces for burning wet wood refuse. J. F. Nagle. diags Power 61:916-17 Je 9 '25
Furnaces for burning wood refuse. diags Power Pl Eng 28:68-70 Ja 1 '24
Gas can be burned with higher efficiency than other fuels. diags Power Pl Eng 28:66-7 Ja 1 '24
Gas temperatures throughout boilers burning pulverized coal. J. G. Coutant. Power 62: 579-80 O 13 '25

FURNACES, Boiler—*Continued*
Generation of power with factory refuse. F. Johnstone-Taylor. diags Power Pl Eng 28: 326-8 Mr 15 '24
Heat losses from boiler furnace walls. L. B. McMillan. Power Pl Eng 29:944-6 S 15 '25
How to determine furnace volume. Power Pl Eng 29:815 Ag 1 '25
Insulation of furnace walls. C. O. Sandstrom. Power Pl Eng 28:200-1 F 1 '24
Lowering furnace upkeep. F. Juraschek. il Ind Management 70:48-52 Jl '25
Maintaining furnaces in the paper mill. H. C. Evans. il Paper Tr J 80:47-50 Ja 15 '25
Making your furnace suit your fuel. F. Juraschek. il diags Ind Management 69:285-90 My '25
Method of selecting refractories for marine purposes of the navy. H. H. Norton and R. L. Porter. il Am Cer Soc J 7:575-80; Discussion. 580-2 Jl '24
Murray water-lined furnace walls for power station boilers. il diags Engineering 119:71-4, pl 5 Ja 16 '25; Discussion. H. W. Leitch. 119:352 Mr 20 '25
New furnace design permits burning heavy oil. il diags Power Pl Eng 29:689-90 Jl 1 '25
Preliminary findings in refractory investigations. R. A. Sherman and others. Power 62: 234-7, 277-80 Ag 18-25 '25; Discussion. M. C. Booze. 62:776 N 17 '25
Problems in boiler furnace design. E. B. Ricketts. diags Power Pl Eng 28:473-6 My 1 '24; Same cond. Power 59:780-2 My 13 '24
Radiation in the pulverized-fuel furnace. W. J. Wohlenberg and D. G. Morrow. Mech Eng 47:627-32 Ag '25; Abstract. Power Pl Eng 29:583-5 Je 1 '25; Discussion. Mech Eng 47:636 Ag '25
Recent developments in the burning of anthracite. W. A. Shoudy and R. C. Denny. diags Mech Eng 47:573-7; Discussion. 577-9 Jl '25; Abstract. Power Pl Eng 29:178-82 F 1 '25
Recuperator for balanced-draught furnaces. diag Engineering 119:226 F 20 '25
Specification of grates for boiler furnaces. V. E. Holyoke. Power 62:566 O 13 '25
Suggestions on boiler furnace design. C. M. Garland. Power 61:176-8 F 3 '25; Discussion. 61:427-8, 841-2 Mr 17, My 26 '25
Thin joints and durable furnace walls. H. Weightman. Power Pl Eng 28:435 Ap 15 '24
Use of liquid and gaseous fuels. il diags Power Pl Eng 29:384-6 Ap 1 '25
Utilization of wood waste as fuel in steam power plants; abstracts. H. W. Beecher and others. il diags Mech Eng 47:545-54 Jl '25; Power 62:304-5 Ag 25 '25; Power Pl Eng 29:837-40 Ag 15 '25; Discussion. Mech Eng 47:773-5 S '25; Power Pl Eng 29:1016-17 O 1 '25
Water-cooled boiler furnace walls; abstracts. H. D. Savage. diags Iron Age 115:1642-3 Je 4 '25; Iron Tr R 76:1424 My 28 '25; Engineer 140:121-3 Jl 31 '25; Mech Eng 47:671 Ag '25
Water-cooled furnaces. H. D. Savage. diags Mech Eng 47:197-9 Mr '25; Same. Power Pl Eng 29:227-9 F 15 '25; Same cond. Power 61:234-5 F 10 '25; Discussion. Mech Eng 47: 199-200 Mr '25; Power 61:235 F 10 '25
Water-wall boiler furnace is 92 per cent efficient. Elec W 83:638 Mr 29 '24
Why does the temperature of the furnace walls increase after fires are extinguished? Power 59:995; 60:262, 468 Je 17, Ag 12, S 16 '24
Wichtige neuerungen im bau amerikanischer dampfkesselfeuerungen. H. Bleibtreu. diags Stahl & Eisen 45:1549-55 S 10 '25

See also Boilers

Lining

Furnace linings and arches. J. W. Fowler. Power 60:543 S 30 '24
Improvements in furnace lining material. il diags Power Pl Eng 28:41-2 Ja 1 '24
Monolithic lining for boiler furnaces; plibrico. il Textile Col 47:512-14 Ag '25
Refractory linings for furnaces. J. C. Martin, jr. Power 59:465 Mr 18 '24

Repair

Boiler wall is repaired with old linings. diag Iron Tr R 75:1304 N 13 '24; Same. Blast F & Steel Pl 12:520-1 N '24
Furnace linings. G. B. Randall. il Power 60: 146-7 Jl 22 '24
Ground firebrick for furnace repair. J. Harrington. il Power 59:976-8 Je 17 '24; Discussion. 61:112; 62:182 Ja 20, Ag 4 '25
Reconstructing walls of furnaces. Chem & Met Eng 31:549 O 6 '24; Same. Elec W 84: 1312-13 D 20 '24
Reducing the cost of relining boiler furnaces. il Power 59:1028-30 Je 24 '24

Turbine furnace

Modern steam-jet furnace. il diags Gas J (Lond) 163:870-2 S 19 '23; Mech Eng 46:44-5 Ja '24
New furnace solves problem of burning anthracite dust. C. H. S. Tupholme. diags Coal Age 25:175-6 Ja 31 '24
Turbine forced draught furnace. il diags Electrician 92:164 F 8 '24
Turbine furnace at Cardiff. Chem Age (Lond) 11:555 N 29 '24

FURNACES, Brass melting

Brass melting furnace with integral gas producer. diags Foundry 53:212 Mr 1 '25
Economy in brass furnace operation. il Ry R 73:739 N 17 '23
Hermansen furnaces for the brass industry. diags Brass W 20:233 Jl '24; Metal Ind 22: 458 N '24
Saving the heat of waste flue gases. il diags Chem & Met Eng 31:901-2 D 8 '24
Uniform results in brass and bronze casting. Brass W 20:393 N '24

See also Electric furnaces, Brass melting; Furnaces, Non-ferrous melting

FURNACES, Cupola. See Cupola furnaces

FURNACES, Electric. See Electric furnaces

FURNACES, Enameling

Electricity versus oil for heating iron enameling furnaces. H. A. Mulvaney. il J Elec 52: 487-90 Je 15 '24
Gas-fired enameling furnaces without muffles. H. H. Clark. Am Cer Soc J 8:623-5 O '25
Heat balance of a gas fired enameling furnace. L. E. Biemiller. il Gas Age 53:621-2+ My 3 '24
Report of the committee on enameling furnaces for wet process cast iron enamels. Am Cer Soc J (Bul) 8:191-2 Ap '25

See also Electric furnaces, Enameling

FURNACES, Forging

Recuperation for oil and gas heated furnaces. A. E. Walden. diags Gas Age 53:97-8+ Ja 26 '24

FURNACES, Foundry

Correct and incorrect use of fuel oil. H. A. Anderson. il diags Ry Mech Eng 98:169-74 Mr '24; Same cond. Foundry 52:29-30 Ja 1 '24; Same cond. Iron Age 113:518-19 F 14 '24

See also Cupola furnaces; Electric furnaces, Foundry; Electric furnaces, Iron founding; Foundry practice; Furnaces, Iron founding; Furnaces, Non-ferrous melting

Charging

Change in type of furnace charger. W. J. MacNeill. Factory 35:225 Ag '25

FURNACES, Heat treating

Betriebsuntersuchungen an kohlenstaubbeheitzten blockwärmöfen. A. Weyel. diag Stahl & Eisen 44:977-9 Ag 14 '24
Le chauffage au charbon pulvérisé d'un four poussant à billettes. il plan Génie Civil 84: 621-3 Je 28 '24
Competitive tests of gas and electric furnaces. Elec W 84:1261 D 13 '24
Continuous heat-treating furnaces. H. M. Groff. diags Mach 31:10-12 S '24
Development of a novel cyanide hardening process. C: Ringstrom. il diags Gas Age 53: 871-3 Je 21 '24

FURNACES, Heat treating—*Continued*
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 122:349-50+ Ap 25 '25
Gas for general heat treatment work. H. R. Hems. Gas J (Lond) sup 4:63-4 Mr 25 '25
Gas furnaces applied to the steel industry; abstracts. S. A. Sears. Engineering 119:275-6 F 27 '25; Gas J (Lond) 169:524 Mr 4 '25; Engineer 139:352 Mr 27 '25
Handling work in hardening baths; equipment for hardening work in cyanide and lead baths. C. T. Ketz. diags Mach 31:703-4 My '25
Heat treating at the Chevrolet plant. il Iron Age 114:129-31 Jl 17 '24
Heat-treating furnaces of continuous type. G. L. Lacher. il Iron Age 113:1067-72 Ap 10 '24; Same. Automobile Eng 14:364-7 N '24
Heat treating malleable castings prior to galvanizing. il diag Iron Tr R 76:383-4 F 5 '25
Heat treatment of automobile parts. J. M. Watson. il Automotive Ind 51:602-4 O 2 '24
Individual heat treatment will improve quality of product. C. N. Dawes. il Automotive Ind 50:177 Ja 24 '24
Modern gas-fired heating equipment. il Am Mach 63:625 O 15 '25
New furnaces of continuous type installed to raise quality and production. il Brass W 21: 79-81 Mr '25
New heat treating furnaces with 23 burners for each furnace installed in axle plant. il Iron Age 114:509-10 Ag 28 '24
Sliding doors vs. chains on tempering furnaces. J. M. Schappert and F. H. Korff. diags Am Mach 60:597 Ap 17 '24
Wire mill uses city gas for fuel. J. M. Layng. il Iron Age 116:275-8 Jl 30 '25; Same. Gas Age 56:509-10+ S 19 '25

See also Electric furnaces, Heat treating; Furnaces, Annealing

FURNACES, Heating
Efficiency of heating furnaces. E. H. Koenig. Iron Tr R 77:249-53 Jl 30 '25
Furnace volume comparisons. J. G. Coutant. diags Blast F & Steel Pl 13:156-8 Ap '25
Selas system of controlling gas furnaces. il diags Engineering 120:555-6 O 30 '25
Some aspects of oxygen enrichment of combustion air in heating-furnace practice. W. C. Buell, jr. Eng Soc W Pa 41:133-43; Discussion. 144-55 My '25

FURNACES, Iron founding
Malleable furnace fired with pulverized coal. W. Hathaway. il Foundry 53:824-8+ O 15 '25; Discussion. 54:12-13 Ja 1 '26
Principal refractory problems of the malleable cast iron foundry. H. A. Schwartz. Am Cer Soc J 8:708-11 N '25; Same abr. Foundry 53:203-4 Mr 1 '25
Pulverized coal for malleable furnaces. il Iron Age 113:1633-5 Je 5 '24
Pulverized fired malleable furnaces. S. Westberg. diags Blast F & Steel Pl 13:46-7 Ja '25
Refractory requirements in the gray iron foundry R: Moldenke. Am Cer Soc J 8: 712-17; Discussion. 717-19 N '25
Survey refractories in malleable industry. Foundry 53:598+ Ag 1 '25
Uniformity in ladle iron; waste heat boiler and reverberatory-type melting furnaces equipped with pulverized coal system. H. R. Simonds. il Iron Tr R 76:628-30 Mr 5 '25; Same. Foundry 53:480-2 Je 15 '25
Use oil in malleable furnace. B. R. Mayne and C. Joseph. diags plans Foundry 52:472-5 Je 15 '24

See also Cupola furnaces; Electric furnaces, Iron founding

FURNACES, Metallurgical
Boosting flame temperatures with the electric arc. G: T. Southgate. il diags Chem & Met Eng 31:16-19 Jl 7 '24
Combustion of sulphur-containing materials in hand and mechanical burners. P. Parrish. il diags Soc Chem Ind J 44:307-17, 321-5, 366-70 Jl 3-17 '25; Abstract. Chem Age (Lond) 12:350-2 Ap 11 '25
La formation des loups dans les fours à cuve. B. Bogitch. Génie Civil 84:360-1 Ap 12 '24
Hand and mechanical burners for the combustion of sulphur-containing materials. Chem Age (Lond) 12:374 Ap 18 '25
Mactear-Franks mercury furnace. W. E. Franks. Eng & Min J 119:692-3 Ap 25 '25
Proposed type of ore-roasting furnace; intended for dead roasting zinc blende. D. M. Kerr. diags Eng & Min J 118:954-5 D 13 '24

See also Blast furnaces; Cupola furnaces; Electric furnaces, Metallurgical; Puddling furnaces

Repair
Reverberatory furnace repairs. F. R. Corwin. diag Eng & Min J 117:889 My 31 '24

FURNACES, Non-ferrous melting
Atomized coal for nonferrous melting, said to eliminate porosity. R. Black and C. L. Shafer. Brass W 21:353-4 O '25; Same. Metal Ind 23:403-4 O '25
Non-ferrous foundry metallurgy. Iron Age 116:1115 O 22 '25
Refractories used in aluminum melting. R. J. Anderson. Foundry 52:357-8 My 1 '24

See also Electric furnaces, Non-ferrous melting; Furnaces, Brass melting

FURNACES, Open hearth. See Open hearth furnaces; Open hearth process

FURNACES, Recuperative and regenerative
Checker brick for resisting alkaline slags. M. C. Booze and F. C. Flint. il Am Cer Soc J 7:594-8 Ag '24
Development of the recuperator. E. R. Posnack. il Blast F & Steel Pl 13:327-9 Ag '25
Heat-treating furnaces using recuperation. P. J. Nutting. il Iron Age 113:1156-7 Ap 17 '24
New furnaces serve forge press. il Iron Tr R 75:1648-50 D 18 '24
Open-hearth furnace regenerators. F. B. Quigley. diags Engineering 117:29-32 Ja 4 '24
Recovery of waste heat from furnaces. W: N. Booth. Gas J (Lond) 170:49-53 Ap 1 '25
Recuperation and recuperators; various types of heat recovery devices now in service. C: Longenecker. Blast F & Steel Pl 13:120-1 Mr '25
Recuperation offers definite savings. E. R. Posnack. diags Blast F & Steel Pl 13:403+ O '25
Saving the heat of waste flue gases. il diags Chem & Met Eng 31:901-2 D 8 '24
Theoretical considerations respecting certain features in the working and efficiency of reversing regenerators. J. Seigle. diags Iron & Steel Inst J 109:257-303; Discussion. 304-11 no 1 '24
Die untersuchung eines regenerativ-stossofens. G. Neumann. diags Stahl & Eisen 44: 1611-19 D 11 '24

FURNACES, Reverberatory
Isothermen des flammenflusses in hüttentechnischen oefen. R. Dawidowski. il diags Stahl & Eisen 45:1265-73 Jl 23 '25

FURNACES, Steel making
European producer practice; gas operated furnaces reward engineers in search. C. H. S. Tupholme. diags Blast F & Steel Pl 12: 401-6 S '24
Makes steel from unselected scrap. S. H. Bunnell. diag Iron Tr R 77:559 S 3 '25
Messrs Brown Bayley's steel works. il diags plan Engineering 120:192-6, 256-8, 567-70, 619-21 pl 14, Ag 14, 28, N 6-13 '25
Operation costs of reheating furnaces reduced. H: L. Read. il Iron Age 113:1864-5 Je 26 '24
Pair heating. W: C. Buell, jr. il Blast F & Steel Pl 12:122-3, 159-60, 188-90 F-Ap '24
Rolling alloy steel. J. Clausen. il diags Blast F & Steel Pl 12:113-16+ F '24

See also Electric furnaces, Steel making; Open hearth furnaces; Open hearth process

FURNACES, Warm air

Biggest furnace in the world; furnace exhibit of R. J. Schwab & sons co. at Wisconsin state fair. il Sheet Metal Worker 16:617+ S 25 '25

Facts about furnace insulation. D. Tulloch, jr. Sheet Metal Worker 15:540-1 Ag 1 '24

Heat emission from heating surfaces of furnace. A. P. Kratz. diag Am Soc Heat & V E J 30:29-33 Ja '24; Discussion. 30:263-4 Mr '24

Installing gas warm air heaters in the home. O. J. Kuenhold. Gas Age 56:547-8+ O 10 '25

Investigation of warm-air furnaces and heating systems. A. C. Willard, A. P. Kratz and V. S. Day. il diags plans Ill U Eng Exp Sta Bul 141:1-152 '24

Proper design of the gas-fuel furnace. H. V. Payne. il Sheet Metal Worker 15:863-4+, 935-6 D 5 '24, Ja 2 '25

Return-air connections. diags Sheet Metal Worker 16:451-2 Jl 17 '25

Syracuse does it; specially designed hot air installation found satisfactory. J. Lucena. diags Gas Age 55:544+ Ap 11 '25

What sales features do warm air furnaces offer? O. J. Kuenhold. Gas Age 55:785-6; 56:89-90 My 30, Jl 18 '25; Same (pt 2). Sheet Metal Worker 16:483-4+ Jl 31 '25

See also Furnace industry; Heating, Fan blast; Heating, Warm air

Furnace installation code

Getting the code to the public. C. I. Merrett. Sheet Metal Worker 16:198+ Ap 24 '25

Necessity of using standard code. J: H. Hussie. Sheet Metal Worker 16:411-12 Jl 3 '25

Warm-air heating progress. J. H. Hussie. Sheet Metal Worker 16:404+ Jl 3 '25

Joints

Facts you should know about asbestos furnace cement. W: P. Werner. il Sheet Metal Worker 15:286-8 My 9 '24

Pipeless furnaces

Cultivate furnace work in farm field. diag Sheet Metal Worker 16:122+ Mr 27 '25

Pipes and fittings

Effect of length of leader pipe on heating capacity in gravity warm-air heating system. V. S. Day. il diags Am Soc Heat & V E J 31:343-8 Je '25; Same. Sheet Metal Worker 16:380-1+ Je 19 '25

Experiences on first furnace repair job. E. E. Zideck. Sheet Metal Worker 16:126-7, 235-6 Mr 27, My 8 '25

Recirculating ducts of two types. diags Sheet Metal Worker 15:324-5 My 23 '24

Rating

Application of furnace rating formula. V. S. Day. Sheet Metal Worker 16:86 Mr 13 '25; Same. Heat & Ven 22:80-1 Ap '25

Rating the warm-air furnace. A. C. Willard. Sheet Metal Worker 15:943-4+ Ja 2 '25; Same. Heat & Ven 22:79-81 F '25

Repair

Procedure control for oxwe'ding cast iron heater sections. il Sanitary & Heat Eng 104:136-8+ S 4 '25

Testing

Performance of a warm-air furnace with anthracite and bituminous coal. A. P. Kratz. diag plan Am Soc Heat & V E J 30:383-9 My '24

Tests of furnace bonnets of three types. diags Sheet Metal Worker 15:421-2+ Je 20 '24

FURNITURE

American wing of the Metropolitan museum of art. Arch & Bldg 56:103-6, pl 216-19 N '24

Architectural influence on furniture design. il diags Am Arch 127:77-82 Ja 28 '25

Combining furniture of different periods. A. Lowden. il Arch Forum 43:255-6 O '25

Decorative furniture; a picture book of the beautiful forms of all ages and all periods. G: L. Hunter. 480p Good furniture magazine, Grand Rapids '23

English furniture. J: C: Rogers. 187p Scribner '23

English furniture at a glance. C: H. Hayward. 106p Putnam '25

Furnishing and decoration of a country club. B. Phillips. il Arch Forum 42:149-52 Mr '25

Furniture of the Pilgrim century (of American origin) 1620-1720. W. Nutting. 716p Old America co., Framingham, Mass. '24

Old English furniture of the 15th, 16th, 17th and 18th centuries. G: O. Wheeler. 3d ed. 617p Bazaar house, London '24

The old-world house; its furniture and decoration. H. Cescinsky. 2v Macmillan '24

Projects in furniture making. F: A. Adams. 93p Bruce pub. co., Milwaukee '24

Putting furniture problems up to the builder. E. H. Ries. il Bldg Age 46:98-9 Mr '24

Scale of interior details. il diags Am Arch 126:377-82 O 22 '24

Sun porch; its decorations and furnishings. il Am Arch 126:57-62 Jl 16 '24

Wooden furniture. Survey of Cur Business 39: 96 N '24

See also Cabinet work; Chairs; Drapery; Interior decoration; Library furniture; Tables; Upholstery

Dictionaries

Glossary of English furniture of the historic periods. J. G: J. Penderel-Brodhurst and E. J. Layton. 196p J. Murray, London '25

FURNITURE, French

French furniture in the middle ages and under Louis XIII. R. De Félice. 152p Stokes

Several types of French tables. C. Bill. il Arch Forum 42:127-8 F '25

Some notes on French furniture. P. Dutel. il Arch Forum 42:273-6 Ap '25

FURNITURE, Metallic

Large uses of steel in small ways; steel furniture. il Iron Tr R 77:194, 314 Jl 23, Ag 6 '25

Metal household furniture. P. E. Graff. il Dun's Int R 43:50-2 My '24

Round table promotes efficiency in metal furniture shop. E. C. Barringer. il Iron Tr R 76:1637-41 Je 25 '25

Sheet metal furniture. W. Scholl. diags Sheet Metal Worker 15:644-5, 753-4 S 12, O 24 '24

FURNITURE factories

Southern furniture plants apply modern management with success. C: F. Scribner. Management & Adm 9:521-4; 10:83-6, 145-8, 217-20, 267-70, 349-52 Je, Ag-D '25

Accounting

Suggestion for cost accounting. P. K. Guillow. plan Ind Management 69:174-6 Mr '25

FURNITURE industry and trade

Buyer comes to seller; why New York goes to Grand Rapids to buy its furniture. R. R. Rau. Nation's Business 13:64+ Ap '25

Furniture manufacturers and refrigerator firms plead guilty to charges of violating Sherman anti-trust act. Comm & Fin Chr 121:289 Jl 18 '25

Improvement noted in furniture trade. Dun's R 33:8-9 O 31 '25

Indictments against furniture manufacturers. Comm & Fin Chr 120:3021-2; 121:543 Je 13, Ag 1 '25

Irregularity in production of furniture. Dun's R 33:8-9 Jl 4 '25

Little decline in furniture distribution. Dun's R 32:10-11+ Jl 5 '24

Moderate falling off in furniture output. Dun's R 33:10-11+ Mr 7 '25

Quiet conditions in furniture industry. Dun's R 32:10+ Mr 8 '24

Raise the quality of the product without raising the price. Z. G. Simmons. Ptr Ink M 11:21-2+ S '25

St Louis furniture a household word. Am Ind 26:38+ O '25

FURNITURE industry and trade—*Continued*
Sharp increase in furniture production. Dun's R 32:8-9 N 1 '24
South's position in the furniture industry. W. J. Matherly. Manuf Rec 86:103-4 Jl 3 '24
We use collections as a sales tool. J: M. Smyth. il System 48:557-9 N '25
Wooden furniture. Survey of Cur Business 36:112 Ag '24

Advertising

Advertising that has taught consumers better buying habits; furniture industry. L. S. Arthur. Ptr Ink M 7:23-4+ D '23
Can department stores compete with furniture manufacturers? C: G. Muller. Ptr Ink 130: 57-8+ Mr 12 '25
Drive on "gyp" furniture advertisers starts in Detroit. G. A. Nichols. Ptr Ink 131:108+ Ap 9 '25
Furniture industry warned against continuing fraudulent advertising practices. Ptr Ink 127: 107-8 Ap 3 '24
Making people fight for a home. V. E. Coulter. Ptr Ink 127:146+ Je 19 '24
Planning direct advertising in the furniture field. R. E. Ramsay. Inland Ptr 75:919-22 S '25
Their heaviest competition comes from outside the industry. C: G. Muller. Ptr Ink M 11:41-2 O '25
When advertising's theme is the home beautiful. il Ptg Art 44:37-43 S '24

Directories

American homes bureau annual reference book, 1925. American homes bur., Chicago '24

FURNITURE varnish. See Varnish and varnishing

FURRIERS
Furriers—New York city. Monthly Labor R 19:600-3 S '24

FURYL carbinols
Platinum oxide as a catalyst in the reduction of organic compounds; the reduction of alkyl furyl carbinols. J. S. Pierce and R. Adams. Am Chem Soc J 47:1098-1104 Ap '25

FUSAIN
On fusain and its oxidation; studies in the composition of coal. F: V. Tideswell and R: V. Wheeler. Chem Soc J 127:125-32 Ja '25

FUSED quartz. See Silica, Fused

FUSED silica. See Silica, Fused

FUSEL oil
Bauer oil, the high-boiling residue from molasses fusel oil; a source of capric acid. C. S. Marvel and F. D. Hager. Am Chem Soc J 46:726-31 Mr '24

FUSION
Critical studies on the fusion of rare-metal ores; the pyrosulfate fusion of titanium ores. G: W. Sears and L. Quill. Am Chem Soc J 47:922-9 Ap '25

FUSION, Heat of
Heats of fusion of trinitrotoluene, tetryl and picric acid. W: H. Rinkenbach and R. E. Hall. Am Chem Soc J 46:2637-9 D '24
Latent heats of fusion; palmitic acid and benzene. K. Stratton and J. R. Partington. Philos Mag 6th ser 48:1085-9 D '24
Specific heats and latent heats of fusion of ice and of several organic compounds. O. Maass and L. J. Waldbauer. Am Chem Soc J 47:1-9 Ja '25

FUSTIC
Interesting sources of natural dyestuffs; the origin of the word fustic. C. D. Mell. Textile Col 46:445-6 Jl '24
Thorny fustic. C. D. Mell. il Textile Col 46: 310 My '24
To tell fustic from quercitron. C. F. Green. Textile Col 47:379 Je '25

FUTURES
Prices of grain and grain futures. J: F. Fennelly. Comm & Fin 14:2159 N 4 '25
See also Speculation

FYNN-WEICHSEL motor. See Electric motors, Induction-Synchronous

G

GABBRO
Contact effects of gabbro and granite on ore deposition. G. M. Schwartz. Econ Geol 19: 681-4 N '24

GABLES
Gables, dormers and chimneys in old Dijon. Am Inst Arch J 13:13-15 Ja '25

GABRIEL snubber manufacturing company
Official statement to the New York stock exchange. Comm & Fin Chr 121:991-3 Ag 22 '25

GAGE cocks
Method of maintaining gage cocks. C. H. French. diags Am Mach 61:821 N 20 '24

GAGE steel
Progress of gage steel investigation. Am Mach 61:607-8 O 16 '24
Research reveals properties of steels used for gages. Automotive Ind 50:759-60 Ap 3 '24

GAGES
Adjustable gage for testing location of holes. F. H. Mayoh. diags Mach 31:647-8 Ap '25
A.P.I. reference master gages for cable drilling tool joints. Am Pet Inst Bul 6:13-15 S 4 '25
Berechnung der streckovalkaliber. E. Mercader. Stahl & Eisen 44:361-3 Ap 3 '24
Built-up snap gage. E. F. Creager. diags Am Mach 62:547 Ap 2 '25
Built-up snap gages. R. Wagner. diag Mach 31:818 Je '25
Center of Bourdon spring gage. diag Power 61:73 Ja 13 '25
Complete gaging system fosters pride in maintaining high quality. W. L. Carver. il Automotive Ind 51:472-6 S 11 '24
Device for testing wire wheels. H. C. Ten Horn. diags Mach 31:793-4 Je '25
Direct-reading surface gage. D. A. Hampson. il Am Mach 62:546 Ap 2 '25
Dykon gage devised for protecting diamonds from abuse. diags Iron Age 114:16 Jl 3 '24; Ry Mech Eng 98:568 S '24
Fuse-hole inspection gage. W. R. Graham. diags Mach 31:679-80 My '25
Gage for testing shaft diameter. C: A. Wahlgren. diag Mach 31:890 Jl '25
Gage for testing taper pins. il Am Mach 61: 665; 62:665 O 23 '24, Ap 23 '25
Gage problems of the Ordnance department. C. C. Williams. il Am Mach 60:791-3 My 29 '24
Gage with diamond points for gaging the pins of an automobile crankshaft. C: F. Stein. diags Mach 31:680-1 My '25
Gages, a key problem. G. K. Burgess. Soc Auto Eng J 16:456-7 Ap '25
Gages produced in a university shop. C. J. Starr. il Am Mach 60:181-2 Ja 31 '24
Gaging at the point of manufacture. F. H. Mayoh. diags Mach 31:597-601 Ap '25
Gaging device for small rifle shells. T. E. Welsh. diag Mach 31:813-14 Je '25
Gauging of finish-ground worms by cylinders. H: E. Merritt. diags Engineer 138:162-3 Ag 8 '24
Gaging wrought steel wheels for car and tender. A. Knapp. diags Ry Mech Eng 98: 164-7 Mr '24; Discussion. 98:224-7 Ap '24
Graduating a planer gage. R. P. Chandler. diag Mach 31:800 Je '25
Influence of numerous handlings on inspection cost. A. H. Frauenthal. il diag Soc Auto Eng J 15:158-60 Ag '24

GAGES—*Continued*
Inspection gages and methods; vacuum sweepers. il Am Mach 62:584-5 Ap 9 '25
Inspection gages for truck universals. il Am Mach 62:742-3 My 7 '25
Internal gauge for cylinders. il diag Engineering 119:163 F 6 '25; Automobile Eng 15: 24 Ja '25
Keeping track of quality. A. H. Frauenthal. il Am Mach 62:7-11 Ja 1 '25
Master gages and the higher courts in measuring. J. K. Wood. Am Mach 62:873-6 Je 4 '25
La mesure industrielle des longueurs; étalons de mesures et systèmes à tolérances. H. Stroh. il diags Génie Civil 84:594-7, 615-17 Je 21-28 '24
Micrometer and snap gage in one. il Sci Am 129:414 D '23
Modern gaging methods and gages. J. K. Wood. il diags Am Mach 62:305-10 F 19 '25
Modern gaging practice. A. A. Dowd and F. W. Curtis. 280p Engineering magazine co., New York '25
Multiplying recess gage. A. A. Dowd. diags Am Mach 60:598 Ap 17 '24
New standard gage for steel wheels. diag Ry Mech Eng 97:819 D '23; Ry R 73:842 D 8 '23
New use for the A.R.A. steel wheel gage. A. B. Crandall. diags Ry Mech Eng 98:420-1 Jl '24
Pitch-testing gage. E: M. Heiser. diags Mach 31:889-90 Jl '25
Plug gage for rapid inspection. il Ry Mech Eng 99:656 O '25
Progressive inspection gage for valve rocker. P. F. Shafran. diags Mach 31:680 My '25
Proposed tolerances on plug gages. Am Mach 61:184 Jl 31 '24
Radius inspection gages. R. L. Hill. diag Mach 31:794 Je '25
Science at the British Empire exhibition. il diags Engineering 117:773-6; 118:128-9 Je 13, Jl 25 '24
Sheetmakers will discuss sheet gages. Iron Tr R 77:656 S 10 '25
Sine bar as a universal planing gage. R. H. Rausch. il diags Mech Eng 46:345-8 Je '24
Standard tolerances and allowances for machined fits; first report of A.S.M.E. committee. diags Mech Eng 45:699-702 D '23
Subito snap gauge. il diag Engineering 120: 259 Ag 28 '25
Two gages for aero-engine cylinders. W. H. Thompson. il diags Am Mach 60:297-8 F 21 '24
When every man's gage set a different standard. il Am Mach 62:832 My 28 '25
Workmanship—the new direct system of size control by the micrograph. P. J. Darlington. il Sibley J 38:92-6 Ap '24
Workshop gauges and measuring appliances. L: Burn. 154p [bibliog. p. 148-9] Pitman '24
Zeiss thread-measuring instruments. il diags Am Mach 62:861-2 My 28 '25; Automobile Eng 15:232-3 Jl '25

See also Draft gages; Micrometers; Oil gages; Pressure gages; Screw threads; Strain gages; Water gages

Inspection

Systematic gage-checking as a requisite of precise measurement. J. Lannen. Soc Auto Eng J 14:407-8 Ap '24; Abstract. Automotive Ind 50:244 Ja 31 '24

Manufacture

Les calibres-étalons parallélépipédiques; fabrication et contrôle des étalons Hoke, aux Etats-Unis. R. Perrin. il diags Génie Civil 86:29-33 Ja 10 '25
Generating precision tools. W: E. Hoke. il diags Mach 31:421-5 F '25
Heat-treatment of gauge steel. F. A. Livermore. diags Automobile Eng 15:142-3 My '25
Making thread gages. C. D. Edgar. diag Mach 30:959 Ag '24
Precise cylindrical lapping. P. M. Mueller. il diags Mech Eng 47:701-4 S '25; Same cond. Mach 32:60-2 S '25; Same cond. Am Mach 63:439-40 S 10 '25
Precision lapping. W: E. Hoke. diag Mach 31: 593-6 Ap '25
Stellite as a material for gages. il Mach 31: 633-4 Ap '25
Threading tool and gage forms for the new screw thread standard. R. E. Flanders. il diags Am Mach 61:481-6 S 25 '24

Testing

Ruling line standards; a method of producing line standards free from measurable error by the application of light interference. H. P. Lewis and C. G. Peters. il plan Am Mach 61:925-8 D 11 '24

GAGING
Ammonia liquid gage. M. C. Cockshott. diag Power 61:839 My 26 '25
Chart for showing the amount of liquid in a horizontal tank. J. P. Doolan. Am Mach 59:778 N 22 '23
Distance reading tank gauge. il diags Chem Age (Lond) 12:396-7 Ap 25 '25
How to compensate for temperature effects on hydrostatic gages. J. P. Nikonow. diags Automotive Ind 50:964-6 My 1 '24
McNeill liquid level gage. il diag Power 62: 263 Ag 18 '25; Power Pl Eng 29:823-4 Ag 1 '25
Measuring liquid level. diag Chem & Met Eng 31:235 Ag 11 '24

See also Oil measurement

GAITERS
Manufacture of four-buckle gaiters. il India Rubber W 69:223-4 Ja '24

GALACTOSE
Acetone sugars; experiments with galactose and mannose. K: Freudenberg and R. M. Hixon. Chem Soc J 124 pt 1:1179-80 D '23
Amylene- and butylene-oxidic forms of tetramethyl galactose. W. N. Haworth, D: A. Ruell and G: C. Westgarth. Chem Soc J 125:2468-74 D '24
Catalyzed oxidation of galactose. E. O. Whittier. Ind & Eng Chem 16:744-5 Jl '24
Constitutional studies in the monocarboxylic acids derived from sugars; the isomeric tetramethyl galactonolactones and trimethyl arabonolactones. J: Pryde, E. L. Hirst and R. W: Humphreys. Chem Soc J 127:348-57 F '25

GALANGIN monomethyl ether
Synthesis of myricetin and of a galangin monomethyl ether occurring in galanga root. J. Kalff and R. Robinson. Chem Soc J 127:181-4 Ja '25

GALANGINIDIN chloride
Synthesis of pyrylium salts of anthocyanidin type; a new synthesis of pelargonidin chloride and of galanginidin chloride. T: Malkin and R. Robinson. Chem Soc J 127: 1190-5 My '25

GALE, Hoyt Stoddard
Geologists of note. por Eng & Min J 118:604 O 18 '24

GALENA
Deformation in ores, Coeur D'Alene district, Idaho. W. A. Waldschmidt. il Econ Geol 20:573-86 S '25

GALENA dolomite
Upper Mississippi lead and zinc ores. J. E. Spurr. map Eng & Min J 117:246-50, 287-92 F 9-16 '24

GALLIUM
Germanium; the mineral germanite and the extraction of germanium and gallium therefrom. J: S. Thomas and W: Pugh. il Chem Soc J 125:816-26 Ap '24
New method for the separation of gallium from other elements. E. H. Swift. Am Chem Soc J 46:2375-81 N '24

GALLOTANNIN. See Tannins

GALVANIZED iron. See Iron, Galvanized

GALVANIZING
Anglo process of galvanizing; abstract. Mech Eng 46:49 Ja '24
Economy in galvanizing. M. Epstein. il Gas Age 54:97-8 Jl 19 '24
Electro-galvanising industry; its conception and development. S. Cowper-Coles. il diags Electrician 93:611-13+ N 28 '24
Galvanizing and its tests. C. S. Trewin. il diags Brass W 21:295-9 S '25; Same cond. Iron Tr R 77:370-3 Ag 13 '25
Galvanizing bath; manufacture of steel and wrought iron pipe. il diags Dom Eng 108: 28 S 13 '24
Heat treating malleable castings prior to galvanizing. M. Epstein. il diag Foundry 53:741-2 S 15 '25
Die höhe der zinkaufnahme beim feuerverzinken. H. Bablik. Stahl & Eisen 44:1370-1 O 30 '24
Improved sherardizing process; patent. Chem Age 32:471-2 N '24
New Crapo process for galvanizing. il Pub Serv Management 38:62-3 F '25; Excerpts. Elec W 86:121-2 Jl 18 '25; Brass W 21:350 O '25
New method for zinc coating wire. J. L. Schueler. Am Electrochem Soc Trans v 47: preprint 2):19-30 Ap '25; Same. Brass W 21:210-13 Je '25; Same abr. Metal Ind 23: 364-6 S '25; Excerpts. Iron Age 116:96 Jl 9 '25
Preece test for zinc coated materials. W. M. Peirce. il Iron Age 114:199-201 Jl 24 '24
Sherardising; its inception and development. S. Cowper-Coles. il Engineering 118:277-8 Ag 29 '24
Story of galvanizing products. F. R. Otte. il Sheet Metal Worker 15:109-13 Mr 14 '24
Tests on galvanised steel. Engineer 140:sup 101 Jl 31 '25
What is good galvanizing? S. Rosenberg. Chem & Met Eng 31:228 Ag 11 '24; Discussion. 31:592 O 13 '24

GALVANOMETERS
Anomalous behaviour of a vibration galvanometer. E. V. Appleton. Philos Mag 6th ser 47:609-19 Mr '24
Methods of varying the sensitiveness of ballistic galvanometers. M. Masius. Phys R 23:649-54; 25:211-17 My '24, F '25
Oscillographic study of current and voltage in a permeameter circuit. S. L. Gokhale. diags Am Inst E E J 43:1168-70 D '24
Das schleifengalvanometer. W. O. Schumann. il diag Elektrotech Zeit 45:499-500 My 15 '24
Sensitivity of a galvanometer and its amplification. W. J. H. Moll and H. C. Burger. Philos Mag 6th ser 50:626-31 S '25
Der stromleiter im Zeissschen schleifengalvanometer. A. Sonnefeld. il Elektrotech Zeit 46:623-4 Ap 23 '25
Temperature measurement with the Einthoven galvanometer. F. Adcock and E. H. Wells. Inst E E J 61:1115-20 O '23
Universal calibration curve for ballistic galvanometers. D. P. Randall. Phys R 25:85-9 Ja '25
See also Electric measurement

GALVESTON, Texas
Southwest's gate to the sea. R: Spillane. il Comm & Fin 13:1903+ O 1 '24

GAMBLE, William
Editor of Penrose's annual retires from active business. por Inland Ptr 74:376a, 384 D '24

GAME protection
Land drainage and game preservation. E. R. Jones. Eng N 92:765 My 1 '24
Policy for the conservation of our wild game. il Sci Am 132:310-11 My '25

GAMMA rays
Heating effect of the γ-rays of radium B and radium C. C. D. Ellis, W. A. Wooster and J. M. Dodds. diags Philos Mag 6th ser 50:521-36 S '25
Nature of gamma-rays. A. F. Kovarik and L. W. McKeehan. Nat Research Council Bul v 10, pt 1:101-23 Mr '25
Number of γ-rays emitted per second from radium B and C in equilibrium with a gram of radium and the number emitted per atom disintegrating. A. F. Kovarik. Phys R 23:559-74 My '24

GANDY bridge. See Tampa, Florida—Bridges

GANTT charts
Application of charts in industry. D: B. Porter. Management & Adm 7:329-36 Mr '24
Applying the Gantt chart in France. S. Héranger. charts Management & Adm 8:305-9 S '24
Control chart for the chief executive. W. Clark. Iron Age 115:829-31 Mr 19 '25; Same. Taylor Soc Bul 10:105-10 Ap '25
Recording road maintenance costs by Gantt charts. H. J. Friedman. Eng N 91:878-80 N 29 '23

GARAGES
Add story to ramp garage in 4½ days. Concrete 27:31-2 S '25; Same cond. Eng & Contr (Bldgs) 64:1173-4 N 25 '25
Attached garage. il Bldg Age 46:80-1 Je '24
Boiler house and garage for Thomas Harris Powers, Colorado Springs, Col. Am Arch 125:486g-i My 21 '24
Bracing plays a big part in the construction of large garages with trussed roofs. R. M. Singer. il Bldg Age 47:116-17 O '25
Garage with warped floor areas connecting ramps. il diags Eng N 95:230-1 Ag 6 '25
Garages for home and business. Bldg Age 46. 87 Mr '24
Mechanical transport of goods; some factors in the economical operation of road vehicles, with special reference to garages. R: Twelvetrees. il plan Electrician 91:718-20 D 28 '23
Million dollar garage. J: A. Ford. il Bldg Age 47:104-5 Mr '25
Revolving garage to be built in London. Eng & Contr (Bldgs) 64:216 Jl 22 '25
Suiting the garage to the factory's needs. C. E. Pask. il Factory 32:410+ Mr '24
See also Automobile service stations: Bungalow-garage; Gasoline handling; Motor bus lines—Garages

Designs and plans
Concourse garage, St Louis, Mo. il plans Am Arch 127:339-42 Ap 8 '25
Eliminating fire risks in the attached garage. Bldg Age 46:126-7 N '24
Fundamentals of economical garage design. H. F. Blanchard. diags plans Concrete 23: 182-6 N '23
Garage and chicken house at Hartsdale, N.Y.; view and plans. Am Arch 124:570d D 19 '23
Garage for George Schweizer, Bridgeport, Conn. il plans Am Arch 126:506-8 N 19 '24
Parking cars in cities; staggered floor garages with short ramps offer a solution to a big problem. il diag plan Bldg Age 47:120-1 S '25

Drainage
Garage drainage. R. M. Starbuck, jr. diags Dom Eng 112:33+ Jl 11 '25

Electric equipment
Power company has model electrical garage. J Elec 54:7-10 Ja 1 '25

Employees
Carbon monoxide hazard in public garages. E. Ciampolini. bibliog J Ind Hygiene 6:102-9 Jl '24
Recommendations for controlling health hazards in garages and automobile repair shops. G. M. Burnham. J Ind Hygiene 7: 254-60 Je '25
Tetraethyl lead a menace to garage workers. C. M. Salls. Nation's Health 7:169-71 Mr '25; Abstract. Monthly Labor R 20:1130-1 My '25

Equipment
See Service equipment associates

Heating and ventilation
Gas heating for garages. il Gas J (Lond) sup 3:193 O 22 '24
Heating garages. A. G. King. il diags plans Dom Eng 106:29-30+ Mr 29; 107: 29-30+ Ap 26; 26+ My 10; 20-1 Je 14 '24

GARAGES—Heating and ventilation—*Cont.*
How to heat radiators in garage from house hot water system. diag Sanitary & Heat Eng 104:288 O 30 '25
Oil used to heat 9-story garage. C. W. Geiger. il Power Pl Eng 27:1148 N 15 '23
Ventilation of garages in building basements. N. S. Thompson. Heat & Ven 21:58-9 Ja '24

Safety devices and measures

Carbon monoxide poisoning in private garages. W. P. Yant, W. A. Jacobs and L. B. Berger. Ind & Eng Chem 16:1047-9 O '24

GARAGES, Electric
Electric garage facilities. C. A. Street. map Elec W 85:376 F 14 '25

GARAGES, Sheet metal
Sell more metal garages. il Sheet Metal Worker 15:235-6 Ap 25 '24

GARAGES, State
State highway department garages. B. H. Piepmeier. Eng & Contr (R & S) 63:1237-8 Je 3 '25

GARAMOND, Claude
Popular types—their origin and use. J. L. Frazier. Inland Ptr 73:241-4 My '24

GARBAGE. See Refuse disposal

GARDEN cities
L'aménagement de grands espaces libres par le Département de la Seine. A. Bidault des Chaumes. maps Génie Civil 85:205-9 S 6 '24
Les cités-jardins de la Compagnie du chemin de fer du nord. P. Calfas. il plans Génie Civil 84:197-203 Mr 1 '24
Les cités-jardins de Letchworth et de Welwyn près de Londres. G. Benoit-Lévy. il map Génie Civil 83:449-53 N 10 '23
Influence of housing conditions on the use of leisure. R. Unwin. Int Labour R 9:815-28 Je '24
New garden cities of France. H. M. Wright. il Bldg Age 47:106-7 Je '25

See also City planning

GARDEN fences. See Fences

GARDEN ornaments and furniture
Garden sculpture of John Gregory. L. V. Solon. il Arch Rec 55:401-4 Ap '24
Sculptured groups from exhibitions of the Architectural league of New York and the International exposition of architecture and allied arts. Am Arch 127:506-7 Je 3 '25

Advertising

Successful advertising methods with ornamental concrete. W. H. Parker. il Concrete 27:14-15 Jl '25

GARDEN walls. See Walls, Garden

GARDENING

See Electrohorticulture; Landscape gardening

GARDENS
Andalusian gardens and patios. M. Stapley and A. Byne. il Arch Rec 54:488-506; 55:65-80, 177-93, 277-92, 373-87, 478-92, 569-85; 56:75-88, 161-77, 257-75 D '23-S '24
Beautiful gardens in America. L. Shelton. Rev. ed. 561p Scribner '24
Boxwood gardens, old and new. A. A. Lewis. 191p [bibliog. p. 191] William Byrd press, inc., Richmond, Va. '24
El Descansadero; a garden under lath. L. H. Donaldson. il Arch Rec 57:370-9 Ap '25
An English house and garden. T: H. Mawson. il Arch Rec 57:359-67 Ap '25
Exhibition of New York chapter of the American society of landscape architects. C. Fowler. il Am Arch 127:285-8, pl 77-80 Mr 25 '25
Gardens; a note-book of plans and sketches. J. C. N. Forestier. 237p Scribner '24
Gardens at Duffryn near Cardiff, South Wales. T: H. Mawson. il plan Arch Rec 56:16-27 Jl '24
Italian garden. L. Dami. 59p, 351 pl [bibliog. p. 49-59] Brentano's '25
Little tour in Spain; the gardens of Granada. L: La Beaume. il Am Inst Arch J 13: 357-67 O '25
Renaissance garden at San Domenico, Florence. R. W. Ramsdell and H. D. Eberlein. il diags plan Arch Forum 41:293-300 D '24
Spanish and Portuguese gardens. R. S. Nichols. 304p Houghton '24

See also Gates; Landscape gardening; Worker's gardens; *also* Vaux-le-Vicomte, France

GARDNER, James H.
Portrait. Nat Pet N 16:39 Ap 2 '24

GARMENT factories
Management in the clothing industry. S. E. Thompson and W. E. Freeland. Management & Adm 8:289-94 S '24

See also Clothing trade; Garment workers

Accounting

Cost finding system for garments. C. G. Daughters. Management & Adm 9:443-6 My '25

GARMENT workers
Ladies' garment workers, New York city, agreement. Monthly Labor R 19:1295-7 D '24
Ladies garment workers, New York city; agreement with Association of dress manufacturers. Monthly Labor R 20:1272-3 Je '25
Ladies' garment workers, Philadelphia; labor agreement. Monthly Labor R 20:841-2 Ap '25
New wage schedule went into effect in the women's garment industry of New York. Textile World 67:1498 F 28 '25
Physical examination of fifty thousand garment workers. G: M. Price. J Ind Hygiene 5:335-40 Ja '24; Abstract. Monthly Labor R 18:621-2 Mr '24
Pleaters and stitchers, New York city; labor agreement. Monthly Labor R 19:409-12 Ag '24
Report of Governor Smith's advisory commission on garment industry—77 members of union expelled on ground of communistic activities. Comm & Fin Chr 121:265-8 Jl 18 '25

See also Clothing trade—Labor problems; *also* International ladies' garment workers' union

GARNET
Garnet. Chemicals 24:6-7 Ag 17 '25
Mining, concentrating, and marketing garnet. F. E. Wormser. flow sheet il diags Eng & Min J 118:525-31 O 4 '24
Preparing garnet abrasives. H: R. Power. il Eng & Min J 118:532 O 4 '24
Recent developments in the production and consumption of abrasive garnet. W. M. Myers and C. O. Anderson. U S Bur Mines Rep of Invest 2691:1-11 Je '25 (typew.)

GARSTIN, William Edmund, 1849-1925
Sketch. por Engineer 139:82 Ja 16 '25; Engineering 119:82 Ja 16 '25

GARVAN, Francis P.
Garvan dinner, New York city, April 25. Am Dyestuff Rep 13:304-7 My 5 '24

GARY, Elbert Henry
Life of Elbert H. Gary; the story of steel. I. M. Tarbell. 361p Appleton '25

GARY, Indiana

Rapid transit

What pep, public understanding and employe cooperation will do. M. K. Hanlan. il Aera 14:342-7 O '25

Sanitary affairs

Sanitation program followed at Gary, Ind. W. P. Cottingham. Eng N 94:610 Ap 9 '25

Water supply

Operating features of the Gary, Indiana water works. W: Luscombe. Munic & Co Eng 66:155-9 Ap '24

GARY tube company
First units of Gary tube company. G: F. Tegan. il diag Iron Age 115:39-41 Ja 1 '25

GAS

Catechism of central station gas engineering in the United States. Am Gas J 122:57-8, 79-80, 101-2, 147-8, 167-8, 255-6, 275-6, 295-6, 317-18, 339-40, 359-60, 379-80, 401-2, 425-6 Ja 17-31, F 14-21, Mr 21-My 16 '25

Electrical competition. A. J. Garward. Gas J (Lond) sup 4:50-1 F 25 '25

Electrical competition. R. J. Williams. Gas J (Lond) sup 3:89-91 Ap 30 '24

Gas and electricity. W. D. Wilcox. Gas Age 56:513-14+ O 10 '25

Gas and electricity in relation to unemployment and industrial depression. M. Watson. Gas J (Lond) 170:595-7 My 27 '25

Gas as a public service. F. H. Robinson. il Gas J (Lond) 170:672-5 Je 3 '25

Gas for power purposes. R. G. Marsh. Gas J (Lond) sup 4:156; Discussion. 156-7 Jl 29 '25

Gas from the consumer's point of view. A. F. Timms. Gas J (Lond) sup 3:19-20 Ja 30 '24

Gas supply to the British Empire exhibition. G. L. Jennings. il Gas J (Lond) 170:453-4 My 13 '25

Gas v. electricity. Gas J (Lond) 171:31-2 Jl 1 '25

Gas v. electricity. H. Davis. Gas J (Lond) sup 4:93 Ap 29 '25

Gas v. electricity. T. J. Laycock. Gas J (Lond) sup 4:157-8; Discussion. 158 Jl 29 '25

Gases in industry and home. Sci Am 131:330 N '24

Hot water supply from sludge. A. J. Martin. Can Eng 45:532-3 N 27 '23

It is a winter morning; how gas serves man. il Am Gas J 122:184+ F 28 '25

Luminosity of flames. H. W. Webb. Gas J (Lond) 165:87 Ja 9 '24

New automatic pressure and temperature corrector for gas volumes. C. H. Beasley. diags Soc Chem Ind J 42:457-9 N 30 '23

New use for gas; possibilities of its employment for vacuum cleaning. B. C. Joy. Gas J (Lond) 166:535-6 My 21 '24

Recent developments in the production of town gas. G: Evetts. Gas J (Lond) 164:775-7 D 19 '23

Transition from natural to manufactured gas. D. J. Demorest. il Gas Age 52:641-4 N 24 '23

Use of city gas for cutting steel. J. H. Gumz. il Am Gas J 119:525-7+ N 10 '23

Where is it profitable to use gas? A. G. A. convention. Chem & Met Eng 31:703-6 N 3 '24

See also Acetylene; Blast furnace gas; Coal distillation; Coke-oven gas; Flue gas; Gas, Natural; Gas, Water; Gas analysis; Gas and oil engines; Gas appliances; Gas as fuel; Gas industry; Gas lighting; Gas manufacture; Gas producers; Gases; Oxy-acetylene flame; Petroleum

Analysis

See Gas analysis

Cost

Comparative costs of operating a gas and an electric apartment. J Elec 54:247 Ap 1 '25

History

History of gas in oils; eight photographs of paintings by Fred. L. Stoddard. Gas J (Lond) 171:438-41 Ag 19 '25

Story of gas. I. Ginsberg. il Am Gas J 121: 921-45 O 11 '24

Story of gas; four episodes in tableau form given by empoyees of Providence gas company. Gas Age 55:339-40+ Mr 7 '25

Ignition

Distance control. A. C. Prankard. Gas J (Lond) 166:116-18 Ap 9 '24

Laws and regulations

Baltimore to regulate sale of cheap gas appliances. J. R. Jennings. Gas Age 53:75-8 Ja 19 '24

Is a new gas regulation act necessary? G: Evetts. Gas J (Lond) 166:306-8 Ap 30 '24

Some recent legal decisions of importance. J: Simpson. Gas Age 55:575-6, 907-8 Ap 18, Je 27 '25

See also Gas—Standards; Gas, Natural—Laws and regulations; Gas companies—Law; Gas companies—Regulation

Proportional mixing

Mixing device for gas and air. il Chem & Met Eng 30:718 My 5 '24

Rates

See Gas rates

Standards

Calorific values of flow calorimeters. G: W. Burke. Gas Age 55:801-2 Je 6 '25

Le contrôle de la teneur du gaz de ville en oxyde de carbone. A. Grebel. diag Chimie & Ind 11:256-9 F '24; Excerpt. Am Gas J 120: 384-6+ Ap 26 '24

Dollar gas law and 650 b.t.u. standard condemned. Gas Age 54:897-8+ D 27 '24

Economics of gas production on the thermal basis. C: Evetts. Gas J (Lond) 170:943-52 Je 17 '25; Same cond. Engineering 119:815-18 Je 26 '25; Discussion. Gas J (Lond) 170: 952-5 Je 17 '25

Effect of variation in quality on use of gas. L. W. Ready. Gas Age 53:419-21 Ap 5 '24

Experience of the British gas industry under the therm regulations. E. W. Smith. Am Gas Assn General Sessions sec v 5:274-84 '23; Same. Gas J (Lond) 164:252-5 O 24 '23

Gas plants and gas quality. J. A. Perry. Gas Age 56:509-11 O 10 '25

Heating value of gas. E. R. Weaver. Gas Age 55:833-4+ Je 13 '25

Low vs. high B.T.U. gas. W. D. Wilcox. Gas Age 53:562+ Ap 26 '24

Lower gas standards as related to utility and price. C: R. Bellamy. Gas Age 54:48-50 Jl 12 '24

Observations on calorific value and gas testing. Gas J (Lond) 170:528-9 My 20 '25; Discussion. 170:735; 171:166-7 Je 10, Jl 15 '25

Public interest in heating value standards for gas. S. A. Covell; C. R. Vanneman. U S Bur Stand misc pub 58:55-64; Discussion. 64-8 '24

Quality and composition of town gas. H. E. Bloor. Gas J (Lond) 164:645-51 D 5 '23

Question of B.t.u. content. F. W. Parsons. Gas Age 53:523-4+ Ap 19 '24

Relation between heating value of gas and its usefulness to the consumer. E. R. Weaver. U S Bur Stand Tech Pa 290:347-463 '25; Excerpt (Detroit testing laboratory tests upon relative efficiencies in use of 530 and 600 B.t.u. gases). Chem & Met Eng 32:504 My '25; Same. Gas Age 55:731-2 My 23 '25; Abstract. Gas J (Lond) 172:782 D 23 '25; Discussion. Chem & Met Eng 32:642-3 Jl '25

Report of the Detroit testing laboratory to the Common council of the City of Detroit. 77p Detroit testing laboratory, 554 Bagley av., Detroit '24

Report on thermal value of gas. Am Gas J 121:1180+ N 15 '24

Thermal efficiencies of gas manufacture. Gas Age 56:143-4 Ag 1 '25

Volume, weight, and other properties of the therm. N. H. Humphrys. Gas J (Lond) 171:675-6, 798-800; 172:95-6, 219-20 S 16, 30, O 14, 28 '25

Sulfur content

Corrosion caused by products of combustion of coal gas. U. R. Evans. Soc Chem Ind J (Chem & Ind) 43:506-7 My 16 '24

Organic sulphur in gas from typical plants. J. B. Craven. Am Gas Assn Technical sec v 5:1191-3 '23

GAS—Sulfur content—*Continued*
Quelques précisions sur la teneur en soufre du gaz de ville. A. Grebel. diags Chimie & Ind 13:911-12 Je '25; Same (Sulphur content of coal gas). Am Gas J 123:174+ Ag 29 '25
Removal of organic sulphur from gas. A. R. Powell. Am Gas Assn Technical sec v 5: 1194-9 '23
Removal of combined organic sulphur from gas. G. Offe. Am Gas J 123:251-3 S 19 '25; Abstract. Gas J (Lond) 171:544-5 S 2 '25

Testing

See Gas testing

Theft

Catching the thief. J. M. Knowles. Gas Age 52:775-7 D 22 '23

GAS, Accidents from
Accidental deaths by poisoning from public gas supplies. N. H. Humphrys. Gas J (Lond) 168:295-6 O 29 '24
Accidents with gas. Am Gas J 122:418 My 16 '25
Carbon monoxide in public gas supplies. W. J. A. Butterfield. Gas J (Lond) 167:587-9, 637-8 Ag 13-20 '24
Duties of company and landlord as to inspection of pipes. J: Simpson. Gas Age 55: 613-14 Ap 25 '25
Gas accident changes color when it is studied. Gas Age 56:180 Ag 8 '25
Gas accidents and the company's liability. J: Simpson. Gas Age 52:629-31 N 17 '23
Gassing of employee came under compensation law. Gas Age 53:15-16 Ja 5 '24
Interesting case of carbon monoxide poisoning. F: W. Fabian. Heat & Ven 21:57 My '24
Is the company to blame for occupational disease and injury? J: Simpson. Gas Age 54: 799-800 D 6 '24
Report of accident prevention committee. il charts Am Gas Assn General Sessions sec v 6:111-28 '24
Statistics in regard to deaths from manufactured gas poisoning. Am Gas Assn General Sessions sec v 5:104-5 '23
Warns of gas burnt in unventilated rooms. Gas Age 53:425 Ap 5 '24

See also Carbon monoxide

GAS, Natural
Boiler firing with natural gas. R. Tullis. diags Power 61:494-5 Mr 31 '25
Burning natural gas and oil. diags Power Pl Eng 29:989-90 O 1 '25
Carbon monoxide hazards from house heaters burning natural gas. G. W. Jones, L. B. Berger and W. F. Holbrook. il diags U S Bur Mines Tech Pa 337:1-31 '23
Careful study of all factors required in taking care of old wells. J. S. Cornell. Nat Pet N 16:63+ O 1 '24
Correction to Boyle's law for high-pressure gas. D. E. Silcox. il Mech Eng 47:897-900 N '25
Dangers from carbon monoxide given off by heaters burning natural gas. G. W. Jones and W. P. Yant. diags Am Soc Heat & V E J 29:669-81 D '23
Effects of extraneous gas on the production of oil wells in the Lyons-Quinn field of Oklahoma. M. J. Kirwan. diags map U S Bur Mines Rep of Invest 2612:1-21 '24 (typew)
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 121:789-90, 803-6 Ag 30 '24
Gas engines in municipal light plant. il Power 60:647 O 21 '24
Handbook of petroleum, asphalt and natural gas. R. Cross. Rev. ed. 739p Kansas City testing laboratory, Kansas City, Mo. '24
Measurement, compression and transmission of natural gas. L. C. Lichty. 523p Wiley '24
Modern natural-gas engineering. E. J. Stephany. Eng Soc W Pa 39:267-75; Discussion. 276-307 N '23
Natural gas as industrial fuel. D. J. Demorest. Chem & Met Eng 32:422 Ap '25
Natural gas figures for 1922. Gas Age 53:188 F 16 '24
Natural gas in 1923. S. J. M. Auld. Inst Pet Tech J 10:803-10 N '24
Natural gas output for 1923 breaks all records. Oil Paint & Drug Rep 106:71 D 29 '24
Natural gas to mixed or manufactured gas? F. L. Pringle. Gas Age 53:753-6 My 31 '24
Recovery of gasoline from natural gas. G: A. Burrell. 600p Chemical catalog co. '25
Reformed gas in southern California plants. H. L. Masser. Gas Age 54:143-6 Ag 2 '24; Same. Am Gas J 122:413-14+ My 16 '25
Reports on the progress of naphthology during 1924; natural gas. S. J. M. Auld. bibliog Inst Pet Tech J 11:348-50 Ag '25
Transition from natural to manufactured gas. D. J. Demorest. il Gas Age 52:641-4 N 24 '23

See also Carbon black; Gas mixing; Gasoline, Natural gas

Auxiliary plants

Best type of manufactured gas plant for natural gas companies that are required to augment the failing supply of natural gas. A. Hurlburt. Am Gas Assn Technical sec v 6:734-41 '24; Same. Gas Age 54:501-4+ O 11 '24; Discussion. Am Gas Assn Technical sec v 6:741-9 '24

Conservation

Conservation of natural gas. J. Imboden; W. H. Snook. U S Bur Stand mis pub 58:69-80 '24
Conservation of natural gas in drilling operations. W. D. Stoughton, R. A. Frevert and C. D. Warthen. Nat Pet N 17:83+ Ja 21 '25
Production experts devise methods for subduing wild gasser. A. F. Hinton. Nat Pet N 16:45-6 F 13 '24
West Virginian oil and gas men discuss conservation of resources. L. E. Smith. Nat Pet N 16:42+ S 24 '24

Estimates

Early predictions on gas production proven out on meter readings. J. C. Chatfield. Nat Pet N 17:29-30 Je 17 '25

Fires and fire protection

Burning gas well is novelty to all but those working on it. il Nat Pet N 16:22 Ag 6 '24
Cromwell's first gas well fire resists fighters 12½ days. A. F. Hinton. il Nat Pet N 16: 27-8 My 21 '24
Rig used to extinguish burning gas well. M. R. Lamb. diag Eng & Min J 118:939 D 13 '24
Utah gas fire on the Cisco fold. Nat Pet N 16:52 O 29 '24

Laws and regulations

Natural gas company entitled to diminish service. J: Simpson. Gas Age 55:451-2 Mr 28 '25
Natural gas company's right to shut down wells. J: Simpson. Gas Age 55:411 Mr 21 '25
Natural gas in interstate commerce. J: Simpson. Gas Age 53:867-70+ Je 21 '24

Measurement

Chart for calculating daily production when given the volume of the hole and the first minute pressure above line or atmospheric pressure. R. E. Davis. Nat Pet N 16:66 Ag 27 '24

Rates

Appraisal of oil and gas properties. R. H. Johnson and P. Ruedemann. Nat Pet N 16: 67+ O 29; 81-2 N 5 '24

Taxation

Validity of occupation tax on natural gas company. J: Simpson. Gas Age 55:157 Ja 31 '25

Testing

Car for testing gasoline content of casing-head gas in the field. J. C. Chatfield. il Nat Pet N 17:68 N 4 '25
For uniform natural gasoline. R. Chew. Pet Age 13:72-3 Je 15 '24

GAS, Natural—Testing—*Continued*
Short cuts in testing natural gas by the charcoal method. R: C. Alden. Nat Pet N 15:89+ N 28 '23
Simple apparatus and method of testing gas for air content. H. W. Young and W. S. Hanna. diags Nat Pet N 17:98-9+ S 16 '25

Transportation
Natural gas distribution systems for the distribution of artificial gas in situations where the supply of natural gas has been exhausted. J. E. Burke. Am Gas Assn Technical sec v 6:1277-80 '24
New natural gas compressing station at Cambridge. il map Gas Age 54:251-3 Ag 23 '24

Valuation
Appraisal of oil and gas properties. R. H. Johnson and P. Ruedemann. Nat Pet N 16:55-7+ Ag 6; 68+ Ag 13; 69+ Ag 20; 63+ Ag 27; 67+ O 29; 81-2 N 5; 113+ N 12; 91-2 N 19; 68+ D 10; 89-90+ D 17 '24; 17:85-6+ Ja 28; 75-6 F 18; 101+ Ap 15 '25
Natural gas property valuation for rate making. J: Simpson. Gas Age 53:643-4+ My 10 '24
Some recent rules for the fixing of valuation. J: Simpson. Gas Age 55:43 Ja 10 '25
Valuation of natural gas property. Gas Age 54:86 Jl 19 '24

Well control
Monroe gasser is controlled by novel combination of principles. H. W. Bell. diag Nat Pet N 16:63-4 Mr 12 '24
Production experts devise methods for subduing wild gasser. A. F. Hinton. Nat Pet N 16:45-6 F 13 '24
Wild gas well in Depew district conquered after long fight. A. F. Hinton. il Nat Pet N 16:55+ Je 4 '24

Alberta
Report on natural gas in Alberta. Can Chem & Met 8:222-3 S '24

Canada
Natural gas resources of Canada. R. T. Elworthy. Can Chem & Met 9:87 Ap '25

Colorado
Geology and oil and gas prospects of part of Moffat county, Colorado, and Southern Sweetwater county, Wyoming. J. D. Sears. diags U S Geol S Bul 751—G:269-319, pl 35-7 '24
Sun oil co. finds 15 million feet gas in western Colorado test. Nat Pet N 16:43 D 3 '24

France
Natural gas in France. Gas J (Lond) 171: 546 S 2 '25

Louisiana
Louisiana's famous Monroe gas fields. H. A. Wheeler. Eng & Min J 117:52-4 Ja 12 '24

New Mexico
Ute dome next big field? Pet Age 15:33+ Ja 15 '25

Oklahoma
Geology of the Bristow quadrangle, Creek county, Oklahoma, with reference to petroleum and natural gas. A. E. Fath. maps U S Geol S Bul 759:1-63, pl 1-13 '25
Progress report on a subsurface study of the Pershing oil and gas field, Osage county, Oklahoma. W. W. Rubey. diags maps U S Geol S Bul 751—B:23-70, pl 7-9 '23
Sears hooks up big natural gas supply with Kansas industrial users. Nat Pet N 17: 29-30 Mr 25 '25

Thessaly, Greece
Natural gas in Thessaly. G. C. Georgalas. Econ Geol 19:92-5 Ja '24

United States
Natural gas developments during 1923. E. G. Sievers. il Gas Age 53:635-8 My 10 '24
Natural gas in 1923. G. B. Richardson. U S Geol S Min Res of U S 1923, pt 2:351-8 '25
Year of success that was based on good service. map Gas Age 55:225 F 14 '25

Utah
Huge gasser in Grand county, Utah. Nat Pet N 16:47-9 O 22 '24

West Virginia
Drilling race for the deepest well in the world. il Sci Am 132:258 Ap '25

Wyoming
Oil and gas fields of the Lost Soldier-Ferris district, Wyoming. A. E. Fath and G. F. Moulton. maps U S Geol S Bul 756:1-57, pl 1-8 '24

GAS, Oil
Fuel gas producing apparatus for isolated plants. il Textile World 65:4229 Je 28 '24
Gas from fuel oil; how it is manufactured. J. A. Harritt. il Am Gas J 123:193-4+ S 5 '25
Gas production from heavy fuel oils by partial combustion. J. E. Hackford. diags Soc Chem Ind J 44:299-303 Je 19 '25; Abstract. Chem Age (Lond) 12:455 My 9 '25; Same. Am Gas J 122:531 Je 20 '25; Discussion. Soc Chem Ind J 44:303-5 Je 19 '25
Improved methods and research work; oil cracking. P. G. G. Moon. Gas J (Lond) 170:42-3 Ap 1 '25
Liquid hydrocarbons obtained in the compression of oil gas. P. Lewis-Dale. Soc Chem Ind J 44:189-94 Ap 24 '25; Abstract. Chem Age (Lond) 11:600 D 13 '24
Manufacture of oil gas. D. J. Demorest. Chem & Met Eng 32:329 F 23 '25
Oil gas plant at New Bedford. R. Lindsay and L. M. Pease. il Gas Age 55:297-300+ F 28 '25; Excerpts. Am Gas J 122:178-80+ F 28 '25
Production of gas for municipal use from fuel oil. C. W. Arlitt. Munic & Co Eng 66:198-9 Ap '24
Refractories for oil gas generators. J. T. Creighton and M. J. Cereghino. il Gas Age 54:826-8, 860-2, 894-6+ D 13-27 '24
Testing of petroleum oils for gasification. A: Holmes. Ind & Eng Chem 16:258-61 Mr '24

GAS, Producer
Les camions à gazogène. G. Koenigs. Génie Civil 86:95-6 Ja 24 '25
Carbonizing coal by the sensible heat of producer gas. C. H. S. Tupholme. il diag plans Chem & Met Eng 29:1008-12 D 3 '23
Firing with producer gas. C. F. Smith. diags Brick & Clay Rec 63:770-1 N 27 '23
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 121:803-6 Ag 30 '24
Gas producer practice. W. Dyrssen. Blast F & Steel Pl 12:117-21, 161-5, 271-3 F-Mr, Je '24
Graphical chart for determining excess air in the combustion of producer gas. G. M Peltz. Am Cer Soc J 7:437-41; Discussion 441-3 Je '24
Power and process steam from byproduct producer gas. C. H. S. Tupholme. il diags plans Chem & Met Eng 31:300-3 Ag 25 '24
Producer gas; apparent equilibrium between constituents and influence of depth of fuel bed. R. T. Haslam. Ind & Eng Chem 16:782-4 Ag '24
Producer gas as an industrial fuel. D. J. Demorest. il Chem & Met Eng 31:578-81 O 13 '24
Producer gas as motor-truck fuel; abstract. E. Weiss. diag Mech Eng 46:902 D '24
Producer gas for burning refractories. W. D. Richardson. Am Cer Soc J 6:799-807 Jl '23; Discussion. (Bul) 6:374-6 D '23
Reactions in the fuel bed of a gas producer. R. T. Haslam, F. E. Entwistle and W. E. Gladding. Ind & Eng Chem 17:586-8 Je '25; Same. Gas Age 56:39-42 Jl 11 '25
Regeneration of combustion gases. Gas J (Lond) 170:255-6 Ap 22 '25

GAS, Producer—*Continued*
Some combustion problems in glass making. C. D. Smith. diags Am Cer Soc J 7:603-13 Ag '24
Versuche zur einregelung von gaserzeuger und Siemens-Martin-ofen. G. Bulle. diags Stahl & Eisen 44:397-403 Ap 10 '24

GAS, Straw
Experimental production of straw gas. H. E: Roethe. U S Agric Bul 1203:1-11 '23; Abstracts. Automotive Ind 49:1300 D 27 '23; Chem Age (Lond) 10:38 Ja 12 '24
Process developed by government bureau to manufacture straw gas. Gas Age 53:561 Ap 26 '24

GAS, Water
Application of oxygen in water gas machines. A. Frey. il diag Gas Age 56:613-16+ O 24 '25
Back run method of operation. O. H. Smith. Am Gas Assn Technical sec v 6:806-8 '24; Same. Am Gas J 121:976-7 O 14 '24; Discussion. Am Gas Assn Technical sec v 6: 899-902 '24
Backrun method of water gas set operation. F. W. Steere. il diag Gas Age 53:861-5 Je 21 '24
Backrun process tests and results at Moline, Ill. H. A. Kleinman. diag Gas Age 53:597-600+ My 3 '24
Bituminous coal as a generator fuel. H. S. Parker. Am Gas J 123:217-18 S 12 '25; Same. Gas Age 55:899-900 Je 27 '25
Bituminous coal as generator fuel for large water-gas sets with waste-heat boilers. W: A. Dunkley. il diags U S Bur Mines Tech Pa 335:1-43, pl 1-6 '25
Blue water gas offers industrial fuel economies. D. J. Demorest. il Chem & Met Eng 31:887-90 D 8 '24
Blue water gas; short historical account. F. D. Moses. diags Am Gas J 122:1-2+ Ja 3 '25
Carbureted water gas for domestic heating. S. O. Andros. Dom Eng 112:16-18 S 26 '25
Catechism of central station gas engineering in the United States. Am Gas J 120:394-6, 415-18, 439-42, 463-6, 485-8 Ap 26-My 24 '24
Central district bituminous coals as water-gas generator fuel. W. W. Odell and W. A. Dunkley. diags U S Bur Mines Bul 203:1-92 '24; Excerpts. Am Gas J 120:511+ My 31 '24
Cleaning of generator fires and progress toward clinker prevention. J. H. Warnick. Am Gas Assn Technical sec v 6: 816-19 '24
Coal-coke mixture for generator fuel. J. M. Williamson. Am Gas J 121:769-70+ Ag 23 '24
Coal may capture alcohol market from wood. Coal Age 28:219 Ag 13 '25
Critical study of the published results of tests of water gas plant. M. W. Travers. Gas J (Lond) 168:510-13, 580-1 N 19-26 '24; Same. Soc Chem Ind J 43:355-61 D 19 '24; Abstract. Chem Age (Lond) 11:467 N 8 '24; Discussion. Gas J (Lond) 168:581-2, 663, 731, 784 N 26-D 17 '24; Chem Age (Lond) 11:467-8, 550 N 8, 29 '24
Detarring gases by electrical precipitation. N. H. Gellert. Am Gas J 121:1129-30+ N 1 '24
Determining oil efficiencies in water gas manufacture. L. J. Willien. Gas Age 55: 603-6 Ap 25 '25; Discussion. 56:663-6+ N 7 '25
Eastern bituminous gas coal as water gas fuel. G: H. Smith. il Gas Age 54:3-6+ Jl 5 '24
Efficiencies in the use of bituminous coking coal as water-gas generator fuel. W. W. Odell. diags U S Bur Mines Tech Pa 274: 1-39 '23; Abstracts. Am Gas Assn Technical sec v 6:759-65 '24; Am Gas J 120:117-19+ F 9 '24
Erection of the new Oreland, Pa., gas plant. il plan Gas Age 55:3-5+ Ja 3 '25
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 121:851-2, 866-9 S 20 '24
Heat technology in byproduct coke and water-gas manufacture. diags Chem & Met Eng 30:558-9 Ap 7 '24
Hydrocarbons from water gas. Gas J (Lond) 164:773 D 19 '23
Influence of operating practice on composition of carbureted water-gas light oil. R. L. Brown and H. G. Berger. Ind & Eng Chem 17:168-74 F '25
Light oil composition and meter deposits. R. L. Brown, E. F. Pohlman and H. G. Berger. bibliog diag Gas Age 52:645-8 N 24 '23
Liquid fuels from water gas. F. Fischer. Ind & Eng Chem 17:574-6 Je '25
Looking to the future; the use of bituminous coal as a water generator fuel. W. D. Wilcox. plan Gas Age 56:141-2+ Ag 1 '25
Methane by catalysis from CO in blue water gas. R. T. Haslam and H. O. Forrest. bibliog Gas Age 52:615-18+ N 17 '23
Modification of water gas sets for use of heavy fuel oil. W. D. Stewart. diag Am Gas Assn Technical sec v 6:813-15 '24; Same. Gas Age 54:703-4 N 15 '24
Nouveau type de générateur de gaz à l'eau, à décrassage automatique. Réa. diags Génie Civil 85:93 Jl 26 '24; Abstract. Gas J (Lond) 167:938 S 24 '24
Operating experiences and results obtained with use of bituminous coal as generator fuel in eleven foot sets. W. J. Murdock. Am Gas J 120:338-40, 351-7 Ap 12 '24; Same, without tables. Gas Age 53:555-61 Ap 26 '24; Same abr. Am Gas Assn Technical sec v 6:766-76; Discussion. 891-9 '24
Polymerization and oxidation of indene in the vapor phase. R. L. Brown. diag Ind & Eng Chem 17:920-4 S '25
Production of different grades of gas. A. Parker. Gas J (Lond) 167:816-21 S 10 '24
Recent developments in gas works machinery. F. H. Beebe. Gas Age 53:791-3+ Je 7 '24
Recent manufacturing extensions at Montreal; new equipment in the Lasalle gas works. H. N. Osler. il Am Gas J 123:118, 121-3 Ag 8 '25
Report of sub-committee on refractories. Am Gas Assn Technical sec v 6:822-9; Discussion. 905-7 '24
Report of the Semet-Solvay co., Syracuse, N.Y. R. L. Brown. il diag Am Gas Assn Technical sec v 6:1165-9 '24
Report of uncarburetted water gas section. Am Gas Assn Technical sec v 6:837-47 '24
Report on the use of the checkerless carburetter system. Am Gas Assn Technical sec v 6: 809-12 '24; Same. Gas Age 54:797-8 D 6 '24; Discussion. Am Gas Assn Technical sec v 6:902-5 '24
Report on water gas apparatus. W. E. Steinwedell and others. il diags Am Gas Assn Technical sec v 6:851-90 '24
Reports of tests by different gas companies on use of bituminous coal. Am Gas Assn Technical sec v 6:785-805 [bibliog. p. 805] '24
Saving money in the form of calories; automatic charging of water-gas generators. il Chem & Met Eng 31:853 D 1 '24
Smoot control of volumes supplied to water gas sets. il Am Gas J 123:476-7 O 17 '25
Some notes on the dehydration of water gas tar emulsion. L. J. Willien. diags Gas Age 52:581-3 N 10 '23
Study of the water gas process. M. W. Travers. Chem Age (Lond) 11:467; Discussion. 467-8 N 8 '24
Superheated steam and air blast in water gas manufacture. W. H. Gartley. diag Am Gas J 121:736-8 Ag 9 '24; Same. Gas Age 53:521-2+ Ap 19 '24
Test on backrun device, station J, Detroit City gas company, July 12, 1923. Am Gas Assn Technical sec v 5:1026-38 '23
Use of bituminous coal as generator fuel in plants of the United gas improvement co. H. K. Seeley. Am Gas Assn Technical sec v 6:777-84 '24
Use of oxygen in the manufacture of water gas. F. E. Vandaveer and S. W. Parr. il diag Ind & Eng Chem 17:1123-7 N '25
Water-gas equilibrium. J. R. Partington and W. G. Shilling. Soc Chem Ind J 44:149-50 Ap 3 25; Discussion. (Chem & Ind) 44:405, 462, 534 Ap 17, My 1, 22 '25

GAS, Water—*Continued*
Water gas from soft coal. L. J. Willien. Am Gas J 123:505-6+ O 31 '25
Water-gas plant at Auckland, New Zealand. J. Lowe. Gas J (Lond) 166:228-9 Ap 23 '24
Water gas plant recently installed at Kokomo. A. E. Robertson. il Gas Age 53:827-9 Je 14 '24
Water gas tar filtration system at Malden, Mass. R. S. Carter. il Am Gas Assn Technical sec v 6:1427-31 '24; Same. Gas Age 54:731-2 N 22 '24; Discussion. Am Gas Assn Technical sec v 6:1433-8 '24
Widening utility of water-gas process. diags Chem & Met Eng 29:1064-6 D 10 '23
Wood alcohol from water gas. I. Ginsberg. diag Am Gas J 122:461-2 My 30 '25
See also Gas oil

Patents

Making water gas with superheated steam; patent. diag Am Gas J 122:491 Je 6 '25
Manufacture of combustible gas. H. O. Loebell. Gas J (Lond) 171:52 Jl 1 '25
Recent water-gas patent. diag Gas Age 53: 39-40 Ja 12 '24

GAS analysis
Absorption of oxygen and liberation of carbon monoxide by alkaline pyrogallol solutions. T: J. Drakeley and H. Nicol. Soc Chem Ind J 44:457-62 S 25 '25
Analysis of fuel gas. S. W. Parr and F. E. Vandaveer. il Ill U Eng Exp Sta Circ 12:1-41 '24; Excerpt (Illinois gas apparatus). Am Gas J 122:315-16 Ap 11 '25
Analysis of gas. E. Scherb. Am Gas J 121: 1154+ N 8 '24
Apparatus for accurate analysis of small quantities of gas. D. S. Chamberlin and D. M. Newitt. diags Ind & Eng Chem 17:621 Je '25
Benzol content of gas; its determination by means of activated charcoal. A. Schmolke. Am Gas J 121:843-5 S 13 '24
Buret for micro gas analysis. J. A. Christiansen. diag Am Chem Soc J 47:109-12 Ja '25
Catechism of central station gas engineering in the United States. diag Am Gas J 122: 101-2 Ja 31 '25
Combustion in the gasoline engine; evidence for the existence of the water-gas equilibrium. C. C. Minter. il diag Ind & Eng Chem 17:687-90 Jl '25
Critical study of the Burrell indicator for combustible gases in air. L. H. Milligan. il diags U S Bur Mines Tech Pa 357:1-40 '25
Detection of small quantities of petroleum vapor with the Burrell methane indicator. G. W. Jones and W. P. Yant. diags U S Bur Mines Tech Pa 352:1-19, pl 1 '24
Determination of gas distribution in internal-combustion engines by gas analysis. G. W. Jones, W. P. Yant and L. B. Berger. diags U S Bur Mines Rep of Invest 2631: 1-6 Ag '24 (typew); Same. Automotive Ind 51:682-4 O 16 '24
Determining the combustion power of coal. M. Nicloux. Am Gas J 120:137-9+ F 16 '24
Effects of indene on naphthalene determinations by picric acid. R. L. Brown and H. G. Berger. bibliog Ind & Eng Chem 16:917-21 S '24
Exhaust-gas analysis. G. G. Brown; C. C. Minter. diag Soc Auto Eng J 16:612-17 Je '25
Gases in metals. L: Jordan. Am Soc T M Pro 23 pt 2:7-20; Discussion. 21-6 '23
Graphical control; method for determining relation between gases formed in sulphur burning. R. Sieber. Paper 33:3-4+ N 22 '23
Macdonald portable gas analysis apparatus. C. M. Macdonald. diag Gas J (Lond) 164: 779-81 D 19 '23
Methods of gas analysis for gas engineers. N. H. Humphrys. Gas J (Lond) 171:387 Ag 12 '25
New absorbent for oxygen in gas analysis. L: F. Fieser. Am Chem Soc J 46:2639-47 D '24
New absorption pipette for gas analysis. S. W. Saunders. diag Chem Soc J 123:2826-8 N '23
New method of absorbing oxygen announced by Louis F. Fieser. Power 60:140 Jl 22 '24
New method of gas analysis; Ruben apparatus. R. Geberth. il Ind & Eng Chem 15:1277-8 D '23
New method of micro-gas analysis. L: Reeve. diags Chem Soc J 125:1946-54 S '24
Percentage of carbon monoxide in mixtures of coal gas and water gas. F. E. Mills. Gas J (Lond) 172:26 O 7 '25
Quantitative analysis of mists and fogs, especially acid mists. H. C. Weber. diags Ind & Eng Chem 16:1239-42 D '24
Rapid analysis of gases. il plan Chem Age 32: 34-5 Ja '24
Reactions in the fuel bed of a gas producer. R. T. Haslam, F. E. Entwistle and W. E. Gladding. Ind & Eng Chem 17:586-8 Je '25; Same. Gas Age 56:39-42 Jl 11 '25
Recording gas apparatus. diag Am Gas J 122: 51 Ja 17 '25
Refined method of gas sampling and analysis. H. Kreisinger and others. diags U S Bur Mines Bul 214:60-7 '24; Excerpt. Power 61:693 Je 16 '25
Die technische analyse von hochwertigen gasen mit dem Orsatapparat. W. Stöckmann. Stahl & Eisen 44:153-4 F 7 '24
Thermal-conductivity method for the analysis of gases. P. E. Palmer and E. R. Weaver. il charts diags U S Bur Stand Tech Pa 249: 35-100 '24
Thirteenth report of the research sub-committee of the gas investigation committee of the Institution of gas engineers. il diags Gas J (Lond) 170:891-7 Je 17 '25
See also Air—Analysis; Carbon monoxide—Analysis; Flue gas—Analysis; Gas sampling

GAS and oil engines
Ancient oil engine maintains high efficiency. J. H. Bender. il Power 59:171 Ja 29 '24
Andreau motor. E. H. Weiss. diag Mech Eng 47:292-3 Ap '25
Andreau variable-stroke engine. diags Sci Am 132:413 Je '25
Der Bagnulo-rohölmotor. L. Hausfelder. diags Zeit Ver Deutsch Ing 68:449-50 My 3 '24
Barnard and Fletcher oil engine designed to operate on progressive combustion principle. diags Marine Eng 29:598-600 O '24
Betriebsversuche an einer gasdynamomaschine mit abhitzeverwertung. M. Steffes. Stahl & Eisen 44:287-8 Mr 13 '24
Blackstone synchro-balance internal-combustion engine. il diags Engineering 118:593 O 24 '24
Bolnes 170-b.h.p. three-cylinder oil engine. il Engineering 120:271 Ag 28 '25
British industries fair, Birmingham, Feb. 13-27. Engineer 139:222-3 F 20 '25
Browett-Lindley 150-h.p. four-cylinder vertical gas engine. il diags Engineering 118: 847-8 D 19 '24
Buda model JV gasoline engine. il Eng & Contr (R & S) 63:720 Ap 1 '25
Catalysis and the internal combustion engine. E: Sokal. Soc Chem Ind J 43:283-4 Ag 29 '24
Catechism of central station gas engineering in the United States. Am Gas J 121:1315-16+; 122:11-12 D 27 '24-Ja 3 '25
Cockerill 7150 b.h.p. gas engine. il diag Engineer 139:166, 168-9 F 6 '25
Combined crankless gas engine and gas compressor. il diags Engineering 119:104, 105-6, 108 Ja 23 '25
Combined gas and electricity undertakings. J. G. Walthew. il Gas J (Lond) 169:340-2; Discussion. 342-3 F 11 '25
Combustion processes in the oil engine. H. F. Shepherd. Power 62:411-12 S 15 '25
Comparison of internal-combustion engine efficiencies. Engineering 117:467-8 Ap 11 '24; Discussion. R. W. Bailey. 117:585 My 2 '24
Compression in gas engines. A. Jadot. Mech Eng 47:126-7 F '25
Control of power production. C: L. Hubbard. il diags Factory 32:482-6, 655-7+ Ap-My '24

GAS and oil engines—*Continued*
Crossley gas engine; new model. il Gas J (Lond) 171:665-6 S 16 '25
Crossley gas engines. il Chem Age (Lond) 10:sup 10-11 F 16 '24
Cushman light-weight engine. il Automotive Ind 53:425 S 10 '25
Démonstration expérimentale et mesure précise des phénomènes de résonance propre des arbres-manivelles des moteurs à explosion. A. Blondel and H: Harlé. diag Génie Civil 84:502-3 My 24 '24
Determination of the thermal efficiency and performance of ideal internal combustion engines. R. W. Bailey. Engineering 120: 403-5 O 2 '25
Developments in the oil-engine industry. Power 59:19-20 Ja 1 '24
Diesel and oil engineering hand book. J. Rosbloom. 3d ed., enl. 792p Technical pub. co., Los Angeles, Calif. '25
Elements of internal-combustion engineering. P. T. Petrie. 236p Longmans '25
Elements of steam and gas power engineering. A. A. Potter and J. P. Calderwood. 2d ed. 336p McGraw-Hill '24
Entwicklungslinien der dampfkraftmaschinen und die aussichten des gasmaschinenbetriebes. H. Hoff. diags Stahl & Eisen 44:1482-8; Discussion. 1567-75 N 20, D 4 '24
L'établissement d'un prototype de moteur à essence à la Fabrique nationale d'armes de guerre à Herstal. A. Coppens. Soc Ing Civils Bul 76:1132-4 O '23
L'état actuel de la traction sur voies ferrées par moteurs à combustion interne. E. Brillié. il diags Soc Ing Civils Bul 78:199-260, pl 91-2 Mr '25
L'évolution des moteurs à huiles lourdes. R. E. Mathot. diags Soc Ing Civils Bul 77:143-81, pl 64 Ja '24
Figuring efficiency of oil and gas engines. diag Power 60:1033 D 23 '24
Finding the flywheel weight required by an internal-combustion engine. P. H. Schweitzer. chart Power 59:673 Ap 29 '24
Fraser and Chalmers heavy oil engine. il diag Engineering 117:731-4 Je 6 '24; Elec R (Lond) 95:676-7 O 31 '24
Gardner oil engines at the British Empire exhibition. il diags Engineering 118:595-8 O 24 '24
Gardner 65-b.h.p. cold-starting heavy oil engine. diags Engineering 119:180-1 F 6 '25
Gas engine. F. W. Burstall. Gas J (Lond) 167:518-20 Ag 6 '24
Gas engine in the steel industry. A. C. Danks. Mech Eng 46:450-60 Ag '24; Abstract. Power 59:946-8 Je 10 '24; Discussion. Mech Eng 46:460 Ag '24
Gas engine with maximum efficiency. H. W. Los. Power 62:49 Jl 14 '25
Gas engines as a source of power on the job. il Bldg Age 47:124 F '25
Gas power again to the front in England; the Premier double-acting vertical engine. C. H. S. Tupholme. diags Gas Age 53:65-8 Ja 19 '24
Gasoline engine that is different; Denison engine. il Sci Am 130:393 Je '24
Generating units of United States helium gas power plant. Z. W. Wicks. il diag Power 62:8-11 Jl 7 '25
Die grossgasmaschine in der deutschen kraftwirtschaft. P. R. Meyer. il diags Zeit Ver Deutsch Ing 68:1336-40 D 27 '24; Same abr. (Large gas engine in German power economy). Engineering 118:105-6 Jl 18 '24; Abstract. Génie Civil 85:456-7 N 15 '24
Heat flow in internal combustion engine pistons. G. A. Young and H. A. Huebotter. Automotive Ind 51:878 N 20 '24
High-speed internal-combustion engine. H. R. Ricardo. diags Automobile Eng 15:135-8, 166-8, 206-10 My-Jl '25; Abstract. Automotive Ind 53:288-90 Ag 20 '25
Hiring-out gas engines. Gas J (Lond) sup 3:234-5 D 31 '24
Hot-bulb and high compression engines in Sweden. G. Dellner. Engineering 118:105 Jl 18 '24
Ice plant changes to oil engine drive. il plan Power Pl Eng 28:910-12 S 1 '24
Internal combustion electric locomotives. H. Lemp. il diags Gen Elec R 27:673-81 O '24
Internal-combustion engine. C: E. Lucke. Power 60:268-9 Ag 12 '24; Discussion. A. E. Park. 60:621-2 O 14 '24
Internal combustion engine. H. R. Ricardo. 2v Van Nostrand '23
Internal combustion engines at the British Empire exhibition. il diags Engineering 117: 529-35 Ap 25 '24
Internal-combustion engines at the British Empire exposition. J: B. C. Kershaw. il diags Power 60:168-70 Jl 29 '24
Internal-combustion engines; their principles and application to automobile, aircraft, and marine purposes. W. L. Lind. 2d ed., rev. 266p U.S. naval institute, Annapolis, Md. '25
Internal combustion engines (thermal and power calculations); data sheet. J. B. Rathbun. Pet Age 13:75 Mr 1 '24
Kraftmaschinen im Rheinland. P. Langer. diags Zeit Ver Deutsch Ing 69:1023-8 Ag 1 '25
Many internal-combustion engines used at mines. J. H. Edwards. il Coal Age 27:747-52 My 21 '25
Maybe your engine would be improved by this test. W. F. Schaphorst. Power Pl Eng 29:337 Mr 15 '25
Mechanics of the gasoline engine. H. A. Huebotter. 313p McGraw-Hill '23
Missing pressure in gas engines. W. T. David. Engineering 118:623-4 O 31 '24; Abstracts. Engineer 138:491 O 31 '24; Gas J (Lond) 168:360 N 5 '24; Mech Eng 47:292 Ap '25; Discussion. Engineering 118:605-6, 641, 684-5 O 31-N 14 '24; Engineer 138:492, 551 O 31, N 14 '24
Misuse of the internal combustion engine, and suggestions for its more efficient application. L. Murphy. diags Automobile Eng 13:409-15 D '23; Abstract. Elec R (Lond) 93:754-5 N 16 '23
Moteurs à combustion interne. P. Dumanois. 517p J.-B. Baillière and son, Paris '24
New gas-engine plant of the Illinois steel company. il diags Power 59:552-7 Ap 8 '24
Nouveau moteur horizontal à huile lourde, système National. diags Génie Civil 84:309 Mr 29 '24
Novel method of driving a fan through gearing from a gas engine. F: G. Gorman. il diag Gas J (Lond) 171:104-7 Jl 8 '25
Oil and gas engine power. A. W. Daw and Z. W. Daw. 491p Van Nostrand '23
Oil and gas power week. Mech Eng 47:648-52, 743-5 Ag-S '25
Oil-driven pumping plant at Chipstead. Engineer 139:626, 632 Je 5 '25
Oil engine in a woollen mill. il Engineer 137: 264 Mr 7 '24
Oil engines. A. L. Bird. 281p Dutton '24
Oil engines. C: Day. Elec R (Lond) 94:514 Mr 28 '24
Oil engines as prime movers. il Concrete (cement mill sec) 26:80-1 Je '25
Oil engines discussed at A.S.M.E. annual meeting. Power Pl Eng 28:1276-7 D 15 '24
Oil engines for refrigerating plants. H. E. Chambers, jr. Power 61:62-4 Ja 13 '25
Oil engines in ice plants. C. T. Baker. Refrig W 59:13-15 My '24
Oil engines in small pumping plants. il Power 59:936 Je 10 '24
Parsons oil engine generator set. il diag Engineer 140:72 Jl 17 '25
Petrol engine for wireless telegraph equipment. il diags Engineering 117:76 Ja 18 '24
Petter two-stroke oil engines. il diags Engineering 118:720-2 N 21 '24
Physics of internal-combustion engines. Engineering 118:679-80; 119:70, 141 N 14 '24, Ja 16, 30 '25
Possibility of dynamic back-pressure reduction in reciprocating steam and gas engines. F. Loewenberg. Power 59:700 Ap 29 '24
Producer gas for desert regions. Power 61: 702; 62:376, 459 My 5, S 8, 22 '25

GAS and oil engines—*Continued*
Radiation characteristics of the internal-combustion engine. T. Midgley, jr. and H. H. McCarty. il diag Soc Auto Eng J 14:182-5 F '24; Abstract. Automotive Ind 50:282-3 Ja 31 '24; Discussion. Soc Auto Eng J 15:232-4 S '24
Recent oil engine developments. J. L. Chaloner. Engineer 139:456-7 Ap 24 '25; Abstract. Mech Eng 47:852-3 O '25
Relative economy of standby oil engines. W. S. Lea. Can Eng 46:297-b Mr 4 '24; Same cond. Am Water Works Assn J 12:191-5 O '24; Discussion. Can Eng 46:297b-d Mr 4 '24; Am Water Works Assn J 12:195-9 O '24
Roller bearing oil engine. il diag Engineer 137:92-4 Ja 25 '24
Some considerations affecting the choice of a heavy oil engine. G. Porter. Engineering 116:656-7 N 23 '23
Some points on buying internal combustion engines. il Am Exporter 95:101+ O '24
Standards of comparison in connection with the thermal efficiency of internal-combustion engines. G. J. Wells. Engineer 137:365 Ap 4 '24; Same. Elec R (Lond) 94:592-3 Ap 11 '24; Same. Engineering 117:429-30 Ap 4 '24; Discussion. Automotive Ind 50:1020-1 My 8 '24; Engineer 137:394 Ap 11 '24; Gas J (Lond) 166:172-5 Ap 16 '24
Town gas engines in competition with other forms of power; abstract and discussion. H. Clark. Gas J (Lond) 168:657-8 D 3 '24
Upflow valve scavenging of two-stroke-cycle engines. R. Matthews. il diags Power 59: 208-9 F 5 '24
Use of oil engines by Perry, Iowa, water works. J. B. Trenchard. Munic & Co Eng 67:265-6 N '24
Whaley constant-pressure oil engine. Am Mach 63:391 S 3 '25; Marine Eng 30:516 S '25; Marine R 55:343 S '25; Power 62:385 S 8 '25; Manuf Rec 88:104 S 3 '25; Pet Age 16:50-1 S 15 '25; Power Pl Eng 29:954-5 S 15 '25; Mech Eng 47:851 O '25
Will sulphuric acid hurt an oil engine? A. B. Newell. Power 61:454-5 Mr 24 '25
Will the substitution of the internal combustion engine for the usual non-condensing or bleeder type turbine for house generator service in central stations be practical and economical? Power Pl Eng 27:1242-3 D 15 '23
World power conference proceedings; internal-combustion engines. Engineering 118: 83-4 Jl 18 '24; Gas J (Lond) 167:581-2 Ag 13 '24

See also Air engines; Airplane engines; Airship engines; Automobile engines; Camellaird-Fullagar engine; Carbureters; Cylinders (engines); Diesel engines; Doxford engines; Gas turbines; Humphrey pumps; Hvid engines; Kerosene engines; Locomotives, Gas and oil; Motor boats; Motor cars (railroad); Motor ships; Motor truck engines; Niepce engines; Semi-Diesel engines; Silencers; Still engine; Tractors

Bearings

Oil-engine bearings. Power 62:15 Jl 7 '25

Bibliography

Internal combustion engines. Coventry Pub Lib Readers' Bul 2:72-5 My '24

Cooling

Future of the air-cooled car. V: W. Page. il Sci Am 130:22-3+ Ja '24

See also Automobile engines—Cooling; Diesel engines—Cooling

Cost of operation

Elektromotor, rohölmotor oder benzolmotor? W. Windel. Elektrotech Zeit 46:302-4 F 26 '25
Systematic methods for oil engine plants. il Power Pl Eng 28:893-4 S 1 '24

Design

Essentials of a successful constant-compression engine. C. E. Sargent. il diags Soc Auto Eng J 14:5-10 Ja '24
New design in oil engine embodies three new features. Nat Pet N 16:32f-g Mr 5 '24
Present gas-engine designs faulty. C: J. Toth. diags Power 62:735-6 N 10 '25
Trend of oil-engine design; abstract. F. E. Jones. Mech Eng 47:649-50 Ag '25

Exhaust

How much can be gained by exhaust turbines. P. H. Schweitzer. Mech Eng 47: 860-1 O '25
Ingenious device used to determine unburned fuel in exhaust gases. M. Moeller and M. U. Büchting. il diags Automotive Ind 51: 568-9 S 25 '24
Internal combustion engines exhausting into L.P. turbines. F. Modugno. Elec R (Lond) 93:875 D 7 '23
Pyrometry of exhaust temperatures of internal-combustion engines. C: E. Foster. Power 62:35 Jl 7 '25
Taking that bark out of the exhaust. H. P. Maxim. Power 61:375-6 Mr 10 '25

See also Automobile engines—Exhaust

Failures

Crankshaft failures on gas and oil engines. E: Ingham. Power 60:719-20 N 4 '24

Fuel

Burning heavy fuel in oil engines. A. B. Newell. Power 61:29-30 Ja 6 '25
La combustion vive, détonante et non détonante, des milieux gazeux. F. Schwers. Chimie & Ind 12:983-92 D '24
Control of detonation. G. A. Young and J. H. Holloway. Soc Auto Eng J 14:315-18 Mr '24
La crise des carburants et les remèdes proposés. A. Travers. diags Chimie & Ind 13: 373-82 Mr '25
Les enseignements du dernier congrès de motoculture et des carburants nationaux. A. Guiselin. diags Soc Ing Civils Bul 78:73-151, pl 88 Ja '25
How dirty fuel may damage oil-engine cylinders. A. B. Newell. Power 62:644-5 O 27 '25
Inert diluents; their effect on the working fluid of an internal combustion engine. J. F. Alcock. diags Automobile Eng 14:165-70 Je '24
Influence de la variation de volume due à la combustion sur le rendement des combustibles brûlés dans les moteurs. Génie Civil 85:157 Ag 16 '24
Lignite distillate. C: E. Kerchner. Mech Eng 46:516-18 S '24
Problem of detonation in motor fuels. H. Moore. Chem Age (Lond) 10:4-5 Ja 5 '24; Same. Soc Chem Ind J (Chem & Ind) 43: 59-61 Ja 18 '24
Procédés de production des huiles légères pour les moteurs à combustion interne. M. Brutzkus. diags Chimie & Ind 14:171-85, 358-62 Ag-S '25
Reports on the progress of naphthology during 1924; heavy distillates. H. Moore. bibliog Inst Pet Tech J 11:332-6 Ag '25
Some engine experiments with oxidized oils. J. H. James and F. C. Ziesenheim. Am Inst Chem Eng Trans v 14:201-10 '21-'22
Strength of mixture has marked effect on engine temperature. C. B. Dicksee. Automotive Ind 50:566-71 Mr 6 '24
L'utilisation des combustibles liquides dans les moteurs à combustion interne. S. Golczewski. diags Génie Civil 86:163-5 F 14 '25

See also Alcohol as fuel; Automobile engines—Fuel; Diesel engines—Fuel; Gasoline; Oil as fuel

Fuel feeding

Blackstone spring injection oil engine. il diag Elec R (Lond) 97:274 Ag 14 '25
Fuel-charge mixing and flame propagation. A. H. Denison. Soc Auto Eng J 17:273-7 S '25
Fuel pumps for solid injection engines. H. F. Birnie. diags Power Pl Eng 29:745-9 Jl 15 '25

GAS and oil engines—Fuel feeding—*Continued*
Nouveau procédé d'injection pour moteurs à huiles lourdes démarrant à froid. diag Génie Civil 86:614 Je 20 '25
Oil-engine spray nozzles. H. F. Shepherd. diags Power 58:854 N 27 '23
Spray penetration. H. F. Shepherd. diag Power 60:99-100 Jl 15 '24
300-b.h.p. cold-starting heavy oil engine constructed by Blackstone & co. il diags Engineering 118:638-40; 119:528 N 7 '24, Ap 24 '25

See also Carbureters; Gas and oil engines—Solid injection

Gearing

Synchro-balance driving gear. diag Mech Eng 47:47 Ja '25

Ignition

Avoiding preignition troubles in gas engines. H. W. Los. diags Power 62:370 S 8 '25; Same. Eng & Contr (W W) 65:6 Ja 13 '26
Characteristics of Hvid-engine fuel cup. A. J. Nicholas. diags Power 62:208-9 Ag 11 '25
Ignition equipment for a 7,500-h.p. gas engine. il diag Engineering 117:394-5 Mr 28 '24

See also Airplane engines—Ignition

Losses

Heat loss in gas engines. W. T. David. diags Engineering 118:629-30 O 31 '24; Abstract. Engineer 138:492 O 31 '24; Discussion. Engineering 118:605-6, 684-5 O 31, N 14 '24
How internal losses in power plants vary with speed. P. M. Heldt. Automotive Ind 50:556-8 Mr 6 '24

Lubrication

Better lubrication of an internal-combustion engine feeding oil under pressure to the cylinder-walls. H. L. Horning. Soc Auto Eng J 16:479-80 My '25
Friction of pistons and piston rings. T. E. Stanton. diag Engineer 139:70, 72 Ja 16 '25; Abstract. Automotive Ind 52:276-7 F 12 '25
Gas engine cylinder lubrication. Pet Age 14: 63 S 1 '24
Improved lubrication and cooling methods increase efficiency of marine motor. E. T. Keyser. Am Exporter 95:96-7 S '24
Lubricating oils for internal-combustion engines. R. J. Stewart. Power 58:959-60 D 11 '23
Measuring the percentage of crankcase-oil dilution. T. S. Sligh, jr. diags Soc Auto Eng J 16:355-60 Mr '25
Oil dilution and contamination. Soc Auto Eng J 16:498-500 My '25

See also Diesel engines—Lubrication

Manufacture

Production methods on large oil engines. L. S. Love. il Iron Age 113:1777-82 Je 19 '24
You couldn't tempt us to build two sizes or styles. W: H. Newbrough. il Factory 33:194-6+ Ag '24

Repair

Filling scores in cylinders. G: Wilson. diag Am Mach 60:223 F 7 '24

Safety devices and measures

Minimum of air contamination in industry. Nation's Health 6:410-11+ Je '24
Safeguarding of prime movers and transmission machinery. G. S. Taylor. Gas J (Lond) 170:241 Ap 22 '25

Solid injection

Atomization obtained in fuel nozzles of solid-injection oil engines. R. Matthews. il Power 62:567-8 O 13 '25
Features of airless injection engines. H. F. Birnie. il diags Power Pl Eng 29:642-4, 745-9, 846-8 Je 15, Jl 15, Ag 15 '25
Increasing the compression pressure in an engine by using a long intake pipe. R. Matthews and A. W. Gardiner. Power 59:492 Mr 25 '24
Observations on the solid-injection engine. P. H. Schweitzer. Power 59:90-1 Ja 15 '24
Ruston and Hornsby cold-starting oil engine; abstracts. il diags Engineer 137:180-1 F 15 '24; Mech Eng 46:283-4 My '24
Solid-injection oil engine. H. F. Shepherd. diags Mech Eng 46:251-7; Discussion. 257-8+ My '24; Abstract. Power 58:946-7 D 11 '23
Some notes on the working of the Ruston mechanical injection oil engine. C. O. Milton. Engineer 140:57 Jl 17 '25

Starting devices

Friction starting gear for National vertical gas engines. il diags Engineering 119:284, 285 Mr 6 '25

Temperature

Exhaust valve and cylinder-head temperatures in high-speed petrol engines. A. H. Gibson and H. W. Baker. diags Engineering 116:785-8, 816-19 D 21-28 '23; Same cond. Engineer 136:675-6, 700-2 D 21-28 '23; Discussion. Engineering 116:765-7 D 21 '23; Engineer 136:663-5 D 21 '23
Gas engine piston and exhaust valve temperatures. F. R. B. Watson. Engineering 119: 1-2 Ja 2 '25
Rate of heat transmission from the working fluid in an internal combustion engine. A. H. Gibson. Philos Mag 6th ser 47:883-95 My '24
Strength of mixture has marked effect on engine temperature. C. B. Dicksee. Automotive Ind 50:566-71 Mr 6 '24
Temperature measurement with the Einthoven galvanometer. F. Adcock and E. H. Wells. Inst E E J 61:1115-20 O '23

Terminology

Oil-engine nomenclature. H. A. Stuart. Mech Eng 46:428-9 Jl '24

Testing

L'augmentation de la compression dans les moteurs à combustion interne. G. Lumet. Soc Ing Civils Bul 77:365-80 Ap '24
Codes for recording heavy-oil engine trials. Engineering 119:611-12 My 15 '25; Engineer 139:520-1 My 8 '25; Mech Eng 47:590-1 Jl '25
Factors affecting the working costs of small electric generating sets. E. G. Kennard. Inst E E J 62:713-19 Ag '24
Fraser and Chalmers heavy oil engine. il diag Engineering 117:732-4 Je 6 '24
Fuel tests of rock crushing plants. il Ry R 74:805-7 My 3 '24
Inert diluents; their effect on the working fluid of an internal combustion engine. J. F. Alcock. diags Automobile Eng 14:165-70 Je '24
New rock crushing plants of Southern Pacific Ry.; tests of the oil engine prime movers. il Eng & Contr (Ry) 61:1113-15 My 21 '24
Some tests on a two-stroke cycle oil-engine. E. A. Allcut. il diags Engineering 119:681-2, 713-16 My 29-Je 5 '25; Abstract. Engineer 139:593 My 29 '25; Discussion. Engineering 119:675-7 My 29 '25; Engineer 139:593-4 My 29 '25
Testing of high speed internal combustion engines. A. W: Judge. 392p [bibliog. p. 357-8] Van Nostrand '24
Vibration in engine test gear. J. Morris. diag Engineer 139:484-5 My 1 '25

See also Airplane engines—Testing; Gas and oil engines, Marine—Testing

Valves

New type of fuel valve for oil engines. H: Pokorney. il diags Power Pl Eng 29:896-8 S 1 '25
Ochrome alloy valves. Automotive Ind 53:23 Jl 2 '25

Vibration

Effects produced by vibrations in internal-combustion engines. J. Geiger. Power 58:964-5 D 11 '23

GAS and oil engines, Marine
Details of 96-b. h. p. Gardner marine-type two-cycle oil engine; Empire exhibition. il diags Engineering 118:595-8 O 24 '24
Einschrauben-motorschiffe Sorrento und Amalfi. Hein, Wolfenstetter and Nüsslein. il diags plans Zeit Ver Deutsch Ing 69: 1101-8 Ag 22 '25
Engines for motorboats. G: F. Crouch. Soc Auto Eng J 14:117-19 F '24
Die entwicklung der Germania-grossölmaschine. W. Laudahn. diags Zeit Ver Deutsch Ing 68:1171-6, 1200-4 N 8-15 '24
Four-cycle Burmeister and Wain marine oil engine. H. H. Blache. il diags Engineer 139:246-8 F 27 '25
Large Nuremburg oil engine. diags Engineer 137:291 Mr 14 '24
Large Still type engine for twin-screw motorship Dolius. il diags Marine R 54:83-5+ Mr '24
Lost torque in marine engines. Engineer 138:643-4 D 5 '24
M.S. Dolius, first ship fitted with Still engines. il diags Marine Eng 29:338-40 Je '24
Marine hot bulb engines and crank case compression. Engineer 137:103, 128-9, 297 Ja 25-F 1, Mr 14 '24
Marine oil engine progress. W. Abel. Engineer 139:191-2 F 13 '25
Modern high-speed marine engines. L. M. Woolson. Soc Auto Eng J 16:274 Mr '25
Les moteurs Still, à combustion interne et à vapeur, du cargo-boat Dolius. il diags Génie Civil 84:101-5 F 2 '24
Motor lifeboat for the Cunard steamship company. il diags Engineering 119:542-3 My 1 '25
Motor liner Aorangi; Fairfield-Sulzer engines. il diags (supp) Engineer 139:71, 72-5 Ja 16 '25
Motor ship Margretian with Beardmore-Speedwell oil engines. il Engineering 116: 791-3, pl 46 D 28 '23
Motor ship Parkeston. il Engineer 140:194-5 Ag 21 '25
Motor-ship Raby Castle. il diags Engineering 119:507-9, pl 31-3 Ap 24 '25; Engineer 139:458-60 Ap 24 '25
Motor ships and marine oil engines in 1923. il (supp) Engineer 137:7-10 Ja 4 '24
Motor ships and marine oil engines in 1924. il (supp) Engineer 139:4-8 Ja 2 '25
New single-acting and double-acting Krupp engines. Mech Eng 47:750 S '25
Oil-engine driven ferryboat. W: H. Hoffman. il Power 59:53-4 Ja 8 '24
Oil-engined trawler Beardmore. il diags Engineer 137:591-4 My 30 '24
Oil-engined versus steam-driven tugs. il diags Engineering 118:517-18, 520 O 10 '24
Die ölmaschinenanlage der 20 600 t-motorschiffe Svealand und Americaland. H. Thorwarth. il diags plans Zeit Ver Deutsch Ing 69:305-10 Mr 7 '25
Packard develops two new marine engines. il Automotive Ind 53:287 Ag 20 '25
Scott-Still engines for M. S. Dolius prove economical. il diags plan Marine Eng 29:35-8 Ja '24
Scott-Still marine oil engine. il diags Engineer 136:556-8, 592-4 N 23-30 '23; Engineering 116:639-40, pl 37-9 N 23 '23
72 b.h.p. marine-type heavy oil engine; Norris, Henty and Gardners. il diags Engineer 138:152-3 Ag 8 '24
Small commercial marine motor design. A. F. Evans. diags Automobile Eng 13:347-51 N '23
10-h.p. four-cylinder marine petrol motor. il diags Engineering 118:815 D 12 '24
Three-cylinder 2,100 horsepower Doxford engine. il Marine Eng 29:343-4 Je '24
22/26-hp. four-cylinder paraffin engine with reverse gear. il diags Engineering 119: 304-5 Mr 6 '25
Vickers-Petters four-cylinder marine type oil engine. il diags Engineer 138:457-8 O 24 '24
What the internal combustion motor has done for sailing craft. E. T. Keyser. il Am Exporter 94:101+ Je '24
Worthington double-acting marine oil engine. il diag Engineer 138:389-90 O 3 '24

See also Camellaird-Fullagar engine; Diesel engines, Marine; Diesel engines, Submarine; Motor ships

Design
Clyde marine oil engines. A. L. Mellanby. diags Engineering 116:95-8, 128-30 Jl 20-27 '23; Abstract. Engineer 136:120-1, 620 Ag 3, D 7 '23; Discussion. Engineering 116:719-20 D 7 '23; Engineer 136:620-2 D 7 '23
Small marine engine design from the user's point of view. B. H. Joy. diags Automobile Eng 13:343-7 N '23

Gearing
Hydraulic mechanical transmission gearing for motor ships. G. Bauer. diag Engineer 138:646 D 5 '24

Testing
Second report of the Marine oil engine trials committee. Engineering 119:397-402, 434-6 Mr 27-Ap 3 '25; Engineer 139:346-9 Mr 27 '25; Mech Eng 47:504 Je '25; Discussion. Engineering 119:391-2, 445-6, 485-7 Mr 27, Ap 10-17 '25; Engineer 139:403 Ap 10 '25
Trials of the motor ship Sycamore; report of Marine oil engine trials committee. Engineer 138:618-20 N 28 '24; Engineering 118: 750-3, 784-6 N 28-D 5 '24; Discussion. Engineer 138:677 D 12 '24; Engineering 118:730-2, 798-9; 119:70 N 28, D 12 '24, Ja 16 '25

GAS appliance industry
Are you neglecting sixty-five per cent of your market? W. S. Vivian. Ptr Ink 125:97-100 N 29 '23
Exact business knowledge means more appliance business. F. H. Williams. Am Gas J 120:525-6 Je 7 '24
Gas company and the appliance maker. H. Schall. Am Gas J 122:162+ F 21 '25

GAS appliances
Gas for laundries. Gas J (Lond) sup 3:193 O 22 '24
Progress in industrial appliances. Am Gas Assn Industrial Gas sec v 5:774-84 '23
Selling at cost. M. Sunshine. Gas Age 52: 745-6 D 15 '23

See also Gas burners; Gas cooking; Gas industry; Gas ovens; Gas stoves; Gas water heaters

Maintenance and repair
Maintenance. G. Hiley. Gas J (Lond) sup 3: 85-6 Ap 30 '24
Maintenance. J. W. M'Lusky. Gas J (Lond) 170:177-8 Ap 15 '25; Discussion. 170:253-4 Ap 22 '25
Maintenance. R. W. Malone. Gas J (Lond) sup 3:35-7 F 27 '24
Maintenance. S. T. S. Musgrove. Gas J (Lond) 164:581-2; Discussion. 582-3 N 28 '23
Maintenance and maintenance systems. F. Caudwell. Gas J (Lond) sup 3:117-20 Je 25 '24
Maintenance of apparatus on the district. W. R. Moger. Gas J (Lond) 168:902; Discussion. 902-3 D 31 '24
Maintenance of consumers' appliances. J. Davis. Gas J (Lond) sup 4:104-5; Discussion. 105-6 My 27 '25
Maintenance of consumers' appliances. G: Keillor. Gas J (Lond) 170:115-16 Ap 8 '25
Maintenance of domestic consumers' appliances and fittings—administrative policy of gas undertakings. J. W. Napier. Gas J (Lond) 170:114-15 Ap 8 '25
Maintenance of gas appliances. W. S. Anderson. Gas J (Lond) sup 4:89-90 Ap 29 '25
Maintenance of gas appliances. C. H. S. Tupholme. Am Gas J 121:1086+ O 18 '24

Testing
Method of testing gas appliances to determine their safety from producing carbon monoxide. E. R. Weaver, J. H. Eiseman and G. B. Shawn. Gas Age 56:241-2+, 281-2+, 319-22 Ag 22-S 5 '25

GAS appliances—Testing—*Continued*
Safeguarding the public; the New York consolidated gas company's testing laboratory. H. O. Andrew. il Gas Age 56:503-5 O 10 '25

Ventilation

Flues in relation to gas appliances. J. W. Carlton. Gas J (Lond) sup 3:245-6 D 31 '24
Flues to gas-appliances. A. Forshaw. diags Gas J (Lond) sup 4:42-7 F 25 '25
Flues to gas appliances. T: Newton. Gas J (Lond) sup 4:56-7 Mr 25 '25
Ventilating of gas apparatus. S. Adams. Gas J (Lond) sup 3:83-4; Discussion. 84-5 Ap 30 '24

GAS appliances, Domestic
Design of gas appliances. K. Bunte. Am Gas J 121:1221-2+ N 29 '24
Few remarks on gas appliances. G. Linley. Gas J (Lond) sup 4:157; Discussion. 157 Jl 29 '25
Gas and gas apparatus for domestic use. Gas J (Lond) sup 4:139-42; Discussion. 142-3 Je 24 '25
How to advise consumers on the maintenance of apparatus in the home. W: Jobling. Gas J (Lond) sup 3:61-2 Mr 26 '24
Ideal home exhibition. Gas J (Lond) 165:546-7, 634-5 Mr 5-12 '24
Keeping the appliance story before the prospect. J. R. Jennings. diag Gas Age 56:407-8+ S 19 '25
Present position of the gas industry. Gas J (Lond) 166:231-2 Ap 23 '24
Selling more gas for home laundry consumption. H. M. Bennett. Gas Age 55:169-70+ Ja 31 '25; Same cond. Am Gas J 122:225-6+ Mr 14 '25

See also Gas cooking

Safety devices and measures

Baltimore to regulate sale of cheap gas appliances. J. R. Jennings. Gas Age 53:75-8 Ja 19 '24

GAS as fuel
A.B.C.'s of industrial gas utilization. F. R. Hutchinson. il Gas Age 56:45-6, 71-2+ Jl 11-18 '25
Aiding the finisher in the textile industry. J: T. Travis. il Gas Age 54:271-2 Ag 23 '24
Air required for combustion of gas. P. Hetzler. diag Am Gas J 123:46+ Jl 18 '25
American heating machines. il Am Mach 63: 173-4 Jl 23 '25
Application of gas to ship repairing. J. M. Loughland. Gas J (Lond) sup 4:136-8 Je 24 '25
Baking of cores. C. C. Hermann. plan Gas Age 53:706+ My 17 '24; Same. Brass W 21:87-8 Mr '25
Blue water gas offers industrial fuel economies. D. J. Demorest. il Chem & Met Eng 31:887-90 D 8 '24
Burning brick with city gas. il Brick & Clay Rec 65:167-8 Ag 5 '24
Case hardening. E. A. Leask. Gas J (Lond) sup 4:62-3 Mr 25 '25
Combustion; a reference book. 74p Industrial gas section of the American gas assn., New York '24
Conditioning textiles with gas. J. F. Springer. il Am Gas J 120:543-4+ Je 14 '24
Conservation of natural gas in drilling operations. W. D. Stoughton, R. A. Frevert and C. D. Warthen. Nat Pet N 17:83+ Ja 21 '25
Cutting mould drying costs in half. A. Zander. il Gas Age 53:301-2+ Mr 8 '24
Cutting production costs in manufacture of telephone and radio parts. il Gas Age 54: 375-6 S 13 '24
Die casting with gas. H. Behrman. il Gas Age 55:75-6 Ja 17 '25
Dry sterilization of mattresses. T: Telfer. il Am Gas J 122:444+ My 23 '25
Drying and smoking of fish for our tables. J. W. Piatt. il Gas Age 55:721-3+ My 16 '25
Economy in galvanizing. M. Epstein. il Gas Age 54:97-8 Jl 19 '24
Étude théorique comparée des principaux combustibles gazeux aux points de vue de l'éclairage et de la force motrice. H. Pariselle. Chimie & Ind 11:651-6 Ap '24
European producer practice; gas operated furnaces reward engineers in search. C. H. S. Tupholme. diags Blast F & Steel Pl 12: 401-6 S '24
From the ore fields to the finished product gas does the most important work. C. H. Martin. il Am Gas J 121:1290+ D 20 '24
Fuel in industry. D. Chandler. il diags Gas J (Lond) 170:243-7 Ap 22 '25
Fuel of the future. F. W. Goodenough. Gas J (Lond) 165:84-5; 168:431-2 Ja 9, N 12 '24
Fuel of the future; the advantages of the universal burning of gas. I. Ginsberg. il Sci Am 129:384-5 D '23
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 119:193-6, 204-5, 253-7+, 457-61, 609-11+; 121:677-8+, 789-90, 803-6, 1081-2+, 1173-4+, 1261-2+; 122:45-6+, 135-6+, 265-6+, 349-50+, 389-91+, 481-2+; 123: 1-2+, 89-91+, 215-16+, 483-4+, 651-2 S 8, 29, O 20, D 8 '23, Jl 26, Ag 30, O 18, N 15, D 13 '24, Ja 17, F 14, Mr 28, Ap 25, My 9, Je 6, Jl 4, Ag 1, S 12, O 24, D 19 '25
Fuel situation from an engineer's standpoint. W. V. Turner. il Gas Age 54:791-3 D 6 '24
Furnace design and performance. T. R. Speck. Gas J (Lond) 170:182-4 Ap 15 '25
Furnace industry. A. J. Smith. il Gas Age 53: 537-9 Ap 19 '24
Future of gas in industry. H. E. Broughton and H. C. Haroldson. il Gas Age 56:457-8+ O 3 '25
Gas—an efficient fuel and a remedy for smoke. Gas J (Lond) sup 3:79 Ap 30 '24
Gas and brass. L. B. Crossman. il Gas Age 54:237 Ag 16 '24; Same. Brass W 20:338 O '24
Gas as a factor in improving quality standards. H: O. Loebell. Gas Age 54:509-12 O 11 '24
Gas as fuel for vitreous enameling. H. H. Clark. Am Cer Soc J 7:643-4 Ag '24
Gas at every stage of automobile radiator production. F. I. Newton. il Gas Age 55: 47-8+ Ja 10 '25
Gas-fired enameling furnaces without muffles. H. H. Clark. Am Cer Soc J 8:623-5 O '25
Gas firing. A. C. Ionides. diags Gas J (Lond) 166:176-8; Discussion. 178-9 Ap 16 '24
Gas for general heat treatment work. H. R. Hems. Gas J (Lond) sup 4:63-4 Mr 25 '25
Gas for glass. R. A. Hastings. il Gas Age 56: 225+ Ag 15 '25
Gas for industry. C. B. Donkin. il diags Gas J (Lond) 170:312-14 Ap 29 '25; Discussion. 170:378 My 6 '25
Gas for use in foundry ovens. Foundry 52:116 F 1 '24
Gas for varnish and gum making. A. Morgan. Gas J (Lond) sup 4:61-2 Mr 25 '25
Gas-furnace installations. H. R. Hems. il Gas J (Lond) 166:400-3; Discussion. 403 My 7 '24
Gas furnaces applied to the steel industry; abstracts. S. A. Sears. Engineering 119: 275-6 F 27 '25; Gas J (Lond) 169:524 Mr 4 '25; Engineer 139:352 Mr 27 '25
Gas in a textile mill; using three million cubic feet of gas a month in a finishing plant. G. E. DeLoid. il Am Gas J 123:191-2 S 5 '25
Gas in industry; heat treating with manufactured gas in England's midland industries. C. M. Walter. il Gas Age 54:718+ N 15 '24
Gas in the automatic age. J. E. Bullard. Am Gas J 122:287+ Ap 4 '25
Gas in the chemical industries. J. Jares. Am Gas J 122:521-2 Je 20 '25
Gas in the newspaper plant. H. S. Christman. il Am Gas J 121:682+; 123:171-2+ Jl 26 '24, Ag 29 '25
Gas in the poultry business. L. J. Peterson. il Gas Age 55:396+ Mr 14 '25
Gas is cheaper. J. H. Gumz. Am Gas Assn Industrial Gas sec v 6:645-50 '24; Same. Am Gas J 121:1153+ N 8 '24; Same. Gas Age 54:571-2+ O 18 '24

GAS as fuel—*Continued*
Gas man analyzes some recent electrical propaganda; compare time cost of heat treating with gas and electricity. R. J. Phelon. il Gas Age 54:729-30+ N 22 '24
Gas plays a big part in the automobile repair business and in service stations. W: H. Matlack. diags Am Gas J 121:816+ S 6 '24
Gas takes charge of heating in the railroad shop. J. H. Gumz. il Gas Age 55:571-4 Ap 18 '25
Gas the ultimate fuel for industry. H: O. Loebell. Am Gas J 119:673-5+ D 29 '23
Gas used in the manufacture of sweets. S. B. Watling. Gas J (Lond) sup 4:60-1 Mr 25 '25
Heat balance of a gas fired enameling furnace. L. E. Biemiller. il Gas Age 53:621-2+ My 3 '24
Heat treating at the Bosch magneto plant. H. O. Andrew. il Gas Age 53:391-2 Mr 29 '24
Heating vertical retorts with coal gas. F. Elcock. Am Gas J 123:68-9 Jl 25 '25; Same. Gas Age 56:69-70 Jl 18 '25; Same. Gas J (Lond) 171:331-2 Ag 5 '25
Hotel and restaurant business. H. D. Schall. Am Gas J 123:153-4+ Ag 22 '25
Hotels and restaurants offer industrial gas business. W. R. Adams. Gas Age 56:299-300+ Ag 29 '25
How gas serves in manufacture of metallic packing. H. S. Christman. il Am Gas J 120:181-2 F 23 '24
How to select and use gaseous fuels. C. J. Wright. Chem & Met Eng 29:888-90 N 12 '23
Increasing output of coffee roasters. J. E. Bullard. il Gas Age 53:666+ My 10 '24
Industrial gas; abstract. C. B. Phillips. Mech Eng 47:650-1 Ag '25
Industrial gas in Baltimore industries. C: C. Krausse. Am Gas J 123:279-80+ O 3 '25
Industrial gas laboratory in San Francisco. C: W. Geiger. il Management & Adm 7:177-8 F '24
Industrial gas utilization. Gas Age 54:447-8 S 27 '24
Industrial load. Rennison. Gas J (Lond) sup 3:65-7 Mr 26 '24
Industrial problems. J. Brown. Gas J (Lond) 169:146-8 Ja 21 '25
Labour party and better times for the housewife. Gas J (Lond) 165:150-1 Ja 16 '24
Let's get down to business; an industrial gas research foundation is advocated. C. H. Light. charts Am Gas J 122:157-8+ F 21 '25
Making an industrial survey and an analysis of other fuels. C. H. Light. Gas Age 56: 201-2, 243-6+ Ag 15-22 '25
Making Beechnut fruit tablets. R. G. Van Gundy. il Gas Age 54:831-2 D 13 '24
Making prepared roofing. W: Reach, jr. il Am Gas J 120:270+ Mr 22 '24
Making progress in hardening taps and dies. il Gas Age 52:601-2 N 10 '23
Manufacturing glass bottles. il diags Gas Age 54:133-4 Jl 26 '24
Maywood plant of the American can company. il Blast F & Steel Pl 13:252-3 Je '25
Melting by natural-draught gas and other fuels. A. J. Smith. Brass W 20:93-4 Mr '24
More British ideas concerning gas usage. Gas Age 52:621-2+ N 17 '23
New uses for gas in industry bring tenfold gain. B. J. Mullaney. il Forbes 17:20-2+ O 15 '25
Nouveau four à ciment vertical, chauffé au gaz. il diags Génie Civil 85:14-16 Jl 5 '24
Part played by gas in bright annealing of steel. R. J. Phelon. il Gas Age 53:372+ Mr 22 '24
Prepared roofing manufacture demands exact temperature. W: Riach, jr. il diag Gas Age 53:165-6 F 9 '24
Printers' exhibition; use of gas in the trade. il Gas J (Lond) 170:736-7 Je 10 '25
Producer gas as an industrial fuel. D. J. Demorest. il Chem & Met Eng 31:578-81 O 13 '24
Producing the permanent wave; a new and novel use for gas. J. Jares. Am Gas J 121: 633-4 Jl 12 '24
Quality of your eye glasses assured by gas fuel. il Gas Age 55:689-90 My 9 '25
Recuperation for oil and gas heated furnaces. A. E. Walden. diags Gas Age 53:97-8+ Ja 26 '24
Relation between gas and the farmer's crops. T. V. Baldwin. Gas Age 55:789-90+ My 30 '25
Relations of thermal quality to value of fuel gases. C. F. Carrier. Chem & Met Eng 31: 656-7 O 27 '24
Relative value of fuels. R. O. Wynne-Roberts. Am Gas J 121:791-2+ Ag 30 '24; Same. Gas Age 54:319-20 S 6 '24; Same. Can Eng 47:643-4 D 30 '24
Sale of town gas as an industrial fuel. H. R. Hems. Gas J (Lond) sup 4:88-9 Ap 29 '25
600 per cent increase in production of cork floor tiling after fuel change. il Gas Age 52: 771-2 D 22 '23
Small industrial user of gas is profitable. J. R. Jennings. il Gas Age 56:490 O 3 '25
Some factors influencing the development of industrial gas. W. M. Hepburn. Am Gas Assn Industrial Gas sec v 6:627-36 '24; Same abr. Am Gas J 121:1006-11 O 15 '24; Discussion. Am Gas Assn Industrial Gas sec v 6:636-45 '24
Some uses for gas in printing works. J. Ennals. Gas J (Lond) sup 4:135-6 Je 24 '25
Speeding up production by the aid of gas boiler. J. E. Bullard. il Gas Age 53:87-8 Ja 19 '24
Town gas for motive power. D. Clerk. Gas J (Lond) 170:939-40; Discussion. 940-2 Je 17 '25
Use of town gas in industry. A. Duckham. Gas J (Lond) 167:319-20; Discussion. 320-1 Jl 16 '24; Abstract. Gas Age 54:276 Ag 23 '24
Use of town gas in the printing trade. E. W. Smith. Gas J (Lond) 165:559-60 Mr 5 '24
Useful facts and figures from the B.C.G.A. conference. Gas J (Lond) sup 2:224 D 26 '23
Uses of gas in the automobile industry. A. B. Greenleaf. Automotive Ind 51:476 S 11 '24
Using gas for drying pickled sheets. W. A. Darrah. Iron Tr R 74:1115-16 Ap 24 '24
Varnish cooking using surface combustion equipment. A. M. Apmann. il diag Gas Age 53:19-21 Ja 5 '24
Versuche zur einregelung von gaserzeuger und Siemens-Martin-ofen. G. Bulle. diags Stahl & Eisen 44:397-403 Ap 10 '24
What coal equipment can be converted to gas? Gas Age 53:340+ Mr 15 '24
What gas does in baking japan on ranges. J. E. Bullard. il Gas Age 55:883-4 Je 20 '25
When can city gas be used for domestic and industrial heating? D. J. Demorest. il diag Chem & Met Eng 32:233-6 F 9 '25
When can industry afford to use gas as a fuel? Chem & Met Eng 31:417-18 S 15 '24
Wire mill uses city gas for fuel. J. M. Layng. il Iron Age 116:275-8 Jl 30 '25; Same. Gas Age 56:409-10+ S 19 '25

See also Blast furnace gas; Boilers—Gas firing; Coke-oven gas; Gas, Producer; Gas and oil engines; Gas burners; Gas cooking; Gas heating; Gas ovens; Gas producers; Gas stoves

Tables, calculations, etc.

Chart for determining gas used per unit. J. H. Phillips. Elec W 83:832-3 Ap 26 '24

GAS associations
Possibilities of co-operation in gas industry. M. F. Wales. Am Gas J 123:492+ O 24 '25

GAS bags. See Oil tanks—Gas bag attachment

GAS black. See Carbon black

GAS boilers. See Boilers—Gas firing

GAS boosters
Michell crankless gas engine and compressor. il diag Gas J (Lond) 170:47-8 Ap 1 '25
Novel method of driving a fan through gearing from a gas engine. F: G. Gorman. il diag Gas J (Lond) 171:104-7 Jl 8 '25

GAS burners
Atmospheric gas burners; patent. diags Gas J (Lond) 171:619 S 9 '25
Becs à Bunsen unique non chauffé, muni d'une tête à multiples manchons renversés, chauffée par les produits de combustion. A. Grebel. diags Génie Civil 85:95-6 Jl 26 '24
Burners for premixed gas favored. M. L. Wright. Elec W 84:1314 D 20 '24
Catechism of central station gas engineering in the United States. Am Gas J 121: 1247-50, 1269-72, 1293-4 D 6-20 '24
Development of the jet type gas burner. il Gas Age 54:842 D 13 '24
Entrainment of air by a jet of gas issuing from a small orifice in a thin plate. J. S. G. Thomas. diags Philos Mag 6th ser 47: 1048-56 My '24
Entrainment of air by a jet of gas issuing from a small orifice in a thin plate. J. S. G. Thomas and E. V. Evans. diag Philos Mag 6th ser 46:785-801 N '23; Abstract. Gas J (Lond) 164:639-40 D 5 '23
Gas combustion systems. H. F. Rehfeldt. il diags Gas Age 55:187-8+ F 7 '25
Maintenance of lighting burners. C. J. Eves. Gas J (Lond) sup 3:30-1 F 27 '24
Mammoth natural gas burner used for firing rotary kiln—replacing oil. il Gas Age 54:246 Ag 23 '24
Ein neuer gasbrenner für industrielle feuerungen. E. Rosenkötter. diag Zeit Ver Deutsch Ing 69:302-4 Mr 7 '25
Patent Pluto gas burner. diag Gas J (Lond) 167:935 S 24 '24
Peabody combined gas and oil burner. il diag Power 61:155 Ja 27 '25; Power Pl Eng 29: 364 Mr 15 '25
Practical pointers on the lighting of cold furnaces, oil and gas. M. H. Mawhinney. Brass W 20:286-7 Ag '24
Radiant heat gas burner. diags plan Chem & Met Eng 30:556 Ap 7 '24
See also Bunsen burner

Aeration
Aeration of burners; ninth report of Gas investigation committee. il diags Gas J (Lond) 167:92-103; Discussion. 103-5 Jl 2 '24
Mixing device for gas and air. il Chem & Met Eng 30:718 My 5 '24
Selas system of controlling gas furnaces. il diags Engineering 120:555-6 O 30 '25
Thirteenth report of the research sub-committee of the Gas investigation committee of the Institution of gas engineers. il diags Gas J (Lond) 170:879-91 Je 17 '25

Testing
Aeration of burners; ninth report of Gas investigation committee. il diags Gas J (Lond) 167:92-103; Discussion. 103-5 Jl 2 '24

GAS cleaning
See Blast furnace gas—Cleaning; Gas purification; Gas washing

GAS companies
As I see it. J: B. Klumpp. Gas Age 54:549-52 O 18 '24
Building for the present that provides for the future; Pacific gas and electric company. F. M. Harris. il plan Gas Age 56: 669-70 N 7 '25
Company that helped a city to come into its own. J. Heywood. Forbes 15:689-91+ Mr 1 '25
Hostess to 50,000 customers and friends in a week; Kings county lighting company. il Gas Age 56:515-16 O 10 '25
Insurance for gas companies. H: G. Hale, jr. Gas Age 53:355-7 Mr 22 '24
New home of the Providence gas company. J. E. Bullard. il Gas Age 55:315-16+ F 28 '25
Newcastle and Gateshead gas company. W: Batt, jr. Gas J (Lond) 166:686-8 Je 4 '24
Progress at Ipswich as evidenced by the gas offices and showroom. il Gas J (Lond) 167: 871-3 S 17 '24
Report of the A.G.A. insurance committee. Am Gas Assn Accounting sec v 5:436-9 '23
Report of A.G.A. insurance committee. Am Gas Assn Accounting sec v 6:485-9; Discussion. 489-90 '24
Why statistics. F. Parsons. Am Gas Assn Accounting sec v 6:201-9 '24
See also Gas industry; Gas lighting; *also* Consolidated gas company, New York; European gas company, ltd.; General gas and electric corporation; York gas company

Accounting
Bookkeeping without books. G: F. Myers. Am Gas J 120:478+ My 24 '24
Bookkeeping without books in use by the Nashville gas and heating company, Nashville, Tenn. W. N. Porter. Am Gas Assn Accounting sec v 6:470-3; Discussion. 473-82 '24
Bookless bookkeeping. O. E. Wasser. Am Gas Assn Accounting sec v 6:459-69 '24
Budgetary control. F. L. Conrad. Am Gas Assn Accounting sec v 6:293-7 '24; Same abr. Am Gas J 121:982-4 O 14 '24
Continuous inventory of fixed capital. A. J. Smith. Gas Age 53:201-2 F 16 '24; Same. Am Gas J 120:242+ Mr 15 '24
Cost of service and rates based on same. E. Haase. Am Gas Assn General Sessions sec v 5:129-52 '23
Customers accounting. H. F. Frey. Am Gas J 121:1015-16 O 15 '24
Discussion of indirect or undistributed items of cost. A. C. Klein and C. A. Schlegel. Am Gas Assn Accounting sec v 5:457-63 '23
Economics of merchandising. A. P. Post. Gas Age 55:201-2+ F 7 '25
Experiences with modern gas accounting methods. P. H. Sanderson. Am Gas J 123: 8+ Jl 4 '25; Same abr. Gas Age 56:397-8 S 19 '25
Figuring 30,000 gas bills a day. Am Gas J 120: 89+ F 2 '24
Fixed capital accounting records in relation to the construction budget. J. T. Wycoff. Am Gas Assn Accounting sec v 6:308-19; Discussion. 319 '24
Fixed capital records. C. L. Nelson. Am Gas Assn Accounting sec v 5:452-6 '23
Forms prepared for report of committee on analysis of gas company statistics. Am Gas Assn Accounting sec v 6:233-76; Discussion. 277-87 '24
Gas accountancy. H. E. Ibbs. Gas J (Lond) 165:257-8, 314-15 Ja 30-F 6 '24
Machine billing and bookkeeping as in force at Portland gas & coke company. W: H. Barton. Am Gas Assn Accounting sec v 5:565-9 '23
Machine billing of customers' service accounts. J: L. Conover. Gas Age 55:699-700+, 739-40 My 16-23 '25
Making it easy for customers to pay. H. E. Wolff. Am Gas J 123:94+ Ag 1 '25
Merchandise accounting systems. A. R. Keller. Am Gas Assn Accounting sec v 5:531-64; Discussion. 571-7 '23
Meter reading and bill delivering. C. R. Johnson. Am Gas J 123:219-20+ S 12 '25; Same cond. Gas Age 56:567-8 O 17 '25
Method of keeping fixed capital record. E. L. Heyser. Am Gas Assn Accounting sec v 5:481-503; Discussion. 504-9 '23
Necessity for the preparation of budgets. J. T. Hutchins. Am Gas Assn Accounting sec v 6:291-2 '24; Same. Am Gas J 121:980-1 O 14 '24
Proposed system of fixed capital records. F. L. Conrad. Am Gas Assn Accounting sec v 5:464-80 '23
Report of sub-committee on bookkeeping without books. Am Gas Assn Accounting sec v 5:528-30; Discussion. 577-81 '23
Report of sub-committee on methods of the statistician. Am Gas Assn Accounting sec v 6:219-24 '24
Report of sub-committee on value of statistics as applied to sales, revenues and costs. Am Gas Assn Accounting sec v 6:225-8 '24

GAS companies—Accounting—*Continued*
Report of the committee on analysis of gas company statistics. Am Gas Assn Accounting sec v 6:210-18 '24; Excerpts. Am Gas J 121:969-73 O 14 '24
Report on practical operation of expense and cash budgets. Am Gas Assn Accounting sec v 6:298-307 '24
Simplified customers' accounting. S. P. Farwell. Am Gas J 122:307+ Ap 11 '25
Uniform classification of accounts. H. W. Hartman. Gas Age 53:131-2+ F 2 '24; Same. Am Gas J 120:192-3+ Mr 1 '24
Why analyze the statistics of your gas company? Gas Age 55:49-50 Ja 10 '25

Advertising

See Gas industry—Advertising

Complaints

Catechism of central station gas engineering in the United States. Am Gas J 122:12, 35-6 Ja 3-10 '25
Collecting bills and avoiding complaints. L. O. Gordon. Am Gas J 122:485-6+ Je 6 '25
Complaints. E. Evans. Gas J (Lond) sup 3:135-6 Jl 30 '24
Consumers' complaints. H. Percy. Gas J (Lond) 165:637-8 Mr 12 '24
General complaints. E. Nocholson. Gas J (Lond) sup 3:120-1 Je 25 '24
Handling complaints. O. C. Vieweg. Am Gas J 120:455-6+ My 17 '24
Report of the sub-committee on high bill complaints. Am Gas Assn Accounting sec v 5:379-83; Discussion. 399-403 '23
What a survey showed in one company. Gas Age 54:338+ S 6 '24

Costs

Cost analysis and rate making. L. R. Lefferson. Am Gas J 122:119-20 F 7 '25
Cost of service and rates based on same. E. Haase. Am Gas Assn General Sessions sec v 5:129-52 '23
Rate structure in gas business. E. Haase. Am Gas J 122:137-8+ F 14 '25
Report of sub-committee on costs. Am Gas Assn Accounting sec v 5:512-27 '23
Short discussion on the allocation of costs. G. I. Vincent. Am Gas Assn General Sessions sec v 5:153-7 '23

Employees

Brooklyn Union honors old timers. Am Gas J 123:514-15+ O 31 '25
Commercial department and public relations. O. H. Fogg. Am Gas J 123:3-4+ Jl 4 '25
Educating gas employees. J. D. Shattuck. Am Gas J 120:383-4 Ap 26 '24
Employee relations. J. B. Jones. Gas Age 53:660+ My 10 '24
Employees' suggestion contest that helps iron out operation details. J. V. Long. Ptr Ink 125:73-4+ D 27 '23
Every gas employee a sales aid. J. E. Newton. Am Gas J 121:657-8+ Jl 19 '24
Fair weekly wage of various types of employees, foremen, and superintendents. Am Gas Assn Technical sec v 6:1289-92 '24
Gas workers' wages. Gas J (Lond) 169:332 F 11 '25
Getting the facts to the gas company employees. F. W. Parsons. il Gas Age 53:565-6+ Ap 26 '24
How best to pass information contained in gas journals on to the employees. A. D. Whittaker. Am Gas J 120:409-10+ My 3 '24
How to be a success in the gas business. G. W. Allen. Am Gas J 121:767-8+ Ag 23 '24
Humanizing the gas industry. G: H. Wilmarth. Am Gas J 122:305-6+ Ap 11 '25
One man's doctrine—the employee be satisfied; the Blauvelt system. P. H. Hayward. Gas Age 52:713-15 D 8 '23
Premium systems—their effect upon the company. D. E. Buyers. Gas Age 56:391-4 S 19 '25
Report of committee on education of gas company employes. Am Gas Assn General Sessions sec v 6:85-7 '24; Same. Gas Age 54:692 N 8 '24
Report of sub-committee on improving public relations through employees calling at customers' premises. Am Gas Assn Accounting sec v 6:348-60; Discussion. 438-44 '24
Report of sub-committee on welfare of employees as affecting relations of company with customer. Am Gas Assn Accounting sec v 6:383-438; Discussion. 453-5 '24
Sub-committee report on development and education of personnel. Am Gas Assn Accounting sec v 5:330-43; Discussion. 383-8 '23
Sweetening sour employees. J: F. Weedon. Am Gas J 121:1283-4+ D 20 '24
Training the service personnel. T: Mellick. Am Gas J 122:351+ Ap 25 '25; Same. Gas Age 56:181-2 Ag 8 '25
Voice of the telephone operator. E. Farrell. Gas Age 55:775 My 30 '25

See also Gas companies—Salesmen

Engineers' reports

Bankers report on public utilities. H. Almert. Prof Eng 10:7-8 My '25; Correction. 10:6 Je '25

Equipment and supplies

Labor-saving equipment; description of apparatus used in gas distribution work. A. M. Boyd. Am Gas J 121:1242+ D 6 '24
Labor saving equipment in gas distribution. J. E. Burke. il Gas Age 55:401-3+ Mr 21 '25
Use of small trenching machines. A. G. Ford. il Gas Age 55:565-8 Ap 18 '25
Waste and the company's printing bill; a thorough discussion of the printing problem of a gas company. R. A. Pettengill. Am Gas J 121:1069-72 O 17 '24

See also Gas meters

Exhibitions

Gas exhibit in bank of Rhode Island hospital trust company. J. E. Bullard. il Gas Age 53:51-2+ Ja 12 '24

Finance

Accounts of the Gas light and coke company for the year ended Dec. 31. Gas J (Lond) 169:269-70 F 4 '25
Annual report of N. Y. Public service commission. Am Gas J 120:120+ F 9 '24
Brentford gas company's standard price. Gas J (Lond) 169:355-6 F 11 '25
Cash budget. G: E. McKana. Am Gas Assn Accounting sec v 5:428-35 '23; Same. Am Gas J 119:387-8 O 17 '23
Comparative working results of the three metropolitan and four of the suburban gas companies for 1923. F. J. Bradfield. Gas J (Lond) 165:698-9 Mr 19 '24
Comparative working results of the three metropolitan and four of the suburban gas companies for 1924. F. J. Bradfield. Gas J (Lond) 169:680-1 Mr 18 '25
Construction budget. H. C. Davidson. Am Gas Assn Accounting sec v 5:406-14 '23; Same. Am Gas J 119:384-6 O 17 '23
Dividend record of gas utilities. W. G. Maas. J Land & Pub Util Econ 1:372-4 Jl '25
Future new gas plants. L. P. Lowe. Gas Age 55:439-40 Mr 28 '25
Great year for People's gas. il Pub Serv Management 36:134-7 My '24
House heating. C: A. Munroe. Am Gas Assn General Sessions sec v 6:87-97 '24; Same. Gas Age 54:591-5 O 25 '24
Is a new gas regulation act necessary? G: Evetts. Gas J (Lond) 166:306-8 Ap 30 '24
Materials and supplies budget. G: E. McKana. Am Gas Assn Accounting sec v 5:423-7 '23; Same. Am Gas J 119:423-4 O 18 '23
Meter deposits—interest on deposits and collections and cut-offs. C. K. Fletcher. Gas Age 53:812+ Je 7 '24
Operating budget. E: Porter. Am Gas Assn Accounting sec v 5:415-22 '23; Same. Am Gas J 119:420-3 O 18 '23

GAS companies—Finance—*Continued*
Preparation of rate cases. F. C. Hamilton. Am Gas Assn General Sessions sec v 5: 181-7 '23

See also Gas companies—Securities; Gas companies—Valuation of property

Franchises

Validity of franchise contract fixing maximum rate for gas where there is an alternative right of regulation. J: Simpson. Gas Age 54:85-6 Jl 19 '24

Law

Court and commission decisions recently rendered. J: Simpson. Gas Age 54:185-7 Ag 9 '24
Duties of company and landlord as to inspection of pipes. J: Simpson. Gas Age 55:613-14 Ap 25 '25
Gas acts for 1923. Gas J (Lond) 165:197-9, 310-11, 370-1 Ja 23, F 6-13 '24
Gas acts for 1924. Gas J (Lond) 169:25 Ja 7 '25
Gas bills for 1925. Gas J (Lond) 169:142-3, 210 Ja 21-28 '25
Law relating to oil and gas. W: W. Thornton. 4th ed. 2v W. H. Anderson co., Cincinnati '25
Rates passed by the Oklahoma corporation commission upheld. J: Simpson. Gas Age 53:49-50 Ja 12 '24
Some recent legal decisions of importance. J: Simpson. Gas Age 55:907-8 Je 27 '25

See also Gas—Standards; Gas companies—Regulation; Gas rates

Libraries

Value of the company library, compiled for Library exhibit of American gas association. 27p Exhibit committee, Alma C. Mitchill, chairman, Public service corp. of N.J., Newark '25

Management

Automatic installation at Leeds. A. H. Horsfield. Gas J (Lond) sup 4:48-9 F 25 '25
Budget is the guide of the executive. Gas Age 54:429-30+ S 27 '24
Commercializing the distribution department in the service of the public. W. J. Sandeman. Gas J (Lond) 168:721-2; Discussion. 722-3 D 10 '24
Constitution, election, and training of directors. J. H. Brearley. Gas J (Lond) 167: 870 S 17 '24
Co-ordination of order taking and order executing departments. Am Gas Assn Accounting sec v 5:362-78; Discussion. 395-9 '23
Determining customer maximum demand. C. S. Reed. Am Gas J 122:144+ F 14 '25
Diversity of customer demand. C. S. Reed. Am Gas J 122:124+ F 7 '25
It's time to count your losing tricks. R. R. Updegraff. Gas Age 55:791-2 My 30 '25
Just as a suggestion; the Equitable gas company and the Duquesne light company of Pittsburgh suggestion contest. Gas Age 52:803-5 D 29 '23
Maintenance and maintenance systems. F. Caudwell. Gas J (Lond) sup 3:117-20 Je 25 '24
Modern store-keeping organization. H. T. Miller. Gas J (Lond) sup 3:220 N 26 '24
Office organization and customer relations. G. L. Harris. Gas Age 56:925-6+ D 26 '25; Same cond. Am Gas J 123:243-4+ S 19 '25
Organization. W. Gaskin. Gas J (Lond) sup 3:200-2 O 22 '24
Preliminary to co-operation. F. H. Holland. Gas J (Lond) 164:451-2 N 14 '23
Rambling remarks on distribution. J. Graham. Gas J (Lond) 168:790-1 D 17 '24
Ramifications of district work. A. W. Stickler. Gas J (Lond) sup4:114 My 27 '25
Report of sub-committee on costs. Am Gas Assn Accounting sec v 5:512-27 '23
Report of the committee on relations with customers. Am Gas Assn Accounting sec v 5:323-9 '23
Report of the committee on relations with customers. Am Gas Assn Accounting sec v 6:323-5 '24
Sales and service of the small undertaking. J. W. Holroyd. Gas J (Lond) sup 4:106-7; Discussion. 107-8 My 27 '25
Sales development and its relation to the gas business; some commission decisions. P. S. Young. Am Gas Assn General Sessions sec v 5:237-45 '23
Salesmanship as practised in Greenock. J. Simpson. Gas J (Lond) sup 4:14-17 Ja 28 '25
Saving a gas utility. Gas Age 54:873+ D 20 '24
Scientific organization of gas distribution and gas sales departments. A. Coe. 390p Van Nostrand '24
Selling good will. J. E. Bullard. Am Gas J 123:78+ Jl 25 '25
Starting a house heating department. A. Addicks. Gas Age 55:556+ Ap 11 '25
Sub-committee report on credit and collection policies and contractual relations with customers. Am Gas Assn Accounting sec v 5:344-61 '23
Sub-committee report on errors—their correction and prevention. Am Gas Assn Accounting sec v 6:326-47 '24
Sunday labour in gas-works. Gas J (Lond) 168:296-7 O 29 '24
System in the distribution department. A. Collinson. Gas J (Lond) sup 3:17-18; Discussion. 18-19 Ja 30 '24
Waste and the gas company's printing bill. R. A. Pettengill. il Am Gas Assn Accounting sec v 6:491-501 '24
Workings of a gas company. C: W. Geiger. il Am Gas J 121:904+ O 4 '24

See also Gas companies—Employees; Gas companies—Service

Public relations

Appeal to self interest. R. E. Fisher. Am Gas J 119:591+ D 1 '23
Bringing the Providence gas company to the home. Gas Age 53:668+ My 10 '24
Commercial department and public relations. O. H. Fogg. Am Gas J 123:3-4+ Jl 4 '25
Conference on public relations work is successful. H. F. Weeks. Gas Age 56:603-4 O 24 '25
Humanizing a gas company. M. E. Dillon. Am Gas Assn General Sessions sec v 6:62-7 '24; Excerpts. Am Gas J 122:13-15 Ja 3 '25
Open house week removes consumer suspicions. A. Fischer. Gas Age 55:93+ Ja 17 '25
Presenting gas news to the public. B. J. Mullaney. Am Gas J 119:569-71+ N 24 '23
Public relations; its significance to the public and to the gas industry. B. J. Mullaney. Am Gas J 122:100+ Ja 31 '25; Same. Gas Age 55:155-6 Ja 31 '25; Same. Pub Serv Management 38:47 F '25
Public relations symposium. Am Gas Assn General Sessions sec v 5:292-313 '23
Public relations—their improvement through company personnel. P. H. Gadsden. Gas Age 52:663-4 N 24 '23; Same. Am Gas J 119:615-16 D 8 '23; Same. Am Gas Assn General Sessions sec v 5:285-8 '23
Public relations work on the Pacific coast. R. E. Fisher. Am Gas Assn Publicity & Advertising sec v 5:898-903 '23
Report of sub-committee on improving public relations through employees calling at customers' premises. Am Gas Assn Accounting sec v 6:348-60; Discussion. 438-44 '24
Selling the intangible. J. G. Jones. Am Gas Assn General Sessions sec v 5:232-6 '23
This matter of public relations. G. I. Vincent. Am Gas J 120:365, 375-7 Ap 19 '24; Same. Gas Age 53:581-3+ Ap 26 '24

Purchasing

Sell the big ones first. Sales Management 9: 225-6+ Ag 22 '25

Rates

See Gas rates

GAS companies—*Continued*

Records

Method of keeping fixed capital record. E. L. Heyser. Am Gas Assn Accounting sec v 5:481-503; Discussion. 504-9 '23
Proposed system of fixed capital records. F. L. Conrad. Am Gas Assn Accounting sec v 5:464-80 '23
Speeding up work in the service department. R. McDaniel. Am Gas J 121:609-10+ Jl 5 '24

Regulation

Blasted utopia. Gas Age 54:249-50 Ag 23 '24; Same. Am Gas J 121:784-5 Ag 23 '24
Company ownership and operation under public control. J. Abady. Gas J (Lond) 167:459-60 Jl 30 '24
Court and commission decisions. F. L. Daily. Am Gas Assn General Sessions sec v 5: 158-79 '23
Gas light and Brentford amalgamation. Gas J (Lond) 169:30-1 Ja 7 '25
Tottenham district light, heat, and power company; revision of standard price. Gas J (Lond) 169:279-81 F 4 '25

See also Gas—Standards; Gas companies—Law; Gas rates

Safety measures

Accident prevention as associated with the gas industry. C: B. Scott. Safety Eng 50: 41-3 Jl '25
Accident prevention in the gas industry. J. B. Douglas. Gas Age 56:427-8 S 26 '25

See also Gas distribution—Safety devices and measures; Gas works—Safety devices and measures

Salesmen

Address. Donaldson. Gas J (Lond) sup 3:240-1 D 31 '24
Basis of compensation for industrial gas engineers. J. P. Leinroth. Am Gas Assn Industrial Gas sec v 6:669-74 '24; Same. Gas Age 54:527-9 O 11 '24; Same. Am Gas J 121: 1197+ N 22 '24; Discussion. Am Gas Assn Industrial Gas sec v 6:674-82 '24
Budget plan for the salesman. F. H. Williams. Am Gas J 123:222+ S 12 '25
Compensation and its incentive to greater sales effort. T: F. Kennedy. Am Gas Assn Commercial sec v 6:577-83 '24
Don't insult your buyer's intelligence; a few sales pointers for appliance salesmen. P. Ross. Am Gas J 119:589-90 D 1 '23
Education of the salesman. F. W. Goodenough. Gas J (Lond) sup 4:209-10 O 14 '25
Gas salesmen's day at Wembley, Oct. 15, 1924. Gas J (Lond) sup 3:183-9 O 22 '24
Gas salesmen's day at Wembley, Sept. 30, 1925. Gas J (Lond) sup 4:202-9 O 14 '25
How to develop a successful sales organization. P. Cabot. Gas Age 56:483-4+ O 3 '25
Important position a gas salesman holds today. A. E. Mottram. Gas J (Lond) sup 4:91; Discussion. 91-3 Ap 29 '25
Modern problems in the gas sales department. E. L. Oughton. Gas J (Lond) sup 3: 236-8 D 31 '24
Moral obligation of the salesman. W. E. Dexter. Gas J (Lond) sup3:247-8 D 31 '24
Outdoor gas salesman. C. Dickens. Gas J (Lond) sup4:109 My 27 '25
Psychology of the gas salesman. J. Lucas. Gas J (Lond) sup 4:71 Mr 25 '25
Public services circles. G. Keillor. Gas J (Lond) sup 3:12-14, 42-4 Ja 30-F 27 '24
Qualifications of a successful adviser and salesman. A. B. Jones. Gas J (Lond) sup 3:105-6 My 28 '24
"Render unto Caesar the things that are Caesar's". T: F. Kennedy. il Gas Age 54: 615-16+ O 25 '24; Excerpts. Am Gas J 121: 1131+ N 1 '24
Report of sales stimulation committee; with discussion. Am Gas Assn Commercial sec v 5:623-7 '23
Some B.C.G.A. experiences in salesmanship. W. M. Mason. Gas J (Lond) sup 3:210-11 N 26 '24
Some thoughts on salesmanship for the gas salesman. R. B. Williams. Gas Age 55:237-8 F 14 '25
Sulfur'n molasses for salesmen—take it straight. C. C. Brooks. Gas Age 55:425+ Mr 21 '25
Training industrial gas engineers. J. P. Leinroth. Am Gas J 123:43-4+ Jl 18 '25
Truth in salesmanship. T. Newton. Gas J (Lond) sup4:115-16 My 27 '25
Why the drifter? L. B. Michaels. Gas Age 53:373-4+, 411-12+ Mr 22-29 '24
Your customer approach and how to strengthen it. L. G. Herbert. il Am Gas J 120:434 My 10 '24

Securities

Advertising customer ownership. F. H. Williams. Am Gas J 123:52 Jl 18 '25
Customer ownership. Am Gas Assn General Sessions sec v 5:260-2 '23
Experiences with customer ownership. W: H. Hodge. Am Gas J 121:1219-20+ N 29 '24
Gas company securities. J: Moody. Am Gas Assn General Sessions sec v 6:57-62 '24; Same. Gas Age 54:699-700+ N 15 '24; Same. Am Gas J 121:1209-11 N 22 '24
How the Empire gas and electric company successfully sells stock in the Finger Lakes region. il Gas Age 52:779 D 22 '23
John Moody strong for gas stocks. Pub Serv Management 37:126 O '24
Making the first page with only a stockholders' story. R. R. L. Macleod. Gas Age 56:443-4+ S 26 '25
Plan for selling securities to employees. Gas Age 54:768 N 29 '24
Report of customer ownership committee. Am Gas Assn General Sessions sec v 6:128-42 '24
Sell your company as an appropriate Xmas gift. W. B. Stoddard. Gas Age 54:779-80 N 29 '24

Service

Convincing people that home service is a benefit. J. L. Johnson. Gas Age 55:589-90 **Ap 18 '25**
Following up the industrial installations. J. E. Bullard. Am Gas J 119:635-6 D 15 '23
Gas company entertains the home builders; Kings county lighting co. W: P. Macfarlane. Gas Age 55:851-2 Je 13 '25
Give them gas service they can see. M. B. Ainsworth. Gas Age 54:100+ Jl 19 '24
Home economics service in its relation to gas sales. P. Eves. Am Gas Assn Commercial sec v 5:666-71 '23
Home service. J. P. Hanlan. Am Gas J 122: 128-9+ F 7 '25
Home service. A. B. Swann. il Am Gas Assn Commercial sec v 6:536-48; Discussion. 548-51 '24
How one company provides for emergency service. P. J. Lafore. il Gas Age 55:767 My 30 '25
How we started to give Providence home service. D. B. Datson. il Gas Age 55:496+ Ap 4 '25
Importance of a maintenance department. R. E. Pierce. Am Gas J 119:532 N 10 '23
Kitchen door leads to increased gas sales. J. R. Jennings. Gas Age 55:877-8 Je 20 '25
List of gas companies which are doing home service work in their communities. Pub Serv Management 38:13 Ja '25
Maintenance. J. W. M'Lusky. Gas J (Lond) 170:177-8 Ap 15 '25; Discussion. 170:253-4 Ap 22 '25
Maintenance of apparatus on the district. W. R. Moger. Gas J (Lond) 168:902; Discussion. 902-3 D 31 '24
Maintenance of consumers' appliances. J. Davis. Gas J (Lond) sup 4:104-5; Discussion. 105-6 My 27 '25
Maintenance of consumers' appliances. G: Keillor. Gas J (Lond) 170:115-16 Ap 8 '25
Maintenance of domestic consumers' appliances and fittings—administrative policy of gas undertakings. J. W. Napier. Gas J (Lond) 170:114-15 Ap 8 '25

GAS companies—Service—*Continued*
Maintenance of gas appliances. W. S. Anderson. Gas J (Lond) sup 4:89-90 Ap 29 '25
Problem of between season applications for service. A. Fischer. il Gas Age 55:389-90 Mr 14 '25
Service means more than gas and appliances. R. O. Jasperson. il Gas Age 53:231-2 F 23 '24
Service satisfactory to customers. F. L. Blanchard. Am Gas J 120:430-1+ My 10 '24
Value of a home service department. A. B. Swann. Gas Age 56:91-2 Jl 18 '25; Same. Am Gas J 123:45+ Jl 18 '25; Excerpt. Gas J (Lond) sup 4:175 Ag 26 '25
What service means in industrial gas. A. Flanders. Am Gas J 121:829-30 S 13 '24

Taxation
Income-tax allowances for wear and tear of gas-works plant. W. M. Galleway. Gas J (Lond) 170:471-2 My 13 '25
Utility taxation by state and local authorities. J: Simpson. Gas Age 52:793-8 D 29 '23

Valuation of property
Dollar gas law and 650 b.t.u. standard condemned. Gas Age 54:897-8+ D 27 '24
Draft rating and valuation bill. Gas J (Lond) 165:701 Mr 19 '24
Present worth of inventions must be considered in valuation. J: Simpson. Gas Age 54: 46-7 Jl 12 '24
Utility taxation by state and local authorities. J: Simpson. Gas Age 52:793-8 D 29 '23
Valuation determined with regard to higher costs. J: Simpson. Gas Age 53:99-100+ Ja 26 '24
Valuation for gas rate making purposes. J: Simpson. Gas Age 53:133-4 F 2 '24
Valuation for rate making by commissions. J: Simpson. Gas Age 56:73-5+ Jl 18 '25
Valuation for rate-making—operating expenses. Gas Age 54:254+ Ag 23 '24
Valuation of gas-works in Scotland. Gas J (Lond) 164:627-8 Ag 29 '23; Discussion. 164: 639, 771-3 D 5, 19 '23

GAS companies' protection association
Annual general meeting, 27th, Westminster. Gas J (Lond) 168:364-6 N 5 '24

GAS compressors
Combined crankless gas engine and gas compressor. il diags Engineering 119:104, 105-6, 108 Ja 23 '25
Elementary treatise on gas lighting. il diags Gas J (Lond) sup 3:51-4 Mr 26 '24
Four-cycle gas engine compressor is now before the trade. il Nat Pet N 16:65 Ag 20 '24
Influence of cooling a gaseous fluid previous to its compression. Mech Eng 47:298 Ap '25
New natural gas compressing station at Cambridge. il map Gas Age 54:251-3 Ag 23 '24
See also Gas boosters

GAS condensers
Catechism of central station gas engineering in the United States. diags Am Gas J 120: 577-8, 595 Je 21-28 '24
Condensers. F. White. diags Gas J (Lond) 169:744-5; Discussion. 745-6 Mr 25 '25
Locating a water leak on a multitubular condenser. diags Am Gas J 121:1136 N 1 '24
Performance test of a scrubber-condenser. R. F. Davis and J. H. Erwin. chart diag Gas Age 55:405-6 Mr 21 '25

GAS conservation. See Gas, Natural—Conservation

GAS consumption
Economics of appliances fixed with slot meters. Gas J (Lond) 168:348 N 5 '24
Gas consumption in a private house for 1923. Gas J (Lond) 165:144 Ja 16 '24
Gas consumption in a private house for 1924. Gas J (Lond) sup 4:32-3 F 25 '25
Gas consumption of various appliances; tabulation. I. Humphries. Gas J (Lond) sup 3:76-8 Ap 30 '24
Iso-gas-consumption chart. Heat & Ven 22: supp O '25

GAS containers
Precautions in the use of compressed-gas cylinders. Am Mach 63:623 O 15 '25; Same. Refrig W 60:18 O '25; Same. Mech Eng 47:908 N '25; Same. Nat Safety N 12:22 D '25; Excerpt. Eng N 95:734 O 29 '25
Rules for the safe handling of gas cylinders. Am Mach 60:424 Mr 20 '24; Same. Chem & Met Eng 30:545 Ap 7 '24; Same. Chem Age 32:129-30 Mr '24; Same. Chem Age (Lond) 10:571 My 31 '24

GAS cooking
Approaching the women through women. J. E. Bullard. Gas Age 54:411-12+ S 20 '24
Biscuit baking by gas at Liverpool. R. E. Gibson. il Gas J (Lond) 168:31-3 O 1 '24
Commercial bread baking load for gas. H. S. Babb. il Gas Age 54:64-6+ Jl 12 '24
Convincing people that home service is a benefit. J. L. Johnson. Gas Age 55:589-90 Ap 18 '25
Design of gas appliances. K. Bunte. Am Gas J 121:1221-2+ N 29 '24
Domestic uses of coal gas. A. Forshaw. Gas J (Lond) 171:737-8; Discussion. 739-40 S 23 '25
Electric v. gas cookery. Gas J (Lond) sup 4: 81-2 Ap 29 '25
Evolution of the pretzel. J. C. Smith. il Am Gas J 121:813-14+ S 6 '24
Feeding folks features selling of fireless gas range. W. H. Emm. Gas Age 54:916 D 27 '24
Finds gas ranges better than electric ones. R. M. Sieger. il Gas Age 56:657 O 31 '25
Frying of fish and chipped potatoes by gas, in comparison with other methods. E. W. Procter. Gas J (Lond) sup 4:66-7 Mr 25 '25
Gas cooking. H. Hartley. Gas J (Lond) 168: 725-6 D 10 '24
Gas cooking in high-class clubs. il Gas J (Lond) sup 3:133-4 Jl 30 '24
Gas fired hotel range. R. C. Beebe. Am Gas J 121:749-50 Ag 16 '24
Gas for volume cooking. J. W. Cohn. il Am Gas J 122:543-4+ Je 27 '25
Gas in neighborhood bakeries. E. D. Milener. Am Gas J 122:329-30+ Ap 18 '25
Gas in the catering establishments at the British Empire exhibition. il Gas J (Lond) 170:454-7 My 13 '25
Half-million meals a week; British Empire exposition at Wembley. il Gas Age 54:874-5+ D 20 '24
Home service. A. B. Swann. il Gas Age 53: 111-12 Ja 26 '24
Housekeeping without tears. P. S. Hoyte. Gas J (Lond) 172:231-3 O 28 '25
How we started to give Providence home service. D. B. Datson. il Gas Age 55:496+ Ap 4 '25
Ideal canvasser; gas for cooking. Gas J (Lond) sup 2:231-2; sup 3:38, 55 D 26 '23, F 27-Mr 26 '24
Industrial cafeterias offer large appliance market. W: A. Dyer, jr. il Gas Age 56: 687+ N 7 '25
Large gas-heated staff kitchen. il Gas J (Lond) 165:88-9 Ja 9 '24
Making friends of the housewives. W. B. Stoddard. Am Gas J 122:506+ Je 13 '25
New gas-apparatus for the kitchen. A. Danielson. il diag Gas J (Lond) sup 3:49 Mr 26 '24
Notes on fish frying. E. L. Oughton. Gas J (Lond) sup 4:61 Mr 25 '25
Seattle's most modern hotel adopts the gas way. il Gas Age 55:275-6 F 21 '25
Selecting the best fuel for commercial cooking. J. W. Cohn. il Gas Age 53:541-2+ Ap 19 '24; Same cond. Am Gas J 120:289-90+ Mr 29 '24
Small fuel cost per meal in hospital kitchen. W. F. Eve. il Gas Age 55:591 Ap 18 '25
Sub-committee *re* standard method of testing gas cookers. diags Gas J (Lond) 167:130-48 Jl 2 '24
Thermal efficiency of gas-fired utensils. E. A. Oster. il Mech Eng 46:719 N '24; Same. Gas Age 54:743 N 22 '24

GAS cooking—*Continued*
Thousands fed daily by means of gas cooking; Ginter company restaurants. P. J. Lafore. il Gas Age 53:585-6 Ap 26 '24
Who to see and what to sell in hotels. Gas Age 55:720+ My 16 '25
See also Gas stoves

Cost

Electricity and gas cooking. E. G. Ross. Elec R (Lond) 96:670-2 Ap 24 '25
Gas v. electricity for cooking. Gas J (Lond) sup 4:175 Ag 26 '25

Demonstrations

Talking turkey to Providence housewives. J. E. Bullard. Gas Age 54:813-14 D 6 '24

GAS distribution
Adaptation of natural gas distribution systems for distribution of artificial gas. J. E. Burke. Am Gas Assn Technical sec v 6: 1277-80 '24
Aids for the solution of gas compression problems. L. G. Jones. Gas Age 55:37-8 Ja 10 '25
Answers to thirty-two pertinent distribution queries; abstract of report of 1924 committee to American gas association. Am Gas J 121:1065-9 O 17 '24
Automatic regulation of gas pressure. il diags Chem & Met Eng 31:430-1 S 15 '24
Beautifying the drip wagon. J. E. Bullard. il Gas Age 54:378 S 13 '24
Catechism of central station gas engineering in the United States. Am Gas J 121:841-2, 861-4, 885-8, 902-12, 1091-4, 1115-18, 1137-40, 1159-62; 122:189-90 S 13-O 4, 18-N 8 '24, F 28 '25
Distribution of gas. A. Hulbert. diag Am Gas J 123:259-60+ S 26 '25
Distribution of gas. W. B. Payne. il diag Gas J (Lond) 168:787-9 D 17 '24
Distribution of gas, and the exhauster. N. H. Humphrys. diag Gas J (Lond) 169:535-6 Mr 4 '25
Distribution of gas under pressure. C. E. Harford. diags map Gas J (Lond) sup 4: 11-13; Discussion. 13-14 Ja 28 '25
Effect of the house heating load on distribution. C: A. Harrison. Gas Age 56:639-40 O 31 '25
Feat in gas distribution; a thirty-inch gas siphon under the Chelsea Creek, East Boston, Mass. D. S. Reynolds. il Am Gas J 122:285-6 Ap 4 '25
Few distribution experiences. J. B. Henderson. Gas J (Lond) 168:507-9 N 19 '24
Gas distribution. G. H. G. Hughes. Gas J (Lond) 168:727-9 D 10 '24
Gas distribution. C. D. Weinmeister. Gas Age 55:859-60+ Je 20 '25
Gas temperatures in long underground mains. F. M. Reiter. Gas Age 54:245-6 Ag 23 '24
Gasfernleitung. R. F. Starke. map Zeit Ver Deutsch Ing 69:538-46 Ap 25 '25
Grossgasversorgung. R: F. Starke. 274p [bibliog. p. 260] O. Spamer, Leipzig '24
High pressure belt line and district governor system. J. D. Von Maur. diags Gas Age 56: 103-6+ Jl 25 '25
High pressure distribution. R. S. Fuller. Am Gas J 123:459-60+ O 17 '25
High pressure gas transmission and distribution. R. S. Fuller. diags Am Gas Assn Technical sec v 6:908-43 '24; Abstract. Am Gas J 121:1043-8 O 16 '24; Discussion. Am Gas Assn Technical sec v 6:944-54 '24
L' histoire et les progrès de la distribution du gaz à Paris, depuis cent ans. Leprince-Ringuet. diag plan Génie Civil 85:70-1 Jl 19 '24
Interesting pressure investigation. B. R. Carney. map Gas Age 53:647 My 10 '24
Keeping ahead of the demand in distribution. F. A. Lydecker. il diags Gas Age 55:261-4 F 21 '25
Labor-saving equipment; description of apparatus used in gas distribution work. A. M. Boyd. Am Gas J 121:1242+ D 6 '24
Labor saving equipment in gas distribution. J. E. Burke. il Gas Age 55:401-3+ Mr 21 '25
Linking-up rural areas with a high-pressure gas supply. J: E. Morfett. il Gas J (Lond) 166:468-71 My 14 '24
Long distance pressure indicator. C. A. Harrison. diag Am Gas J 119:682 D 29 '23
Maintaining adequate gas supply to outlying districts. il Gas Age 56:508 O 10 '25
Presidential address. J. Campbell. il diags plans Gas J (Lond) 171:605-9 S 9 '25
Presidential address; high-pressure scheme at Harrogate. F. H. Robinson. map Gas J (Lond) 169:600-4 Mr 11 '25
Pressure complaints. H. Pay. Gas J (Lond) sup 4:41 F 25 '25
Remote pressure control for district regulators. F. E. Jinnett. diag Am Gas J 120:170 F 23 '24
Report of the committee on distribution design. Am Gas Assn Technical sec v 5:1054-79; Discussion. 1080-2 '23
Report of the distribution committee. Am Gas Assn Technical sec v 6:1204-6; Discussion. 1313-29 '24
Serving consumers isolated by subway construction. W. E. L. Irwin. il Gas Age 56:203 Ag 15 '25
Some aspects of distribution. S. B. Chandler. Gas J (Lond) 164:652-3; Discussion. 653-5 D 5 '23
Some bad practices found in gas distribution. B. R. Carney. Gas Age 52:767-8 D 22 '23
Tapping large gas mains under heavy pressure. M. R. Thompson. diag Am Gas J 120: 272 Mr 22 '24
Use of labor saving machines in the gas industry. J. K. Crowell. Am Gas J 120:501-2+ My 31 '24
Waste in the distribution department. E. L. Oughton. Gas J (Lond) 164:782-3 D 19 '23
See also Gas, Natural—Transportation; Gas boosters; Gas flow; Gas governors; Gas leakage; Gas mixing; Gas pipes; Manholes

Cost

Comparative costs of H.P. and L.P. gas distribution. R. S. Fuller. Gas Age 54:665-70+ N 8 '24
Fuel problem for the city of Buffalo, N. Y. Coal Age 25:951 Je 26 '24
Why gas rarely replaces coal for house heating. W. S. Blauvelt. Coal Age 26:182-3 Ag 7 '24

Safety devices and measures

Preventing gas main accidents. Gas J (Lond) 168:367 N 5 '24
Regulations for installation, maintenance and use of emergency gas shut-off valves. Safety Eng 48:32-5 Jl '24

GAS-electric motor buses. See Motor buses, Gasoline-electric

GAS engineering
Catechism of central station gas engineering in the United States. Am Gas J 120:11-14, 35-8, 59-62, 75-8, 105-8, 125-8, 145-8, 171-4, 203-6, 225-8, 247-50, 273-6, 295-8, 319-22, 347-50, 371-4, 393-6, 415-18, 439-42, 463-6, 485-8, 507-10, 531-4, 553-6, 575-8, 595-8; 121: 619-22, 641-4, 663-6, 687-90, 709-12, 731-4, 755-8, 777-80, 799-803, 821-4, 839-42, 861-4, 885-8, 909-12, 1091-4, 1115-18, 1137-40, 1159-62, 1183-6, 1205-8, 1227-30, 1247-50, 1269-72, 1293-6, 1315-16+; 122:11-12, 35-6, 57-8, 79-80, 101-2, 147-8, 167-8, 189-90, 211-15, 233-4, 255-6, 275-6, 295-6, 317-18, 339-40, 359-60, 379-80, 401-2, 425-6, 449-53, 471-2, 493-4, 513-14, 533-8, 553-5; 123:13-14, 33-4, 55-6, 79-80 Ja 5-O 4, 18 '24-Ja 31, F 14-Jl 25 '25
Gas engineers' compendium. 292p Van Nostrand '24
XLVIII[e] congrès de la Société technique de l'industrie du gaz en France. diags Génie Civil 87:18-20 Jl 4 '25
Selling industrial gas to engineering students of our colleges. H. F. Weeks. il Gas Age 55:804-6 Je 6 '25

GAS engineering—*Continued*
Summary of the proceedings of technical section of American gas association. Gas Age 54:589-90+ O 25 '24

See also Gas and oil engines; Gas distribution; Gas fitting; Gas heating; Gas lighting; Gas manufacture; *also* Institution of gas engineers

Examinations

City and guilds of London institute examinations. diags Gas J (Lond) 170:480-2, 542-3 My 13-20 '25
Examination under the education scheme of the Institution of gas engineers. Gas J (Lond) 170:478-9 My 13 '25
Examinations under the education scheme of the Institution of gas engineers. Gas J (Lond) 166:537-8 My 21 '24

Study and teaching

Advanced training in gas and fuel engineering. Chem & Met Eng 32:447 Ap '25
Careers in industry and commerce. F. W. Goodenough. il Gas J (Lond) 165:151-3 Ja 16 '24
Correspondence course in gas starts in September. Am Gas J 122:457-8 My 23 '25
Course in gas engineering at Johns Hopkins. E. L. Rieha. Am Gas Assn General Sessions sec v 6:156-8 '24
Education scheme of the Institution of gas engineers. Gas J (Lond) 168:33-4, 634-5; 169: 620-1; 170:235-6; 172:217 O 1, D 3 '24, Mr 11, Ap 22, O 28 '25
Education scheme; report of the advisory committee for the year 1924-25. Gas J (Lond) 170:877-8 Je 17 '25
Educational needs of the gas industry. C. A. Luckenbach. Am Gas J 123:266+ S 26 '25
Massachusetts institute of technology; annual industrial gas course. Gas Age 53:732 My 24 '24; Am Gas J 123:176+ Ag 29 '25
New gas and fuel engineering course at M. I. T. J. E. Bullard. Gas Age 55:415+ Mr 21 '25
Technical training within the gas industry. W. Hole. Gas J (Lond) 171:669-72 S 16 '25; Discussion. 171:730-1 S 23 '25
United States gas engineering course in Johns Hopkins university. Gas J (Lond) 167:745 S 3 '24

GAS exhausters
Catechism of central station gas engineering in the United States. diags Am Gas J 120: 575-8 Je 21 '24
Safety apparatus for exhauster control. A. Nerrière. diags Gas J (Lond) 171:448 Ag 19 '25

GAS explosions. See Explosions

GAS fires
Extinguishing ignited gas mains. Sci Am 130: 81 F '24

See also Gas, Natural—Fires and fire protection

GAS fitting
Automatic installation at Leeds. A. H. Horsfield. Gas J (Lond) sup 4:48-9 F 25 '25
Co-operating with the architect. W. A. Adams. Am Gas J 122:267+ Mr 28 '25
Gas distribution. G. H. G. Hughes. Gas J (Lond) 168:727-9 D 10 '24
House piping. J. E. Davies. Am Gas J 122: 117-18+ F 7 '25
House that Jack built. A. Tennant. Gas J (Lond) sup 4:64-5; Discussion. 65-6 Mr 25 '25
How the gas industry may assist the builder and architect. R. J. Rogers. diags Gas J (Lond) sup 4:186-9 S 30 '25
Master plumber and the heating contractor are the logical distributors of gas heating and cooking devices. il Dom Eng 105:373-4 N 24 '23
Specification as to the construction and placing of internal pipes, meters, and fittings. W. B. M'Lusky. Gas J (Lond) 170:602-5; Discussion. 605-6; 172:423-4 My 27, N 18 '25
Tentative program for testing gas appliances. 8p U.S. Bur. of standards, Washington '24
Useful information for gasfitters. Gas J (Lond) sup4:118 My 27 '25

Estimates

Estimating. Ellery. Gas J (Lond) sup 3:31-2 F 27 '24

Study and teaching

Education of the gasfitter. T: Newton. Gas J (Lond) sup 4:82 Ap 29 '25
Education of the gasfitter: his place in the circle of service. R. J. Rogers. il Gas J (Lond) 169:675-8; Discussion. 678-9 Mr 18 '25
Efficient fitting staff as an aid to gas sales. E. J. Penn. Gas J (Lond) sup 4:133 Je 24 '25

GAS fittings

Manufacture

Construction of gas fittings. B. H. W. Spittle. Gas J (Lond) sup 4:72-3 Mr 25 '25

GAS flow
Catechism of central station gas engineering in the United States. Am Gas J 121: 909-12 O 4 '24
Critical pressure-ratio for gases as affected by variable specific heat. W. J. Walker. Philos Mag 6th ser 48:703-7 O '24
Effect of pulsations on flow of gases. H. Judd and D. B. Pheley. Ohio U, Columbus, Eng Exp Sta Bul 24:1-112 '23
Electrical measurement of physical values; abstracts. P. A. Borden. Am Inst E E J 44: 363-5 Ap '25; Power Pl Eng 29:395-7 Ap 1 '25
Flow of blast furnace gas in large mains. J. F. Barkley. diag Iron Age 113:1811+ Je 19 '24
Flow of gas in pipes. S. Lacey. Gas J (Lond) 166:817-18 Je 18 '24
Flow of gas or air in pipes. F. H. Smith. Blast F & Steel Pl 12:448-9+ O '24
Flow of gases in furnaces as a function of their temperature drop; abstract. H. Southern. Mech Eng 46:282 My '24
Gas flow formulae and stock pipe size recommended on West coast. Gas Age 52:614 N 17 '23
Gravity of gas affects flow from orifices. O. L. Kowalke and R. L. Rundorff. Gas Age 53:683-4 My 17 '24
Heat transfer through turbulent gas flow. L. R. Stowe. diags Power 59:425-6 Mr 11 '24; Abstract. Gas Age 53:721-2 My 24 '24
Pressure-drop in straight service pipes and mains. A. Gadd. Gas J (Lond) 171:666 S 16 '25
Regulating flow of gas to calorimeters. diag Am Gas J 122:73-4 Ja 24 '25
Some sulphite mill calculations. W. V. Van Arsdel. Paper 34:1184-7 O 16 '24
Technical use of liquid chlorine in France. H. Barthelemy. diags Color Tr J 15:148-50 N '24
Thirteenth report of the research sub-committee of the gas investigation committee of the Institution of gas engineers. il diags Gas J (Lond) 170:879-91 Je 17 '25
Using a valve to measure flow of gas. F. M. Reiter. Gas Age 54:469-70 O 4 '24
Using the mixture method in measuring flow of gases. C: P. Turner and B. W. Winship. il plan Chem & Met Eng 30:633-5 Ap 21 '24

See also Air flow; Fluids; Gas meters

GAS governors
Catechism of central station gas engineering in the United States. Am Gas J 120:319-20; 121:757-8, 777-8 Ap 5, Ag 16-23 '24
Gas governors. diag Gas J (Lond) 170:127 Ap 8 '25
New thermostatic gas-valve for high temperatures from 500° Fahr. upwards. il Gas J (Lond) 166:598-9 My 28 '24

GAS heaters
Acquainting the public with gas space heaters. W. B. Stoddard. il Gas Age 52:599-600 N 10 '23

GAS heaters—*Continued*
Carbon monoxide from domestic gas heating appliances. N. C. Dysart, E. R. Hayhurst and F. Berry. il Nation's Health 6:231-3+ Ap '24
Carbon monoxide hazards from house heaters burning natural gas. G. W. Jones, L. B. Berger and W. F. Holbrook. il diags U S Bur Mines Tech Pa 337:1-31 '23
Carbon monoxide in gas heaters due to incomplete combustion. Eng N 92:987 Je 5 '24
Dangers from carbon monoxide given off by heaters burning natural gas. G. W. Jones and W. P. Yant. diags Am Soc Heat & V E J 29:669-81 D '23
Electrically lighted gas furnace in the floor. diag Sci Am 129:417 D '23
Gas heaters and ranges for Xmas. W. B. Stoddard. Am Gas J 121:1241+ D 6 '24
Gas heating for garages. il Gas J (Lond) sup 3:193 O 22 '24
Hiring systems in Coventry. B. Skidmore. Gas J (Lond) sup 3:58-9 Mr 26 '24
Pushing gas heater sales. F. Farrington. Am Gas J 120:313-14 Ap 5 '24
Sell winter home comfort before you sell gas heaters. E. A. Dench. Am Gas J 121:901-2+ O 4 '24
Study of the unit hot air heater; its possibilities as a gas fired space heating appliance. H. DeW. Valentine. il Gas Age 53:467-9+ Ap 12 '24; Same cond. Am Gas J 120:479-80+ My 24 '24
See also Gas water heaters

GAS heating
Are you selling the gas boiler idea in the home? H. D. Gillingham. il Gas Age 55:529-30 Ap 11 '25
Battle for heating business. H. O. Loebell. Am Gas J 122:199-200+ Mr 7 '25
California's big heating job; installation of gas heating boilers in Los Angeles chamber of commerce. H. A. Tatum. il Dom Eng 113:37-8 O 31 '25
Campaign among the doctors. H. H. Creasey. Gas J (Lond) 168:93-4 O 8 '24
Can the architect be sold on gas heating—and how? S: Warren. Gas Age 55:533-4+ Ap 11 '25
Carbureted water gas for domestic heating. S. O. Andros. Dom Eng 112:16-18 S 26 '25
Case for gas as an aid to health. W. M. Mason. Gas J (Lond) 168:92-3 O 8 '24
Concerning the efficiency of gas warm air furnaces. O. J. Kuenhold. Gas Age 56:89-90 Jl 18 '25; Same. Sheet Metal Worker 16:483-4+ Jl 31 '25
Convenience— the star salesman of gas heating. H. L. Whitelaw. il Gas Age 55:521-2 Ap 11 '25
Converting coal furnaces to gas usage. J. F. Meader. il Gas Age 53:495-6+ Ap 12 '24
Denver residence gas-heating experiment. T. M. Foulk and T. G. Storey. il diags Heat & Ven 20:37-43 O '23; Same. Gas Age 52: 389-93+ O 6 '23; Same. Sanitary & Heat Eng 100:377-82+ D 14 '23; Same. Am Gas Assn Technical sec v 5:1083-1107 '23; Same, without table. Am Gas J 119:388-92 O 17 '23
Direct gas heating dangerous. L. G. Timmons. Sanitary & Heat Eng 102:410-11 D 12 '24
Domestic heating and the gas-fire. Dr Hartley. Gas J (Lond) sup 3:10-11 Ja 30 '24
Domestic uses of coal gas. A. Forshaw. Gas J (Lond) 171:738-9; Discussion. 739-40 S 23 '25
Economical conversions of house heating furnaces. J. F. Meader. charts Gas Age 55: 546+ Ap 11 '25
Effect of the house heating load on distribution. C: A. Harrison. Gas Age 56:639-40 O 31 '25
Even balmy California needs its heating. il diags Gas Age 55:539-40 Ap 11 '25
Experiments in residence gas heating. il Sheet Metal Worker 14:991-4 Ja 18 '24
Follow-up system for selling house-heating equipment. J: T. Bartlett. Gas Age 54:784 N 29 '24
Fuel of the future—what shall it be? I. Ginsburgh. Am Gas J 120:27-30+, 565-6, 580-2 Ja 12, Je 21 '24
Future of heating as seen by the gas men. J. E. Bullard. Heat & Ven 21:41-2+ Ap '24
Gas as fuel for warm-air furnaces. G. C. Carnahan. charts diags Sheet Metal Worker 15:635-7+, 674+ S 12-26 '24
Gas as fuel for warm-air furnaces. T: Newton. Sheet Metal Worker 15:783+ N 7 '24
Gas fire. Davies. Gas J (Lond) sup 3:219-20 N 26 '24
Gas-fires in hotels and boarding-houses. A. Whitehead. Gas J (Lond) 165:712; Discussion. 712-13 Mr 19 '24
Gas for house heating. J: B. Allington. il Gas Age 55:535-6 Ap 11 '25
Gas for space heating. H. Strache. Am Gas J 122:374+ My 2 '25
Gas heating. A. J. Bishop. Gas J (Lond) sup 4:21 Ja 28 '25
Gas heating system increases church attendance. L. R. White. il Gas Age 53:493-4 Ap 12 '24
Gas heating that more than paid the amount of the gas bill. C. S. Hilton. il Gas Age 56: 57-8 Jl 11 '25
Gas house heating. Pub Serv Management 36: 20 Ja '24
Gas house heating—a cooperative selling plan. H. L. Whitelaw. Gas Age 55:915-17 Je 27 '25
Gas house heating satisfies in New England. J. E. Buliard. Gas Age 54:235-6 Ag 16 '24
Gas in new houses. A. Hill. Gas J (Lond) sup 3:14-15 Ja 30 '24
Gas industry on qui vive for house heating load. C. G: Segeler. map Heat & Ven 22: 69-71+ O '25
Gas sales and builders' business. W. L. Westbrook. Gas J (Lond) 164:783-5 D 19 '23
Gas steam boiler replaces oil burner in Worcester. R. J. Phelon and R. D. Hawkins. il Gas Age 56:441-2+ S 26 '25
Health, wealth and happiness are saved by gas; ideal community in Baltimore. il Gas Age 55:552+ Ap 11 '25
Heating a tent with gas. il Gas Age 55:558+ Ap 11 '25
Heating homes by gas. E. W. Riesbeck. il Dom Eng 112:16-18 S 5 '25
Heating New England homes with gas. il chart Heat & Ven 22:63-7 Ag; 59-63 S '25
Heating of houses. A. H. Barker. Gas J (Lond) 165:482 F 27 '24
Heating our homes with gas. F. W. Parsons. Gas Age 53:475-6+ Ap 12 '24
High office buildings adapted to use of gaseous fuel. C. M. Robert. il Gas Age 55:531-2 Ap 11 '25
House heating. C: A. Munroe. Am Gas Assn General Sessions sec v 6:87-97 '24; Same. Gas Age 54:591-5 O 25 '24
Househeating and industrial gas. H: L. Doherty. Am Gas J 122:545-6+ Je 27 '25
House heating and its problems. J. W. Howard. Gas Age 55:515-17+ Ap 11 '25; Excerpts. Am Gas J 122:468+ My 30 '25
House heating business. G: A. Wallace. il Am Gas J 120:521-2+ Je 7 '24
House-heating by combining the use of gas and oil. H: O. Loebell. Heat & Ven 22: 84-6 S '25
House heating by gas is a merchandising problem. E: P. Bailey, jr. Gas Age 56: 655-6+ O 31 '25
House heating experience in New England. A. L. Flanders. Gas Age 55:849-50+ Je 13 '25; Same. Am Gas J 123:195-6+ S 5 '25
House heating experiences in Battle Creek. D. H. Frazer, jr. Gas Age 56:269-70 Ag 22 '25; Same cond. Am Gas J 123:96+ Ag 1 '25
Househeating from the distribution standpoint. Am Gas Assn Technical sec v 6:1206-9 '24
How to burn gas. S. S. Wyer. Heat & Ven 22:94 Mr '25
Ideal canvasser; gas for heating. Gas J (Lond) sup 2:169-70, 202-3 S 26, N 28 '23
Installation of gas fires. W. H. Becket. Gas J (Lond) sup 4:38-9 F 25 '25

GAS heating—*Continued*
Installing gas warm air heaters in the home. O J. Kuenhold. Gas Age 56:547-8+ O 10 '25
Is the industry sold on gas house heating. C. S. Hilton. il Gas Age 54:687-9+ N 8 '24
Keeping Dallas warm with gas. R. M. Redding. Gas Age 56:485-8 O 3 '25
Making progress with the hot air furnace. il chart Gas Age 53:472-4 Ap 12 '24
Merchandising and the scientific study of markets. P. White. charts Gas Age 56:87-8+ Jl 18 '25
Modern suburban homes are gas heated. H. D. Gillingham. il Gas Age 53:470-1 Ap 12 '24
More house heating. J. Lucena. diag Am Gas J 122:206+ Mr 7 '25
More house heating business. G. I. Vincent. Am Gas Assn Commercial sec v 6:569-71 '24; Same. Am Gas J 121:1110+ O 25 '24; Same. Gas Age 54:781-2 N 29 '24; Discussion. Am Gas Assn Commercial sec v 6: 571-2 '24
Most economically heated building uses gas. L. B. Mettler. il Gas Age 54:219-20 Ag 16 '24
One season's experiences in house heating. G: R. Horning. Gas Age 54:357-8+ S 13 '24
Past, present and future; a brief general résumé of 1924 progress in house heating by gas. J. R. Jennings. Gas Age 55:513-14+ Ap 11 '25
Practical notes on house-heating by gas. chart diags Heat & Ven 21:43-7 D '24
Progress and prospects. T. King. il Gas Age 55:523-4 Ap 11 '25
Progress in gas house heating at Rochester. H. C. Deffenbaugh. il Gas Age 54:7-9 Jl 5 '24
Progress of house heating by gas in Chicago. G. C. Carnahan. Heat & Ven 22:63-5 Je; 62-4 Jl '25
Proper design of the gas-fuel furnace. H. V. Payne. il Sheet Metal Worker 15:863-4+ D 5 '24
Providence gas company stages heating exposition. J. E. Bullard. il Gas Age 56: 627-8 O 24 '25
Report of the committee on house heating. E. D. Milener. Am Gas Assn Industrial Gas sec v 5:760-3; Discussion. 764-72 '23
Results in building and house-heating at Boston. il Gas Age 53:479-81 Ap 12 '24
Selling gas for heating. A. J. Garward. Gas J (Lond) sup 2:227-8 D 26 '23
Selling quality heating to customers. H: L. Eckenroth. Gas Age 53:489-90 Ap 12 '24
Selling the gas-fired warm-air furnace. H. V. Payne. il Sheet Metal Worker 15:384-6, 411-13 Je 6-20 '24
Some aspects of house heating. J: B. Allington. Am Gas J 121:781-2 Ag 23 '24
Some house heating problems and their solutions. O. Royal. il Gas Age 55:527-8 Ap 11 '25
Some sales experiences with house heating. J. W. Howard. il Gas Age 55:656+ My 2 '25
Some selling pointers on house heating. J. W. Howard. Gas Age 55:879-82+ Je 20 '25; Same cond. Am Gas J 123:550+ N 14 '25
Some thoughts on the progress of gas heating. J. E. Kinner. Am Soc Heat & V E J 30:317-19 Ap '24; Same. Gas Age 53:658+ My 10 '24
Ten ways to heat a home by gas in southern California. T. J. Potter. Gas Age 55:61-2 Ja 10 '25
This house heating business. G. I. Vincent. Am Gas Assn Commercial sec v 5:611-17 '23; Same. Am Gas J 119:377-81 O 17 '23; Same. Sheet Metal Worker 14:831-3+ N '23; Same. Gas Age 52:589-92 N 10 '23; Discussion. Am Gas Assn Commercial sec v 5:618-22 '23
Three typical Baltimore gas fired installations. E. D. Milener and W. S. Allen. il Gas Age 53:487-8 Ap 12 '24
Unequalled advantages of the radiant gas fire. F. W. Parsons. Gas Age 55:259-60 F 21 '25
Unit system of gas-fuel furnace heating. H. V. Payne. il Sheet Metal Worker 15:935-6 Ja 2 '25
Utility of gas in modern buildings. W. M. Mason. il plans Gas J (Lond) 171:614-18 S 9 '25
What about house heating? H. E. G. Watson. Am Gas J 121:878+ S 27 '24; Same. Gas Age 54:389-90 S 20 '24
What gas plants can handle house heating demands? J. A. Perry. Gas Age 55:671-2+ My 9 '25
What the Pacific coast is doing with gas heating. C. B. Babcock. il Gas Age 55:519-20 Ap 11 '25
What's coming in the house heating field? F. Parsons. Am Gas Assn General Sessions sec v 6:142-50 '24
When New England considers house heating. J. E. Bullard. il Gas Age 56:585-6+ O 17 '25
Why gas rarely replaces coal for house heating. W. S. Blauvelt. Coal Age 26:182-3 Ag 7 '24

See also Gas heaters; Gas steam radiators; Gas water heaters

Control

Thermostatic and distant control of furnaces and boilers. O. J. Kuenhold. diags Gas Age 56:337-9+ S 5 '25
Thermostatic control for domestic gas fired heating. R. C. Martin. il Gas Age 55:537-8 Ap 11 '25

GAS heating, Industrial. See Gas as fuel; Gas industry

GAS holders
Beautifying Denver's district holder stations. W. L. Thackrey. diag Gas Age 56:15+ Jl 4 '25
Catechism of central station gas engineering in the United States. diag Am Gas J 121:709-12, 731-4, 755-8 Ag 2-16 '24
Construction of a spirally guided gasholder and tank at Garston. E. Astbury. il diag Gas J (Lond) 169:684-6 Mr 18 '25
Design and construction of a gasholder tank at Burnley. A. D. Young. il Gas J (Lond) 169:344-8 F 11 '25
Effect of wind pressure on the top curbs of tanks for spirally-guided gas-holders. A. Gadd. diags Gas J (Lond) 169:461-2 F 25 '25
Electric welding of gas works apparatus. il Gas Age 53:795-6 Je 7 '24
Electrolytic corrosion in a water gas holder. Gas Age 54:771 N 29 '24
Electrolytic corrosion in a water-gas holder. F. H. Rhodes and E. B. Johnson. Ind & Eng Chem 16:575 Je '24; Same. Am Gas J 120:557-8 Je 14 '24; Same. Gas Age 53:837-8 Je 14 '24
Enlarging a small gasholder. il Gas J (Lond) 172:36 O 7 '25
Erecting a gas holder. A. F. Davey. Am Gas J 122:392+ My 9 '25
Erecting dry gas holder. diags Am Gas J 122: 141 F 14 '25
Gas holder seams welded by oxy-acetylene torch. G. O. Carter. il Gas Age 53:69-72 Ja 19 '24
Gasholders; the useless top lifts. N. H. Humphrys. Gas J (Lond) 170:254-5 Ap 22 '25
Inauguration of a new gasholder at Southend. il diags Gas J (Lond) 168:719-20 D 10 '24
Internal corrosion of gas holders. C. A. Schnerr. Am Gas J 120:263-4+ Mr 22 '24; Same abr. Gas J (Lond) 166:175-6 Ap 16 '24
Internal corrosion of holders. R: Engler. Am Gas J 123:509-10+ O 31 '25
Leveling up gasholder landing blocks. A. H. T. Williams. il Eng N 95:193 Jl 30 '25
Maximum load on roller axles of a spirally-guided gasholder. A. Gadd. Gas J (Lond) 164:41-3 O 3 '23; Discussion. R. J. Milbourne. 165:636-7 Mr 12 '24
New gasholder and steel tank at Lea Bridge gas-works. D. C. Cross. diag Gas J (Lond) 169:272-3 F 4 '25

GAS holders—*Continued*
New gasholder at Coatbridge. il Gas J (Lond) 166:744, 840-1 Je 11-18 '24
New holder at Dundee. il Gas J (Lond) 165: 548-9 Mr 5 '24
New holder at Redcar. il Gas J (Lond) 169: 31 Ja 7 '25
New oil for protecting gas holders. R. Mezger. Am Gas J 122:74, 81-3 Ja 24 '25
New seven-million cubic feet holder at Belfast. il Gas J (Lond) 164:509-11 N 21 '23; Am Gas J 119:678+ D 29 '23
New type of gas holder ordered by Northern Indiana gas and electric co. Gas Age 53:520 Ap 19 '24; Am Gas J 122:149 F 14 '25
New type of gas storage holder. A. S. Miller. il diag W Soc E J 30:249-53 Je '25; Same. Gas Age 55:601-2 Ap 25 '25
New waterless gas holder nearing completion. E. F. Gardiner. il Gas Age 54:553-4 O 18 '24
Pennsylvania engineering works announces plans to build gas holders. il Gas Age 53: 25-6 Ja 5 '24
Present-day requirements of gasholder storage. J. J. Scott. Gas J (Lond) 171:610-11; Discussion. 611 S 9 '25
Some experiences with gasholder tanks in a mining area. C: Dru Drury. il diags Gas J (Lond) 170:368-73 My 6 '25
Tankless gasholder. Gas J (Lond) 170:846-7 Je 17 '24
Tankless gasholder at the Etablissements Arbel, Douai, France. L. R. d'Estape. diags Gas J (Lond) 170:911-13; Discussion. 913-14 Je 17 '25
Tankless gasholders. Gas J (Lond) 169:691-2 Mr 18 '25
Two-lift spiral-guided holder at Honley. il Gas J (Lond) 170:123 Ap 8 '25
Use of reinforced concrete in gas holder tanks. J. F. Springer. il Gas Age 55:219-20+, 445-6+ F 14, Mr 28 '25
Water gas holder makes its appearance in U.S. il Am Gas J 120:388+ Ap 26 '24; Gas J (Lond) 166:741 Je 11 '24
Waterless gasholders. F. H. Wagner. il diags Gas J (Lond) 171:336-9 Ag 5 '25
Waterless gasholders built at Michigan City and Flushing. A. S. Miller. il diags plans Eng N 94:437-8 Mr 12 '25

Repair

Gas holder lifts welded together. il Eng N 93:876 N 27 '24
Gas holder patches. diags Am Gas J 122:8 Ja 3 '25
Interesting reconstruction of a gasholder at the Isle of Thanet gas company's works. il diags Gas J (Lond) 167:578-9 Ag 13 '24
Repairing a gas holder by metallization. il Am Gas J 122:131 F 7 '25

GAS holders, Concrete
Spiral-guided holder and ferro-concrete tank. L. R. Hislop. il diags plan Gas J (Lond) 166:105-10; Discussion. 110-11 Ap 9 '24

GAS in refrigeration
Gas refrigeration—why and how. H. D. Valentine. Gas Age 56:541-3+ O 10 '25
Refrigerating with gas. W. F. Schaphorst. Am Gas J 121:1149-50+ N 8 '24
Refrigeration—a desirable outlet for gas. H. D. Valentine. il diags Gas Age 52:431-6 O 13 '23; Same cond. Am Gas J 119:629-31+ D 15 '23
Refrigeration and its relation to the gas industry. H. E Keeler. Gas Age 56:421-2, 609-10+ S 26, O 24 '25

GAS industry
Address. J. Dickson. Gas J (Lond) 166:185-6 Ap 16 '24
Are the gas companies ready for industrial business? H: O. Loebell. Gas Age 56:643-6 O 31 '25
Basic gas problems. C. R. Prichard. Am Gas J 122:177-8+ F 28 '25; Same. Gas Age 55: 296+ F 28 '25
Cheaper gas and greater consumption. W. B. M'Lusky. chart Gas J (Lond) 164:385-6; Discussion. 386-8 N 7 '23
Coming gas competition. J. E. Bullard. Am Gas J 120:589+ Je 28 '24
Competition we must meet—but how will we do it? H. O. Loebell. Gas Age 55:377-8 Mr 14 '25
Do electrical washers aid sales of all gas laundries? Gas Age 55:625-6 Ap 25 '25
Essentials of gas progress. F. C. Weber. Am Gas J 122:6+ Ja 3 '25
Few of the high spots of outstanding importance. A. Forward. Am Gas J 120:457+ My 17 '24
Fires that never go out; some problems of the gas industry today. E. R. Hamilton. Am Gas J 123:237-8 S 19 '25
Gas as a public service. H. E. Bloor. Gas J (Lond) 166:39-41 Ap 2 '24
Gas charges and industrial gas. E. W. Smith. Gas J (Lond) 171:672-3 S 16 '25; Same. Gas Age 56:561-2+ O 17 '25
Gas for the house. W. B. M'Lusky. Gas J (Lond) 164:320-3; Discussion. 323-5 O 31 '23
Gas in industry—some thoughts for executives. C. S. Hilton. il Gas Age 55:313-14 F 28 '25; Same cond. Am Gas J 122:182+ F 28 '25
Gas industry and its work. J. B. Klumpp. Am Gas Assn General Sessions sec v 6:46-52 '24; Same. Am Gas J 121:1001-4 O 15 '24
Gas industry in best-ever condition. P. S. Young. Am Gas J 122:369-70+ My 2 '25
Gas man's business; commercial section of the Empire state gas and electric association meeting at Buffalo. J. R. Jennings. Gas Age 53:917-18 Je 28 '24
Gas men must have confidence in their industry. A. Forward. Am Gas J 120:190-1 Mr 1 '24
Gas sales—looking ahead. S. H. Wheble. Gas J (Lond) sup 4:110-11 My 27 '25
Gas salesman in 1924. W. Ellis. Gas J (Lond) sup 3:9-10 Ja 30 '24
Gas—what of its future? Am Gas J 123:178+ Ag 29 '25
Househeating and industrial gas. H: L. Doherty. Am Gas J 122:545-6+ Je 27 '25
How the gas industry is helping to solve the smoke problem. H. Hartley. Gas J (Lond) 170:376-7 My 6 '25
How to solve the industrial gas problems of the small gas company. E. G. de Coriolis. Am Gas Assn Industrial Gas sec v 6:660-4 '24; Same. Am Gas J 121:1224+ N 29 '24; Same. Gas Age 54:749-50 N 22 '24; Discussion. Am Gas Assn Industrial Gas sec v 6: 664-9 '24
Importance of industrial load to the small gas company. J. P. Leinroth. Gas Age 53: 105-6 Ja 26 '24; Same. Am Gas J 120:239+ Mr 15 '24
Industrial gas at the crossroads. W. M. Carpenter. Am Gas J 121:1239-40+ D 6 '24
Industrial gas business. W. D. Thompson. Am Gas J 121:667-8 Jl 19 '24
Industrial gas business has lighter side. A. J. Smith. Am Gas J 123:70+ Jl 25 '25
Industrial gas class of New England meets. J. E. Bullard. Gas Age 52:627-8 N 17 '23
Industrial gas—its place in the industry. C: A. Munroe. Am Gas Assn General Sessions sec v 5:264-73 '23
Industrial gas situation. F. F. Cauley. Am Gas J 121:818+ S 6 '24; Same. Gas Age 54:323-6 S 6 '24
Industrial section completes year of accomplishment. H. O. Andrew. il Gas Age 56: 599-601+ O 24 '25
Is industrial gas business prohibitive because of an incompetent sales personnel? A. B. Greenleaf. il Am Gas J 121:1105-6+ O 25 '24
Is industrial gas business prohibitive because the rates are too high? A. B. Greenleaf. il Am Gas J 121:721-4 Ag 9 '24
Looking into the future. W. D. Wilcox. Gas Age 56:385-6 S 19 '25
New England gas men asked to heed gas progress. C. E. Paige. Gas Age 53:194a-d F 16 '24
Oil conservation and the gas industry. H. C. Abell. Am Gas J 122:91+ Ja 31 '25; Same. Gas Age 55:159 Ja 31 '25

GAS industry—*Continued*
Plea for co-operation between the gas industry and the trader. F. Cornelius-Wheeler. Gas J (Lond) 170:729-30 Je 10 '25
Possibilities of new business discussed by New England gas men at Boston. J. E. Bullard. Gas Age 53:313-14+ Mr 15 '24
Present position of the gas industry. Gas J (Lond) 165:696, 765-7 Mr 19-26 '24
Present trend of the manufactured gas industry. F. W. Steere. Ind & Eng Chem 17:94-5 Ja '25; Same. Gas Age 55:77-8+ Ja 17 '25; Excerpts. Am Gas J 122:56+ Ja 17 '25
Presidential address. W. Heathcote. Gas J (Lond) 165:373-7 F 13 '24
Presidential address. H. D. Madden. Gas J (Lond) 171:804-6 S 30 '25
Presidential address. J. D. Smith. Gas J (Lond) 171:667-9 S 16 '25
Profit by experience is keynote of British gas industry. A. C. Blackall. Gas Age 55: 331-2 Mr 7 '25
Program of gas development. F. W. Parsons. Gas Age 53:797-8+ Je 7 '24
Promoting sales of industrial gas. H. H. Smith. Am Gas J 122:488 Je 6 '25
Purpose of the industrial gas survey. H: O. Loebell. Gas Age 55:655+ My 2 '25; Same cond. Am Gas J 122:371-2+ My 2 '25
Scientific promotion of gas sales. A. Coe. 390p Van Nostrand '24
Selling the industrial gas idea to business. F. F. Cauley. il Gas Age 53:443-6+ Ap 5 '24; Same cond. Am Gas J 120:309-10+ Ap 5 '24
Signs of progress. il Gas Age 56:497-500+ O 10 '25
60% or 16%. H. H. Clark. Gas Age 53:897-9 Je 28 '24
Some aspects of our service. G: B. Cortelyou. Gas Age 55:865-8 Je 20 '25; Excerpts. Am Gas J 123:25+ Jl 11 '25
Some factors influencing the development of industrial gas. W. M. Hepburn. Am Gas Assn Industrial Gas sec v 6:627-36 '24; Same abr. Am Gas J 121:1006-11 O 15 '24; Discussion. Am Gas Assn Industrial gas sec v 6:636-45 '24
Some high spots in the industry. J: F. Gilchrist. Pub Serv Management 39:110-12 O '25
Summer slump. W: H. Matlack. Am Gas J 123:76 Jl 25 '25
Ways and means of getting an industrial gas load. F. F. Cauley. il Gas Age 55:905-6+ Je 27 '25
What about the coal situation? W: M. Carpenter. il chart map Gas Age 53:271-4+ Mr 8 '24
Why men fail in the gas business. G. W. Allen. Am Gas J 119:613-14 D 8 '23
Why the gas companies should secure industrial business. F. F. Cauley, G. H. Hirschfeld and C. H. Kallstedt. Gas Age 55:473-5 Ap 4 '25
Wider outlook of our industry. H. K. Hoult. Gas J (Lond) sup 4:49-50 F 25 '25

See also Gas, Natural; Gas as fuel; Gas companies; Gas cooking; Gas distribution; Gas heating; Gas lamps; Gas lighting

Advertising
Advertising. H. Wilde. Gas J (Lond) sup 3:87; Discussion. 87-8 Ap 30 '24
Advertising and its relation to merchandise sales. W: H. Seely. Am Gas Assn Commercial sec v 5:601-9 '23
Advertising and its relation to sales stimulation. F. L. Blanchard. Am Gas Assn Commercial sec v 6:591-5 '24; Same. Gas Age 54:655-6+ N 1 '24; Excerpts. Am Gas J 121: 1132+ N 1 '24
Advertising as an aid to selling gas. J: P. Lucas. Am Gas J 120:490-2 My 24 '24
Advertising "in American" is good dope. F. H. Marshall. Gas Age 54:847+ D 13 '24
Advertising in the gas industry. C. Nicol. Gas J (Lond) sup 3:137-8 Jl 30 '24
Advertising suggestions on selling gas appliances. F. V. Faulhaber. Am Gas J 122:252+ Mr 21 '25
Advertising versus fire—an inclusive analogy. C: H. Marshall. Am Gas J 123:98 Ag 1 '25
All-type gas advertisements that radiate warmth. A. A. Shields. Gas Age 56:23-4 Jl 4 '25
Am I losing by underestimating competition? J. R. Jennings. il Gas Age 55:413+ Mr 21 '25
And a little child shall lead them to good will. Gas Age 55:94 Ja 17 '25
Art of arresting attention in relation to advertising. L. Denham. Gas J (Lond) sup 4: 70 Mr 25 '25
Before and after; one way to make your advertising appropriation go farther. W. H. Emm. Gas Age 54:486 O 4 '24
"Buy your home" movement; its value to the gas company. J. W. Piatt. il Am Gas J 122: 442+ My 23 '25
Capturing the customer in land of cotton. W. H. Matlack. Am Gas J 121:1199-1200 N 22 '24
Celebrating the diamond birthday of gas in Chicago by window displays L. E. Lindsay. il Gas Age 56:535-7 O 10 '25
Common sense demands a rate raise. J. R. Jennings. Gas Age 54:339-40+ S 6 '24
Cooperative advertising. W. H. Emm. Gas Age 54:880+; 55:354 D 20 '24, Mr 7 '25
Co-operative advertising of a public utility. W. M. Mason. Gas J (Lond) 167:391-3 Jl 23 '24
Creating a market for gas. A. L. Crane. Am Gas Assn Commercial sec v 5:673-85 '23
Cutting the bunk from institutional advertising. B. J. Mullaney. Gas Age 55:918+ Je 27 '25; Same. Am Gas J 122:483-4 Je 6 '25
District co-operative advertising. N. H. Humphrys. Gas J (Lond) 168:656 D 3 '24
Economics of advertising. A. B. B. Valentine. Gas J (Lond) 167:sup150-1 Ag 27 '24
From the ashes of Adam to the lights of Laclede. W. B. Stoddard. Gas Age 55:493-4 Ap 4 '25
Gas company's advertising plan; Iroquois gas co. W. Bates. Am Gas J 122:76+ Ja 24 '25
Gas-fired laundry equipment. W. B. Stoddard. il Am Gas J 123:183-4 Ag 29 '25
Gas for summer comfort in the home. W. B. Stoddard. il Gas Age 54:163-4 Ag 2 '24
Gas salesman's attitude to advertising. W. M. Mason. Gas J (Lond) sup 4:112-13 My 27 '25
Getting a quick take-off for the gas advertisement. A. L. Ross. Gas Age 56:629-30 O 24 '25
Helping the newspaper to print real gas news. C. Lindley. Am Gas J 120:69-70 Ja 26 '24
How about broadcasting the story of gas. Gas Age 54:418+ S 20 '24
How are you going to do it? W: H. Matlack. Am Gas J 122:47-8 Ja 17 '25
How home service increases gas sales. P. D. Warren. il Am Gas J 121:701-2+ Ag 2 '24
How smaller ideas in merchandising and advertising make for success. W. E. Richardson. Am Gas J 119:548-51+ N 17 '23
Industrial gas business. F. F. Cauley. Am Gas Assn Commercial sec v 6:596-600 '24; Same. Gas Age 54:652-4 N 1 '24
Laclede lays plans for intensive industrial sales. W. H. Emm. Gas Age 52:686 D 1 '23
Local publicity. W. D. Elson. Gas J (Lond) sup 4:85-7 Ap 29 '25
Local publicity and service methods of a 50-million works. E. P. Vince. Gas J (Lond) 170:530-1 My 20 '25
Make your advertising message natural and sincere. R. S. Merrill. Gas Age 56:301+ Ag 29 '25
"Making the house a home" advertising copy. W. H. Emm. Gas Age 53:297-8 Mr 8 '24
Making the public think about it; an advertising plan for the Pacific coast gas association. Gas Age 54:431-4+ S 27 '24; Same cond. Am Gas J 121:1177-8+ N 15 '24
Minutes of the publicity and advertising section of the A.G.A. Am Gas Assn Publicity & Advertising sec v 5:849-913 '23

GAS industry—Advertising—*Continued*
National advertising makes debut in gas industry. J. R. Jennings. Gas Age 56:159-60 Ag 1 '25
Novel experiment in gas advertising. F. J. Koch. Ptd Salesmanship 45:457-63 Jl '25; Same. Gas Age 56:189-92+ Ag 8 '25
Offering prospective customers one idea at a time. A. A. Shields. Gas Age 55:853-4+ Je 13 '25
Out-of-door advertising. J: F. Weedon. il Am Gas J 122:459-60+ My 30 '25
Present position of the gas industry. Gas J (Lond) 166:308-10 Ap 30 '24
Seasonal advertising copy ties up with popular fancy. A. L. Marler. Gas Age 55:95-6 Ja 17 '25
Selling appliances featuring holiday comfort. W: B. Stoddard. il Gas Age 52:689-90 D 1 '23
Selling gas appliances. J. MacRorie. Am Gas J 122:354+ Ap 25 '25; Same. Gas Age 55: 628+ Ap 25 '25
Selling gas appliances by circularizing. F. H. Williams. Am Gas J 123:286+ O 3 '25
Successful water heater campaign. J: T. Bartlett. Am Gas J 121:614+ Jl 5 '24
Taking advantage of momentum in gas range sales. J. R. Hunter. Gas Age 55:59-60 Ja 10 '25
Telepathy in advertising. Gas J (Lond) sup 4:222-4; Discussion. 224 O 28 '25
30 years of cooperative advertising. V. Fisher. Gas Age 54:233-4 Ag 16 '24
Trade paper advertising to hotels and restaurants. J: T. Bartlett. Gas Age 53:332+ Mr 15 '24
Urges national advertising campaign for A.G.A. F. L. Blanchard. il Gas Age 56:690 N 7 '25
Using the advertising argument in selling appliances. C. B. Smith. Gas Age 54:811-12 D 6 '24
What can the headline do to the gas man's copy. A. L. Ross. Gas Age 53:408-10 Mr 29 '24
What we must advertise. F. W. Parsons. Gas Age 55:407-8+ Mr 21 '25
When the gas company puts life into small space. W. Piper. Gas Age 55:749-50 My 23 '25
When the gas company sells the architect. J. R. Jennings. Gas Age 55:754 My 23 '25
Writing advertising copy. W: H. Matlack. Am Gas J 123:197 S 5 '25

See also Gas cooking—Demonstrations

Directories

Directory of the gas industry. Gas Age 53: 3-28 sec 2 Ap 5 '24
Directory of the gas industry. Gas Age 55: 1-32 sec 2 Ap 4 '25

Exhibitions

B.C.G.A. shows Britain its gas industry. A. C. Blackall. il Gas Age 55:895-8 Je 27 '25
Belfast gas exhibition. il Gas J (Lond) 171: 734-6 S 23 '25
British Empire gas exhibit, 1924. il Gas J (Lond) 166:317-23, 453-6, 525-9, 591-3, 742-3, 818-20 Ap 30, My 14-28, Je 11-18 '24
British Empire gas exhibit, 1925. il Gas J (Lond) 170:458-60, 523-5, 589-90, 653, 726-8 My 13-Je 10 '25
British enterprise shown by Birmingham exhibition. N. H. Humphrys. Gas Age 52:657-9 N 24 '23
Chemistry and gas at the British Empire exhibition. Engineering 117:646-7, 710-11 My 16, 30 '24
Gas appliance exhibits at California industries exposition. C: W. Geiger. il Am Gas J 119:655-6+ D 22 '23
Gas industry's display at Britain's great exhibition. A. C. Blackall. il Gas Age 53:851-2+ Je 14 '24
Home economics exposition attracts thousands. C. W. McCampbell. il Gas Age 56: 267-8 Ag 22 '25
Ideal home exhibition; many suggestions at Olympia. Gas J (Lond) 169:525-6, 604-5, 668-70 Mr 4-18 '25
Impressions and lessons gathered from the National gas exhibition. R. J. Rogers. Gas J (Lond) sup 2:179-81 O 31 '23
Industrial appliance show in Worcester. J. E. Bullard. il Gas Age 56:161-2 Ag 1 '25
International gas exhibition in Paris. il plans Gas J (Lond) 166:824-8 Je 18 '24
New gas showrooms at Hull. il Gas J (Lond) 170:462-3 My 13 '25
Preliminary visit to the gas exhibit buildings at Wembley. il Gas J (Lond) 165:544-6 Mr 5 '24
Smoke abatement exhibition and a conference, Nov. 4-6. Gas J (Lond) 168:423-6 N 12 '24
What to see and where to see it at Atlantic City. Gas Age 56:523-6 O 10 '25

History

Tail that wags the dog—and keeps on wagging. J: F. Weedon. il Gas Age 55:819-20+ Je 6 '25

Merchandizing

Address of the chairman. J. E. Davies. Am Gas Assn Commercial sec v 6:509-16 '24
Art of selling industrial gas. A. B. Greenleaf. il Am Gas J 120:407-8+ My 3 '24
Art of window displays. H. E. Smith. il Am Gas J 120:587-8+ Je 28 '24
Augusta gas company vanquishes pre-election slump. W. H. Emm. Gas Age 55:23-4 Ja 3 '25
Better the window display the more sales. F. H. Williams. Am Gas J 121:771-2 Ag 23 '24
Campaign method of merchandising. R. F. Canniff. Am Gas Assn Commercial sec v 6: 527-34 '24; Same. Gas Age 54:531-4 O 11 '24; Excerpt. Am Gas J 122:72, 83-6 Ja 24 '25; Discussion. Am Gas Assn Commercial sec v 6:534-5 '24
Combatting the post holiday slump. W. B. Stoddard. il Am Gas J 121:1310+ D 27 '24
Constructive gas merchandising. C. E. Shaffner. Am Gas J 120:267-8 Mr 22 '24
Cost analysis of securing new business. P. J. Naschold. Gas Age 55:461-2 Mr 28 '25
Dealer or company. C: T. Aaron. Gas Age 53: 535-6 Ap 19 '24
Development of present and new markets. R. E. Ramsay. Am Gas Assn Commercial sec v 6:518-23; Discussion. 523-6 '24
Economics of merchandising. A. P. Post. Gas Age 55:201-2+, 239+ F 7-14 '25
Every gas employee a sales aid. J. E. Newton. Am Gas J 121:657-8+ Jl 19 '24
Eyes of the store and the minds of the people. Am Gas J 119:649-50+ D 22 '23
Few rules for success in selling gas appliances. F. H. Williams. Am Gas J 120:40 Ja 12 '24
50% increase in gas "send-out" before 1926. J. R. Jennings. Gas Age 53:137-8 F 2 '24
Gas appliance sales following a rate increase. H. J. Hoover. Gas Age 56:371+ S 12 '25
Gas appliance sales per meter contest. Am Gas Assn Commercial sec v 5:594-6 '23
Gas company—merchandiser; more effort; more sales. J: J. Quinn. Gas Age 53:197-200 F 16 '24; Excerpts. Am Gas J 120:166+ F 23 '24
Gas house tales. W: H. Matlack. Am Gas J 121:636+, 1151-2 Jl 12, N 8 '24
General sales propaganda. H. D. Madden. il Gas J (Lond) 170:737-9; Discussion. 739-41 Je 10 '25
Give service to heat users. E: D. Knapp. Gas Age 53:82-3 Ja 19 '24
Gloucester entertains the New England sales conference of the commercial section of the American gas association. J. R. Jennings. Gas Age 55:847-8+ Je 13 '25
Helping the customer to decide. E. L. Mills. Am Gas J 122:524+ Je 20 '25
How a home economics department is run. P. Eves. il Am Gas J 120:363-4+ Ap 19 '24
How and when gas sales should be conducted. R. S. Rodenhuis. Am Gas J 121:679-80 Jl 26 '24
How to get industrial gas business. E. G. DeCoriolis. Am Gas Assn Industrial Gas sec v 5:785-91; Discussion. 791-3 '23
How to plan the store. F. L. Blocki. il Gas Age 56:125-6+ Jl 25 '25

GAS industry—Merchandizing—*Continued*
Ideas for the man who sells. W: H. Matlack. diag Am Gas J 119:592-4; 120:268+, 398-9, 569-70; 121:793+, 855-6, 1264+; 122:3-4, 27-8, 71-2, 93-4, 139-40, 181, 203-4, 309-10, 393-4, 417, 441, 525-6; 123:71, 93, 114, 135-6, 658, 679 D 1 '23, Mr 22, Ap 26, Je 21, Ag 30, S 20, D 13 '24, Ja 3-10, 24-31, F 14, 28, Mr 7, Ap 11, My 9-23, Je 20, Jl 26-Ag 15, D 19-26 '25
Increasing sales of gas in the South. E. D. Brewer. Am Gas J 123:241-2+ S 19 '25
Industrial sales of gas and how increased. H: O. Loebell. il Gas Age 53:41-5 Ja 12 '24; Same. Am Gas J 120:90-4+ F 2 '24
Is anything wrong with the sales campaign idea? L. B. Michaels. Gas Age 55:751-2+ My 23 '25
January meeting of New England gas sales association. J. E. Bullard. Gas Age 55:98+ Ja 17 '25
Job ahead in selling. R. J. Canniff. Gas Age 56:581-3+ O 17 '25; Same cond. Am Gas J 123:609-10+ D 5 '25
Making gas merchandise sell. W. E. Cecil. Am Gas J 120:53-4 Ja 19 '24
Marketing utility service. P. W. Ivey. Am Gas Assn General Sessions sec v 6:158-68 '24
Merchandising and the scientific study of markets. P. White. charts Gas Age 56:87-8+ Jl 18 '25
Merchandising appliances in natural gas territory. A. W. Baker. Gas Age 53:739-40+ My 24 '24
Methods of selling. P. H. Christian. Gas J (Lond) sup 3:57 Mr 26 '24
New residents good prospects for gas appliances. F. V. Faulhaber. Am Gas J 120:79-80 Ja 26 '24
Nobody's customer. L. B. Michaels. il Gas Age 52:623-5, 653-5 N 17-24 '23
Observations on a gas sales department. E. Bailey. Gas J (Lond) sup 4:20 Ja 28 '25
Organized selling of gas. C. H. Gilbert. Gas J (Lond) sup 3:164-5; Discussion. 165 S 24 '24
Organizing the sales department. M. T. Copeland. Am Gas J 123:485+ O 24 '25
Present and future of sales campaigns. L. B. Michaels. Gas Age 55:623-4+ Ap 25 '25
Remarks and observations on salesmanship. Gavin. Gas J (Lond) sup 4:73-4 Mr 25 '25
Report of sales stimulation committee; with discussion. Am Gas Assn Commercial sec v 5:623-52 '23
Sales development and the gas business. P. S. Young. Gas Age 52:683-5 D 1 '23
Sales drive for gas appliances. C: W. Geiger. il Am Gas J 121:1268+ D 13 '24
Sales management and organization. A. S. Goldsborough. Am Gas Assn Commercial sec v 6:554-62 '24
The sales; practical aid in selling gas appliances. W: Gould. Am Gas J 123:23-4 Jl 11 '25
Salesmanship. S. Hall. Gas J (Lond) sup 2: 213-15; Discussion. 215 N 28 '23
Securing new business. P. J. Naschold. Am Gas J 122:396+ My 9 '25
Securing of new business and installation of apparatus. R. H. Hodgson. Gas J (Lond) sup 3:162-3; Discussion. 163-4 S 24 '24
Selling appliances to new residences. F. H. Williams. Am Gas J 122:268+ Mr 28 '25
Selling gas to the housewife. P. D. Warren. il Am Gas J 120:1-2+ Ja 5 '24
Selling good will at a profit. W. E. Cecil. Am Gas J 122:552+ Je 27 '25
Selling good will at a profit. H. E. Smith. Am Gas J 121:1195-6+ N 22 '24
Selling merchandise in off seasons. J. B. Dillon. Am Gas J 120:195-7 Mr 1 '24
Selling the management on display. L. E. Lindsay. Am Gas Assn Commercial sec v 6:572-6 '24
Selling through dealers. Gas Age 53:299-300 Mr 8 '24
Selling to the Finnish people at Fitchburg, Mass. J. E. Bullard. Gas Age 56:412+ S 19 '25
Setting a goal. R. O. Jasperson. Gas Age 53:169-70 F 9 '24
Stimulating post-holiday sales by special inducements. J. E. Bullard. Gas Age 54:909-10 D 27 '24
Washington's birthday appeal in gas appliance displays. E. A. Dench. Am Gas J 120:149-50 F 16 '24
What I have learned in twenty years selling gas appliances. F. H. Williams. Am Gas J 120:215+ Mr 8 '24
Youthful appeal helps sell gas appliances. F. H. Williams. Am Gas J 120:489-90 My 24 '24

See also Gas companies—Salesmen

Statistics

Gas undertakings return for 1924. Gas J (Lond) 171:333, 384-5 Ag 5-12 '25
Magnitude of the gas industry. J. B. Garner. Blast F & Steel Pl 12:484 O '24
Manufactured gas in 1923 census. Am Gas J 122:98+ Ja 31 '25
Manufactured gas industry in 1922. Am Gas J 119:686 D 29 '23

Australia

Australian gas engineer, P. C. Holmes Hunt, visiting in the United States. J. R. Jennings. il Gas Age 52:711-12+ D 8 '23
Colonial gas association, ltd. 36th annual general meeting. Gas J (Lond) 169:93-4 Ja 14 '25

France

Le centenaire de l'industrie du gaz en France et le cinquantenaire de la Société technique de l'industrie du gaz. Génie Civil 84:553-4 Je 7 '24
Centenary of gas supply in France and jubilee of the Société technique du gaz. Gas J (Lond) 166:821-3 Je 18 '24
France's important part in the early history of the gas industry. Gas J (Lond) 166:839-40 Je 18 '24
Present state of gas industry in France. Gas J (Lond) 171:275-6, 333-4, 393-4 Jl 29-Ag 12 '25

Germany

Berlin gas plants consolidated under one head. F. Messinger. Gas Age 53:794 Je 7 '24
Gas industry in Germany. Gas J (Lond) 171: 449-50 Ag 19 '25

Great Britain

Address. J. F. Bell. Gas J (Lond) 170:863-9 Je 17 '25; Excerpts. Engineer 139:656-7 Je 12 '25
B.C.G.A. 14th annual conference at Plymouth. Gas J (Lond) 172:221-4+ O 28 '25
Board of trade gas undertakings in Great Britain for the year 1923. Gas J (Lond) 167:802-4; 168:641 S 10, D 3 '24
Board of trade gas undertakings return for 1922; finance and prices. Gas J (Lond) 165: 30 Ja 2 '24
British gas industry operation conditions improving. A. C. Blackall. Gas Age 53:135-6 F 2 '24
British gas men protest against electrical favoritism. A. C. Blackall. Gas Age 56: 433-4 S 26 '25
Centenary of the British gas light company, ltd. il Gas J (Lond) 169:201-9 Ja 28 '25
Commercial gas company annual ordinary meeting. Gas J (Lond) 169:467-8 F 25 '25
Control in industrial gas business. A. J. Smith. Am Gas J 121:1307-8+ D 27 '24
Eastern counties gas managers' association; half-yearly meeting at Newark. il Gas J (Lond) 170:307-11 Ap 29 '25
European gas company, ltd. annual general meeting. Gas J (Lond) 171:177-8 Jl 15 '25
Field's analysis for 1923. Gas J (Lond) 166: 589-90 My 28 '24
Field's analysis for 1924. Gas J (Lond) 170: 657 Je 3 '25
Gas engineering in 1923. Engineer 137:50-1 Ja 11 '24

GAS industry—Great Britain—*Continued*
Gas engineering in 1924. Engineer 139:96-7 Ja 23 '25
Gas light and coke company 218th general meeting. Gas J (Lond) 169:352-4 F 11 '25
Hornsey gas company annual ordinary general meeting. Gas J (Lond) 169:471-2 F 25 '25
Industry's progress discussed by British gas engineers at annual conference, London. A. C. Blackall. Gas Age 56:111-12 Jl 25 '25
Linking local with national service. W. E. Dean. Gas J (Lond) 166:398-9; Discussion. 399 My 7 '24
London gas companies. Economist 98:464-5; 100:533-4, 1173-4 Mr 1 '24, Mr 21, Je 13 '25
Midland association of gas engineers and managers annual general meeting. Gas J (Lond) 169:671-5 Mr 18 '25
Mond scheme of maintenance with work. A. Mond. Gas J (Lond) 170:854-6 Je 17 '25
1923; a retrospect. Gas J (Lond) 164:823-31 D 26 '23
North of England gas managers' association autumn meeting. il diags plans Gas J (Lond) 172:153-66 O 21 '25
166,000,000 cu. ft. of gas used in one day in London. A. C. Blackall. Gas Age 56:147-8 Ag 1 '25
Present position of the gas industry. Gas J (Lond) 167:750-1 S 3 '24
Presidential address. J. Campbell. il diags plans Gas J (Lond) 171:602-9 S 9 '25
Presidential address. S: Tagg. Gas J (Lond) 167:87-90 Jl 2 '24
Presidential address at British commercial gas association fourteenth annual conference. J. H. Ellis. Gas J (Lond) 172:167-9 O 21 '25
Presidential address at Midland junior gas association meeting. H. Clark. Gas J (Lond) 168:351-3 N 5 '24
Presidential address at North British association of gas managers meeting. J: W. M'Lusky. Gas J (Lond) 167:805-12 S 10 '24
Presidential address at Scottish gas salesmen's circle meeting. J. Jamieson. Gas J (Lond) sup 2:189-92 O 31 '23
Progress of the gas industry in England in 1924. A. C. Blackall. Gas Age 55:127 Ja 24 '25
Quality and composition of town gas. H. E. Bloor. Gas J (Lond) 164:645-51 D 5 '23
Society of British gas industries annual general meeting. Gas J (Lond) 166:667-74 Je 4 '24
Society of British gas industries annual general meeting. Gas J (Lond) 170:593-601 My 27 '25
Society of British gas industries; autumn general meeting. Gas J (Lond) 168:492-4 N 19 '24
Some remarks from one who has had 64 years of experience. H. E. Jones. Gas Age 55:615-16 Ap 25 '25
South Metropolitan gas company ordinary general meeting. Gas J (Lond) 169:412-14 F 18 '25
South suburban gas company annual ordinary meeting. Gas J (Lond) 169:415-16 F 18 '25
Southern association of gas engineers and managers annual general meeting. Gas J (Lond) 170:37-44 Ap 1 '25
See also British commercial gas association; Imperial continental gas association; National gas council

Hawaiian Islands
Doing business in Hilo. il Am Gas J 123:129-30+ Ag 15 '25
Gas company in sunny Hawaii. W. B. Stoddard. Am Gas J 120:475-6+ My 24 '24
Gas in the sugar camps of Hilo. W: B. Stoddard. il Gas Age 53:773-4+ My 31 '24

Honolulu
Selling gas in Honolulu to a polyglot people. W. B. Stoddard. Gas Age 53:336+ Mr 15 '24

Ireland
Irish gas-works problems. T. J. Reid. Gas J (Lond) 171:740-1; Discussion. 741 S 23 '25
Position of the gas industry in Ireland—1924. T. J. Reid. Gas J (Lond) 167:647-9 Ag 20 '24; Discussion. 167:699-700 Ag 27 '24

Italy
Selling the gas idea in Italy. A. J. Smith. Gas Age 53:884+ Je 21 '24

Japan
Large growth of gas industry in Japan. Gas Age 53:540 Ap 19 '24

Michigan
Future of gas is bright; a review of the year's progress in Michigan. G: H. Waring. Am Gas J 121:831+ S 13 '24

New York
See also Consolidated gas company, New York

New Zealand
Gas industry in New Zealand. J. Lowe. Gas J (Lond) 170:185 Ap 15 '25

Pacific coast
Gas progress as seen on the Pacific coast. H. R. Basford. Gas Age 54:491-4+ O 11 '24

Porto Rico
Porto Rico is learning to use gas appliances. J. D. Taylor. il Gas Age 55:725-6 My 16 '25

Scotland
Current topics; address at Scottish junior gas association meeting. E. W. Smith. Gas J (Lond) 170:315-18 Ap 29 '25
Salient points dominating the gas industry during the life of the Scottish junior gas association. W. R. Herring. Gas J (Lond) 168:232-4 O 22 '24
Town gas; remarks on manufacture and supply in Scotland. W. B. McLusky. Gas J (Lond) 172:100-3 O 14 '25

Southern states
Building business in the progressive South. E. D. Brewer. Gas Age 56:223-4+ Ag 15 '25

Spain
Gas appliances for Spain. A. C. Blackall. Gas Age 53:13-14 Ja 5 '24

United States
Co-operation between gas and electricity works. R. Blomquist. Gas J (Lond) 171:388-9 Ag 12 '25; Same. Gas Age 56:349-50+ S 12 '25
Demand for gas taxes capacity to serve. Pub Serv Management 37:138-9 N '24
Gas—a caged wizard. B. L. Read. Am Gas J 120:311+ Ap 5 '24
Gas in America; its progress in the past and its expectations for the future. I. Ginsberg. Am Gas J 123:299-330 O 10 '25
Past, present or future? J. R. Jennings. Gas Age 54:489-90 O 11 '24
Story of gas. I. Ginsberg. il Am Gas J 121: 921-45 O 11 '24

GAS industry and plumbing trade
Gas company and plumbing dealer co-operation. Am Gas Assn Commercial sec v 5: 717-19; Discussion. 719-22 '23
Plumbers sell gas ranges. E. F. Glore. Dom Eng 106:93-4 Ja 5 '24
Road to profit on gas appliances opening up. Sanitary & Heat Eng 101:205+ Ap 4 '24

GAS institute of New Zealand
Inaugural meeting, Wellington (N.Z.), Feb. 26-27. Gas J (Lond) 166:386 My 7 '24

GAS laboratories
Central research laboratories of Radiation Limited. il Gas J (Lond) 172:31-5 O 7 '25
Industrial gas laboratory in San Francisco. C: W. Geiger. il Management & Adm 7:177-8 F '24
Safeguarding the public; the New York consolidated gas company's testing laboratory. H. O. Andrew. il Gas Age 56:503-5 O 10 '25

GAS lamps
Elementary treatise on gas lighting. Gas J (Lond) sup 2:225-7; sup 3:6-7, 38-42; sup 4:102-3 D 26 '23-F 27 '24, My 27 '25
Gas illumination. J. W. Lofts. Gas J (Lond) sup 3:248-50 D 31 '24

See also Gas mantles

GAS leakage
Gas-leak finder; gasoscope. il Am Gas J 123: 481 O 17 '25
Gas leakages in the Rhondda. J. Wood. Gas J (Lond) 172:170-2 O 21 '25
Methods adopted to deal with leakage in colliery districts. D. Muir. Gas J (Lond) 170: 742-3 Je 10 '25
Preventing leaks through flues of retort furnaces. G. Offe. Am Gas J 123:240+ S 19 '25; Same. Gas Age 56:803-4 D 5 '25; Abstract. Gas J (Lond) 171:544 S 2 '25
Unaccounted-for gas among Pacific coast companies. Gas Age 54:394-6 S 20 '24

See also Gas losses

GAS light and coke company
Report for the year ended Dec. 31. Gas J (Lond) 165:254-5 Ja 30 '24
217th ordinary general meeting. Gas J (Lond) 165:321-3 F 6 '24

GAS lighting
Catechism of central station gas engineering in the United States. Am Gas J 121:799-802, 821-4, 1269-72 Ag 30-S 6, D 13 '24
Diffused lighting systems. Gas J (Lond) 169: 274 F 4 '25
Domestic uses of coal gas. A. Forshaw. Gas J (Lond) 171:736-7; Discussion. 739-40 S 23 '25
Electrical competition. R. J. Williams. Gas J (Lond) sup 3:89-90 Ap 30 '24
Elementary treatise on gas lighting. Gas J (Lond) sup 2:5-6, 28-9, 63-4, 80-1, 100-1, 120-1, 144-5, 167-9, 184-5, 206-7, 225-7; sup 3:6-7, 38-42, 51-4, 73-5, 113-15+, 131-3, 151-2, 165-7, 192-3, 208-9, 233-5; sup 4:7-9, 34-5, 57-8, 83-4, 102-3, 126-7, 168-70, 182-3, 200-1, 248, 266-7 Ja 31 '23-Ap 30, Je 25 '24-Je 24, Ag 26-O 14, N 25-D 9 '25 (to be cont)
Gas as a lighting agent. D. Parson. Gas J (Lond) sup 3:153-4 Ag 27 '24
Gas illumination. J. W. Lofts. Gas J (Lond) sup 3:248-50 D 31 '24
Gas lighting. J. W. Lofts. Gas J (Lond) sup 2:209-12; Discussion. 212-13 N 28 '23
Gas lighting. G. Sawyer. Gas J (Lond) sup 4:40-1 F 25 '25
Gas lighting at the Exhibition. G. L. Jennings. Gas J (Lond) 167:650-1 Ag 20 '24; Abstract. Illum Engr 17:132-3; Discussion. 133 Ag '24
Gas lighting in the grounds of the British Empire exhibition. il Gas J (Lond) 166:323-5 Ap 30 '24
Gas lighting in the textile industry. E. L. Oughton. il diags Illum Engr 17:66-75; Discussion. 75-8 My '24; Abstract. Gas J (Lond) 166:456-7 My 14 '24
High-pressure lighting in Paris. G. Reclus. il map Gas J (Lond) 167:379-82 Jl 23 '24
Illumination by gas. J. S. G. Thomas and D. Chandler. Gas J (Lond) 167:317-19; sup 3: 128-9 Jl 16, 30 '24; Abstract. Illum Engr 17:110-11 Je '24
Lighting fittings for the coming season. il Gas J (Lond) sup 4:189-94 S 30 '25
Lighting of New Street station, L. M. & S. railway, Birmingham. il plan Gas J (Lond) 168:416-18 N 12 '24
Lighting of railway stations. J. F. Caine and E. A. Marx. Gas J (Lond) 165:767 Mr 26 '24
Lighting the streets by gas. Gas J (Lond) sup 3:196 O 22 '24
Making the rounds of lights by motorcycle. F. J. Koch. il Gas Age 55:609-10+ Ap 25 '25
Modern gas lighting. Gas J (Lond) sup 2:192-4 O 31 '23
Notes on gas lighting. W. B. Payne. Gas J (Lond) sup 4:108-9 My 27 '25
Presidential address. W. Heathcote. Gas J (Lond) 165:373-5 F 13 '24
Presidential address. S. B. Langlands. Gas J (Lond) 165:430-1; Discussion. 431-2 F 20 '24
Public lighting by gas. J. S. Thomas. Gas J (Lond) 171:749-52; Discussion. 752-3 S 23 '25
Retention and extension of the lighting load. Gas J (Lond) sup 2:187-8 O 31 '23
Street lighting. C. S. Shapley. il diags Gas J (Lond) 171:743-8 S 23 '25
Thirteenth report of the research sub-committee of the gas investigation committee of the Institution of gas engineers. il diags Gas J (Lond) 170:879-91 Je 17 '25
Undeveloped lighting opportunity. J. E. Bullard. Am Gas J 121:1287-8 D 20 '24
What makes your holder go down at night? J. B. Jones. Am Gas Assn Commercial sec v 5:659-62; Discussion. 662-5 '23
Where, oh where has our lighting load gone? S. B. Palmer. il Gas Age 55:504+ Ap 4 '25
Year's progress in illumination, 1924-1925. Illum Eng Soc 20:682-7 S '25

See also Gas lamps; Gas mantles; Gas meters

Control
Distance control. A. C. Prankard. Gas J (Lond) 166:116-18 Ap 9 '24
London clock controller. il Gas J (Lond) 169: 140-1 Ja 21 '25

GAS lighting, Incandescent
Le rôle de l'oxyde de carbone dans l'éclairage par incandescence. Chappuis. diags Génie Civil 85:93-5 Jl 26 '24; Abstract. Gas J (Lond) 167:938-9 S 24 '24

See also Gas mantles

GAS losses
Gas losses; their classification, means of prevention and relation between station and consumer meter reading. A. Wenger. Am Gas J 122:523+ Je 20 '25
Reducing unaccounted-for gas. J. Dickson. Gas J (Lond) 171:612-13; Discussion. 613-14 S 9 '25
Unaccounted-for gas; discussion at Midland junior gas association meeting. Gas J (Lond) 170:314-15 Ap 29 '25

See also Gas leakage

GAS mains. See Gas pipes

GAS mantles
Catalytic effects of the oxides of cerium and thorium, and their bearing on the theory of the Welsbach mantle. R: L. Swan. diag Chem Soc J 125:780-5 Ap '24
Proposed protection for gas mantles. Chem Age (Lond) 12:501, 529, 581-2 My 23-30, Je 13 '25

GAS manufacture
Address at Yorkshire junior gas association. E. Gillett. Gas J (Lond) 168:577-9 N 26 '24
American gas and coke industry. F. S. Townend. Gas J (Lond) 166:233-5 Ap 23 '24
Application of oxygen in water gas machines. A. Frey. il diag Gas Age 56:613-16+ O 24 '25
Back run method of operation. O. H. Smith. Am Gas Assn Technical sec v 6:806-8 '24; Same. Am Gas J 121:976-7 O 14 '24; Discussion. Am Gas Assn Technical sec v 6:899-902 '24
Backrun method of water gas set operation. F. W. Steere. il diag Gas Age 53:861-5 Je 21 '24
Backrun process tests and results at Moline, Ill. H. A. Kleinman. diag Gas Age 53:597-600+ My 3 '24
Backrun system at Worcester. E: H. Bauer. Gas Age 53:191-4+ F 16 '24; Same abr. Am Gas J 120:177-80 F 23 '24
Bituminous coal as a generator fuel. H. S. Parker. Am Gas J 123:217-18 S 12 '25; Same. Gas Age 55:899-900 Je 27 '25
Bituminous coal as generator fuel. G. H. Smith. il Am Gas J 122:503-4+ Je 13 '25
Carbonizing in continuous-intermittent verticals. F: Shewring. il Gas J (Lond) 168: 653-5; Discussion. 655-6 D 3 '24

GAS manufacture—*Continued*
Catechism of central station gas engineering in the United States. Am Gas J 120:11-14, 35-8, 59-62, 75-8, 105-8, 125-8, 145-8, 171-4, 203-6, 225-8, 247-50, 273-6, 295-8, 319-22, 347-50, 371-4, 393-6, 415-18, 439-42, 463-6, 485-8, 507-10, 531-4, 553-6, 575-8, 595-8; 121:619-22, 641-4, 663-6, 687-90, 709-12, 731-4, 755-8, 777-80, 799-803, 821-4 Ja 5-S 6 '24
Chemist on works practice. R. Sturrock. Gas J (Lond) 165:148-9, 206-7 Ja 16-23 '24
Chrisman down run process. L. W. Seltzer. chart Gas Age 55:153-4 Ja 31 '25
Coal-coke mixture for generator fuel. J. M. Williamson. Am Gas J 121:769-70+ Ag 23 '24
Coke oven plants in medium sized gas works. H. McNair. Gas Age 56:107-9+ Jl 25 '25
Coke ovens in a Canadian gas works. J. Stephenson. il diag Gas Age 56:563-6+ O 17 '25
Combating corrosion in gas manufacture. flow sheets Chem & Met Eng 31:47-50 Jl 14 '24
Conveying and quenching of coke in gas works. L. Rodde. diags Cassier's Ind Management 11:421-2, 448-50 S-O '24
Cooling gas and the tar output. M. Binder and E. Wagner. diag Am Gas J 122:331+ Ap 18 '25
Current problems. E. W. Smith. Gas J (Lond) 165:560-2 Mr 5 '24
Describing the Glatz continuous carbonization process. Gas Age 53:389 Mr 29 '24
Eastern bituminous gas coal as water gas fuel. G: H. Smith. il Gas Age 54:3-6+ Jl 5 '24
Economics of gas production on the thermal basis. G: Evetts. Gas J (Lond) 170:943-52 Je 17 '25; Same cond. Engineering 119:815-18 Je 26 '25; Discussion. Gas J (Lond) 170:952-5 Je 17 '25
Economy of the back run device. Am Gas J 120:67-8+ Ja 26 '24
L'enrichissement du gaz de gazogène par insufflation d'air chaud chargé de vapeur. Génie Civil 83:600-1 D 15 '23
Enrichment of coal gas by the injection of oil into the retorts during carbonisation; abstracts. Engineer 140:442 O 23 '25; Gas J (Lond) 172:37-8 O 7 '25; Am Gas J 123: 675-6+ D 26 '25
Die entwicklung der gaserzeugungsräume, ihr einfluss auf die erzeugnisse und die wirtschaftlichkeit des betriebes. B. Ludwig. diags Zeit Ver Deutsch Ing 69:523-30 Ap 25 '25
L'évolution de la fabrication du gaz de ville. A. Grebel. Génie Civil 87:245-9 S 19 '25
Flexible operation a feature at Battle Creek. il Gas Age 54:349-52 S 13 '24
Fourteenth report of the research sub-committee of the gas investigation committee; the experimental gas plant at Leeds university. il diags plans Gas J (Lond) 170: 898-910; Discussion. 910 Je 17 '25
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 121:851-2, 866-9 S 20 '24
Gas from fuel oil; how it is manufactured. J. A. Harritt. il Am Gas J 123:193-4+ S 5 '25
Gas industry's challenge to the chemical engineer. W. M. Russell. Chem & Met Eng 32: 623 Jl '25
Gas making from a high volatile smoky coal. W. E. Giles and F. C. Vilbrandt. Am Gas J 121:877+ S 27 '24
Gas producer methods in carbonizing coal; the Maclaurin process. C. H. S. Tupholme. diag Chem & Met Eng 29:1138-40 D 24 '23; Same cond. Gas Age 53:37-9 Ja 12 '24
Gas producer theory and practice. A. B. Huyck. Blast F & Steel Pl 12:542-5; 13: 90-2 D '24, F '25
Gas-works practice. G. E. Currier. Gas J (Lond) 169:212-14 Ja 28 '25
Gasification of low value fuels. W. Freund. diag Am Gas J 122:25-6+ Ja 10 '25
Gaz de mélange pour usines à gaz. G. Vigreux. Chimie & Ind 11:1096 Je '24
Gaz et cokes. A. Grebel and H. Bouron. 700p Dunod, Paris '24; Review. W. B. Davidson. Gas J (Lond) 167:875 S 17 '24
Heating vertical retorts with coal gas. F. Elcock. Am Gas J 123:68-9 Jl 25 '25; Same. Gas Age 56:69-70 Jl 18 '25; Same. Gas J (Lond) 171:331-2 Ag 5 '25
Laboratory routine and the duties of a chemist in a medium-sized gas-works. J. W. Boyle. il Gas J (Lond) 169:338-9 F 11 '25
Lignite for gas making. Gas J (Lond) 171: 491 Ag 26 '25
Low-temperature fuel treatment in gas-works. N. E. Rambush. il diags plan Gas J (Lond) 165:768-72 Mr 26 '24
Making gas in vertical retorts. M. H. Frank. Am Gas J 122:548+ Je 27 '25
Making gas with coke breeze. Am Gas J 123: 26+ Jl 11 '25
Manufacture of gas with introduction of steam. Am Gas J 122:273-4 Mr 28 '25
Manufactured gas apparatus developments in Europe. C. H. S. Tupholme. diags Gas Age 56:461-2 O 3 '25
Modification of water gas sets for use of heavy fuel oil. W. D. Stewart. diag Am Gas Assn Technical sec v 6:813-15 '24; Same. Gas Age 54:703-4 N 15 '24
Oil gas plant at New Bedford. R. Lindsay and L. M. Pease. il Gas Age 55:297-300+ F 28 '25; Excerpts. Am Gas J 122:178-80+ F 28 '25
Operating practice and results at Glasgow. J: W. M'Lusky. Gas Age 54:735-6 N 22 '24
Operation of a modern gas works; gas and coke as fuels. K. L. Dawson. Can Chem & Met 7:274-7 N '23
Les procédés modernes de l'industrie du gaz. R. Masse and A. Baril. 2v Masson & c^ie, Paris '23
Production of different grades of gas. A. Parker. Gas J (Lond) 167:816-21 S 10 '24
Production of gas in the generator. E. Terres and J. Schierenbeck. diags Am Gas J 121: 1285-6+ D 20 '24
XLVIIe Congrès de la société technique de l'industrie du gaz en France (Congrès international, Paris, 24-28 juin 1924). diags Génie Civil 85:39-43, 65-71, 93-6 Jl 12-26 '24; Abstract. Gas J (Lond) 167:748-9, 821-2, 880, 938-9 S 3-24 '24
Random notes on works topics. G. E. Anderson. Gas J (Lond) 168:419-22 N 12 '24
Recent developments in the artificial gas industry. F. W. Sperr, jr. il diags W Soc E J 29:327-38 Ag '24
Recent developments of gas manufacture in Great Britain. T: Goulden. Gas J (Lond) 167:327-30 Jl 16 '24; Same cond. Gas Age 54: 213-17 Ag 16 '24
Record of plant operating results. W. D. Stewart. Am Gas Assn Technical sec v 6: 1106-13 '24
Report of committee on condensing and scrubbing. Am Gas Assn Technical sec v 6:1063-76 '24
Report of the committee on fundamentals of condensing and scrubbing. Am Gas Assn Technical sec v 5:1126-42 '23
Report of the operators' section. Am Gas Assn Technical sec v 5:941-7 '23
Results of low temperature carbonization in Scottish plant; Maclaurin process. C. H. S. Tupholme. Chem & Met Eng 30:397 Mr 10 '24; Same. Gas Age 53:390 Mr 29 '24
Scott-Moncrieff smokeless fuel process. Gas J (Lond) 165:787-8 Mr 26 '24
Selection, preparation and carbonization of coal and preparation of coke. A. W. Grant, jr. Am Gas Assn Technical sec v 6:957-70 '24; Same, without table. Gas Age 54:583-8 O 25 '24; Same cond. Am Gas J 121:1038-40 O 16 '24
Small by-product oven coal gas plants. H. J. Rose. flow sheet il diag map Gas Age 56:5-8 Jl 4 '25
Small-size coke ovens for city gas. il Chem & Met Eng 32:109-11 Ja 19 '25
Some interesting angles to the condensing and scrubbing of manufactured gas. F. W. Steere. flow sheet Can Chem & Met 9:29-32 F '25

GAS manufacture—*Continued*
Study of the destructive distillation of coal. E. V. Evans. Gas J (Lond) 165:483-8, 550-9, 629-34 F 27-Mr 12 '24; Abstracts. Soc Chem Ind J (Chem & Ind) 43:248-9, 270-1, 307-8 Mr 7-21 '24; Chem Age (Lond) 10:218, 241, 268 Mr 1-15 '24
Superheated steam and air blast in water gas manufacture. W: H. Gartley. diag Am Gas J 121:736-8 Ag 9 '24; Same. Gas Age 53:521-2+ Ap 19 '24
Tests on run-of-mine versus three-quarters inch coal for carbonization. F. D. Lohr and A. M. Beebee. Am Gas Assn Technical sec v 6:1084-90 '24; Excerpts. Am Gas J 121: 1075-7 O 17 '24
Thermal efficiency factor in gas manufacture. E: Crowther. Gas J (Lond) 164:326-9 O 31 '23
Town gas manufacture. R. Staley. 108p Pitman '22
Use of bituminous coal as generator fuel. L. L. Gilliland. Gas Age 55:641-2+ My 2 '25
Use of bituminous coal as generator fuel in plants of the United gas improvement co. H. K. Seeley. Am Gas Assn Technical sec v 6:777-84 '24
Use of earthy crude lignite for gas making. K. Bunte. diag Am Gas J 121:1107-8+ O 25 '24
Use of Illinois coal with the pier process. M. P. Novak. diags Gas Age 55:441-4 Mr 28 '25
L'usine de gazéification de la tourbe et la centrale thermo-électrique de Torre del Lago (Italie). G. Pasella. diag Génie Civil 86:562-3 Je 6 '25
Die vergasung von rohbraunkohlen. A. Loschge. diags Zeit Ver Deutsch Ing 69: 1-8 Ja 3 '25
Waste-heat boilers and vertical retort installations; twelfth report of the research subcommittee of the Gas investigation committee. diags Gas J (Lond) 167:106-24; Discussion. 124-6 Jl 2 '24
Water gas from soft coal. L. J. Willien. Am Gas J 123:505-6+ O 31 '25
When can city gas be used for domestic and industrial heating? D. J. Demorest. il diag Chem & Met Eng 32:233-6 F 9 '25
Wirtschaftsfragen der entgasung und vergasung. Nedden. Zeit Ver Deutsch Ing 69:521-2 Ap 25 '25
Working of the Glover-West vertical retorts at Foleshill gas-works. C: F. Tooby. Gas J (Lond) 168:715-18; Discussion. 718-19 D 10 '24

See also Coal distillation; Coke—Gasification in steam; Coke-oven gas; Gas—Standards; Gas, Water; Gas companies; Gas power plants; Gas producers; Gas retorts; Gas testing; Gas works; Tar

By-products

Action of benzol wash oils on lead. A. Schneider and E. Jenniger. Am Gas J 120:51-2 Ja 19 '24
Activated carbon. V. F. Gloag. Gas J (Lond) 165:708 Mr 19 '24
Activated carbon for recovering benzene from gas. M. Steding. diags Am Gas J 121:611-12+ Jl 5 '24
Cheaper power; suggested combination of gas and electricity production. W. D. Wylde. Elec R (Lond) 97:287-8 Ag 21 '25
Le débenzolage du gaz. A. Grebel. il diag Génie Civil 87:37-43, 53-7 Jl 11-18 '25
Le débenzolage du gaz: abstract. A. Mailhe. Chimie & Ind 11:493-5 Mr '24
Effluents from ammonia plants and their disposal. T. L: Bailey. bibliog Soc Chem Ind J (Chem & Ind) 44:835-45 Ag 21 '25; Abstract, with discussion. Gas J (Lond) 171: 385-6 Ag 12 '25
La fabrication de certains sous-produits de la distillation de la houille, à l'usine de Gennevilliers. Baril. diags Génie Civil 85:69 Jl 19 '24
Handling ammonia in a small gas works. diag Am Gas J 123:138+ Ag 15 '25
Liquid carbonization products as sources of power. W. G. Adam. Gas Age 54:151-2+ Ag 2 '24
Operation efficiency measurement in coal gas works. C. H. Dahl. Gas Age 53:219-21 F 23 '24
Presidential address at North British association of gas managers meeting. J: W. M'Lusky. Gas J (Lond) 167:805-12 S 10 '24
Production, sale and consumption of by-product ammonia. H. A. Curtis. Gas Age 56:455-6+ O 3 '25; Same. Chemicals 24: 11-12 O 26 '25
Recovery of phenol from effluents. diags Gas J (Lond) 170:730-1 Je 10 '25
Report of the committee on waste disposal from gas plants. Am Gas Assn Technical sec v 5:1239-43 '23
Review of some chemical plant problems. P. Parrish. Chem Age (Lond) 11:208-9 Ag 30 '24; Discussion. 11:231-2, 253-4 S 6-13 '24
Treatment of effluent spent liquors from the distillation of ammoniacal liquor. T. L: Bailey. Gas J (Lond) 167:324-5, 451-2, 586-7; 171:282-5 Jl 16, 30, Ag 13 '24, Jl 29 '25; Abstract. Chem Age (Lond) 11:94 Jl 26 '24
Using the waste heat in coke. T. Sington. Am Gas J 119:633+ D 15 '23

See also Alcohol—Manufacture; Ammonia—Manufacture; Ammonium sulfate; Benzene—Manufacture; Coal tar; Coke; Potassium ferrocyanide; Tar

Complete gasification process

Carbonizing coal with regenerated heat. C. H. S. Tupholme. diag Chem & Met Eng 31: 388-9 S 8 '24
Cast-iron retorts for low-temperature carbonization; Tozer process. C. H. S. Tupholme. diags Chem & Met Eng 30:471-3 Mr 24 '24
Complete gasification of coal. A. M'Donald. Gas J (Lond) 166:845-6; Discussion. 846-7 Je 18 '24
Complete gasification of coal. H. Strache. Gas J (Lond) 167:801 S 10 '24
Complete gasification of coal for town gas supply. M. W. Travers. Gas J (Lond) 169: 459-60 F 25 '25
Complete gasification—the Tully method. J. Wilson. Gas J (Lond) 169:217-18; Discussion. 218-19 Ja 28 '25
Complete gasification using local northwestern coal. W. D. Wilcox. il Gas Age 52:705-7 D 8 '23
Critical study of the published results of tests of water gas plant. M. W. Travers. Gas J (Lond) 168:510-13, 580-1 N 19-26 '24; Same. Soc Chem Ind J 43:355-61 D 19 '24; Abstract. Chem Age (Lond) 11:467 N 8 '24; Discussion. Gas J (Lond) 168:581-2, 663, 731, 784 N 26-D 17 '24; Chem Age (Lond) 11:467-8, 550 N 8, 29 '24
Further experiences in complete gasification. F. H. Robinson. il diags Gas J (Lond) 167: 927-31 S 24 '24
Looking to the future; the use of bituminous coal as a water gas generator fuel. W. D. Wilcox. plan Gas Age 56:141-2+ Ag 1 '25
Possibilities of future carbonization; use of oxygen. H. B. Knowles. Gas J (Lond) 166: 183-4 Ap 16 '24
Proposed process for complete gasification of coal by the use of oxygen. L. J. Willien. Am Gas Assn Technical sec v 5:969-74; Discussion. 1047-8 '23
Prospects of complete gasification of coal on the small scale. N. H. Humphrys. Gas J (Lond) 167:516-17 Ag 6 '24
Regenerative coal gasification system at Aylesbury. A. G. Lane. il diags Gas J (Lond) 167:149-53 Jl 2 '24; Same abr. Gas Age 54:177-80+ Ag 9 '24; Discussion. Gas J (Lond) 167:154-61 Jl 2 '24
Strache double gas process for complete gasification. E. Blau. il diag Gas Age 53:129-30+ F 2 '24
Tully gas in Ontario. W: A. Harden. Gas Age 54:292 Ag 30 '24

Bibliography

Bibliography of complete gasification process. Am Gas Assn Technical sec v 5:968-9 '23

GAS manufacture—*Continued*

Costs

Five years' operation of a vertical retort gas plant. M. H. Frank. il Gas Age 54: 397-400 S 20 '24

History

History of the gas process. D: Brownlie. Soc Chem Ind J (Chem & Ind) 43:601-2 Je 6 '24

Naphthalene problem

Benzole extraction and naphthalene; solubility and vapour pressure of the naphthalene. K. Bunte and H. Pippig. diag Gas J (Lond) 165:203-4, 259-60 Ja 23-30 '24

British methods of naphthalene removal. C. H. S. Tupholme. diags Gas Age 54:707-9 N 15 '24

Catechism of central station gas engineering in the United States. Am Gas J 120:349-50 Ap 12 '24

Naphthalene. H. P. Lupton. Gas J (Lond) 165: 262-5 Ja 30 '24; Abstract. Gas Age 53:866 Je 21 '24

Naphthalene formation and removal. Am Gas J 121:1323-4 D 27 '24

Naphthalene: its deposition from coal gas. W. I. Ineson. Gas J (Lond) 164:835-8 D 26 '23

Recent experiences with extraction of naphthalene, corrosion of mains, and caking of sulphate of ammonia. B. Richardson. Gas J (Lond) 164:515-16 N 21 '23

Removal of naphthalene from gas by oil scrubbing. R. D. Pike and G: H. West. il diag Ind & Eng Chem 16:253-7 Mr '24; Same. Gas Age 53:385-9 Mr 29 '24

Patents

Gas from powdered coal. diag Am Gas J 121: 869 S 20 '24

Method of producing gas high in carbon monoxide and hydrogen. Gas Age 54:118 Jl 26 '24

Process patented for manufacturing gas from pulverized coal and steam in a coil. Gas Age 56:144 Ag 1 '25

GAS masks

Breathing apparatus (rescue and protective). 36p U.S. Bur. of construction and repair, Washington '25

Gas masks for chemical plants. Nat Safety N 9:41 Ap '24

Gas masks for gasoline and petroleum vapors. S. H. Katz and J. J. Bloomfield. diags U S Bur Mines Tech Pa 348:1-37, pl 1-8 '24

Hazard of unsafe types of gas masks. S. H. Katz. bibliog U S Bur Mines Rep of Invest 2664:1-5 Mr '25 (typew); Same, without bibliog. Safety Eng 50:81-4 Ag '25

Respirators, gas masks, hose masks, and breathing apparatus. il Nat Safety N 11:43-50 Ja '25

Uses of all purpose canister gas mask at sea. L. M. McBride. il diag Nat Safety N 8:27-8 N '23

GAS measurement

Measurement of power gas; abstract. F. Johnstone-Taylor. diag Mech Eng 46:151 Mr '24

See also Gas meters

GAS meters

Association of statutory inspectors of gas meters annual general meeting. Gas J (Lond) 170:1030-1 Je 24 '25

Carbon dioxide and gas-meters. W. Leybold. Gas J (Lond) 166:598 My 28 '24

Care and maintenance of consumers' gas meters. T. P. Walker. Gas Age 53:831-4 Je 14 '24

Catechism of central station gas engineering in the United States. Am Gas J 121:1161-2, 1183-6, 1205-8, 1227-8 N 8-29 '24

Causes for meters becoming very slow, very fast or D.R. Am Gas Assn Technical sec v 6:1283-7 '24

Compteur Thomas pour la mesure des gros débits gazeux. H. Guérin. diags Génie Civil 85:68-9 Jl 19 '24

Describing the operation and application of the gas demand meter. il Gas Age 54:674 N 8 '24

Economics of appliances fixed with slot meters. Gas J (Lond) 168:348 N 5 '24

Gas at an industrial exposition; the accuracy and reading of a meter explained. C: W. Geiger. Am Gas J 122:30+ Ja 10 '25

Gas losses; their classification, means of prevention and relation between station and consumer meter reading. A. Wenger. Am Gas J 122:523+ Je 20 '25

Gas meter. C: Leach. Am Gas J 121:759-60 Ag 16 '24

Gas meters. W. Hulme. Gas J (Lond) sup 4: 154-5; Discussion. 155-6 Jl 29 '25

Gas meters, their construction, use, fixing, inspection, and maintenance. A. T. Gilbert. 189p C. Lockwood and son, London '25

Gas meters; their handling, care and installation. F. W. Sargent. Am Gas J 122:308+ Ap 11 '25

Hourly demand registering meter attachment. H. C. Deffenbaugh. il diags charts Gas Age 53:345-8 Mr 22 '24

The meter—a record of 80 years' satisfaction. C: Leach. Gas Age 54:671-2 N 8 '24

Metering of gas for industrial consumers. R. L. Manier. Gas Age 55:404+ Mr 21 '25; Same abr. Am Gas J 123:92 Ag 1 '25

Meters, and complaints appertaining thereto. T. B. Armitage. Gas J (Lond) sup 3:139-40 Jl 30 '24

Nouveau compteur à gaz "Sigma", à cloches oscillantes et à huile. G. Chamon. diags Génie Civil 85:67-8 Jl 19 '24; Abstract. Gas J (Lond) 167:880 S 17 '24

Ranelagh meter works. Gas J (Lond) 165:145-6 Ja 16 '24

Regarding the gas demand meter situation. H. C. Deffenbaugh. Gas Age 54:901-2 D 27 '24

Report on meter handling and installation. W. D. Dickey. il diag Gas Age 56:247-50 Ag 22 '25

Romance of the gas-meter. G. W. Kay. Gas J (Lond) 166:913-14 Je 25 '24

Should a concerted effort be made in the gas industry to replace the present meter dials with straight-reading meter dials? Am Gas Assn Technical sec v 6:1310-12 '24

Teaching the young to read their gas meters. il Gas Age 56:672 N 7 '25

Thomas gas meter. il diag Engineering 118: 182-3 Ag 1 '24

Thomas Glover's multimeter. il Gas J (Lond) 166:524 My 21 '24

Unaccounted-for gas; discussion at Midland junior gas association meeting. Gas J (Lond) 170:314-15 Ap 29 '25

When, and under what conditions should demand-limiting meters or devices be used? Am Gas Assn Technical sec v 6:1209-11 '24

See also Gas flow

Gummy deposits

Deposits in gas pipes and meters. Am Gas J 119:530-1+ N 10 '23

Gummy deposits in gas meters—causes and prevention. R. L. Brown. diags Am Gas Assn Technical sec v 6:1353-1406 [bibliog. p. 1406] '24; Excerpts. Am Gas J 121:1012-15 O 15 '24; Discussion. Am Gas Assn Technical sec v 6:1407-11 '24

Influence of operating practice on composition of carbureted water-gas light oil. R. L. Brown and H. G. Berger. Ind & Eng Chem 17:168-74 F '25

Light oil composition and meter deposits. R. L. Brown, E. F. Pohlman and H. G. Berger. bibliog diag Gas Age 52:645-8 N 24 '23

Polymerization and oxidation of indene in the vapor phase. R. L. Brown. diag Ind & Eng Chem 17:920-4 S '25

Report of the committee on deposits in gas pipes and meters. Am Gas Assn Technical sec v 5:1177-85; Discussion. 1185-9 '23

Lubrication

Lubrication of gas-meters. il diag Gas J (Lond) 171:170 Jl 15 '25

GAS meters—*Continued*

Repair

Meter shop practice. Am Gas Assn Technical sec v 6:1275 '24

Straight-line production in a meter repair shop. il Management & Adm 8:171-2 Ag '24

Standards

Report of the committee on standardization of capacity of consumers' meters. Am Gas Assn Technical sec v 5:1050-3 '23

Report of the committee on standardization of capacity of consumers' meters. Am Gas Assn Technical sec v 6:1192-9 '24

Standardization of consumers' meters. D. McDonald. Am Gas J 122:125-6+ F 7 '25; Excerpts. Gas Age 55:191-2 F 7 '25

Standardizing our meters. W. Forstall. Gas Age 52:766 D 22 '23; Same. Am Gas J 120: 5 Ja 5 '24

Testing

Apparatus for testing meters for leaks. W. G. Allen. Am Gas J 120:294 Mr 29 '24

Outlines of instruction in the testing and repairing of gas meters. D. P. Allen, comp. 76p Engineering extension dept., Iowa state college, Ames '23

Testing gas-meters—from the consumer's side of the counter. N. H. Humphrys. Gas J (Lond) 165:700-1 Mr 19 '24

GAS mixing

Best type of manufactured gas plant for natural gas companies that are required to augment the failing supply of natural gas. A. Hurlburt. Am Gas Assn Technical sec v 6:734-41 '24; Same. Gas Age 54:501-4+ O 11 '24; Discussion. Am Gas Assn Technical sec v 6:741-9 '24

Changing from water gas to mixed gas. E. L. Spanagel. Gas Age 55:371-2 Mr 14 '25

Continuous vertical retorts. N. H. Memory. il Ind & Eng Chem 17:270-1 Mr '25

Inert matter in gas. W. Bertelsmann. Am Gas J 122:246-7, 257-60 Mr 21 '25

Influence of inerts in the practical uses of gas. Gas J (Lond) 168:643-4 D 3 '24

Natural gas distribution systems for the distribution of artificial gas in situations where the supply of natural gas has been exhausted. J. E. Burke. Am Gas Assn Technical sec v 6:1277-80 '24

Natural gas to mixed or manufactured gas? F. L. Pringle. Gas Age 53:753-6 My 31 '24

Nature of mixed gas. M. Xhygenesse. Am Gas J 122:188+ F 28 '25

Reformed gas in southern California plants. H. L. Masser. Gas Age 54:143-6 Ag 2 '24; Same. Am Gas J 122:413-14+ My 16 '25

Stratification of different gravity gases. T. W. Weigele. Gas Age 56:171-3, 205-8 Ag 8-15 '25

GAS oil

Catechism of central station gas engineering in the United States. Am Gas J 120:59-60 Ja 19 '24

Composition of light oils from carburated water gas. Engineering 116:652 N 23 '23

Deposits in gas pipes and meters. Am Gas J 119:530-1+ N 10 '23

Determining oil efficiencies in water gas manufacture. L. J. Willien. Gas Age 55:603-6 Ap 25 '25; Discussion. 56:663-6+ N 7 '25

Enrichment of coal gas by the injection of oil into the retorts during carbonization; abstracts. Engineer 140:442 O 23 '25; Gas J (Lond) 172:37-8 O 7 '25; Am Gas J 123: 675-6+ D 26 '25

Gas industry's pulling away from oil due to changing costs. W. K. Halbert. Nat Pet N 16:93-4 F 6 '24

Gummy deposits in gas meters—causes and prevention. R. L. Brown. diags Am Gas Assn Technical sec v 6:1353-1406 [bibliog. p. 1406]; Discussion. 1407-11 '24

Hydrogenation of a gas oil. H. G. Shatwell. il Inst Pet Tech J 10:903-11 D '24

Influence of operating practice on composition of carbureted water-gas light oil. R. L. Brown and H. G. Berger. Ind & Eng Chem 17:168-74 F '25

Light oil composition and meter deposits. R. L. Brown, E. F. Pohlman and H. G. Berger. bibliog diag Gas Age 52:645-8 N 24 '23

Report of the committee on deposits in gas pipes and meters. Am Gas Assn Technical sec v 5:1178-80 '23

Report on the use of the checkerless carburetter system. Am Gas Assn Technical sec v 6:809-12 '24; Same. Gas Age 54:797-8 D 6 '24; Discussion. Am Gas Assn Technical sec v 6:902-5 '24

Testing

Tentative methods of testing gas oils. Am Gas Assn Technical sec v 5:1172-6 '23

GAS ovens

Apple, mince or peach? making the American dessert with gas. H. S. Christman. il Am Gas J 122:505+ Je 13 '25

Fool-proof drying ovens. W. F. Miller. Am Gas J 123:109-10+ Ag 8 '25

Gas bake ovens. W. E. Inch. il Gas Age 52: 743-4 D 15 '23

Gas-fired conveyor type pretzel baking oven. il Am Gas J 120:251 Mr 15 '24

Realization of economy in gas-heated ovens. A. Forshaw. Gas J (Lond) 171:34-8; sup 4: 217-18, 232-3 Jl 1, O 28, N 11 '25; Discussion. 171:38 Jl 1 '25

Report of the committee on wholesale baking. H. M. Henry. Am Gas Assn Industrial Gas sec v 5:731-4; Discussion. 734-40 '23

Testing

Sub-committee *re* standard method of testing gas cookers. diags Gas J (Lond) 167:130-48 Jl 2 '24

GAS pipes

Address. E. F. Keable. il Gas J (Lond) 166: 461-3 My 14 '24

Advantages and disadvantages of spiral cast iron pipe made by the centrifugal process. Am Gas Assn Technical sec v 6:1214-17 '24

Aerial gas mains supplying part of Philadelphia. il Gas Age 55:302 F 28 '25

Airtight joint and plunger safeguard gas main crossing lift-span bridge. il diags Eng N 95: 392-3 S 3 '25

Are gas companies suffering from the destruction of service and main pipes by electrolysis? Am Gas Assn Technical sec v 6: 1254-7 '24

Arterial supplies. B. F. Botwood. Gas J (Lond) 168:844-5 D 24 '24

Brazed joints for cast-iron gas mains. A. F. Bridge and M. R. Thompson. il Gas Age 52:699-703 D 8 '23

Bronze welded cast iron pipe joints are practicable. H. Y. Carson. il Gas Age 53:757-60 My 31 '24; Abstract. Foundry 52:469-70 Je 15 '24; Excerpt. Iron Tr R 75:97-8 Jl 10 '24

Bronze welded joints for cast iron pipes. il Gas Age 54:823-5+ D 13 '24; Abstract. Gas J (Lond) 169:140 Ja 21 '25

Catechism of central station gas engineering in the United States. Am Gas J 121:841-2, 861-4, 885-8, 1138-40, 1159-62 S 13-27, N 1-8 '24

Completing fifteen miles of gas service in Chicago. il Gas Age 55:115-17 Ja 24 '25

Cooperation in the maintenance of underground structures. L. K. Richey. il diags plans Gas Age 56:3-4+ Jl 4 '25

Corrosion and deposits in gas distributing systems. Am Gas J 120:493 My 24 '24

Corrosion and rusting of wrought iron and steel gas barrel. il Gas J (Lond) 171:sup 3-13; Discussion. 13 Jl 22 '25

Corrosion, inc.—a billion dollar concern. R. B. Williams. Gas Age 55:409-10 Mr 21 '25

Deposition in mains. H. Wynne. Gas J (Lond) 166:47-9 Ap 2 '24

Destruction of iron and lead pipe. G. Offe. Am Gas J 123:238-9 S 19 '25; Same. Gas Age 56:803 D 5 '25

Distribution of gas. W. B. Payne. il diag Gas J (Lond) 168:787-9 D 17 '24

GAS pipes—*Continued*
Distribution of gas under pressure. C. E. Harford. diags map Gas J (Lond) sup 4:11-13; Discussion. 13-14 Ja 28 '25
Elimination of condensation on gas appliance vent pipes. C: W. Geiger. il diags Am Gas J 121:648-9 Jl 12 '24
Further experiments and experiences in connection with rubber as a jointing material for gas-mains. W. Hole. il diags Gas J (Lond) 166:899-901 Je 25 '24
Galvanized welded joints in pipe lines. W. H. Rogers. il Am Gas J 120:346 Ap 12 '24
Internal corrosion and deposits in gas mains. W. V. Watson. il Gas Age 54:557-60 O 18 '24
Laying gas mains. I. F. Wortendyke. Am Gas J 122:223+ Mr 14 '25; Same. Gas Age 55:703-4+ My 16 '25
Lightning destroys a new 20-inch gas main. E: H. Bauer. il diag Gas Age 54:289-91 Ag 30 '24
Linking-up rural areas with a high-pressure gas supply. J: E. Morfett. il Gas J (Lond) 166:468-71 My 14 '24
Memorandum regarding protective coatings suitable for service pipe. F. N. Speller and H. R. Redington. Am Gas Assn Technical sec v 6:1239-46 '24
Methods adopted to deal with leakage in colliery districts. D. Muir. Gas J (Lond) 170: 742-3 Je 10 '25
Pipe corrosion and problems of protection. H. S. Christopher. il Gas Age 56:283-5, 351-4 Ag 29, S 12 '25
Pipe joints for gas mains. Iron Age 114:1365 N 20 '24
Position of mains in public highways. S. Lacey. Gas J (Lond) 164:711-12; Discussion. 712-13 D 12 '23
Practical hints in connection with gas mains and service work. G: Ball. Gas J (Lond) 166:49-50 Ap 2 '24
Recent tests on rubber joint rings for gas mains. W. Hole. il diag Gas Age 55:149-51 Ja 31 '25
Reinforced welds in pipe crossing a river. il Gas Age 53:903 Je 28 '24
Relative life of steel and wrought iron pipe. Am Gas Assn Technical sec v 6:1234-7 '24
Relative value of cast iron, wrought iron or steel pipe for high-pressure distribution. Am Gas Assn Technical sec v 6:1246-50 '24
Soil corrosion of gas distributing systems. H. S. Christopher. il Gas Age 54:633-8 N 1 '24
Unusual job of lowering large gas mains. H. B. Andersen. il Am Gas J 121:1198+ N 22 '24; Same. Gas Age 55:41-2 Ja 10 '25
Use of pneumatic tools for remaking lead joints. H. J. Escreet. Gas J (Lond) 165:260-1; Discussion. 261-2 Ja 30 '24
Utility and durability of rubber as a jointing material for gas-mains. W. Hole. il diags Gas J (Lond) 164:504-8 N 21 '23; Abstract. Rubber Age 14:260-2 Ja 10 '24
Welded steel gas main data from Portland, Oregon. R. M. McCalley. il Gas Age 54: 425-8+, 463-5 S 27-O 4 '24
Welding gas mains. L: Stein. Am Gas J 123: 155-6+ Ag 22 '25
Welding steel gas pipe. il Can Eng 47:447 O 21 '24
What are the advantages and disadvantages of laying gas mains in parkways, and under what conditions should they be laid in the pavement between curbs? il diags Am Gas Assn Technical sec v 6:1220-6 '24
What material do you use for service pipe. Am Gas Assn Technical sec v 6:1293-6 '24
See also Gas distribution; Gas fitting; Gas flow

Cleaning
Methods of removing different forms of stoppages from gas mains. Am Gas Assn Technical sec v 6:1269-70 '24
Process of cleaning out distribution mains. Am Gas Assn Technical sec v 6:1251-3 '24
Several gas engineering and distribution problems; naphthalene stoppage and other deposits. W. W. Atley. diags plan Gas J (Lond) 166:387-8 My 7 '24
Wrinkle for the easy cleaning of house risers. A. C. Parent. diags Gas Age 56:145-6 Ag 1 '25

Repair
Locating gas pipes by radio. B. R. Carney. diags Gas Age 54:795-6+ D 6 '24

Standards
Report of the committee on cast iron pipe standards. Am Gas Assn Technical sec v 6:1199; Discussion. 1199-1203 '24

Testing
Corrosion by city gas. C. H. S. Tupholme. Iron Age 116:738 S 17 '25
Selecting and testing wrought-iron tubes. J: M'Intyre. Gas J (Lond) 170:124 Ap 8 '25

GAS plants. See Gas works

GAS poisoning. See Carbon monoxide; Gas, Accidents from; Gases, Irritant

GAS power
Modified temperature-entropy diagram for a gaseous working substance. G. E. Scholes. Engineering 118:215-16 Ag 15 '24; Abstract. Mech Eng 46:711-12 N '24

GAS power plants
China clay trade and cheap power; Crossley gas engines. il Chem Age (Lond) 10:sup10-11 F 16 '24
Generating units of United States helium gas power plant. Z. W. Wicks. il diag Power 62:8-11 Jl 7 '25
Why not a gas-steam binary system? A. Cochran. diag Power 59:495-6 Mr 25 '24

GAS pressure gages. See Pressure gages

GAS pressure regulators. See Pressure regulators

GAS producers
Application of blast furnace gas and air for blowing a gas producer. G. R. McDermott. Blast F & Steel Pl 13:344-6 S '25
Combustion in the gas producer and the blast furnace. A. Korevaar. 189p Van Nostrand '24
Completely mechanical gas producer. il Chem & Met Eng 30:914 Je 9 '24
Dampfgewinnung für gaserzeuger unter ausnutzung des ofenkühlwassers. R. Hennecke. Stahl & Eisen 45:1602-4 S 17 '25
Les enseignements du dernier congrès de motoculture et des carburants nationaux. A. Guiselin. diags Soc Ing Civils Bul 78:82-5, pl 88 Ja '25
European producer practice; gas operated furnaces reward engineers in search. C. H. S. Tupholme. diags Blast F & Steel Pl 12: 401-6 S '24
Gas producer practice. W. Dyrssen. Blast F & Steel Pl 12:58-62, 117-21, 161-5, 271-3 Ja-Mr, Je '24
Gas-producer practice; abstracts. A. H. Lymn and others. Iron & Steel Inst J 110:360-2 no 2 '24
Gas producer theory and practice. A. B. Huyck. Blast F & Steel Pl 12:542-5; 13:90-2 D '24, F '25
Gas producers on a large scale. il Chem & Met Eng 32:232 F 9 '25
Gas production from heavy fuel oils by partial combustion. J. E. Hackford. diags Soc Chem Ind J 44:299-303; Discussion. 303-5 Je 19 '25
Die gaserzeuger; handbuch der gaserei mit und ohne nebenproduktengewinnung. H. R. Trenkler. 378p J. Springer, Berlin '23
Gazéification du lignite rhénan gazogènes et appareils de dégoudronnage; abstract. H. Becker. diags Chimie & Ind 13:402-6 Mr '25
Generation of power with factory refuse. F. Johnstone-Taylor. diags Power Pl Eng 28: 326-8 Mr 15 '24
Gerard gas producer. diag Mech Eng 47:291 Ap '25
Influence of pulsations on combustion. J. Deschamps. diags Engineer 139:152-3 F 6 '25; Abstract. Mech Eng 47:290-1 Ap '25

GAS producers—*Continued*
Modern gas producers. N. E. Rambush. 564p Van Nostrand '23
Neue gaserzeugeranlage mit tieftemperaturteer-gewinnung. F. Kaiser. diags Zeit Ver Deutsch Ing 69:1357-8 O 24 '25
New Zealand brown coals, with special reference to their use in gas producers and for low-temperature distillation. W. O. R. Gilling and W. P. Evans. diags Soc Chem Ind J 44:259-63 My 29 '25
Open-hearth pressure control. G. R. McDermott. il chart Blast F & Steel Pl 13:232-3 Je '25
Producer gas as an industrial fuel. D. J. Demorest. il Chem & Met Eng 31:578-81 O 13 '24
Production of gas in the generator. E. Terres and J. Schierenbeck. diags Am Gas J 121: 1285-6+ D 20 '24
Reactions in the fuel bed of a gas producer. R. T. Haslam, F. E. Entwistle and W. E. Gladding. Ind & Eng Chem 17:586-8 Je '25; Same. Gas Age 56:39-42 Jl 11 '25
Recovering gas from carbonaceous wastes. C. H. S. Tupholme. diags Chem & Met Eng 31:188-90 Ag 4 '24
Researches on producer practice. Gas J (Lond) 167:695 Ag 27 '24
Sawdust as a fuel for gas production. H. Dormand. diags Power 59:862-3 My 27 '24
Slagging producer in steel works; abstract. K. Huessener. Mech Eng 46:708 N '24
Strache mixed-gas producer. H. Strache. il diags Gas J (Lond) 171:48-9 Jl 1 '25
La technique des gazogènes applicables à la locomotion. J. Auclair. Génie Civil 84:508-9 My 24 '24
Untersuchungen über den betrieb des abstichgaserzeugers. A. Wilhelmi. Stahl & Eisen 43:1419-26; Discussion. 1426-7 N 15 '23
Use of wood in gas producers. C. Saxton. Am Cer Soc J 6:1219-23 D '23
Using a modified Mond producer for low temperature carbonization. C. H. S. Tupholme. diags Chem & Met Eng 30:271-3 F 18 '24
Die vergasung von rohbraunkohlen. A. Loschge. diags Zeit Ver Deutsch Ing 69:1-8 Ja 3 '25
Versuche zwecks feststellung der günstigsten zusammensetzung des generatorgases durch aenderung der schütthöhe und der wasserdampfmenge. B. Osann. diags Stahl & Eisen 45:1566-8 S 10 '25
Wellman mechanical gas producer. il diags Engineering 119:37-40 Ja 9 '25

See also Gas, Producer; Gas, Straw; Gas, Water; Gas and oil engines; Gas manufacture

Testing

Test code for gas producers. Mech Eng 46: 910-15 D '24

GAS products association
Midwinter convention, 10th, Chicago, Jan. 17-19. Iron Age 113:297-8 Ja 24 '24

GAS pumps
Rotary high pressure blower and gas pump. E. D. Johnston. il Am Gas J 120:567+ Je 21 '24

See also Humphrey pumps

GAS purification
Catalysis of doubtful utility in gas purification. A. C. Blackall. Gas Age 53:161 F 9 '24
Catalytic purification of gas. Am Gas J 120: 266 Mr 22 '24
Catalytic purification of gas. Am Gas J 120: in the United States. Am Gas J 120:295-8, 595-8; 121:619-22, 641-4, 663-6, 687-90 Mr 29, Je 28-Jl 26 '24
La condensation du gaz dans les usines à gaz et dans les cokeries. A. Grebel and H. Bouron. Génie Civil 84:130-3 F 9 '24
Conditions affecting the activity of iron oxides in removing hydrogen sulphide from city gas. W. A. Dunkley and R. D. Leitch. diags U S Bur Mines Tech Pa 332:1-33 '24; Same cond. Gas J (Lond) 171:443-7 Ag 19 '25; Abstract. Am Gas J 122:187-8, 447 F 28, My 23 '25
Le débenzolage du gaz. A. Grebel. il diag Génie Civil 87:37-43, 53-7 Jl 11-18 '25
Debenzolising coal gas by solid adsorbents; activated carbon and silica gel. E. Urbain. Chem Age (Lond) 11:161-2 Ag 16 '24
Detarring gases by electrical precipitation. N. H. Gellert. Am Gas J 121:1129-30+ N 1 '24
Improved methods and research work. P. G. G. Moon. Gas J (Lond) 170:41-3 Ap 1 '25
Naphthalene. H. P. Lupton. Gas J (Lond) 165: 262-5 Ja 30 '24
New purifying processes. Gas Age 52:619-20 N 17 '23
Organic sulphur in gas from typical plants. J. B. Craven. Am Gas Assn Technical sec v 5:1191-3 '23
Pneumatic handling and revivification of oxide. il Gas J (Lond) 170:527-8 My 20 '25
Les procédés actuels de débenzolage du gaz. C. Dantin. diags Génie Civil 85:472-5 N 22 '24
Professor Cobb's new process for the removal of sulphur from gases. E. K. Rideal. Chem Age (Lond) 13:300-1 S 19 '25
Progress in liquid purification; Koppers company process. F. W. Sperr, jr. bibliog il chart diags Am Gas Assn Technical sec v 5:1200-32; Discussion. 1232-8 '23
Purification of gas. R. A. Weston. diags Gas J (Lond) 168:169-72; Discussion. 172-4 O 15 '24
Recent developments in European gas practice. C. H. S. Tupholme. diags Gas Age 54: 767-8; 55:189, 903-4; 56:175-6 N 29 '24, F 7, Je 27, Ag 8 '25
Recent experiences with extraction of naphthalene, corrosion of mains, and caking of sulphate of ammonia. B. Richardson. Gas J (Lond) 164:515-16 N 21 '23
Removal of combined organic sulphur from gas. G. Offe. Am Gas J 123:251-3 S 19 '25; Abstract. Gas J (Lond) 171:544-5 S 2 '25
Removal of organic sulphur from gas. A. R. Powell. Am Gas Assn Technical sec v 5: 1194-9 '23; Same abr. Gas J (Lond) 164:834-5 D 26 '23
Removal of organic sulphur from gas; aniline as the reacting agent. Gas J (Lond) 167:822 S 10 '24
Reorganization of the carbonizing and purifying plants at the Stockton corporation gas works. W. W. Atley. il diags Gas J (Lond) 172:159-63 O 21 '25
Report of chemical sub-committee on cooperative tests of purifying oxides, according to methods of gas chemists' handbook. Am Gas Assn Technical sec v 5:1163-71 '23
Report of purification committee. Am Gas Assn Technical sec v 6:1412-22; Discussion. 1423-6 '24
Report of the committee on deposits in gas pipes and meters. Am Gas Assn Technical sec v 5:1181-5 '23
Several gas engineering and distribution problems. W. W. Atley. diags plan Gas J (Lond) 166:388-9 My 7 '24
Synthesis of methane and the removal of carbon monoxide from water gas and coal gas; Gas investigation committee report. Gas J (Lond) 167:126-9 Jl 2 '24
Tests of oxide. Gas J (Lond) 168:849-50 D 24 '24
Use of live steam in purification. F. J. Pearce. Gas J (Lond) 168:723-4 D 10 '24

See also Blast furnace gas—Cleaning; Electric precipitation; Gas washing

GAS purifiers
Concrete gas purifiers at Burton-on-Trent. il Gas J (Lond) 168:438-9 N 12 '24
Concrete purifiers for the Glasgow gas works. J. F. Springer. il Gas Age 54:701-2+ N 15 '24
Fabricating arc welded steel purifier boxes in the field. J. F. Miller. il Gas Age 54:51-2 Jl 12 '24
Paraffine seals for purifying boxes. F. H. Shelton. diag Am Gas J 121:1204 N 22 '24

GAS ranges. See Gas stoves

GAS rates
Basis for rates discussed by Supreme court. J: Simpson. Gas Age 52:733-6 D 15 '23
Brentford gas company's standard price. Gas J (Lond) 169:355-6 F 11 '25
Commercial gas company's standard price. Gas J (Lond) 165:795-800 Mr 26 '24
Company's right to raise rate. Gas Age 54: 462 O 4 '24
Confiscatory order held invalid in Kansas. J: Simpson. Gas Age 54:117-18 Jl 26 '24
Contract gas rates. Gas Age 55:50 Ja 10 '25
Cost analysis and rate making. L. R. Lefferson. Am Gas J 122:119-20 F 7 '25
Court and commission decisions recently rendered. J: Simpson. Gas Age 54:185-7 Ag 9 '24
Detroit gas rates fixed by board of arbitration. Gas Age 53:601-2 My 3 '24
Do gas rates meet competition from other fuels? J. R. Jennings. Gas Age 56:255 Ag 22 '25
Doherty three-part gas rate. D. E. Byerly. Am Gas J 121:853-4+ S 20 '24
Dollar gas law and 650 b.t.u. standard condemned. Gas Age 54:897-8+ D 27 '24
Dollar gas law is found confiscatory in N. Y. Gas Age 53:141-2 F 2 '24
Fixed gas rates, independent of consumption. Gas J (Lond) 171:229-30; Discussion. 230-1 Jl 22 '25
Gas light and coke company's standard price. Gas J (Lond) 164:528-32 N 21 '23
Gas rate structure for large customers. F. A. Newton. Pub Serv Management 39:37-8 Ag '25
Is a new gas regulation act necessary? G: Evetts. Gas J (Lond) 166:306-8 Ap 30 '24
Is industrial gas business prohibitive because the rates are too high? A. B. Greenleaf. il Am Gas J 121:721-4 Ag 9 '24
Joplin gas rate increased by federal court. Gas Age 53:720+ My 24 '24
Legislature and gas rates in New York state. J: Simpson. Gas Age 55:84 Ja 17 '25
Present position of the gas industry. Gas J (Lond) 166:113-14 Ap 9 '24
Probable rate developments. R. E. Taylor. Am Gas J 122:463-4+ My 30 '25
Rate structure for selling gas. F. J. Schwab. Am Gas J 121:908+ O 4 '24; Same. Gas Age 54:483-4 O 4 '24
Rate structure in gas business. E. Haase. Am Gas J 122:137-8+ F 14 '25
Rate stumbling block in the pathway of larger sales. F. A. Newton. Gas Age 56:115-16 Jl 25 '25
Rates for industrial gas. T. V. Purcell. Gas Age 56:465-8+ O 3 '25
Rates passed by the Oklahoma corporation commission upheld. J: Simpson. Gas Age 53:49-50 Ja 12 '24
Reasonable rates supplant valuation method. J: Simpson. Gas Age 53:689-90 My 17 '24
Report of committee on rate fundamentals. Am Gas Assn General Sessions sec v 6:71-7 '24
Report of committee on rate structure. Am Gas Assn General Sessions sec v 5:123-87 '23
Retail prices of gas in the United States. Monthly Labor R 18:276-8, 987-9; 19:332-4, 1027-9; 20:271-3; 21:287-9 F, My, Ag, N '24, F, Ag '25
Revisions in price under section 1 of the Gas regulation act. G: Evetts. Gas J (Lond) 164:707-8 D 12 '23
Service charge—an itemized bill. C. D. Jackson. Am Gas J 120:265-6 Mr 22 '24
Some contrary opinions as to demand charge. J: Simpson. Gas Age 55:802 Je 6 '25
Therm system of gas payment; working of the new British system. F. Johnstone-Taylor. Am Gas J 119:681 D 29 '23
Three-part system of charging for gas. Gas J (Lond) 171:285 Jl 29 '25
Tottenham district light, heat, and power company; revision of standard price. Gas J (Lond) 169:279-81 F 4 '25
Tragedy of starvation rate. Pub Serv Management 36:101-2 Ap '24
Valuation for gas rate making purposes. J: Simpson. Gas Age 53:133-4 F 2 '24
Valuation for rate making by commissions. J: Simpson. Gas Age 56:73-5+ Jl 18 '25
What should dictate the rates for the gas service? Gas Age 54:769-71+ N 29 '24

Bibliography
Bibliography on rates (1876-1923). O. E. Norman. Am Gas Assn General Sessions sec v 5:188-230 '23

GAS research
Advantages of a central research laboratory. W. A. Dunkley. Am Gas Assn Technical sec v 6:1048-50; Discussion. 1050-3 '24
Cooperative research and service advocated for P.C.G.A. E. L. Hall. Gas Age 56:355-6 S 12 '25
Experimental gas plant in the University of Leeds. diags Soc Chem Ind J (Chem & Ind) 43:687-8 Jl 4 '24
Relation between heating value of gas and its usefulness to the consumer. E. R. Weaver. U S Bur Stand Tech Pa 290:347-463 '25; Abstract. Gas J (Lond) 172:782 D 23 '25
Report of the committee on program of research. Am Gas Assn Technical sec v 5: 1244-7; v 6:1054-62 '23-'24
Research in co-operation with universities. J. J. Morgan. Am Gas Assn Technical sec v 6:1040-2 '24
Research in the individual gas company. C. A. Lunn. Am Gas Assn Technical sec v 6: 1045-7 '24

GAS retorts
Case for low-temperature carbonization in America today. H. W. Brooks. il diags plan Power 62:634-8 O 27 '25; Same. Power Pl Eng 29:1087-91 N 1 '25
Cast-iron retorts for low-temperature carbonization; Tozer process. C. H. S. Tupholme. diags Chem & Met Eng 30:471-3 Mr 24 '24
Catechism of central station gas engineering in the United States. diags Am Gas J 120: 105-8, 125-8, 145-8, 225-8, 247-50, 273-6, 295-8 F 2-16, Mr 8-29 '24
Coal-gas plant at the Great Western railway works, Swindon. Engineering 117:228-9, pl 14-16 F 22 '24
Coking in rotary retorts. A. Sander. Gas Age 52:662 N 24 '23
Combined retort and generator system for gas making. diag Am Gas J 122:9-10 Ja 3 '25
Continuous vertical retorts. N. H. Memory. il Ind & Eng Chem 17:270-1 Mr '25
Description of a new horizontal setting. diags Gas J (Lond) 167:257-8 Jl 9 '24
Evolution of the vertical retort. W. T. Dunn. Gas J (Lond) 170:248-9 Ap 22 '25
Horizontal retort settings; patent. diag Gas J (Lond) 171:172-3 Jl 15 '25
Influence of rotary retort construction on composition of primary tar and light oils. Gas Age 56:386 S 19 '25
Low-temperature carbonization. Gas J (Lond) 169:149-50 Ja 21 '25
Modern carbonization in continuous vertical retorts. A. Y. Plant. Gas J (Lond) 164:838-9 D 26 '23
Modern methods of coal carbonization. R. Gray. Gas J (Lond) 165:713-15 Mr 19 '24
Notes on testing for refractoriness and after-contraction; a few experiences with refractories in vertical retorts. T. F. E. Rhead and R. E. Jefferson. il diags Gas J (Lond) 171:sup31-41 Jl 22 '25
Presidential address. G. S. Frith. diags Gas J (Lond) 165:640-3 Mr 12 '24
Quelques essais de fours à cornues verticales à distillation continue Woodall-Duckham. H. Laedlein. diags Génie Civil 85:65-7 Jl 19 '24; Abstract. Gas J (Lond) 167:821-2 S 10 '24
Refractories for gas-retorts, with special reference to silica. W. Emery. il diags Gas J (Lond) 167:sup3-16 Jl 9 '24
Refractory materials in carbonizing practice. A. H. Middleton. Gas J (Lond) 172: 163-6 O 21 '25

GAS retorts—*Continued*

Report of the West gas improvement company, inc., New York; Glover-West vertical retorts—continuous type. F. J. Kennedy. il diags Am Gas Assn Technical sec v 6:1173-9 '24

Retorting and refractory materials. V. E. Harston. diags plan Gas J (Lond) 166:530-4; Discussion. 534-5 My 21 '24

Rotary gas-making retort. diag Am Gas J 122:469 My 30 '25

Vertical retort-house extension at Tipton. il diag Gas J (Lond) 164:512-14 N 21 '23

Vertical retorts. F. Sylvester. Gas J (Lond) 165:565-7 Mr 5 '24

Verticals at Victoria, B.C. F. H. Hewlings. Gas J (Lond) 164:455-6 N 14 '23

Verticals for small gas-works. il Gas J (Lond) 168:782 D 17 '24

Waste-heat boilers and vertical retort installations; twelfth report of the research subcommittee of the Gas investigation committee. diags Gas J (Lond) 167:106-24; Discussion. 124-6 Jl 2 '24

See also Gas manufacture

Charging machines

Catechism of central station gas engineering in the United States. Am Gas J 120:60-2, 75-8 Ja 19-26 '24

Discharging and charging retorts. diag Am Gas J 122:551 Je 27 '25

Manufacture

Works of Williamson, Cliff, ltd. il diag Gas J (Lond) 171:801-3 S 30 '25

Steaming

Production of different grades of gas. A. Parker. Gas J (Lond) 167:816-21 S 10 '24

Steaming of Wigan Arley coal in vertical retorts; abstracts from Fuel research board tests. Engineering 116:565-6 N 2 '23; Gas J (Lond) 164:378-9 N 17 '23

GAS sampling

Appareil autocapteur de gaz, à flacons renversés, de M. Dessemond. diag Génie Civil 86:344 Ap 4 '25

Automatic gas sampler. diag Am Gas J 122: 95-6 Ja 31 '25

Sampling of gases. J. H. Goldsmith. diag Gas J (Lond) 168:847-8; Discussion. 848-9 D 24 '24

GAS scrubbing. See Gas washing

GAS-steam plants (proposed)

Why not a gas-steam binary system? A. Cochran. diag Power 59:495-6 Mr 25 '24

GAS steam radiators

Combination gas steam heats kitchens in Fitchburg. J. E. Bullard. Gas Age 55:25-6 Ja 3 '25

Complete heating system at the Towns paint company, Buffalo, N.Y. J. F. Magee. il Gas Age 55:542 Ap 11 '25

Heating a Chicago church by gasteam. G. C. Carnahan. il Gas Age 53:477-8 Ap 12 '24

Heating by gas steam radiators. il Gas Age 53:491-2+ Ap 12 '24

Standard code for testing and rating unvented gas-fired steam radiators. Am Gas Assn Manufacturers' sec v 5:836-9 '23

GAS storage

Mixing of gas in holders. G. Offe. Am Gas J 123:239 S 19 '25; Same. Gas Age 56:803 D 5 '25

See also Gas holders

GAS stoves

Aids in selling ranges. F. H. Williams. Am Gas J 121:1244 D 6 '24

Anti-waste gas cookers. il Gas J (Lond) sup 4:119 My 27 '25

Breaking electric range competition. C. E. Reese. Am Gas J 122:437-8 My 23 '25

Campaign for gas ranges. A. F. Timberlake. Am Gas J 123:72+ Jl 25 '25; Same. Gas Age 56:28+ Jl 4 '25

Does price affect sales in direct to home campaigns? L. B. Michaels. Gas Age 56: 369-70+ S 12 '25

Double duty range cooks food and heats kitchen. A. M. Spencer. Gas Age 56:127 Jl 25 '25

Every season is gas range season. J. B. Dillon. Am Gas J 121:1176+ N 15 '24

Fattening up the appliance sales records during the lean months. W. F. Rossman. Gas Age 54:526 O 11 '24

Flueless gas-stoves. Gas J (Lond) 166:695, 759-60, 854 Je 4-18 '24

Gas stoves for autumn. W. B. Stoddard. Am Gas J 121:879-80+ S 27 '24

Ignore the rubber stamp orators. J. B. Dillon. Am Gas J 121:833-4 S 13 '24

Knowledge is power. J. B. Dillon. Am Gas J 122:250+ Mr 21 '25

Linking up range sales with the turkey. W. B. Stoddard. il Gas Age 54:410+ S 20 '24

Management behind outside selling crews. J. R. Jennings. il Gas Age 55:351-2+ Mr 7 '25

Modern gas cooker. il Gas J (Lond) sup 3: 195 O 22 '24

New stunt is used in gas range merchandising. il Gas Age 55:141-2 Ja 24 '25

New World cooker. H. Davies. Gas J (Lond) sup 3:103; Discussion. 103-4 My 28 '24

New World Junior gas-cooker. il Gas J (Lond) 166:457-9 My 14 '24

Rebuilding and modernizing of cookers. H. C. Higgs. il Gas J (Lond) 166:46-7 Ap 2 '24

Richmond's bungalow cooker. il Gas J (Lond) sup 4:158-9 Jl 29 '25

Richmond's elevated cookers. il Gas J (Lond) sup 3:100 My 28 '24

Safety of gas fires in regard to carbon monoxide. L. Hill and T. C. Angus. Gas J (Lond) 170:110 Ap 8 '25

Seasonal advertising brings results in Honolulu. W. B. Stoddard. Gas Age 55:27 Ja 3 '25

Selling gas ranges in a special sale. J. L. Simpson. il Am Gas J 121:794+ Ag 30 '24

Selling the gas range. L. B. Michaels. Am Gas J 122:230+ Mr 14 '25

Taste before she buys her kitchen companion. L. B. Michaels. Gas Age 54:201-2+ Ag 9 '24

Testing gas-cookers. Gas J (Lond) sup 3:155, 173 Ag 27-S 24 '24

Wessex cooker. il Gas J (Lond) sup 3:99 My 28 '24

Your gas range campaign can have individuality. C. W. McCampbell. Gas Age 56:372 S 12 '25

Cocks

Adjustable gas range cocks. diags Am Gas Assn Manufacturers' sec v 5:830 '23

Semi-automatic machine tooled up to drill, counterbore and tap the ball of the plug of gas stove cocks. il Iron Age 116:11-12 Jl 2 '25

Manufacture

Visit to the Gothic works, Falkirk. il Gas J (Lond) sup 4:36-8 F 25 '25

Specifications

Plea for cooperation with the A. G. A. in its work of standardizing stove manufacture. C: T. Aaron. Gas Age 53:162+ F 9 '24

Standard gas-cookers; addenda to the specification dated March 31, 1922. Gas J (Lond) 164:332 O 31 '23

Standard gas range specifications; revised 1923. Am Gas Assn Manufacturers' sec v 5:815-29 '23

GAS supply

See also Gas, Natural—Auxiliary plants

Buffalo, New York

Fuel program; an investigation by the Bureau of mines into the fuel situation in Buffalo. Am Gas J 120:594+ Je 28 '24

GAS testing

Developments in gas calorimetry. C. V. Boys. il Gas J (Lond) 170:933-6 Je 17 '25; Abstract. Engineering 119:758-9 Je 19 '25; Discussion. Gas J (Lond) 170:936-8 Je 17 '25

GAS testing—*Continued*
Dr Ott's test burner. il Gas J (Lond) 171: 493 Ag 26 '25
Importance of the accuracy of instruments. R. L. Rundorff. Gas Age 55:765-6+ My 30 '25
Influence of inerts in the practical uses of gas. Gas J (Lond) 168:643-4 D 3 '24
Regulating thermal value of gas. C: Deschamps. diags Am Gas J 123:262+ S 26 '25; Abstract. Gas J (Lond) 171:232 Jl 22 '25

GAS torch
Easily constructed gas torch. B. Devereaux. diag Mach 31:948 Ag '25
New cutting and welding torches. il Iron Age 114:993 O 16 '24
Utilizing gas-torch welding in building construction. il Eng N 93:432-3 S 11 '24
See also Metal cutting; Oxyacetylene apparatus

GAS tractors. See Tractors, Gas

GAS tubing
Insuring safety in sale of gas tubing; ordinance in Newark, N. J. J. R. Jennings. il Gas Age 52:529-32 O 27 '23; Same. Nat Safety N 9:25-7 F '24
Safe gas tubing. C. D. Frees. Am Gas J 121:891 S 27 '24

GAS turbines
Development of gas and oil turbines. il diags Iron Age 114:1329-33, 1407-9 N 20-27 '24; Abstract. Mech Eng 47:45-6 Ja '25
Entwicklungslinien der dampfkraftmaschinen und die aussichten des gasmaschinenbetriebes. H. Hoff. il Stahl & Eisen 44:1567; Discussion. 1567-75 D 4 '24
Exhaust-gas turbines and superchargers; abstract. diag Mech Eng 47:355 My '25
Gas turbine. Sci Am 133:57+ Jl '25
Gas turbine. J. Deschamps. Engineer 136:646-7 D 14 '23; Discussion. H: A. Hepburn. 136: 676-7 D 21 '23
Gas turbine; abstracts. H. Campbell. Elec R (Lond) 94:254 F 15 '24; Mech Eng 46:216-17 Ap '24; Discussion. J: T. Faig. 46:297 My '24
Gas turbine—is there anything in it? diag Sci Am 132:119 F '25
Gas turbines. L. S. Marks and M. Danilov. Mech Eng 47:462-8 Je '25
Gas turbines; a review of current theory and practice; abstracts. M. Konig. il diag Elec R (Lond) 96:755-6, 832-4 My 8, 22 '25; Engineering 119:747-51 Je 12 '25; Electrician 95:210-11 Ag 21 '25
Holzwarth gas and oil turbine. il chart diags Marine Eng 30:570-4 O '25
Internal-combustion turbine; abstract. Mech Eng 47:668-9 Ag '25
Large internal combustion turbine. il Marine Eng 30:401-2 Jl '25
New methods of energy generation—Stauber gas turbine; abstract. Löffler. diag Mech Eng 46:284-5 My '24
Why the gas turbine is impracticable. L. S. Marks. Power 60:935-6 D 9 '24

GAS washers
Catechism of central station gas engineering in the United States. Am Gas J 120:321-2, 347-50 Ap 5-12 '24
Gyro scrubber. il Power 59:1003 Je 17 '24
Some interesting angles to the condensing and scrubbing of manufactured gas. F. W. Steere. flow sheet Can Chem & Met 9:29-32 F '25

GAS washing
Absorption of gases and vapours by liquids. J. Brown. Soc Chem Ind J 44:410-12 Ag 7 '25
Design and operation of gas scrubbing towers. H. D. H. Drane. flow sheet diags Soc Chem Ind J (Chem & Ind) 43:329-34 N 21 '24
Feld process; obtaining pitch and tar oils, ammonia and sulphuretted hydrogen from coke oven gas. W. Funcke. diags Am Gas J 123:281-2+ O 3 '25
Several gas engineering and distribution problems. W. W. Atley. diags plan Gas J (Lond) 166:388-9 My 7 '24
See also Gas purification

GAS water heaters
Automatic gas water heater discussed from all angles. O. L. Maddux. diags Gas Age 53: 245-50 Mr 1 '24
Automatic water heater campaign. Am Gas Assn Commercial sec v 5:631-5 '23
Building good will with water heaters. J. E. Bullard. Gas Age 54:203-4 Ag 9 '24
Catechism of central station gas engineering in the United states. Am Gas J 121:1295-6, 1315 D 20-27 '24
Circulating boilers and geysers. H. W. Kerridge. Gas J (Lond) sup 3:29; Discussion. 29-30 F 27 '24
Don't sell too small water heaters. J. E. Bullard. Am Gas J 120:130-1 F 9 '24
Ewart's "califont"; hot-water supply for small houses. diag Gas J (Lond) sup 3:27-8 F 27 '24
Field of opportunity. il diag Gas J (Lond) sup 3:194 O 22 '24
Gas boiler (or circulator) and its application. F: W. Dye. Gas J (Lond) 164:584-5 N 28 '23
Gas geyser specification. Gas J (Lond) 167: 692-3 Ag 27 '24
Gas-heated boiler. F. W. Dye. Gas J (Lond) sup 3:238 D 31 '24
Gas-heated domestic hot-water supply. T. F. C. Potterton. diags Gas J (Lond) 165:31-2 Ja 2 '24
Gas heated hot water apparatus. W. B. Cobb. Gas J (Lond) sup 4:68-9 Mr 25 '25
Gas water heating. H. J. Long. Am Gas J 123:67-8 Jl 25 '25
Gas water heating possibilities. J. E. Bullard. Am Gas J 121:1141+ N 1 '24
Geysers. W. B. Cobb. Gas J (Lond) sup 3: 59-60 Mr 26 '24
Heating water for public baths. il Gas J (Lond) sup 4:194-5 S 30 '25
Hot water apparatus and the application of the gas boiler and circulator. F: W. Dye. diag Gas J (Lond) sup 3:32, 50, 81-2, 98-9, 115-16, 154-5, 173-5, 252-4; sup 4:58-9, 116-18, 159, 174 F 27-Je 25, Ag 27-S 24, D 31 '24, Mr 25, My 27, Jl 28-Ag 26 '25; Correction. sup 4:196 S 30 '25
Hot water for summer use. W. B. Stoddard. Am Gas J 123:48+ Jl 18 '25
Hot water from gas heaters; University of Pittsburgh stadium. il Gas Age 56:587 O 17 '25
Hot water in the English catering industry. il Gas Age 54:567-8 O 18 '24
Hot water in the home. G. C. Carnahan. Am Gas J 122:332+ Ap 18 '25
How a storage system campaign was made successful. W. H. Van Riper. il Gas Age 56: 55-6+ Jl 11 '25
How to make a hot water heater agency pay. R. C. Nason. Sanitary & Heat Eng 101:231-3+ Ap 18 '24
Ideal canvasser. Gas J (Lond) sup 3:55 Mr 26 '24
Is there a saturation point for water heaters? J. E. Bullard. Gas Age 55:821-2 Je 6 '25
Master plumber and the heating contractor are the logical distributors of gas heating and cooking devices. il Dom Eng 105:373-4 N 24 '23
New instantaneous gas water-heater. il Sci Am 131:182 S '24
Possibilities of developing the water heater business. F. L. Mendez. Am Gas Assn Commercial sec v 6:562-9 '24; Excerpts. Am Gas J 121:1033-6 O 16 '24; Same. Gas Age 54: 535-6+ O 11 '24
Provision of hot water by gas. R. G. Marsh. il Gas J (Lond) sup 4:211-12 O 14 '25
Richmond's geysers. il diags Gas J (Lond) sup 4:4-5 Ja 28 '25
Specializing on water heater service. J. E. Bullard. Gas Age 54:269-70 Ag 23 '24
Supporting your sales organization with proper water heater installations. G. C. Carnahan. diags Am Gas Assn Commercial sec v 5:686-701 '23
Test of a gas-fired heating boiler. il Heat & Ven 21:77-8 N '24
Water heating in commercial places. P. J. Lafore. charts Gas Age 52:585-6+ N 10 '23

GAS water heaters—*Continued*

Advertising

Ruud develops a new advertising tie-up with a movie. Ptr Ink 130:36 F 19 '25

Cocks

Standard circulating water heater cock specification. diags Am Gas Assn Manufacturers' sec v 5:833-5 '23

GAS wells. See Gas, Natural

GAS works

Aberdeen gas-works. il Gas J (Lond) 170: 670-1 Je 3 '25

Address at North of England gas managers' association. G. Weyman. Gas J (Lond) 170: 665-7 Je 3 '25

Address at Yorkshire junior gas association. E. Gillett. Gas J (Lond) 168:577-9 N 26 '24

At the Fulham gas-works. il Gas J (Lond) 170:960-2 Je 17 '25

At the lower Sydenham works of the South Suburban gas company. il Gas J (Lond) 164: 449-51 N 14 '23

Auckland and Devonport (N.Z.) gas-works. J. Lowe. il Gas J (Lond) 170:250-1 Ap 22 '25

Beargrass back run plant at Louisville is now in operation. W. J. Welch. il Gas Age 53: 33-6 Ja 12 '24; Excerpt. Pub Serv Management 36:57-8 F '24

Beckton works of the Gas light and coke company. Gas J (Lond) 169:332-3 F 11 '25

Buffalo plant for the Iroquois corporation described. J. S. DeHart, jr. il plans Gas Age 54:283-6 Ag 30 '24

Centenary of the Maidstone gas company. il Gas J (Lond) 164:767-70 D 19 '23

Centenary of the Northampton gas company. il Gas J (Lond) 169:26-8 Ja 7 '25

Century of gas in South London. Engineer 139:496 My 1 '25

Chemical engineering in modern gas works practice; abstracts. W. A. Twine. Chem Age (Lond) 10:161 F 16 '24; Gas J (Lond) 165:379 F 13 '24

Chesterfield gas undertaking centenary; new carbonizing plant. il Gas J (Lond) 169:596-7 Mr 11 '25

Coal-gas plant at the Great Western railway works, Swindon. il diags Engineering 117: 164-9, 228-9, 328-30, 421-2, pl 9, 14-16, 25, 28-31 F 8, 22, Mr 14, Ap 4 '24

Construction of new coal-gas works at Garston. R. E. Gibson. il diags plan Gas J (Lond) 167:170-9; Discussion. 179-82 Jl 2 '24

Derby gas light and coke company. il Gas J (Lond) 170:956-60 Je 17 '25

Dumbarton's gas supply and new works. il Gas J (Lond) 164:380-3 N 7 '23

Elland gas-works. il Gas J (Lond) 166:677-8 Je 4 '24

Elrama mixed gas plant extensions at Pittsburgh. Gas Age 53:639-40+ My 10 '24

Erection of the new Oreland, Pa., gas plant. il plan Gas Age 55:3-5+ Ja 3 '25

Experimental gas plant installed at Leeds university. A. C. Blackall. il diag plan Gas Age 53:717-19 My 24 '24

Five years operation of a vertical retort gas plant. M. H. Frank. il diag plan Gas Age 54:355-6+ S 13 '24

Foleshill gas-works, Coventry. il Gas J (Lond) 164:313-18 O 31 '23

Fourteenth report of the research sub-committee of the gas investigation committee; the experimental gas plant at Leeds university. il diags plans Gas J (Lond) 170: 898-910; Discussion. 910 Je 17 '25

Fulham station of the Gas light and coke company. W. Grogono. Gas J (Lond) 164:383-5 N 7 '23

Gas efficiency and service on Portsea Island. il Gas J (Lond) 168:226-30 O 22 '24

Gas oven plant erected at Utica, New York. J. E. Cooper. il diags Gas Age 54:495-9 O 11 '24

Gas Street works, Bolton. J. T. Haynes. Gas J (Lond) 172:97-8 O 14 '25

Gas supply centenary at Great Yarmouth. il Gas J (Lond) 169:85-8 Ja 14 '25

Gas-works practice. G. E. Currier. Gas J (Lond) 169:212-14 Ja 28 '25

Gas-works reconstruction at Leek. il plan Gas J (Lond) 169:334-6 F 11 '25

Glover-West vertical retorts at Oldbury. il Gas J (Lond) 169:682-3 Mr 18 '25

Glover-West verticals at Dundalk. il Gas J (Lond) 168:575 N 26 '24

Glover-West verticals at York. il Gas J (Lond) 166:43-5 Ap 2 '24

Grangetown works. H. D. Madden. Gas J (Lond) 171:806-7 S 30 '25

Inauguration of experimental coal-gas plant at Leeds university. il plans Gas J (Lond) 166:27-9 Ap 2 '24

Inauguration of new gas plant at Congleton. il Gas J (Lond) 168:729-31 D 10 '24

Landy works of the Société du gaz de Paris. il Gas J (Lond) 166:836-9 Je 18 '24

La Villette works of the Société du gaz de Paris. Gas J (Lond) 167:639-41 Ag 20 '24

Malden's new coal gas plant. R. S. Carter. il diags Gas Age 55:569-70 Ap 18 '25

Nechells gasworks. Gas J (Lond) 166:539-40 My 21 '24

Neepsend gas-works, Sheffield. il Gas J (Lond) 169:737-9 Mr 25 '25

Ein neuzeitliches gaswerk. G. Nonnenmacher. il Zeit Ver Deutsch Ing 69:57-61 Ja 17 '25

New coal carbonizing plant at Danbury, Conn. il Gas Age 54:505-8 O 11 '24; Am Gas J 121:947-9 O 11 '24

New gas plant of the Iroquois gas corporation at Buffalo, N.Y. N. H. Memory. il Stevens Ind 41:30-2 Mr '24

New gas-works at Pitwines, Poole. P. G. G. Moon. il Gas J (Lond) 170:117-22 Ap 8 '25; Discussion. 172:506-7 N '25

New gas-works for Lytham St Annes. il plan Gas J (Lond) 168:289-92 O 29 '24

New Morriston works at Swansea. W. H. Johns. il diags plans Gas J (Lond) 168:497-507 N 19 '24

Newark gas works. il Gas J (Lond) 170:307-8 Ap 29 '25

Newark gas-works. F. A. West. diags Gas J (Lond) 170:237-40 Ap 22 '25

Notes on recent extensions at Montreal, Quebec. H. N. Osler. il Gas Age 56:387-90 S 19 '25

Oxford gas-works. Gas J (Lond) 170:466 My 13 '25

Presidential address. J. Campbell. il diags plans Gas J (Lond) 171:602-9 S 9 '25

Presidential address. G. S. Frith. diags Gas J (Lond) 165:640-3 Mr 12 '24

Presidential address; carbonizing plant at Brechin. R. L. Laing. Gas J (Lond) 170: 257-8 Ap 22 '25

Profit from waste heat. C. M. Walker. diag Gas Age 54:821-2 D 13 '24

Quality of concrete for gas plant construction. Gas Age 54:857-8 D 20 '24

Recent alterations and extensions at Hereford gas-works. A. Roberts. Gas J (Lond) 164:657-8 D 5 '23

Recent developments at Scunthorpe. J. F. Simpson. Gas J (Lond) 171:808-12; Discussion. 812-13 S 30 '25

Recent developments in European gas practice. C. H. S. Tupholme. diags Gas Age 54: 767-8; 55:7-8, 189-90; 56:175-6 N 29 '24, Ja 3, F 7, Ag 8 '25

Reorganization of the carbonizing and purifying plants at the Stockton corporation gas-works. W. W. Atley. il diags plans Gas J (Lond) 172:153-63 O 21 '25

Report of the Koppers company, Pittsburgh, Pa. H. J. Rose. il diags Am Gas Assn Technical sec v 6:1146-54 '24

Rochester gas company's centenary. il Gas J (Lond) 168:153-6 O 15 '24

Rochester's water gas plant has a checkerless carburetter. W. N. Whitney. il diag Gas Age 54:75-9 Jl 19 '24

Selection, design, and construction of new carbonizing plant at Stretford. W. M. Carr. il diags plan Gas J (Lond) 170:915-28; Discussion. 928-32 Je 17 '25

Small by-product oven coal gas plants. H. J. Rose. flow sheet il diag map Gas Age 56: 5-8 Jl 4 '25

GAS works—*Continued*

Some interesting history back of the gas industry; Allentown Bethlehem gas company. Gas Age 54:166+ Ag 2 '24

Some notes on gas-works practice. A. Cook. diags Gas J (Lond) 169:143-6 Ja 21 '25

Some problems and their solutions. C. M. D. Belton. Gas J (Lond) 165:705-6; Discussion. 706-7 Mr 19 '24

South Bank and Normanby gas light and coke company, ltd. S. Shadbolt. il Gas J (Lond) 168:161-5 O 15 '24

Steam survey of a manufactured gas plant. A. G. Hall. il Gas Age 56:279-80+, 315-18 Ag 29-S 5 '25

Stourbridge gas-works. il Gas J (Lond) 166: 674-6 Je 4 '24

Technical problems in a gas works. G. Offe. Am Gas J 123:239-40+ S 19 '25; Same. Gas Age 56:803-4+ D 5 '25; Abstract. Gas J (Lond) 171:544-5 S 2 '25

Tully gas and the economical therm. C. B. Tully. diags Gas J (Lond) 165:201-2 Ja 23 '24

Tunbridge Wells, gas works. il Gas J (Lond) 166:595-7 My 28 '24

Two Glover-West vertical retort installations; Le Mans and Palmerston North, N.Z. il Gas J (Lond) 166:604-5 My 28 '24

$2,500,000 Louisville gas plant completed. il Manuf Rec 85:79-80 Ja 3 '24

Value and importance of the attractive gas works. J. B. Jones. il Gas Age 55:777-8 My 30 '25

Visit to the Old Kent Road works. Gas J (Lond) 165:644-5 Mr 12 '24

Waste-heat boilers and vertical retort installations; twelfth report of the research subcommittee of the Gas investigation committee. diags Gas J (Lond) 167:106-24; Discussion. 124-6 Jl 2 '24

Water-gas plant at Auckland, New Zealand. J. Lowe. Gas J (Lond) 166:228-9 Ap 23 '24

Water gas plant recently installed at Kokomo. A. E. Robertson. il Gas Age 53:827-9 Je 14 '24

Working results at Hinckley. il Gas J (Lond) 169:138-9 Ja 21 '25

See also Ammonia—Manufacture; Gas, Natural—Auxiliary plants; Gas holders; Gas power plants

Damage from earthquakes

Japanese earthquake of 1923; effects on the Tokio gas company. il Gas J (Lond) 170: 231-3 Ap 22 '25

Santa Barbara earthquake; its effect upon the properties of the Southern counties gas co. F. H. Bivens. il Am Gas J 123:131-4+ Ag 15 '25; Same cond. Gas Age 56:257-8 Ag 22 '25

Electric equipment

Electric power plant for gas-works. H. P. Vowles. diags Gas J (Lond) 170:179-80 Ap 15 '25

Electrical equipment in the British gas works. F. Johnstone-Taylor. Gas Age 56:507-8 D 10 '25

Electricity in the carbonisation industries. H. Seymour. il Elec R (Lond) 96:339-41 F 27 '25

Employees

See Gas fitting—Study and teaching; Gas works—Safety devices and measures

Equipment

Application of scientific instruments to gas manufacture. H. A. Randall. Gas J (Lond) 169:607-10 Mr 11 '25

Automatic control for water-gas sets. il Chem & Met Eng 30:61 Ja 14 '24

Borrowing chemical engineering from the gas man. il diags plans Chem & Met Eng 31: 784-8 N 17 '24

Carbonizing apparatus of the Gas machinery co. W. E. Steinwedell. il Am Gas Assn Technical sec v 5:1001-3 '23

Carbonizing apparatus of the Improved equipment co. F. G. Curfman. il diags Am Gas Assn Technical sec v 5:1003-7 '23

Coke oven plants in medium sized gas works. H. McNair. Gas Age 56:107-9+ Jl 25 '25

Mechanical aids to gas manufacture. R. W. Foster. Gas J (Lond) 169:200 Ja 28 '25

Operating and labor saving devices. S. B. Sherman. il diags Am Gas Assn Technical sec v 6:1115-27 '24

Recent developments in gas manufacturing apparatus. C. A. Schlegel. Gas Age 56:37-8 Jl 11 '25

Recent developments in gas works machinery. F. H. Beebe. Gas Age 53:791-3+ Je 7 '24

Recent manufacturing extensions at Montreal; new equipment in the Lasalle gas works. H. N. Osler. il Am Gas J 123:118, 121-3 Ag 8 '25

Report of Russell engineering company. V. Baker. il Am Gas Assn Technical sec v 6: 1161-4 '24

Report of the Isbell-Porter company, Newark, N.J. J. S. De Hart, jr. il plan Am Gas Assn Technical sec v 6:1139-45 '24

Report of the Parker-Russell mining & mfg. co., St Louis. L. Wickham. diags Am Gas Assn Technical sec v 6:1155-60 '24

Report of the Semet-Solvay co., Syracuse, N.Y. R. L. Brown. il diags Am Gas Assn Technical sec v 6:1165-9 '24

Report of the U.G.I. contracting company, Philadelphia, Pa. J. H. Taussig. il Am Gas Assn Technical sec v 5:1020-5; v 6:1170-2 '23-'24

Report of the West gas improvement company, inc., New York. F. J. Kennedy. il diags Am Gas Assn Technical sec v 6:1173-9 '24

Report on water gas apparatus. W. E. Steinwedell and others. il diags Am Gas Assn Technical sec v 6:851-90 '24

Simple method of hydraulic main evacuation. Delahaye. diags Gas J (Lond) 171:494-5 Ag 26 '25

Smoot control of volumes supplied to water gas sets. il Am Gas J 123:476-7 O 17 '25

Some engineering problems of the gas industry. H. E. Bates. il W Soc E J 30:319-28 Jl '25

Turbo aspirators in gas works and coke oven plants. E. Blau. il Gas Age 56:607-8 O 24 '25

Two-ton horizontal gas oven plant at Quincy, Ill. V. Baker. diags Am Gas Assn Technical sec v 5:1015-20 '23

See also Coke separators; Gas boosters; Gas retorts

Management

Locating and reducing excessive use of boiler fuel in small gas plants. C. L. C. Kah. Am Gas J 121:1084-5+ O 18 '24

Modern drawing office: its place in the scheme of gas-works management. J. E. Ledingham. Gas J (Lond) 170:54-5; Discussion. 55-6 Ap 1 '25

Records

Standard forms for reporting water gas operating results. T: B. Hopper. Am Gas Assn Technical sec v 6:830-3 '24

Safety devices and measures

Accident prevention in gas industry. J. B. Douglas. Am Gas J 123:486+ O 24 '25

Preventing accident leaks in U.G.I. gas plants. G: E. Wallis. il Nat Safety N 8:15-16 N '23

Safe worker—successor to the "gas house terrier." J. E. Spindle. Gas Age 56:287+ Ag 29 '25; Same. Nat Safety N 12:29-30 Ag '25

Safety work in by-product plants. F. J. O'Malley. Am Gas J 119:617+, 637+, 657, 687; 120:34 D 8-29 '23, Ja 12 '24

Self inspection blank for gas plants. Am Gas Assn Accounting sec v 5:440-6 '23

Testing

Test on backrun device, station J, Detroit City gas company, July 12, 1923. Am Gas Assn Technical sec v 5:1026-38 '23

GAS works—*Continued*

Visitors

Hostess to 50,000 customers and friends in a week. il Gas Age 56:515-16 O 10 '25
Michigan makes a social call on its gas companies. A. Fischer. Gas Age 54:809-10+ D 6 '24
Mohammed goes to the mountain; students visit the Geneva, N.Y. plant. R. R. L. Macleod. il Gas Age 56:79-80 Jl 18 '25
Showing the coke user how his fuel is made. J. E. Bullard. il Gas Age 54:449-50 S 27 '24

GAS works, Municipal

Municipal plants unimportant in gas industry. Gas Age 53:281-2 Mr 8 '24; Excerpt. Pub Serv Management 36:74 Mr '24
New gas plant in operation at Clearwater, Florida. J. H. Bock. il Gas Age 55:737-8 My 23 '25
New Vienna municipal gas plant. A. Jaeger. il Gas Age 56:313-14 S 5 '25

GAS works and electric plants

Combining gas and electricity production. G. M. Gill. Elec R (Lond) 96:527-8 Ap 3 '25
Supply of electricity by the gas industry; abstracts. R. Gray. Elec R (Lond) 97:716-17 O 30 '25; Gas J (Lond) 172:104-5 O 14 '25

GASEOUS explosions. See Explosions

GASEOUS ionization. See Ionization, Gaseous

GASES

Absorption coefficient for slow electrons in gases. R. B. Brode. diags Phys R 25:636-44 My '25
Adsorption of gases by graphitic carbon. H. H. Lowry and S. O. Morgan. diag J Phys Chem 29:1105-15 S '25
Air-waves of finite amplitude. W. B. Morton. diags Philos Mag 6th ser 48:866-83 N '24
Atmospheric heat as a source of power. H. H. Platt. Sci Am 131:120 Ag '24
Calculation of gaseous equilibrium constants. S. W. Saunders. J Phys Chem 28:1151-66 N '24
Clouds and smokes. W: E: Gibbs. 240p Blakiston '24
Constitution of gaseous ions. J. J. Nolan. diags Phys R 24:16-30 Jl '24
Correction to Boyle's law for high-pressure gas. D. E. Silcox. il Mech Eng 47:897-900 N '25
Damping of torsional vibrations in air at reduced pressures. R. V. Wagner. diags Philos Mag 6th ser 48:847-59 N '24
Diameters of the atoms of the inert gases. J. E. Calthrop. Philos Mag 6th ser 48:79-81 Jl '24
Electric moment of gaseous molecules of halogen hydrides. C. T. Zahn. diags Phys R 24:400-17 O '24
Electrification of gases by surface combustion. J. Dickinson. bibliog diags Philos Mag 6th ser 50:225-41 Jl '25
Electrochemistry of gases. S. C. Lind. Am Electrochem Soc Trans v 44 (preprint 7): 61-9 S '23; Same. Brass W 20:101-3 Mr '24
Entrainment of air by a jet of gas issuing from a small orifice in a thin plate. J. S. G. Thomas. diags Philos Mag 6th ser 47: 1048-56 My '24
Entrainment of air by a jet of gas issuing from a small orifice in a thin plate. J. S. G. Thomas and E. V. Evans. diag Philos Mag 6th ser 46:785-801 N '23; Abstract. Gas J (Lond) 164:639-40 D 5 '23
Equilibrium pressures of individual gases in mixtures and the mass-action law for gases. L: J. Gillespie. Am Chem Soc J 47:305-12 F '25
Esterification equilibria in the gaseous phase. G. Edgar and W: H. Schuyler. diag Am Chem Soc J 46:64-75 Ja '24
Gas kinetics. S. C. Lind. J Phys Chem 28: 55-8 Ja '24
Gases in metals. Engineer 139:sup 82 Je 26 '25
Graphische behandlung der einfachen gasgesetze. B. Eck and E. Kayser. diags Zeit Ver Deutsch Ing 69:871-5 Je 27 '25
How gases and vapors match up. diag Power 62:583 O 13 '25
Impact experiments in compound gases; ammonia. A. T. Waldie. diags J Fr Inst 200: 507-18 O '25
Influence of gases at high temperatures upon iron, with special reference to the formation of blowholes. A. G. Lobley and C. L. Betts. diag Iron & Steel Inst J 111:215-24, pl 28-30 no 1 '25; Same. Engineering 119:591-2 My 8 '25; Abstract. Engineer 139:540-1 My 15 '25; Discussion. Iron & Steel Inst J 111:225-30 no 1 '25; Engineering 119:598 My 15 '25
Ionization, excitation, and dissociation of gases. A. L. Hughes. Philos Mag 6th ser 48:56-64 Jl '24
Metals in the gaseous state. C. H. M. Jenkins. Engineer 140:sup106-9, sup115-18 Jl 31-Ag 28 '25
Mobilities of electrons in gases. K. T. Compton. Phys R 22:432-44 N '23
Mobility in air of ions produced in another gas. G. C. Grindley and A. M. Tyndall. diag Philos Mag 6th ser 48:711-19 O '24
Motion of electrons in gases. V. A. Bailey. Philos Mag 6th ser 46:213-18, 1090-1 Jl, D '23
Motion of electrons in gases. J. S. Townsend. J Fr Inst 200:563-90 N '25
Motions of electrons in gases and the formation of negative ions in air. L. B. Loeb. Philos Mag 6th ser 46:1088-9 D '23
New phenomenon in the diamagnetism of gases. A. Glaser. J Fr Inst 199:261-2 F '25
Non-condensable gases. B. E. Hill. diag Refrig Eng 10:372-5 Ap '24
Pressure effect and other phenomena in gaseous discharges. I. Langmuir. bibliog J Fr Inst 196:751-62 D '23
Properties of gases in high and low vacua. E. Rutherford. Engineering 117:330, 365-6, 387, 429 Mr 14-Ap 4 '24; Abstract. Electrician 92:450-1 Ap 11 '24
Radiation from nonluminous flames. R. T. Haslam, W. G. Lovell and R. D. Hunneman. diag Ind & Eng Chem 17:272-7 Mr '25
Radiation given out by gases through which electric discharges are passing. J. J. Thomson. diags Philos Mag 6th ser 49:761-86 My '25
Recombination of gaseous ions, the chemical combination of gases, and monomolecular reactions. J. J. Thomson. diags Philos Mag 6th ser 47:337-78 F '24
Review of the critical constants of various gases. S. F. Pickering. J Phys Chem 28: 97-124 F '24
Study of direct-current corona in various gases. F. W. Lee and B. Kurrelmeyer. bibliog diags Am Inst E E J 44:16-23 Ja '25; Discussion. 44:628 Je '25
Supersaturation of gases in liquids. F. B. Kenrick, K. L. Wismer and K. S. Wyatt. diags J Phys Chem 28:1308-15 D '24
Supersaturation of gases in water and certain organic liquids. J: Metschl. diags J Phys Chem 28:417-37 My '24
Theory of gas absorption in counter current apparatus. E. M. Baker. Am Inst Chem Eng Trans v 15 pt 1:195-216 [bibliog. p. 212-16] '23
Two heterogeneous gas reactions. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 123:2725-9 N '23

See also Absorption; Absorption towers; Acetylene; Adsorption; Aerodynamics; Air; Air bubbles; Argon; Blast furnace gas; Chemistry; Chlorine; Coke-oven gas; Compression of gases; Dew points; Electric discharges; Firedamp; Flue gas; Fluids; Fumes; Acid; Gas; Gas analysis; Gas flow; Helium; Hydrogen; Inflammable mixtures; Ionization; Ionization, Gaseous; Joule-Thomson effect; Mine gases; Mol (term); Neon; Nitrogen; Oxygen; Ozone; Slip (gases); Vapor pressure; Vaporization; Water vapor

Ignition

Expulsion of gases; abstracts. W. T. David. Engineering 120:284-6 S 4 '25; Engineer 140: 271 S 11 '25; Chem Age (Lond) 13:246 S 5 '25

GASES—Ignition—*Continued*
Ignition of gases. H. B. Dixon. Engineering 120:284 S 4 '25; Same. Soc Auto Eng J 17: 397 O '25; Abstracts. Chem Age (Lond) 13: 246 S 5 '25; Engineer 140:271 S 11 '25
Ignition of gases; ignition by a heated surface—mixtures of the paraffins with air. W. Mason and R: V. Wheeler. Chem Soc J 125:1869-75 S '24
Ignition of gases; ignition by the impulsive electrical discharge—mixtures of the paraffins with air. R: V. Wheeler. Chem Soc J 125:1858-69 S '24
Thermal theory of gas ignition by electric sparks. J. D. Morgan. Philos Mag 6th ser 49:323-36 F '25
See also Inflammable mixtures

Liquefaction

Purification and liquefaction of chlorine. diag Chem Age 31:495-6 N '23
See also Chlorine, Liquid; Helium, Liquid; Hydrogen, Liquid; Liquid air; Oxygen, Liquid

Occlusion

Partly killed simple steels. H: D. Hibbard. Iron Age 114:565+, 631-3 S 4-11 '24

Temperature

Measurement of the temperature of a flowing gas. R. T. Haslam and E. L. Chappell. Ind & Eng Chem 17:402-8 Ap '25
Specific heats of gases. J. R. Partington and W. G. Shilling. 252p [bibliog. p. 243-9] Van Nostrand '24
Temperature dependency of the molecular heats of gases, especially of ammonia, methane, and hydrogen, at low temperatures. F. A. Giacomini. diags Philos Mag 6th ser 50:146-56 Jl '25

GASES, Asphyxiating and poisonous
Gas hazards in street manholes. S. H. Katz, E. G. Meiter and J. J. Bloomfield. U S Bur Mines Rep of Invest 2710:1-20 O '25 (typew)
Investigation of toxic gases from Mexican and other high-sulphur petroleums and products. R. R. Sayers and others. il diags U S Bur Mines Bul 231:1-108, pl 1-17 '25
Medical aspects of chemical warfare. E: B. Vedder. 327p Williams & Wilkins co., Baltimore '25
Observations in blast-furnace gassing. R. C. Engel. J Ind Hygiene 7:122-3 Mr '25
Poisonous gases from explosives. C. D. Pratt. Min Cong J 11:395-7 Ag '25
Researches on thiazoles; a new group of dyes from poison gases through the 2-aminothiazoles as intermediates—the preparation of thiazole dyes of Doebner violet type. M. T. Bogert and M. Chertcoff. Am Chem Soc J 46: 2864-71 D '24
Riddle of the Rhine. V: Lefebure. 282p Dutton '23; Review. Comm & Fin Chr 120:501-2 Ja 31 '25
Sur l'emploi du réactif iodicosulfurique pour la protection contre l'oxyde de carbone et autres gaz toxiques. Guillemard and A. Lührmann. diags Chimie & Ind 14:29-32 Jl '25
See also Arsine; Carbon monoxide; Firedamp; Gas masks; Hydrogen sulfide; Mine gases; Mustard gas

GASES, Compressed
Molecular association of liquids and highly-compressed gases. E. E. Walker. Philos Mag 6th ser 47:111-26 Ja '24

Safety devices and measures

Caution in using compressed gas cylinders. Chemicals (Dyestuffs sec) 17:100 O 12 '25
Proposed regulation for the installation and operation of compressed gas systems other than acetylene for house lighting and cooking. Safety Eng 48:37-8 Jl '24
Safe handling and use of compressed gas cylinders. il Nat Safety N 11:25-7 My '25

GASES, Irritant
Action of irritant gases upon the respiratory tract. H. W. Haggard. J Ind Hygiene 5: 390-8 F '24; Abstract. Monthly Labor R 18: 845-9 Ap '24

GASES, Kinetic theory of
Elements of the kinetic theory of gases. Engineering 120:1-3, 63-4, 125-7, 190-2, 251-2 Jl 3, 17, 31, Ag 14, 28 '25
Kinetic theory of gases. E. Bloch. 178p [bibliog. p. 176-8] Dutton '24
Kinetic theory of viscosity, conduction, and diffusion. S. Chapman and W. Hainsworth. Philos Mag 6th ser 48:593-607 S '24
Resistance experienced by spheres in their motion through gases. P. S. Epstein. Phys R 23:710-33 Je '24
Rotation in a rarefied gas from the point of view of the kinetic theory. G. Breit. diags Phys R 23:608-16 My '24
Treatment of radiation-pressure and gas-pressure as due to inter-molecular forces. J: Q. Stewart. Phys R 26:491-4 O '25
Van der Waals memorial lecture. J. H. Jeans. Chem Soc J 123:3398-3414 D '23; Abstract. Soc Chem Ind J (Chem & Ind) 42:1105-6 N 16 '23

GASKETS
Alden turbine-condenser expansion gasket. diags Power 60:705-6 O 28 '24
Cut and draw die for gasket ring. F. Martindell. diag Mach 31:529 Mr '25
Making copper wire gaskets. G. G. McVicker. diag Power 62:61-2 Jl 14 '25
Piping materials, valves and gaskets for high pressures and temperatures. J: D. Morgan. Power 59:907-8 Je 3 '24; Discussion. H. D. Fisher. 59:1039 Je 24 '24
Proper application of gaskets. H. Bohmer. Power 60:300 Ag 19 '24
Steam chest cover gasket former. il diags Ry R 74:124-5 Ja 12 '24
Stopping a turbine steam chest leak by special gasket. C: E. Colborn. diags Power 61: 997 Je 23 '25

GASOLINE
Better gasoline this year. Pet Age 14:26+ O 1 '24
Characteristics of gasoline on the Canadian market. P. V. Rosewarne. Can Chem & Met 8:59-61 Mr '24
Detonation of gasoline and liquid chlorine mixtures. B: T. Brooks. il diag Ind & Eng Chem 17:752-3 Jl '25
Do you "know" gasoline? B. F. Ruby. Pet Age 15:24-5 F 1 '25
Equilibrium vaporization of gasoline. R. Stevenson and H. J. Stark. il diags Ind & Eng Chem 17:679-85 Jl '25
Gas, better or worse. J: B. Rathbun. Pet Age 15:14+ F 15 '25
Gas masks for gasoline and petroleum vapors. S. H. Katz and J. J. Bloomfield. diags U S Bur Mines Tech Pa 348:1-37, pl 1-8 '24
Gasoline survey shows trend away from uniformity. Automotive Ind 49:1208 D 13 '23
Gasoline today best ever. Pet Age 15:13-14 Mr 1 '25
Gasoline; what everyone should know about it. T. A. Boyd. 211p Stokes '25; Review. Automotive Ind 53:334-5 Ag 27 '25
General properties. Pet Age 15:67+ Mr 15 '25
High vs. low test gasoline. J: B. Rathbun. Pet Age 14:56+ Jl 15 '24
Measurement of vapor tension of gasoline and other liquids. H. S. Davis. diag Ind & Eng Chem 17:1136-8 N '25
Oil industry faces trouble if it sells fake gasoline tonics. P. Truesdell. il Nat Pet N 16:17+ Mr 19 '24
Our position and our recommendation to oil industry on gasoline tonics. W. C. Platt. Nat Pet N 16:33-4 S 3 '24
Petroleum motor fuel. K. G. Mackenzie. Ind & Eng Chem 17:1105-14 N '25; Abstract. Pet Age 16:22+ N 1 '25
Physical properties of gasoline. J. B. Rathbun. Pet Age 13:77 My 1 '24
Quality of gasoline shows slight improvement. Automotive Ind 51:647 O 9 '24
Reclamation of gasoline used in dry cleaning. C. C. Hubbard. diags U S Bur Stand Tech Pa 280:141-53 '25
Sinclair offers new fuel. A. D. Pitney. Pet Age 15:21-2 Je 15 '25

GASOLINE—*Continued*
Solubility of gasoline (hexane and heptane) in water at 25° C. L. H. Milligan. diag J Phys Chem 28:494-7 My '24
Tenth semi-annual motor gasoline survey. N. F. LeJeune and B. A. Landry. U S Bur Mines Rep of Invest 2636:1-11 S '24 (typew)
University studies gasoline. E. H. Leslie. Pet Age 14:38-9 Jl 1 '24
Use of Koehler safety lamp in testing tanks for combustible gases or vapors. R. E. Wilson and R. E. Wilkin. il Ind & Eng Chem 16:1154-6 N '24
Vapor pressures of gasolines and light petroleum naphthas. F. H. Rhodes and E. B. McConnell. diag Ind & Eng Chem 15:1273-5 D '23
What is good gasoline? G. K. Burgess. Am Pet Inst Bul 4:120-1 D 31 '23

See also Automobile engines—Fuel; Boyce-ite; Gas and oil engines—Fuel; Gasoline industry; Motor truck engines—Fuel; Petroleum refining

Analysis

Composition of natural gas gasoline. R. P. Anderson and A. M. Erskine. Ind & Eng Chem 16:263-7 Mr '24
Convenient method for determining gum-forming material in gasoline. M. B. Cooke. plan U S Bur Mines Rep of Invest 2686:1-4 My '25 (typew)
Iodine values of cracked gasolines. A. B. Miskin. bibliog Inst Pet Tech J 10:297-302; Discussion. 302-5 Je '24

Color

Dye used to make premium gasoline distinctive; ads put it over. R. B. Stafford. Nat Pet N 17:55-6 F 25 '25
Two ways in which government can help refining efficiency. P. Truesdell. Nat Pet N 17: 85+ F 25 '25
Volatile yellow coloring matter in cracked gasolines. B. T. Brooks and H. O. Parker. Ind & Eng Chem 16:587-8 Je '24; Same. Pet Age 14:42-3 Jl 1 '24

Ethyl mixtures

Details of ethyl gas marketing plans are announced. J. E. Schipper. Automotive Ind 50:624-6 Mr 13 '24
Ethyl gas danger slight, tests show. Automotive Ind 52:207 Ja 29 '25
Ethyl gas exhaust fumes harmless, Bureau of mines reports. Nat Pet N 16:25-6+ N 5 '24; Excerpts. Chem & Met Eng 31:713 N 3 '24; Excerpts. Oil Paint & Drug Rep 106:19+ N 3 '24
Ethyl gasoline. T: Midgely, jr. Am Pet Inst Bul 5:136-8 D 31 '24
Ethyl gasoline corp. stops sale of product. Oil Paint & Drug Rep 107:21 My 11 '25; Pet Age 15:21 My 15 '25
Ethyl gasoline probe shows diverse views. Oil Paint & Drug Rep 107:21 My 25 '25
Ethylized gasoline non-poisonous; abstracts. T: Midgley, jr. Soc Auto Eng J 15:476-8 D '24; Nat Pet N 16:55-6 D 10 '24
Exhaust gases from engines using ethyl gasoline. R. R. Sayers and others. U S Bur Mines Rep of Invest 2661:1-24 D '24 (typew): Excerpt. Econ W n s 29:98-9 Ja 17 '25
Facts about ethyl gas and tetra-ethyl-lead. Nat Safety N 11:38 Ja '25
French experiment with tetra ethyl lead. Automotive Ind 51:445 S 4 '24
Fresh light on ethyl gas. L. J. Livshis. Pet Age 14:13-14 N 1 '24
Hazard in handling tetraethyl lead and ethyl gasoline. Safety Eng 48:199-200 N '24
Knockless gasoline. Sci Am 130:122 F '24
No danger of lead poisoning from ethyl gasoline. Chem & Met Eng 32:46 Ja 12 '25
Progress of anti-knock fuels. T: Midgley, jr. Am Pet Inst Bul 4:141-2 D 31 '23
Ship fitted out to extract bromine from sea water for ethyl gas. il Automotive Ind 52: 792-3 Ap 30 '25
Stop tetra-ethyl lead distribution pending conference on hazard. P. Truesdell. Nat Pet N 17:17-18 My 6 '25
Tetraethyl lead poison hazards. T: Midgley, jr. Ind & Eng Chem 17:827-8 Ag '25; Same. Chem Age (Lond) 13:197-8 Ag 22 '25
Tetra ethyl lead sales are suspended until committee investigates. Nat Pet N 17:37 My 27 '25
What ethyl gas really does. J: B. Rathbun. Pet Age 13:62-3 Je 1 '24

See also Tetraethyl lead

Evaporation losses

Balloons to save millions. Pet Age 16:19 Ag 1 '25
Evaporation loss from storage tanks saved with gas balloons. W. K. Halbert. il Nat Pet N 17:21-3 Je 3 '25
Evaporation's daily toll. J. B. Rathbun. Pet Age 15:17+ Ja 15 '25
Petrol losses in bulk storage. Engineering 117: 82-3 Ja 18 '24
Prevention of evaporation losses from gasoline storage tanks. R. E. Wilson and others. il Ind & Eng Chem 17:1030-5 O '25
Rate of evaporation loss from gasoline storage tanks. J: B. Rathbun. Pet Age 13:63-4 Je 1 '24
Why evaporation losses? J. B. Rathbun. Pet Age 13:70+ Mr 1 '24

Manufacture

Catalytic treatment of cracked distillates in the vapor phase. T. T. Gray and M. R. Mandelbaum. flow sheet diag Ind & Eng Chem 16:913-16 S '24
Cracking gets big boon; Thomas T. Gray invents new catalytic process. diag Pet Age 14:50+ D 15 '24
Cross oil-cracking plant. diags Engineering 119:247-9, 312-16, 324, pl 15-17, 19 F 27, Mr 13 '25
Facts and fakes among cracking processes. R. H. Brownlee. il Chem & Met Eng 31: 737-41 N 10 '24
Gasoline from shale. Pet Age 14:60 O 15 '24
Gasoline from still and tank vapors soon pays for recovery plant. B. B. Stroud. diag Nat Pet N 17:38-40 Ap 29 '25
Gulf brings out anti-knock fuel direct from crude; No-Nox. Nat Pet N 17:28 Jl 15 '25
How and why of gasoline. T. A. Boyd. Pet Age 15:22+ My 1 '25
Installation de cracking, suivant le procédé Cross, de la Medway oil and storage co. (Isle of Grain) (Kent, Angleterre). il diags plan Génie Civil 86:600-5 Je 20 '25
Jenkins process, improved by refiners, makes water white gasoline. P. Truesdell. diag Nat Pet N 17:72-3+ Mr 4 '25
Leamon announces process to make anti-knock gasoline direct from crude. P. Truesdell. Nat Pet N 17:25-8 Jl 15 '25
Making evaporation an ally; interview with C. P. Buck. Pet Age 13:18-19+ Ja 1; 23-4 Ja 15 '24
Manufacture of gasoline by the cracking of heavier oils. C. M. Johnson. Mech Eng 46: 879-85 D '24
Modern oil-cracking methods. H. L. Debar. Mech Eng 47:11-12 Ja '25
Novel features included in Rainbow Bend gasoline plant just built. J. C. Chatfield. il Nat Pet N 17:98-9 My 27 '25
Operating a modern cracking plant; Dubbs oil-cracking process. J. C. Morrell. flow chart il Chem & Met Eng 31:1006-10 D 29 '24
Preliminary summary in study of gasoline yield from three crude oils by three different methods. Am Soc T M Pro 24 pt 1: 567 '24
Problems in the refining of cracked distillates. J. C. Morrell. Chem & Met Eng 30:785-7 My 19 '24
Recovery of gasoline from uncondensed still vapors. D. B. Dow. U S Bur Mines Tech Pa 310:1-53, pl 1-10 '23; Excerpt. Nat Pet N 16:53-4+ F 13 '24
Refrigeration in the manufacture of gasoline. H. J. Macintire. Power 59:464-5 Mr 18 '24
Safety in gasoline manufacture a matter of educating workmen. C. L. Swim. Nat Pet N 17:77+ My 6 '25

GASOLINE—Manufacture—*Continued*
Synthetic liquid fuel. Engineering 119:303-4 Mr 6 '25
Treating pressure distillate with clay works at Barnsdall plant. P. Truesdell. il diag Nat Pet N 17:23-5 F 11 '25
Vapor phase refining of gasoline. D. M. Liddell. il diag Chem & Met Eng 31:975-6 D 22 '24

See also Gasoline, Natural gas—Manufacture; Petroleum distillation; Petroleum refining

Natural gas processes

See Gasoline, Natural gas

Patents

See Petroleum refining—Patents

Price cutting

Costly price war creeping northward from southern Indiana. W. K. Halbert. Nat Pet N 17:35-6 O 28 '25
Larkin cause of price war in Illinois. W. K. Halbert. il plan Nat Pet N 17:41-3 Je 24 '25
Larkin has many imitators selling cut rate gasoline at Buffalo. R. B. Stafford. Nat Pet N 17:85+ Jl 8 '25
Massachusetts commission urges public to seek cut-price gasoline. V. B. Guthrie. Nat Pet N 17:39-42 S 16 '25
Mystery filling station thrives in Omaha on 13 cent price. W. K. Halbert. Nat Pet N 16:29-30 Je 18; 71+ Ag 27 '24
Ohio jobbers relate price cutting troubles. R. B. Stafford. Nat Pet N 16:30G-H D 10 '24
Reo defends ancient gasoline rebating plan but quits brokering motor oil. W. K. Halbert. Nat Pet N 17:39-40 Jl 15 '25
Soap factory sells gasoline and lubes cut price from its back yard; Larkin co.'s cut price gasoline station at Buffalo, N.Y. R. B. Stafford. il Nat Pet N 17:40-1 Je 24 '25
Sues big companies to stop selling gasoline below cost. Nat Pet N 16:25 Ja 9 '24
Uncle Sam's station sells cut-price gasoline to army officers. A. E. Heiss. Nat Pet N 17: 35-6 Jl 1 '25

Price publicity

Secret prices become unlawful in Wisconsin May 4. Nat Pet N 17:22 Ap 22 '25
Wisconsin jobbers find no hardship under price publicity rule. W. K. Halbert. Nat Pet N 17:56-8 Je 17 '25

Prices

Adjustment period is here; cut in tank wagon prices past two weeks is step in right direction. H. G. James. Pet Age 14:23-4 O 1 '24
Advantages under marginal contracts vary widely in different cities. R. B. Stafford. Nat Pet N 16:38-41 N 12 '24
All crude production and storage stock records fall, but prices advance. P. Wagner. Nat Pet N 17:25-6 My 27 '25
Basis of gasoline price rise explained. A. C. Bedford. Bus Transportation 4:157 Mr '25
Bryan may take gas war thru campaign. W. K. Halbert. il Nat Pet N 16:20-1+ Ag 20 '24
Bucking industry's biggest price war and making it pay; C. H. Armould, Hamilton, Ill. W. K. Halbert. Nat Pet N 16:69-70 D 3 '24
Comment on gasoline price structure. Nat Pet N 16:85+ N 19 '24
Competition sets gasoline price, says New Jersey Standard. Nat Pet N 17:29-30 My 6 '25
Cost plus plan for gasoline prices urged on Texas independents. P. Wagner. Nat Pet N 17:33-4 O 28 '25
Cut-rate gasoline stations welcomed by grateful Omaha folk. W. K. Halbert. il Nat Pet N 16:51+ My 28 '24
Debate jobbers' policy towards widening margins; open forum discussion at N.P.M.A. Nat Pet N 17:60+ Ap 15 '25
Discount for volume deliveries in effect in Chicago. Nat Pet N 16:17-18 Mr 12 '24
Distribution of gasoline and methods of price control. H. Thompson. Ann Am Acad 116:89-95 N '24
Do not anticipated future costs determine gasoline prices? W. T. Holliday. Nat Pet N 16:67+ Je 25 '24
Gasoline price average. Moody's Inv Serv 17: 68 F 19 '25
Gasoline prices stable. Pet Age 15:27+ Ap 15 '25
Georgia court dissolves injunction fixing price of gasoline. Nat Pet N 17:56 Ap 1 '25
Georgia court orders oil companies not to raise price of gasoline. R. B. Stafford. Nat Pet N 17:30-1 Mr 11 '25
Great variance in retail gasoline prices if actual sales costs were followed. W. F: Suender. il Nat Pet N 17:79-80 S 2 '25
Making of oil prices. Economist 98:1244-5 Je 21 '24
Municipal oil business is threatened by Chicago city officials. W. K. Halbert. Nat Pet N 16: 29+ Jl 9 '24
Price of gasoline is too low. A. C. Bedford. il Nation's Business 12:18-19 F '24
Readjustment is narrowing the margin between crude and retail prices. V. B. Guthrie. Nat Pet N 16:41-2 O 8 '24
Recognize principle of price differential to quantity purchasers; Standard oil co. of Indiana prices. W. K. Halbert. Nat Pet N 17:31-2 Jl 8 '25
Refinery and tank wagon markets. Published in weekly numbers of National petroleum news
Relation of crude price to output over 3 years. A. F. Hinton. Nat Pet N 16:28 N 19 '24
Run state stations in South Dakota 30 days to learn actual operating costs. W. K. Halbert. Nat Pet N 17:23 Ap 22 '25
Shall we establish fair price basis or let state fix margin? H. F. Brownwell. Nat Pet N 16:53-6 Ap 16 '24
South Dakota solons pass a law regulating oil prices. W. K. Halbert. Nat Pet N 17:95-6 Mr 25 '25
Standard of Indiana, New Jersey and Nebraska cut gasoline. Nat Pet N 17:26 Ag 26 '25
Standard of Indiana now gives discounts. Pet Age 16:20-1 Jl 15 '25
Standard's quantity discount system met by all competitors. W. K. Halbert. Nat Pet N 17:33-7 O 14 '25
Tank wagon and service station prices. Published in weekly numbers of Oil paint and drug reporter
30-day test of state oil stations ends political enterprise. W. K. Halbert. Nat Pet N 17:34-5 My 27 '25
Why the oil markets have advanced. W. C. Platt. Nat Pet N 17:27-8 F 11 '25
World gasoline prices exceed those in U.S. Nat Pet N 17:32 Ja 21 '25

Specifications

Fire prevention, safety, and raising of end-point discussed at W. P. R. A. meeting. Nat Pet N 17:36-7 Mr 11 '25
Government board approves changes in federal specifications. Nat Pet N 16:81+ F 13 '24
Laws and still more laws. R. R. Moore. Pet Age 15:29 Mr 15 '25
Limitations of end point specification for gasoline. R. O. Neal and H. B. Neal. Nat Pet N 16:123+ Ap 16 '24
Refiners ask four-degree end point raise of U.S. motor gasoline. P. Truesdell. Nat Pet N 16:59+ D 31 '24

Storage

See Gasoline storage

Taxation

Are state highway programs on a sound financial basis. H: R. Trumbower. maps Good Roads 68:50-3 F '25; Same. Eng & Contr (R & S) 63:241-8 F 4 '25

GASOLINE—Taxation—*Continued*
Automobile registration, fees and gas tax. Eng & Contr (R & S) 63:1243 Je 3 '25
Case for and against the gasoline tax. Eng & Contr (R & S) 64:3 Jl 1 '25
Constitutionality of motor vehicle license fees and the gasoline tax. H: R. Trumbower. Pub Roads 5:7-10+ N '24
Digest of state laws taxing motor fuels. Nat Pet N 16:59-60 O 8 '24
$80,000,000 collected in 35 states in 1924 as tax on gasoline. R. B. Stafford. map Nat Pet N 17:56+ Ap 8 '25
Gas tax now effective in 44 states. Munic & Co Eng 69:168 S '25; Same. Good Roads 68: 258 O '25
Gasoline tax adopted by majority of states. Automotive Ind 52:206 Ja 29 '25
Gasoline tax in Delaware. Eng & Contr (R & S) 64:26 Jl 1 '25
Gasoline tax in 1924. Eng & Contr (R & S) 63:1199 Je 3 '25
Gasoline tax—1924 and after. J. P. Taylor. map Good Roads 68:17-20+ Ja '25
Gasoline tax receipts double within year. map Bus Transportation 4:216-18 My '25
Gasoline tax spreads. Pet Age 14:18+ O 15 '24
Gasoline taxes. Pub Works 55:254 Ag '24
Gasoline taxes, 1923. Pub Roads 5:17 Ap '24; Eng & Contr (R & S) 61:1016 My 7 '24
Gasoline taxes and motor vehicle fees. Eng & Contr (R & S) 62:1230 D 3 '24
Gasoline taxes collected by the states in the first half of 1925. Econ W n s 30:523 O 10 '25
Grand tax offensive on gasoline begun by many legislatures. Nat Pet N 17:28+ Ja 28 '25
Highway income from the motor vehicle. H: R. Trumbower. Pub Roads 5:15-22 Ja '25
How the gasoline tax is working out. J. W. Martin. Automotive Ind 51:923 N 27 '24
Illinois jobbers prepare to battle against 2-cent road tax. W. K. Halbert. Nat Pet N 16:89+ D 24 '24
Laws and still more laws. R. R. Moore. Pet Age 15:29 Mr 15 '25
Motor vehicle fees and gasoline taxes. H: R. Trumbower. Pub Roads 5:1-9+ S '24
Motorists goosestep for tax collector paying all sorts of levies. A. E. Heiss. Nat Pet N 17:84+ Ag 19 '25
Motorists pay $80,000,000 in gas tax. Pet Age 15:57 Ap 15 '25
Nebraska jobbers do not protest against 2-cent road tax. Nat Pet N 16:28 D 24 '24
Need for uniformity in state gasoline tax laws; discussion at N.P.M.A. meeting. Nat Pet N 17:71-2+ Ap 15 '25
New Jersey gasoline tax plan opposed. Automotive Ind 52:248 F 5 '25
Ohio jobbers fight profit sappers; learn quirks in gasoline tax. R. B. Stafford. Nat Pet N 17:34-5+ My 20 '25
Ohio jobbers pitch into gas tax fight as assembly is deadlocked. Nat Pet N 17:35-6 Mr 4 '25
Ohio legislators are told gasoline tax opposes spirit of times. H. B. Fuller. Nat Pet N 17: 28 Ja 28 '25
Sources of funds for highway purposes. H: R. Trumbower. Pub Works 55:367-71 D '24
State gasoline taxes. E. P. Learned. Kansas U Bul v 26, no 6:1-94 [bibliog. p. 89-94] '25
States work toward uniformity in 1925 legislation. R. Huffman. Automotive Ind 52:967-9+ Je 4 '25
Study of the gasoline tax movement. J. P. Taylor. map Good Roads 65:185-8 D 5 '23
Taxation of gasoline is growing in weight and popularity. J. W. Martin. Nat Pet N 16: 51-2+ F 6 '24
20 states consider new or higher taxes on gasoline. J. C. Chatfield. Nat Pet N 17:22 F 18 '25
What car owners should pay for road building. A. R. Hirst. Eng N 91:967-8 D 13 '23
Where the gasoline tax proceeds go! laws leave chance to waste. R. B. Stafford. Nat Pet N 16:53+ Ap 2 '24

Testing
Eleventh semi-annual motor gasoline survey. A. J. Kraemer and H. M. Thorne. U S Bur Mines Rep of Invest 2675:1-3 Mr '25 (typew)
Improves gasoline testing. B. F. Ruby. Pet Age 15:23 Mr 15 '25
Initial boiling point. P. Truesdell. Nat Pet N 15:33I-J D 19 '23
Purification of brine for ammonia soda process. Chem & Met Eng 30:24 Ja 7 '24
Sodium plumbite or doctor test of gasolines. B. T. Brooks. Ind & Eng Chem 16:588 Je '24
Weighted index number for motor fuels. W. A. Gruse. Chem & Met Eng 29:970-1 N 26 '23; Discussion. L: Weisberg. 29:1067-8 D 10 '23

Transportation
Committee recommends present testing method for testing vapor tension of natural gasoline for shipment in tank cars. Nat Pet N 17:107+ My 27 '25
Orders gasoline rate cut based on complaint of auto clubs. Nat Pet N 16:31 O 22 '24
Report of investigations on methods of determining the vapor pressure of gasoline for transportation classification. H. L. Shoemaker. Am Pet Inst Bul 5:99-104 D 31 '24; Same cond. Nat Pet N 17:87-8+ Ja 14 '25; Discussion. Am Pet Inst Bul 5:104-7 D 31 '24
Would leave rate groups as at present and adjust gasoline rates. A. E. Heiss. Nat Pet N 17:30-1 S 9 '25

See also Gasoline pipe lines; Tank cars; Tank trucks

Volatility
Dew points of gasoline-air mixtures. D. P. Barnard and R. E. Wilson. Ind & Eng Chem 17:428-9 Ap '25
Economic motor-fuel volatility. R. Birdsell. il Soc Auto Eng J 14:267-73 Mr '24
Economic motor-fuel volatility; report prepared by S. W. Sparrow, presented by H. C. Dickinson. Am Pet Inst Bul 4:121-31 D 31 '23
Method of expressing the volatility of motor fuel gasolines. W. A. Gruse. Nat Pet N 15: 55-6 N 28 '23
Research to determine fuel needs. Soc Auto Eng J 17:416-17 N '25
What do they mean, gasoline is getting less volatile? Nat Pet N 16:109+ N 26 '24

GASOLINE, Natural gas
Composition of natural gas gasoline. R. P. Anderson and A. M. Erskine. Ind & Eng Chem 16:263-7 Mr '24
High output in 1924. D. B. Dow. Pet Age 13: 80-1 My 1 '24
How natural gasoline association has stabilized the industry. J. C. Chatfield. Nat Pet N 17:25-6 Ap 8 '25
How to make industry pay. I. P. Parkhurst. Pet Age 13:80 My 1 '24
More stable natural gasoline coming, is talk at convention. J. C. Chatfield. Nat Pet N 15: 20-2 N 21 '23
Natural gasoline—how to use it and how not to abuse it. D. E. Buchanan. Nat Pet N 16:83+ D 3 '24
Natural gasoline industry questions royalty on stabilizing. P. Truesdell. Nat Pet N 16:30+ Je 25 '24
Natural gasoline storage is low and demand holding strong. J. C. Chatfield. Nat Pet N 17:29+ Je 3 '25
Natural gasoline, testing, manufacturing and properties. G: G. Oberfell and R. C. Alden. 533p [bibliog. p. 509-25] W. B. Conkey co., Chicago '24
Rate of gas decline in Burbank studied by gasoline plants. J. C. Chatfield. Nat Pet N 15:41+ N 14 '23
Ratio of output of natural to refinery gasoline expected to decline. J. C. Chatfield. Nat Pet N 17:29-30 N 4 '25
Schedule adds two stabilized grades of natural gasoline. Nat Pet N 16:40 O 1 '24

GASOLINE, Natural gas—*Continued*
Shows need for current data on natural gasoline. A. V. Bourque. Nat Pet N 15:23+ N 21 '23
Use of natural gasoline in straight-run refinery. H. R. Noble. Nat Pet N 15:24 N 21 '23; Same. Pet Age 13:52 Ja 1 '24

See also Association of natural gasoline manufacturers

Manufacture

Application of refrigeration processes to the production of natural gasoline. E. F. Burton. diags Refrig Eng 11:83-90 S '24
Charcoal absorption plant set up in 8 days making money from gas of one well. J. C. Chatfield. il Nat Pet N 17:63-4+ Ag 12 '25
Devises method for checking operation of natural gasoline plants. P. Truesdell. il plan Nat Pet N 17:63-4+ Jl 8 '25
Do not connect chlorine cylinder with treating system. B: T. Brooks. diag Nat Pet N 17:115+ Ap 15 '25
Engineering increases capacity of gasoline plant at minimum cost. J. C. Chatfield. il Nat Pet N 17:36+ Ag 19 '25
Evaporating and dephlegmating casing-head gasoline. il Chem & Met Eng 32:498 My '25
Expansion of Gasser's natural pressure used for gasoline recovery. P. Wagner. il Nat Pet N 17:29-30 Jl 22 '25
Methods of making natural gasoline compared. D. E. Foster. Nat Pet N 16:88-9+ My 7 '24
Natural gasoline color affected by compressor lubrication. O: Peters. Nat Pet N 16:27-8 Ag 6 '24
Natural gasoline—its place in the straight run refinery. W. K. Holmes. Nat Pet N 16:64+ Ap 23 '24
Natural gasoline plant equipment is feature of exposition. J. C. Chatfield. Nat Pet N 17: 22 O 7 '25
Operators talk gasoline plant problems at association field conference. J. C. Chatfield. Nat Pet N 16:32a+ Jl 2 '24
Pioneer in natural gasoline industry tells of earlier practises. J. C. Chatfield. il Nat Pet N 17:64+ S 30 '25
Recovery of gasoline from natural gas. G: A. Burrell. 600p Chemical catalog co. '25; Review, by W. B. Davidson. Gas J (Lond) 171:391 Ag 12 '25
Role of natural gasoline. T. A. Boyd. Pet Age 15:31+ Je 1 '25
Savings effected by use of stabilizer in natural gasoline plants. L. E. Bayer. il Nat Pet N 16:24-9 Ap 30 '24
Simple apparatus and method of testing gas for air content. H. W. Young and W. S. Hanna. diags Nat Pet N 17:98-9+ S 16 '25
Sure supply of good water most vital to natural gasoline plant. E. Kaye. Nat Pet N 17:40G-J Ap 29 '25
Tests show how to figure residue gas percentage in gasoline plants. L. F. Bayer. Nat Pet N 17:40D-F Ap 29 '25
Tests show short range absorption oil more efficient than long range. A. F. Maxon. Nat Pet N 17:76+ My 20 '25
Treating methods used in sweetening of natural gasoline. W. G. Hiatt. diags Nat Pet N 17:26-9 Ap 22 '25
What is accomplished by modern heat exchange equipment. G: A. Burrell. Chem & Met Eng 30:436-9 Mr 17 '24
Would install Diesel engines to save plant residue gas for producers. P. Truesdell. Nat Pet N 17:63-4 Je 24 '25

Patents

New stabilizer patented rectifies gasoline by raw gas contact. J. C. Chatfield. diags Nat Pet N 17:43-4 Je 10 '25
Patent fight opened on stabilized natural gasolines. J. C. Chatfield. Nat Pet N 17:29 S 9 '25

Specifications

Association of natural gasoline manufacturers have issued revised specifications covering all grades of raw natural gasoline. Pet Age 14:37 O 15 '24

Valuation

Factors involved in valuations of gasoline and gas contracts. A. B. Morris. Nat Pet N 16: 67+ Jl 30 '24

GASOLINE, Substitutes for
Board's questionnaire asks about substitutes for gasoline. Nat Pet N 17:40A Ap 29 '25; Same. Pet Age 15:27-8 My 1 '25
New motor fuels from coal. R. Cross. Pet Age 16:55 O 15 '25
Our future oil reserves—shale is main reliance when production fails. C. A. Fisher. Nat Pet N 17:33-5 Ap 22 '25
Processes used for making synthetic gasoline. Automotive Ind 52:224 F 5 '25
Substitute for gasoline is the problem of the hour in France. A. Baule. Automotive Ind 52:199 Ja 29 '25

GASOLINE—air mixtures
Dew points of gasoline-air mixtures. D. P. Barnard and R. E. Wilson. Ind & Eng Chem 17:428-9 Ap '25
Method of determining the dew points of fuel-air mixtures. R. J. Kennedy. diags U S Bur Stand Sci Pa 500:47-63 '25; Abstract. Mech Eng 47:850 O '25

GASOLINE engines. See Automobile engines; Gas and oil engines

GASOLINE filling stations. See Gasoline service stations

GASOLINE handling
Cause of losses in marketing gasoline; how to hold them down. P. Truesdell. Nat Pet N 17:61+ Ap 8; 85-6 Ap 15 '25
Danger of gasoline in vapor form. il Safety Eng 46:265-7 D '23
Fire protection body to study tank truck equipping and handling. Nat Pet N 17:85-6 F 4 '25
Improvements in tank car dome planned to reduce natural gasoline losses. J. C. Chatfield. il diag Nat Pet N 17:47-8 S 30 '25
Just a tank, see the result. Pet Age 14:58 Jl 1 '24
Safety nozzle for gasoline lines. il Management & Adm 9:481 My '25
Static hazards in gasoline handling. G: L. Naylor and H. E. Ramsey. il Nat Safety N 9:13-15 F '24
Still up in air on static. Pet Age 14:52 Jl 15 '24

See also Gasoline pumps; Gasoline service stations; Tank trucks

GASOLINE hose
Government master specification for rubber-metal gasoline hose. Rubber Age 15:178 Je 10 '24

GASOLINE in sewers

See Garages—Drainage

GASOLINE industry
Are you fully insured? C: W. Whitehair. Pet Age 13:60+ My 1 '24
Cause of losses in marketing gasoline; how to hold them down. P. Truesdell. Nat Pet N 17:61+ Ap 8; 85-6 Ap 15 '25
Four leaf clovers appear in New Orleans; may bloom elsewhere this year. V. B. Guthrie. il Nat Pet N 16:62-3+ F 27 '24
Fundamentals in relationship between refiner and jobber. H. L. Deming. Nat Pet N 17: 75-7+ N 4 '25
Industry's intimate items. H. G. James. Pet Age 16:19-20+ Jl 1 '25
Jobbers would throw their business to refiners without stations. Nat Pet N 17:67-8 Ap 15 '25
Keeping business by assuring each customer a sure supply. P. Truesdell. Nat Pet N 16:81-2 Jl 2 '24
Loose credits of distributing and refining divisions discussed. J. C. Chatfield. Nat Pet N 16:47-8 S 24 '24

GASOLINE industry—*Continued*
Mystery station attracts patronage; also official suspicion. W. K. Halbert. Nat Pet N 16:71+ Ag 27 '24
Oil companies must gauge their growth by increase in autos. W. C. Platt. Nat Pet N 17:91+ Mr 11 '25
Oil slow to aid self. A. M. Honnet. Pet Age 15:29+ Ap 1 '25
Petroleum motor fuel. K. G. Mackenzie. Ind & Eng Chem 17:1105-14 N '25
Petroleum overproduction—causes and effects. W. C. Teagle. Chem Age 33:11-13 Ja '25
Petroleum triangle—the people, the government, the oil industry. A. L. Beaty. Nat Pet N 16:24-9 D 10 '24; Same. Am Pet Inst Bul 5:13-20 D 31 '24
Reasons for ups and downs. H. G. James. Pet Age 16:18-19 Ag 1 '25
Refiner must get more for his gasoline in 1924. F. A. Pielsticker. Nat Pet N 16:48c-d Ap 2 '24
Refiner's problem in 1923. G: N. Moore. Am Pet Inst Bul 4:39-43 D 31 '23; Same cond. Nat Pet N 15:33a-s D 19 '23
Retail marketing of gasoline. P. B. Erickson. Nat Pet N 17:39 Mr 25 '25
Running a one-man tank station no job for a cripple. W. K. Halbert. il Nat Pet N 16: 24-6 Jl 9 '24
Saturation point far away. P. B. Erickson. Pet Age 15:21+ F 1 '25
Some phases of the oil industry's public relations. F. B. Dow. Nat Pet N 16:39-40 O 15 '24
Terms and discount on gasoline. W. Z. Brown. Nat Pet N 16:94+ N 12 '24
Urges co-operative marketing agencies to keep down gasoline prices. V. B. Guthrie. Nat Pet N 17:25-6 Mr 4 '25
Western jobber pleads for N. P. M. A. collective buying plan. H. F. Brownell. Nat Pet N 17:85+ My 6 '25
What the automotive and oil industries can do for each other. H. L. Horning. Am Pet Inst Bul 4:31-5 D 31 '23; Excerpt. Nat Pet N 15:33a D 19 '23
Who are the friends of the people? B. Barton. Nat Pet N 17:69-72+ Ja 7 '25
World trade in gasoline. O. P. Hopkins. Econ W n s 30:227 Ag 15 '25

See also Gasoline service stations; Petroleum refining; *also* Pure oil company, Columbus, Ohio

Advertising

Advertises sealed gasoline tanks to insure against substitution. Nat Pet N 17:39 O 14 '25
Daring newspaper campaign against substitution; Tide water oil. J: A. Murphy. Ptr Ink 133:17-20 O 22 '25
Dye used to make premium gasoline distinctive; ads put it over. R. B. Stafford. Nat Pet N 17:55-6 F 25 '25
Human interest picture is feature of Imperial oil advertising. V. B. Guthrie. il Nat Pet N 15:35-6+ N 14 '23
Independent insignia in full bloom over all the Middle West. W. K. Halbert. Nat Pet N 16:23-4 Je 18 '24
Independent oil men are coupling-up national red hot advertising with local publicity and merchandising stunts. Pet Age 16:18+ S 15 '25
Is Saturday evening post copy ill-advised? Pet Age 15:28+ Je 1 '25
Jobbers adopt trademark for uniform national brand of gasoline. Nat Pet N 17:54+ Ap 15 '25
Low cost travel insurance policies offered as trade pullers. R. B. Stafford. Nat Pet N 17:55-6 Mr 25 '25
Mutual advertising is accomplished after years of campaigning. W. K. Halbert. Nat Pet N 17:27-8 My 6 '25
New York Standard builds advertising talks around popular ideas. Nat Pet N 16:65+ Ag 13 '24
Paid space instead of lobbyists; the Standard oil company of Indiana. R. Crothers. Ptr Ink 133:113-14+ O 1 '25
Season's mode in Socony copy. Ptr Ink 131: 61-2 My 28 '25
Standard oil has new trade character. Ptr Ink 125:178+ N 22 '23
Travel booklet of a drop of gasoline. Ptr Ink M 10:90+ F '25
Truck tank real sign board. A. Nicholaus. il Pet Age 16:41 Ag 1 '25
Unusual ideas featured in campaign to sell gasoline and oil. Nat Pet N 16:60+ Jl 30 '24
Walter C. Teagle—an unorthodox captain of industry. E: Hungerford. Ptr Ink M 8:36-8 Mr '24
What independent jobber should know about advertising effectively. C. E. Walters. Nat Pet N 16:23-4 Ag 6 '24
Wisconsin independents sell state on high test. R. R. Moore. il Pet Age 16:24+ S 15 '25
Wisconsin independents to try the press for association advertising. W. K. Halbert. Nat Pet N 17:23-4 Ja 21 '25

Contracts

Advantages under marginal contracts vary widely in different cities. R. B. Stafford. Nat Pet N 16:38-41 N 12 '24
Contract or open buying? Pet Age 14:38+ Jl 15 '24
Cosden offering jobbers gasoline contract based on spot market. J. C. Chatfield. Nat Pet N 17:38 Jl 15 '25
Factors involved in valuations of gasoline and gas contracts. A. B. Morris. Nat Pet N 16: 67+ Jl 30 '24
Gallonage contract based on market may replace marginal contracts. J. C. Chatfield. Nat Pet N 16:21-2 Jl 16 '24
Hope for better contracts foreseen as result of Nicholas' plan. L. V. Nicholas. Nat Pet N 16:52-3+; Discussion. J: M. Carson. 54 N 26 '24
Hope Standard's refund plan will do away with secret rebates. J. C. Chatfield. Nat Pet N 17:32+ Jl 8 '25
Jobber works out contract form but puts eggs in three baskets. P. Truesdell. Nat Pet N 17:71-2 Mr 18 '25
Marginal contracts damage business. F. A. Pielsticker. Nat Pet N 17:67-8 F 25 '25
Ohio marketers differ over meeting discount contracts. R. B. Stafford. Nat Pet N 17:43 S 30 '25
Oil men argue status of market at meeting in Milwaukee. Nat Pet N 16:63 Jl 2 '24
Platt's oilgram used as contract basis. J: M. Hall. Nat Pet N 16:74+ S 17 '24
Proposes new marginal contract based on spot prices. Nat Pet N 16:37 O 29 '24
Pure gives discounts to big buyers of gasoline and other oils. R. B. Stafford. Nat Pet N 17:17-18 S 23 '25
Refiners shy at contract. Pet Age 14:16-17 N 15 '24
Spot refinery market proper basis for marginal contracts. Nat Pet N 16:29-30 D 3 '24

Laws and regulations

Government in business disastrous to independent dealers. W. K. Halbert. il Nat Pet N 17:22-4 Ag 26 '25
Wisconsin jobbers find no hardship under price publicity rule. W. K. Halbert. Nat Pet N 17:56-8 Je 17 '25

Statistics

Consumption of gasoline by states. Survey of Cur Business 45:28 My '25
Consumption of gasoline exceeds that of milk by 4 to 1. R. B. Stafford. Nat Pet N 17: 55-6 F 11 '25
Cracking gives fourth of gasoline output; can be further expanded. Nat Pet N 17:18-19+ Jl 1 '25
Curtailing of crude run to stills justified by Bureau's figures. V. B. Guthrie. Nat Pet N 16:29-30 My 14 '24
Gasoline. Survey of Cur Business 30:84, 85; 36:94 F, Ag '24
Gasoline consumption by states for two months of 1925 and rate of change over last year. Nat Pet N 17:30 My 6 '25

GASOLINE industry—Statistics—*Continued*

Gasoline ranks fourth among all commodities exported in 1924. Nat Pet N 17:98 Je 10 '25

Gasoline stocks lower than year ago; rate of consumption gaining. R. B. Stafford. Nat Pet N 17:71+ O 14 '25

Increased cracking operations swell May gasoline output. Nat Pet N 17:20 Jl 22 '25

1923 good year after all. Pet Age 13:16 Mr 1 '24

Ratio of output of natural to refinery gasoline expected to decline. J. C. Chatfield. Nat Pet N 17:29-30 N 4 '25

Record gasoline demand shows output capacity more than ample. R. B. Stafford. Nat Pet N 17:37-9 S 9 '25

Tax and inspection figures show growth of gasoline demand. Nat Pet N 16:32e Jl 2 '24

World consumption of gasoline. Index p 14 S '25

World trade in gasoline. H. S. Fox. U S Bur For & Dom Com Trade Promotion ser 20:1-97 '25

California

Feeling the industry's pulse. H. G. James. Pet Age 16:16-17 S 15 '25

Future of the natural gasoline industry in California. C: F. Bevan. Nat Pet N 16:93+ Ap 30 '24; Excerpt. Pet Age 13:81+ My 1 '24

Increasing volume of California gasoline to be marketed East. V: W. Killick. Nat Pet N 17:36-8 Jl 15 '25

Georgia

Georgia court dissolves injunction fixing price of gasoline. Nat Pet N 17:56 Ap 1 '25

Georgia court orders oil companies not to raise price of gasoline. R. B. Stafford. Nat Pet N 17:30-1 Mr 11 '25

Iowa

Spooks of 1923 oil disaster haunt Iowa's legislative halls. W. K. Halbert. Nat Pet N 16:83+ Ap 16 '24

Massachusetts

Massachusetts commission urges public to seek cut-price gasoline. V. B. Guthrie. Nat Pet N 17:39-42 S 16 '25

Missouri

Missouri attorney general moves to oust Standard of Indiana. J. C. Chatfield. Nat Pet N 16:35-6 S 17 '24

S. O. Indiana declares Burton licenses open field to competitors. Nat Pet N 16:79 O 15 '24

Statement on Indiana Standard at Missouri hearing. R. W. Stewart. Nat Pet N 16:93+ S 24 '24

Nebraska

Bryan may take gas war thru campaign. W. K. Halbert. il Nat Pet N 16:20-1+ Ag 20 '24

Cut-rate gasoline stations welcomed by grateful Omaha folk. W. K. Halbert. il Nat Pet N 16:51+ My 28 '24

Standard of Nebraska joins fight on muncipal station. W. K. Halbert. Nat Pet N 17:97-8 Je 10 '25

Supreme effort of state's attorneys fails to damage industry. W. K. Halbert. Nat Pet N 16:25-6+ S 17 '24

South Dakota

Employees will lose most if Gunderson drives out the oil companies. R. W. Stewart. Nat Pet N 17:60+ O 7 '25

Legal controversy over state gasoline stations. Nat Pet N 16:17-18+ My 14; 20-2 Je 25; 31-2 Jl 2; 29-31 S 3 '24; 17:22 Jl 29; 22-4 Ag 26; 31-3 S 2; 73+ S 9; 46-7 S 16 '25

South Dakota officials prohibited from selling gasoline and oil. Nat Pet N 17:25-6 N 4 '25

United States

Consumption of gasoline by states, 1921-1923. Survey of Cur Business 34:52 Je '24

Distribution of gasoline and methods of price control. H. Thompson. Ann Am Acad 116: 89-95 N '24

Does increasing yield of gasoline cause industry to fool itself? P. Truesdell. Nat Pet N 16:29-30 S 10 '24

Domestic gasoline consumption is below normal first six months. J. C. Chatfield. Nat Pet N 16:34 Ag 13 '24

Eight billion gallons estimated as 1924 gasoline consumption. J. C. Chatfield. Nat Pet N 15:37-8 D 19 '23

Filling station is good place to tell oil industry's story. A. E. Chandler. Nat Pet N 17:63+ Ja 28 '25

Five companies do most of gasoline jobbing in Pacific Northwest. V. B. Guthrie. Nat Pet N 16:81+ N 12 '24

Gasoline and kerosene consumption. Am Pet Inst Bul v 5:4 F 29 '24

Gasoline consumption by states in the years 1922 and 1923. Am Pet Inst Bul 5:1-3 Mr 7 '24

Gasoline consumption by states, 1923 and 1924. Am Pet Inst Bul 6:1-4 Mr 18 '25

Gasoline figures show Mid-continent to be in fair position. J. C. Chatfield. Nat Pet N 16:27+ Je 18 '24

Gasoline index numbers and numerical data, 1921-1924. Survey of Cur Business 31:49 Mr '24

Gasoline manufacturing industry. L. M. Fanning. Annalist 23:732 Je 30 '24

Gasoline market. Published in weekly numbers of Commercial and financial chronicle

Gasoline markets hinge on exports and output during winter. J. C. Chatfield. Nat Pet N 16:30C-D D 10 '24

Gasoline stocks, added to during May should be warning to refiners. Nat Pet N 17:25-6 Jl 8 '25

How much is the gasoline refining business overbuilt, and where? H. H. Smith. charts Nat Pet N 16:17-20+ D 31 '24

Huge overproduction is chief feature of 1923 petroleum business. J. E. Pogue. Automotive Ind 50:169-74 Ja 24 '24

Increase in gasoline gallonage seems less than expected. Nat Pet N 16:69-70 Je 18 '24

Industry still in dumps. R. R. Moore. Pet Age 13:13+ Je 1 '24

Jobbers are paying refiners promptly, credit relations better. J. C. Chatfield. Nat Pet N 17:23-4 Jl 22 '25

Jobbers in 33 states report stocks on same basis as in 1924. P. Truesdell. Nat Pet N 17:31-2 Jl 22 '25

Marginal contracts not offered by Mid-continent refiners. J. C. Chatfield. Nat Pet N 15:27 D 19 '23

Mid-continent gasoline statistics present optimistic picture. J. C. Chatfield. Nat Pet N 17:31-2 Ap 29 '25

Minimum inventories and flexible runs policy of Mid-continent refineries. J. C. Chatfield. Nat Pet N 17:41-2 S 30 '25

1923 domestic production and consumption of petroleum and gasoline the largest on record. Comm & Fin Chr 118:256-7 Ja 19 '24

1924 domestic gasoline consumption estimated at over 8 billion. R. B. Stafford. Nat Pet N 16:17-18 Ja 23 '24

Perils ten years hence; where will the independents get their supply of gasoline. H. F. Brownell. Pet Age 15:26-7 Ap 15 '25

Report on the probable future demand for petroleum in the United States. Nat Pet N 17:31-5 Ag 12 '25

State gasoline figures show weather governs volume of trade. R. B. Stafford. map Nat Pet N 16:53+ Mr 26 '24

Whither are we drifting? Omaha in gasoline business. H. G. James. Pet Age 13:15-16+ My 1 '24

Wisconsin

Now is the time for the oil industry to fight meddlers to a finish. W. C. Platt. Nat Pet N 17:17-19 Ag 26 '25

Secret prices become unlawful in Wisconsin, May 4. Nat Pet N 17:22 Ap 22 '25

GASOLINE Industry—Wisconsin—*Continued*
Wisconsin jobbers find no hardship under price publicity rule. W. K. Halbert. Nat Pet N 17:56-8 Je 17 '25
Wisconsin oil jobbers meeting has good program. Nat Pet N 17:35 Ag 26 '25
Wisconsin quizzes oil men. H. Graffis. Pet Age 13:13-14 Je 15 '24
See also Wisconsin independent oil jobbers

GASOLINE locomotives. See Locomotives, Gas and oil

GASOLINE pipe lines
Pipe line used to transport raw natural gasoline. P. Wagner. Nat Pet N 15:58 D 19 '23

GASOLINE pumps
Hardoll French gasoline pump can be operated from a distance. il Nat Pet N 17:140+ My 13 '25
Shell kerbside petrol pump. il diags Engineering 117:301-4 Mr 7 '24

GASOLINE service stations
Andy finds prize station; North Shore, Chicago. R. A. M. Anderson. Pet Age 16:28-9 Jl 15 '25
Andy hands belt to Elgin. R. A. M. Anderson. il Pet Age 14:50 S 1 '24
Antique mansion home is replaced by neat service station. W. K. Halbert. il Nat Pet N 16:53-4 Mr 19 '24
Appearance his best ads. C: M. Alexander. il Pet Age 15:46+ Ap 1 '25
Big stations for big sites. R. A. M. Anderson. il Pet Age 16:32+ Ag 15 '25
Build 'em right at start. W: B. Goolsby. il Pet Age 13:54-5+ Ap 15 '24
Build palatial station to comply with rulings in restricted district at Coral Gables, Miami, Fla. il Nat Pet N 17:77 My 13 '25
Building materials—brick. R. A. M. Anderson. Pet Age 15:29+ F 15 '25
Calculate operating cost and profit before building stations. P. L. Welsh. Nat Pet N 16:107+ Mr 12 '24
Causeway service station at Miami. R. A. M. Anderson. il Pet Age 14:69+ O 1 '24
Correct gardening not too expensive for service station grounds. Nat Pet N 17:63-4+ Mr 4 '25
Dolling up for few dollars. R. A. M. Anderson. il Pet Age 14:45 Jl 1 '24
Dress your station up with flowers; here is how to go about it. Nat Pet N 17:90-2+ Ap 1 '25
Four leaf clovers appear in New Orleans; may bloom elsewhere this year. V. B. Guthrie. il Nat Pet N 16:62-3+ F 27 '24
Glacier Park and Belton service station synonymous to many tourists. N. M. Mainpa. il Nat Pet N 17:69-70+ S 16 '25
How far will membership company go? P. Truesdell. Nat Pet N 16:28+ Ja 16 '24
How Standard Oil (Ky.) builds 'em. R. A. M. Anderson. il Pet Age 14:30 D 1 '24
How S.O. of O. builds 'em; station in Oxford, O. R. A. M. Anderson. il Pet Age 13:52-3 Ap 15 '24
Improved station grounds attract trade. il Nat Pet N 17:63-4 Mr 11 '25
In ancient St Augustine. R. A. M. Anderson. il Pet Age 14:27-8 N 1 '24
Lesson from Rochester; filling station owners organize. R. L. Taylor. Pet Age 14:27-8 D 1 '24
Lessons from Kansas City; group idea. R. A. M. Anderson. Pet Age 15:40+ Ap 15 '25
Looking 'em over in Miami. R. A. M. Anderson. il Pet Age 14:42+ S 15 '24
Monarch oil company's model station in Kansas City, Mo. R. A. M. Anderson. il Pet Age 15:39 Je 1 '25
Nearing saturation point? survey in Cleveland. F. A. Meckel. Pet Age 14:15 S 15 '24
New style in Kentucky. A. W. Williams. il Pet Age 13:54+ Mr 15 '24
Open-face type in South. R. A. M. Anderson. Pet Age 14:27-8 O 15 '24
Our oldest oil company; Jenney manufacturing co., Boston. L. F. Pratt. il Pet Age 15:37-8 My 1 '25
Personality builds gasoline sales; Dick Wick Hall of Salome, Ariz. V. B. Guthrie. il Nat Pet N 17:65+ Jl 22 '25
Pickings poor in 150 miles around Chicago. R. A. M. Anderson. il Pet Age 14:37-8 Ag 15 '24
Psychology in station game. B. F. Ruby. Pet Age 16:26+ Jl 15 '25
Pumps instead of tin cans; British take to American methods in service stations. L. J. Coulter. Pet Age 14:44+ S 15 '24
Retailing from bulk plants. R. A. M. Anderson. il Pet Age 16:28+ Jl 1 '25
Selling gasoline in the Soo. R. A. M. Anderson. il Pet Age 14:37-8 Ag 1 '24
Service station field is playground for architectural design. il Nat Pet N 17:72+ My 13 '25
Service stations. Published in semi-monthly numbers of Petroleum age
Skelly seeks snappy sites. R. A. M. Anderson. il Pet Age 16:26+ S 1 '25
South Chicago station copies California style. R. A. Anderson. il diag Pet Age 14:37-8 Jl 15 '24
Station building an art. R. A. M. Anderson. Pet Age 15:48+ Ap 1 '25
Station building—frame. R. A. M. Anderson. il Pet Age 15:28+ Mr 1 '25
Study your equipment first. R. L. Taylor. il Pet Age 16:30+ Jl 1 '25
Super idea spreads East. F. H. Williams. Pet Age 15:40-1 Ag 15 '25
Tendency is toward better stations rather than more of them. W. K. Halbert. Nat Pet N 17:75-6 My 13 '25
Texas co. rules Palm Beach. R. A. M. Anderson. il Pet Age 14:25-6 N 15 '24
33,399 gallons in one day; Redmond filling station of Schenectady, N.Y. il Pet Age 14:42+ Ag 1 '24
32 pumps at this station; world's largest at Pittsburgh. R. McDaniel. il Pet Age 16:28+ O 1 '25
This filling station is genuine auto department store; Mayer auto station, Rochester, N.Y. R. B. Stafford. il diag Nat Pet N 17:52-4 Ag 26 '25
This high roof new feature of service station in Lake county, Ill. R. A. M. Anderson. il plan Pet Age 13:56+ Je 15 '24
Trim buildings sell more gas. il Bldg Age 47:97 N '25
Variety in station roofs. R. A. M. Anderson. Pet Age 15:24-5 Mr 15 '25
What type shall I build? R. A. M. Anderson. il Pet Age 15:25+ Ja 1 '25
Where the site is small. diag Pet Age 14:28+ N 1 '24
Why not give 'em thrills? F. H. Williams. Pet Age 14:28+ N 15 '24

Advertising
Ads for women drivers. V. Caldwell. il Pet Age 15:40 Je 15 '25
Democracy of advertising; M. J. Elliot, of Suffolk, Va., protests against Standard oil filling stations. R. Crothers. Ptr Ink 127:146+ Je 12 '24
Do advertising managers stay too close to their desks? R. Crothers. Ptr Ink 126:25-6+ F 14 '24
Ever try direct mail ads? F. H. Williams. Pet Age 15:25-6 F 15 '25
Finds humor pays in ads. F. H. Wilson. Pet Age 16:64-5 Ag 15 '25
How much for advertising? F. A. Meckel. il Pet Age 13:73+ Ap 1 '24
Ice cream as a lure. J: T. Bartlett. Pet Age 13:48 Je 15 '24
In and outs of advertising. R. L. Heaton. il Pet Age 13:45-6+ Ap 15 '24
Mostly take-off in copy. A. L. Ross. Pet Age 16:32-3 Jl 15 '25
My ads—big or little? W. Piper. Pet Age 15:32 Ja 1 '25
On trail of new customers. G. Triplett. Pet Age 14:32+ O 15 '24
One-idea ads will pay best. A. A. Shields. Pet Age 15:37-8 My 15 '25

GASOLINE service stations—Advertising—*Cont.*
Studies in advertising copy. F. B. Porter. il Pet Age 15:39-40 Ap 15 '25
Tracing results from ads. F. B. Porter. Pet Age 16:32-3 S 1 '25
Tricks in trapping the eye. A. A. Shields. Pet Age 15:30+ My 1 '25
When to use cooperative ads. E. Cousins. Pet Age 13:56-7 My 15 '24
When your ad looks sour. A. A. Shields. Pet Age 16:26+ N 1 '25

Alcohol trade
Boosts alcohol sales with visible dispensing equipment. A. C. Carpenter. il Nat Pet N 17:82-3 My 27 '25

Cost
Figuring building costs. R. A. M. Anderson. Pet Age 15:25+ Ja 15; 28-9 F 1 '25

Drainage pits and racks
Building a good wooden drain rack; disposing of old oil. P. Truesdell. diags plan Nat Pet N 16:75-7+ Je 18 '24
Working plans for building economical concrete drainage pit. P. Truesdell. diags Nat Pet N 16:63-4+ Je 11 '24

Employees
Solving hired help problem. W. H. Cotrel. Pet Age 15:29+ My 15 '25

Equipment
Manufacturer adapts new safe to service stations. il Nat Pet N 17:71 F 18 '25
Motorists like new frills; station of the Shell company of California in San Francisco. J. V. Murray. Pet Age 16:30-1 O 1 '25
Speed or service—which? F. H. Williams. Pet Age 16:31-2 Ag 1 '25
Why so many station frills? F. H. Williams. il Pet Age 14:48 Ag 1 '24

Fuel oil selling
Is fuel oil trade yours? J. E. Foster. il Pet Age 14:74+ O 1 '24

Lighting
Correct lighting is both convenience and good advertising. R. J. Crandall. il Nat Pet N 17:133-4+ My 13 '25
Making service stations pay—proper methods of lighting. P. Truesdell. il Nat Pet N 16: 65-6+ F 20 '24
Re-lighting the gas station. il Am Inst E E J 43:666 Jl '24

Location
Makes oil business successful by staying on familiar ground. P. Truesdell. il Nat Pet N 16:53-4+ Jl 9 '24
Picking ideal station site. J. H. Duncan. il Pet Age 15:32+ Je 15 '25
When you can't buy a corner. F. H. Williams. Pet Age 14:52+ S 1 '24

Management
As help sees the boss. F. H. Williams. Pet Age 15:39+ Ap 1 '25
Be civil, but not servile. F. H. Williams. Pet Age 16:29-30 S 1 '25
Car congestion aids sales; selling parking space at low figure doubles his gasoline output. B. F. Ruby. Pet Age 16:32+ S 15 '25
Car-washing era here soon. R. A. M. Anderson. Pet Age 15:28-9 My 15 '25
Cash in on first day sales. F. H. Williams. Pet Age 15:29-30 Ja 1 '25
Cultivating market close by helps station man win prize. Nat Pet N 17:83 Ag 19 '25
Denver Powerine co. employes now partners. J: T. Bartlett. il Pet Age 13:52-4 Je 1 '24
Does crank case service pay? J. E. Foster. Pet Age 14:25+ D 15 '24
Filling station chain centralizes oiling and greasing service. R. B. Stafford. Nat Pet N 16:36+ O 22 '24
Flat rate lube system here; Indian refining co. starts innovation. Pet Age 16:42 Ag 1 '25
Full gasoline tank in most cases means an easier-riding car. P. Truesdell. il Nat Pet N 17:107+ My 13 '25
Here's the steam car washer. R. A. M. Anderson. Pet Age 15:29-30 Je 15 '25
How to entice wary motorist. F. H. Wilson. Pet Age 15:40+ My 1 '25
How to increase sales. B. M. Nugent. Pet Age 13:66 My 1 '24
Lessons from experience. F. H. Wilson. Pet Age 15:21-2 Mr 1 '25
Makes every end pay out. R. A. M. Anderson. Pet Age 16:28+ Ag 1 '25
Making the service station operator a little more than that. E. T. Geddes. Nat Pet N 17:149+ My 13 '25
Motto—keep loafers away. F. H. Williams. Pet Age 13:46+ Je 1 '24
Only gas, oil and greases. B. F. Ruby. il Pet Age 14:45-6 S 1 '24
Personality made to count in running one service station. V. B. Guthrie. Nat Pet N 16:53-4+ Je 18 '24
Retail credit at service stations can be made to pay. W. K. Halbert. Nat Pet N 17:83-4+ F 18 '25
Service and bulk station credits most difficult to handle. M. E. Kleespie. Nat Pet N 16:91+ O 1 '24
Serving women at service stations, from a woman's viewpoint. Nat Pet N 17:153-4+ My 13 '25
Tiny stations but top sales; Julian petroleum corporation. C: S. Ryan. il Pet Age 13:52-3 My 15 '24
Too many side lines now. F. H. Williams. Pet Age 14:50+ S 15 '24
29 points to success; timely hints for service station owners. B. Morris. Pet Age 16:30 Ag 1 '25
What makes women regular customers at service stations? il Nat Pet N 16:78-9+ N 19 '24
What the customer thinks. F. A. Meckel. il Pet Age 13:53+ Mr 15 '24
Where does good will start? Pet Age 16:37-8 Ag 15 '25
Your sales appeal to youth. F. H. Williams. il Pet Age 14:44+ Ag 15 '24

Painting
Fresh paint and posies lift jinx from unprofitable station. N. M. Mainpa. Nat Pet N 17:101-2 My 13 '25
Fresh paint big cash asset. Pet Age 14:37-8 S 15 '24

Signs
Lure of electric signs. J: Caflisch. Pet Age 15:32+ Je 1 '25
Sign posts always pay; station in South Haven, Mich. R. A. M. Anderson. il Pet Age 16:34+ O 15 '25
Signs we pass in the night. R. A. M. Anderson. il Pet Age 13:45-6+ Je 1 '24

GASOLINE service stations, Factory
Factories sell bargain price gasoline as employe welfare work. V. B. Guthrie. Nat Pet N 17:25-6+ Je 10 '25
Larkin has many imitators selling cut rate gasoline at Buffalo. R. B. Stafford. Nat Pet N 17:85+ Jl 8 '25
Soap factory sells gasoline and lubes cut price from its back yard; Larkin co.'s cut price gasoline station at Buffalo, N.Y. R. B. Stafford. il Nat Pet N 17:40-1 Je 24 '25
Youngstown sheet & tube co. handles gasoline as a convenience to employes. V. B. Guthrie. Nat Pet N 17:23-4 Je 17 '25

GASOLINE storage
Storing gasoline under pressure. il Sci Am 130:247 Ap '24
See also Oil storage

GATES
Gateway—cemetery of the Gate of Heaven, Mount Pleasant, New York; views. Arch Rec 56:59-63 Jl '24
Renaissance garden at San Domenico, Florence. R. W. Ramsdell and H. D. Eberlein. il diags plan Arch Forum 41:293-300 D '24

GATES—*Continued*
Vicar's gate at Adderbury, Oxfordshire, England. il diags Am Arch 127:65-6 Ja 28 '25

See also Lich gates

GATES, Chute. See Chute gates

GATES, Hydraulic
Design considerations in Dix River rockfill dam. L. F. Harza. il diags Eng N 94:1058-61 Je 25 '25
Discharge through adjustable submerged orifices. H. A. Wadsworth. il diags Eng N 90: 308-9; 92:866-7 F 15 '23, My 15 '24
Diversion tunnel gates for the Arapuni hydroelectric power supply. il diags Engineering 119:764-5 Je 19 '25; Same. Eng & Contr (W W) 64:1065-9 N 11 '25
Dock sluice gates for the Congella docks, Durban, South Africa. il Can Eng 47:225 Ag 5 '24
Hydro-electric plant at Forshuvudforsen, Sweden. il diags Engineering 119:155-8 F 6 '25
Model of the Vaal river sluices. W. Ingham. il Engineer 137:357 Ap 4 '24
Modern water control apparatus. F. Johnstone-Taylor. il diags Can Eng 47:349-54, 371-4 S 23-30 '24
New type canal lock gate developed in Sweden. L. Lawski. diags Eng N 93:135-6; 95:396-7 Jl 24 '24, S 3 '25
Placing the Wilson dam spillway gates. il Eng & Contr (G C) 63:807-8 Ap 17 '25
Preventing water losses through turbine gates. F: Krug. Elec W 82:1227 D 15 '23
Le puits-déversoir pour l'évacuation souterraine de crues du barrage-réservoir de Davis Bridge (Vermont, E.-U.). P. Caufourier. il diags Génie Civil 85:269-72 S 27 '24
Reconstruction of Hell Gate dam to eliminate silt. il diags Eng N 91:1055-8 D 27 '23
Roller gates make up the major portion of Powerdale dam. J. E. Yates. il plan Eng N 94:482-3 Mr 19 '25
Rubber and steel hydraulic gates. il India Rubber W 71:166 D '24
Sarda canals irrigation barrage. D: Brownlie. il Can Eng 49:127 Jl 14 '25
Vaal river barrage remarkable for its large gates. il Eng N 94:224 F 5 '25
Wilson dam spillway regulating gates. diags Eng & Contr (W W) 62:1051-2 N 12 '24

See also Locks (hydraulic engineering)

Control

Automatic spillway gates of Black Canyon dam. J. Hinds. il diags Eng N 94:1046-50 Je 25 '25; Abstract. Génie Civil 87:294-5 O 3 '25
Remote operation of valves and gates. R. H. Rogers. il diag Gen Elec R 27:729-35 N '24
Water gates opened with power driven chain hoists. il Power Pl Eng 29:166 Ja 15 '25

GATES rubber company, Denver, Colorado
How Gates built a three million dollar business in thirty years. C: C. Gates. il Sales Management 7:1345-6+ Ag '24

GATEWAYS. See Gates

GEAR cases

Manufacture

Molds large iron gear cases. P. Dwyer. il Foundry 52:623-7+ Ag 15 '24

GEAR cutting
Application of continued fractions to gear-cutting problems. R. B. Willis. Am Mach 63:400-1 S 3 '25
Cutting a gear without proper equipment. J. Mulquin. il Am Mach 60:149 Ja 24 '24
Cutting evenly spaced teeth on a cylinder. A. M. Sargent. Mach 31:48 S '24
Cutting internal gears on a shaper. H. F. Crawford. diags Am Mach 62:27 Ja 1 '25
Cutting worm-gears with an improvised hob. W. R. Stults. diags Mach 31:391-2 Ja '25
Gear-cutting processes. F. D. Jones. 342p Industrial press, New York '24
Gear production in a modern printing-press factory. H. H. Edge. il Am Mach 62:997-9 Je 25 '25
Historical notes on gear teeth. L. D. Burlingame. il diags Mach 30:529-34 Mr '24
Hobbing worm-wheel with a tap. O. S. Marshall. il Mach 32:55 S '25
How to estimate machine shop costs. A. A. Dowd. diags Am Mach 61:227-30, 299-302 Ag 7, 21 '24
New process of hobbing spur gears. N. Trbojevich. il diags Am Mach 62:337-41 F 26 '25
Noisy timing gears; causes and remedies. C. M. Aldrich. il diags Mach 31:116-21 O '24
Pinion cutting on a hand miller. D. A. Hampson. il Mach 31:345 Ja '25
Problems solved in machining large gears. L: H. Kenney. il diags Iron Age 115:263-8 Ja 22 '25
Recent progress in gears and gear cutting. I. H. Wright. Engineer 137:99 Ja 25 '24

See also Gear cutting machines; Gear grinding machines

GEAR cutting machines
Accuracy is quality chiefly sought in design of new gear hobbing machine. il diag Automotive Ind 49:1061-2 N 22 '23
Brown & Sharpe no. 34 gear hobbing machine. il Am Mach 59:965-6 D 27 '23; Automotive Ind 50:21 Ja 3 '24; Mach 30:399-400 Ja '24; Automobile Eng 14:75 Mr '24; Engineering 117:461-3 Ap 11 '24
Checking tooth-forms by the comparator. W. G. Hildorf. Soc Auto Eng J 14:555-6 My '24
Fellows gear shaper on automotive work. E. Bouton. Am Mach 61:918-19 D 11 '24
Fixture for cutting helical gears. D. A. Hampson. il Mach 31:124 O '24
Fixture for indexing the teeth of elliptic gears. J. Williams. il diags Am Mach 63: 143-5 Jl 23 '25
Gleason spiral bevel gear generator. il Mach 31:660-1 Ap '25; Am Mach 62:555 Ap 2 '25; Automotive Ind 52:630 Ap 2 '25
Gould & Eberhardt no. 72-H automatic gear hobbing machine. il Am Mach 60:669-70 My 1 '24; Iron Age 113:1289-90 My 1 '24; Mach 30:724-5 My '24
Gould & Eberhardt no. 16HS gear hobbing machine. il diag Am Mach 60:194-5 Ja 31 '24; Automotive Ind 50:347-8 F 14 '24; Iron Age 113:361-2 Ja 31 '24; Mach 30:486-8 F '24
Lees-Bradner new gear generator. il Iron Age 114:511-12 Ag 28 '24; Automotive Ind 51:402-4 Ag 28 '24; Am Mach 61:357-9 Ag 28 '24; Mach 31:61-2 S '24
New double helical gear generator. il diags Engineer 138:445-7 O 17 '24
Nouvelle machine à tailler les engrenages coniques hélicoïdaux, système Smith et Coventry. il diags Génie Civil 86:533-6 My 30 '25
O.K. gear hobs and cutters. il Mach 31:64-5 S '24
Selection of milling cutters for helical involute teeth. E. Wildhaber. diags plan Am Mach 59:909-11 D 20 '23
Shaper as a gear generating machine. J. V. Romig. diags Am Mach 59:924 D 20 '23
Straight bevel gear generator is designed for mass production. il Automotive Ind 49:958-9 N 8 '23
Sykes double-helical gear generator. il Am Mach 63:554-8 O 1 '25; Iron Age 116:1189-91+ O 29 '25; Blast F & Steel Pl 13:456-8, 497-8 N-D '25; Mach 32:233-6 N '25
What modern machine tools are doing; Barber-Colman hobber. diags Am Mach 61:428-9 S 11 '24

See also Gear grinding machines

Inspection

Recommended practice for the inspection of disk gear cutters. diag Am Mach 63:737 N 5 '25

Manufacture

Gear cutting hob of novel construction. il Am Mach 62:207-9 Ja 29 '25
Modernizes heat treating shop; Gleason works, Rochester, N.Y. E. F. Ross. il plan Iron Tr R 74:541-5 F 21 '24
Using an optical projector for cutter forming. R. Grant. il diags Mach 31:200-1 N '24

GEAR grinding machines
Fellows announces a full-automatic gear grinder. il Automotive Ind 49:1309-11 D 27 '23; Iron Age 112:1649-50 D 20 '23; Am Mach 59:963-4 D 27 '23
Fixtures used to grind the web of a driving gear. W: Denton. il Am Mach 62:324-5 F 19 '25
Garrison hydraulic gear grinder. il Mach 31: 733-4 My '25; Am Mach 62:975-6 Je 18 '25
Improved indexing mechanism added to gear tooth grinder. W. L. Carver. il Automotive Ind 52:147-8 Ja 22 '25

GEAR testing machines
Gear-testing machine designed for A. S. M. E. research work. il Mech Eng 47:24 Ja '25
Modern problems in gear testing and a proposed testing machine. W. Lewis. il diags Am Mach 59:875-81 D 13 '23
Société Genevoise gear testing machine. il Am Mach 61:635 O 16 '24; Mach 31:239-40 N '24; Iron Age 114:1070 O 23 '24
Tooth bearing control for spiral bevel gears. C: H. Logue. il diags Am Mach 60:549-53 Ap 10 '24
Universal gear testing machine. F. Johnstone-Taylor. il diags Mach 31:289-91 D '24
Wickman gear measuring machine at Olympia. il diags plan Engineer 138:272-3 S 5 '24; Automobile Eng 15:25-6 Ja '25

GEARING
A.G.M.A. discuss designing, making and selling gears. Iron Tr R 75:1108-9 O 23 '24
American gear manufacturers' association 8th annual meeting, Buffalo. Automotive Ind 50:1027-34 My 8 '24; Iron Age 113:1365-7+ My 8 '24; Iron Tr R 74:1247-9 My 8 '24
American gear manufacturers' association 9th annual meeting, Pittsburgh, Pa. Automotive Ind 52:853-7 My 14 '25; Iron Tr R 76: 1292-3+ My 14 '25; Iron Age 115:1435-9 My 14 '25; Mach 31:779-81 Je '25
American gear manufacturers' association semi-annual meeting, West Baden, Ind., Oct. 1-3. P. M. Heldt. Automotive Ind 53:624-7 O 8 '25
American gear manufacturers' association standard rawhide gearing: data sheet. Mach 31:362a Ja '25
Cleveland worm & gear reduction unit, type AT. il Am Mach 63:76 Jl 9 '25; Mach 31: 1003 Ag '25
Le conjoncteur automatique à friction, système J. Fieux. diags Soc Ing Civils Bul 78: 261-6 Mr '25; Same. Génie Civil 86:360-2 Ap 11 '25
Design and inspection of gear teeth for wear. P. M. Gallo. diag Blast F & Steel Pl 13:368, 392-4 S-O '25
Development of British gear industry. W. E. Sykes. Iron Age 113:1419-20 My 15 '24
Development of the gear art. F. Burgess. Am Mach 62:807-8 My 21 '25
Embrayage Duplex, de la Société d'engins graisseurs. diags Génie Civil 86:169 F 14 '25
L'état actuel de la traction sur voies ferrés par moteurs à combustion interne. E. Brillié. il diags Soc Ing Civils Bul 78:199-260, pl 91-2 Mr '25; Same. Engineering 119: 491-3, 524-7, 558-60, 620-2, 684-7 Ap 17-My 1, 15, 29 '25; Same cond. Génie Civil 86: 325-33, 355-8 Ap 4-11 '25
Expedient to quiet noisy gears. J. T. Towlson. diag Am Mach 61:28 Jl 3 '24
Gear drives in sheet mills. H. H. Talbot. Mech Eng 47:206 Mr '25
Gear industry during the coming year. Mach 31:369-70 Ja '25
Gear research. O: M. Burkhardt. Mach 31: 1012 Ag '25
Gearing and gear lubricants. A. F. Brewer. il Ind Management 68:18-24 Jl '24
Gears of unusual size. il Mach 30:993 Ag '24
Germans active in rail car design. P. M. Heldt. diags Automotive Ind 53:218-23 Ag 6 '25
Hele-Shaw Beacham variable transmission gear. il diags Engineering 120:477-80 O 16 '25
Hexagonal holes in change gears. J: Williams. il Am Mach 59:957 D 27 '23
Instructions for the operation, care and repair of reduction gears. 39p U.S. Bur. of engineering, Washington, D.C. '25
Interlocking devices. A. Clegg. diags Mach 30:446-7, 614-16 F, Ap '24
Maintenance: gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 34:56-60+ Ja '25
Modernizing sets of old-type gear reductions with oil circulating system. M. C. Cockshott. plan Ind Eng 83:550-1 N '25
Morison speed reduction gear. il diag Am Mach 59:857-8 D 6 '23
Le problème du changement de vitesse continu et ses principales solutions actuelles. A. Dumont. diags Génie Civil 83:537-40, 565-9 D 1-8 '23
Recommended practice for interchangeable gears. diags Am Mach 63:645 O 22 '25
Reducing excess noise in the foundry. T. C. Roantree. il Foundry 52:408-9 My 15 '24
Reducing speed by gear sets. diags Iron Tr R 76:348-50 Ja 29 '25
Revolutionary transmissions; abstract. diags Mech Eng 46:46-7 Ja '24
Schneider variable speed gear. diags Engineer 137:262 Mr 7 '24
Les transmissions par galets de friction. diags Génie Civil 84:549-51 Je 7 '24
Urges extending application of gears. Iron Age 114:1060-1 O 23 '24
Various forms of gears and their uses. G. H. Radebaugh. il Coal Age 26:125-6 Jl 24 '24
What makes a gear noisy? F. C. Hudson. Am Mach 60:516 Ap 3 '24
See also Airship engines—Gearing; Automobiles—Gearing; Chain gear; Electric motors, Railway—Gearing; Gear cutting; Gear cutting machines; Gear testing machines; Hydraulic transmission; Locomotives—Gearing; Machine tools—Gearing; Motor buses—Gearing; Motor trucks—Gearing; Planing machines—Gearing; Speed variation; Steam turbines—Gearing; Steam turbines, Marine—Gearing

Bibliography

Bibliography on efficiency, durability, and strength of gear teeth. C. W. Ham and J. W. Huckert. Ill U Eng Exp Sta Bul 149: 76-92 '25

History

Historical notes on gear teeth. L. D. Burlingame. il diags Mach 30:529-34 Mr '24

Manufacture

Development of the gear industry. E. W. Miller. il diags Mach 30:265-9 D '23
Gear manufacturer needed; the three classes of gear users and their needs. L. G. Hewins. Am Mach 60:743-6 My 15 '24; Abstract. Mach 30:766 Je '24
Gear production troubles and methods discussed by engineers. Automotive Ind 49: 1036-8 N 22 '23
Grundlagen und neuere fortschritte der zahnrädererzeugung. K. Kutzbach. il diags Zeit Ver Deutsch Ing 68:913-20, 1075-81 S 6, O 11 '24
Heat-treatment of steel gears. J. K. Wood. Am Mach 61:567-70 O 9 '24
Importance of accuracy of tooth-form. A. H. Frauenthal. Soc Auto Eng J 14:556-7 My '24
Machining a differential spider. F. Osgood. diags Am Mach 61:1005-6 D 25 '24
Machining differential side gears. O. S. Marshall. il diags Mach 32:118-19 O '25
Machining gears for an electric-truck driving mechanism. F. H. Colvin. il Am Mach 61:535-7 O 2 '24
Machining large herringbone gears. H. Campbell. il Am Mach 60:625-8 Ap 24 '24
Make heavy machine parts. P. Dwyer. il Foundry 52:182-4+ Mr 1 '24
Making small gears on a drill press. J. H. Beebee. diag Mach 31:40 S '24
Melting 9 tons in 3-ton furnace. L. J. Barton. il Iron Tr R 74:1493-5 Je 5 '24; Same. Foundry 52:401-3 My 15 '24; Same cond. Iron Age 113:1724-6 Je 12 '24
Metal gear patterns. J. F. Hines. il Mach 30:692-3 My '24

GEARING—Manufacture—*Continued*
Need of grinding carburized and hardened gears. O. H. Schafer. diags Soc Auto Eng J 14:548-50 My '24
New type of constant-mesh transmission. W. A. McCarrell. diags Soc Auto Eng J 15:101-4 Jl '24; Same cond. Am Mach 61:809-11 N 20 '24
Oil-treated steel and ground gears. L. A. Danse. il diag Soc Auto Eng J 14:551-4 My '24
Polishing and burnishing of gear teeth. R. E. Linn. il Soc Auto Eng J 14:554-5 My '24
Problem of gear production. T. Buckingham. Soc Auto Eng J 17:325-6 O '25; Same. Mach 32:102 O '25; Same. Am Mach 63:535-6 O 1 '25; Same cond. Automotive Ind 53:536-7 S 24 '25
Recommended practice for steel castings for gears. Am Mach 63:646 O 22 '25
Running-in machine for transmission gears. W. R. Graham. diags Mach 31:563-4 Mr '25
Some metallurgical considerations of gears; abstract. diags Mech Eng 47:584-5 Jl '25
Stabilizing gear manufacturing. L. G. Hewins. Iron Tr R 74:1691-3 Je 26 '24
Tools for a gear spider. F. C. Hudson. il Am Mach 61:741 N 6 '24
What are the future possibilities in gear manufacturing equipment? F. W. England. Am Mach 62:808-9 My 21 '25; Same. Iron Age 115:1436 My 14 '25

See also Gear cutting machines; Gear grinding machines

Repair

Repairing a broken gear tooth by means of studs. G. H. Radebaugh. il Coal Age 26:359-62 S 11 '24
Repairing a cast-iron gear. F. H. Ryan. diag Am Mach 62:1010-11 Je 25 '25; Discussion. O. P. Williams. 63:586 O 8 '25

Standards

Adopted standards for non-metallic gearing. diag Am Mach 60:48 Ja 10 '24
Involute gears—proposed standard proportions for stub- and full-depth-tooth forms. Mech Eng 46:572 S '24
Progress reported in gear standardization work. Iron Age 114:1061-2; 115:1437-9 O 23 '24, My 14 '25
Proposed standardization of gearing. diags Mach 30:374-7 Ja '24
Standard tooth proportions; data sheets. Mach 31:186a N '24
Standardization by gear manufacturers. diag Mach 32:194-7 N '25; Am Mach 63:604b-c O 8 '25
Stub tooth proportions recommended by American gear manufacturers association. Am Mach 60:767 My 22 '24

Tables, calculations, etc.

Analysis of milled gears. E. Wildhaber and E. Buckingham. Am Mach 59:757-9 N 22 '23
Le calcul des embrayages à disques. Génie Civil 86:82-7 Ja 24 '25
Calculating change gears with the aid of a slide rule. H. Herring. diags Am Mach 61: 324 Ag 21 '24
Calculating width of gear teeth. diags Power Pl Eng 28:1270-1 D 15 '24
Calculations for differential indexing. G: C. Smith. Am Mach 60:238 F 14 '24
Calculator for horsepower of spur gearing. R. Johnson. Am Mach 62:13-16 Ja 1 '25; Discussion. H. W. Leet. 62:427 Mr 12 '25
Chart for designing spiral gears. T. C. Campbell. Mach 30:460-2 F '24
Design chart for industrial gears. T. F. Stacey. Am Mach 61:231-2 Ag 7 '24; Same. Am Mach 61:643-4 O 23 '24
Design of helical and worm gears. M. K. Akers. chart Mach 30:338-9 Ja '24
Engagement and loading of involute gearing. A. F. Ainslie. Engineer 136:685-7 D 28 '23
Establishing manufacturing tolerances of gearing. H. Hoisington. Am Mach 63:267-9 Ag 13 '25
Gear designing tables. L. S. Burbank. Mach 31:141-2 O '24
Gear tooth loads. E. Buckingham. Am Mach 63:783-5 N 12 '25
Graphical solution of helical gear problems. F. Szabo. diags plan Am Mach 60:391-4 Mr 13 '24
Helical gear problems simplified. O. M. Burkhardt. diags Am Mach 61:529-30 O 2 '24
Horsepower of non-metallic gearing. Mach 32: 195-6 N '25
How bearing loads on idler gears may be determined. R. S. Condon. diags Automotive Ind 53:788-9 N 5 '25
Involute gear teeth; chart diags Automobile Eng 14:237-42 Ag '24
Limiting cases in involute spur gearing. A. B. Cox. diags Mech Eng 46:683-91; Discussion. 691-2 N '24
Mathematical theory of dynamic stresses in rotating gear pinions. P. Heymans. diags Mech Eng 46:583-7 O '24; Discussion. 46: 587-9; 47:138-40 O '24, F '25
Measuring gear teeth. J. L. Williamson. diags Am Mach 63:609-12 O 15 '25; Same. Automotive Ind 53:900-2 N 26 '25; Same. Mach 32:321-3 D '25
Measuring gears by the use of pins. R. W. Burgess. Am Mach 62:969 Je 18 '25
Measuring spur gears by the use of pins. S. Trimbath. Am Mach 62:784 My 14 '25
Measuring variations in the pitch of gear teeth. G. A. Luers. diags Mach 30:799-800 Je '24
Method of finding lead gears. B. M. Haverstick. Am Mach 63:419-20 S 10 '25; Discussion. 63:629, 1019 O 15, D 24 '25
Rules for calculating spur gears; reference-book sheet. Am Mach 63:245 Ag 6 '25
Strength of gear teeth. Marine Eng 30:360-1 Je '25
Strength of spur gears. Automobile Eng 14: 262-4 S '24
Super-accuracy in gear ratios. T. M. Lowthian and W. Owen. Engineer 137:164-6 F 15 '24; Abstract. Mech Eng 46:285-6 My '24
Tooth contact in helical gears. A. H. Candee. diags Am Mach 62:457-61 Mr 19 '25; Correction. 62:620 Ap 16 '25
Wheel gearing; tables of pitch-line diameters of wheels, proportions and strengths of teeth, etc. A. Wildgoose and A. J. Orr, comps. 175p Spon '21

Terminology

Parts nomenc'ature for three-speed transmission. diags Am Mach 63:687 O 29 '25
Proposed standard nomenclature for gearing; report of the Nomenclature committee of the American gear manufacturers association. Am Mach 59:801-2 N 29 '23; Same. Iron Age 112:1668-9 D 20 '23; Same abr. Automotive Ind 49:1111 N 29 '23

Testing

Effect of inaccuracy of spacing on the strength of gear teeth. L. J. Franklin and C. H. Smith. il diags Mech Eng 47:29-32 Ja '25; Abstract. Automotive Ind 52:233 F 5 '25
Gear-test fixture. G. H. Froelich. diag Mach 31:888-9 Jl '25
Gear tooth calipers. H. Bentley. diags Cassier's Ind Management 12:207-8 Mr '25
Gear-tooth testing. J. Horner. il diags Engineering 118:696-8, 821-3 N 21, D 19 '24
Investigation of the efficiency and durability of spur gears. C. W. Ham and J. W. Huckert. il diags Ill U Eng Exp Sta Bul 149:1-92 [bibliog. p. 76-92] '25; Excerpt. Am Mach 63:613-14 O 15 '25; Same. Mech Eng 47:874 N '25; Same. Mach 32:197 N '25
Modern problems in gear testing and a proposed testing machine. W. Lewis. il diags Am Mach 59:875-81 D 13 '23
Photoelasticity and its relation to gear wheels. A. L. Kimball, jr. il diags Am Mach 63:7-10, 51-4 Jl 2-9 '25; Same abr. Automotive Ind 52:1021-4 Je 11 '25
Testing gear centers. I. B. Rich. diags Am Mach 59:853 D 6 '23

GEARING—Testing—*Continued*
Wear of reduction gear teeth measured from plaster casts. H. B. Chapman. il diag Power 60:383-4 D 16 '24; Same. Am Mach 62:51-2 Ja 8 '25

See also Gear testing machines; Gearing, Non-metallic—Testing

GEARING, Annular
Annular gearing, its design and application. P. H. Bryant. diags Am Mach 60:125-8 Ja 24 '24; Discussion. B. L. Madden. 60:410 Mr 13 '24

GEARING, Bevel
Application of spiral bevel gears. F. E. McMullen. Am Mach 60:721-2 My 15 '24
History of spiral bevel gears. Mach 30:262 D '23
Machining a differential spider. F. Osgood. diags Am Mach 61:1005-6 D 25 '24
Planetary gearing. F. D. Furman. il diags Mach 31:379-82 Ja '25
Production of spiral bevel gears. il Automobile Eng 15:191-2 Je '25
Spiral bevel gear planing. il diags Engineer 140:112-14 Jl 31 '25; Abstract. Mech Eng 47:854-5 O '25
Suggestions which reduce cost when ordering bevel gears. W. G. Jones. Ind Eng 83:254 My '25
Testing and adjusting spiral bevel gear drives for automobiles. diags Am Mach 61:848-9 N 27 '24
Tooth bearing control for spiral bevel gears. C: H. Logue. il diags Am Mach 60:549-53 Ap 10 '24

GEARING, Epicyclic
Planetary gearing. F. D. Furman. diags Mach 30:938-41; 31:6-9, 95-8, 175-8, 311-14, 379-82, 468-72, 553-8, 635-9, 709-14, 803-7, 891-6, 973-8; 32:36-41 Ag '24-S '25
Umlaufräderwerke im hebezeugbau. G. W. Heinold. il diags Zeit Ver Deutsch Ing 68: 1191-4 N 15 '24

GEARING, Helical. See Gearing, Spiral

GEARING, Herringbone
Alignment of a herringbone gear on a tube mill. P. Lauzon. diag Eng & Min J 120:140-1 Jl 25 '25
Generating herringbone gears. W. E. Sykes. il diags Mach 32:233-6 N '25
Machining large herringbone gears. H. Campbell. il Am Mach 60:625-8 Ap 24 '24
Proposed standards for herringbone gears. F. A. Mickle and C: W. Good. Mech Eng 46: 718-19 N '24
Proposed standards for herringbone gears. H. P. Tiemann. Mech Eng 46:925-6 D '24
Sykes herringbone gear generator. il diag Iron Age 116:1189-91+ O 29 '25; Blast F & Steel Pl 13:456-8, 497-8 N-D '25; Am Mach 63:554-8 O 1 '25

GEARING, Non-metallic
Adopted standards for non-metallic gearing. diag Am Mach 60:48 Ja 10 '24
Horsepower of non-metallic gearing. Mach 32:195-6 N '25
Making and testing material for non-metallic gears. F. H. Colvin. il Am Mach 63:725-8 N 5 '25

Testing
Laboratory tests of non-metallic gears. H. R. Moyer. diags Am Mach 60:505-7 Ap 3 '24

GEARING, Spiral
Chart for designing spiral gears. T. C. Campbell. Mach 30:460-2 F '24
Cut steel helical gears v.s. cast iron. il Brick & Clay Rec 65:476+ S 30 '24
Graphical solution of helical gear problems. F. Szabo. diags plan Am Mach 60:391-4 Mr 13 '24
Helical gear problems simplified. O: M. Burkhardt. diags Am Mach 61:529-30 O 2 '24
Interference between helical gears on parallel shafts. J: B. Arnold. diags plan Mach 30:538-40 Mr '24
Noisy timing gears; causes and remedies. C. M. Aldrich. il diags Mach 31:116-21 O '24
Nouvelle machine à tailler les engrenages coniques hélicoïdaux, système Smith et Coventry. il diags Génie Civil 86:533-6 My 30 '25
Selection of milling cutters for helical involute teeth. E. Wildhaber. diags plan Am Mach 59:909-11 D 20 '23
Tooth contact in helical gears. A. H. Candee. diags Am Mach 62:457-61 Mr 19 '25; Correction. 62:620 Ap 16 '25

See also Gearing, Herringbone

GEARING, Spiral bevel. See Gearing, Bevel

GEARING, Spur
Albaugh-Dover ball bearing spur gear reducer. diag Power Pl Eng 29:566 My 15 '25
Calculator for horsepower of spur gearing. R. Johnson. Am Mach 62:13-16 Ja 1 '25; Discussion. H. W. Leet. 62:427 Mr 12 '25
Energieumformung durch zahnradvorgelege. diags Elektrotech Zeit (special no.) 45:37-9 Ag 28 '24
Increasing speeds with spur gear speed reducers. F. A. Emmons. Am Mach 62:960 Je 18 '25
Investigation of the efficiency and durability of spur gears. C. W. Ham and J. W. Huckert. il diags Ill U Eng Exp Sta Bul 149:1-92 [bibliog. p. 76-92] '25; Excerpt. Am Mach 63:613-14 O 15 '25; Same. Mech Eng 47:874 N '25; Same. Mach 32:197 N '25
Limiting cases in involute spur gearing. A. B. Cox. diags Mech Eng 46:683-91; Discussion. 691-2 N '24
Measuring spur gears by the use of pins. S. Trimbath. Am Mach 62:784 My 14 '25
New process of hobbing spur gears. N. Trbojevich. il diags Am Mach 62:337-41 F 26 '25
Rules for calculating spur gears; reference-book sheet. Am Mach 63:245 Ag 6 '25
Spur gear speed reducers. W. G. Jones. Am Mach 61:689-90 O 30 '24; Same cond. Ind Eng 83:155-6 Mr '25
Strength of spur gears. Automobile Eng 14: 262-4 S '24

GEARING, Worm
Cleveland worm gear reduction unit for direct connection to driven machine. il Iron Age 116:82 Jl 9 '25
Cutting worm-gears with an improvised hob. W. R. Stults. diags Mach 31:391-2 Ja '25
Interchangeable worm-and-gear speed reductions. G: L. Hedges. Mach 31:682-4 My '25
Molds emergency worm wheel. J. Edgar. diags Foundry 53:454-5 Je 1 '25
New enveloping worm gear. diags Mech Eng 46:354 Je '24
New line of worm gear speed reducers by the De Laval steam turbine co. il Iron Age 115:275 Ja 22 '25; Power 61:472 Mr 24 '25; Power Pl Eng 29:410 Ap 1 '25; Textile World 67:2355 Ap 4 '25; Blast F & Steel Pl 13:223-4 My '25
Recommended practice for the design of worm gearing. diags Am Mach 59:845-6 D 6 '23
Worm gear; its production and efficiency and its application to turbine reduction gearing. F. W. Lanchester. il Engineering 117:131-2 F 1 '24
Worm gear reductions for heavy service. H. E. Barr. il Am Mach 60:931-2 Je 19 '24

GEBER (Jabir ibn Hayyan)
Additional light on the Geber problem. Soc Chem Ind J (Chem & Ind) 43:87 Ja 25 '24
Writings of Geber. J. R. Partington. Soc Chem Ind J (Chem & Ind) 43:759-60 Jl 25 '24

GEIJER, Gottschalk, 1850-1924
Sketch. por Stahl & Eisen 44:1085-6 S 4 '24

GEISSLER tubes
Absorption and emission spectra of the Geissler discharge in mercury vapor and in mixtures of mercury and hydrogen. L: A. Turner and K. T. Compton. Phys R 25:606-12 My '25

GELATIN

Absorption spectrum of gelatin as a function of the hydrogen-ion concentration. H: P. Higley and J. H. Mathews. Am Chem Soc J 46:852-5 Ap '24

Amphoteric character of gelatine and its bearing on certain electrochemical phenomena. P. K. Frölich. il Am Electrochem Soc Trans v 46 (preprint 11):153-69 O '24

Density and hydration in gelatin sols. F. E. Brown. Am Chem Soc J 46:1207-9 My '24

Density and hydration in gelatin sols and gels. T. Svedberg. diag Am Chem Soc J 46:2673-6 D '24

Distribution of hydrogen ions between gelatine and water. I. I. Shukoff and S. A. Stschoukareff. J Phys Chem 29:285-94 Mr '25

Effect of hydrophilic colloids on size and distribution of particles in electrolytic precipitation; gelatin and basic lead carbonate. W. G. France and D. McBurney. Am Chem Soc J 46:540-4 Mr '24

Elasticity of gelatin in relation to pH and swelling. G. W. Scarth. bibliog J Phys Chem 29:1009-22 Ag '25

Gelatin in photography. S. E. Sheppard. Soc Chem Ind J (Chem & Ind) 44:84-5 Ja 23 '25

Gelatine; abstract. M. A. Rakusin. Soc Dyers & Col J 40:385 N '24

Glue and gelatin production (in pounds), 1922 and 1923. Survey of Cur Business 33:17 My '24

Hydrogen peroxide as a bleaching agent for gelatin. I. E. Weber. Soc Chem Ind J (Chem & Ind) 43:283 Mr 14 '24

Influence of gelatin on the transference numbers of hydrochloric acid. W. G. France and W. H. Moran. Am Chem Soc J 46:19-30 Ja '24

Influence of gelatin on transference numbers. G: Scatchard. Am Chem Soc J 46:2353-7 N '24

Influence of hydrogen-ion concentration on the optical rotation of gelatin. R. H. Bogue and M. T. O'Connell. Am Chem Soc J 47: 1694-7 Je '25

Influence of hydrogen-ion concentration on the protective action of gelatin on Zsigmondy's standard gold sol. H. V. Tartar and J. R. Lorah. J Phys Chem 29:792-8 Jl '25

Periodic precipitation in dilute gelatine gels. G. W. S. Blair. Philos Mag 6th ser 49:90-6, pl 3 Ja '25

Plasticity and structure in gelatin systems. R. H. Bogue. J Phys Chem 29:1233-8 O '25

Plasticity in relation to gelatin. S. E. Sheppard. J Phys Chem 29:1224-32 O '25

Points of minimum swelling of ash-free gelatin. J: A. Wilson. Am Chem Soc J 45:3139-40 D '23

Reaction between potassium persulphate and potassium iodide in gelatin sols. S. O. Rawling and J: W: Glassett. J Phys Chem 29:414-20 Ap '25

Second isoelectric point of gelatin. E. O. Kraemer. J Phys Chem 29:410-13 Ap '25

Studies of the optical activity of gelatin systems. E. O. Kraemer and J. R. Fanselow. J Phys Chem 29:1169-77 S '25

Surface concentration of gelatine at a liquid-gas interface as indicated by the change in surface tension. J. M. Johlin. diag J Phys Chem 29:271-84 Mr '25

Surface tension of gelatin solutions. C. E. Davis, H: M. Salisbury and M. T. Harvey. Ind & Eng Chem 16:161-3 F '24

Use of gelatine in glaze application. A. C. Gerber. Am Cer Soc J 7:494-7 Je '24

Valuation of glues and gelatines. S. N. Brown. Chem Age (Lond) 9:480-2 N 3 '23

See also Collagen

Advertising

Knox advertises medical value of gelatine to both physicians and consumers. C. B. Larrabee. Ptr Ink 126:61-2+ Mr 3 '24

Manufacture

Applied science in gelatine manufacture. C. Tyler. il diag Chem & Met Eng 32:553-6 Je '25

GELATIN as food

Food value of edible gelatin. T: B. Downey. Nation's Health 7:316-18 My '25

Gelatine you eat. A. G. Ingalls. il Sci Am 130:170 Mr '24

GELATINIZATION

Gelatinization of lignocellulose. A. W. Schorger. Ind & Eng Chem 16:141-4 F '24

GENERAL accident, fire and life assurance corporation

25th anniversary celebration, Philadelphia. A. L. J. Smith. Spectator 113:7-9 O 30 '24

GENERAL baking company

Annual report for 1923. Comm & Fin Chr 118: 682 F 9 '24

Annual report for the year ending December 27, 1924. Comm & Fin Chr 120:844 F 14 '25

GENERAL education board

General education board and the International education board. R. Savord. Special Lib 16:188-91 Je '25

GENERAL electric company, Schenectady, New York

Annual report, 32d, 1923. Comm & Fin Chr 118:1907 Ap 19 '24

Annual report, 33d, year ended Dec. 31, 1924. Comm & Fin Chr 120:1742 Ap 4 '25; J Elec 54:378 My 15 '25

Charles A. Coffin foundation awards to General Electric employees for 1924. Gen Elec R 28:277-9 Ap '25

Extreme variety versus standardization. J: H. Van Deventer; L. A. Hawkins. il diag plan Ind Management 66:253-64, 327-34; 67: 36-46, 81-8, 129-35, 303-8, 343-7 N '23-Mr, My-Je '24

General Electric assailed. Elec W 85:990 My 9 '25

General electric company. J Eng Educ 15: 732 Je '25

General electric company. Moody's Inv Serv 17:245-8 Jl 23 '25

General electric company's segregation plan. Bradstreet's 53:6 Ja 3 '25

General Electric from three angles. G. Swope. Pub Serv Management 38:53-5 F '25

General electric railway developments in 1923. W. D. Bearce. Aera 12:1017-20 Ja '24

General Electric transportation at the Schenectady works. G. Bartlett. il Management & Adm 10:191-4 O '25

Investigation continues. Elec W 86:83, 281-2 Jl 11, Ag 1 '25

Lamp manufacturers sued as monopoly. Elec W 83:637 Mr 29 '24

Relation of engineering education to industry. F. C. Pratt. Gen Elec R 28:468-71 Jl '25; Same. J Eng Educ 16:134-42 O '25

Research laboratory of the General electric company. L. A. Hawkins. Sibley J 37:127-9 Je '23

Safety standards in G-E plants. G: E. Wallis. il Nat Safety N 9:9-12 Ja '24

Senate orders investigation of General electric co. by Federal trade commission—alleged leader of power trust. Comm & Fin Chr 120:1048-9 F 28 '25

Steel foundry practice at Schenectady. L. S. Love. il Iron Age 114:815-19 O 2 '24

Three large manufacturing units created by growth of the electrical industry. il Ind Eng 83:2-5+ Ja '25

Various methods of eliminating the causes and reducing the number of accidents in plants of the General electric company. N. J. Darlin. Safety Eng 49:239-43 Je '25

Why our Dallas man calls our Erie manager Ed. H. F. Barnes. il System 45:634-6 My '24

Library

Selling the library to the company. il Lib J 50:354-5 Ap 15 '25

GENERAL gas and electric corporation

Annual report for the year ended December 31 1924. Comm & Fin Chr 120:2039-40 Ap 18 '25

GENERAL motors acceptance corporation
Financing the purchase of automobiles. C. H. Getz. Bankers M 108:869-72 Je '24
General motors acceptance corporation increases capital. Bankers M 108:447 Mr '24

GENERAL motors corporation
Annual report for the year 1923. Comm & Fin Chr 118:1550-4 Mr 29 '24; Abstract. Automotive Ind 50:736 Mr 27 '24
Annual report, 16th, for year ended December 31, 1924. Comm & Fin Chr 120:1609-13 Mr 28 '25
Capitalization of the General motors corporation. S. P. Meech. Univ J of Business 3: 413-18 S '25
Condensed consolidated income account six months ended June 30 1924 and 1923. Comm & Fin Chr 119:957 Ag 23 '24; Abstract. Bradstreet's 52:541-2 Ag 23 '24
Condensed consolidated income account six months ended June 30 1925 and 1924. Comm & Fin Chr 121:701-2, 723 Ag 8 '25
Dull second quarter cut G.M.'s earnings. Automotive Ind 51:378+ Ag 21 '24
General Motors announces plan for merger with Yellow cab co. Automotive Ind 53:71+ Jl 9 '25
General motors corporation. Moody's Inv Serv 16:33-6 Ja 17 '24
General motors corp. profits for first half of 1925 $28,271,000, greatest in history. Automotive Ind 53:190-1 Jl 30 '25
General Motors has plan to hold its key men. Ptr Ink 125:33-4+ N 15 '23
General Motors 1924 income $45,330,887. Automotive Ind 52:595+ Mr 26 '25
General Motors places its cars on non-competitive basis. G. A. Nichols. Ptr Ink 125: 17-19 D 13 '23
How work is progressing on the General Motors proving ground. il Automotive Ind 51: 531-2 S 18 '24
Mobilization of cash reserves; tuning up General Motors. A. H. Swayne. il Management & Adm 7:21-3 Ja '24
Most important thing I ever learned about management. A. P. Sloan, jr. System 46:137-41+ Ag '24
Organizing a great industrial: tuning up General Motors. C. S. Mott. chart Management & Adm 7:523-7 My '24
Pricing policy in relation to financial control. D. Brown. Management & Adm 7: 195-8, 283-6, 417-22 F-Ap '24
Quantity control of inventories. E. K. Wennerlund. Management & Adm 7:677-82 Je '24
Selling the automobile overseas: how General Motors' export business is handled. J. D. Mooney. il chart Management & Adm 8:27-32 Jl '24
"We face the future without fear, with faith" —Sloan. B. O. Forbes. Forbes 13:759-60+ Mr 29 '24

GENERAL motors export company
Profitable export market analysis; methods of American automotive manufacturers. G: F. Bauer. Management & Adm 9:561-4 Je '25

GENERAL motors research corporation
Kettering, the man who runs the fact factory, president of General motors research corporation. C. Patten. Forbes 14:652-4 S 1 '24

GENERAL petroleum corporation
Annual report, 8th, for fiscal year ended June 30 1924. Comm & Fin Chr 119:954-6 Ag 23 '24

GENERATORS, Electric. See Electric generators

GENERATORS, Radio. See Radio generators

GENETICS
Genetics and wool production. A. F. Barker. Textile Inst J 15:P134-40, P266-73, P524-35, P603-17 My, Jl, O, D '24

GENEVA, Switzerland
Water supply
La pose d'une conduite d'eau potable dans le lac Léman, à Genève. diag Génie Civil 86: 389 Ap 18 '25

GENEVA stop
Graphical analysis of the Geneva stop. C. M. Conradson. diags Mach 32:212-14 N '25

GENOA, Italy
Architecture
Forum studies of European precedents; baroque doorways in Genoa. il Arch Forum 41: 300a-h D '24
Harbor
Improving the port of Genoa. Am Ind 26:43-4 Ag '25

GENTIAN violet
Use of gentian violet broth on colon group of bacteria. J. J. Hinman, jr. Eng & Contr (W W) 62:367-8 Ag 13 '24

GENTIOBIOSE
Constitution of the disaccharides; gentiobiose; its identity with amygdalin biose. W. N. Haworth and B. Wylam. Chem Soc J 123: 3120-5 D '23
Relations between rotatory power and structure in the sugar group; the biose of amygdalin (gentiobiose) and its configuration. C. S. Hudson. Am Chem Soc J 46:483-9 F '24
Relations between rotatory power and structure in the sugar group; the rotation of the alpha form of methyl gentiobioside recently synthesized by Helferich and Becker. C. S. Hudson. Am Chem Soc J 47:872-3 Mr '25

GEOCHEMISTRY
Chemical composition of the earth. H: S. Washington. il Am J Sci 5th ser 9:351-78 My '25
Composition of the earth's crust. F. W. Clarke and H: S. Washington. U S Geol S Prof Pa 127:1-117 '24
Data of geochemistry. F. W. Clarke. 5th ed. U S Geol S Bul 770:1-841 '24
See also Geology; Mineralogy; Soil analysis; Soils

GEODESY
Astronomic determinations. S. Beall. il diags maps U S Coast & Geodetic S Special Pub 110:1-337 '25
Effect of variations in the assumed figure of the earth on the mapping of a large area. W. D. Lambert. U S Coast and Geodetic Survey 258:1-35 '24; Review. H. C. Mitchell. Eng N 93:111 Jl 17 '24; Discussion. 93:309 Ag 21 '24
Geodetic surveys: methods, instruments, and purposes. (Serial no. 257) 18p U.S. Coast and geodetic survey, Washington '24
Yellowhead base line. F. A. McDiarmid. il Can Eng 47:525-6 N 18 '24; Same. Eng & Contr (Ry) 62:1306-8 D 17 '24
See also United States—Coast and geodetic survey

GEODYNAMICS
Escape of heat from the earth's crust. J. R. Cotter. Philos Mag 6th ser 48:458-64 S '24
Geodynamische probleme. C. G: S. Sandberg. 2v Gebrüder Borntraeger, Berlin '24
See also Earthquakes

GEOGRAPHICAL positions
Astronomic determinations by United States Coast and geodetic survey and other organizations. S. Beall. 337p [bibliog. p. 279-81] U.S. Coast and geodetic survey, Washington '25

GEOGRAPHY, Commercial
Commerce and industry. J. R. Smith. new ed., enl. 769p Holt '25
Commercial geography. M. I. Newbigin. 256p Holt '24
Handbook of commercial geography. G: G. Chisholm. 10th ed., rev. 825p Longmans '25
Industrial geography, production, manufacture, commerce. R. H. Whitbeck. 608p Am. book co., New York '24
Our competitors and markets. A. W. Lahee. 477p Holt '24
Smaller commercial geography. G: G. Chisholm and J. H. Birrell. new ed. 302p Longmans '24
See also Natural resources

GEOGRAPHY, Economic

Economic geography. J: McFarlane. 2d ed., rev. & enl. 640p Pitman '23

Economic geography. R. H. Whitbeck and V. C. Finch. 550p McGraw-Hill '24

Economic geography of Europe. D. H. Smith. 247p [bibliog. p. 243] Longmans '25

Introduction to economic geography. W. D. Jones and D. S. Whittlesey. v. 1 375p, 366 il Univ. of Chicago press '25

GEOLOGICAL chemistry. See Geochemistry

GEOLOGICAL instruments

See Eötvös balance; Protractors

GEOLOGICAL maps

Colour printing of geological maps. C.-O. Senécal. Can Geol S Bul 39:1-4, pl 1-4 '25

Interpretation of topographic and geologic maps with special reference to determination of structure. C. L. Dake and J. S. Brown. 355p McGraw-Hill '25

GEOLOGICAL reports

Romance of the unknown in the preparation of geological reports. E. C. Andrews. Econ Geol 20:189-94 Mr '25

GEOLOGICAL surveys

Activities of geological surveys in southern states. W. G. Burroughs. Eng & Min J 120: 350 Ag 29 '25

State geological surveys and economic geology. E. DeGolyer. Econ Geol 20:376-81 Je '25

See also Geological maps; *also* Canada—Geological survey; United States—Geological survey

GEOLOGICAL time

Geologic time classification of the United States geological survey compared with other classification. M. G. Wilmarth. U S Geol S Bul 769:1-138, pl 1 '25

Geologic time scale. A. C. Lane. Eng & Min J 118:778 N 15 '24

Radioactive minerals as geological age indicators. H. V. Ellsworth. Am J Sci 5th ser 9:127-44 F '25

GEOLOGISTS

The geologist and the petroleum industry. E. De Golyer. Am Pet Inst Bul 5:1-4 D 11 '24; Same. Nat Pet N 16:45-6+ D 17 '24

See also Society of economic geologists; *also* names of geologists, e. g. Gale, Hoyt Stoddard

GEOLOGISTS, Mine

Geologic data in other than copper mines. G. N. Bjorge. Min Cong J 10:343-7 Ag '24

GEOLOGISTS, State

Directories

State geologists and engineers. Eng & Min J 119:150 Ja 17 '25

GEOLOGY

Bearing of the theory of isostasy on some major geological problems. W: Bowie. il diags maps J Fr Inst 198:181-97; Bibliography. 197-200 Ag '24

Economic geology. H. Ries. 5th ed., rev. 843p Wiley '25

Elements of geology. T. T. Quirke. 414p Holt '25

Engineering geology. H. Ries and T: L. Watson. 3d ed., rev. 708p Wiley '25

Establishment of isostasy. J: F. Hayford. W Soc E J 29:350-9; Discussion. 360-2 S '24

Geologie. R. Potonié and O: Seitz. 274p W. de Gruyter and co., Berlin, Leipzig '25

Geology—a growing science. E. S. Bastin. Eng & Min J 118:578-9 O 11 '24

Geology in its relation to landscape. J. Henderson. 152p Stratford co., Boston '25

Geology, physical and historical. H. F. Cleland. 718p American book co., New York '25

Introduction to physical geology, with special reference to North America. W: J. Miller. 435p Van Nostrand '24

Introductory geology for use in universities, colleges, schools of science, etc., and for the general reader. L; V, Pirsson and C: Schuchert. Wiley '24

Is geology in the doldrums? C: Keyes. Eng & Min J 118:541-2 O 4 '24

Microscope and the decadence of geology. Eng & Min J 118:82-3 Jl 19 '24; Discussion. 118:303-4 Ag 23 '24

Modern geology and its contribution to engineering. M. M. Leighton. il diags W Soc E J 28:491-506 N '23; Same (pt. 2). Eng & Contr (Ry) 62:623-6 S 17 '24

Origin of continents and oceans. A. L. Wegener. 212p Dutton '24

Out of doors with the earth. A. G. Ingalls. il Sci Am 132:365-7 Je '25

Pleistocene changes of level. R. A. Daly. Am J Sci 5th ser 10:281-313 O '25

Principles of stratigraphy. A. W. Grabau. 2d ed. 1185p A. G. Seiler, New York '24

Radioactivity in geology and cosmology. A. F. Kovarik and L. W. McKeehan. Nat Research Council Bul v 10, pt 1:135-52 Mr '25

Silurian. 794p Johns Hopkins press, Baltimore '23

Technische geologie. J. Stiny. 789p Verlag von Ferdinand Enke, Stuttgart '22

Useful aspects of geology. S. J. Shand. 207p Van Nostrand '25

See also Abrasives; Asbestos; Asphalt; Coal—Geology; Conglomerate; Continental shelf; Copper ores; Dikes (geology); Earth; Earthquakes; Erosion; Faults (geology); Folds (geology); Gas, Natural; Geochemistry; Geological surveys; Geological time; Geophysics; Geysers; Glacial epoch; Glaciers; Graphite; Gypsum; Hot springs; Isostasy; Lava; Limestone; Metals; Metamorphism; Mineralogy; Mines and mineral resources; Ocean; Oil shales; Ore deposits; Paleobotany; Paleontology; Peat; Petroleum—Geology; Phosphates; Quarries and quarrying; Rocks; Salt; Salt domes; Sand; Schists; Sedimentation and deposition; Shale; Soils; Sulfur; Volcanoes; Water, Underground

Bibliography

Bibliographie des sciences géologiques. Société géologique de France, Paris '23

Bibliography of North American geology for 1921-1922. J: M. Nickles. U S Geol S Bul 758: 1-273 '24

Geologic literature on North America, 1785-1918. J: M. Nickles. U S Geol S Bul 746:1-1167 '23; 747:1-658 '24

Geology of prospecting: survey and reports. W. H. Emmons. map Eng & Min J 117:114-15 Ja 19 '24

Index to separate reports 1906-1910 and summary reports 1905-1916. F. J. Nicolas, comp. 305p Geological survey of Canada, Ottawa '23

Published bibliographies in geology, 1896-1920. E: B. Mathews. Nat Research Council Bul v 6, pt 5:1-228 O '23

See also Geology—South Africa—Bibliography

History

First one hundred years of American geology. G: P. Merrill. 773p Yale univ. press, New Haven '24

Maps

See Geological maps; Mine maps

Alabama

Supplemental list of economic minerals and rocks of Alabama. W. B. Jones. Alabama Geol S Bul 30:1-15 '25

Alaska

Cold Bay-Chignik district, Alaska. W. R. Smith and A. A. Baker. maps U S Geol S Bul 755—D:151-218, pl 8-12 '24

Geology and mineral resources of the region traversed by the Alaska railroad. S. R. Capps. maps U S Geol S Bul 755—C:73-150, pl 1-6 '24

Geology of the Beatson copper mine, Alaska. A. M. Bateman. diag map plan Econ Geol 19:338-68 Je '24

GEOLOGY—Alaska—*Continued*

Notes on stratigraphy and Pleistocene fauna from Peard Bay, Arctic Alaska. C: E. Meek. 422p Univ. of Cal. press, Berkeley '23

Reconnaissance of the Point Barrow region, Alaska. S. Paige, W. T. Foran and J. Gilluly. diags U S Geol S Bul 772:1-33, pl 1-9 '25

Ruby-Kuskokwim region, Alaska. J. B. Mertie, jr. and G. L. Harrington. il maps U S Geol S Bul 754:1-129, pl 1-4 '24

Appalachian region

Native copper deposits of the South Atlantic states compared with those of Michigan. T: L. Watson. map Econ Geol 18:732-50; Bibliography. 751-2 D '23

Arizona

Geology and ore deposits of the Aravaipa and Stanley mining districts, Graham county, Arizona. C. P. Ross. diags map U S Geol S Bul 763:1-120, pl 1-13 '25

Geology of the Verde Central mine. J. L. Fearing, jr. and P. C. Benedict. diags maps Eng & Min J 119:609-11 Ap 11 '25

British Columbia

Cambrian geology and paleontology; geological formations of Beaverfoot-Brisco-Stanford range, British Columbia, Canada. C. D. Walcott. 51p Smithsonian inst., Washington '24

California

Geology and oil resources of a part of Los Angeles and Ventura counties, California. W: S. W. Kew. maps U S Geol S Bul 753: 1-202, pl 1-17 '24

Mineral resources of the Malibu ranch, California. E. B. Foster. il Eng & Min J 120: 308 Ag 22 '25

Rôle of heavy minerals in the Coalinga tertiary formations. R. D. Reed. diags Econ Geol 19:730-49 D '24

Canada

Bibliography

Index to separate reports 1906-1910 and Summary reports 1905-1916. F. J. Nicholas, comp. Canada. Geol. survey, Ottawa '23

Colorado

Camp Bird compound veindike. J. E. Spurr. diags map Econ Geol 20:115-52 Mr '25; Same. Eng & Min J 119:517-29 Mr 28 '25

Contribution to the igneous geology of central Colorado. R. D. Crawford. map Am J Sci 5th ser 7:365-88 My '24

Geology and coal resources of the Axial and Monument Butte quadrangles, Moffat county, Colorado. E. T. Hancock. diags map U S Geol S Bul 757:1-134, pl 1-19 '25

Geology and oil and gas prospects of part of Moffat county, Colorado, and Southern Sweetwater county, Wyoming. J. D. Sears. diags U S Geol S Bul 751—G:269-319, pl 35-7 '24

Geology and ore deposits of the Red Cliff district, Colorado. R. D. Crawford and R. Gibson. Colorado Geol S Bul 30:1-89 '25

Structures point to oil. map Pet Age 14:18+ N 1 '24

Bibliography

Bibliography of the geology of northeastern Colorado. J. H. Johnson, comp. 12p Colorado school of mines, Golden, Colo. '25

Bibliography of the geology of the Denver basin of Colorado. J. H. Johnson, comp. 7p Colorado school of mines, Golden '25

Connecticut

Pre-glacial course of the Connecticut river near Middletown, Connecticut, and its significance. M. H. Bissell. maps Am J Sci 5th ser 9:233-40 Mr '25

Ecuador

Geology of Guayaquil, Ecuador, South America. J. H. Sinclair and C: P. Berkey. il Am J Sci 5th ser 7:491-7 Je '24

Germany

Die tertiären quarzitlagerstätten unter besonderer berücksichtigung der vorkommen des rheinischen schiefergebirges. D. A. Hasebrink. bibliog Stahl & Eisen 44:1018-23 Ag 21 '24

Great Basin

Basin range structure in the Great Basin. G: D. Louderback. 376p Univ. of Calif. press, Berkeley '23

Great Britain

Introduction to stratigraphy (British Isles). L. D. Stamp. 368p T. Murphy & co., London '23

Greenland

Geology of North Greenland. L. Koch. maps Am J Sci 5th ser 9:271-85 Ap '25

Geology of northwest Greenland and its relation to the flora, fauna and people of the region. E. O. Hovey. Am J Sci 5th ser 8: 189-200 S '24

Haiti

Geology of the Republic of Haiti. W. P. Woodring, J: S. Brown and W. S. Burbank. 631p [bibliog. p. 596-607] Lord Baltimore press, l'ort-au-Prince, Baltimore '24

Idaho

Geology and water resources of the Goose Creek basin, Cassia county, Idaho. A. M. Piper. 78p Univ. of Idaho, Moscow '23

Gold veins of sundry areas in the Idaho batholith. F. A. Thomson. il diags maps Eng & Min J 118:533-40 O 4 '24

Illinois

Future of water reservoir projects in Illinois and their relationship to geologic data. M. M. Leighton. diag maps Am Water Works Assn J 11:770-80 Jl '24; Same. Eng & Contr (W W) 61:1061-5 My 14 '24

Oriskany rocks in Illinois. T. E. Savage. il Am J Sci 5th ser 10:139-44 Ag '25

Japan

Petroleum supply of Japan. A. H. Redfield. map Eng & Min J 120:325-33, 369-75, 410-19 Ag 29-S 12 '25

Kansas

Geology and invertebrate paleontology of the Comanchean and Dakota formations of Kansas. W: H: Twenhofel. 135p [bibliog. p. 90-4] Kansas geol. survey, Topeka '24

Kentucky

Geological research in Kentucky. W. R. Jillson. 228p Kentucky Geol. survey, Frankfort '23

Madagascar

Outline of the geology of Madagascar. J. Stansfield. map Am J Sci 5th ser 10:1-11 Jl '25

Maine

Contributions to the geology of Maine; a geological section from the Kennebec river to Penobscot bay. E: H. Perkins and E: S. C. Smith. maps Am J Sci 5th ser 9:204-28 Mr '25

Contributions to the geology of Maine; the igneous rock of Mt Kineo and vicinity. E: S. C. Smith. map Am J Sci 5th ser 10:437-44 N '25

Contributions to the geology of Maine; the Moose River sandstone and its associated formations. E: H. Perkins. map Am J Sci 5th ser 10:368-75 O '25

Massachusetts

Physical features of Central Massachusetts. W: C. Alden. il diags maps U S Geol S Bul 760-B:13-105, pl 6-22 '24

Mexico

Geological section along Rio de San Lorenzo, in Sinaloa, Mexico. W. H. Brown. diag Eng & Min J 120:691 O 31 '25

GEOLOGY—Mexico—*Continued*

Stratigraphy of the petroliferous area of eastern Mexico. W. A. VerWiebe. Am J Sci 5th ser 8:277-95, 385-94, 481-502 [bibliog. p. 501-2] O-D '24

Bibliography

Stratigraphy of the petroliferous area of eastern Mexico. W. A. Ver Wiebe. Am J Sci 5th ser 8:501-2 D '24

Minnesota

Sulphide diabase from Cook county, Minnesota. G. M. Schwartz. Econ Geol 20:261-5, pl 1 My '25

Missouri

Paleozoic formation margins in Missouri. E. B. Branson. map Am J Sci 5th ser 8:317-22 O '24

Structural reconnaissance of the Mississippi Valley area from Old Monroe, Missouri, to Nauvoo, Illinois. F. Krey. 86p Missouri. Bur. of geology and mines, Rolla '24

Subterranean stream piracy in the Ozarks; Ebb and flow springs in the Ozarks. C. L. Dake and J. Bridge. chart diags maps Mo U Sch Mines & Met Bul tech ser 7:1-26, pl 1-8 and pl 1-3 N '23

Mongolia

Explorations in the desert region of Central Asia. C: P. Berkey. diags map Am Soc C E Pro 50:606-15 My '24

Montana

Ekalaka lignite field, southeastern Montana. C. M. Bauer. map U S Geol S Bul 751—F:231-67, pl 30-4 '24

Geology and possible oil and gas resources of the faulted area south of the Bearpaw mountains, Montana. F. Reeves. diags map U S Geol S Bul 751—C:71-114, pl 10-14 '24

Geology of the Tullock Creek coal field, Rosebud and Big Horn counties, Montana. G. S. Rogers and W. Lee. il U S Geol S Bul 749:1-181, pl 1-16 '23

Melrose phosphate field, Montana. R. W. Richards and J. T. Pardee. U S Geol S Bul 780—A:1-32, pl 1-2 '25

Shallow folding and faulting around the Bearpaw mountains. F. Reeves. diags map Am J Sci 5th ser 10:187-200 S '25

Structure of the Bearpaw mountains, Montana. F. Reeves. il maps Am J Sci 5th ser 8:296-311 O '24

Nevada

Geology and ore deposits of the Manhattan district, Nevada. H: G. Ferguson. il diags maps U S Geol S Bul 723:1-163, pl 1-18 '24

Geology and ore deposits of the Rochester district, Nevada. A. Knopf. diags map U S Geol S Bul 762:1-78, pl 1-4 '24

Pre-triassic unconformity in southern Nevada. C. R. Longwell. diags maps Am J Sci 5th ser 10:93-106 Ag '25

Tonopah, Nevada's best-known silver district. H. D. Budelman. il map Eng & Min J 118:5-10 Jl 5 '24

New Jersey

Ore deposition at Franklin Furnace, New Jersey. J. E. Spurr and J. V. Lewis. il diags map plan Eng & Min J 119:317-28 F 21 '25

New Mexico

Chino enterprise; geology of Santa Rita. T. A. Rickard. map Eng & Min J 116:981-5 D 8 '23

New York (state)

Finger Lakes of central New York. V. E. Monnett. il map Am J Sci 5th ser 8:33-53 Jl '24

Geology of the Ausable quadrangle. J. F. Kemp and H. L. Alling. il maps N Y State Museum Bul 261:1-126, pl 1-12 '25

Geology of the Gouverneur quadrangle. H. P. Cushing and D. H. Newland. il diags maps N Y State Museum Bul 259:1-122, pl 1-14 '25

Utica and Lorraine formations of New York. R. Ruedemann. il maps N Y State Museum Bul 258:1-175 [bibliog. p. 168-71], pl 1-7; 262:1-171, pl 1-13 '25

New Zealand

Pre-Cambrian complex and pyrrhotite bands, Dusky Sound, New Zealand. J. Park. Econ Geol 19:750-5 D '24

North America

Bibliography

Bibliography of North American geology for 1921-1922. J: M. Nickles. U S Geol S Bul 758:1-273 '24

Geologic literature on North America, 1785-1918. J: M. Nickles. U S Geol S Bul 746 pt 1:1-1167 '23; 747 pt 2:1-658 '24

North Carolina

Pyrophyllite deposits of the Deep River region of North Carolina. J. L. Stuckey. bibliog il map Econ Geol 20:442-63, pl 1-2 Ag '25

North Dakota

Story of the prairies. D. E. Willard. 10th ed. rev. 375p Webb pub. co., St Paul, Minn. '23

Norway

Fen area in Telemark, Norway. N. L. Bowen. Am J Sci 5th ser 8:1-11, pl 1-3 Jl '24

Ohio

Geology of Columbiana county. W. Stout and R. E. Lamborn. Ohio Geol S Bul 28:1-408 '24

Oklahoma

Geology of the Bristow quadrangle, Creek county, Oklahoma, with reference to petroleum and natural gas. A. E. Fath. maps U S Geol S Bul 759:1-63, pl 1-13 '25

Geology of the Stonewall quadrangle, Oklahoma. G: D. Morgan. 248p Oklahoma Bur. of geology, Norman '24

See also Petroleum—Oklahoma

Ontario

Geology of the Pearl Lake area, Porcupine district, Ontario. H. S. Robinson. il plan Econ Geol 18:753-71 D '23

Study of the Sudbury ore deposits. A. Wandke and R. Hoffman. diags Econ Geol 19:169-204, pl 5-6 Mr '24; Discussion. A. P. Coleman. 19:565-76 S '24

Pacific coast

Correlation of the Mesozoic formations of the Pacific coast of North America. R. W. Goranson. Am J Sci 5th ser 8:61-78, 159-82 [bibliog. p. 180-2] Jl-Ag '24

Pennsylvania

Loyalhanna limestone of southwestern Pennsylvania especially with regard to its age and correlation. C: Butts. il Am J Sci 5th ser 8:249-57 S '24

Persia

Geology and oil measures of south-west Persia. R. K. Richardson. il diags map Inst Pet Tech J 10:256-83; Discussion. 284-96 Je '24

South Africa

Bibliography

Subject index to the literature on the geology and mineral resources of South Africa. A. L. Hall. 384p Union of South Africa, Dept. of mines and industries, Pretoria '24

South Dakota

Geology of the Etta spodumene mine, Black Hills, South Dakota. G. M. Schwartz. bibliog diags Econ Geol 20:646-59 N '25

Geology of the region around Lead, South Dakota, and its bearing on the Homestake ore body. S. Paige. maps U S Geol S Bul 765:1-58, pl 1-11 '24

Lance problem in South Dakota. F. Ward. Am J Sci 5th ser 7:65-8 Ja '24

GEOLOGY—*Continued*

Texas

Geology and mineral resources of McLennan county. W. S. Adkins. maps Texas U Bul 2310:1-202 pl 1-4 '23

Geology and natural resources of Colorado county. T. L. Bailey. maps Texas U Bul 2333:1-159, pl 1-6 '23

Geology and the location of dams in west Texas. L. T. Patton. Econ Geol 19:756-61 D '24

Geology and the location of dams on the Canadian river, Texas. L. T. Patton. Econ Geol 20:464-9 Ag '25

Geology of Potter county. L. T. Patton. maps Texas U Bul 2330:1-180, pl 1-8 '23

Geology of the coastal plain of Texas west of Brazos river. A. Deussen. U S Geol S Prof Pa 126:1-139 '24

See also Petroleum—Texas; Salt domes

Trinidad

Geological notes on a part of southern Trinidad, B. W. I. C: G. Carlson. diag map Econ Geol 20:153-67 Mr '25

Utah

Geologic structure of San Juan Canyon and adjacent country, Utah. H. D. Miser. U S Geol S Bul 751—D:115-55, pl 15-20 '24

Venezuela

Venezuelan stratigraphy. C. J. Maury. Am J Sci 5th ser 9:411-14 My '25

Washington (state)

Devonian orcas group of Washington. R. D. McLellan. Am J Sci 5th ser 8:217-22 S '24

West Virginia

Mineral and Grant counties. D: B. Reger and R. B. Tucker. 866p Morgantown ptg. & binding co., Morgantown, W. Va. '24

Wyoming

Oil and gas fields of the Lost Soldier-Ferris district, Wyoming. A. E. Fath and G. F. Moulton. maps U S Geol S Bul 756:1-57, pl 1-8 '24

GEOMETRICAL drawing

Freehand drafting. A. E. Zipprich. 131p Van Nostrand '24

See also Graphic methods; Mechanical drawing

GEOMETRY

Formulas for values of geometric measurements. Foundry 53:62a Ja 15 '25

Geometrical note on de Sitter's world. P. Du Val. diags Philos Mag 6th ser 47:931-8 My '24

Geometry of the complex domain. J. L. Coolidge. 242p Oxford '24

Plane and solid geometry. A. Schultze and F. L. Sevenoak. rev. ed. 480p Macmillan '25

See also Angles; Hyperspace; Triangles

GEOMETRY, Analytic

Analytic geometry. R. W. Brink. 274p Century co. '24

Analytic geometry. A. M. Harding and G: W. Mullins. 312p Macmillan '24

Analytic geometry. W. A. Wilson and J. I. Tracey. rev. ed. 298p Heath '25

Analytic geometry and calculus. B. H. Crenshaw and C. D. Killebrew. 222p Blakiston '25

Brief course in analytic geometry and the elements of curve-fitting. W. B. Ford and R. W. Barnard. 292p Holt '24

See also Conic sections

GEOMETRY, Descriptive

Descriptive geometry. H. W. Miller. 5th ed., rev. 163p Wiley '24

Practical descriptive geometry. W: G. Smith. 3d ed. 281p McGraw-Hill '25

GEOMETRY, Differential

Geometry of paths. T. Y. Thomas. p. 551-608 Princeton univ. press, Princeton, N.J. '24

GEOMETRY, Plane

Beginner's geometry. R. R. Smith. 327p Macmillan '25

College geometry. N. A. Court. 254p Johnson pub. co., Richmond, Va. '25

New plane geometry. F. Durell and E. E. Arnold. 327p Charles E. Merrill co., New York and Chicago '24

Plane geometry. R. A. Avery. 319p Allyn & Bacon, Boston, New York '25

Plane geometry. A. Schultze and F. L. Sevenoak. rev. ed. 317p Macmillan '25

Plane geometry. F. E. Seymour. 333p Am. book co., New York, Cincinnati '25

GEOMETRY, Projective

Les lieux géométriques en mathématiques spéciales. T. Lemoyne. 146p Vuibert, Paris '23

Projective geometry of Galileian spacetime. L. Silberstein. Philos Mag 6th ser 50:681-96 O '25

Projective geometry, with applications to engineering. P: Field. 98p Van Nostrand '23

GEOMETRY, Solid

Solid geometry, J: W. Young and A. J. Schwartz. p. 275-399 Holt '25

GEOPHONE

Geophone. Brass W 19:399 D '23

Geophone. Sci Am 130:131 F '24

Geophone in the water works department. D. R. Taylor. Eng & Contr (W W) 62:59-60 Jl 9 '24

Improvement of the geophone by the use of electrical sound amplifiers. W. T. Ackley, jr. and C. M. Ralph. diags U S Bur Mines Rep of Invest 2639:1-5 S '24 (typew); Abstract. J Fr Inst 198:834-5 D '24

Locating leaks in underground pipe lines with the geophone. il diags Heat & Ven 20: 50-1 N '23

GEOPHYSICAL laboratory. See Carnegie institute of Washington—Geophysical laboratory

GEOPHYSICS

Direct proof that the earth has an electrical charge. C. Ramsauer. J Fr Inst 199:118 Ja '25

Geophysical surveys as aids to the geologist. E. H. C. Craig. Inst Pet Tech J 10:818-20 N '24

Presidential address to the British association. H. Lamb. Engineering 120:267-9 Ag 28 '25

See also Atmospheric electricity; Auroras; Earth movements; Geodynamics; Magnetism, Terrestrial; Meteorology

GEORGIA

Appeal to Georgia which fits every state in the South. J. M. Brown. Manuf Rec 88:77-8 Jl 9 '25

See also Floods—Georgia; Hydroelectric plants—Georgia; Roads—Georgia

Industries and resources

Census of Georgia manufactures, 1923. Manuf Rec 87:80 My 14 '25

Georgia rolls up her sleeves. M. Thorpe. il Nation's Business 12:29-31 Ap '24

Georgia—the empire state of the South. C. Walker. il Manuf Rec 86:368; Statistics. 373 pt 2 D 11 '24

See also Gasoline industry—Georgia; Mines and mineral resources—Georgia

Social conditions

Negro migration from Georgia. Monthly Labor R 18:32-5 Ja '24

GEORGIA, Transcaucasia

Industries and resources

Water power or mineral oil in Georgia. H: L. Geissel. Elec W 86:465 S 5 '25

See also Mines and mineral resources—Georgia, Transcaucasia

GEORGIA and Florida railway

Report of receiver, Aug. 12, 1925. Comm & Fin Chr 121:1343-4 S 12 '25

Statement of the receiver. Comm & Fin Chr 119:1278-80 S 13 '24

GEORGIA railway and power company
Annual report—for the year 1923. Comm & Fin Chr 118:1284-5 Mr 15 '24
Annual report for the year 1924. Comm & Fin Chr 120:1902-3 Ap 11 '25

GERHARDT cycleplane. See Cycleplane

GERMAN indemnities
Acceptance by German Reichstag of London agreement on Dawes proposals. Comm & Fin Chr 119:1011-12 Ag 30 '24
Accomplishments during first year of operation of Dawes plan—German press and other comment. Comm & Fin Chr 121:1166-7 S 5 '25
Activities of the Dawes committee. N. Roosevelt. Annalist 23:181+ F 4 '24
Agreement between Great Britain and Germany for recovery of 26% duty under Reparations act. Comm & Fin Chr 120:2097-8 Ap 25 '25
Allied reparations commission approves Dawes and McKenna reports on Germany. Comm & Fin Chr 118:1849-51 Ap 19 '24
Allied reparations commission to name committee to inquire into Germany's capacity to pay reparations; American and British chosen to serve with committees. Comm & Fin Chr 117:2391-3, 2601-2, 2833 D 1, 15, 29 '23
Anglo-German trade. Index p 13-14 My '25
Baron Von Maltzan, new German ambassador to the United States, says Germany will fulfil obligations under Dawes plan. Comm & Fin Chr 120:1407-8 Mr 21 '25
Bearing of the Dawes plan on our allied debts. G: E. Roberts. Econ W n s 27:917-19 Je 28 '24; Same abr. Am Bankers Assn J 16:795+ Je '24
Col. James A. Logan, jr., resigns as unofficial observer on the Reparations commission. Comm & Fin Chr 120:2881-2 Je 6 '25
Confidence follows the Dawes plan. P. M. Warburg. Am Ind 25:37 O '24
Dawes committee report. Bradstreet's 52:237 Ap 12 '24
Dawes payments face block: ways out devised by international chamber. E. G. Rich. Annalist 25:739 Je 1 '25
Dawes plan. Index p 10-11 Jl; p 3-4 S '25
Dawes plan. E. M. Patterson and others. Ann Am Acad 120:1-35 Jl '25
Dawes plan. T: L. Robinson; O. D. Young. Comm & Fin Chr 119:2482-3 N 29 '24
Dawes plan and the effect of its operation. J: E. Barber. Comm & Fin Chr 119:1349 S 20 '24
Dawes plan terms fulfilled by Berlin. Comm & Fin Chr 119:1799-1800 O 18 '24
Dawes reparations plan: its guiding principles and the manner of its adoption. O. D. Young. Econ W n s 28:868-72 D 20 '24; Same. Comm & Fin Chr 119:2956-8 D 27 '24
Dawes reparations plan operative. Comm & Fin Chr 119:1125-6 S 6 '24
Dawes reparations report. S. Bell. Comm & Fin 13:745-6 Ap 16 '24
The Dawes report. Economist 98:sup1-6 My 31 '24
Dawes report. N: Roosevelt. Annalist 23:452+ Ap 14 '24
Dawes report—a business man's view. J. H: Scattergood. Ann Am Acad 114:15-25 Jl '24
Difficulties of a great international loan to Germany for use in paying reparations. B. M. Anderson, jr. Econ W n s 27:377-8 Mr 15 '24
Economics of the Dawes report and the London agreement. C. W. Guillebaud. Econ J 34:540-55 D '24
Effects of German reparations payments upon the national economy of France. E. L. James. Econ W n s 28:114-16 Jl 26 '24; Same. Am Bankers Assn J 17:23-4+ Jl '24
English banking opinion about recent developments in the matter of German reparations payments. Econ W n s 30:125-7 Jl 25 '25
Europe at the cross-roads; the Dawes committee report. C. Hodges. Annalist 23:453-4 Ap 14 '24
European reconstruction and the Dawes plan. Bankers M 109:1113+ D '24
Europe's return to sanity; Dawes and McKenna reports. Moody's Inv Serv 16:209-15 My 22 '24
Evolution of the Dawes reparations plan. G: W. Edwards. Econ W n s 28:665-6 N 8 '24
Facing the facts of the transfer problem. J. Stamp. Annalist 26:181 Ag 14 '25
Federal advisory council urges Federal reserve board to take part in promoting Dawes plan. Comm & Fin Chr 118:2518-19 My 24 '24
First year of the Dawes plan. D. P. Myers. Econ W n s 30:341-3 S 5 '25
French Chamber and Senate uphold Premier Herriot on agreement reached at International conference at London—1921 reparations penalties stand. Comm & Fin Chr 119:1009-10 Ag 30 '24
French industries and the Dawes plan. Am Mach 61:714e O 30 '24
Further banking opinion on Dawes plan. Bankers M 110:57+ Ja '25
German industrial debentures. Index p 12-13 F '25
German industrial debentures under the Dawes plan. C. C. Miller. Econ W n s 29:294-5 F 28 '25; Same. Am Ind 25:45+ Mr '25
German industry and reparation. Moody's Inv Serv 17:41-4 Ja 29 '25
German Reichstag approves Chancellor Marx stand in support of Dawes report. Comm & Fin Chr 118:2765-6 Je 7 '24
German reparation receipts and payments for period ended March 31, 1925. Comm & Fin Chr 120:2098 Ap 25 '25
German reparation receipts and payments for period ended April 30 1925. Comm & Fin Chr 120:2882 Je 6 '25
German reparation receipts and payments for year ended Aug. 31, 1925. Comm & Fin Chr 121:1862-3 O 17 '25; Summary. Econ W n s 30:487 O 3 '25
German reparation receipts in 1924 286,263,447 gold marks—payments amount to 280,291,415 gold marks. Comm & Fin Chr 120:774-5 F 14 '25
German viewpoint on the Dawes plan. Chem & Met Eng 31:416 S 15 '24
Germany and the Dawes plan. A. G. Goldsmith. Am Ind 25:33+ S '24
Germany criticizes Dawes plan. Ry Age 77:520-1 S 20 '24
Germany's balance of payments under Dawes plan. Comm & Fin Chr 121:656 Ag 8 '25
Germany's response to the Dawes plan outlined and discussed. Am Mach 61:442a-b S 11 '24
Great adjustment case; the significance of the Dawes plan and what may come of it. J. W. Jenks. Credit M 26:7-8+ S '24
His job—to make Dawes plan work. C. W. Gilbert. Burroughs Clearing House 9:5-7+ D '24
History of the reparations question. Economist 98:sup7-14 My 31 '24
How is the Dawes plan working? R. C. Long. Am Bankers Assn J 18:9-11 Jl '25
How will Germany pay reparations. M. Seckel. Am Ind 25:43-5 Ag '24
Increasing use of deliveries in kind as means of reparations payments. Econ W n s 30:199 Ag 8 '25
Die industrie-obligationen in der reparationspolitik. E. Guggenheimer. Stahl & Eisen 44:1037-42 Ag 28 '24
Inter-allied conference in London. Comm & Fin Chr 119:403-6, 534-6, 642-5, 760-3, 887-94 Jl 26-Ag 23 '24
Inter-allied conference in London July 16 on Dawes report—participation by United States. Comm & Fin Chr 118:3152-3 Je 28 '24
Italian view of the Dawes plan. D. Gidoni. Bankers M 109:918-20 N '24
London agreement. Index p 3-5 S '24
New light on the Dawes plan. J: F. Fennelly. Comm & Fin 14:1581-2 Ag 19 '25
Official summaries of the reports to the reparations commission of the so-called Dawes and McKenna committees. Econ W n s 27:557-9 Ap 19 '24

GERMAN indemnities—*Continued*
Outlook for the Dawes plan. Comm & Fin Chr 120:3248-9 Je 27 '25
Paris financial agreement. Economist 100:90-2 Ja 17 '25
A paymaster of reparations. E. L. James. il Am Bankers Assn J 16:707-9 My '24
Possibility of a demand from debtor countries to pay in goods instead of money. A. R. Marsh. Econ W n s 27:183-4 F 9 '24
Probable economic and financial effects of a reparations settlement on the United States. Econ W n s 27:773-4 My 31 '24
Problems of the Dawes report. H. Schacht. Bankers M 109:553-7 O '24
Recent history of the reparation question. Economist 101:supl-9 Jl 18 '25
Reparation and international trade. Economist 101:137-8 Jl 25 '25
Reparation problem, 1918-1924. U S Bur For & Dom Com Trade Information Bul 278:1-50 '24
Reparation report. Index p 3-4 Ap '24
Reparation; the Dawes report. p. 329-444 World peace foundation, 40 Mt. Vernon st., Boston '23
Reparations and Germany's trade balance. A. French. Annalist 26:118 Jl 31 '25
Reparations and inter-allied debt payments in relation to British trade. Econ W n s 29:413-14 Mr 21 '25
Reparations and the British engineering industry. Engineering 118:695, 725, 757 N 21-D 5 '24
Reparations or competition? A. H. Temple. Comm & Fin 13:1647 S 3 '24
Reparations report. Nat City Bank p 65-71 My '24
Reparations settlement. Moody's Inv Serv 16:349-50 S 18 '24
Der reparationsreport mit seinen licht- und schattenseiten. J. W. Reichert. Stahl & Eisen 44:751-3 Je 26 '24
Report and recommendations of Dawes and McKenna committees inquiring into Germany's resources. Comm & Fin Chr 118: 1729-31 Ap 12 '24
Report of experts to Reparation commission. Fed Res Bul 10:325-31, 351-417 My '24
Report of S. Parker Gilbert, jr. on achievements under Dawes plan. Comm & Fin Chr 120:3135-6 Je 20 '25
Report of the agent general for reparation payments; abstracts. S. P. Gilbert. Fed Res Bul 11:550-9 Ag '25; Nat City Bank p 136-8 Ag '25
Report of the Dawes committee. B: M. Anderson, jr. Chase Econ Bul 4:1-30 Ap '24; Excerpt. Econ W n s 27:629-31 My 3 '24
Report of the experts; comment on the Dawes-McKenna recommendations. Index p 3-9 My '24; Same. Econ W n s 27:726-8 My 24 '24
Sachleistungen und barübertragungen seit dem inkrafttreten des Dawes-p'anes. M. Hahn. Stahl & Eisen 45:1525-31 S 3 '25
Sir Josiah, the Dawes plan, and America at Brussels. W: F. Collins. Annalist 26:83 Jl 24 '25
Some difficulties in the way of the success of the Dawes plan. Econ W n s 29:450 Mr 28 '25
Summary of the London agreement. Economist 99:305-6 Ag 23 '24
Transfer of German reparations payments to Belgium through commercial transactions. Econ W n s 30:559 O 17 '25
Transfer problem; an official view. S. P. Gilbert. Annalist 26:147 Ag 7 '25
Two "ifs" in the reparations plan. R. C. Long. Am Bankers Assn J 16:769-70+ Je '24
Views Dawes' report as encouraging and reassuring. O: H. Kahn. Comm & Fin Chr 118:1992-3 Ap 26 '24
Views on Dawes' plan; return of General Dawes and other Americans who assisted in drawing up experts' reports on German reparations. Comm & Fin Chr 118:2123-6 My 3 '24
Das wesentliche des Dawes-berichtes. Elektrotech Zeit 45:545-7 My 29 '24
What hope for the Dawes plan? S. Bell. Comm & Fin 14:1267 Jl 1 '25
What the Dawes plan means to industry and the world. H. Hoover and others. Eng N 93:997-8 D 18 '24
What the Dawes plan means to the world. Eng N 93:419-20 S 11 '24; Same. Nat City Bank p 145-8 S '24; Same abr. Econ W n s 28:472-4 O 4 '24
Will America let Germany pay? unless we accept large excess imports from her, reparations will fail. E. E. Agger. Annalist 23:366+ Mr 24 '24
Die zukunft der reichsbahnen. D. G. Franke. Stahl & Eisen 44:1069-74 S 4 '24

See also Reparations commission, 1924

American claims

Agreement on American claims at Paris conference. Bradstreet's 53:49 Ja 17 '25
Immediate payment to claimants against Germany. Am Bankers Assn J 17:692 My '25
Paris agreement and Senate critics. Bradstreet's 53:65 Ja 24 '25
Reply of Secretary Hughes to Senate resolution calling for information regarding Paris agreement for payment of U.S. war claims out of Dawes plan annuities. Comm & Fin Chr 120:659-60 F 7 '25
Senate resolution calling for information from Secretary Hughes regarding agreement signed at conference of allied finance ministers providing for payment of United States war claims under Dawes plan. Comm & Fin Chr 120:404-8 Ja 24 '25
Settlement of American claims against Germany arising from the war. A. J. Wolfe. Econ W n s 27:89-90 Ja 19 '24
Text of agreement, signed at conference of allied finance ministers regarding distribution of Dawes annuities. Comm & Fin Chr 120:771-4 F 14 '25
United States and the distribution of Germany's reparations payments. Econ W n s 29:235 F 14 '25; Same. Nat City Bank p 28-9 F '25

Belgian claims

Amount of Belgium's reparations claims against Germany. Econ W n s 29:199 F 7 '25

GERMAN language
Polyglot paper lexicon; list of German, English and French equivalent terms. Paper 35:50+ F 12 '25

GERMAN silver. See Nickel silver

GERMANITE
Analysis of the new germanium-gallium mineral, germanite. F. W. Kriesel. Soc Chem Ind J (Abstracts) 44:102-3 F 20 '25
Germanium; the mineral germanite and the extraction of germanium and gallium therefrom. J: S. Thomas and W: Pugh. il Chem Soc J 125:816-26 Ap '24

GERMANIUM
Aromatic derivatives of germanium. G. T. Morgan and H. D. K. Drew. diag Chem Soc J 127:1760-8 Ag '25
Germanium; germanium glasses. L. M. Dennis and A. W. Laubengayer. Am Chem Soc J 47:1945-7 Jl '25
Germanium; germanium tetra-ethyl—preparation and purification of zinc diethyl—analysis by combustion of a liquid containing carbon and hydrogen. L. M. Dennis and F. E. Hance. diags Am Chem Soc J 47:370-7 F '25
Germanium; tetra-alkyl and tetra-aryl compounds of germanium; germanium tetra-ethoxyl. D. L. Tabern, W. R. Orndorff and L. M. Dennis. Am Chem Soc J 47:2039-44 Jl '25
Germanium; the mineral germanite and the extraction of germanium and gallium therefrom. J: S. Thomas and W: Pugh. il Chem Soc J 125:816-26 Ap '24
Germanium; the physical properties of monogermane. R. B. Corey, A. W. Laubengayer and L. M. Dennis. diag Am Chem Soc J 47: 112-17 Ja '25

GERMANIUM—*Continued*
Marketing of rare metals and minerals. H. C. Meyer. Eng & Min J 118:286 Ag 23 '24
New sources of germanium in the United States. C: James. Chem Age 31:512 N '23
Revision of the atomic weight of germanium. G. P. Baxter and W: C: Cooper, jr. diags J Phys Chem 28:1049-66; 29:1364-78 O '24, N '25
Revision of the atomic weight of germanium; the analysis of germanium tetrachloride. G. P. Baxter and W: C: Cooper, jr. diags J Phys Chem 28:1049-66 O '24

Analysis

Germanium; the determination of germanium. E. B. Johnson and L. M. Dennis. Am Chem Soc J 47:790-3 Mr '25

GERMANIUM dioxide
Allotropy of germanium dioxide. H. R. Blank. 28p Univ. of Penn., Philadelphia '24
Allotropy of germanium dioxide. J: H. Müller and H. R. Blank. Am Chem Soc J 46:2358-67 N '24

GERMANIUM hydrides
Germanium; the hydrides of germanium. L. M. Dennis, R. B. Corey and R. W. Moore. diags Am Chem Soc J 46:657-74 Mr '24

GERMANIUM tetrabromide
Aromatic derivatives of germanium. G. T. Morgan and H. D. K. Drew. diag Chem Soc J 127:1760-8 Ag '25
Revision of the atomic weight of germanium; the analysis of germanium tetrabromide. G. P. Baxter and W: C: Cooper, jr. diag J Phys Chem 29:1364-78 N '25

GERMANIUM tetrachloride
Dielectric constant of germanium tetrachloride. M. E. Lear. J Phys Chem 28:889-90 Ag '24
Revision of the atomic weight of germanium; the analysis of germanium tetrachloride. G. P. Baxter and W: C: Cooper, jr. diags J Phys Chem 28:1049-66 O '24

GERMANIUM tetra-ethyl
Germanium; germanium tetra-ethyl—preparation and purification of zinc diethyl—analysis by combustion of a liquid containing carbon and hydrogen. L. M. Dennis and F. E. Hance. diags Am Chem Soc J 47:370-7 F '25

GERMANIUM tetrahalides
Researches on residual affinity and co-ordination interactions of germanium tetrahalides and β-diketones. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:1261-9 Je '24

GERMANY
Austria and Germany. Economist 101:484-6 S 26 '25
Germany lays down conditions for entering League of nations. Comm & Fin Chr 120:36 Ja 3 '25
Germany may enter League of nations but on same conditions as others. Comm & Fin Chr 120:1407 Mr 21 '25
Inter-allied control commission reports on Germany's military status. Comm & Fin Chr 120:890-1 F 21 '25
Violation of Versailles treaty by Germany cited in note of Allies—disarmament by Germany called for. Comm & Fin Chr 120: 3143-6 Je 20 '25

See also Electric plants (central stations) —Germany; Electricity supply—Germany; Geology—Germany; Housing—Germany; Hydroelectric plants—Germany; Insurance companies—Germany; Radio broadcasting—Germany; Radio communication—Germany; Radio stations—Germany; Railroads—Germany; Railroads and state—Germany; Telephone—Germany; Water power—Germany

Commerce

Anglo-German trade. Index p 13-14 My '25
Balance of trade in France and Germany. Economist 100:796-7 Ap 25 '25
Die deutsche wirtschaft im ersten halbjahr 1925. H. Lewe. Elektrotech Zeit 46:1177-82 Ag 6 '25
Foreign capital finances huge German import trade—balance of trade in 1924 largest on record. Comm & Fin Chr 120:1955-6 Ap 18 '25
Foreign commerce of Germany in 1924. Econ W n s 29:411 Mr 21 '25
German cities lean to made-in-America label. Ptr Ink 132:10+ Jl 9 '25
Germany in the Orient. Index p 10-11 Ag '25
Germany is relaxing export control and abolishing foreign trade boards. Oil Paint & Drug Rep 106:19 S 1 '24
Germany's adverse balance. Moody's Inv Serv 17:355 O 29 '25
Germany's fight for Latin American trade. H. G. Knowles. Am Ind 25:33-4 My '25
Germany's foreign commerce in 1924 compared with 1923. Econ W n s 28:267 Ag 23 '24
Germany's trade balance. J. Herle. Bankers M 110:1025-7 Je '25
How the Dawes plan is affecting our foreign trade. J: R. Robinson. Ptr Ink 129:61-2+ N 13 '24
Die im jahre 1924 abgeschlossenen handelsverträge. F. Baare. Stahl & Eisen 45:114-20 Ja 22 '25
Persisting adverse balance of Germany's foreign trade. Econ W n s 29:763-4 My 30 '25
Present situation of trade between the United States and Germany. A: G. Goldsmith. Econ W n s 27:796-7 Je 7 '24
Reparations and Germany's trade balance. A. French. Annalist 26:118 Jl 31 '25
Some danger signals for American industries. C: H. Herty. Manuf Rec 88:57-9 O 29 '25
Some possibilities of economic collaboration with Germany. Economist 100:1230-1 Je 20 '25
What of German imports since the war? C: G. Miller. Ptr Ink 129:137-8+ N 6 '24

See also Aeronautics, Commercial—Germany; Cotton trade—Germany; Merchant marine—Germany; Tariff—Germany

Commercial policy

La politique commerciale du Reich. G. Wernlé. Chimie & Ind 13:154-6 Ja '25
Die veränderten grundlagen der handelspolitik. J. W. Reichert. Stahl & Eisen 45:540-4 Ap 9 '25

Commercial treaties

German Reichstag ratifies commercial treaty between United States and Germany—commercial accord between France and Germany. Comm & Fin Chr 121:1173-4 S 5 '25
Signing of new commerce treaty between United States and Germany—belief of shipping men that it nullifies Marine act. Comm & Fin Chr 117:2721-2 D 22 '23

Economic conditions

Business conditions in Germany. V. G. Bartram. Can Chem & Met 8:287-8 D '24
Business innocent abroad. H: Schott. Nation's Business 12:32-4 D '24
Can Germany come back? S: Crowther. il System 45:179-82+ F '24
Central European bonds and stocks. Moody's Inv Serv 17:95 Mr 19 '25
Dawes plan—a beginning. A. G. Goldsmith. Am Bankers Assn J 17:317-18+ N '24; Same. Econ W n s 28:773-5 N 29 '24
Doing business in Germany today. F. Deutsch. System 46:732-5 D '24
Economic and financial progress of Germany. H: A. E. Chandler. Comm M 7:3-11 Jl '25; Same. Econ W n s 30:78-81 Jl 18 '25
Economic conditions in Germany. Nat City Bank p 178-80 N '25; Same. Econ W n s 30: 702-3 N 14 '25
Financial and economic cross-currents in Germany. Econ W n s 27:406 Mr 22 '24
Franco-German frontiers. E. H. Stinnes. Credit M 27:8+ My '25
Future earning power of German industry. C. E. Herring. Am Bankers Assn J 18: 48+ Jl '25

GERMANY—Economic conditions—*Continued*
German economic supplement. Economist 101:sup1-16 Jl 18 '25
German efficiency a thing of the past. Am Mach 59:860f D 6 '23
German finance and industry. E. E. Staub. Management & Adm 9:321-4 Ap '25
German industries at higher speed. S. H. Bunnell. Iron Age 115:1041-2 Ap 9 '25
German industry and reparation. Moody's Inv Serv 17:41-4 Ja 29 '25
German prices and German competition in international markets. J. Hellauer. Harvard Business R 3:35-53 O '24
Germany and Europe. H. Kessler. 150p Yale univ. press. New Haven '23
Germany and high living costs. O: H. Luken. Am Ind 25:41-2 Ja '25
Germany as a market for American products. Ptr Ink 129:177-8 D 11 '24
Germany at the crossroads; comedy and tragedy of the mark. B. Miles. Nation's Business 11:38-40 D '23
Germany of to-day. Electrician 94:64+ Ja 16 '25
Germany's economic and trade position. H. G. Moulton and others. Ann Am Acad 114:1-25 Jl '24
Germany's high costs hamper industry. S. H. Bunnell. Iron Age 113:1219-21 Ap 24 '24
Germany's nightmare and awakening. Am Mach 60:344h-i F 28 '24
Germany's problem of reconstruction. F: L. Hoffman. Econ W n s 27:40-2 Ja 12 '24
Germany's revival. E. J. Mehren. Chem & Met Eng 31:346-7 S 1 '24; Same. Eng N 93:418-19 S 11 '24; Same. Coal Age 26:395 S 18 '24; Same. Eng & Min J 118:404 S 13 '24; Same cond. Am Mach 61:366a Ag 28 '24; Same cond. Elec W 84:710-11 S 27 '24
Germany's turnaround in 1924. P. H. Middleton. il Am Ind 25:5-10 Ag '24
How Germany must work out problems. R: Moldenke. Iron Age 112:1307-9 N 15 '23
How is the Dawes plan working? R. C. Long. Am Bankers Assn J 18:9-11 Jl '25
Industrial crisis of Germany. E. Lengyel. Annalist 26:509 O 23 '25
Industrial Germany changing its form. Iron Age 113:941-2 Mr 27 '24
Is United States financing German competition? J. W. Hill. il Iron Tr R 76:339-40 Ja 29 '25
Light breaks thru in Germany. B. Miles. Nation's Business 12:64+ Ap '24
1924 als wirtschaftsjahr. H. Lewe. Elektrotech Zeit 46:105-8 Ja 22 '25
La politique économique allemande. H: Lichtenberger. Chimie & Ind 14:319-24 Ag '25
Present capitalization of German corporations as shown by the new gold balance-sheets. Econ W n s 30:407 S 19 '25
Present economic position in Germany. Economist 98:1042-3 My 24 '24
Present economic situation of the German student body. E. Boehler. Monthly Labor R 17:1000-6 N '23
Restoration of the balance-sheets of German business to a gold money basis. R: Eldridge. Econ W n s 28:630-1 N 1 '24
Sir Max Muspratt on Germany. Chem Age (Lond) 12:608-9 Je 20 '25
Trust position in Germany. Economist 98:867-8 Ap 26 '24
Truth about Germany's industrial revival. P. Dawson. Ind Management 69:1-6, 129-36, 232-41, 257-65, 336-44; 70:53-9 Ja, Mr-Jl '25
Turning German paper into gold; present European relation to American industry. A. C. Morrison. Am Ind 24:11-15 F '24
Die ueberlastung der wirtschaft. W. Hillmann. Stahl & Eisen 44:1575-8 D 4 '24
Value of Germany's national wealth at the present time. K: Helfferich. Econ W n s 27:546-7 Ap 19 '24
Die weltwirtschaftliche umstellung seit 1914 und die sich hieraus ergebenden aufgaben der zukünftigen deutschen handelspolitik unter besonderer berücksichtigung der elektrotechnischen industrie. D. von Raumer. Elektrotech Zeit 45:945-9 S 4 '24
What is there to German trade supremacy? S: Crowther. il map System 45:23-7+ Ja '24
What the adoption of the Dawes plan will do for business. A. G. Goldsmith. Ptr Ink 128:73-4+ Ag 21 '24

See also Banks and banking—Germany; Cooperation—Germany; Debts, Public—Germany; Finance—Germany; Housing—Germany; Immigration and emigration—Germany; Iron industry and trade—Germany; Labor and laboring classes—Germany; Labor laws and legislation—Germany; Money—Germany; Securities—Germany; Steel industry and trade—Germany; Strikes and lockouts—Germany; Taxation—Germany; Trade unions—Germany; Unemployment—Germany; Wages—Germany

Foreign relations

Les accords franco-allemands. H: Lichtenberger. Chimie & Ind 12:951-7 N '24

See also Ruhr Valley—French occupation

Indemnities

See German indemnities

Industries and resources

American capital and German industry. Econ W n s 28:406-7 S 20 '24
Conditions in the German aluminum industry. Econ W n s 28:10-11 Jl 5 '24
Development of German industry, 1913 to 1922. Monthly Labor R 18:134-9 Ja '24
Die industrie-obligationen in der reparationspolitik. E. Guggenheimer. Stahl & Eisen 44:1037-42 Ag 28 '24
Reports of German factory inspectors for 1922. Monthly Labor R 17:1263-74 D '23

See also Aircraft industry—Germany; Automobile industry and trade—Germany; Chemical industries—Germany; Coal supply—Germany; Coal trade—Germany; Cotton trade—Germany; Dye industry—Germany; Electric industries—Germany; Gas industry—Germany; Gold mines and mining—Germany; Iron industry and trade—Germany; Machine tool industry—Germany; Machinery industry—Germany; Mines and mineral resources—Germany; Motor truck industry and trade—Germany; Paper industry and trade—Germany; Petroleum—Germany; Petroleum industry and trade—Germany; Rubber industry and trade—Germany; Ruhr Valley—Industries and resources; Shipbuilding—Germany; Steel industry and trade—Germany; Steel works—Germany; Water power—Germany

National economic council

German and French national economic councils. R. Picard. Int Labour R 11:803-29 Je '25

Politics and government

Allied council of ambassadors in note to Germany on return of Crown Prince says German government is responsible for consequences. Comm & Fin Chr 117:2390-1 D 1 '23
Hindenburg to American business. M. Thorpe. Nation's Business 13:13-15 S '25

Revaluation law

German bond values under the revaluation law. M. Rothenberger. Annalist 26:375+ S 25 '25
Germany sets time for bond claims. Comm & Fin Chr 121:1299 S 12 '25
New German revaluation law as it effects mortgages, mortgage bank bonds and industrial obligations. Moody's Inv Serv 17: 357-60 O 29 '25
Official explanation of the German law for the revaluation of old mark bonds and debts. Econ W n s 30:449-50 S 26 '25

Statistics, Vital

Mortality in Germany, 1913-1921. E. Roesle. Am Statis Assn J 20:164-78 Je '25

Treaties

See Germany—Commercial treaties

GERMICIDES. See Disinfection and disinfectants

GEYSERS
Geysers offer power possibilities. il Elec W 86:963-4 N 7 '25
New Niagara of subterranean power; Alexander valley, California. U. V. Wilcox. il Sci Am 132:24-5 Ja '25
See also Hot springs

GHENT, Belgium
Gand, port de mer. Génie Civil 84:331 Ap 5 '24

GIANNINI, A. P.
Adventure in employee ownership; the plan of the Bank of Italy. F. S. Clark. por Burroughs Clearing House 9:17-18+ Mr '25

GIBBS, J. Willard
Brief biography and a summary of his contributions to chemistry. R. C. Cantelo. Can Chem & Met 8:215-17 S '24
Influence of J. Willard Gibbs on the science of physical chemistry. F. G. Donnan. J Fr Inst 199:457-83 Ap '25
Method of Willard Gibbs in chemical thermodynamics. W. L. Miller. il Chem R 1:293-344 Ja '25

GIBS
Methods of machine tool design. A. L. De-Leeuw. diags Am Mach 62:233-6 F 5 '25; Discussion. T. Berna. 62:502 Mr 26 '25

GIFFORD, Walter S.
New captain of industry. Comm & Fin 14:200 Ja 28 '25
Portrait. Forbes 15:607 F 15 '25

GIFT tax
Capital levy seen in gift tax. F. A. Schack. Am Bankers Assn J 17:507+ F '25; Same. Econ W n s 29:269-70 F 21 '25

GIFTS
Eastman's gifts now $40,000,000. I. K. Sherman. Am Ind 25:31-2 Ja '25
Generous America. Ind & Eng Chem 17:114 F '25
How Franklin fostered industrial education. Inland Ptr 74:555-6 Ja '25
Suppose you gave away $70,000,000. F: Beckmann. il Nation's Business 13:33-5 My '25
See also Advertisements—Gift appeal

GILBERT, S. PARKER
First overseer of the mark. R. A. Lewis, jr. por Am Bankers Assn J 17:313-15+ N '24

GILBRETH, Frank Bunker, 1868-1924
How he made good. L. M. Gilbreth. Prof Eng 9:5-6 O '24
Sketch. por Am Mach 60:984d Je 26 '24; Mech Eng 46:505 Ag '24

GILBRETH, Frank B., inc.
Management methods and principles of Frank B. Gilbreth, inc. K. H. Condit. Am Mach 58:33-5, 293-5, 443-7, 665-7; 59:25-7, 329-34; 60:539-41, 923-5 Ja 4, F 22, Mr 22, My 3, Jl 5, Ag 30 '23, Ap 10, Je 19 '24

GILDS. See Building gilds

GILL boxes. See Woolen and worsted machinery

GILLETTE safety razor company
Expired patents—liabilities or assets? C. B. Larrabee. Ptr Ink 126:122+ Mr 20 '24
How Gillette increased foreign sales from 200,000 to 2,000,000 razors. T: W. Pelham. Sales Management 7:1389-90+ Ag '24

GILSON efficiency meter. See Coal meters

GILSONITE
Marketing the natural hydrocarbons. S. D. Kirkpatrick. il Eng & Min J 119:329-30 F 21 '25
Unusual conditions warrant high rail rates. Eng N 95:55 Jl 9 '25

GINGER
Double strength tincture of ginger; its composition and analysis. B. A. Eden, C. E. Marsh, and H. C. Lythgoe. Ind & Eng Chem 16:816-18 Ag '24

GINGER ale
Advertising
But you can't sell ginger ale in winter. P. M. Boggs. Ptr Ink 132:25-6+ Jl 30 '25

GIRDER hooks. See Hooks, Girder

GIRDERS
Beams and columns, covering parts A, B, C, and G, chapter XI of the Joint committee. C: E. Nichols. Boston Soc C E J 12:66-71 F '25
Beams without lateral support. S. Timoshenko. Am Soc C E Pro 50:239-54 Mr '24
Bearing on stiffener angles. A. W. A. Eden. Eng N 95:26 Jl 2 '25
Bending-moment envelopes in continuous beams. G. P. Manning. Engineering 119:731 Je 12 '25; Same. Eng & Contr (Bldgs) 64: 1384-5 D 23 '25
Bond and anchorage in beams, covering part E, chapter XI of the Joint committee report. W. W. Clifford. Boston Soc C E J 12: 77-9 F '25
Built-up structural members. T. F. Laist. diag Bldg Age 47:156 Ja '25
Calcul des poutres à consoles et portiques raidis par des haubans. G. Prudon. diags Génie Civil 85:290-3 O 4 '24
Calculating deflections of beams by a simple method. P. G. Laurson. Eng N 93:424-5 S 11 '24; Discussion. 93:558, 760 O 2, N 6 '24
Cantilever balcony framing for special conditions. D: C. Coyle. diags Eng N 95:67 Jl 9 '25
Comparative strength of various sections of rolled steel beams. A. W. A. Eden. Eng N 95:603 O 8 '25
Concrete beams. Concrete 27:50 Ag '25
Connecting concrete beam to steel column. diag Concrete 27:25 Jl '25
Deflection chart for timber beams. K. S. Dodd. Eng N 92:622 Ap 10 '24
Determination of the stresses in a beam by means of the principle of least work; abstract. W: Hovgaard. Mech Eng 47:753 S '25
Diagonal tension and shear in beams, covering part D, chapter XI of the Joint committee report. H. Sutherland. Boston Soc C E J 12:71-6 F '25
Effect of slight taper on shear in a girder. L. N. G. Filon. Engineering 118:789 D 12 '24; Discussion. J. M. Udale. 119:133 Ja 30 '25
Étude de la continuité dans un réseau rectangulaire de poutres et de piliers. H: Bordier. diags Génie Civil 84:248-54 Mr 15 '24
Moments in restrained and continuous beams by the method of conjugate points. L. H. Nishkian and D. B. Steinman. diags Am Soc C E Pro 51:1591-1639 O '25; Discussion. 51:2065-71; 52:122-34, 329-33 D '25-F '26
Ninety-eight tons of steel in one piece. il Sci Am 130:101 F '24
Placing an 118 ton plate girder. il Eng & Contr (Bldgs) 61:486 F 27 '24
Poutres en béton armé, système Siegwart, pour planchers. il diag Génie Civil 86:69 Ja 17 '25
Printing-press floor stiffened by concrete bridging girder. E. S. Parker. il diag Eng N 93:681 O 23 '24
Reinforcing the web of rolled beams to carry excessive shear. A. Frank. diag Eng N 93: 599-600 O 9 '24
Remarkably heavy plate girders in skew railroad bridge. il diags Eng N 93:710-11 O 30 '24
Segmental girder construction as applied to the Scherzer rolling lift bridge. C. P. Hazelet. il diags W Soc E J 29:187-94 Ap '24
Shearing stress in passenger car side girders. W. J. Meyer. diags Ry Mech Eng 98: 604-8 O '24
Some features of plate girder design. R. Fleming. diags Can Eng 48:161-4 Ja 27 '25
Stresses in continuous beams determined graphically. I. Duberstein. diags Eng N 94: 886-8 My 28 '25
Theory of transverse oscillations in girders and its relation to live-load and impact allowances. C: E: Inglis. il Engineering 117: 378-80 Mr 21 '24

GIRDERS—*Continued*
Useful I-beam chart. W. F. Schaphorst. Can Eng 48:177 Ja 27 '25

See also Bridges; Bridges—Load; Building; Roofs; Steel construction; Strains and stresses; Trusses

Testing

Ferrocrete—a rapid-hardening cement; compression tests of beams made with it. Engineer 138:667-8 D 12 '24; Same. Can Eng 48:178 Ja 27 '25

Shear tests of reinforced concrete beams. Eng & Contr (Bldgs) 64:234 Jl 22 '25

Spot-welded girders and columns tested for strength. L. B. Tuckerman. diags Eng N 92:982-3 Je 5 '24

Tests of bond resistance in reinforced concrete beams. W. A. Slater. diags Eng N 94: 1050-3 Je 25 '25

Torsional strength of steel I-sections. C. R. Young and C. A. Hughes. diags Can Eng 46: 593-7 Je 10 '24; Same. Eng & Contr (Bldgs) 62:469-79 Ag 27 '24; Abstract. Eng N 92:461 S 18 '24; Discussion. 93:882-3, 1047; 94:290 N 27, D 25 '24, F 12 '25

GITLOW, Benjamin

Conviction of Benjamin Gitlow under New York anarchy law upheld by United States Supreme court. Comm & Fin Chr 120:3143 Je 20 '25

GLACIAL epoch

Age of the Spokane glaciation. J. H. Bretz. Am J Sci 5th ser 8:336-42 O '24

Ice ages and the drift of continents. A. P. Coleman. Am J Sci 5th ser 7:398-404 My '24

Pleistocene changes of level. R. A. Daly. Am J Sci 5th ser 10:281-313 O '25

Was there Pennsylvanian-Permian glaciation in the Arbuckle and Wichita mountains of Oklahoma? C. O. Dunbar. Am J Sci 5th ser 8:241-8 S '24

GLACIERS

Mt Shasta's mighty river of mud. il Sci Am 132:9 Ja '25

GLANDS, Ductless

Can old age be deferred? il Sci Am 133:226-7 O '25

Progress of medical science. M. Fishbein. il Sci Am 133:310-11 N '25

See also Pituitary body

GLARE

Glare and its relation to eye sight conservation. F. C. Caldwell. Illum Eng Soc 18: 543-8 Jl '23; Abstract. Am Inst E E J 43:568 Je '24

Glare and visibility. M. Luckiesh and L. L. Holladay. diags Illum Eng Soc 20:221-47; Discussion. 248-52 Mr '25

Lighting system should exclude glare. Bldg Age 47:150+ Ap '25

See also Glarimeter; Lighting

GLARIMETER

Glarimeter and the measurement of the finish of paper. R. E. Lofton. bibliog diag Tech Assn Pa ser 8:100-2 '25; Same. Paper Tr J 80:47-9 F 12 '25; Same. Paper 35:132+ F 12 '25

GLASGOW, Scotland

See also Electric plants (central stations)—Glasgow

Bridges

Scotch concrete arch bridge built as box girder. W. L. Scott. il diags Eng N 95: 536-9 O 1 '25

Lighting

What Glasgow corporation lighting department is doing. S. B. Langlands. Gas J (Lond) 167:932-3 S 24 '24

Rapid transit

Glasgow corporation tramways. Engineer 138: 82-3 Jl 18 '24

GLASS

Adsorption of water from the gas phase on plane surfaces of glass and platinum. I. R. McHaffie and S. Lenher. diag Chem Soc J 127:1559-72 Jl '25

Analysis of recent measurements of the viscosity of glasses. G. S. Fulcher. Am Cer Soc J 8:339-55, 789-94 Je, D '25

Antique glass. Am Arch 126:sup12 N 5 '24

Colloids in glass. A. Silverman. Am Cer Soc J 7:795-802 N '24

Compressibility of several artificial and natural glasses. P. W. Bridgman. Am J Sci 5th ser 10:359-67 O '25

Constitution of glass; a London symposium. Chem Age (Lond) 12:527 My 30 '25

Corrosion of glass surfaces. G: W. Morey. Ind & Eng Chem 17:389-92 Ap '25

La cristillisation des verres et l'emploi de pavés en verres basiques cristallisés. Génie Civil 86:487 My 16 '25

Density and index of refraction of glass versus its composition. A. N. Finn and H. G. Thomson. Am Cer Soc J 8:505-13 Ag '25

Electrical conductivity of sodium chloride in molten glass. W. J. Sutton and A. Silverman. il diags Am Cer Soc J 7:86-104 [bibliog. p. 102-4] F '24; Discussion. (Bul) 7: 390-2 O '24

Electrolysis of soda-lime glass. J. W. Rebbeck, M. J. Mulligan and J. B. Ferguson. diag Am Cer Soc J 8:329-37 [bibliog. p. 337-8] Je '25

Electrolysis of soda-lime glass; evolution of gas and its relation to sorption and conductivity. J. W. Rebbeck and J. B. Ferguson. diags Am Chem Soc J 46:1991-2002 S '24

Fundamentals of heat flow in molten glass and in walls for use against glass. G: V. McCauley. il Am Cer Soc J 8:493-504 Ag '25

Germanium; germanium glasses. L. M. Dennis and A. W. Laubengayer. Am Chem Soc J 47:1945-7 Jl '25

Glass and chemical trades. il Dun's Int R 44: 69-70+ N '24

Glass for building purposes. E: H. Hobbie. plan Sibley J 38:119-20 My '24

Glasses, as undercooled liquids. Engineering 119:706-7 Je 5 '25; Excerpt. Soc Auto Eng J 17:188 Ag '25

L'industrie du verre et des glaces. L. Delloye. Génie Civil 84:89-91 Ja 26 '24

Microscopic identification of stones in glass. H. Insley. Am Cer Soc J 7:14-18 Ja '24

Problem of glass decay; abstracts. E. Mellor and others. Chem Age (Lond) 10:618-19 Je 14 '24

Proposed method for studying the attack of molten slags and glasses upon refractory materials. C: I. Rose. Am Cer Soc J 6:1242-7 D '23

Society of glass technology; abstracts of papers at 1924 meeting. Soc Chem Ind J (Chem & Ind) 43:621 Je 13 '24

Society of glass technology; abstracts of papers at 1925 meeting. Soc Chem Ind J (Chem & Ind) 44:637-8 Je 19 '25

Sorption of ammonia and carbon dioxide by glass. D. H. Bangham and F. P. Burt. J Phys Chem 29:113-29 F '25

Sorption of nitrous oxide and sulphur dioxide by glass. D. H. Bangham and F. P. Burt. J Phys Chem 29:540-50 My '25

Stress-optical coefficients for direct tension and pressure measured in the case of glass. S. R. Savur. bibliog diags Philos Mag 6th ser 50:453-63 Ag '25

Textbook of glass technology. F. W. Hodkin and A. Cousen. 551p [bibliog. p. xi-xiv] Van Nostrand '25

Tyndall blue in solids. W. D. Bancroft. J Phys Chem 28:12-25 Ja '24

Viscosities and surface tensions of the soda-lime-silica glasses at high temperatures. E: W. Washburn and others. diags Ill U Eng Exp Sta Bul 140:7-71 Ap 14 '24; Abstract. Am Cer Soc J 7 (Cer A 3):336-44 D '24

GLASS—*Continued*
Weathering of bulb glass. Sangoro Takahashi. Am Cer Soc J 8 (Cer A 4):67-8 Mr '25

See also Cut glass; Durosil; Glass blowing; Glass manufacture; Glassware; Plate glass; Pyrex; Silica, Fused; Stained glass; Windows

Bibliography

List of books on glass. Am Cer Soc J (Bul) 8:239-47 My '25

Joining to metal

Metal-to-glass joint. H. N. Ridyard. Am Chem Soc J 46:287-90 F '24
Sealing base metals to glass. Metal Ind 22: 279 Jl '24

Specifications

Outline of tentative specifications for glass and glazing. Am Arch 126:514-15 N 19 '24
Standard specifications of the New York building congress. Am Arch 128:sup12+ Ag 12 '25

Tables and ready-reckoners

Decimal plate and sheet glass calculator. S: S. Lindsay, comp. 95p Samuel S. Lindsay, Pittsburgh, Pa. '25

Testing

Action of potassium carbonate on lead glass. E. A. Coad-Pryor. Soc Chem Ind J 43:27-8 F 8 '24
Correlation between crack development in glass while conducting electricity and the chemical composition of the glass. E. E. Schumacher. Am Chem Soc J 46:1772-7 Ag '24
Detecting strains in glassware. Chem Age (Lond) 11:472 N 8 '24
Machine for transverse tests of clay and glass laboratory specimens. A. C. Harrison. il diags Am Cer Soc J 8:774-83 N '25
New method for measuring the tensile strength of glass. J. T. Littleton, jr. il diags Phys R 22:510-16 N '23
La recherche, en lumière polarisée chromatique, des tensions internes dans les appareils en verre soufflé. Génie Civil 86:93-4 Ja 24 '25
Test for determining the welding properties of glasses. R. J. Montgomery. Am Cer Soc J (Bul) 8:210-11 My '25

See also Water gages—Testing

GLASS, Colored
Coloring glasses with copper. Kitsuzo Fuwa. Am Cer Soc J 8 (Cer A 4):65-6 Mr '25
Development of transparent colored glass in America for goggle purposes. E. L. Hettinger. Am Cer Soc J 7:318-21 My '24

GLASS, Leaded
Novel, decorative method for leaded glass. L. V. Solon. il Arch Rec 57:283-5 Mr '25

GLASS, Optical
Early optical glass making in the United States. H: H. Blau. Am Cer Soc J 7:322-5 My '24
Manufacture of optical glass. C. J. Peddle. Am Cer Soc J 7 (Cer A 3):6-9 Ja '24
Studies in the projection of light. F. Benford. diags Gen Elec R 27:625-33 S '24

See also Optical instruments

GLASS, Stained. See Stained glass

GLASS, Wire. See Wire glass

GLASS blowing
Glass blowing as a laboratory subject. R. A. Baker. Chem Age 32:112 Mr '24
Point in glass-blowing practice. diags Chem Age (Lond) 10:168 F 16 '24

GLASS enclosed buildings
Group heating of buildings; giant conservatory enclosing half-mile district proposed for economical community heating. S. R. Lewis. diag plan Am Soc Heat & V E J 29:615-22 N '23; Same. Sanitary & Heat.Eng 100:344-7 N 30 '23; Excerpt. Am Arch 125:14 Ja 2 '24

GLASS factories
Corning glass works. il Ind & Eng Chem 17: 650-1 Je '25
Efficiency in the glass trades. il Nation's Health 6:238 Ap '24
Glacerie de Chantereine. R. Jouassain. Soc Ing Civils Bul 77:601-8, pl 79 O '24
Question of a weekly stoppage in glass works using tank furnaces. Int Labour R 9:538-57 Ap '24
River Rouge automobile plate glass factory. J. W. Robinson. il plans Eng N 93:376-9 S 4 '24

See also Glass manufacture; Glass pots; Glass tanks; Glass workers

Accounting

Simplifying cost and price figuring; table and slide rule methods from glass industry. R. Rosenthal. Management & Adm 9:535-6 Je '25

Employees

See Glass workers

Equipment

Materialbewegung in glashütten. C. Michenfelder. il diags Zeit Ver Deutsch Ing 68:515-19 My 24 '24
Mechanical handling at River Rouge; successful innovations in plate glass manufacture. M. W. Potts. il Ind Management 68:104-6 Ag '24

See also Glass furnaces; Glass working machinery

Safety devices and measures

Safe thinking and safe clothing at the glass works. J: M. Sandel. il Nat Safety N 12:19-22 Jl '25

GLASS furnaces
Failure of thermocouple protection tubes in glass melting furnaces. H. Insley. il Am Cer Soc J 8:605-10 S '25

See also Glass pots; Glass tanks

GLASS manufacture
Annealing glass with the electric lehr. K. M. Henry. il J Elec 54:356-8 My 15 '25
Batches for sheet glass. Chem & Met Eng 30:679-80 Ap 28 '24
Die deutsche glasindustrie und das ausland; rundschau. Zeit Ver Deutsch Ing 68:525-8 My 24 '24
Drawing continuous sheet glass. diags Chem & Met Eng 29:978-9 N 26 '23
Exporting American methods; mechanical glass-making plant in Belgium. il World's Markets 15:5-6 Ap '24; Same. Dun's Int R 43:47-9 My '24
Fine glass manufacture. J. H. Gardiner. Chem Age (Lond) 10:293 Mr 22 '24
Flat glass. A. E. Fowle. 71p Libbey-Owens sheet glass co., Toledo, Ohio '24
Gas for glass. R. A. Hastings. il Gas Age 56: 225+ Ag 15 '25
Glass-making in England. H. J. Powell. 183p Macmillan '23
Glastechnik in vergangenheit und zukunft. H. Schulz. Zeit Ver Deutsch Ing 68:505-8 My 24 '24
Limestone for sheet glass making. E. P. Arthur. Am Cer Soc J 8:125-30 Mr '25
Misbranding raw materials and ceramic chemicals for glass manufacture. Am Cer Soc J (Bul) 7:388-90 O '24
Modern methods of sheet glass production. W. E. S. Turner. Chem Age (Lond) 12:275 Mr 21 '25
Observations on the European glass industry. H: W. Hess. Am Cer Soc J (Bul) 6:362-4 D '23
Some combustion problems in glass making. C. D. Smith. diags Am Cer Soc J 7:603-13 Ag '24
Study of recent attempts to produce high resistance glasses. W. E. S. Turner. Soc Chem Ind J (Chem & Ind) 43:1262-3 D 19 '24
Use of boric oxide in glass-making. W. E. S. Turner. Am Cer Soc J 7:313-17 My '24
Use of pyrometers in glass works. Chem Age (Lond) 10:219 Mr 1 '24

GLASS manufacture—*Continued*
Use of zirconia in glass making. V. Dimbleby and others. Chem Age (Lond) 12:333 Ap 4 '25
Variations in glass caused by heat treatment. A. Q. Tool and C. G. Eichlin. Am Cer Soc J 8:1-17 Ja '25
Vom wärmetechnischen messwesen in glashütten. H. Maurach. diags Zeit Ver Deutsch Ing 68:520-4 My 24 '24
See also Glass, Optical; Glass blowing; Glass factories; Glass pots; Glass tanks; Glass workers; Plate glass; Silica, Fused; Wire glass

GLASS pots
Comparative service tests of Gross Almerode and domestic clay pots. W. S. Williams. Am Cer Soc J (Bul) 7:413-15; Discussion. 415-17 N '24
Glass and refractories symposium. diags Am Cer Soc J (Bul) 8:601-10 N '25
Present and future walls for use against molten glass. R. J. Montgomery. Am Cer Soc J 8:205-12; Discussion. 213-15 Ap '25
Recent developments in furnaces for glass works. J. S. Atkinson. diags Am Cer Soc J 8 (Cer A 4):186-9 Jl '25
Use of muffle tunnel kilns for the arching of plate glass pots. P. d'H. Dressler and L. T. Strommer. il Am Cer Soc J 8:216-24; Discussion. 224-6 Ap '25

GLASS rings
Glass rings—a new filling material for towers. F. C. Zeisberg. Am Inst Chem Eng Trans v 14:321-5; Discussion. 325-7 '21-'22

GLASS tanks
Action of arsenic compounds on tank block. D. J. McSwiney. Am Cer Soc J 8:307-9 My '25
Behavior of refractories in glass melting furnaces. H. Insley. il Am Cer Soc J 7:583-93 Ag '24
Checker brick for resisting alkaline slags. M. C. Booze and F. C. Flint. il Am Cer Soc J 7:594-8 Ag '24
Devitrification in a lime-flint glass tank. A. R. Payne. Am Cer Soc J 7:271-3 Ap '24
How improve the heat economy of glass tanks? S. R. Scholes. Am Cer Soc J (Bul) 8:599-600 N '25
Insulation of glass tanks. W. K. Brownlee. Am Cer Soc J 7:457-9; Discussion. 459-64 Je '24
Longer life of our tanks. C. A. Modes. Am Cer Soc J (Bul) 7:222-4 Je '24
Patent torpedo glass tank furnace. diag Am Cer Soc J 8 (Cer A 4):187 Jl '25
Some features of tank block comparisons. F. S. Thompson and H. I. Vormelker. diag Am Cer Soc J 8:611-17 O '25
Some fundamental principles governing the corrosion of a fire clay refractory by a glass. R. B. Sosman. diags Am Cer Soc J 8:191-203; Discussion. 203-4 Ap '25
Some recent developments in furnaces and gas producers for glass works; abstracts. J. S. Atkinson; T. Teisen. Soc Chem Ind J (Chem & Ind) 44:169-70 F 13 '25; Same. Chem Age (Lond) 12:134 F 7 '25; Same. Engineer 139:155 F 6 '25
What is the effect of selenium decolorizer on the tank blocks; discussion. H. L. Dixon and others. Am Cer Soc J (Bul) 7:332-45 S '24

GLASS trade
Collective agreements as to production as restraint of trade. Monthly Labor R 18:410-14 F '24

Advertising
Advertising a staple to soften the retailer's job; Hires-Turner glass company. Ptr Ink 125:57-8+ N 22 '23
Advertising gives century old company key to wider markets; development of Safedge glassware. Ptr Ink 127:8+ Ap 3 '24
Putting the package idea into the glassware field. Ptr Ink 126:84+ Mr 13 '24

Great Britain
Glass trade progress. Economist 99:725-7 N 8 '24

United States
Building glass industry. Comm M 6:21-7 My '24

GLASS workers
Hours of work in the glass trade. Engineering 117:150-1 F 1 '24
Output under different shift systems in the English glass industry. Monthly Labor R 18:575-6 Mr '24
Question of a weekly stoppage in glass works using tank furnaces. Int Labour R 9:538-57 Ap '24
Wages of Belgian glass workers. Monthly Labor R 19:388 Ag '24

GLASS working machinery
Glass-working machines. A. Kadow. diags Am Cer Soc J 8 (Cer A 4):103 Ap '25

GLASS works. See Glass factories

GLASSWARE
China and glassware. F. J. Ringo. 166p (Merchandise manuals for retail salespeople.) Shaw '25
Commercial decoration of glassware. T: Lenchner. il Am Cer Soc J (Bul) 8:527-31 O '25
Hard resistance glasses and the progress of laboratory glassware. Soc Chem Ind J (Chem & Ind) 43:873-4 Ag 29 '24
Kunstgläser der gegenwart. G. E. Pazaurek. 264p [bibliog. p. 22-5] Klinkhardt & Biermann, Leipzig '25
Rare English glasses of the XVII and XVIII centuries. J. Bles. 269p G. Bles, London '24
Skiagraphic study of fabricated glass articles. C. D. Spencer and A. E. Badger. diags Am Cer Soc J 6:1228-9 D '23
Street lighting glassware. F. Benford. il diags Gen Elec R 27:304-12 My '24
See also Bottles; Optical instruments; Pyrex

Specifications
Bureau of engineering specifications, lenses and globes. Am Cer Soc J (Bul) 7:82-90 Mr '24

Standards
Joint committee for the standardisation of scientific glassware. Soc Chem Ind J (Chem & Ind) 43:913-15; Discussion. G. W. Marlow. 916-17 S 12 '24
Standardisation of scientfic glassware. Chem Age (Lond) 11:266 S 13 '24
Volumetric glassware regulations. A. V. Hussey. Chem Age (Lond) 11:238 S 6 '24

GLAUBER'S salt. See Sodium sulfate

GLAUCONITE
Potash from greensand (glauconite). J. W. Turrentine, C. W. Whittaker and E. J. Fox. Ind & Eng Chem 17:1177-81 N '25
Striving for 100 per cent utilization of greensand. G: Garner. Manuf Rec 88:81 S 10 '25

GLAZES
Apparatus for measuring the abrasive hardness of glazes. W. J. Scott. il diag Am Cer Soc J 7:342-6 My '24
Aventurine glazes. V. K. Haldeman. Am Cer Soc J 7:824-33 N '24
Aventurine glazes. C. W. Parmelee and J: S. Lathrop. Am Cer Soc J 7:567-74 Jl '24
Better colors for clay products; glaze column with spray guns. P. E. Cox. Brick & Clay Rec 66:824-5 My 26 '25
Clay sewer pipe manufacture. H. G. Schurecht. Am Cer Soc J 7:411-22, 539-47 Je-Jl '24
Coloured glaze for porcelain. Chem Age (Lond) 11:sup15 O 18 '24
Colors in a zinc silicate glaze. H. M. Kraner. il Am Cer Soc J 7:868-77 D '24
Effect of uranium in various types of glazes. O. E. Mathiasen. il Am Cer Soc J 7:499-503 Jl '24

GLAZES—*Continued*
Further experiments in the problem of the turquoise alkaline glaze. M. M. French. il Am Cer Soc J 8:143-4 Mr '25
Glazes colored by molybdenum. W. E. Barrett. Am Cer Soc J 8:306 My '25
Gloss glazes and Indian designs on North Dakota pottery. M. Cable. il Am Cer Soc J 7: 489-93 Je '24
Microscopic study of stresses in glazes. A. V. Henry. Am Cer Soc J 8:117-21 F '25
Some forms of sulphuring on earthenware glazes. T: A. Shegog. Am Cer Soc J 8:148-53 Mr '25; Discussion. (Bul) 8:615-17 N '25
United States government master specification for flat glass for glazing purposes. U S Bur Stand Circ 164:1-12 '24
Unusual case of warping of flat ware in the glost kiln. T: A. Shegog. Am Cer Soc J (Bul) 8:579-81; Discussion. 581-2 N '25
Use of gelatine in glaze application. A. C. Gerber. Am Cer Soc J 7:494-7 Je '24
See also Enamel and enameling; Slips (ceramics)

GLESSNER house, Chicago
John J. Glessner house. il Am Arch 127:11-12 Ja 14 '25

GLIADIN
Amino acid distribution in proteins of wheat flours. R. J. Cross and R. E. Swain. Ind & Eng Chem 16:49-52 Ja '24
Iso-electric points of gliadin and glutenin. E. L. Tague. Am Chem Soc J 47:418-22 F '25

GLIDERS
California students build monoplane glider. A. C. Merrill. il Aviation 16:39 Ja 14 '24
Control in the light plane. E: P. Warner. Aviation 17:916 Ag 25 '24
Flexible wings score in gliding meet. il Aviation 19:217 Ag 24 '25
Gliders and light planes. A. Ogilvie. Roy Aeronautical Soc J 27:524-8; Discussion. 528-34 N '23
Gliders; their history and uses. W. H. Sayers. Roy Aeronautical Soc J 28:315-22 My '24
Gliding and soaring flight; a survey of man's endeavour to fly by natural methods. J. B. Weiss. 164p S. Low, Marston & co., London '23
Light planes and gliders, edited by E. T. Allen. il Aviation 16:340-1; 18:163, 385, 696-7, 726-7 Mr 31 '24, F 9, Ap 6, Je 22-29 '25
Magnan monoplane glider; a French machine designed for gust-soaring. diags Aviation 16: 257-8 Mr 10 '24
New Caltech glider. A. A. Merrill. il Aviation 17:811 Jl 28 '24
1923 Rhoen gliding and soaring competition. il Aviation 15:655 N 26 '23
Wissenschaftliche grundlagen und aussichten des motorlosen fluges. A. Pröll. il diags Zeit Ver Deutsch Ing 68:557-61 My 31 '24

GLOS (term). See Silk, Artificial—Terminology

GLOVE fabrics
Glove fabric underwear and hosiery. G. R. Merrill. il Textile World 67:1963+ Mr 21 '25

GLOVER, Warren Irving, 1879-
New air mail chief. por Aviation 18:669 Je 15 '25

GLOVES
Derivation and peculiarities of glove leathers. il Am Exporter 94:43+ Mr '24

Manufacture
Finishing sueded cotton fabrics. R. Presgrave. Textile World 67:2109+, 2311+ Mr 28-Ap 4 '25
Manufacture of warp knit gloves. G. R. Merrill. il Textile World 66:353+, 995+, 1549+, 2155+ Jl 19, Ag 23, S 20, O 18 '24
Warp knitting and glove manufacture. G. R. Merrill, comp. 125p Bragdon, Lord & Nagle co., New York '25

GLOVES, Rubber
Manufacture
Dipped rubber glove manufacture. J: Hadfield. il plan India Rubber W 71:209-11 Ja '25
Manufacture of rubber gloves. P. R. Wesley. il Rubber Age 15:422, 425 S 10 '24

Specifications
Standard specifications for rubber gloves for electrical workers on apparatus or circuits not exceeding 30000 volts to ground. il Am Soc T M Standards 1923:117-23
United States government master specification for rubber gloves for electrical workers (for use in connection with apparatus or circuits not exceeding 3,000 volts to ground). il U S Bur Stand Circ 271:1-7 '25

Testing
Dayton tests rubber gloves every week. K: H. Bausman. il Elec W 84:1059 N 15 '24
Detroit practice in testing rubber gloves. E. J. Manuel. il Elec W 85:103+ Ja 10 '25
Glove-testing equipment. E. E. Nelson. il Elec W 83:98 Ja 12 '24; Discussion. 83:190, 831 Ja 26, Ap 26 '24
Rubber gloves tested for 10,000 volts. il diag Elec W 82:1175-6 D 8 '23

GLOW discharge. See Electric discharges

GLUCONIC acid
Constitutional studies in the monocarboxylic acids derived from sugars; the methylation of tetramethyl gluconic acid. J: Pryde. Chem Soc J 125:520-2 Mr '24

GLUCOSAN
Yield of β-glucosane obtained from low-pressure distillation of cellulose. H. J: P. Venn. diag Textile Inst J 15:T414-18 Ag '24

GLUCOSE
Action of guanidine upon glucose in the presence and absence of oxygen. E. J. Witzemann. Am Chem Soc J 46:790-4 Mr '24
Action of highly concentrated hydrochloric acid on cellulose and on some derivatives of glucose and of xylose. E. L. Hirst and D. R. Morrison. Chem Soc J 123:3226-35 D '23
Glucose and alcohol from wood waste. Chem & Met Eng 32:236 F 9 '25
Glycogen; partial methylation, and the isolation of methylated glucoses. A. K. Macbeth and J: Mackay. Chem Soc J 125:1513-21 Jl '24
Interaction of glucose and methylene blue in an alkaline medium. E. Knecht and E. Hibbert. Soc Dyers & Col J 41:94-5; Discussion. 95 Mr '25
Quantitative study of the interaction of glucose and phenylhydrazine. E. Knecht and F. P. Thompson. Chem Soc J 125:222-6 Ja '24
Sodium compounds of glucose and the hydrolysis of the acylated compound. G. Zemplén and A. Kunz. Soc Dyers & Col J 39:379-80 D '23
See also Dextrose

Analysis
Effect of sodium carbonate concentration in the Benedict sugar method. A. J. Quick. Ind & Eng Chem 17:729-30 Jl '25

GLUCOSIDES
Glucosides of the navel orange. Am Chem Soc J 47:1191 Ap '25
Hydrolysis of the *d*-glucosides of *d*- and *l*-borneol with emulsin. S. Mitchell. Chem Soc J 127:208-9 Ja '25
Studies of the glucosides; the synthesis of thioindican. J. Craik and A. K. Macbeth. Chem Soc J 127:1637-40 Jl '25

GLUE
Casein and its industrial applications. bibliog Soc Chem Ind J (Chem & Ind) 44:990-1 O 9 '25; Same. Can Chem & Met 9:222-3 O '25
Casein glues for automobile-body assembly. W. A. Henderson. Soc Auto Eng J 14:186-7 F '24; Abstract. Automotive Ind 50:223-4 Ja 31 '24; Discussion. Soc Auto Eng J 15: 301-2 O '24
Cold waterproof glue. A. N. Miller. Bldg Age 46:92 Jl '24

GLUE—*Continued*
Effect of acetic acid on animal glue. G. W. Sullivan. Tech Assn Pa ser 8:57-8 '25; Same. Paper Tr J 80:215+ F 5 '25
Examination of liquid glue. D. T. Tressler. diag Ind & Eng Chem 16:943-5 S '24
Glue and gelatin production (in pounds), 1922 and 1923. Survey of Cur Business 33:17 My '24
Glue for polishing. B. H. Divine. Brass W 21:321-2, 355-6 S-O '25
Glue production during the third quarter (July-September) of 1924. Oil Paint & Drug Rep 107:32a F 2 '25
Glue used in patternmaking. W. C. Ewalt. Foundry 52:647-50 Ag 15 '24
Gluing joints. Mach 31:963 Ag '25
Influence of glue on the reinforcing effect of light magnesium carbonate in rubber. H. W. Greider. Ind & Eng Chem 16:151-5 F '24; Abstract. India Rubber W 70:446-8 Ap '24
New waterproof glue. Sci Am 131:333 N '24
Report of properties of wood glue; Forest products laboratory. Automotive Ind 52: 863-4 My 14 '25; Same, without table. Mach 32:78 S '25
Substitute for animal glue from potatoes. Chem Age 32:281 Je '24
Use of glue for coated paper. V. H. Gottschalk. Paper Tr J 79:46-9 N 13 '24
Valuation of glues and gelatines. S. N. Brown. Chem Age (Lond) 9:480-2 N 3 '23
See also Adhesives

Advertising

When sales seem to have stopped on dead center; sales of Lepage's glue. H. Ashbrook. Sales Management 7:1744+ N '24

Testing

Comparison of various tests upon glue, particularly its tensile strength. A: H. Gill. Ind & Eng Chem 17:297-8 Mr '25
Standard methods for determining viscosity and jelly strength of glue. diags Ind & Eng Chem 16:310-15 Mr '24
Topical discussion on the testing of glue. J. Alexander. Am Soc T M Pro 23 pt 2:570-3; Discussion. 574-91 '23

GLUSIDE. See Saccharin

GLUTACONIC acid
Addition of cyano-acetic esters to esters of glutaconic and β-methylglutaconic acids. E. P. Kohler and G. H. Reid. Am Chem Soc J 47:2803-11 N '25
Chemistry of the glutaconic acids; the tendency towards reversion to type. C. K. Ingold, J. H. Oliver and J. F. Thorpe. Chem Soc J 125:2128-36 O '24
Chemistry of the glutaconic acids; three-carbon tautomerism in the *cyclo*propane series. F. R. Goss, C. K. Ingold and J. F. Thorpe. Chem Soc J 123:3342-59; 127:460-9 D '24, F '25
Chemistry of the glutaconic acids; three-carbon tautomerism in the *cyclo*propane series—refractometric evidence. F. R. Goss, C. K. Ingold and J. F. Thorpe. Chem Soc J 125:1927-30 S '24

GLUTARDIALDOXIME
Fission of the pyridine nucleus during reduction; the preparation of glutardialdoxime. B. D. Shaw. Chem Soc J 127:215-16 Ja '25

GLUTARIC acid
Ring-chain tautomerism; derivatives of ββ-dimethyl-α-ethylglutaric acid. G: A. R. Kon. L. F: Smith and J. F. Thorpe. Chem Soc J 127:567-73 Mr '25
Ring-chain tautomerism; the αββ-trisubstituted glutaric acid type. K. C. Pandya and J. F. Thorpe. Chem Soc J 123:2852-65 N '23
See also Methylglutaric acids

GLUTATHIONE
New type of reduction-oxidation system; cysteine and glutathione. M. Dixon and J. H. Quastel. Chem Soc J 123:2943-53 N '23

GLUTEN
Effect of ammonium chloride upon the growth of yeast and the hydration of gluten in beer wort. E. I. Fulmer, F. F. Sherwood and V. E. Nelson. Ind & Eng Chem 16:921 S '24
Physico-chemical properties of strong and weak flours; the physical state of the gluten as influencing the loaf volume. P. F. Sharp, R. A. Gortner and A. H. Johnson. J Phys Chem 27:942-7 D '23

GLUTENIN
Amino acid distribution in proteins of wheat flours. R. J. Cross and R. E. Swain. Ind & Eng Chem 16:49-52 Ja '24
Iso-electric points of gliadin and glutenin. E. L. Tague. Am Chem Soc J 47:418-22 F '25

GLYCERIN
Anti-freeze days are here; glycerin is the ideal substance. Pet Age 16:28 O 15 '25
Carbonate of ethylene glycol and related compounds. C: F: Allpress and W: Maw. Chem Soc J 125:2259-64 N '24
Composition of the liquid and vapour phases of mixtures of glycerol and water. M. P. I. V. Iyer and F. L. Usher. diag Chem Soc J 127:841-4 Ap '25
Dehydration of alcohol by means of glycerin. E. Knecht and E. F. Muller. Soc Chem Ind J 43:177-8 Je 6 '24
Étude sur la déshydratation des vapeurs alcooliques par la glycérine et les solutions glycérineuses. Mariller. il diag Chimie & Ind 10:643-55 O '23
Freezing points of glycerol and its aqueous solutions. L. B. Lane. Ind & Eng Chem 17: 924 S '25
Glycerine higher on advance in raw materials, 1924. Chem & Met Eng 32:142 Ja 19 '25
Manufacture and uses of glycerine. Soc Chem Ind J (Chem & Ind) 43:586-9 Je 6 '24
Modified dichromate method for the estimation of glycerol; the hydration of curd fibres of sodium palmitate. H. B. Bennett. Chem Soc J 125:1971-5 O '24
Les sources diverses de glycérine; abstract. G. Batta. Chimie & Ind 12:1077 D '24
Studies in mutual solubility; the mutual solubility of glycerol and amino- and hydroxy-compounds. R. R. Parvatiker and B. C: McEwen. diags Chem Soc J 125: 1484-92 Jl '24
Synthetic glycerin. Chem Age 32:138-9 Mr '24
Use of glycerin as an anti-freeze solute. Automotive Ind 53:736 O 29 '25
Use of glycerine in hydraulic machinery. F. Mercier. Mech Eng 46:353 Je '24
Vapor pressures of glycerol-water and glycerol-water-sodium chloride systems. A. R. Carr, R. E. Townsend and W. L. Badger. Ind & Eng Chem 17:643-6 Je '25

GLYCEROL. See Glycerin

GLYCINE
Interaction of ββ′-dichlorodiethyl sulphide, sulphoxide, and sulphone with glycine ester and with potassium phthalimide. A. E. Cashmore and H. McCombie. Chem Soc J 123:2884-90 N '23

GLYCOGEN
Glycogen; partial methylation, and the isolation of methylated glucoses. A. K. Macbeth and J: Mackay. Chem Soc J 125:1513-21 Jl '24

GLYCOL. See Ethylene glycol

GLYCOLALDEHYDE
Decomposition of dihydroxymaleic acid. A. Locke. Am Chem Soc J 46:1246-52 My '24

GLYCOLIC acid
Conversion of paraformaldehyde into glycollic acid. D. L. Hammick and A. R. Boeree. Chem Soc J 123:2881-2 N '23

GLYCOLS
Application of the Grignard reaction to some acetylenic compounds; preparation of diacetylenic glycols. F. J. Wilson and W: M. Hyslop. Chem Soc J 123:2612-18 O '23
Glycol esters of certain aromatic acids. L. H. Cretcher and W. H. Pittenger. Am Chem Soc J 47:2560-3 O '25

GLYCOLS—*Continued*
Synthesis of glycols from atrolactinic acid. R. Roger. Chem Soc J 127:518-23 Mr '25

See also Dithioethylene glycol; Ethylene glycol

GLYCOSIDES
Relations between rotatory power and structure in the sugar group; some terpene alcohol glycosides of glucose, glucuronic acid, maltose and lactose. C. S. Hudson. Am Chem Soc J 47:537-43 F '25

GLYOXAL
Condensation products of ethyl aceto-acetate; a new compound of glyoxal and ethyl aceto-acetate, formylmethylene-bis-aceto-acetic ester. E: S. West. Am Chem Soc J 47: 2780-9 N '25

GLYOXALINE. See Imidazole; Phenylimidazole

GOBLE, Frank N.
Story of Frank N. Goble, master builder. por il plans Bldg Age 46:75-81 Ja '24

GOGGLES
Behind the safety goggle lens. G: E. Wallis. il Nat Safety N 10:21-3 Jl '24
Development of transparent colored glass in America for goggle purposes. E. L. Hettinger. Am Cer Soc J 7:318-21 My '24
How goggles should be worn. F: Willson. il Nat Safety N 9:31-2 My '24
Notes on welders' safety glasses and accessories. W. S. Andrews. Am Mach 61:657-8 O 23 '24
Will chippers wear goggles? W. H. Steele. Blast F & Steel Pl 13:204+ My '25
Wire screen goggles. Nat Safety N 12:38 Ag; 33 S '25

GOITER
Goiter survey by Michigan department of health; abstracts. R. M. Olin. Munic & Co Eng 67:11-12 Jl '24; Eng & Contr (W W) 62:564 S 10 '24
Iodine as preventive of goitre. Pub Works 56:27 Ja '25
Iodin deficiency in the dietary supplied by use of kelp. J. W. Turrentine. Nation's Health 6:449-51+ Jl '24
Iodine treatment of water to prevent goiter. J. W. Ellms. Eng & Contr (W W) 61:382-3 F 13 '24
Sodium iodide treatment of municipal water supply. B. C. Little. Eng & Contr (W W) 61:1279-81 Je 11 '24; Same. Can Eng 47:155-6 Jl 15 '24; Discussion. S. G. Highland. 47: 220 Ag 5 '24
Use of iodides in water supplies to prevent simple goiter. A. F. Mellen. bibliog Eng N 95:352-4 Ag 27 '25

GOLD, Louis
Building homes by the thousand; Louis Gold. E. Raymond. il plans Bldg Age 46:61-3 S '24

GOLD
Activated char for gold adsorption. R. H. McKee and P. M. Horton. Chem & Met Eng 32:164-7 Ja 26 '25
Distribution of world gold production by countries, 1913 to 1923. Econ W n s 28:88 Jl 19 '24
English gold and silver markets. Published in weekly numbers of Commercial and financial chronicle
First use of metals. T. A. Rickard. Eng & Min J 117:528-30 Mr 29 '24
Gold and silver in 1923. J. P. Dunlop. U S Geol S Min Res of U S 1923, pt 1:549-85, pl 1 '25
Gold and silver problems outlined. Min Cong J 10:129-30 Mr '24
Gold in jewelry work. H. W. Ostby. Brass W 20:58 F '24
Gold production; a survey and forecast. J. Kitchin. R Econ Statis 6:73-6 Ap '24
Gold; world output—economics. H. N. Lawrie. Eng & Min J 117:136 Ja 19 '24
Hall effect and specific resistance of cathodically deposited films of gold. S. S. Mackeown. Phys R 23:85-93 Ja '24
History of potable gold. Soc Chem Ind J (Chem & Ind) 43:1207 D 5 '24
How was placer gold formed? E. L. Allison. Eng & Min J 117:771-2 My 10 '24
Influence of hydrogen-ion concentration on the protective action of gelatin on Zsigmondy's standard gold sol. H. V. Tartar and J. R. Lorah. J Phys Chem 29:792-8 Jl '25
Marketing of gold. F. E. Wormser. il Eng & Min J 117:926-9 Je 7 '24
An open gold market. Eng & Min J 118:1-2, 141-2, 501 Jl 2, 26, S 27 '24
Pole lines occurring in the interrupted arc spectra of silver, gold, and copper. H. Lowery. Philos Mag 6th ser 48:1122-31, pl 27 D '24
Preliminary official estimates of the production of gold and silver in the United States in 1924. Econ W n s 29:88 Ja 17 '25; Comm & Fin Chr 120:139-40 Ja 10 '25
Production of gold in the British Empire in 1923. Econ W n s 28:446-7 S 27 '24
Protective action of soaps on Zsigmondy's gold sols. B. Papaconstantinou. J Phys Chem 29:319-22 Mr '25
Record gold production in Canada in 1924. Can Eng 49:168 Jl 28 '25
Results of work of Senate commission of gold and silver inquiry. T. L. Oddie. Comm & Fin Chr 119:647-9 Ag 9 '24
Supply of gold—prospects of chemical production. Economist 100:901-3 My 9 '25
Theory of "pockets" and nuggets. R. Clarke. Eng & Min J 116:898 N 24 '23
World's gold. J. E. Spurr. Eng & Min J 119: 67-85 Ap 25 '25
World's gold production in 1924. H. N. Lawrie. Eng & Min J 119:141-2 Ja 17 '25

See also Cyanide process; Gold as money; Gold assaying; Gold dredging; Gold metallurgy; Gold milling; Gold mines and mining; Gold ores

Transmutation of mercury

Making gold from quicksilver. J. Rubinfeld. Eng & Min J 118:730 N 8 '24
Our artificial gold investigation. il Sci Am 132:157 Mr '25
Tests fail to confirm transmutation to gold. il Sci Am 133:296-7 N '25
Why we are trying to make gold. Sci Am 131:389 D '24

GOLD alloys
History of the platinum metals. T: A. Wright. Brass W 20:70 F '24
List of alloys. W: Campbell. Metal Ind 23: 236 Je '25

GOLD as money
Accumulation of gold in the United States and its effect on banking credit. Econ W n s 27:508-10 Ap 12 '24
America's gold and the restoration of the gold basis in European countries. Econ W n s 29:188-90 F 7 '25; Same. Nat City Bank p 23-8 F '25
Are we demonetizing gold? H. P. Willis. Annalist 23:413+ Ap 7 '24
Australia, Holland, New Zealand and entire British Empire on gold basis. Comm & Fin Chr 120:2217-18 My 2 '25
Away with the gold standard? Eng & Min J 117:893, 1013-14 My 31, Je 21 '24
Bank rate and the gold standard. Economist 100:527-8 Mr 21 '25
Basic principle of standard money. W. de L. Benedict. Eng & Min J 118:984-5 D 20 '24
British influence on Reserve bank credit policies. B. H. Beckhart. Annalist 26: 571-3 N 6 '25
Canadian banking view of the gold problem of the United States. Econ W n s 27:694-5 My 17 '24
Changing aspects of our gold problem. H: A. E. Chandler. Comm M 6:3-12 Mr '25; Same. Econ W n s 29:328-32 Mr 7 '25
Cheap money, gold, and Federal reserve bank policy. B. M. Anderson, jr. Chase Econ Bul 4:3-26 Ag 4 '24; Excerpts. Comm & Fin Chr 119:651-2 Ag 9 '24; Econ W n s 28:184-6 Ag 9 '24
Commodity prices and the gold standard. R. McKenna. Manuf Rec 87:69-72 Mr 12 '25

GOLD as money—*Continued*
Countries of Europe which have returned to gold basis. Comm & Fin Chr 120:2888-9 Je 6 '25
Death of gold. G. Ferrero. Comm & Fin 13: 174-5 Ja 16 '24
Difficulty of preventing ultimate gold inflation. A. R. Marsh. Comm & Fin 13:1528 Ag 13 '24
Early return to gold. Economist 99:907-8 D 6 '24; Same. Econ W n s 29:17-18 Ja 3 '25
Economic difficulties in the United States and Europe caused by our continued imports of gold. Econ W n s 28:81-2 Jl 19 '24; Same. Nat City Bank p 101-2 Jl '24
Effect on United States of restoration of gold standard in Europe. W. F. Gephart. Comm & Fin Chr 120:41 Ja 3 '25
Federal reserve board on turn of tide in flow of gold. Comm & Fin Chr 121:281, 408 Jl 18-25 '25
Foreign banker and gold. O. Rydbeck. Annalist 24:477-8 N 10 '24
General currency conference proposed. Bradstreet's 53:129 F 21 '25
Gold and commodity price inflation. Index p 3-4 Ag '24
Gold and debts. H. R. Sleeman. Eng & Min J 117:772-3 My 10 '24
Gold and silver imported into and exported from the United States, by countries. Comm & Fin Chr 119:2478 N 29 '24 [continued monthly]
Gold and silver imports and exports. Published in monthly numbers of Federal reserve bulletin
Gold and the level of prices. Am Bankers Assn J 17:35+ Jl '24
Gold and the nation's welfare. J: Oakwood. Annalist 23:37-8+ Ja 7 '24
Gold exports from the United States and the restoration of the gold standard in foreign countries. Econ W n s 29:582-4 Ap 25 '25; Same. Fed Res Bul 11:231-4 Ap '25
Gold flow to United States and purchase of American securities abroad. H. Hoover. Comm & Fin Chr 117:2606 D 15 '23
Gold importations; criticism by Walter Leaf. Nat City Bank p 54-6 Ap '24; Same. Econ W n s 27:485-6 Ap 5 '24
Gold imports and exports in relation to banking credit in the United States. P. Jay. Econ W n s 29:221-4 F 14 '25
Gold imports and the reserve banks. Fed Res Bul 10:243-9 Ap '24
Gold movement. Nat City Bank p 180-3 N '25; Same. Econ W n s 30:657-9 N 7 '25
Gold movements. 1914-1924. Fed Res Bul 10: 571-2 Jl '24
Gold movements in 1924. Fed Res Bul 11:27 Ja '25
Gold production may raise the price level. W. I. King. Annalist 26:243-4 Ag 28 '25
Gold reserves of principal countries. Fed Res Bul 11:267-8 Ap '25; Same. Comm & Fin Chr 121:532-3 Ag 1 '25
Gold resumptions; a comparison and a forecast. Economist 100:1060-1, 1121-2 My 30-Je 6 '25
Gold situation. Fed Res Bul 10:269-70 Ap '24
Gold standard. Nat City Bank p 55 Ap '25; Same. Econ W n s 29.551 Ap 18 '25
Gold standard versus a managed currency; with some observations on the quantity theory of money. B: M. Anderson, jr. Chase Econ Bul 5:3-39 Mr 23 '25; Same. Comm & Fin Chr 120:1548-9 Mr 28 '25; Same cond. Bankers M 110:626 Ap '25; Summary. Econ W n s 29:449-50 Mr 28 '25
Gold standard without gold circulation. Economist 101:51-2 Jl 11 '25; Same. Econ W n s 30:161-2 Ag 1 '25
Die goldbilanz. M. Wellenstein. Stahl & Eisen 44:1245-9 O 9 '24
Golden flood and the price level. T. H. Price. Comm & Fin 13:171-2 Ja 16 '24
Has the gold influx stopped? G: E. Putnam. Am Bankers Assn J 17:545-7 Mr '25
Have we entered upon gold inflation? S. Bell. Comm & Fin 13:1437-8 Jl 30 '24
How the mechanism of the Federal reserve prevented a gold inflation. W. R. Burgess. Am Bankers Assn J 17:729-31 Je '25
If we pile up another billion in gold. G: E. Putnam. Am Bankers Assn J 16:721-3 My '24; Same. Econ W n s 27:868-71 Je 21 '24
Influence of the gold imports. Nat City Bank p 8-11 Ja '25; Same. Econ W n s 29:117-19 Ja 24 '25
Is the end of gold inflation approaching? T. H. Price. Comm & Fin 14:1913-14 S 30 '25
Is the flow of gold turning from America? J: Oakwood. Annalist 25:29-30 Ja 5 '25
Keeping track of the world's stock of monetary gold. B. Davenport. Am Bankers Assn J 17:321-2+ N '24
Moral value of the gold standard. Comm & Fin Chr 120:2478-9 My 16 '25
Necessity of keeping gold reserve high. P. M. Warburg. Comm & Fin Chr 118:272-3 Ja 19 '24
New adaptation of gold standard in Britain and Germany. E. E. Agger. Am Bankers Assn J 18:345-6+ N '25
Outflow of gold. Moody's Inv Serv 16:373-4 O 9 '24
Practicability of a return to the gold standard in Europe. G. Cassel. Econ W n s 27:724-6 My 24 '24
Production of gold in Australia and New Zealand in 1923. Econ W n s 27:369-70 Mr 15 '24
Question of the future value of gold in relation to the return to a gold basis in Europe. Econ W n s 29:306-7 F 28 '25
Reparations settlement and American gold. Econ W n s 28:341-2 S 6 '24
Resumption of gold imports largest thing in business situation. G: E. Roberts. Comm & Fin Chr 121:2229 N 7 '25
Restoration of the gold standard and the South African gold mining industry. S: Evans. Econ W n s 30:5-7 Jl 4 '25
Riddle of long time prices. W. I. King. Il Burroughs Clearing House 9:5-7+ Ag '25
Things to tell your men. G: E. Roberts. Nation's Business 13:52+ F '25
What does the gold movement foretell? E. T. Bullock. Annalist 24:703 D 29 '24
What shall we do with our excess gold? price inflation or guarding world's gold standard the alternatives. E: A. Bradford. Annalist 23:155-6+ Ja 28 '24
What the return to gold means. R. Hobson. Am Bankers Assn J 17:674+ My '25
Why prices are high. W. de L. Benedict. Eng & Min J 120:499-500 S 26 '25
Wonder in the rule of gold. F. H. Sisson. Am Bankers Assn J 18:33+ Jl '25
World gold situation as seen by a leading London bank. Econ W n s 28:45-6 Jl 12 '24

Argentina

Gold reserve of Argentina. Comm & Fin Chr 121:529 Ag 1 '25

France

Possibility of France returning to gold standard. Comm & Fin Chr 120:2361 My 9 '25

Germany

Dr. Schacht on the necessity of a real gold basis for the new German bank of issue. Econ W n s 28:161-2 Ag 2 '24

Great Britain

Action of reserve banks in making available credit to Bank of England to maintain gold standard was most constructive step in aid of American farmer. Comm & Fin Chr 121:282-3 Jl 18 '25
Adjustment of the British price level to the gold standard. A. R. Marsh. Annalist 26: 83-4 Jl 24 '25
Advisory council of the Federal reserve board on the restoration of the gold standard in Great Britain. Econ W n s 29:775 My 30 '25
Agitation in Great Britain on gold standard issue. Comm & Fin Chr 120:1687 Ap 4 '25
American and the gold standard—spoon feeding of London deprecated. H. Withers. Comm & Fin Chr 120:757-8 F 14 '25
British gold standard act and report of committee on currency. Fed Res Bul 11:375-8 Je '25; Same. Comm & Fin Chr 121:654-6 Ag 8 '25
British government's program for the restoration of the gold standard. Econ W n s 29: 629-30 My 2 '25

GOLD as money—Great Britain—*Continued*
British monetary policy in relation to gold, as seen from South Africa. S: Evans. Econ W n s 28:17-19 Jl 5 '24
British trade and a managed currency. Econ W n s 29:701-2 My 16 '25
Committee on the currency and Bank of England note issues. Economist 100:851-3 My 2 '25; Excerpts. Comm & Fin Chr 120:2359-60 My 9 '25
Criticism of Great Britain's gold policy. J. M. Keynes. Comm & Fin Chr 121:527-8 Ag 1 '25
Expected extension by United States of $500,000,000 gold basis credit to Bank of England. Comm & Fin Chr 120:1276-7 Mr 14 '25
Federal reserve board on return of Great Britain to gold standard. Comm & Fin Chr 120:2886-7 Je 6 '25; Same abr. Fed Res Bul 11:369-73 Je '25; Same. Econ W n s 29:917-19 Je 27 '25
Gold pound challenges our bankers and traders. H. P. Willis. Annalist 25:611 My 4 '25
Gold standard and industry in Great Britain. A. Kitson; F. Joseph. Manuf Rec 88:79-80 Ag 13 '25
Gold standard bill passed by British House of Commons. Comm & Fin Chr 120:2356-7 My 9 '25
Great Britain and the gold standard. C: E. Lyon. Econ W n s 29:485-6 Ap 4 '25
Great Britain resumes gold payments. Nat City Bank p 72-3 My '25
Great Britain's return to the gold standard. Bankers M 110:1021-4+ Je '25
Great Britain's return to the gold standard. R. M. Haig. Eng & Min J 119:756 My 9 '25
How the $200,000,000 credit for England was arranged. Am Bankers Assn J 17:728 Je '25
London banking opinion about the new British budget and the restoration of the gold standard. Econ W n s 29:773-5 My 30 '25
London bank's adverse opinion about an early return to the gold standard in Great Britain. Econ W n s 28:162 Ag 2 '24
New British budget; free gold market and workers' pensions. Index p 3-6 My '25
Question of displacement of gold standard by pound sterling. Comm & Fin Chr 118:2519-20 My 24 '24
Question of Great Britain's ability to maintain gold payments. Econ W n s 29:371 Mr 14 '25
Return of gold standard of Great Britain. Comm & Fin Chr 120:2216-17, 2358-61 My 2-9 '25
Return to gold. Economist 100:844-6 My 2 '25
Return to gold in England. F. Plachy, jr. il Burroughs Clearing House 9:5-7+ My '25
Sterling par—effect in America. I. Wright. Burroughs Clearing House 10:5-7+ O '25
Swiss bank corporation on return of Great Britain to gold standard. Comm & Fin Chr 121:803 Ag 15 '25
United States, by co-operating with Great Britain's efforts to return to gold standard, supplies constructive factor of greatest consequence. A. C. Miller. Comm & Fin Chr 120:2760 My 30 '25

Italy

Premier Mussolini denies reports that Italy intends to put lira on gold basis—only small portion of Morgan credit drawn on. Comm & Fin Chr 121:29 Jl 4 '25

Japan

Japan to ship gold to protect the yen. Comm & Fin Chr 121:1525 S 26 '25

Russia

Russian gold reserve—what became of it? Economist 100:1066-7, 1174-6 My 30, Je 13 '25
Unsolved mystery of the Russian gold. Am Bankers Assn J 18:3 Jl '25

South Africa

Gold resumption in South Africa. Index p 13-14 Ap '25
South Africa and the gold standard. Fed Res Bul 11:172-80 Mr '25
Work of the gold standard inquiry commission of the Union of South Africa. E. W. Kemmerer. Econ W n s 29:869-71 Je 20 '25

Sweden

Resumption of gold payments by the Swedish Riksbank. Fed Res Bul 10:483-5 Je '24; Same. Econ W n s 27:910-11 Je 28 '24
Return of Sweden to gold standard. Comm & Fin Chr 120:1279-80 Mr 14 '25

GOLD assaying
Recovery of gold at the U.S. assay office, New York, by the Cottrell electrical precipitation processes. N. W. Sultzer. diags Chem Age 33:5-8 Ja '25

GOLD Coast, Africa
See also Mines and mineral resources—Gold Coast, Africa

Bibliography

Gold Coast library. A. W. Cardinall. 36p F. Edwards, London '24

GOLD dredges
Bucket dredge for alluvial gold. il diag Engineering 119:697-9, pl 46 Je 5 '25
New gold dredge in Chile nears completion. il Eng & Min J 119:497 Mr 21 '25

Repair

Gold dredges and some of their repairs. il Am Mach 59:913-14 D 20 '23

GOLD dredging
History of Oroville gold dredging. L: E. Aubury. il Min Cong J 10:357-8 Ag '24
Methods of gold mining in eastern Siberia. A. P. Sviridoff. il diags map Eng & Min J 118:251-8 Ag 16 '24; Correction. 118:568 O 11 '24
L'or en Guyane française et les richesses aurifères du Mataroni. A. Perroud. Soc Ing Civils Bul 78:555-69 Jl '25
Recovery of placer gold from pot holes. Eng & Min J 118:928 D 13 '24

GOLD leaf

Manufacture

How gold leaf is made. Sci Am 130:244+ Ap '24

GOLD metallurgy
Ashanti again roasting its ore. W. R. Feldtmann. Eng & Min J 119:691 Ap 25 '25
Carbonaceous gold ore treatment. Eng & Min J 117:875; 118:102-3, 182 My 31, Jl 19, Ag 2 '24
Continuous vacuum filters in cyaniding. B. D. Kelly. flow sheet Eng & Min J 118:569-73 O 11 '24; Discussion. 118:702-3, 1021-2 N 1, D 27 '24
Fine grinding gold in the all-slime process. Eng & Min J 118:722-3 N 8 '24
Interesting placer ground near Wheatland, Wyoming. Eng & Min J 118:977 D 20 '24
Mining and milling rich gold ore on Chichagof Island. H. N. Baumann, jr. il diag Eng & Min J 117:876-9 My 31 '24
An old plan to recover gold in place. K. Thomas. il Eng & Min J 118:890 D 6 '24
Proper treatment of coarse gold. A. R. Smith. Eng & Min J 118:1023 D 27 '24
See also Amalgamation; Cyanide process; Gold milling

GOLD milling

Cost

Details of Hollinger's mining and milling costs. Eng & Min J 118:89 Jl 19 '24
Milling details at New York and Honduras Rosario. Eng & Min J 120:300 Ag 22 '25

GOLD milling—Cost—*Continued*
Operations at the United Eastern mill. E. M. Bagley. flow sheet il Eng & Min J 119:436-9 Mr 14 '25
Wright-Hargreaves lowers costs. Eng & Min J 117:647 Ap 19 '24

GOLD mines and mining
Gold and silver mining in 1924. S. J. Jennings. Eng & Min J 119:85 Ja 17 '25
Gold mining in 1923. S. J. Jennings. Eng & Min J 117:86-7 Ja 19 '24
See also Gold dredging; *also* Hollinger consolidated gold mines, ltd.

Costs
Details of Hollinger's mining and milling costs. Eng & Min J 118:89 Jl 19 '24

Alaska
Alaska's gold output in 1924 decreases. Eng & Min J 120:533 O 3 '25
Early tertiary placer deposit in the Yentna district. S: R. Capps. diags U S Geol S Bul 773—A: 53-61 '25
Geology and gold placers of the Chandalar district. J. B. Mertie, jr. U S Geol S Bul 773: 215-63, pl 6 '25
Lode-gold mining in northern Alaska is on the verge of a boom. H. H. Shockley. il Eng & Min J 116:912-13 N 24 '23
Mining and milling rich gold ore on Chichagof Island. H. N. Baumann, jr. il diag Eng & Min J 117:876-9 My 31 '24

Arizona
Exploration big need of Oatman district, in Arizona. G: J. Young. il Eng & Min J 116: 1088-9 D 22 '23

Australia
Argue for gold bonus in western Australia. Eng & Min J 120:269-70 Ag 15 '25
Ballarat gold-fields. W: Baragwanath, jr. 257p A. J. Mullett, Melbourne '23
Benefits of gold mining. R: Hamilton. Eng & Min J 119:822 My 16 '25
How Hargraves found the gold; the story of the discovery of the precious metal in Australia. T. A. Rickard. Eng & Min J 119:49-50 Ja 10 '25

Bohemia
Gold-mining activities in Bohemia. R. Goering. Eng & Min J 116:844 N 17 '23

Brazil
Deepest mines. T. T. Reed. Sci Am 129:385 D '23
Sketch of St John del Rey. Eng & Min J 120:248 Ag 15 '25

British Columbia
Expedition into the Whitewater. G: H. Shepherd. il Eng & Min J 117:930-2 Je 7 '24
Rich gold ore found in Windpass mine, north of Kamloops. Eng & Min J 116:1000 D 8 '23
Veindikes of the Engineer mine, near Atlin, B.C. W. H. Weed. il diag Eng & Min J 119:1037-40 Je 27 '25

California
Amador county—home of big gold mines. H. Tallon. il Min Cong J 10:317+ Jl '24
Days of old—days of gold. B. F. Hews. il Min Cong J 10:386-8 S '24
Glimpse of the colorful days of '49 in the gold fields of California. J. E. Taylor. Min Cong J 10:218-21 My '24
Gold placers of California. C: S. Haley. 167p [bibliog. p. 160-2] California state mining bur., Sacramento '23
Grass Valley shows mixed activity. G: J. Young. il Eng & Min J 117:1052-4 Je 28 '24
History of the Yuba River district, California. F. H. Probert. il Min Cong J 10:554-6+ D '24
Shall the federal government finance construction of debris dams? H. A. Finch. Eng & Min J 119:805-6 My 16 '25
World famous placers. R. F. Taylor. il Min Cong J 10:259-60 Je '24

Canada
Canada; greater activities in the gold districts. R. E. Hore. Eng & Min J 119:121-2 Ja 17 '25
Canada likely to displace United States as a gold producer, L: D. Huntoon. Comm & Fin Chr 119:264 Jl 19 '24

Colorado
Camp Bird compound veindike. J. E. Spurr. diags map Econ Geol 20:115-52 Mr '25; Same. Eng & Min J 119:517-29 Mr 28 '25

History
Cripple Creek: an inside story. N. E. Guyot. il Eng & Min J 118:933-7, 965-70 D 13-20 '24

Egypt, Ancient
Copper and gold mines of the ancient Egyptians. T. A. Rickard. il map Eng & Min J 119:1005-12 Je 20 '25

Germany
Gold mining in Germany. S. P. Grosse. Eng & Min J 117:765 My 10 '24

Guiana
L'or en Guyane française et les richesses aurifères du Mataroni. A. Perroud. Soc Ing Civils Bul 78:555-69 Jl '25

Idaho
Early days of the Coeur D'Alene mining district. E. Thomas. il Min Cong J 10:404-7 S '24
Geology and gold resources of Boise Basin, Boise county, Idaho. S: M. Ballard. 103p Univ. of Idaho, Moscow '24
Giant ledge syndicate developing property at Murray, Idaho; promises to be a lead-silver mine. R. G. McPhee. il Eng & Min J 120:707 O 31 '25

India
Indian gold mining in 1924. Economist 100: 1013-14 My 23 '25

Japan
Geology of the Sado gold mine, in Japan. H. Nishihara. il map Eng & Min J 118:137-8 Jl 26 '24
Some typical free-milling gold deposits of Japan. H. Nishihara. il map Eng & Min J 116:847-50 N 17 '23

Lapland
Gold prospecting in Lapland. Eng & Min J 120:139 Jl 25 '25

Manitoba
Bingo gold mines Herb Lake district in Manitoba. J. A. Reid and J. A. Dresser. Eng & Min J 119:736 My 2 '25

Minnesota
Gold rushes in Minnesota. C: N. Webb. Eng & Min J 120:661 O 24 '25

Montana
Red Mountain hydraulic mining co. completes dam. flow sheet il Eng & Min J 118: 705-6 N 1 '24

Philippine Islands
Benguet consolidated mining co. and Kirkland Lake gold mining co., ltd., reports. Eng & Min J 118:518 S 27 '24

Quebec
Extension of the Porcupine gold belt into Quebec. D. G. H. Wright and W. E. Segsworth. map Eng & Min J 117:763-4 My 10 '24
Gold seekers head for Rouyn in Quebec. A. B. Parsons. il maps Eng & Min J 117:936-8 Je 7 '24
Noranda mines, ltd., plans extensive development program. il Eng & Min J 120:466 S 19 '25

Rhodesia
Production of gold in Rhodesia in December and during 1923. Econ W n s 27:232 F 16 '24

GOLD mines and mining—*Continued*

Siberia

Conditions improving for mining ventures in Siberia. R. D. Adams. Eng & Min J 116: 814-15 N 10 '23
Methods of gold mining in eastern Siberia. A. P. Sviridoff. il diags map Eng & Min J 118: 251-8 Ag 16 '24; Correction. 118:568 O 11 '24
Russian Klondike attracts Siberians. A. Goldenweiser. Eng & Min J 119:576 Ap 4 '25
Soviet government signs contract with British corporation for exploitation of Lena Gold fields. Comm & Fin Chr 121:274-5 Jl 18 '25

South Africa

All-sliming plant at a South African mine. Engineer 139:595 My 29 '25
Consolidated gold fields of South Africa, limited, general meeting, London, Nov. 27. Economist 99:890-1 N 29 '24
Journey to South Africa. T. A. Rickard. Eng & Min J 120:337-8, 613-19 Ag 29, O 17 '25
Restoration of the gold standard and the South African gold mining industry. S: Evans. Econ W n s 30:5-7 Jl 4 '25
South Africa and Rhodesia mining in 1924. O. Letcher. Eng & Min J 119:126-7 Ja 17 '25
Transvaal and Rhodesia. Eng & Min J 117: 126 Ja 19 '24

See also Gold mines and mining—Transvaal

Transvaal

Crown mines, limited. Economist 98:1270-1 Je 21 '24
Gold mining on the Witwatersrand. Economist 100:339-40 F 21 '25
Johnnies group in 1924. Economist 100:703-4 Ap 11 '25
Medical care of South African natives on the gold mines of the Witwatersrand. L: E. Hertslet. il J Ind Hygiene 6:291-305 N '24
Production of gold at the Rand mines in December and during 1924. Econ W n s 29:88 Ja 17 '25
Rand mines gold output. Engineer 137:507 My 9 '24
Transvaal gold production for the years 1920 to 1924. Eng & Min J 118:437 S 13 '24
Witwatersrand goldfield of the Transvaal area. Eng & Min J 120:283 Ag 22 '25

United States

Gold and silver relief recommended by commission. Min Cong J 11:44+ F '25

Venezuela

Gold in southeastern Venezuela. F. D. Pagliuchi. il diag map Eng & Min J 120:485-91 S 26 '25
Les mines d'or de la Guyane vénézuélienne et le Callao. E. Bernet. il plans maps Génie Civil 87:207-11 S 5 '25

Washington

Republic, Washington, needs capital. O. W. Freeman. il Eng & Min J 119:378-9 F 28 '25

GOLD ores

Camp Bird compound veindike. J. E. Spurr. diags map Econ Geol 20:115-52 Mr '25; Same. Eng & Min J 119:517-29 Mr 28 '25
Extension on the Porcupine gold belt into Quebec. D. G. H. Wright and W. E. Segsworth. map Eng & Min J 117:763-4 My 10 '24
Geologic distribution of gold. T. A. Rickard. Eng & Min J 119:486-7 Mr 21 '25
Gold ores of Grass Valley, California. E. Howe. Econ Geol 19:595-619, pl 10-11; Discussion. 619-22 N '24
Gold veins of sundry areas in the Idaho batholith. F. A. Thomson. il diags maps Eng & Min J 118:533-40 O 4 '24
Mode of formation of the Porcupine quartz veins. E. Y. Dougherty. il diags Econ Geol 20:660-70 N '25
Ore magmas versus magmatic waters. J. E. Spurr. Eng & Min J 119:890 My 30 '25
Origin of Wilshire gold ore. H: W. Turner. Eng & Min J 118:172 Ag 2 '24
So-called pseudomorphous quartz of tertiary gold-silver veins. P. G. Morgan. bibliog il Econ Geol 20:203-7 My '25
Veindikes of the Engineer mine, near Atlin, B.C. W. H. Weed. il diag Eng & Min J 119:1037-40 Je 27 '25; Discussion. H. C. Boydell. 120:538-9 O 3 '25

GOLDSMITHING

See Jewelry

GOLF

Choose games for your mind's sake. il Nation's Health 7:345-6 My '25
Financing and operating the golf club. C. S. Taylor. il plan Arch Forum 42:165-8 Mr '25
Golf hazards after fifty. C. W. Lieb. Comm & Fin 14:603-4 Ap 1 '25
Golf repercussions. Comm & Fin 13:1699 S 10 '24
Golf's great debt to advertising. W. L. Larned. il Ptr Ink M 11:24-6 Jl '25
Prohibit golf by a constitutional amendment. T. H. Price. Comm & Fin 13:1617-19 Ag 27 '24
What the golfer wants in his club. G. Rice. il Arch Forum 42:129-30 Mr '25

See also Advertising—Golfers, Appeal to

GOLF balls

Special machines for making and testing golf balls. H. M. Platt. il India Rubber W 71:80 N '24

GOLF clubs

Large uses of steel in small ways. il Iron Tr R 75:878 O 2 '24

GOLF links

Landscaping a golf course. D. Emmet. il Arch Forum 42:153-6 Mr '25
Planning the golf course. A. W. Tillinghast. il plan Arch Forum 42:159-60 Mr '25

Lighting

Night golf at Briarcliff convention. W. T. Dempsey. il diags Illum Eng Soc 19:882-7 N '24

GOLF links, Municipal

Municipal golf courses. Eng & Contr (R & S) 61:327 F 6 '24
Municipal golf courses. H. Taylor and T. J. Moreau. il Arch Forum 42:161-4 Mr '25

GOMPERS, Samuel, 1850-1924

Appreciation. Taylor Soc Bul 9:239-40 D '24
Organized labor looks up; last message of Samuel Gompers. M: Wool. Forbes 15:393-4 Ja 1 '25
Sketch. Comm & Fin Chr 119:2839-40 D 20 '24

GOOD roads show, National. See National good roads show

GOOD will (in business)

Boll weevil of advertising; disregarding customer relations. C. Bold. Sales Management 7:1477-8 S '24
Courtesy plus—and a $1,750,000 business; Ford service and sales station. A. Coombs. il System 46:48-51 Jl '24
Good will and its valuation. A. C. Ernst. Ptr Ink 130:3-4+ Mr 19 '25
Good-will—going and coming. J. H. Collins. Ptr Ink M 11:48+ O '25
Past advertising helps determine sale price of good-will and trade-marks; Pioneer suspender company will extend outlets of sale of Kazoo waists. Ptr Ink 126:10+ Ja 31 '24
When business institutions pay the part of good hosts; some services of good-will. J: A. Murphy. Ptr Ink M 11:45-6+ O '25
Why good-will was not appraised for Kodak's sale of factories. Ptr Ink 128:10+ Ag 7 '24

See also Advertising, Educational; Advertising, Institutional; Complaints; Public utilities—Advertising; Public utilities—Public relations; Publicity

GOODHUE, Bertram Grosvenor, 1869-1924

Appreciation. Am Inst Arch J 13:155 My '25

GOODHUE, Bertram Grosvenor—*Continued*
Award of gold medal to the late Bertram Grosvenor Goodhue. J: H. Finley. por Am Arch 127:439, 442 My 20 '25
Five architects and one truth. Am Inst Arch J 12:401-5 S '24
Sketch. por Am Arch 125:477-8 My 21 '24; Am Inst Arch J 12:242, 276 My-Je '24; Arch Forum 40:288 Je '24; por Arch Rec 55: 468a-d My '24

GOODING bill. See Railroad law

GOODRICH, B. F. rubber company
We make inventing an every-day job. J: R. Gammeter. il System 47:181-3+ F '25

GOODYEAR tire and rubber company, Akron, Ohio
America to take world leadership in dirigible development; impending purchase of Zeppelin rights and patents by Goodyear. Automotive Ind 49:953-4 N 8 '23
Annual report for year ended Dec. 31, 1924. Comm & Fin Chr 120:821 F 14 '25
Goodyear co. acquires Zepplin airship patents. Aviation 15:599-600 N 12 '23
Goodyear tire & rubber deb. 8s, 1931. Moody's Inv Serv 16:431 N 28 '24

GOODYEAR tire and rubber company of Canada, ltd.
Annual report for year ended Sept. 30, 1923. Comm & Fin Chr 117:2107-8 N 10 '23

GORDIUS. See Hair worms

GORILLAS
Saving man's first cousin, the gorilla. il Sci Am 132:198-9 Mr '25

GOSSYPYL alcohol
Alcohols present in the wax of American cotton. R. G: Fargher and M. E. Probert. bibliog Textile Inst J 15:T337-46 Je '24; Abstract. Soc Dyers & Col J 40:300 S '24

GOTHIC architecture. See Architecture, Gothic

GOVERNMENT accounting
See Municipal accounting

GOVERNMENT advertising
Biggest thing printed salesmanship ever did; selling War department surplus. U. V. Wilcox. Ptg Art 44:141-5 O '24
Building an empire with advertising. E. W. Beatty. Ptr Ink 128:61-2+ Jl 17 '24
Canada spending half-million dollars to attract new citizens. B. R. Brooker. Ptr Ink 126:33-4+ Ja 24 '24
Government service in need of advertising; citizen's training camp. Ptr Ink 132:95-6 Jl 30 '25
Government to sell prohibition by advertising. Ptr Ink 130:154+ Ja 15 '25
Government uses advertising to combat substitution; Porto Rico tobacco. R. Rockafellow. Ptr Ink 126:105-6 Mr 27 '24
See also Municipal advertising; State advertising

GOVERNMENT aid to business. See Export trade—Government aid; Industry and state; Merchant marine—Government aid; United States—Foreign and domestic commerce, Bureau of; United States—Government printing office

GOVERNMENT bank deposits. See Bank deposits, Government

GOVERNMENT bonds. See Bonds, Government; County bonds; Municipal bonds

GOVERNMENT buildings. See Public buildings

GOVERNMENT bureaus
Advertising opportunities that abound in the waste products of industry; help afforded at Washington. Ptr Ink 126:97-8+ Mr 20 '24
American institute of chemical engineers discovers scientific Washington. il Chem & Met Eng 29:1089-96 D 17 '23
Government and machine-tool industry; abstracts. G: K. Burgess. Am Mach 61:513-15 S 25 '24; Mech Eng 46:645-7 O '24

GOVERNMENT efficiency. See Efficiency, Government

GOVERNMENT employees
Chemical history told in correspondence; legality of private control of dissemination of public scientific information. Chem Age 32: 1-5 Ja '24
Legal position of public servants in France. A. Boissard. Int Labour R 12:317-45 S '25
Need for correlation of personnel activities in the federal service. H. A. Filer. Ann Am Acad 113:220-6 My '24
Plan to administer patents of government employees. Chem & Met Eng 30:311-14 F 25 '24
Politician as personnel manager—the cost to the taxpayer. L. D. White. Ann Am Acad 113:306-11 My '24
Tragedies of Washington; ex-Congressmen and government employees. J. B. Morrow. Nation's Business 12:20-2 Je '24
Try it on the ships. W: Hard. Comm & Fin 13:2325 D 3 '24
See also Civil service; Civil service pensions; Municipal employees; Postal workers; United States—Navy department—Employees

Salaries

Regulation of salaries of civil-service employees in Austria. Monthly Labor R 20:324-5 F '25
Uncle Sam's handicap in business. N. Olds. Nation's Business 13:39 Jl '25
See also Municipal employees—Salaries; State employees—Salaries

GOVERNMENT expenditures. See United States—Appropriations and expenditures

GOVERNMENT information service. See Information service, Government

GOVERNMENT monopolies
Government monopolies, W: S. Culbertson. Ann Am Acad 112:66-74 Mr '24

GOVERNMENT ownership
Advantages of private ownership vs. government ownership. A. Williams. Manuf Rec 88:89-90 Jl 9 '25
Calls the industry to arms. F. T. Griffith. Elec W 84:683-5 S 27 '24
Case against political ownership. M. H. Aylesworth. J Elec 53:153-9 S 1 '24
Common problems of insurance and public utility enterprises; abstracts. H: S. Ives. Econ W n s 27:600-2 Ap 26 '24; Aera 12: 1750-5 My '24
Complete public ownership and operation in Russia. P. S. Clapp. N E L A Bul 12:355-9 Je '25
Dangers involved in the proposals of Senator La Follette's party. H. Hoover. Comm & Fin Chr 119:1917-19 O 25 '24; Same. Elec Ry J 64:555-8 O 4 '24; Same. Ry Age 77:593-6 O 4 '24; Same cond. Elec W 84:727-9 O 4 '24; Same cond. Eng N 93:626-7 O 16 '24; Same cond. J Elec 53:289-91 O 15 '24; Excerpts. Ry R 75:515-18 O 4 '24; Gas Age 54:739-40+ N 22 '24
Government in business. G: A. Hughes. N E L A Bul 11:545-51 S '24
Government ownership of public utilities. W. N. Doak. Ry Age 77:741-4; Discussion. 728-9 O 25 '24
Government ownership principle not American. H. Holden. Ry Age 77:694-6 O 18 '24
How business men aid government ownership schemes. H: S. Ives. N E L A Bul 11:287-8 My '24
Italy discarding government ownership. L. Luiggi. Elec W 84:805-6 O 11 '24
Municipal (government) ownership vs. corporation (private) ownership of public utilities. B. J. Mullaney. N E L A Bul 11:474-6 Ag '24
Political adventuring with the public's pocketbook. J: A. Laing. J Elec 51:441-3 D 15 '23; Same. N E L A Bul 10:715-18 D '23
Political ownership of utilities from a woman's point of view. L. A. McArthur. J Elec 53: 160-1 S 1 '24
President Coolidge opposes government ownership. Ry Age 77:592 O 4 '24

GOVERNMENT ownership—*Continued*
Problem of all private business. B. I. Budd. Elec W 85:1117-18 My 30 '25
Public ownership. F. G. R. Gordon. Am Gas Assn General Sessions sec v 5:306-13 '23
Public ownership. C. D. Thompson. 445p [bibliog. p. 427-35] Crowell '25
Public ownership, here and abroad, before, during and after the war. H. W. Laidler. 72p League for industrial democracy, New York '23
Public ownership of utility industries. J: A. Laing. Gas Age 52:759-61 D 22 '23; Same. Am Gas J 120:236-7+ Mr 15 '24
Public vs. private ownership. J: G. Sullivan. Can Eng 48:425 Ap 21 '25
Railway and utilities commissioners again condemn political ownership; report of committee. N E L A Bul 11:729-31; 12:28-32 D '24-Ja '25
Shall the public attend to public business? S. Bell. Comm & Fin 13:2100-1 O 29 '24
Things to tell your men. G: E. Roberts. Nation's Business 13:52+ Ap '25
Where public ownership fails. A. T. Hadley. il Nation's Business 13:15-17 Ja '25

See also Cement plants—State ownership; Coal mines and mining—Government ownership; Electric utilities—Government ownership; Government regulation of industry; Mines and mineral resources—Government ownership; Municipal ownership; Public utilities; Railroads and state

GOVERNMENT paper. See Paper, Government

GOVERNMENT printing. See Printing, Public

GOVERNMENT printing office. See United States—Government printing office

GOVERNMENT publications
Effective selling material from government reports. Ptr Ink 130:129-30+ Ja 22 '25
Government reports that trade associations may publish. Ptr Ink 133:183-4+ N 5 '25
Greatest mail-order information business in the world; distributing government publications. Ptr Ink 132:113-14+ Jl 16 '25
How the government aids progressive printers and advertisers. U. V. Wilcox. Ptd Salesmanship 45:549-54 Ag '25
Obsolete federal documents. M. A. Hartwell. Lib J 50:587-90 Jl '25
This plan will speed publication of federal reports. Ptr Ink 133:150+ O 22 '25

See also British library of information; Municipal publications

Bibliography

Catalogue of the library of the United States Senate. 1210p (U.S. Congress. Senate. Library) Govt. ptg. off., Washington '24
Government publications. See monthly numbers of Industrial and engineering chemistry

GOVERNMENT purchasing. See Purchasing, Government

GOVERNMENT regulation of industry
Big business alone with its conscience. K. Van Stam. Forbes 14:613-15 Ag 15 '24
Blight of government in business. G: E. Roberts. il Nation's Business 11:15-17 D '23
Breadth of the commerce clause. J: J. Esch. Aera 13:1359-67 Mr '25
Bullying big business: the case of cement. L. Dale. Comm & Fin 14:819-20 Ap 29 '25
Can business be trusted to govern itself? C. M. Wright. Ptr Ink 127:3-4+ My 29 '24
Cost of nationalism in Czecho-Slovakia. H: Obermeyer and A. L. Greene. il Am Mach 60:291-4 F 21 '24
Experiments in state control in New Zealand; Arbitration court, Board of trade. J. B. Condliffe. Int Labour R 9:334-60 Mr '24
Farm market situation as a banker sees it. J. P. Harris. Ptr Ink 128:73-4+ Jl 10 '24
Government aid to young barristers. Nation's Business 12:34+ Jl '24
Governmental relation to business. H: M. Payne. Min Cong J 10:458-60 O '24
Illusion of federal commissions. G: E. Roberts. Nation's Business 12:42+ Ja '24
Law and economic life. J. M. Clark. Univ J of Business 3:350-77; 4:47-70 S-D '25
Let us have business peace. E: A. Bradford. Annalist 23:111-12+ Ja 14 '24
Old as the hills is state regulation. J. E. Boyle. il Nation's Business 12:24-6 D '24; 13: 45-6 Ja '25
Politics as a cause of disturbance for American business. Econ W n s 28:8-10 Jl 5 '24
Recent federal trade cases. Published in monthly numbers of Nation's business
Relation of government to industry. M. L. Requa. 241p Macmillan '25
Test case on government interference in business; reports on price trends. J: F. Richter. Ptr Ink 125:17-18 D 27 '23
When competition can be best regulator for business. Ptr Ink 128:25-6+ Ag 7 '24
Why call on trust busters? wholesale grocers' fight to stop packers from handling allied food products. Ptr Ink 127:33-4+ Je 5 '24

See also Coal trade—Regulation; Commercial policy; Electric utilities—Regulation; Federal trade commission; Gas companies—Regulation; Government ownership; Industry and state; Interstate commerce commission; Labor laws and legislation; Municipal ownership; Petroleum industry and trade—Regulation; Price fixing, Government; Priorities, Industrial; Public utilities—Regulation; Public utilities commissions; Railroads—Rates; Railroads and state; Restraint of trade; Street railroads—Regulation; Trusts, Industrial; Waterworks—Laws and regulations

GOVERNMENT research
Publicity for investigations—two policies. Pub Works 55:376-7 D '24
Science and industry in America. W. Rosenhain. Engineer 136:468-9, 494-6, 522-4 N 2-16 '23

See also Municipal research

GOVERNMENT statistics
Canadian plan of organization of government statistics. R. H. Coats. Am Statis Assn J 20:90-3 Mr '25

GOVERNMENTAL labor officials of the United States and Canada, Association of. See Association of governmental labor officials of the United States and Canada

GOVERNORS, Gas. See Gas governors

GOVERNORS (machinery)
Action of inertia governor. diag Power 62: 221 Ag 11 '25
Action of unaflow engine governor eccentrics. W. Turnwald. Power 59:94-6 Ja 15 '24
Characteristics of the internal-combustion-engine governor. E: F. Lowe. Soc Auto Eng J 17:268-70; Discussion. 270-2 S '25
Emergency governor for steam turbine. diags Engineering 120:129-30 Jl 31 '25
Die fahrtregler der dampffördermaschinen. H. Hoffmann. diags Zeit Ver Deutsch Ing 68: 1214-18 N 22 '24
Governing devices of Westinghouse geared turbine units. il diags Power 58:770-3 N 13 '23
Governors for hydraulic turbines. W. M. White. il Power Pl Eng 27:1178-82 D 1 '23
How governor controls Diesel speed. il diags Marine R 55:17-19 Ja '25
Power supply for governor pumps. R. Brown. il Power 59:92-3 Ja 15 '24
Principles of shaft governors. il Power Pl Eng 28:1166 N 15 '24
Regulation of pump output. C: L. Hubbard. diags Power 62:367-9 S 8 '25
Waterwheel construction and governing. E. M. Breed. Am Inst E E J 42:1261-3 D '23; Discussion. 43:261-2 Mr '24

See also Gas governors

Testing

Test code for speed-responsive governors. Mech Eng 46:713-16 N '24

GRAB buckets. See Buckets

GRADE crossing accidents
Automobile accidents at grade crossings. Ry Age 78:350-1 F 7 '25
Can the grade crossing problem be solved? R. H. Ford. Ry Age 76:1331-3 My 31 '24
Careful crossing campaign. F. N. Metcalfe Safety Eng 48:24-6 Jl '24
Compromise settlements in crossing accidents. Ry Age 76:1316 My 31 '24
Constructive review of the grade crossing problem; abstracts. W. S. Williams. Ry R 75:320-3 Ag 30 '24; Ry Age 76:1823 Je 28 '24
Cooperation in the prevention of grade crossing accidents. R. H. Aishton. Nat Safety N 11:8 My '25
Determining the need of grade crossing protection. F. W. Hillman. Ry Age 77:502-3 S 20 '24
Every month is careful crossing month with Standard oil drivers. Nat Safety N 11:32 Je '25
First annual conference for prevention of railway-highway crossing casualties, Chicago, April 30-May 1. Ry R 74:796-7 My 3 '24; Ry Age 76:1137-40 My 10 '24; Nat Safety N 9:42 Je '24
Fourth careful crossing campaign calls for public support. L. G. Bentley. Nat Safety N 11:5-7 My '25
Grade crossing accidents in the first 11 months of 1924. Eng & Contr (Ry) 63:608 Mr 18 '25
Grade crossing fatalities decrease in 1924. Nat Safety N 11:20 Ap '25
Grade crossing hazard discussed by C.E.R.A. Elec Ry J 65:109-10 Ja 17 '25
Grade crossing in an electric railway's safety program. A. W. Koehler. Nat Safety N 11:9-10 My '25
Grade crossing problem—a public responsibility. H. A. Rowe. Nat Safety N 10:5+ My '24
Grade crossing problem in New York state. Ry R 76:154-5 Ja 17 '25
Greater safety at railroad highway crossings. C: E. Hill. Munic & Co Eng 67:233-8 N '24
Hazards and safeguards of highway structure; report of National conference on street and highway safety. Eng N 94:17-18 Ja 1 '25; Ry Age 77:1128 D 20 '24; Génie Civil 86: 441-2 My 2 '25
Motorist and grade crossing protection. W. Pritchard. Munic & Co Eng 67:317-19 D '24
Preventing grade crossing and highway accidents. W. Muir. Elec Ry J 65:111 Ja 17 '25
Prevention of grade crossing accidents. W. S. Williams and F. E. Williamson. Ry Age 78:1535-6 Je 20 '25
Protection of highway traffic at crossings. A. H. Rudd. il Ry Age 76:557-8 Mr 8 '24
Protection of railroad grade crossings. Ry Age 77:513-15 S 20 '24
Recommendations for prevention of crossing accidents. Ry Age 77:995-6 N 29 '24
Report of Safety section committee on crossing accidents. Ry Age 78:1151-2 My 9 '25
Report on automobile accident at Gaithersburg, Md. Ry Age 79:272 Ag 8 '25
Rules of the road and how to enforce them to increase safety. T. H. Carrow. Munic & Co Eng 67:203-6 O '24
Safety at grade crossings. W. H. Hyland. Aera 12:819-21 D '23
Safety regulations at railroad grade crossings. C: E. Hill. Nat Safety N 10:6-8 My '24; Abstract. Ry Age 76:462 F 23 '24
Think, driver, think! Bus Transportation 4: 281 Je '25
Think of the engineer, if not of yourself. il Nat Safety N 11:13-14 Mr '25

GRADE crossing elimination
Cost of N. Y. C. electrification and grade crossing elimination in New York. Ry Age 76:258 Ja 19 '24
Crossing elimination by relocation. C. F. Loweth. Eng N 92:583-4 Ap 3 '24; Discussion. M. W. Torkelson. Eng N 92:870-1 My 15 '24
Eliminating a highway bottleneck in New Jersey. diags map plan Eng N 95:176-8 Jl 30 '25
Eliminating grade crossings by highway relocation. M. W. Torkelson. diag Eng N 92:403-5 Mr 6 '24
Elimination of grade crossings. R. H. Ford. W Soc E J 29:321-6 Ag '24
Elimination of highway grade crossings; A.R.E.A. report. il Ry R 76:533-5 Mr 14 '25
Grade crossing elimination in Los Angeles county. E. E. East. il Nat Safety N 10:12 S '24
Grade crossing elimination ordered at Niagara Falls, N.Y. Ry R 74:215 F 2 '24
Grade crossings as a municipal engineering problem. Eng N 93:579-81 O 9 '24
Grade separation on federal-aid roads. Eng N 92:62 Ja 10 '24
Kensington-Delavan grade crossing elimination. il diags plans Ry R 75:383-9 S 13 '24
New York state to spend millions on grade crossings. Ry Age 79:855 N 7 '25
Special message to New York legislature by Governor Smith urges action on abolition of grade crossings; text. Comm & Fin Chr 118: 1226-7 Mr 15 '24; Abstract. Ry Age 76:545-6 Mr 8 '24
Subway eliminates crossing with peculiar conditions. il diags plan Ry R 75:18-21 Jl 5 '24
Three-tier grade separation in San Diego, Calif. il Eng N 94:990-1 Je 11 '25
Traffic delay rather than safety governs in grade crossing elimination. A. Richards. Eng N 94:349 F 26 '25
Whose problem is grade separation? Ry Age 76:916-17 Ap 12 '24

See also Railroads—Track depression; Railroads—Track elevation

Finance

Financing railroad grade crossing elimination. W: D. Hudson. Eng N 95:56-8 Jl 9 '25

GRADE crossings
Automatic barriers protect highway crossing. il diags Ry Age 76:735-8 Mr 15 '24
Automatic signals for a railroad grade crossing. il diags Ry Age 76:735-8 Mr 15 '24
Automatic speed control device for railroad grade crossings. il Eng N 93:432 S 11 '24
C. R. S. flangeway guard for highway crossings. il Eng & Contr (Ry) 61:1143 My 21 '24
Danger of level crossings. Can Eng 49:521 N 3 '25
Five-fold highway crossing warning. il diag Ry Age 77:561 S 27 '24; Same. Eng & Contr (R & S) 62:1207-8 D 3 '24
Grade crossing device at Cottondale, Fla. il Ry R 76:626 Mr 28 '25; Ry Age 78:928, 1098 Ap 11, My 2 '25
Highway signals in Acworth. Ry Age 76:179 Ja 12 '24
It sounds impossible, but—; Chicago, North Shore & Milwaukee railroad installs a grade crossing barrier. il Aera 13:796-9 D '24
Level crossings; report to the International railway congress. Engineer 139:646 Je 12 '25; Engineering 120:9 Jl 3 '25; Ry Age 79: 84-5 Jl 11 '25
Light reflecting prism for railroad and crossing signs. il Ry Age 77:69 Jl 12 '24; Same. Eng & Contr (R & S) 62:544 S 3 '24
New form of steel highway crossing. diag Iron Age 115:735 Mr 5 '25
New highway crossing signal. il Elec Ry J 63:590 Ap 12 '24
New type of electrically operated highway crossing gate. il diags Ry R 75:410-11 S 13 '24
Obstructions to view at grade crossings. E. Crawford. Munic & Co Eng 67:212-14 O '24
Paving railway grade crossings with Kentucky rock asphalt. diag Eng N 94:404 Mr 5 '25
Protective device at grade crossing. il Eng & Contr (R & S) 63:719 Ap 1 '25
Railroad crossings and warning signals. Automotive Ind 53:403 S 10 '25
Railway signaling methods for public roads. L. E. Moore. il Eng N 94:143-4 Ja 22 '25

GRADE crossings—*Continued*
Report on grade crossings. Ry Age 75:1068-9 D 8 '23; Eng & Contr (Ry) 61:169-70 Ja 16 '24
Saving lives at crossings. G. H. Shaw. il Aera 13:383-4 O '24; Excerpt. Eng & Contr (Ry) 62:1106 N 19 '24
Selection of best wood for highway crossings. J: Foley. Eng & Contr (Ry) 61:1112 My 21 '24
Signs and railroad crossings. J. J. Griffith. Eng & Contr (R & S) 63:1233-4 Je 3 '25
Solutions of the highway grade crossing problem. A. R. Losh. Eng & Contr (R & S) 62: 735-7 O 1 '24
Standard crossing signals urged by auto association. Ry R 77:254 Ag 15 '25
State officer's viewpoint of the crossing problem. F. T. Singleton. Ry Age 78:1153 My 9 '25
Street crossings of railroad tracks. P. L. Brockway. Eng & Contr (R & S) 62:1043-4 N 5 '24
Study of a highway railroad crossing. W: S. Wollner. il diag Nat Safety N 9:27-8 Ja '24
Traffic control at grade crossings by mechanical devices. A. H. Blanchard. Eng & Contr (R & S) 64:995-1000 N 4 '25; Same cond. Good Roads 68:303-5+ D '25
Unsatisfactory crossing whistle. Ry Age 75: 417, 1045-6, 1144, 1190; 76:177, 274 S 8, D 8, 22-29 '23, Ja 12, 26 '24
Where the trolley line meets the Connecticut highway. A. W. George. Nat Safety N 11:10 My '25
Whistle signals aid grade crossing safety. il Nat Safety N 8:34 O '23
Yielding barrier for a highway crossing on North Shore line. il Ry Age 77:805-6 N 1 '24

See also Grade crossing elimination; Railroads—Track depression; Railroads—Track elevation

GRADING
How much does screen testing mean? R. B. Ladoo. il Chem & Met Eng 31:623-6 O 20 '24

See also Elutriation

GRADING (earthwork)

See Roads—Grades; Roads—Grading; Roads—Subgrades

GRADUATING
Graduating a planer gage. R. P. Chandler. diag Mach 31:800 Je '25
Graduating in a turret lathe. H. F. Crawford. il Am Mach 61:351 Ag 28 '24

GRAFFITO decoration
How sgraffito decoration is done. S. B. Baylinson. il Concrete 23:193 N '23; Same. Eng & Contr (Bldgs) 60:1117-18 N 28 '23

GRAFTING
Grafting experiments on vegetables. Sci Am 131:372 N '24

GRAIN

See also Corn; Wheat

Prices
Economic explanation of the rise of prices in the grain markets. A. R. Marsh. Econ W n s 28:147-8 Ag 2 '24
Oats, rye, corn and wheat in 1924. Annalist 25:40 Ja 5 '25
Week's price range of grain. Published in weekly numbers of Annalist
What price demagogy? J. H. Barnes. Nation's Business 13:15-17 F '25

Salvaging
Salvaging grain at derailments and in yards. E. F. Ford. Ry Age 78:1470 Je 13 '25

Transportation
I.C.C. declines to reduce grain rates. Ry Age 77:157-63 Jl 26 '24; Excerpt. Ry R 75:144-5 Jl 26 '24
Interstate commerce commission reopens grain rate investigation. Ry Age 75:983 N 24 '23
Moving the crop, Canadian Pacific railway. E. D. Cotterell. il map Ry R 75:697-700 N 8 '24

GRAIN cars
Departure in car design for handling granular commodities. il Ry R 76:780-1 Ap 25 '25
Hopper-body steam car for grain transport. diags Cassier's Ind Management 12:342 Je '25
Remedying the grain leaking evil. il Ry R 77: 703-5 N 7 '25
Some latent and elusive lines of development in car construction. il diag Ry R 76:603-5 Mr 28 '25

See also Grain doors

GRAIN doors
New plan regarding grain car doors. E. H. Shaufler. Ry R 76:1050 Je 13 '25
Paget system of grain car coopering. il Ry Age 76:948 Ap 12 '24

GRAIN elevators
Baltimore & Ohio R.R. constructs large export elevator. Ry R 74:259 F 9 '24
Development of the port of Montreal. M. T. Sheehy-Casey. il Can Eng 47:513-18 N 18 '24
Dust removal in grain elevators. diags Sheet Metal Worker 15:424 Je 20 '24
Explosions in grain elevators. Can Eng 48: 203-4 F 3 '25
Grain elevator operation with automatic box car unloader. il plan Ry R 75:732-7 N 8 '24
Grain in bulk; the adaptation of a floored warehouse for its reception and storage. M. Jennings. il diag Electrician 91:725-7 D 28 '23
Locust Point grain elevator, B. & O. R. R. il diag plans Ry R 77:191-6 Ag 8 '25
Moving forms used on framed concrete building. J. O. B. Coulling. il diags plan Eng N 94:933-6 Je 4 '25
New elevator at Edmonton. il Can Eng 49: 130-1 Jl 14 '25
Port Colborne elevator annex. F. D. Haviland. il diag Can Eng 47:357-8 S 23 '24
Recent advancement in the construction and operation of grain elevators. L. C. Hill. Engineering 119:674-5 My 29 '25
Reliance terminal elevator, Fort William. D. V. Whitehead. il Can Eng 48:433-4 Ap 28 '25
Report on dust control in grain elevators. Nat Safety N 9:42 Ap '24
Le silo à grains du port de Dunkerque. P. Caufourier. il diags plan Génie Civil 86:421-5 My 2 '25
$10,000,000 Baltimore & Ohio grain elevator and terminal improvements. il Manuf Rec 86:76-7 S 11 '24
Terminal operation at Ft. William, Ontario. il Ry R 75:901-7 D 6 '24

GRAIN handling
Experimental investigation of a pneumatic grain-conveying unit. diags Mech Eng 46: 548-50 S '24
Floating pneumatic grain elevators for the Port of London. il diags Engineer 139:296-8, 300 Mr 13 '25
Handling grain in lighter harbors. il Sci Am 131:213 O '24
Pneumatic grain elevators. W. Cramp and A. Priestley. Engineer 137:34-6, 64-5, 89-90, 112-13 Ja 11-F 1 '24
Le silo à grains du port de Dunkerque. P. Caufourier. il diags plan Génie Civil 86:421-5 My 2 '25

GRAIN marketing company
Farmer tackles his biggest job. O. M. Kile. il Nation's Business 12:36-7 O '24
Farmers buy grain elevators. Index p 6-7 Ag '24
Formation of Grain marketing company through merger of five grain concerns. Comm & Fin Chr 119:271, 408, 537-8 Jl 19-Ag 2 '24
Gigantic co-operative marketing venture; the Grain marketing company. S. Bell. Comm & Fin 13:1399 Jl 23 '24
Grain marketing company organization. Bradstreet's 52:462-3 Jl 19 '24

GRAIN marketing company—*Continued*
Grain marketing company, while relinquishing companies included at time of its formation, will continue as co-operative organization. Comm & Fin Chr 121:278, 662-3 Jl 18, Ag 8 '25
What we are trying to do. G. Silver. il Am Bankers Assn J 17:145-6 S '24
When the Josephs failed. Comm & Fin 14: 1364 Jl 15 '25

GRAIN storage
See Grain elevators

GRAIN trade
Corn trade, 1924. Economist 100:sup28-9 F 14 '25
Costs and margins in marketing. J: D. Black and H. B. Price. Ann Am Acad 117:184-200 Ja '25
Grain markets. Nat City Bank p 61 Ap '25
Hedging—its ways and wherefores. E. Hofsoos. Forbes 15:683-5 Mr 1 '25
Sale of corn in the nineteenth century. S. Dumbell. Econ J 35:141-5 Mr '25
Sale of corn in the nineteenth century; measure versus weight. C. R. Fay. Econ J 34:211-18 Je '24
Truth about grain gambling. J. E. Boyle. Nation's Business 12:13-15+ Je; 44+ Jl '24
Weekly visible grain supplies. See weekly numbers of Bradstreet's
World's production of cereals. Economist 99: 764-5 N 15 '24
See also Wheat; *also* Grain marketing company

Laws and regulations
Grain futures act, 1922. 65p U.S. Dept. of agric., Washington '23
North Dakota grain trading act declared invalid by United States Supreme court. Comm & Fin Chr 120:2632-3 My 23 '25

Statistics
Breadstuffs. Published in weekly numbers of Commercial and financial chronicle
World's food crops since the war. Economist 99:sup47 D 27 '24

Canada
Canadian milling. Survey of Cur Business 45: 27 My '25
See also Winnipeg grain exchange

Great Britain
Government storage of corn as a precaution against food scarcity in war-time. H. M. Thompson. Econ J 35:491-3 S '25

Russia
Russia's exports of grain in 1923-1924. Econ W n s 28:772 N 29 '24

United States
Boom in grain. Moody's Inv Serv 16:390 O 23 '24
Causes of the recent wide fluctuations in grain; preliminary report by Agricultural department. Comm & Fin Chr 120:2631 My 23 '25
Chicago Board of trade plans to prevent wide price swings. F. L. Carey. Comm & Fin Chr 121:155-6, 279 Jl 11-18 '25
Domestic exports of grain and grain products in 1924. Comm & Fin Chr 120:645-6 F 7 '25
Exports of grains and grain products from the United States in 1924-1925. Econ W n s 30: 159 Ag 1 '25
Farmers and the grain trade in the United States: an interpretation of the present pooling movement. J. E. Boyle. Econ J 35:11-25 Mr '25
Federal trade commission's report on grain futures. Comm & Fin Chr 121:1529 S 26 '25
Government and the grain exchanges. J: F. Fennelly. Comm & Fin 14:461-2 Mr 11 '25
Grain exchange can themselves correct violent price fluctuations. W. M. Jardine. Comm & Fin Chr 121:154-5 Jl 11 '25
Grain exchanges are entering on new era of public service. F. L. Carey. Comm & Fin Chr 121:1866-7 O 17 '25
Grain exports during October. Comm & Fin Chr 119:2476 N 29 '24 [continued monthly]
Grain supplies. Bradstreet's 53:177-8 Mr 14 '25
New rules approved by directors of Chicago board of trade adopted—curb on price fluctuations and business conduct committee proposed; commended by Secretary of agriculture Jardine. Comm & Fin Chr 121:1634-5, 1866 O 3, 17 '25
Not to be cured by political or legislative processes; northwestern grain area farm troubles. J: H. Rich. il Am Bankers Assn J 16:407-10 Ja '24
October grain exports explain big gains in value and volume. Bradstreet's 52:765-6 N 29 '24
Prices of grain and grain futures. J: F. Fennelly. Comm & Fin 14:2159 N 4 '25
Proposed new system of clearing on Chicago Board of trade disapproved by directors. Comm & Fin Chr 121:663-4 Ag 8 '25
Prosperity of American grain grower. F. L. Carey. Comm & Fin Chr 120:508-9 Ja 31 '25
Reform in grain speculation. Nat City Bank p 188-9 N '25
Report of grain futures administration in response to Senate resolution calling for information regarding grain speculation in Chicago. Comm & Fin Chr 118:2528-30 My 24 '24
Speculation and the grain futures market. E: J. Dies. Comm & Fin Chr 120:2770-1 My 30 '25
To curb grain fluctuations. Comm & Fin 14: 2006 O 14 '25
Transactions in grain futures during November on Chicago Board of trade and other contract markets. Comm & Fin Chr 119:2701-2 D 13 '24 [continued monthly]

GRANADA
Andalusian gardens and patios. M. Stapley and A. Byne. il plans Arch Rec 55:478-92 My '24
Little tour in Spain; the gardens of Granada. L: La Beaume. il Am Inst Arch J 13:357-67 O '25
See also Alhambra

GRAND Canyon of the Colorado
Birdseye party completes survey of Grand Canyon. Eng N 91:808-11 N 15 '23
DX reception in the Grand Canyon. M. Abel. il Wireless Age 11:17-18+ Ja '24
Running the rapids of the Grand Canyon; an exceptionally hazardous piece of surveying and mapping by Uncle Sam's topographers. G. E. Mitchell. il Sci Am 130:226-7 Ap '24
Surveying the Grand Canyon of the Colorado. C. H. Birdseye. il Eng & Contr (Ry) 62:381-9 Ag 20 '24

GRAND Rapids, Michigan

Rapid transit
Smaller net in Grand Rapids. Elec Ry J 66: 107 Jl 18 '25
United light & railways company arranges for larger capitalization. Elec Ry J 62:1028 D 15 '23

GRAND Rapids vocational school
Worth-while vocational training; features of the educational program of the Grand Rapids vocational school. G: B. Frazee. il diags Mach 30:289-93 D '23

GRANDSTANDS
Grandstand with gunite seat deck. il diag Concrete 23:199 N '23
Les nouvelles tribunes du champ de courses de Bois Vincennes, près Paris. C: Dantin. il diags Génie Civil 85:565-7 D 20 '24
Placing concrete in grandstands and stadia. diags plans Concrete 24:159-63 Ap '24
Portable grandstand of structural steel. il Sci Am 129:401 D '23
Precast risers used in building reinforced-concrete bleachers. D. G. Moon. diag Eng N 95:602 O 8 '25
See also Stadia

GRANITE
Contact effects of gabbro and granite on ore deposition. G. M. Schwartz. Econ Geol 19: 681-4 N '24
Granitgeologie und lagerstätten. H. Cloos. diags Stahl & Eisen 44:89-92 Ja 24 '24
New methods for the study of granitic intrusives. J. F. Kemp. Econ Geol 20:597-601 S '25
Production control in a granite mill. F. A. Westbrook. il Ind Management 69:295 My '25

Specifications
Outline of tenative specification for granite. Am Arch 126:sup16 Jl 2 '24

GRANITE blocks

Specifications
Standard specifications for block for durax granite pavements. Am Soc T M Standards 1923:89-90
Standard specifications for block for recut granite block pavements. Am Soc T M Standards 1923:87-8

GRANITE cutting
Exhaust systems for granite cutters. il Sheet Metal Worker 15:1025-7+; 16:16+ Ja 30-F 13 '25

GRANITE pavements. See Pavements, Granite

GRANITE roads. See Roads, Granite

GRANITEVILLE, South Carolina
Unique southern mill village established in 1845. R: W. Edmonds. Manuf Rec 88:59-62 O 22 '25

GRANOLITHIC floor surfaces. See Floors, Concrete

GRANT, Richard F., 1879-
President of the Chamber of commerce of the United States. J. H. Barnes. por Nation's Business 12:21 Ag '24

GRANT, W. T., company
W. T. Grant company library. G. D. Aikenhead. Special Lib 16:268-9 O '25

GRAPE seed oil
Manufacture of grapestone oil. Chem Age (Lond) 10:442 Ap 26 '24

GRAPE sirup
Removal of sulfurous acid from grape sirup. W. V. Cruess and E. W. Berg. Ind & Eng Chem 17:849-50 Ag '25

GRAPE sugar. See Dextrose

GRAPHIC meters
Graphic meter as a watch dog. J. E. Housley. Ind Eng 81:584+ D '23
High-speed graphic meter for measuring demands. L. D. Snow. il Elec W 82:1277 D 22 '23
Special recording meters write station log. E. W. Cook. il diags J Elec 55:176-7 S 1 '25
Using graphic meters for detecting grounds. R. H. Bahney. il Ind Eng 83:415-17+ S '25

GRAPHIC methods
Application of graphic representation to railway performance. C: Weiss. Ry R 76:1104-6 Je 13 '25
Charts and graphs; an introduction to graphic methods in the control and analysis of statistics. K. G. Karsten. 724p Prentice-Hall '23
Classifying asphalt sands by graphical method. W. C. D. Haarman. Eng N 92: 1090-1 Je 26 '24
Cobweb chart. J. B. Conway. Management & Adm 9:565 Je '25
Cost and selling price graphs. W. E. Hasletine. Textile World 66:3587+ D 20 '24
Design of diagrams for engineering formulas and the theory of nomography. L. I. Hewes and H. L. Seward. 111p McGraw-Hill '23
Dry-as-dust charts vs. the other kind. D. Gridley. Ptr Ink 129:53-4+ D 11 '24
Gaging a complicated situation by a simple graphic chart; measure of flow of work of Onaway paper company. charts Harvard Business R 3:475-80 Jl '25
Graphic analysis for executives. W. A. Savage. 144p Codex book co., inc., 461 8th ave., New York '24
Graphic charting of injector repairs. charts Ry R 75:992-3 D 20 '24
Graphic charts enable mine heads and higher ups to watch every factor in coal costs. W. L. Affelder. Coal Age 28:13-17 Jl 2 '25; Same. Min Cong J 11:388-94 Ag '25
Graphic charts in business. A. C. Haskell. 250p [bibliog. p. 239-46] Codex book co., inc., New York '24
Graphic control in a knitting mill. W. E. Haseltine. charts Textile World 64:3707+ D 22 '23
Graphic control in a small hosiery mill. W. E. Haseltine. Management & Adm 8:161-6 Ag '24
Graphic method of checking car construction. chart Ry Age 76:560 Mr 8 '24
Graphic records. Power 61:668 Ap 28 '25
Graphic statistics in management. W: H: Smith. 360p McGraw-Hill '24
Graphical design of fractionating columns. W. L. McCabe and E. W. Thiele. diags Ind & Eng Chem 17:605-11 Je '25
Graphical method for proportioning broach teeth. C. D. Scrom. diags plan Am Mach 60:334 F 28 '24
Graphical solution of helical gear problems. F. Szabo. diags plan Am Mach 60:391-4 Mr 13 '24
Graphical treatment of circuits containing iron core reactances and capacity. L. Fleischmann. diags Gen Elec R 27:260-2 Ap '24
Graphing the graphites. W. F. Wyman. Ptr Ink 131:10+ Ap 2 '25
Grosszahlforschung. K. Daeves. Stahl & Eisen 45:79-86, 109-14 Ja 15-22 '25
How I learned to find hidden sales facts in graphic charts. H: M. Roberts. Sales Management 6:1129-30+ Je '24
Management charts for central stations. H. A. Snow. il Elec W 84:12-16 Jl 5 '24
Method for the economic design of penstocks. H. L. Doolittle. Mech Eng 46:785-9; Discussion. 789-92 pt 2 N '24
New cobweb chart. W. N. Polakov. Management & Adm 9:277 Mr '25
Plotting of observations on curves and analysis of the curves. G. B. Upton. Sibley J 38: 168-72+ O '24
Practical meaning of curves. Power 61:313 F 24 '25
Preparation and use of velocity profiles. V. I. Smart. Ry R 74:209-15 F 2 '24
Primer of graphics and statistics for teachers. H. Rugg. 142p [bibliog. p. 133-9] Houghton '25
Rational works management in factories. J: A. Davenport and J. I. Emery. Cassier's Ind Management 11:179-81 Ap 3 '24
Say it with curves. B. R. Carney. Gas Age 56: 675-6 N 7 '25
Some graphical methods; geometrical solutions of two alternating-current problems. W: Cramp. diags Elec R (Lond) 97:249-51 Ag 14 '25

See also Business charts; Charts (calculating); Gantt charts; Growth curves; Least squares; Nomography

GRAPHIC statics
Design of a multiple-arch system and permissible simplifications. A. C. Janni. diags Am Soc C E Pro 50:755-94, pl 2-4 Ag '24; Discussion. J. C. Rathbun. 50:1315-18 O '24
Exercises in graphic statics. G: F: Charnock. 3v J. Halden & co., ltd., Manchester, London '24
Graphic analysis of the Geneva stop. C. M. Conradson. diags Mach 32:212-14 N '25
Stresses in continuous beams determined graphically. I. Duberstein. diags Eng N 94: 886-8 My 28 '25

See also Bridges; Girders; Mechanical drawing; Strains and stresses; Strength of materials; Structures, Theory of

GRAPHITE
Activated graphite as a sorbent of oxygen. D. H. Bangham and J: Stafford. Chem Soc J 127:1085-94 My '25
Adsorption of gases by graphitic carbon. H. H. Lowry and S. O. Morgan. diag J Phys Chem 29:1105-15 S '25
American graphite in 1924. Metal Ind 23:238 Je '25
Ceylon plumbago: its uses and qualities. T. G. Hunter. Chem Age (Lond) 11:289-90 S 20 '24
Graphite. Sanitary & Heat Eng 103:152 Mr 6 '25
Graphite. B: L. Miller. Eng & Min J 119:95-6 Ja 17 '25
Graphite a metallic modification of carbon. E. Ryschkewitz. Brass W 20:186 My '24
Le graphite de Madagascar, et son exploitation. map Génie Civil 84:113-14 F 2 '24
Graphite deposits of Ashland, Alabama. J: S. Brown. il diags Econ Geol 20:208-48 My '25
Le graphite et ses emplois dans l'industrie. G. Mesnard. Génie Civil 84:135-8, 161-4 F 9-16 '24
Graphite, ground and refined. Brass W 20:357 O '24
Graphite in Madagascar. Eng & Min J 120: 94 Jl 18 '25
Graphite in 1923. Iron Age 114:447 Ag 21 '24
Graphites for brass-melting crucibles. R. T. Stull and L. E. Geyer. Metal Ind 21:477-8 D '23; Discussion. 22:59 F '24
Madagascar's graphite industry. Eng & Min J 117:530 Mr 29 '24
Marketing of graphite. C: Pettinos. il Eng & Min J 117:1036-8 Je 28 '24
Studies graphite for steel crucibles. R. T. Stull and G. A. Bole. Iron Tr R 74:487-8 F 14 '24; Same cond. Iron Age 112:1664-5 D 20 '23
Temperkohle und eisengraphit als chemisch gleichartige kohlenstofformen. A. Lissner and R. Horny. Stahl & Eisen 45:1297-1301 Jl 30 '25
Ueber den einfluss der temperatur auf die graphitbildung im roh- und gusseisen. E. Piwowarsky. Stahl & Eisen 45:1455-61 Ag 27 '25
Variation in the resistance of carbon and graphite with temperature. B. Noyes, jr. diag Phys R 24:190-9 Ag '24
When is lead lead, and when is it carbon? Sci Am 131:118 Ag '24

See also Pencil leads

GRAPHITIC softening. See Corrosion and anti-corrosives

GRAPHOLOGY
Graphology is hired as a writing paper salesman. Ptr Ink 128:49-50 S 25 '24
Hand-writing on the salesman's application. L. Rice. il Sales Management 7:1861-2+ D '24
What is the letter of application worth? D. A. Laird. Ind Management 67:336-42 Je '24

GRAPTOLITES
New graptolite locality in central Maine. E: H. Perkins. Am J Sci 5th ser 8:223-7 S '24

GRASS Valley, California
Gold ores of Grass Valley, California. E. Howe. Econ Geol 19:595-619, pl 10-11; Discussion. 619-22 N '24

GRASSELLI medal
Grasselli medal award to B. D. Saklatwalla. Ind & Eng Chem 17:96-8 Ja '25
Grasselli medal is given Dr Saklatwalla. F. M. Turner; W: H. Nichols. Oil Paint & Drug Rep 106:20 D 8 '24

GRASSES
Growing grass by artificial light. Illum Engr 17:109 Je '24

See also Hay

GRATES
Design of domestic grates. Engineering 119: 701-2 Je 5 '25
Dump grate units cannot be dislodged. il Power Pl Eng 29:265 F 15 '25
Proper grate design important. diags Power Pl Eng 28:43 Ja 1 '24
Rocking and dumping grates. il diags Power Pl Eng 28:44-7 Ja 1 '24
Specification of grates for boiler furnaces. V. E. Holyoke. Power 62:566 O 13 '25
Traveling grate for return-tubular boilers. il Power 61:391-2 Mr 10 '25

See also Furnaces; Locomotive grates

GRATINGS. See Diffraction gratings

GRATIOLA
Gratiola L. and sophronanthe Benth; a morphological study. T. Holm. diags Am J Sci 5th ser 7:132-40 F '24

GRAVEL
Concrete aggregate produced from local deposit. J. A. Garrod. diags Eng N 91:1012-15 D 20 '23
Crushing and screening plant. il Can Eng 48:369 Mr 31 '25
Gravel production by county. F. Pineo. Eng & Contr (R & S) 61:1218 Je 4 '24
Most sand and gravel used in building—paving second. Eng & Contr (Bldgs) 62:489 Ag 27 '24
Selection of sand and gravel for concrete in the Pittsburgh district. C. M. Reppert and others. Eng Soc W Pa 40:56-92; Discussion. 93-102 Mr '24
Stone and gravel producers present memorial to G. S. Henry, to consider discontinuing the use of any course aggregate other than from plants producing clean, washed, crushed material. Can Eng 48:601-3 Je 23 '25
Use of local gravel pits in Wisconsin during 1923. H. J. Kuelling. il Munic Eng 66:30-3 Ja '24

See also Concrete—Aggregate

Cost
Cost of gravel production with portable scraper. il Eng & Contr (R & S) 62:1250 D 3 '24

Testing
Municipal practice in testing sand and gravel proposed for use in concrete. F. W. Lyon. Eng Soc W Pa 40:88-92 Mr '24

GRAVEL handling
Gravel loading device. E. L. Stump. il diag Eng & Contr (R & S) 64:333 Ag 5 '25

GRAVEL plants
Forreston gravel plant. W. A. Gelbach. W Soc E J 28:507-11 N '23; Same abr. Ry Age 75:569-72 S 29 '23; Same. Eng & Contr (Ry) 60:806-11 O 17 '23; Same. Ry R 73:635-40 N 3 '23
Gravel production on the job. il Eng & Contr (R & S) 62:277-8 Ag 6 '24
Gravel washing plant for ballast and concrete: I.C.R.R. Eng N 92:359 F 28 '24
Large southern gravel plant of the Ball-Benton company. E. R. Bailey. Eng & Contr (Ry) 61:839 Ap 16 '24

GRAVEL roads. See Roads, Gravel

GRAVITATION
Gravitational anisotropy in crystals. P. R. Heyl. il diags U S Bur Stand Sci Pa 482:307-24 '24
Radiant theory of gravitation and inertia. H. P. Gillette. Eng & Contr (W W) 64:561-3 S 9 '25
Some experiments on the proportionality of mass and weight. H. H. Potter. J Fr Inst 197:539-40 Ap '24

See also Einstein theory; Falling bodies; Relativity (physics); Specific gravity

GRAY
Direct grays on cotton fabrics. W. S. Wilkins. Textile Col 47:251 Ap '25
Grey and black dyestuffs; tables. Soc Dyers & Col J 41:135 Ap '25
New science of colors. W. Ostwald. Am Dyestuff Rep 13:609-12 S 22 '24

GREASE. See Lubricating greases; Lubrication and lubricants; Oils and fats

GREASE basins. See Plumbing—Grease basins

GREASE cups

Adapting grease cup to apply pressure lubrication. S. H. Samuels. diags Ind Eng 83:351 Jl '25

Berry automatic grease cup. il Am Mach 63: 170-1 Jl 23 '25

GREASE guns

Bulldozer grease gun. il diag Automotive Ind 52:746 Ap 23 '25

How grease gun saved $3,800 in a year. il diag Bus Transportation 3:265-6 Je '24

GREASE-proof paper. See Paper, Grease-proof

GREAT BRITAIN

See also Aeronautics, Commercial—Great Britain; Geology—Great Britain; Immigration and emigration—Great Britain; Insurance companies—Great Britain; Insurance, Life—Great Britain; Insurance, Marine—Great Britain; Insurance law—Great Britain; Radio broadcasting—Great Britain; Railroads—Great Britain; Retail trade—Great Britain; Street railroads—Great Britain; Strikes and lockouts—Great Britain; Telephone—Great Britain

Air service

Air defence. Engineering 117:243-4 F 22 '24

Air estimates. Engineering 117:342 Mr 14 '24

British air estimates. Aviation 17:776 Jl 21 '24

English air appropriation $101,479,868. il Aviation 18:295 Mr 16 '25

Proposed expenditure of the British government on the air service in 1925-1926. Econ W n s 29:486-7 Ap 4 '25

Royal air force has engineering problems. Aviation 18:670-1 Je 15 '25

Appropriations and expenditures

How social betterment in Great Britain is affecting the Exchequer. Econ W n s 30: 618-19 O 31 '25

Public expenditures on social services in Great Britain. Econ W n s 29:522 Ap 11 '25

Army

Organization of labour in the army in France during the war and its lessons. A. D. Lindsay. Econ J 34:69-82 Mr '24

Commerce

American products that should go well in England this year. J. C. Aspley. map Sales Management 6:1177-8+ pt 2 Je '24

Anglo-German trade. Index p 13-14 My '25

Balance of payments of the United States and of England in 1924. Fed Res Bul 11:406-7 Je '25

Britain's electrical imports and exports; the trend of trade since the war. Elec R (Lond) 95:924-6 D 19 '24

Britain's way of helping her exporters. C. W. Gerson. Ptr Ink 129:33-4+ D 25 '24

British advertising review section of Sales management. Sales Management 8:75-126 sec 2 Ja 10 '25

British colonial motor trade. Engineering 116: 807-8 D 28 '23

British electrical exports in 1921 and 1922. Elec R (Lond) 93:884-5 D 14 '23

British overseas trade in the past quarter. Economist 100:sup27 Ap 25 '25

British sales possibilities. P. S. Salisbury. il Sales Management 6:383-4+ Ja '24

British trade in New Zealand. Elec R (Lond) 94:191 F 1 '24

British trade in 1924. Bradstreet's 53:347 My 23 '25

British trade in South Africa. Elec R (Lond) 94:33 Ja 4 '24

British trade with Argentina. Engineering 119:111 Ja 23 '25

British trade with Italy. Engineering 117:501 Ap 18 '24

Change in Great Britain's foreign trade terms after 1900. F. W. Taussig. Econ J 35:1-10 Mr '25

Commercial history and review of 1924. Economist 100:sup3-77 F 14 '25

Cultivation of foreign trade. Engineering 118: 680-1 N 14 '24

Development of the organisation of Anglo-American trade, 1800-1850. N. S. Buck. 190p [bibliog. p. 178-85] Yale univ. press, New Haven '25

Direction of overseas trade. Economist 99:301-2; 100:290-1 Ag 23 '24, F 14 '25

Economic position of Great Britain. E. Crammond. Engineering 118:617-18 O 31 '24

Electrical imports of the United Kingdom and their origin; statistics for 1921 and 1922 compared. Elec R (Lond) 93:831 N 30 '23

England's trade with Russia. L. J. Lewery. U S Bur For & Dom Com Trade Information Bul 199:1-11 '24

Expansion of British markets. Engineering 119:17-18 Ja 2 '25

Foreign commerce of Great Britain in December and for the calendar year 1923. Econ W n s 27:87 Ja 19 '24

Foreign commerce of Great Britain in December and during 1924. Econ W n s 29:122 Ja 24 '25

Goods across the water: the give and take of mutually beneficial trade between nations. E. Howard. Econ W n s 29:760-2 My 30 '25; Excerpts. Comm & Fin Chr 120: 2751 My 30 '25

Great Britain's balance on all transactions with the rest of the world in 1924. A. R. Marsh. Econ W n s 29:363-4 Mr 14 '25

Great Britain's loud speaker. P. H. Middleton. Am Ind 25:40-4 N '24

Half-year's overseas trade. Economist 101:97-8 Jl 18 '25

Handicap of British trade, with special regard to East Africa. W. H. Hooker. 2d ed. 207p J. Murray, London '24

How British export tin plate. J. Horton. il Iron Tr R 75:538-9 Ag 28 '24

Imports and exports. Roy Statis Soc J 87:160-2 Ja '24

Insurance and the financing of the foreign commerce of Great Britain. Econ W n s 30:204-6 Ag 8 '25

Is our trade going the way of Great Britain's? T. R. Paul. Annalist 25:415-16 Mr 23 '25

Our overseas markets. Economist 99:761-2 N 15 '24

Our overseas trade. E. Stockton. Textile Inst J 15:P505-13; Discussion. P513-14 O '24

Parliament and export trade development; the part that science might play. A. G. Church. Chem Age (Lond) 10:561-2 My 31 '24

Quantity and value of our overseas trade. Economist 99:687-8 N 1 '24

Real ratio of international interchange. D. H. Robertson. Econ J 34:286-91 Je '24

Reparations and inter-allied debt payments in relation to British trade. Econ W n s 29:413-14 Mr 21 '25

Survey of overseas markets. 740p Gt. Brit. Committee on industry and trade, London '25

Survey of overseas markets; abstracts. Economist 101:sup3-7 Jl 25 '25; Elec R (Lond) 97:151-2 Jl 24 '25; Bradstreet's 53:545 Ag 22 '25; Econ W n s 30:226-7 Ag 15 '25

Trade, commerce and shipping of the Empire. C. C. McLeod and A. W. Kirkaldy. (British Empire v. 7) 228p Holt '24

Trade of the United States with the British Empire. D. Miller. Econ W n s 27:43-4 Ja 12 '24

Trends in British commerce and industry. E. M. Miller. Comm M 7:3-14 Je '25; Same. Econ W n s 29:801-3, 835-7 Je 6-13 '25

Volume of Great Britain's foreign commerce in 1924 compared with 1923. Econ W n s 29:447 Mr 28 '25

Volume of Great Britain's imports and exports in 1923 compared with 1913. Econ W n s 27: 519 Ap 12 '24

What is England's industrial future? Am Mach 60:380f Mr 6 '24

Yankee goods; the British barrage. W. C. Hoyt. Am Ind 25:5-7 Ja '25

Year's overseas trade. Economist 98:87-8 Ja 19 '24

GREAT BRITAIN—Commerce—*Continued*

Year's overseas trade. Economist 100:85-6 Ja 17 '25

See also Aeronautics, Commercial—Great Britain; Automobile industry and trade—Great Britain; Petroleum industry—Great Britain; Retail trade—Great Britain; Shipping—Great Britain; Tariff—Great Britain; Wool trade—Great Britain

Commercial policy

Imperial trade. Index p 11-12 Ja '25

Mr Baldwin's fiscal policy. Annalist 22:726 D 3 '23

Protecting the home market. F. C. Chappell. Annalist 22:667-8+ N 19 '23

Commercial treaties

Handbook of commercial treaties, etc., between Great Britain and foreign powers. 3d ed. 968p H. M. Stationery off., London '24

Economic conditions

Actual conditions in Great Britain. Am Mach 62:828c My 21 '25

Banking and industrial conditions in Great Britain. Nat City Bank p 76-7 My '25

British engineers' association report on the condition and prospects of the engineering industry; abstracts. Engineering 119:504-7 Ap 24 '25; Engineer 139:415 Ap 10 '25

British financial conditions in 1923. C: E. Lyon. U S Bur For & Dom Com Trade Information Bul 206:1-21 '24

British industries depressed. S: H. Cross. Am Ind 26:21-2 S '25

British trade outlook better. Am Ind 25: 33-4 Mr '25

Crisis in the engineering industries. Engineer 139:409-10 Ap 10 '25

Les difficultés économiques en Grande-Bretagne. P. Petit. Chimie & Ind 14:312-14 Ag '25

Economic recovery in Great Britain. Comm M 6:25-30 N '24; Same. Econ W n s 28:762-4 N 29 '24

England five years after the peace. E. J. Mehren. Elec W 84:342-3 Ag 16 '24; Same. Eng N 93:256 Ag 14 '24; Same. Eng & Min J 118: 244 Ag 16 '24; Same. Power 60:309 Ag 19 '24

England on the eve of the industrial revolution. L: W. Moffit. 312p [bibliog. p. 301-6] International publishers, New York '25

Great London bank on Great Britain's industrial and commercial outlook. Econ W n s 30:438-41 S 26 '25

Industrial conditions in Great Britain. Nat City Bank p 124-6 Ag '25

Labor influence on British industry and finance. F. C. Chappell. Annalist 23:158+ Ja 28 '24

Opportunities for American advertisers in the British markets in 1924. J. True. Ptr Ink 126:17-20+ Ja 10 '24

Politics and industry in England today. F. C. Chappell. Annalist 23:113+ Ja 14 '24

Present distribution of British wealth in respect of the forms of property held. C: E. Lyon. Econ W n s 27:10-11 Ja 5 '24

Questions of the hour. A. Milner. 173p Doran '23; Review. Comm & Fin Chr 120:631-2 F 7 '25

Reparations and the British engineering industry. Engineering 118:695, 725, 757 N 21-D 5 '24

Some helpful factors in the British business situation. Econ W n s 30:549-50 O 17 '25

Some observations on the economic and financial situation of Great Britain at the beginning of 1924. F: C. Goodenough. Econ W n s 27:292-5 Mr 1 '24

Steady recovery of Britain's prosperity. F. C. Chappell. Annalist 23:457+ Ap 14 '24

Then and now; economic problems after the war a hundred years ago. L. I. Fisher. 117p [bibliog. p. 113-14] Oxford '25

What is the status of industrial England today?—a first-hand estimate. S: Crowther. System 45:310-13 Mr '24

What's ahead for the pound sterling? F. C. McBride. Sales Management 6:896-7+ pt 2 Ap '24

See also Banks and banking—Great Britain; Building trades—Great Britain; Co-operation—Great Britain; Debts, Public—Great Britain; Finance—Great Britain; Housing—Great Britain; Labor and laboring classes—Great Britain; Money—Great Britain; Prices—Great Britain; Strikes and lockouts—Great Britain; Taxation—Great Britain; Trade unions—Great Britain; Unemployment—Great Britain; Wages—Great Britain

Foreign relations

Britain's foreign policy. J. B. Dunning. Comm & Fin 14:212-13 Ja 28 '25

Mexico

Severing of diplomatic relations between Great Britain and Mexico. Comm & Fin Chr 119:2246-7 N 15 '24

Russia

Anglo-Russian treaties. Index p 10-11 O '24

Anglo-Soviet conferences. Index p 11-12 Jl '24

Signing of Anglo-Soviet treaty in London—proposed loan. Comm & Fin Chr 119:899-900 Ag 23 '24

Government publications

See British library of information

Industries and resources

British industry moving toward simplification. J. F. Whiteford. Ind Management 69:193-6 Ap '25

Business man's survey of the Empire's resources. Review. Engineering 117:706-7 My 30 '24

Resources of the Empire and their development. E. Lewin. 364p Holt '24

Strategic centers of Britain and how to reach them. Sales Management 8:91-2+ sec 2 Ja 10 '25

See also Automobile industry and trade—Great Britain; Chemical industries—Great Britain; Coal supply—Great Britain; Coal trade—Great Britain; Cotton trade—Great Britain; Dye industry—Great Britain; Electric industries—Great Britain; Electric plants (central stations)—Great Britain; Electricity supply—Great Britain; Engineering—Great Britain; Gas industry—Great Britain; Iron industry and trade—Great Britain; Machine tool industry—Great Britain; Mines and mineral resources—Great Britain; Mining industry and finance—Great Britain; Oil industries—Great Britain; Oil shales—Great Britain; Petroleum—Great Britain; Rubber industry and trade—Great Britain; Shipbuilding—Great Britain; Shoe industry and trade—Great Britain; Silk manufacture and trade—Great Britain; Steel industry and trade—Great Britain; Steel works—Great Britain; Sugar industry and trade—Great Britain; Textile industry—Great Britain; Tobacco industry and trade—Great Britain; Water power—Great Britain; Wool trade—Great Britain

National physical laboratory, Teddington

Annual report, 1924. Elec R (Lond) 96:650-1, 711-12, 97:34-5 Ap 24-My 1, Jl 3 '25; Electrician 94:453+ Ap 17 '25; Engineering 119: 808-9; 120:18-19, 64-6, 112-13, 131-2 Je 26-Jl 3, 17-31 '25

British Bureau of standards. Sci Am 131:34 Jl '24

Metallurgical research in England. W. Rosenhain. il plans Iron Age 115:975-8+, 1129-31 Ap 2, 16 '25

Le National physical laboratory; ou laboratoire national britannique de Teddington, près de Londres. H: Stroh. il plan Génie Civil 85:413-19 N 8 '24

Report, Oct. 1922, to Dec. 1923. Engineering 117:823-4; 118:5-6, 100-1 Je 27-Jl 4, 18 '24; Elec R (Lond) 95:55-6, 341-3 Jl 11, Ag 29 '24; Electrician 93:68-9 Jl 18 '24; Gas J (Lond) 167:78 Jl 2 '24

GREAT BRITAIN—*Continued*

Navy

Another side of the 5-5-3 argument. D. W. Knox. il diag Sci Am 133:100-1 Ag '25
Cruiser programme. Engineer 137:229-30 F 29 '24
Cruiser programme. Engineering 120:232-3 Ag 21 '25
Naval programme. Engineer 140:117-18 Jl 31 '25
Navy estimates. Engineer 137:311-12 Mr 21 '24
Navy estimates. Engineer 139:329-30 Mr 20 '25
Navy estimates. Engineering 117:375-6 Mr 21 '24
Singapore base and practical naval strategy. Engineering 119:293-4 Mr 6 '25

See also Warships—Great Britain

Ordnance survey

Work of the ordnance survey. E. M. Jack and others. Engineering 120:437-8 O 9 '25

Parliament

Britain uses her business brains; almost every line of industry represented in Parliament. P. W. Wilson. Nation's Business 12:16-17 N '24

Politics and government

Labor influence on British industry and finance. F. C. Chappell. Annalist 23:158+ Ja 28 '24
Politics and industry in England today. F. C. Chappell. Annalist 23:113+ Ja 14 '24
Stanley Baldwin, former British prime minister, selects conservative cabinet. Comm & Fin Chr 119:2138-9 N 8 '24
When labor plays politics. E: A. Bradford. Annalist 23:527-8 My 5 '24

See also Labor party (Great Britain)

Population

Births and population in Great Britain. A. L. Bowley. Econ J 34:188-92 Je '24

Social conditions

Main currents of social and industrial change, 1870-1924. T: G: Williams. 314p Pitman '25

Statistics

Bibliography

Guide to current official statistics. Gt. Brit. Permanent consultative committee on official statistics, London '23

Statistics, Vital

Nation's health. Economist 99:300-1 Ag 23 '24; Same. Econ W n s 28:421-2 S 20 '24
Vital statistics of Sweden and England and Wales; an essay in international comparison. M. Greenwood. Roy Statis Soc J 87: 493-531; Discussion. 532-43 Jl '24

Trade boards

Work of British trade boards. Monthly Labor R 18:797-9 Ap '24

GREAT Lakes

Canada opposes further lake diversion. Eng N 92:823 My 8 '24
Chicago's diversion of water from the Great Lakes; a history of one of the noted cases of water diversion with state, national and international complications. Eng N 92:28-31 Ja 3 '24
Chief of engineers' views on lake harbor deepening costs. H. Taylor. Eng N 93:259 Ag 14 '24
Great Lakes engineering problems. H. J. Lamb. il chart maps Can Eng 47:289-92, 315-18 S 2-9 '24
Lakes pay U.S. large dividends; freight carrying cost on waterways. L. C. Sabin. il Marine R 55:1-6 Ja '25
Plan to restore lake levels. C. L. Campbell. map Can Eng 49:438 O 6 '25; Discussion. 49:465, 525 O 13, N 3 '25
Run from Duluth to Caribbean; two ships of unusual design. il diags maps plans Marine R 54:1-11 Ja '24
St Lawrence deep waterway project. H. De B. Parsons. Can Eng 47:519-21 N 18 '24
St Lawrence deep waterway to the sea. F. C. Shenehon. diags map plan Can Eng 47:481-7, 501-6 N 4-11 '24; Discussion. H. C. Sadler. 47:477-8 N 4 '24
St Lawrence waterway to the sea. L. C. Sabin. Can Eng 47:603-6 D 16 '24
Suggests President call Great Lakes conservation conference. G: W. Fuller. Eng N 94:353 F 26 '25
Water levels of Great Lakes. Can Eng 49: 340, 503, 582, 639 S 22, O 27, N 24, D 15 '25
When iron floats—plenty of water is needed. Supreme court's decision pertaining to the Chicago drainage canal effect on the iron and steel industry. A. J. Hain. il Iron Tr R 76:230-2 Ja 15 '25
Withdrawal of water from Lake Michigan by the sanitary district of Chicago, and the consequent lake lowering controversy. M. Knowles. il maps Eng Soc W Pa 41:221-50; Discussion. 251-8 Jl '25

See also Lake carriers' association

GREAT Northern iron ore properties

Annual report, 18th, for year ended Dec. 31 1924. Comm & Fin Chr 121:323-4 Jl 18 '25

GREAT Northern railway

Annual report, 35th, 1923. Comm & Fin Chr 119:467-72 Jl 26 '24; Same cond. Ry Age 77: 392-4 Ag 30 '24
Annual report, 36th, 1924. Ry Age 79:292-5 Ag 8 '25; Same abr. Comm & Fin Chr 121: 600 Ag 1 '25
Great Northern compared with other roads. map Ry Age 79:275-8 Ag 8 '25
Great Northern continues to evidence promise. map Ry Age 77:368-70 Ag 30 '24
Great Northern train control petition denied. Ry Age 79:805-8 O 31 '25
Stevens monument dedicated by historical expedition. E: F. Flynn. il Eng N 95:428-30 S 10 '25

GREAT Salt Lake

Level of Great Salt Lake is rising, why? Sci Am 133:123 Ag '25

GREAT Salt Lake desert

Great Salt Lake desert survey to be undertaken. Eng N 95:93 Jl 16 '25

GREAT western power company of California

Annual report, 1923. Comm & Fin Chr 119:341-3 Jl 19 '24

GREECE

See also Banks and banking—Greece; Bonds, Government—Greece; Debts, Public—Greece; Dye industry—Greece; Finance—Greece

Commerce

Foreign trade of Greece. M. M. Dorizas. 120p [bibliog. p. 113-20] Univ. of Pennsylvania, Philadelphia '25

Economic conditions

Economic situation in Greece. Comm & Fin Chr 121:145 Jl 11 '25; Same. Econ W n s 30:83 Jl 18 '25
Financial and economic situation in Greece. Economist 99:834-6 N 22 '24
Financial outlook of Greece. G: Copinas. Econ W n s 30:522-3 O 10 '25

GREECE, Ancient

Uses of metals in early times. C. A. Grabill. Eng & Min J 119:247-50 F 7 '25

GREEK architecture. See Architecture, Greek

GREEK vases. See Vases, Greek

GREEN, William

Appreciation. C: H. Cochrane. por Inland Ptr 75:78 Ap '25

GREEN

Another water-soluble vat dye; soledon jade green of the anthraquinone series. C: E. Mullin. Textile Col 47:568-71 S '25
Bright green on cotton fast to light. Color Tr J 15:14-15 Jl '24
Bright green with dinitrosoresorcinol. Am Dyestuff Rep 14:608 S 7 '25

GREEN—*Continued*
Developments in green vat dyes. L. J. Hooley. Color Tr J 15:104; 16:5-6 O '24, Ja '25
Green dyestuffs; tables. Soc Dyers & Col J 41:131-2 Ap '25
Green vat dyestuffs from dibenzanthrone. Color Tr J 16:40 F '25
New green vat dye from dibenzanthrone. Chemicals (Dyestuffs sec) 16:158-9 My 25 '25
Soledon jade green. Am Dyestuff Rep 14: 246-7 Ap 20 '25

See also Chrome green; Methyl green

GREENE, Nathaniel, 1742-1786
Famous machinists of history. H. H. Manchester. Am Mach 61:370 S 4 '24

GREENEVILLE, Tennessee
Greeneville, Tennessee. il Manuf Rec 86: 483 pt 2 D 11 '24

GREENHOUSES

Heating and ventilation

Greenhouse heating. E. W. Riesbeck. il diags Dom Eng 109:25+ O 18 '24
Hot-water for greenhouse heating. F. J. Elder. Am Soc Heat & V E J 30:619-26 S '24
New chart for figuring greenhouse heating. N. T. Bourke. chart Heat & Ven 22:49-53 My '25

GREENLAND

See also Geology—Greenland; Radio stations—Greenland

GREENSAND. See Glauconite

GREENSBORO, North Carolina
Engineering in the small city. Eng N 95:60-1 Jl 9 '25

GREENVILLE, South Carolina
$5,000,000 construction work in Greenville. L. M. Glenn. il Manuf Rec 88:92-4 S 3 '25
Greenville welcomes visitors to sixth Southern textile exposition. W. P. Conyers. Textile World 66:2144 O 18 '24

GREENWAY, John Campbell, 1872-
Prominent mining engineers. por Eng & Min J 119:716 My 2 '25

GRENOBLE exhibition
L'exposition internationale de la houille blanche et du tourisme (Grenoble, mai-octobre 1925). P. Carle. il plans Génie Civil 87:29-33 Jl 11 '25
Grenoble exhibition. Engineer 139:690-1 Je 19 '25; Engineering 119:739 Je 12 '25; Elec R (Lond) 97:368-70 S 4 '25
Grenoble white coal exposition uses concrete construction. il Eng N 95:583 O 8 '25

GRESHAM, Thomas
Sir Thomas Gresham and the foreign exchanges. H. Buckley. Econ J 34:589-601 D '24

GREY. See Gray

GRIGNARD reagent
Action of phenylmagnesium bromide on organic acids. F. N. Peters, jr. and others. Am Chem Soc J 47:449-54 F '25
Application of the Grignard reaction to some acetylenic compounds. F. J. Wilson and W: M. Hyslop. Chem Soc J 123:2612-18; 125: 1556-8 O '23, Ag '24
Grignard synthesis of aldehydes. C: E. Wood and M. A. Comley. Soc Chem Ind J 42:429-32 N 9 '23
Luminescence of Grignard compounds: spectra and brightness. R. T. Dufford, D. Nightingale and S. Calvert. Am Chem Soc J 47:95-102 Ja '25
Mechanism of reduction of azobenzene by organomagnesium halides. H: Gilman and R. M. Pickens. Am Chem Soc J 47:2406-16 S '25
Mechanism of the reaction of isocyanates and isothiocyanates with the Grignard reagent. H: Gilman and C. R. Kinney. Am Chem Soc J 46:493-7 F '24
Preparation of hydrocarbons by the reaction between alkyl sulfonates and organomagnesium halides. H: Gilman and N. J. Beaber. Am Chem Soc J 47:518-25 F '25
Qualitative color test for the Grignard reagent. H: Gilman and F. Schulze. Am Chem Soc J 47:2002-5 Jl '25
Quantitative study of the reaction between disubstituted acetylenic hydrocarbons and the Grignard reagent. H: Gilman and J: B. Shumaker. Am Chem Soc J 47:514-15 F '25
Reaction between aryl sulfonates and organomagnesium halides. H: Gilman, N. J. Beaber and C: H. Myers. Am Chem Soc J 47:2047-52 Jl '25
Reaction between organic peroxides and organomagnesium halides. H: Gilman and C. C. E. Adams. Am Chem Soc J 47:2816-21 N '25
Reaction between organomagnesium halides and cupric chloride. H: Gilman and H. H. Parker. Am Chem Soc J 46:2823-7 D '24

GRILLES
Construction of metal grating for floor openings. D. A. Hampson. diag Ind Eng 83: 546 N '25

GRINDING
Action of grinding wheel on some metals. Brass W 19:372 N '23
Advanced centerless grinding operations. il Mach 31:252 N '24
Arc grinding in the lathe. R. A. Black. diags Mach 31:207-8 N '24
Centerless method of grinding. G: W. Binns. il diag Am Mach 61:455-6 S 18 '24
Cleaning small malleable castings. F. B. Jacobs. il Foundry 53:239-41 Mr 15 '25
Computing offset for relief grinding. C. D. Scrom. diags Am Mach 59:709 N 8 '23; Discussion. W. R. Needham. 60:376-7 Mr 6 '24
Ex-cell-O high-speed grinding spindle. il Am Mach 62:753 My 7 '25; Iron Age 115:1262 Ap 30 '25; Mach 31:741-2 My '25
Face grinding from the rough as a time saver. E. Sheldon. il Am Mach 61:43-7 Jl 10 '24
Finishing steel track equipment. F. B. Jacobs. il Iron Tr R 74:1701-2 Je 26 '24; Same. Foundry 52:937 D 1 '24
From axioms to grinds; grinding the chamfer and clearance on chasers of self-opening dieheads. C. W. Bettcher. diags Am Mach 63:229-31 Ag 6 '25; Discussion. R. E. Flanders. 63:700 O 29 '25
Grinder makes practical the welding of locomotive tires. R. R. Webster. il Coal Age 27:766 My 21 '25
Grinding a square shaft to close dimension. M. Wright. il Am Mach 60:185 Ja 31 '24
Grinding and polishing fixture. A. B. Casper. diag Mach 31:643 Ap '25
Grinding Chrysler motor parts. Am Mach 61: 808 N 20 '24
Grinding face milling cutters. il diags Mach 31:700-1 My '25
Grinding fixtures for magnetic chucks. S. W. Brown. diags Mach 31:875 Jl '25
Grinding heart-shaped cams. C. L. Hall. diag Am Mach 63:399 S 3 '25
Grinding in the railroad shops. H. Campbell. il Am Mach 59:861-4 D 13 '23; Discussion. 60:60, 402 Ja 10, Mr 13 '24
Grinding limits for cylindrical parts; data sheet. Mach 31:776a Je '25
Grinding practice. H. A. Dean. il diags Automobile Eng 15:73-7 Mr '25
Grinding practice in railroad shops. M. B. Richardson. il Ry Mech Eng 98:344-8 Je '24
Grinding small marine motor cylinders. R. Mawson. il Am Mach 59:851-2 D 6 '23
Grinding springs and washers. il Mach 31:58 S '24
Grinding the ends of coil springs. il Mach 30: 705 My '24
Grinding triple valve seats. il diag Elec Ry J 65:515 Mr 28 '25
How to estimate machine shop costs. A. A. Dowd. diags Am Mach 61:997-1000 D 25 '24
Infeed and through-feed centerless grinding. il Am Mach 62:658 Ap 23 '25
Magnetic chuck aids output. F. B. Jacobs. il Iron Tr R 76:289-91 Ja 22 '25
Odd jobs in a grinding shop. E. Sheldon. il Am Mach 63:421-4, 659-61 S 10, O 22 '25
Plow grinding practice novel. F. B. Jacobs. il Foundry 51:956-9 D 1 '23

GRINDING—*Continued*
Production grinding gains favor. O. A. Knight. Iron Tr R 73:1367-8+ N 15 '23
Rejuvenating worn cutting tools. il Am Mach 62:849-50 My 28 '25
Some causes of cracks and soft spots in hardened work. J. C. Spence. Am Mach 61:433-4 S 11 '24
Startling results in surface grinding. F. H. Colvin. il Am Mach 62:911-14 Je 11 '25
Theory and practice of centerless grinding. W. J. Peets. il diags Mech Eng 47:695-700 S '25; Same cond. Mach 32:57-9 S '25; Abstract. Am Mach 63:437-8 S 10 '25; Discussion. W. W. Seabury and others. Mech Eng 47:943-6 N '25; Excerpts. Am Mach 63:509-11 S 24 '25
What modern machine tools are doing; Norton grinding machines. diags Am Mach 61: 618-19 O 16 '24
Work speeds for cylindrical grinding. C. A. Carlson. Mach 31:705 My '25
Worm grinding in the lathe. J. W. Armour. il diag Mach 30:859-60 Jl '24

See also Abrasives; Grinding machines; Grindstones; Lubrication and lubricants (cutting and grinding); Machine shop practice; Polishing

Safety devices and measures

Dust and grinding of metals. W. H. Gordon. Safety Eng 47:228-30, 295-7 My-Je '24

GRINDING (ores, etc). See Crushing machinery

GRINDING machines
Arter automatic cylindrical grinding machine. il Am Mach 61:709-10 O 30 '24; Automotive Ind 51:973-4 D 4 '24
Arter automatic tappet-grinding machine. il Am Mach 62:671-2 Ap 23 '25
Automatic disk grinding. il Mach 31:621-4 Ap '25
Badger large disk grinder. il Iron Age 116:14-15 Jl 2 '25
Besly coil spring grinding machine. il Am Mach 60:151 Ja 24 '24
Besly horizontal disk grinder equipped for wet grinding. il Iron Age 114:1208 N 6 '24
Besly special double-spindle ring-wheel grinder. il Am Mach 61:208-9 Jl 31 '24; Iron Age 114:253 Jl 31 '24; Mach 30:983 Ag '24
Besly spiral disk and disk grinder. il Mach 31:322-3 D '24
Browne & Sharpe no. 2-I universal grinding machine. il Am Mach 60:487-8 Mr 27 '24; Iron Age 113:944-5 Mr 27 '24; Ry Mech Eng 98:310-11 My '24
Bryant no. 3 semi-automatic hole grinder. il Am Mach 63:370-1 Ag 27 '25; Mach 32:68-9 S '25
Centerless grinders now used to turn taper shanks and ball ends. W. L. Carver. il Automotive Ind 52:821-3 My 7 '25
Centerless grinding. W. Ogilvie. il diags Automobile Eng 15:348-51 O '25
Centerless method of grinding. G. W. Binns. il Ry Mech Eng 98:758-9 D '24; Same cond. Iron Tr R 75:946-7 O 9 '24
Churchill cam grinding machine. il Automobile Eng 15:340 O '25
Cincinnati new self-contained grinding machines. il Mach 31:430-2 F '25
Cincinnati plunge-cut grinder is driven by three built-in electric motors. W. L. Carver. il Automotive Ind 51:816-17 N 6 '24
Cincinnati plunge-cut grinding machine. il Am Mach 61:706-7 O 30 '24; Mach 31:229-30 N '24; Iron Age 114:1199 N 6 '24
Cincinnati saddle-type plain cylindrical grinder. F. H. Colvin. il diags Am Mach 62:151-4 Ja 22 '25
Cleveland pneumatic grinding machine. il Iron Age 113:1568 My 29 '24
Detroit centerless grinder improved type no. 4C. il diag Am Mach 62:479-80 Mr 19 '25; Automotive Ind 52:500-1 Mr 12 '25; Mach 31:657-8 Ap '25
DG internal grinder for railroad shop work. il Iron Age 115:475 F 12 '25
Efficient fixture for internal grinding. J. Williams. il Am Mach 60:894 Je 12 '24
18-in. knee-type ring wheel grinder. il Iron Age 112:1454 N 29 '23
English development of railroad grinding equipment. W. F. Sandmann. il Am Mach 61:601-2 O 16 '24
Excelsior grinding and polishing machine. il Am Mach 62:1015 Je 25 '25; Iron Age 115: 1781 Je 18 '25
Fellows automatic gear grinder. il Mach 30: 395-6 Ja '24
Fitting spindle bearings on the Heim centerless grinder. il Am Mach 62:245-7 F 5 '25
Gallmeyer & Livingston universal tool room grinder. il Iron Age 113:1794 Je 19 '24
Gardner combination surface and disk grinder with hydraulic table feed. il Iron Age 115: 123 Ja 8 '25
Gardner double disk grinder. il Iron Age 113: 1021 Ap 3 '24
Gardner oilgear-feed double-spindle disk grinder. il Am Mach 63:415 S 3 '25
Gardner 10-inch double-spindle disk grinder. il Mach 32:166 O '25; Am Mach 63:564 O 1 '25; Iron Age 116:686 S 10 '25
Gardner vertical spindle disk grinder 72-in., no. 79. il Am Mach 63:718 O 29 '25
Giddings & Lewis hand-operated internal grinder for tool room work. il Iron Age 113: 1582g My 29 '24; Mach 30:814 Je '24
Gisholt internal and link grinding machine. il Ry Mech Eng 98:763-4 D '24
Graham pulley grinding machine. il diags Iron Age 112:1661 D 20 '23; Mach 30:396-8 Ja '24
Grinding fixture for staybolt taps and taper bridge reamers. W. M. Hayes. diags plan Mach 30:551-2 Mr '24; Discussion. C. M. Pond. 30:796 Je '24
Grinding fixture with tilting work-holder. R. P. Schmidtchen. diags Mach 31:299-300 D '24
Grinding machines and abrasive wheels. E. F. Creager. diag Am Mach 62:461-2 Mr 19 '25
Grinding machines at the Olympia machine tool exhibition. il diags Engineering 118: 318-19, 401-5, pl 45-6 S 5, 19 '24; Engineer 138:sup ix-x S 12 '24; Mech Eng 46:900-1 D '24
Grinding practice. H. A. Dean. il diags Automobile Eng 15:73-7 Mr '25
Grinding slid flat cast iron wheels. W. M. Allison. Ry R 77:494 S 26 '25; Same. Ry Mech Eng 99:710 N '25
Grinding spindles and bearings. diags Automobile Eng 15:307-8 S '25
Heald automatic internal grinding machine. il Am Mach 63:410-14 S 3 '25; Automotive Ind 53:378-9 S 3 '25; Mach 32:66-8 S '25; Iron Age 116:615-16 S 3 '25; Automobile Eng 15:310-11 S '25
Heald semi-automatic internal grinding machine. il Am Mach 63:33-5 Jl 2 '25; Iron Age 116:16 Jl 2 '25; Mach 31:909-10 Jl '25
High production capacity a feature of new Heald internal grinder. P. M. Heldt. il Automotive Ind 53:86-7 Jl 16 '25
Hydroil internal grinder has hydraulic drive and feed. W. L. Carver. il Automotive Ind 51:246-7 Jl 31 '24
Improved heavy-duty face grinder made by Bridgeport safety emery wheel co. il Iron Age 114:922 O 9 '24
Landis brake drum grinding machines. il Am Mach 62:481-2 Mr 19 '25; Automotive Ind 52:551 Mr 19 '25; Iron Age 115:837 Mr 19 '25
Landis hydraulic traverse grinding machine. il Am Mach 60:675-6 My 1 '24; Automotive Ind 50:1017 My 8 '24; Iron Age 113:1285 My 1 '24
Landis roll-grinding machine, 50-inch. il Am Mach 63:209-10 Jl 30 '25; Iron Age 116:279-80 Jl 30 '25; Mach 31:1001-2 Ag '25
Meldrums large surface grinding machine. il diag Engineer 138:523 N 7 '24
Micro double-headstock aligning grinder, model E. G. il Am Mach 63:168 Jl 23 '25
Micro internal grinder for railroad shops. il Ry Mech Eng 99:249 Ap '25; Am Mach 62:941 Je 11 '25

GRINDING machines—*Continued*
Niles-Bement-Pond combined lathe and grinder, 113-in. il Am Mach 62:859-60 My 28 '25; Iron Age 115:1559-60 My 28 '25; Mach 31:826-7 Je '25
Norton semi-automatic grinding machine type B. il Am Mach 63:519-20 S 24 '25; Automotive Ind 53:591-2 O 1 '25; Iron Age 116: 891 O 1 '25; Mach 32:151-2 O '25
Oliver drill point thinner. il diag Am Mach 62:293 F 12 '25
Omco internal grinding machine 12x10-inch. il Am Mach 63:794-6 N 12 '25
Osterholm no. 3 automatic grinder. il Am Mach 61:207-8 Jl 31 '24; Automotive Ind 51: 250-1 Jl 31 '24; Iron Age 114:319-20 Ag 7 '24; Mach 30:985-6 Ag '24
Pioneer surface grinding machine. H: Densmore. il Am Mach 62:546 Ap 2 '25
Portable grinding machine for locomotive piston valve liners manufactured by Churchill machine tool co., ltd., Manchester. il Ry R 74:856-7 My 10 '24
Pratt & Whitney co. improves rotary surface grinder. il Iron Age 114:1410 N 27 '24
Recent introductions in grinding equipment. il Automobile Eng 15:230-1 Jl '25
Rotomatic grinder for rapidly removing burrs from castings. il Iron Age 115:1712 Je 11 '25
Spherical grinding device. A. L. Fisher. il diag Am Mach 60:27 Ja 3 '24
Swing-frame, portable and hand grinding machines. il Am Mach 61:645-8 O 23 '24
Table raising and lowering mechanism a feature of new disk grinders. il diag Iron Age 113:1280 My 1 '24
"Tero" hand-operated internal grinding machine. il Am Mach 60:863-4 Je 5 '24
Tool and cutter grinding. H. Bentley. Cassier's Ind Management 12:457-8 S '25
Union twist drill-point grinding machine. il Am Mach 63:75 Jl 9 '25
Universal-werkzeug- und rundschleifmaschine. M. Coenen. diags Zeit Ver Deutsch Ing 69:439-40, pl 3 Ap 4 '25
Use of disk grinders. C. C. Hermann. Am Mach 63:308 Ag 20 '25
Use of fixtures in disk-grinding. H. Campbell. il Am Mach 60:759-61 My 22 '24
Van Norman turning and grinding machine no. 96. il Am Mach 63:37-8 Jl 2 '25; Automotive Ind 53:217 Ag 6 '25
Walker single-stroke vertical rotary surface grinding machine. il Am Mach 59:815-16 N 29 '23; Iron Age 112:1455-6 N 29 '23; Mach 30:309-10 D '23; Ry Mech Eng 98:120-1 F '24
Warner & Swasey Roto portable pneumatic grinders. il diags Mach 31:497 F '25; Automotive Ind 52:269 F 12 '25
Why work in a centerless grinder revolves with the regulating wheel P. M. Heldt. Automotive Ind 53:574 O 1 '25
Wide range of sizes are handled on new surface grinder developed by the Blanchard co. il Automotive Ind 53:588-9 O 1 '25
Wilmarth & Morman motor-driven no. 1 universal tool and cutter grinder. il Am Mach 60:561 Ap 10 '24
Wilmarth & Morman super surface grinder, no. 78. il Am Mach 63:793-4 N 12 '25
Work drivers for the grinding machine. H. J. G. Kopsch. diags Am Mach 62:27-8 Ja 1 '25; Discussion. A. T. Gregory. 62:667 Ap 23 '25

See also Grinding wheels; Polishing machines; Sanding machines

Safety devices

Wheel guard for Walker grinder. il Mach 30: 644 Ap '24

GRINDING wheel manufacturers' association
Quarterly meeting, 44th, New York city, Mar. 13. Am Mach 62:482b Mr 19 '25

GRINDING wheels
Device for dressing grinding wheels to determine angles. H. Mayer. diag Am Mach 60: 413 Mr 13 '24
Diamonds for truing abrasive wheels. E. F. Creager. Am Mach 62:394 Mr 5 '25
How to select grinding and polishing wheels and use them without risk. G. Radebaugh. il Coal Age 25:739-40 My 15 '24
How to use grinding and polishing wheels. G. Radebaugh. il Coal Age 26:23-4 Jl 3 '24
Norton grinding wheel stand has motor in base. il Automotive Ind 52:778 Ap 30 '25
Reclaiming scrapped grinding wheels. F. W. Brown. il Iron Tr R 75:1499-1500 D 4 '24
Selecting wheel for grinding holes in bushings. C. Wheeler. diags Mach 31:887 Jl '25
Sizing indicator for Bryant chucking grinder. il Am Mach 61:671 O 23 '24
Truing grinding wheels with diamonds. A. Mumper. diags plans Mach 31:473-4 F '25

See also Grinding machines

Manufacture

How grinding wheels are made. Soc Auto Eng J 15:482-3 D '24
Making vitrified abrasive wheels. il flow sheet Chem & Met Eng 31:531-3 O 6 '24
Manufacture of rubber-bond grinding wheels. E. Sheldon. il Am Mach 60:641-4, 777-80 My 1, 22 '24
Vitrified abrasive wheels. Brass W 21:326 S '25

Safety devices and measures

Grinding wheels. J: M. Sandel. Nat Safety N 10:46 S '24
Safety code for the use, care, and protection of abrasive wheels. U S Bur Labor Statistics Bul 338:1-20 '23

Standards

Simplification of grinding wheels. il Iron Age 116:1183-4 O 29 '25
Standard foundry grinding wheels. Foundry 53:646a, 690a Ag 15-S 1 '25
Standard grinding wheels; data sheets. Mach 31:948a; 32:16a, 102a Ag-O '25
Standardization of grinding wheel shapes and sizes. diags Am Mach 62:689-93 Ap 30 '25; Automotive Ind 52:790-1 Ap 30 '25; Iron Age 115:1281-2 Ap 30 '25; Iron Tr R 76:1118-19 Ap 30 '25; Foundry 53:373-4 My 1 '25; Mach 31: 731 My '25

GRINDSTONES
Treatment of grindstones. W: A. Munro. Paper 33:3-5+ D 13 '23

GRIZZLIES
Ross automatic drop-bar feeder grizzley. diag Ind Management (Lond) 10:279-80 N 15 '23
Self-cleaning grizzly. I. J. Simcox and H. L. Humes. il diags Eng & Min J 117:307 F 16 '24

GROCERY trade
Bad debt losses decrease among wholesale grocers. F. A. Fall. Credit M 27:7 Je '25
Big advertisers review distribution developments. Ptr Ink 129:103-4+ N 27 '24
Broker's recommendation to makers of advertised products. C: P. Whiteman. Ptr Ink 129:131-2+ N 27 '24
Cash-and-carry hits the wholesale field. Ptr Ink 127:10+ My 22 '24
Good movement of groceries. Dun's R 32:7+ Jl 19 '24
Grocers turn to telephone selling in effort to cut costs. il Sales Management 8:529-30+ Ap 4 '25
Grocery on wheels; a self-service, motorized store. il Sci Am 130:318 My '24
Have chain groceries reached the saturation point? Comm & Fin 14:1361-3 Jl 15 '25
Here is one retailer who likes chain competition. Ptr Ink 130:108+ F 26 '25
How can we help these retailers? modern new-line merchandisers. A. H. Deute. Ptr Ink 132:129-30+ Ag 13 '25
How co-operation works in the grocery business. H. W. Hess. Ann Am Acad 115:236-40 S '24
How one grocery wholesaler cooperates with retailers. il Am Exporter 94:37+ Ap '24
Importance of the grocer. Comm & Fin 14: 1407 Jl 22 '25
Independent grocers not ready to surrender to chains. Ptr Ink 130:125-6 F 5 '25
Is it right for a jobber to pay a bonus on long-profit lines? L. W. Giellerup. Sales Management 7:1865-6 D '24

GROCERY trade—*Continued*
Is the druggist losing business to the grocer? J. Calvin. Ptr Ink 133:113-14+ O 22 '25
Is this the way to get wholesalers' cooperation? Ptr Ink 132:81-4 Jl 16 '25
More discoveries about wholesale grocers. Ptr Ink 132:10+ Ag 20 '25
Much larger distribution of groceries. Dun's R 32:8-9 N 15 '24
New deal on compensating wholesale distributors. F. D. Bristley. Ptr Ink 129:8+ N 27 '24
New help for the nationally advertised line; cash-and-carry wholesaler. Ptr Ink 128:3-4+ Jl 31 '24
Private brands the barrier to harmony in grocery field. A. E. Haase. Ptr Ink 132:33-4+ Ag 13 '25
Sales of groceries show some increase. Dun's R 32:8+ Mr 22 '24
Stores on wheels bid for recognition as retail outlet. Ptr Ink 127:41-2 Ap 17 '24
Survey of merchandising trends in the grocery field. R. W. Johnson. Sales Management 9:346-8+ S 19 '25
Unique selling methods develop huge grocery business. il Am Exporter 95:33+ O '24
What I discovered about wholesale grocers. Ptr Ink 132:17-20 Jl 2 '25
What the retail grocer must do to achieve success. il Am Exporter 95:37-9 Ag '24
Why Austin-Nichols put sales and service on wheels. C: W. Patterson. Ptr Ink 130:149-50+ Mr 19 '25

See also Butter; Canned food; Chain stores; *also* Calumet baking powder company; North Dakota wholesale grocers' association

Advertising

Cooperative advertising by retail service grocers. S: Freed and A. V. Stalick. 24p Univ. of Colorado, University extension division, Boulder '25
Costless direct-mail campaign that rebuilt our business. H. Schloesser. System 47:307-10+ Mr '25
Four most important things we learned in rebuilding our business. H. Schloesser. il System 47:633-6 My '25
How can a wholesaler advertise? C. B. Larrabee. Ptr Ink 129:107-8+ O 16 '24
Planning direct advertising for grocers, etc. R. E. Ramsay. Inland Ptr 74:557-61 Ja '25
65% more sales and closer collections through letters. H. W. Cochran. System 45:27-9 Ja '24
Three ways we boosted our volume. H. Schloesser. il System 47:485-7+ Ap '25
Van Camp's answer to the "it won't sell in my territory" alibi. H. P. Way. Sales Management 8:519+ Ap 4 '25

See also Coffee—Advertising; Flour trade—Advertising; Tea—Advertising

Costs

Operating expenses of retail grocery stores in Nebraska in 1924 (Nebraska studies in business, no. 12) 29p Univ. of Nebraska Ext. div., Lincoln '25

Statistics

Statistical survey of the wholesale and retail grocery business. Comm & Fin 14:1406 Jl 22 '25

Australia

What it costs to conduct an Australian grocer's shop. Am Exporter 95:44-5 Jl '24

United States

Great American cupboard. D: N. Walker, jr. Ptr Ink 125:132+ N 8 '23
Movement of groceries steady. Dun's R 33:8-9 Jl 18 '25
Packers and the consent decree. T: J. Ross, jr. Am Ind 25:14-16 Ap '25
Packers' consent decree. Index p 10-12 Je '24
Steady movement in the grocery trade. Dun's R 33:8-9 Mr 21 '25

GROOVING
Designing an automatic groove-milling machine. A. A. Dowd. diags Mach 32:114-17 O '25
Fixture for grooving spark plugs. F. M. Weston, jr. il diags Mach 31:897-8 Jl '25
Machine for cutting helical grooves. M. Wright. il Am Mach 61:321-2 Ag 21 '24
Truing the grooves in traction elevator sheaves. il Power 62:222-3 Ag 11 '25

See also Oil grooving machines

GROUND detectors. See Electric distribution—Grounds and faults

GROUND waters. See Water, Underground

GROUNDS and faults. See Electric distribution—Grounds and faults

GROUNDWOOD. See Wood pulp

GROUP insurance. See Insurance, Group

GROUTED walls. See Walls, Grouted

GROUTING
Ciment fondu proves unsuccessful for grout. Elec Ry J 63:618-19 Ap 19 '24
Grouting reinforces rock at Oak Grove surge chamber; novel extensometers for tests during work in tunnel. il plan Eng N 95: 746-9 N 5 '25
Method of grouting foundation for highway bridge. Eng & Contr (R & S) 60:994-5 N 7 '23
Repairing leaks in a dry dock by grouting. W. M. Angas. il diags plan Am Soc C E Pro 51:62-79 Ja '25; Excerpts. Engineer 139:359-60 Mr 27 '25
Saving a rotting concrete bridge; cement injected under steam pressure. H. P. Brown. il Sci Am 131:178 S '24
Simple and efficient grouting outfit. R. W. Cropper. il Eng N 93:149-50 Jl 24 '24
Special grouting prevents stack-base movements. H. D. Fisher. diag Power 62:297 Ag 25 '25

GROWER-group control. See Marketing, Cooperative

GROWTH curves
Growth curves and railway traffic. L. E. Peabody. Am Statis Assn J 19:476-83 D '24; Discussion. H: Schultz. 20:242-4 Je '25

GROYNES. See Shore protection

GUAIACOL
Influence of pressure on the freezing point of *p*-nitrotoluene, *m*-dinitrobenzene and guaiacol. N. A. Pushin. diag Chem Soc J 125:2628-30 D '24

GUANIDINE
Action of guanidine upon glucose in the presence and absence of oxygen. E. J. Witzemann. Am Chem Soc J 46:790-4 Mr '24
Analysis of organic rubber vulcanising accelerators. T. Callan and N. Strafford. Soc Chem Ind J 43:3-6 Ja 4 '24

See also Nitroguanidine

GUANIDINIUM compounds
Preparation of guanidinium salts from calcium cyanamide. J. S. Blair and J. M. Braham. diags Ind & Eng Chem 16:848-52 Ag '24

GUANTANAMO sugar company
18th annual report for year ending Sept. 30, 1923. Comm & Fin Chr 117:2664 D 15 '23
19th annual report for the fiscal year ending Sept. 30, 1924. Comm & Fin Chr 119:2774 D 13 '24

GUARANTY. See Suretyship and guaranty

GUARANTY of goods
American guarantees abroad. J. True. Ptr Ink 130:25-6+ F 19 '25
Demuth advertises pipe guarantee like insurance policy. Ptr Ink 126:25-6+ Mr 27 '24
Dressing up the guarantee. A. Belden. Ptr Ink 128:57-8+ Jl 3 '24
George Washington thought straight on guarantees. Ptr Ink 130:169+ Ja 15 '25
Getting the guarantee across pictorially. W. L. Larned. Ptr Ink M 11:72+ S '25
How to answer the abuser of guarantees. E. B. Weiss. Ptr Ink 129:124+ N 20 '24

GUARANTY of goods—*Continued*
What are we going to do about guarantee abuses? E. B. Weiss. Ptr Ink 128:3-4+ Ag 28 '24
When the guarantee becomes a boomerang. L. G. Herbert. Am Gas J 121:834+ S 13 '24
Why an advertised trade-mark eventually takes place of the guarantee. Ptr Ink 127: 57-8 Ap 24 '24
Why our business didn't suffer when we discontinued our guarantee. E. Freschl. il Sales Management 7:1455-6+ S '24
See also Trade associations—Guarantees

GUARD rails
Guard rails on sharp curves. J. J. Burns. il diags Ry R 75:327-9 Ag 30 '24; Same. Eng & Contr (Ry) 62:1349-51 D 17 '24
Relative wear on guarded and unguarded curves. J. F. Burns. diags Ry R 76:779-80 Ap 25 '25

GUARDS, Highway. See Roads—Safety guards

GUARDS (machinery). See Machinery—Safety devices

GUATEMALA
See also Money—Guatemala

GUAYULE
Guayule—a high grade rubber. India Rubber W 77:652-3 Ag '25
Guayule as a rubber softener. Rubber Age 16:266 Ja 25 '25

GUELPH, Ontario
Water supply
Water works pumping plant at Guelph, Ont. H. S. Nicklin. il Can Eng 46:267-8 F 26 '24

GUGGENHEIM foundation
Establishment by Simon Guggenheim of $3,-000,000 memorial foundation endowing fellowships. Comm & Fin Chr 120:1047 F 28 '25; Eng & Min J 119:396 Mr 7 '25

GUILLARD, Charlotte
Charlotte Guillard, printer of the renaissance. B. L. Becker. il Inland Ptr 72:438-40 D '23

GUINEA green B
Evidence concerning the constitution of Guinea green B. H. Wales. Am Chem Soc J 46:2124-8 S '24

GULF Coast lines. See New Orleans, Texas and Mexico railway (Gulf Coast lines)

GULF Mobile and northern railroad company
Annual report, 8th, for the year ended Dec. 31, 1924. Comm & Fin Chr 120:3181 Je 20 '25

GULF oil corporation
Gulf company increases financial strength in 1924. R. B. Stafford. Nat Pet N 17:84+ Ap 1 '25

GUM arabic
Influence of gum arabic on the hydrolysis of methyl acetate. J. N. Pearce and J. V. O'Leary. J Phys Chem 28:51-4 Ja '24

GUMMED paper. See Paper, Gummed

GUMMY deposits in gas meters. See Gas meters—Gummy deposits

GUMS and resins
Action of heat on the acids obtained from French and American rosins by crystallisation. E. Knecht. Soc Dyers & Col J 39: 338-40 N '23
Composition of the oleoresin of Douglas fir. H. K. Benson and D. F. McCarthy. Ind & Eng Chem 17:193-4 F '25
Examen microscopique des gommes à vernis. P. Nicolardot and C: Coffignier. il Chimie & Ind 11:456-68 Mr '24
Gums and resins of Latin America. O: Wilson. il Chem & Met Eng 31:374-6 S 8 '24
Gums, waxes, shellac: market review. Oil Paint & Drug Rep 105:93-4 Mr 20 '24; 107: 89-91 Mr 26 '25
New Zealand brown coals; preliminary examination of brown coals; preliminary ex-Otago. L. H. James. Soc Chem Ind J 44: 241-2 My 15 '25
Study of the resins in western coal. H. K. Benson. Ind & Eng Chem 17:21-3 Ja '25
See also Bakelite; Balata; Black dammar; Kauri; Phenol condensation products; Propolis gum; Redmanol; Resinous products; Rosin
Prices
Gums and waxes. Published in weekly numbers of Oil paint and drug reporter

GUMS and resins, Fossil
Commercial recovery of fossil gums. W. M. Meyers. Chem & Met Eng 31:617-18 O 20 '24
New Zealand's fossil gums; kauri. W. M. Myers. Chem & Met Eng 31:663-4 O 27 '24
Some notes on copal gum. W. M. Myers. Chem & Met Eng 31:702 N 3 '24

GUN metal
Methods of casting test specimens of gun metal. E. H. Dix, jr. il diags Am Soc T M Pro 23 pt 2:130-40; Discussion. 141-9 '23
Physical properties of Admiralty gun metal. F. W. Rowe. Engineering 118:436 S 19 '24
Tensile strength of gun metal. Foundry 53: 656 Ag 15 '25
Analysis
Analysis of brass and gunmetal. Chem Age (Lond) 11:[met sec] 2 Jl 5 '24

GUNCOTTON. See Nitrocellulose

GUNCRETE. See Gunite

GUNITE
Building strengthened; beams built up with gunite. il Concrete 25:223-4 D '24
Does scour explain why gunite clings tight to rock? J. D. Paton. Coal Age 28:490 O 8 '25
Exterior finish, California palace of the Legion of honor. E. F. Halloran. il Eng & Contr (Bldgs) 63:399-402 F 25 '25
Grandstand with gunite seat deck. il diag Concrete 23:199 N '23
Guncrete restores damaged building. il Concrete 26:25-6 Ja '25; Same. Eng N 94:288 F 12 '25; Same. Eng & Contr (Bldgs) 63: 427-8 F 25 '25
Gunite construction in Honduras; building a million-gallon power reservoir. S: G. Lasky. il diag plan Eng & Min J 119:803-4 My 16 '25
Gunite protection for steel structures. P: Gillespie and P. J. Culliton. il Can Eng 47:451-4, 473-6 O 28-N 4 '24; Conclusions. Concrete 25:231 D '24
Heavy concrete dam repaired with guncrete. il diag Concrete 26:212-13 Je '25
New method for supporting building columns. G: E. Goodall. il Eng N 94:145-6 Ja 22 '25
Penalty of dead load; Bronx terminal market, New York. il plan Am Arch 127:515-17 Je 3 '25; Same. Can Eng 49:539-41 N 10 '25
Repairing an ammonia tank by use of a cement gun. il Gas Age 54:772 N 29 '24
Repairing water and sewer works with gunite. L. B. Penhallow. il Munic & Co Eng 66:149-50 Ap '24
Salvaging old stone bridge with cement gun. W. D. McClusky, jr. Eng & Contr (Bldgs) 61:703 Mr 26 '24
Sewer repairing in Dayton; cost tables. I. E. Houk. il Pub Works 55:87-9 Mr '24
See also Cement gun
Testing
Coefficient of expansion tests on gunite. M. O. Fuller. il Am Concrete Inst Pro 21:180-2 '25

GUNNERY
See Ballistics; Guns (ordnance); Projectiles

GUNPOWDER
See Smokeless powder

GUNS
See also Naval guns; Rifles
Manufacture
Méthodes employées pour la fabrication des armes en série et leur mise au point. E: Dufrasne. Soc Ing Civils Bul 76:1135-7 O '23

GUNS—*Continued*

Testing

Tabbing the speeding bullet. E: C. Crossman. il Sci Am 131:152-3 S '24

GUNS, Anti-aircraft

Coast artillery and air service. F. W. Coe. Aviation 15:686 D 3 '23

Driving the bomber to high altitudes. il Sci Am 129:396 D '23

New .50 anti-aircraft gun tested. Aviation 19: 553 O 19 '25

War department anti-aircraft record. Aviation 19:247 Ag 31 '25

GUNS (ordnance)

German long-range gun; abstract. H. W. Miller. Mech Eng 45:709 D '23

See also Machine guns; Naval guns

History

Traces cannon manufacture. J. Goostray, R. F. Harrington and M. A. Hosmer. il Foundry 53:404-8, 445-8+ My 15-Je 1 '25

Testing

New instruments for physical measurements developed in connection with recent research work by the Ordnance department. W. H. Tschappat. il diags Mech Eng 45: 673-8 D '23

GUTENBERG, Johann

Portrait of John Gutenberg. front Ptg Art 43: 140 Ap '24

Portrait reproduced in four colors from an oil painting by Henry Raschen. Inland Ptr 76:216a N '25

GUTENBERG museum, Mainz

Anniversary of the Gutenberg museum. Dr Ruppel. il Inland Ptr 75:905-6 S '25

GUTTERS (roof)

Copper-gutter and flashing work. K. I. Willis. diags Sheet Metal Worker 16:123 Mr 27 '25

Design of a combination gutter. J. P. Harner. diag Sheet Metal Worker 15:36+ F 15 '24

Gutters of steel plate 375 ft. long. diags Iron Age 115:1497-8 My 21 '25; Sheet Metal Worker 16:405 Jl 3 '25

Leaders and gutters. il Bldg Age 47:124-5 My '25

Simplified practice recommendation on eaves trough and conductor pipe. Sheet Metal Worker 15:942 Ja 2 '25

GUY anchors. See Anchors, Guy

GUYS

Calcul des poutres à consoles et portiques raidis par des haubans. G. Prudon. diags Génie Civil 85:290-3 O 4 '24

Le réglage des tensions mécaniques des cables; application au réglage des tensions de pose des haubans de pylônes de T.S.F. P. Bouvier and M. Bourseire. Génie Civil 85: 497-500 N 29 '24

Selecting guys for steel chimneys. W. W. Christie. Power 60:977-8 D 16 '24

GYMNASIUMS

Dynamic effect of moving floor loads; stresses measured in the floor and balcony of a college gymnasium. Am Arch 126:455-6 N 5 '24

George Marston Whitin gymnasium, Whitinsville, Mass.: views and plans. Arch Forum 40:85, pl 29-30 F '24

Gymnasium addition to the East Orange, N.J., high school; views. Am Arch 127:pl 85-7 Ap 8 '25

Hygiene at the men's gymnasium, University of California. F. Kleeberger. Nation's Health 7:478-9 Jl '25

Movable bleachers for school gymnasia and girls' gymnasium dressing and shower booths. il diags plans Am Arch 127:135-41 F 11 '25

Wiley high school gymnasium, Terre Haute, Ind. Am Arch 127:525 Je 3 '25

GYPSUM

Adhesion of gypsum plaster to concrete. Eng N 93:909 D 4 '24; Same. Concrete 25:237 D '24

Adhesion of gypsum plaster to various backings. il diags Am Arch 128:227-34 S 9 '25

Effects of temperature and pressure on gypsum and anhydrite. M. Farnsworth. U S Bur Mines Rep of Invest 2654:1-3 N '24 (typew)

Getting rid of efflorescence on gypsum plaster. F. C. Welch. Chem & Met Eng 31:263-4 Ag 18 '24

Gypsum deposits of Southwestern Persia. J. V. Harrison. maps Econ Geol 19:259-73; Bibliography. 273-4 Ap '24

Gypsum in 1922. K. W. Cottrell. Concrete 23: supl03 D '23

Gypsum produced and sold in the United States. Manuf Rec 86:335 pt 2 D 11 '24

Hydration of anhydrite. M. Farnsworth. Ind & Eng Chem 17:967-70 S '25

Marketing of gypsum. F. A. Wilder. Eng & Min J 117:403-6 Mr 8 '24

Mineral industry of the British Empire and foreign countries; statistics, 1919-1921. 24p Gt. Brit. Imperial mineral resources bur., London '24

Mineral industry of the British Empire and foreign countries, war period, 1913-1919. 31p Gt. Brit. Imperial mineral resources bur., London '23

New operating methods in calcining and grinding gypsum. A. W. Allen. il diag plan Chem & Met Eng 29:919-20 N 19 '23

Notes on gypsum mortars and mortar consistency. H. E. Brookby. Am Soc T M Pro 23 pt 2:448-52 '23

Pacific company builds new gypsum mill. W. C. Stevenson. Concrete 23:supl01-2 D '23

Sources of limestone, gypsum, and anhydrite for dusting coal mines to prevent explosions. O. Bowles. U S Bur Mines Bul 247: 1-68, pl 1-15 '25

Standard gypsum co. to work deposits on San Marcos Island. plan Eng & Min J 119:696 Ap 25 '25

United States consumption of gypsum. Comm M 5:14-15 Ap '24

See also Plaster of Paris

Analysis

Analysis of gypsum and gypsum products. F. C. Welch. Ind & Eng Chem 16:238-41 Mr '24

Comparison of methods of analysis of gypsum. P. P. Budnikoff. Am Cer Soc J 7:817-20 N '24

Bibliography

References on gypsum. W Soc E J 28:[current news]244-5 D '23

Storage

Gypsum company starts extensive plant additions. Concrete (cement mill sec) 27:43 Ag '25

Testing

Standard methods of testing gypsum and gypsum products. diags Am Soc T M Standards 1923:60-9

GYPSUM, Reinforced

Reinforced gypsum. Can Eng 47:215 Ag 5 '24

Reinforced gypsum. C. Elliott. 16p Institution of civil engineers, London '24

GYPSUM concrete

Competition for small structolite concrete houses and bungalows. il diags plans Arch Forum 42:289-96 My '25

Physical properties of structolite. il Eng & Contr (Bldgs) 63:403-6 F 25 '25

Structolite—a new fireproof material. A. C. Carruthers. il Safety Eng 49:69-73 F '25; Same abr. Am Ind 25:28-31 Mr '25

Structural quality gypsum concrete. il Am Arch 127:237-40 Mr 11 '25

GYPSUM products

Cost of applying gyp-lap. il Eng & Contr (Equip R) 64:240-1 Jl 29 '25; Same cond. Eng N 95:237 Ag 6 '25

Fire-resisting wallboard in industrial plants. H. E. Jeddy. il Ind Eng 83:235-7+ My '25

Insulex, gypsum insulating material. il Eng & Contr (Equip R) 64:766 S 30 '25

GYPSUM products—*Continued*
$1,000,000 plaster and wallboard plant placed in operation at Sweetwater, Texas. H. A. Simons. il Manuf Rec 86:75-6 Jl 10 '24
Some modern gypsum products. J. M. Porter. diags Chem & Met Eng 32:499-500 My '25
Textone—a new decorative material for gypsum wall board. il Eng & Contr (Equip R) 62:247-8 Jl 30 '24
Turning calcium sulphate wastes into valuable products; fireproof tile and stucco. G. L. Montgomery. il Chem & Met Eng 32: 547-51 Je '25
United States government master specification for gypsum plaster board. U S Bur Stand Circ 210:1-3 '25
United States government master specification for gypsum wall board. U S Bur Stand Circ 211:1-3 '25
Weatherproofing of gypsum block. Concrete 26:137-8 Ap '25; Same. Am Arch 127:436 My 6 '25

Advertising

How U.S. gypsum reaches for the architect's approval. H. A. Simons. Ptr Ink M 10:60+ My '25

GYPSUM tile
Fireproof gypsum tile. il Safety Eng 48:201-4 N '24
New gypsum tile board. il Eng & Contr (Bldgs) 62:483 Ag 27 '24

Testing

Properties of gypsum tile. J. M. Porter. Am Soc T M Pro 24 pt 2:901-8 '24

GYRO compass
Gyro compass incorporating two gyroscopes. J. B. Henderson. diags Philos Mag 6th ser 49:273-83 Ja '25
New field of investigation—automatic gyrosteering. Marine Eng 30:584-6 O '25

GYROSCOPE
Gyroscopes et projectiles. H. P. M. Bouasse. 429p Delagrave, Paris '23
Gyroscopic pendulums. J. G. Gray. Electrician 93:671 D 12 '24

GYROSCOPIC forces
Stabilization of instable equilibrium by means of gyroscopic forces. H. J. E. Beth. Philos Mag 6th ser 48:447-50, 1183-90 F, Je '25

H

H acid
H acid; abstract. G. Poma and G. Pellegrini. Soc Dyers & Col J 40:235 Jl '24
Manufacture of H acid. Am Dyestuff Rep 13: 446 Je 30 '24
Preparation of H-acid. M. L. Willard. Color Tr J 15:40-2 Ag '24

HABER, Fritz
Finance and science in international cooperation; an encomium. R. H. McCready. Chem Age 32:399-400 O '24

HABER process. See Ammonia—Manufacture

HACKENSACK, New Jersey

Water supply

Oradell dam of the Hackensack water company. N: S. Hill, jr. il diags map plans Am Soc C E Pro 51:1569-90 O '25; Discussion. 52:118-21, 325-8 Ja-F '26

HAEMOGLOBIN. See Hemoglobin

HAFNIUM
Density of the oxides of zirconium and hafnium. G: Hevesy and V. Berglund. Chem Soc J 125:2372-5 N '24
Discovery and properties of hafnium. G. Hevesy. Chem R 2:2-41 [bibliog. p. 39-41] Ap '25
Hafnium content of zirconium ores. G: Hevesy and V. T. Jantzen. Chem Soc J 123: 3218-23 D '23
How hafnium was discovered. Sci Am 130:88 F '24
Marketing of rare metals and minerals. H. C. Meyer. Eng & Min J 118:288 Ag 23 '24
Name hafnium in preference to the name celtium. Soc Chem Ind J (Chem & Ind) 44: 619-20 Je 19 '25
X-ray spectra of hafnium and thulium. D. Coster. Philos Mag 6th ser 46:956-63, pl 13 N '23

HAFNIUM phosphate
Solubilities of the phosphates of zirconium and hafnium. G. Hevesy and K. Kimura. Am Chem Soc J 47:2540-4 O '25

HAGFISH
Blind fish that puzzles science. il Sci Am 132:411 Je '25

HAIL
Rotation of melting ice suspended in benzine. H. B. Hachey. J Fr Inst 197:825-7 Je '24

HAIL insurance. See Insurance, Hail

HAIR
Effect of sulfides on the alkaline hydrolysis of skin and hair. H: B. Merrill. Ind & Eng Chem 17:36-9 Ja '25
Fog alarms operated by a human hair. Sci Am 130:257 Ap '24
Hydrolysis of skin and hair. H: B. Merrill. Ind & Eng Chem 16:1144-6 N '24
Revolutionary new facts about hair. L. A. Hausman. il Sci Am 132:98-9 F '25
Why hair turns gray. L. A: Hausman. il diag Sci Am 133:306-7 N '25

Dyeing and bleaching

Non-poisonous hair dye. Color Tr J 16:109-10 Ap '25
Systemic poisoning by hair dye. Monthly Labor R 18:1126-7 My '24

HAIR nets
Human hair—a rather unusual textile fiber; Chinese queues used almost exclusively. E. Cogliostro. il Color Tr J 14:63-5 F '24

HAIR worms
Horse-hair snake; an account of the extraordinary life history of one of our common worms. L. A: Hausman. il Sci Am 129:402 D '23

HAIRDRESSING
Producing the permanent wave; a new and novel use for gas. J. Jares. Am Gas J 121: 633-4 Jl 12 '24

HAITI
See also Commercial law—Haiti; Finance —Haiti; Geology—Haiti; Roads—Haiti

Economic conditions

Facts about Haiti. H. P. Davis. il World's Markets 14:9-12+ F '24
Haiti; an economic survey. U S Bur For & Dom Com Trade Information Bul 264:1-25 '24

HAKE liver oil
Studies of the vitamin potency of cod-liver oil; vitamin A potency of hake-liver oil. A. D. Holmes. Ind & Eng Chem 16:379-80 Ap '24

HALDEMAN-JULIUS publishing company
Haldeman-Julius—the Ford of book publishing. H. Flint. il Inland Ptr 74:548-50 Ja '25

HALF-timbered houses
Half timber. S: Chamberlain. il Am Arch 125:1-6 Ja 2 '24
Use of half timber, stucco and brick, shown in some recent work of Frank J. Forster. il plans Arch Forum 43:225-32 O '25

HALFTONES. See Photoengraving

HALIDES
Absorption of ultra-violet light by inorganic halides. F: H. Getman. diags J Phys Chem 29:853-64 Jl '25
Action of inorganic halides on organometallic compounds. F: Challenger and F. Pritchard. Chem Soc J 125:864-75 Ap '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:11 Ja 4 '24

HALIDES—*Continued*
Behaviour of the simple halides with water. N. V. Sidgwick. Chem Soc J 125:2672-4 D '24
Chemical affinity and electron affinity. R. H. Gerke. Am Chem Soc J 46:953-8 Ap '24
Determination of chlorides by means of a calorimetric titration and some experiments on the titration of mixtures of cyanide and halides. P. M. Dean and E. Newcomer. Am Chem Soc J 47:64-7 Ja '25
Formation of 3-halogenocarbazoles from carbazole-3-diazonium halides. S. H. Tucker. Chem Soc J 125:1144-8 My '24
Ionization of salt vapors. W. M. Latimer. Am Chem Soc J 45:2803-8 D '23
Preparation of various aliphatic halides and halohydrin compounds. M. T. Bogert and E: M. Slocum. Am Chem Soc J 46:763-8 Mr '24
Relation between the structure of organic halides and the speed of their reaction with inorganic iodides; the problem of alternating polarity in chain compounds. J. B. Conant and W. R. Kirner. Am Chem Soc J 46:232-52 Ja '24
Relation between the structure of organic halides and the speeds of their reaction with inorganic iodides; a study of the alkyl chlorides. J. B. Conant and R. E. Hussey. Am Chem Soc J 47:476-88 F '25
Relation between the structure of organic halides and the speeds of their reaction with inorganic iodides; the influence of unsaturated groups. J. B. Conant, W. R. Kirner and R. E. Hussey. Am Chem Soc J 47: 488-501 F '25
Researches on residual affinity and coordination; heats of chelation of dithiolated metallic halides. G. T. Morgan, S. R. Carter and W: F. Harrison. Chem Soc J 127:1917-25 S '25

See also Alkali halides; Alkyl halides; Antimony halides; Chlorides; Germanium tetrahalides; Iodides; Lithium halides; Mercaptomagnesium halides; Perhalides; Salt; Silver halides

HALL, Robert George
Metallurgists of note. por Eng & Min J 118: 884 D 6 '24

HALL effect
Application of the electron theory to the Hall effect. J: A Eldridge. Phys R 21:131-42 F '23; Discussion. 24:283-6 S '24
Connections between the four transverse galvanomagnetic and thermomagnetic phenomena. P. W. Bridgman. Phys R 24:644-51 D '24
Galvanomagnetic and thermomagnetic effects. L. L. Campbell. 311p [bibliog. p. 273-308] Longmans '23
Hall effect and specific resistance of cathodically deposited films of gold. S. S. Mackeown. Phys R 23:85-93 Ja '24
Hall effect in a conductor due to its own magnetic field. W. van B. Roberts. diags Phys R 24:532-43 N '24
Mobility of negative ions in flames by the Hall effect method. J. S. Watt. Phys R 25:69-74 Ja '25
Theory of galvanomagnetic phenomena in flames. C. W. Heaps. Phys R 24:652-7 D '24

HALL planetary company
Modern manufacturing plant. J. R. Thomas. il plan Management & Adm 10:261-4 N '25

HALL-SCOTT motor car co., Berkeley, California
Handling cost reduced by rearranging stock room. Iron Age 115:1056-7 Ap 9 '25

HALLS
Designing and furnishing the entrance hall. il plans Am Arch 125:395-400 Ap 23 '24
Designing the office building lobby. il diag Am Arch 126:241-6 S 10 '24

HALOCHROMISM
Electrochemical relation of free radicals to halochromic salts. J. B. Conant, L. F. Small and B. S. Taylor. Am Chem Soc J 47:1959-74 Jl '25

HALOGEN acetyl compounds
Relations between rotatory power and structure in the sugar group. C. S. Hudson. Am Chem Soc J 46:462-83 F '24

HALOGEN compounds
Action of halogens on phenylhydrazones; the action of chlorine. J. E. Humphries, H: Humble and R. Evans. Chem Soc J 127: 1304-7 Je '25
Addition products of selenium dioxide with the halogen acids. C. W. Muehlberger and V: Lenher. Am Chem Soc J 47:1842-4 Jl '25
ββ′-dichloro- and ββ′-dibromo-diethyl selenides and their simple halogen derivatives. H. C. Bell and C: S. Gibson. Chem Soc J 127:1877-84 Ag '25
Condensation of the isomeric tolyl-2-thio-4-keto-thiazolidines (rhodanic acids) with substituted vanillins. R. M. Hann. Am Chem Soc J 47:1998-2002 Jl '25
Conditions underlying the formation of unsaturated and cyclic compounds from halogenated open-chain derivatives. W. Haerdi and J. F. Thorpe. Chem Soc J 127:1237-48 Je '25
Conditions underlying the formation of unsaturated and cyclic compounds from halogenated open-chain derivatives; products derived from halogenated α-methylglutaric acids. C. K. Ingold. Chem Soc J 127:387-98 F '25
Halogen compounds in starch; abstract. M. Bergmann and S. Ludewig. Soc Dyers & Col J 40:379-80 N '24
Halogen-substituted 1-arylpyrazolones. F: D. Chattaway and C: R: N. Strouts. Chem Soc J 125:2423-7 N '24
Halogenated hydrocarbons as dielectrics; effect of flash and fire point of transformer oils. H. C. P. Weber and R. H. Wynne. Am Electrochem Soc Trans v 46 (preprint 13):189-95 O '24
Influence of constitutional variation upon the absorption and stability to hydrogen ions of certain halogenated derivatives of fluorescein. W. C. Holmes. Am Chem Soc J 46: 2770-5 D '24
Polarity effects in aromatic halogen compounds. J: B. Shoesmith, A. C. Hetherington, and R. H: Slater. Chem Soc J 125:1312-19 Je '24
Preparation and reactions of the dihalogenodinitromethanes. R. A. Gotts and L: Hunter. Chem Soc J 125:442-50 F '24
Preparation of halogen-substituted ethers. H. P. Foran. Soc Chem Ind J 44:173-4 Ap 17 '25
Quantitative reduction by hydriodic acid of halogenated malonyl derivatives; a study of the mechanism of the reaction. R. W. West. Chem Soc J 125:710-21 Mr '24
Rotatory dispersive power of organic compounds; halogen derivatives of camphor: optical superposition in the camphor series. J: O. Cutter, H: Burgess and T: M. Lowry. Chem Soc J 127:1260-74 Je '25
Studies in the organic polysulphides; the action of the disulphides of the alkali metals and of sodium tetrasulphide on some organic halogen compounds. J: S. Thomas and R: W: Riding. Chem Soc J 125:2460-8 D '24
Tautomerism of dyads; acetylene and its halogen derivatives. E. H. Ingold. Chem Soc J 125:1528-37 Jl '24
Unsaturated 1,4-diketones; halogen derivatives of dibenzoyl-ethylene and related substances. J. B. Conant and R. E. Lutz. Am Chem Soc J 47:881-92 Mr '25

See also Bromonitromethane; Halides; Mercaptomagnesium halides

HALOGEN hydrides. See Hydrogen halides

HALOGENATION
Halogenation of fumaric and maleic acids; a note on the Walden inversion. E. M. Terry and L. Eichelberger. Am Chem Soc J 47: 1067-78 Ap '25
Halogenation of *s*.-dipotassium tetranitroethane. L: Hunter. Chem Soc J 125:1480-4 Jl '24

HALOGENATION—*Continued*
Labile nature of the halogen atom in organic compounds; the halogenation of ethyl acetylsuccinate. A. K. Macbeth and D: Traill. Chem Soc J 127:1118-22 My '25

HALOGENO platinates. See Haloplatinates

HALOGENS
Action of halogens on pyrrole to give colored solutions. G. E. K. Branch and H. E. H. Branch. Am Chem Soc J 46:2469-74 N '24
Action of halogens upon *m*- and *p*-nitrobenzaldehydephenylhydrazones. F: D. Chattaway and A. J: Walker. Chem Soc J 127: 1687-98 Jl '25
Kinetics of the reaction between the halogens and saturated aliphatic ketones in dilute aqueous solution. F. O. Rice and C: F. Fryling. Am Chem Soc J 47:379-84 F '25
Labile nature of the halogen atom in organic compounds; the action of hydrazine hydrate on the halogen derivatives by α-nitro-fatty acids. A. K. Macbeth and D: Traill. Chem Soc J 127:892-8 Ap '25
Labile nature of the halogen atom in organic compounds; the halogenation of ethyl acetylsuccinate. A. K. Macbeth and D: Traill. Chem Soc J 127:1118-22 My '25
Mohr's method for the determination of silver and halogens in other than neutral solutions. H. W. Doughty. Am Chem Soc J 46: 2707-9 D '24
Quantitative measurements of the reactivity of the halogens in aromatic compounds. A. H: Rheinlander. Chem Soc J 123:3099-3110 D '23
Quantitative reduction by hydriodic acid of halogenated malonyl derivatives; the influence of substitution in the amide group on the reactivity of the halogen atom in bromomalonamide. R. W. West. Chem Soc J 127:748-53 Mr '25
Relation between the structure of organic halides and the speed of their reaction with inorganic iodides; the problem of alternating polarity in chain compounds. J. B. Conant and W. R. Kirner. Am Chem Soc J 46:232-52 Ja '24
Study of the luminous discharge in chlorine; the electron affinity of halogen molecules. W. A. Noyes, jr. diag Am Chem Soc J 46: 1598-1606 Jl '24
Viscosities of the liquid halogens. E. W. R. Steacie and F. M. G. Johnson. diags Am Chem Soc J 47:754-62 Mr '25

See also Bromine; Chlorine; Fluorine; Halogen compounds; Halogenation; Iodine

HALOHYDRIN compounds
Preparation of various aliphatic halides and halohydrin compounds. M. T. Bogert and E: M. Slocum. Am Chem Soc J 46:763-8 Mr '24

HALOPLATINATES
Method for the preparation of the double fluorides of the metals of the platinum group and the absorption spectra of the halogeno platinates. H. I. Schlesinger and M. W. Tapley. Am Chem Soc J 46:276-87 F '24

HAM, John G.
Six point league honors John G. Ham. por Ptr Ink 131:84+ Ap 2 '25

HAMBIDGE, Jay
Dissertation on dynamic symmetry. C. Bragdon. il diags Arch Rec 56:305-15 O '24

HAMBURG, Germany
Rapid transit
Financing rapid transit extensions in Hamburg. W. Stein. Elec Ry J 65:655-6 Ap 25 '25

HAMILTON, Edward Montague
Metallurgists of note. por Eng & Min J 119: 236 F 7 '25

HAMILTON, Ontario
Sewerage
Homeside district sewers, Hamilton, Ont. H. S. Philips and W. M. Johnston. diags plans Can Eng 46:467-72 Ap 29 '24; Same cond. Concrete 25:24-7 Jl '24

HAMMERS
Beaudry air-cushioned helve hammer. il diag Am Mach 61:1016 D 25 '24; Elec Ry J 64: 1040 D 20 '24; Iron Age 114:1670 D 25 '24; Ry Mech Eng 99:307 My '25
Hammer for general shop service. il Iron Age 114:915 O 9 '24
Hammer that hits hard and recovers easy. il diags Sci Am 133:332 N '25
Rational pile-driving formula and its application in piling practice explained. A. Hiley. Engineering 119:657-8, 721-2 My 29, Je 12 '25
Subaqueous pile driving at Portland, Ore. diag Eng N 95:53-4 Jl 9 '25

See also Electric hammers; Pneumatic hammers

HAMMERS, Drop
Brett drop hammer for multiple-die stamping. il diags Engineer 137:154-5 F 8 '24
Erie four-roll board drop hammer. il Am Mach 63:492 S 17 '25; Iron Age 116:685-6 S 10 '25
5000-lb. four roll board drop hammer built for Chrysler. il Automotive Ind 53:752-3 O 29 '25
From anvil to drop hammer. H. R. Simonds. il Iron Tr R 74:163-6 Ja 10 '24
Merrill drop hammers. il Iron Age 112:1720 D 27 '23; Iron Tr R 74:178 Ja 10 '24; Ry Mech Eng 98:126-7 F '24: Mach 30:402 Ja '24
Remarkable drop hammer and its work; made by Brett's patent lifter company. il diags Engineer 138:76, 86-7 Jl 18 '24

HAMMERS, Electric. See Electric hammers

HAMMOND, John Hays, jr.
Rich man's son who has made more than 200 inventions. A. H. Ulm. por Forbes 14:483-4+ Jl 19 '24
Sketch. J. W. Howe. por Wireless Age 12:28-9+ D '24

HAMPTON Roads
Railways' part in the development of Hampton Roads. C: S. Churchill. il map Am Soc C E Pro 49:2006-20 D '23; Discussion. 50: 122-3 Ja '24

HANAN & son
Hanan shoe stores. A. D. Seymour, jr. Arch Forum 40:264 Je '24

HAND, Robert G.
Balance wheel in the treasury; how Robert G. Hand serves as a vital cog. L. Alexander. Am Bankers Assn J 17:622+ Ap '25

HAND-to-mouth buying. See Retail trade—Stock

HANDBILLS
Handbill as a business getter. J: T. Bartlett. Ptg Art 43:237-9 My '24

HANDBOOKS, Engineering. See Engineering handbooks

HANDICRAFT
Architecture as the vestal of the crafts. W: R. Greeley. il Am Arch 127:309-12 Ap 8 '25
Domestic handicrafts. M. H. Murray. 96p Pitman '25
Home handicraft for boys. A. N. Hall. 275p Doran '23
Tinkering with tools. H: H. Saylor. 248p Little, Brown & co., Boston '24

See also Art industries and trade

HANDLING of materials
Analysis of the tax upon the material handling system of a foundry. M. Sklovsky. Brass W 21:337-8 O '25
Causes of accidents in handling material. D: S. Beyer. Safety Eng 47:101-6 F '24; Same. Blast F & Steel Pl 13:239-42 Je '25; Same cond. Nat Safety N 9:27-8 Mr '24
Handling 168 tons for every ton produced. Monthly Labor R 20:1259-63 Je '25
Hyatt methods of material handling. H. J. Forsythe. il diags plan Management & Adm 10:137-40 S '25
Identification of material handling costs develops unusual possibilities. il plan Ry R 75: 706-14 N 8 '24

HANDLING of materials—*Continued*
In moving materials we find a double saving. P. M. Duesing. il Factory 33:507-11+ O '24
Material-handling problems encountered in the assembly of automobiles. M. R. Denison. Mech Eng 46:339-42 Je '24
Safety in handling steel drums, barrels and cases. W. A. Craig and A. A. Smith. il Nat Pet N 17:84-5+ S 16 '25
Savings that came from asking "why"? W. F. Goetz. System 46:662-3+ N '24
Survey of representative materials handling practice in modern plants. M: W. Potts. il (supp) Ind Management 70:66-121 Ag '25

See also Conveying machinery; Electric trucks, Industrial; Factory transportation; Hoisting machinery; Mechanical handling; Motor trucks, Industrial; Storage; Stores systems; Trucks

Costs

Survey of industrial handling. il Factory 35: 184-92, 276+, 369-73+, 552-6+, 730-3+, 896-9+ Ag-D '25

HANGARS
Les hangars à dirigeables de l'aéroport d'Orly. Freyssinet. diags Soc Ing Civils Bul 77:298-313, pl 70 Ap '24
Housing a blimp in reinforced concrete. F: M. Delano, jr. il diags Concrete 24:23-5 Ja '24
Housing a dirigible in a reinforced concrete hangar. il Am Arch 126:451-4 N 5 '24
Housing the air mail. il Aviation 18:547 My 18 '25

Failures

Omaha aerial mail hangar wrecked by gale. R. M. Brown. il diags Eng N 93:180-2 Jl 31 '24

HANOI

Bridges

L'élargissement du pont Doumer sur le fleuve Rouge, à Hanoï (Tonkin). C: Dantin. il diags Génie Civil 86:397-9, pl 4 Ap 25 '25

HANOVER, Ontario

Water supply

Water works extensions, Hanover, Ont. il diag plan Can Eng 48:245-7 F 24 '25

HARBOR police
Montreal stops pilferage evil. Marine R 54: 352-3 S '24

HARBORD, F. W.
Metallurgists of note. W. A. Doman. por Eng & Min J 118:164 Ag 2 '24

HARBORS
L'adjudication des travaux de construction du port de Tanger (Maroc). diags plan Génie Civil 85:159 Ag 16 '24
Les agrandissements du port de La Rochelle. A. Pawlowski. il diags maps Génie Civil 85:265-9 S 27 '24
Les améliorations du port de Boulogne récentes, en cours d'exécution, et projetées. A. Pawlowski. diags plans Génie Civil 84: 517-21 My 31 '24
Anforderungen des neuzeitlichen güterumschlagverkehrs an den hafenbau. G. de Thierry. Zeit Ver Deutsch Ing 69:1209-12 S 19 '25
La construction des ports modernes et leur exploitation. G. Hersent. Soc Ing Civils Bul 78:12-36 Ja '25
Deepening Holyhead inner harbour. il Engineer 138:134, 137 Ag 1 '24
Die Duisburg-Ruhrorter häfen. Germanus. il diags map Zeit Ver Deutsch Ing 69:1213-20 S 19 '25
Harbours and waterways in 1923. Engineer 137:75-7 Ja 18 '24
Harbours and waterways, 1924. Engineer 139: 37-8 Ja 9 '25
How ship growth affects ports. J: H. Walsh. Marine R 54:48-54 F '24; Same abr. Marine Eng 29:39-43 Ja '24
Keeping open our harbor channels. il plan Sci Am 130:149 Mr '24
Marine structures; their deterioration and preservation. W: G. Atwood and A. A. Johnson. 461p [bibliog. p. 462-522] National research council '24
More than $35,000,000 allotted for rivers and harbors—over $20,000,000 in the South. Manuf Rec 87:78 Ap 16 '25
New dry dock at Havre. diags plans Engineer 137:662-3 Je 13 '24; Eng & Contr (Ry) 62: 1337-42 D 17 '24
Port administration and operation. B. Cunningham. 179p Wiley '25
Le port maritime et fluvial de Rotterdam (Hollande). A. Bijls. il diags plans Génie Civil 85:513-21, 549-52 D 6-13 '24
Ports and harbors of South America. W: A. Reid. 115p Pan American union, Washington '23
Practical hydraulic engineering problems. O. C. A. van Lidth de Jeude. Engineer 137: 308 Mr 21 '24
Rheinhäfen. Dassen. il Zeit Ver Deutsch Ing 69:1057-63 Ag 8 '25
River and harbor problems of the lower Mississippi; discussion. Am Soc C E Pro 50: 311-28 Mr '24
River and harbor work. Eng & Contr (G C) 63:839-40 Ap 17 '25
Shipping conditions in port. O. C. A. van Lidth de Jeude. Engineer 137:344 Mr 28 '24
Shore control and port administration. 232p U.S. Engineer dept., Bd. of engineers for rivers and harbors, Washington '23
Les transformations du port de Lorient. A. Pawlowski. il map plans Génie Civil 86:1-5 Ja 3 '25
Les travaux d'agrandissement du port du Havre. C: Dantin. il diags plan Génie Civil 84:369-74, 393-9, pl 5 Ap 19-26 '24
Les travaux d'agrandissement et d'amélioration du port de Naples. P. Boudreaux. il diags plan Génie Civil 86:621-4 Je 27 '25
Les travaux d'extension du port du Havre. M. Michel-Schmidt. diags map (supp) Soc Ing Civils Bul 77:433-515, pl 74-5 Jl '24
Waterways and harbors of the South. S. A. Thompson. il map Manuf Rec 86:230-9 pt 2 D 11 '24

See also Breakwaters; Bulkheads; Docks; Dredging; Dry docks; Fenders, Floating; Jetties; Oil pollution of rivers and harbors; Piers; Pilots and pilotage; Ports; Shore protection; Terminals; *also* subdivision Harbors under names of cities, e.g. Brest, France—Harbor; Chicago—Harbor; Dunkirk, France—Harbor; Long Beach, California—Harbor; Mobile, Alabama—Harbor; Montreal, Quebec—Harbor; New Orleans—Harbor; New York (city)—Harbor; Venice, Italy—Harbor

HARD woods
Tree habits: how to know the hardwoods. J. S. Illick. 337p American nature assn., Washington, D.C. '24

See also Oak

HARDENING
Fuel of the future; hardening calculations. I. Ginsberg. Am Gas J 122:389-91+ My 9 '25
Gleason hardening press for bevel, spur and internal gears. il Iron Age 113:436 F 7 '24
Influence of temperature on the work-hardening of metals. E. G. Herbert. diags Engineer 137:356-7 Ap 4 '24
Surface hardening with oxy-acetylene flame. J. F. Springer. Ry Mech Eng 98:36-7 Ja '24
Work-hardening of metals. Engineer 137:257-8, 279 Mr 7-14 '24
Work-hardening of metals and the Herbert tester. il Engineer 137:248-9+ Mr 7 '24

See also Case hardening; Cement—Setting; Hardness; Steel, Hardening of

HARDING, Warren Gamaliel, 1865-1923
Secretary Hughes's eulogy of the late President Warren G. Harding at Congressional memorial services. Comm & Fin Chr 118: 1871-5 Ap 19 '24

HARDINGE mill

Development of the Hardinge mill. J. C. Farrant. il Chem Age (Lond) 12:300-1, 405-7 Mr 28, Ap 25 '25

Origin of the Hardinge mill. J. C. Farrant. il Chem Age (Lond) 12:98-101 Ja 31 '25

HARDNESS

Accurate determination of the hardness of metals. il diag Engineering 117:518-19 Ap 25 '24

Apparatus for measuring the abrasive hardness of glazes. W. J. Scott. il diag Am Cer Soc J 7:342-6 My '24

Ball indentation test. S: L. Hoyt. Engineer 139:supl1-14 Ja 30 '25; Abstract. Mech Eng 46:701-2 N '24

Brinell indentations. H. Carrington. Engineering 117:618 My 9 '24

Brinell test. Engineer 137:632 Je 6 '24

Comparison of Brinell and Rockwell hardness. S. C. Spalding. Am Mach 61:759-60 N 13 '24

Comparison of Herbert pendulum hardness tester with other hardness testers. J. O. Keller. il Mech Eng 46:818-24 pt 2 N '24; Discussion. 47:282-4 Ap '25

Comparison of methods for testing hardness. H. E. Degler. Am Mach 63:381-4 S 3 '25; Discussion. 63:1038 D 31 '25

Comparison of modified ball-indentation hardness numbers. E. S. Ault. bibliog diags Mech Eng 47:732-4 S '25

Crystal structure of hard steel. K. Heindlhofer. diag Phys R 24:426-38 O '24

Definitions of hardness. C. A. Beckett. Mach 30:503-5 Mr '24

Duration of loading and ball hardness; abstract. R: Mailänder. Mech Eng 47:133-4 F '25

Effect of progressive cold-rolling on the Brinell hardness of copper. H. Moore. Engineering 118:386-7 S 12 '24

Every machine piece given hardness test. L. S. Love. il Iron Age 113:854-6 Mr 20 '24

Experiments on the Brinell-tensile relationship. A. L. Norbury and T. Samuel. Iron & Steel Inst J 109:479-89; Discussion. 490-1 no 1 '24

Foreign progress in cutting metals. C. A. Beckett. il diags Mech Eng 46:618-24 O '24

Hardness and cutting trials of a tool steel. D. Smith and I. Hey. Engineer 137:366-8 Ap 4 '24

Hardness and hardness testing. L. B. Tuckerman. Mech Eng 47:53-5 Ja '25

Hardness governs machinability. J. Ward. il diags Foundry 53:684-7 S 1 '25

Hardness numbers and their relation. H. P. Hollnagel. diags Iron Age 114:1404-6; 115: 770-3 N 27 '24, Mr 12 '25

Hardness of cylinder blocks. il Iron Age 113: 1163 Ap 17 '24

Hardness of electro-deposited iron, nickel, cobalt, and copper. D. J. Macnaughtan. Iron & Steel Inst J 109:409-24, pl 23-5a [bibliog. p. 423-4] no 1 '24; Same cond. Engineering 118:599-600 O 24 '24; Discussion. Iron & Steel Inst J 109:425-31 no 1 '24

Hardness of electro-deposited metals. R. H. Greaves. Engineer 140:sup141-3 S 25 '25

Hardness of metals and hardness testing. Mech Eng 46:360-2 Je '24; Discussion. 46:564 S '24

Hardness of metals and hardness testing. F. E. Cardullo. Mech Eng 46:638-9 O '24

Hardness-testing device. E. B. Nichols. diag Mach 31:678 My '25

Die härteprüfung von gehärteten stählen. R. Mailänder. Stahl & Eisen 45:1769-73 O 22 '25

Herbert pendulum hardness tester. il Chem & Met Eng 31:471 S 22 '24; Automotive Ind 51:488 S 11 '24; Eng & Min J 118:477 S 20 '24

Indentation hardness of metals. K. Honda and K. Takahasi. Iron & Steel Inst J 109: 323-33; Discussion. 334-46 no 1 '24; Abstract with discussion. Engineer 137:566 My 23 '24

Influence of strain and of heat on the hardness of iron and steel. A. Sauveur and D. C. Lee. Engineering 120:433 O 2 '25

Influence of temperature on the work-hardening of metals. E. G. Herbert. diags Engineer 137:356-7 Ap 4 '24

Inspects stock by Brinell test. il Iron Tr R 75:666-7 S 11 '24

Investigations on the Herbert pendulum hardness tester. C. Benedicks and V. Christiansen. diags Iron & Steel Inst J 110:219-38; Discussion. 239-48 no 2 '24

Mechanical and magnetic hardness. K. Heindlhofer. diags Iron Age 116:606-8 S 3 '25

Mechanical meaning of hardness numbers. S. N. Petrenko. Mech Eng 46:926 D '24

Need for cheaper hardness tests. H. L. Whittemore. Mech Eng 47:223-4 Mr '25; Discussion. 47:363 My '25

New method of hardness testing; details of the Herbert pendulum tester. il Automobile Eng 15:114 Ap '25

Pendel-härteprüfer. E: G. Herbert. il Stahl & Eisen 44:855-6 Jl 17 '24

Le pendule Herbert, pour essais de dureté; les conditions de son emploi; ses applications. il Génie Civil 86:560-2 Je 6 '25

Quantitative standards for hardness of the ore minerals. S. B. Talmage. il diags Econ Geol 20:531-53 S '25

Rapid evaluation of Brinell hardness. Engineering 118:486 O 3 '24

Relation between abrasiveness and hardness of carbon brushes. W. C. Kalb. Power 62: 293-4 Ag 25 '25

Relation of hardness to the sequence of the ore minerals. G. Gilbert. Econ Geol 19:668-73 N '24

Report on the effects of adhesion between the indenting tool and the material in ball and cone indentation hardness tests. G. A. Hankins. Engineering 119:556-7 My 1 '25; Same cond. Mech Eng 47:935-6 N '25; Discussion. Engineering 119:552-4, 797-8 My 1, Je 26 '25; Abstract. Engineer 139:483-4 My 1 '25

Rockwell hardness tester for testing automobile cylinder block and other large castings. il Iron Age 116:81 Jl 9 '25; Am Mach 63:290-1 Ag 13 '25

Some notes on the use of a diamond pyramid for hardness testing. R. L. Smith and G. E. Sandland. Iron & Steel Inst J 111: 285-94 no 1 '25; Discussion. 111:295-304 no 1 '25; Engineering 119:633-4 My 22 '25; Engineer 139:566-7 My 22 '25

Some practical aspects of the scratch test for hardness. G. A. Shires. Engineering 119:557 My 1 '25; Abstract. Engineer 139: 483-4 My 1 '25; Discussion. Engineering 119:552-4 My 1 '25; Engineer 140:123 Jl 31 '25

Special hardness comparator. D. A. Hampson. diags Am Mach 61:742 N 6 '24

Stress-strain curves and physical properties pertaining to hardness. H. P. Hollnagel. Mech Eng 47:917-19 N '25

Testing of steel for hardness. H. M. German. Am Mach 59:769-72 N 22 '23

Vickers diamond hardness testing machine. il diag Engineer 138:286-7 S 12 '24

Volumes occupied by the solute atoms in certain metallic solid solutions and their consequent hardening effects. A. L. Norbury. Engineering 116:627 N 16 '23

Work-hardening of metals and the Herbert tester. il Engineer 137:248-9+ Mr 7 '24

Work-hardening of various metals. E: G. Herbert. Iron Age 113:1792-3 Je 19 '24

See also Brinell hardness test; Hardening; Scleroscope; Steel, Hardening of

HARDWARE

Forty years of hardware. S. Norvell. 443p Hardware age, New York '24

Hardware trade. Dun's R 32:9+ F 16; 8-9+ Je 14; 12+ O 11 '24; 33:8-9 F 14; 8-9 Je 13; 10-11 O 10 '25

Helping hardware retailer; jobber's credit man collects monthly reports. H. F. Barker. Credit M 27:20 Ja '25

HARDWARE—*Continued*
Is your sales area limited to a day's journey? C: G. Muller. Ptr Ink 129:105-6+ O 9 '24
Sales and outstanding accounts. Survey of Cur Business 44:27-8 Ap '25
Selling builders' hardware. J: A. Manson. il plan Am Exporter 94:17-18+ My '24
Small town store does away with counters. J: A. Manson. il plan Am Exporter 95:45+ S '24
Store demonstration devices that solve selling problems. W. B. Edwards. il Ptr Ink M 9:43-4+ S '24

See also Cutlery; Files and rasps; Hinges; Locks and keys; *also* Simmons hardware company

Advertising

How we got away from price bickering in selling. F. R. Plumb. Sales Management 6:529-30+ F '24
Planning direct advertising for the hardware trade. R. E. Ramsay. il Inland Ptr 75:561-4 Jl '25
Reaching the neglected eighty per cent of the market; Stanley works of New Britain, Conn. M. Hastings, jr. Ptr Ink 127:25-6+ Ap 10 '24

See also Saws—Advertising

HARDWOOD. See Hard woods

HARKINS, WILLIAM D.
Portrait. Sci Am 130:157 Mr '24

HARMALINE
Harmine and harmaline; the constitution of certain harmaline derivatives. H. Nishikawa, W: H: Perkin, jr. and R. Robinson. Chem Soc J 125:657-63 Mr '24

HARMINE
Harmine and harmaline; a synthesis of *apo*harmine and of certain carboline and copyrine derivatives. W. Lawson, W: H: Perkin, jr. and R. Robinson. Chem Soc J 125: 626-57 Mr '24

HARMONIC analyser
Electric harmonic analyser. J. D. Cockcroft and others. diags Inst E E J 63:69-113 [bibliog. p. 111-13] Ja '25; Abstracts. Elec R (Lond) 95:754-5 N 14 '24; Electrician 93:552 N 14 '24; Discussion. Inst E E J 63:113-19, 231-3 Ja-F '25
Electrical frequency analyzer. R. L. Wegel and C. R. Moore. diags Am Inst E E J 43: 798-802 S '24; Abstract. Electrician 93:408+ O 10 '24
New harmonic analyser. K. Noguchi. il diags Engineering 118:876-7 D 26 '24

HARMONIC analysis
Harmonic analysis of electron orbits. F. C. Hoyt. Phys R 25:174-86 F '25
Practical treatise on Fourier's theorem and harmonic analysis for physicists and engineers. A. Eagle. 178p Longmans '25

See also Bessel's functions; Fourier's series

HARMONICA
Sales jumped when we told buyers how to use our products. E. M. Wickes. Sales Management 7:1457-8+ S '24

HARMONICS (electric waves)
Harmonics due to slot openings. C. A. M. Weber and F. W. Lee. diags Am Inst E E J 43:1129-32 D '24
Inductance and capacity; the effects of harmonics on their apparent values. P. Kemp. Electrician 95:468-9 O 23 '25
Proposes classification of harmonics as "triplen" and "non-triplen." Elec W 83:237, 577 F 2, Mr 22 '24

See also Harmonic analyser

HARNESSES

Advertising

Plan that reversed a farm market's off season. R. C. Breth. Ptr Ink 130:105-6 F 26 '25

HARPER, John Lyell, 1873-1924
Sketch. por Power 60:962 D 9 '24; Mech Eng 47:75 Ja '25

HARRIMAN medal
Harriman memorial medals for accident prevention on railroads. Comm & Fin Chr 120: 3008 Je 13 '25

HARRINGTON, John Lyle, 1868-
Portrait. Mech Eng 46:31 Ja '24

HART, Edward
My fifty-eight years in chemistry. H. W. Wiley. Chem Age 32:447-8 N '24
Professor Hart as a farmer. H. S. van Klooster. por Chem Age 31:520 N '23

HART House. See Toronto. University

HARTFORD, Connecticut

Rapid transit

An hour saved for twenty cents; Hartford and Springfield street railway supplements service with bus lines. il Bus Transportation 4:121-3 Mr '25

Water supply

Operation of slow sand water filters at Hartford, Conn. C. M. Saville. il Eng N 93:508-9 S 25 '24

HARTMAN Interests, inc.
Hartman shale oil process. Chem & Met Eng 32:571-2 Je '25

HARTNESS, James, 1861-
James Hartness elected president of F.A.E.S. por Am Mach 60:120a Ja 17 '24

HARTT, Dudley N.
House of Dudley N. Hartt, Chestnut Hill, Mass. C. L. Churchill. il plans Arch Forum 42:235-8 Ap '25

HARVARD advertising awards
Harvard advertising awards. N. H. Borden. Harvard Business R 3:258-64 Ap '25
How Harvard made its first advertising awards. Ptr Ink 130:61-2+ Ja 29 '25
Rules for 1925 Harvard awards. Ptr Ink 130: 165+ Mr 26 '25

HARVARD economic service
How to measure your market. F. Y. Presley. il System 47:455-9+ Ap '25

HARVARD mercantile health work
Mercantile health work. A. B. Emmons. Nation's Health 6:8-9+ Ja '24

HARVARD school of public health, Boston
Laboratories of ventilation and illumination. P. Drinker. bibliog il diags J Ind Hygiene 6:57-66 Je '24

HARVARD university

Graduate school of business administration

George F. Baker, benefactor of business. J: W. Harrington. Bankers M 109:185-92 Ag '24
George F. Baker's gift of $5,000,000 to Harvard university as a permanent endowment for the Harvard graduate school of business administration. Comm & Fin Chr 118:2785-6 Je 7 '24
Harvard business school competition. il Am Arch 127:69-74 Ja 28 '25

HARVESTING machinery
New devices and methods for harvesting that save labor and costs. E. L. D. Seymour. il Dun's Int R 46:45-9 O '25

HASTINGS, Charles D.
Charles D. Hastings called back to head the Hupp company. O. D. Foster. por Forbes 14:541-4 Ag 1 '24

HASTINGS, Thomas
Master of architecture; degree from Liverpool university. por Am Arch 128:134 Ag 12 '25

HAT makers
Cloth hat and cap makers, Philadelphia; labor agreement. Monthly Labor R 20:567-8 Mr '25
Cloth hat and cap makers, St Paul; labor agreement. Monthly Labor R 20:841 Ap '25
Hat and cap industry, New York city; labor agreement. Monthly Labor R 19:406-8 Ag '24
Ladies' hat frame workers, New York city; agreement. Monthly Labor R 19:1297-9 D '24

HATS

See also Knox hat company

Advertising

Change of pace in copy; how Truly Warner made an overnight shift. R. Crothers. Ptr Ink 129:89-90+ O 9 '24

How the short season product may be advertised. Ptr Ink 131:44 Ap 9 '25

Why we began advertising after a century of selling. E. V. Connett. Sales Management 7: 1711-12 N '24

Manufacture

Dyeing felt hats. F: Grove-Palmer. Am Dyestuff Rep 13:829 D 15 '24

Dyeing wool and hair hats. J. S. Heuthwaite. Textile World 66:1119+, 1691+ Ag 30, S 27 '24

Why is a hat lining? M. E. Crain. Textile World 68:2622+ O 31 '25

HAULAGE

Asphalt macadam construction with trailers and tractor. W. C. Patrick. il Eng N 92: 76-7 Ja 10 '24

Clay plant hauling equipments. B. F. Townsley. Brick & Clay Rec 65:30 Jl 8 '24

Combination haul on road job; Niles-Ashtabula road. il Eng & Contr (R & S) 63:225-8 F 4 '25; Pub Works 56:60-1 F '25

Combined haulage in Ohio road work. il Pub Works 56:16-17 Ja '25; Eng & Contr (R & S) 63:481-3 Mr 4 '25

Commercialized motor-truck haulage. J. A. Hoffman and W. F. Banks. il Soc Auto Eng J 16:62-71; Discussion. 71-2 Ja '25

Concrete road built with combination haul plant. il Concrete 26:205-6 Je '25

Where the load carries the trailer. il Sci Am 130:399 Je '24

See also Conveying machinery; Dump cars; Dumping appliances; Electric trucks; Loading and unloading; Locomotives; Mine haulage; Motor truck trailers; Motor trucks; Motor trucks in construction work; Motor trucks in freight service; Petroleum—Transportation; Railroads, Industrial; Snow motor; Tractors

Cost

Problem of delivery equipment; baking industry. W. Eldred. Management & Adm 8:599-604 D '24

See also Motor trucks—Cost of operation

HAVANA, Cuba

Harbor

Havana's waterfront. il Prof Eng 9:10 Ja '24

HAVANA electric railway light and power company

Abstracts from twelfth annual report, 1923. Comm & Fin Chr 118:2456-7 My 17 '24; Excerpt. Elec Ry J 63:794 My 17 '24

Abstracts from thirteenth annual report for the year ended December 31, 1924. Comm & Fin Chr 120:2426-7 My 9 '25

Net earnings in Havana decrease. Elec Ry J 65:871 My 30 '25

HAVRE, France

Harbor

New dry dock at Havre. diags plans Engineer 137:662-3 Je 13 '24; Eng & Contr (Ry) 62: 1337-42 D 17 '24

Les travaux d'agrandissement du port du Havre. C: Dantin. il diags plan Génie Civil 84:369-74, 393-9, pl 5 Ap 19-26 '24

Les travaux d'extension du port du Havre. M. Michel-Schmidt. diags map (supp) Soc Ing Civils Bul 77:433-515, pl 74-5 Jl '24

HAWAIIAN Islands

See Building trades—Hawaiian Islands; Gas industry—Hawaiian Islands; Irrigation—Hawaiian Islands; Labor and laboring classes—Hawaiian Islands; Roads—Hawaiian Islands; Water supply—Hawaiian Islands

HAWSE pipes

Cast Leviathan's large steel hawse pipe. il diags Foundry 52:381-4 My 15 '24

HAWSERS. See Rope

HAY

Electricity in agriculture; artificial crop drying as a power load. H. A. Carney. il diag Elec R (Lond) 96:926-8 Je 12 '25

Hay pays half maintenance cost of Yazoo levee district. C. W. Littlejohn. il Eng N 93:557 O 2 '24

HAYES wheel company

Annual report, 16th, for the fiscal year ended Dec. 31, 1924. Comm & Fin Chr 120:2308 My 2 '25

HAYNES, Elwood G., 1858-1925

How Elwood Haynes came to build first horseless carriage. O. D. Foster. por il Forbes 15:679-82 Mr 1 '25

Sketch. por Automotive Ind 52:694-5 Ap 16 '25; Am Ind 25:41-3 My '25

HAYNES, Frederick J.

Man who runs Dodge—and how he does it. B. C. Forbes. por Forbes 17:9-11+ N 1 '25

HAYTI. See Haiti

HEADACHE

Health building for professional advancement. H. N. Bundesen. Prof Eng 10:24+ Je '25

HEADING machines

Ajax continuous motion header. il Iron Age 114:1667-8 D 25 '24; Mach 31:398-9 Ja '25; Blast F & Steel Pl 13:107 F '25

Double-stroke crank headers. il Iron Age 114: 925-6 O 9 '24

Forming hook-bolts on an automatic heading machine. A. L. Greene. il Mach 32:11 S '25

HEADLIGHTS

Desirable road-illumination. C. A. Michel. il diags Soc Auto Eng J 14:511-15 My '24

See also Automobiles—Lighting; Locomotive headlights

HEADLINES. See Advertisements—Headlines

HEADWALLS. See Culverts

HEADWAY recorders. See Street railroads—Headway recorders

HEALTH

Sound health and the swivel chair. R. E. Sunderland. Ind Management 67:138-9 Mr '24

See also Hygiene; Public health

HEALTH and accident underwriters conference

Health and accident underwriters conference. E. C. Budlong. Spectator 113:35-6 sec 2 Jl 17 '24

HEALTH centers

Blossom Street health unit. C: F. Wilinsky. Nation's Health 6:397-8+ Je '24

Defining the health center. C: F. Wilinsky. Nation's Health 6:323-4+ My '24

Rural health centers in Wisconsin. C. S. Allen. il Nation's Health 6:395-6 Je '24

Teaching medical students newer public health work at Dalhousie university, Halifax, Nova Scotia. W. H. Hattie. il plan Nation's Health 6:408-9 Je '24

HEALTH departments

Housing the health department. I. V. Hiscock. il Nation's Health 7:86-8 F '25

Public opinion and the health department budget. J: L. Rice. Nation's Health 7:188-9 Mr '25

Rural health in North Carolina. C. W. Armstrong. il Nation's Health 7:392-4 Je '25

See also Nurses and nursing, Public health

Costs

Cost of health service. Nation's Health 6:622 S '24

HEALTH insurance. See Insurance, Health

HEALTH officers
Full-time county health officers. Eng N 95: 127 Jl 23 '25
Salary and tenure of office of city health officers. M. Nicoll, jr. Nation's Health 6:22-3 Ja '24

See also Public health

HEALTH service. See Medical service, Industrial

HEARING
Auditory masking of one pure tone by another and its probable relation to the dynamics of the inner ear. R. L. Wegel and C. E. Lane. diags Phys R 23:266-85 F '24
Automobile-noise measurement. H. C. Snook. il diags Soc Auto Eng J 17:115-24 [bibliog. p. 124] Jl '25; Discussion. 17:617-19 D '25
Binaural beats. C. E. Lane. Phys R 26: 401-12 S '25
Critical frequency of pulsation of tones. F. Allen. Philos Mag 6th ser 47:941-4 My '24
Critical frequency of pulsation of tones. M. Weinberg and F. Allen. diag Philos Mag 6th ser 47:50-62 Ja '24
Effect of aural fatigue upon the critical frequency of pulsation of tones. M. Weinberg and F. Allen. diags Philos Mag 6th ser 47: 126-41 Ja '24
Effect of fatiguing the ear with combinations of two or more tones. M. Weinberg. diags Philos Mag 6th ser 47:141-51 Ja '24
Effect of noises on the hearing of workmen. Monthly Labor R 20:1133-5 My '25
Hearing. R. M. Ogden. 351p Harcourt '24
Interfering effect of tones and noise upon speech reception. V. O. Knudsen. Phys R 26:133-8 Jl '25
Nature of language; a resumé of recent work on the physics of speech and hearing. R. L. Jones. bibliog Am Inst E E J 43:321-8 Ap '24
Sound reception as applied to air defence. W. S. Tucker. il diags Roy Aeronautical Soc J 28:504-15; Discussion. 521-5 Ag '24
Trained ears as an asset to industry. il Iron Age 114:312-13 Ag 7 '24
What are the sounds that insects hear? S. F. Aaron. il Sci Am 132:390-1 Je '25

See also Ear

HEART
Human heart as an engine. Sci Am 131:374+ N '24

Diseases
Cardiac disease in children one of greatest causes of death. H. A. Bachmann. il Nation's Health 7:559-60 Ag '25
Examination of the heart in industry. N. C. Gilbert. bibliog J Ind Hygiene 7:105-12 Mr '25
Industrial aspects of heart disease. M. Lincoln. bibliog J Ind Hygiene 6:1-13 My '24
Providing convalescent care for the cardiac child. A. Levinson. il Nation's Health 6:523-4+ Ag '24
Social factors in diagnosis and treatment of heart disease. W. W. Hamburger. Nation's Health 6:593-4 S '24

HEAT
Back to first principles. T. W. Reynolds. diags Heat & Ven 21:55-7 Je '24
Catechism of central station gas engineering in the United States. Am Gas J 122:211-15 Mr 7 '25
Facts for furnacemen and others. T: Newton. Sheet Metal Worker 16:554-5+ Ag 28 '25
Fluchtlinientafel für die erwarmungsfunktion. Schwerdt. Elektrotech Zeit 45:1435-6 D 25 '24
Eine graphische methode zur lösung von erwärmungsaufgaben. J. Hak. Elektrotech Zeit 45:235-8 Mr 20 '24
Heat and change of state. il Am Gas J 122: 227-8, 251-2, 269, 289-90, 311, 333, 353, 373, 395-6, 419, 443, 465, 487, 507, 527-8, 547; 123: 6-8, 27, 49, 73, 99, 119, 141, 159-60, 179-80, 201-2, 225, 247, 267-8, 287, 491-2, 513, 531-2, 551, 569-70, 591-2, 617-18 Mr 14-O 3, 24-D 5 '25
Heat and energy. D. R. Pye. 211p Oxford '23
Heat balance of Bureau of mines experimental blast furnace. P. H. Royster, T. L. Joseph and S. P. Kinney. Blast F & Steel Pl 12:200-4 Ap '24
Industrial gas lessons. diags Am Gas J 120:7-8, 31-2, 55-6, 71-2 Ja 5-26 '24
Industrial physics; heat. L: R. Smith. 283p McGraw-Hill '24
La loi de la compression de la chaleur et l'économie de combustible dans les hauts fourneaux. A. Korevaar. diags Chimie & Ind 11:642-50 Ap '24
Nature of heat. A. W. Barnes. Dom Eng 113:26+ N 7; 24+ N 21; 35+ D 5 '25
Problem of heat economy in the ceramic industry. W. M. Cohn. il diags Am Cer Soc J 7:359-76, 475-88 My-Je '24
Relation between heat and temperature. diags Power Pl Eng 28:348-9 Mr 15 '24
Thermal reactions of coal during carbonization. J. D. Davis and P. B. Palce. diag Ind & Eng Chem 16:589-92 Je '24

See also Atmospheric temperature; Boiling points; Calorimeters and calorimetry; Combustion; Evaporation; Expansion (heat); Flame propagation; Heat units; Heating; Insulation (heat); Latent heat; Melting points; Pyrometers and pyrometry; Quenching; Specific heat; Steam; Temperature; Thawing; Thermochemistry; Thermodynamics; Thermoelectricity; Thermomagnetism; Thermometers and thermometry; Waste heat

Physiological effect

See Temperature—Physiological effect

Terminology
Report of progress of committee number 20, on the standardization of technical nomenclature. Eng Educ 14:135-9 N '23; Discussion. E. MacNaughton. 14:480-2 Ap '24

HEAT, Atmospheric. See Atmospheric temperature

HEAT as a disinfectant
Sterilisation par la chaleur d'un milieu de culture contenu dans un récipient hermétiquement clos. E. Lasausse. Chimie & Ind 11:635-41 Ap '24

HEAT conduction
Calculation of heat conduction. Am Gas J 120: 367-8 Ap 19 '24
Kinetic theory of viscosity, conduction, and diffusion. S. Chapman and W. Hainsworth. Philos Mag 6th ser 48:593-607 S '24
Mathematical equations for heat conduction in the fins of air-cooled engines. D. R. Harper and W. B. Brown. U S Nat Advisory Com for Aeronautics 1922:677-708 '23

HEAT conductivity
Conductivity and specific heat of refractories at high temperatures. M. D. Hersey and E: W. Butzler. U S Bur Mines Rep of Invest 2564:1-7 Ja '24 (typew)
Effect of light on the thermal conductivity of selenium. R. E. Martin. diags Phys R 26:475-85 O '25
Fundamental principles of multiple effect evaporation. H. K. Moore. Chem & Met Eng 29:1144-7, 1190-2 D 24-31 '23
Heat losses through insulating materials. R. H. Heilman. Mech Eng 46:593-602; Discussion. 602-6 O '24
Improved method of determining the heat transfer through wall, floor, and roof sections. R. F. Norris, H. H. Germond, and C. M. Tuttle. diag Am Soc Heat & V E J 30:109-14 F '24
Influence of texture on the transmission of heat through firebricks. A. T. Green. bibliog diags Gas J (Lond) 167:sup31-6 Jl 9 '24
New application of the bar method for the measurement of thermal conductivity. M. D. O'Day. diags Phys R 23:245-54 F '24
Results of tests to determine heat conductivity of various materials. C: H. Herter. Refrig Eng 10:256-80 Ja '24
Some new methods for the measurement of thermal conductivity. T. Barratt and R. M. Winter. Philos Mag 6th ser 49:313-22 F '25
Thermal conductivities of industrial non-ferrous alloys. J. W. Donaldson. diag Engineering 120:311-12 S 4 '25

HEAT conductivity—*Continued*
Thermal conductivities of some refractory materials. il diag Am Cer Soc J 7:19-28 Ja '24; Discussion. J. S. McDowell. (Bul) 7:345-6 S '24
Thermal conductivity and compressibility of several rocks under high pressures. P. W. Bridgman. bibliog diag Am J Sci 5th ser 7:81-102 F '24
Thermal-conductivity method for the analysis of gases. P. E. Palmer and E. R. Weaver. il charts diags U S Bur Stand Tech Pa 249: 35-100 '24
Thermal conductivity of bismuth in a transverse magnetic field. F. A. Ward. diags Philos Mag 6th ser 48:971-7 N '24
Thermal conductivity of carborundum refractories. M. L. Hartmann and O. B. Westmont. il diags Am Cer Soc J 8:259-86 My '25; Same cond. Am Electrochem Soc Trans v 46 (preprint 21):287-311 O '24; Abstract. Foundry 53:219-20 Mr 15 '25; Same. Iron Tr R 76:822 Mr 26 '25; Discussion. Am Cer Soc J 8:286-95 My '25
Thermal conductivity of solid electric insulators. W. M. Thornton. Philos Mag 6th ser 48:1054-6 D '24

See also Heat transmission

HEAT convection
Calculation of radiation and convection heat losses. Am Gas J 120:591-2 Je 28 '24
Convection of heat. Am Gas J 120:387-8, 411-12 Ap 26-My 3 '24
Convective cooling in liquids—some thermal conductivity data. A. H. Davis. Philos Mag 6th ser 47:972-5 My '24
Convective cooling of wires in streams of viscous liquids. A. H. Davis. diags Philos Mag 6th ser 47:1057-92 Je '24
Étude sur l'effet de film et l'influence des vibrations des parois sur la transmission de la chaleur par convection. C. Roszak and M. Véron. diags plan Soc Ing Civils Bul 78:584-618, pl 96 Jl '25
Forced convection of heat in gases and liquids. C. W. Rice. Ind & Eng Chem 16: 460-7 My '24
Free and forced convection of heat in gases and liquids. C. W. Rice. Am Inst E E J 42:1288-9 D '23; Discussion. 42:1289-93; 43: 1064-5 D '23, N '24
Free convection of heat in liquids. R. A. Nelson. il diags Phys R 23:94-103 Ja '24
Heat and air. T: Newton. Sheet Metal Worker 15:209-10+ Ap 11 '24
Some experiments on the convection of heat in vertical water columns. H. H. Poole. J Fr Inst 198:515-16 O '24
Temperature rise of stationary electrical apparatus as influenced by radiation, convection and altitude. V. M. Montsinger and W. H. Cooney. il diags Am Inst E E J 43:803-12 S '24; Discussion. 44:283-8 Mr '25

HEAT engines
Carnot's influence upon engineering. W: L. Emmet. Mech Eng 47:39-40 Ja '25
Heat engines, steam, gas, steam turbines and their auxiliaries. J: R. Allen and J. A. Bursley. 3d ed. 422p McGraw-Hill '25
Prime movers compared. J. B. Rathbun. Pet Age 16:57, 59 Ag 15; 57 S 1 '25

See also Carnot's principle; Gas and oil engines; Steam engines; Steam turbines

HEAT exchangers
Economic features of heat-exchanger design. F. L. Maker and M. W. Thornburg. Mech Eng 46:891-5 D '24
Tests on a heat exchanger for domestic water supply. J. Harrington. diags Heat & Ven 22:66-8 Ap '25
What is accomplished by modern heat exchange equipment. G: A. Burrell. Chem & Met Eng 30:436-9 Mr 17 '24

HEAT interchangers
Improvements in Casale process for ammonia synthesis. diag Chem & Met Eng 30:198 F 4 '24

HEAT measurement
Heat machine; Nicholls heat flow meter. il Dom Eng 111:37-8, Ap 18 '25

See also Calorimeters and calorimetry; Heat units; Pyrometers and pyrometry; Thermometers and thermometry

HEAT of adsorption. See Adsorption, Heat of
HEAT of crystallization. See Crystallization, Heat of
HEAT of dissociation. See Dissociation, Heat of
HEAT of fusion. See Fusion, Heat of
HEAT of mixing. See Mixing, Heat of
HEAT of oxidation. See Oxidation, Heat of
HEAT of solution. See Solution, Heat of
HEAT of sublimation. See Sublimation, Heat of
HEAT of vaporization. See Vaporization, Heat of
HEAT of wetting. See Wetting, Heat of

HEAT radiation
Calculation of radiation and convection heat losses. Am Gas J 120:591-2 Je 28 '24
Comparative costs and heat emission for cast-iron direct radiation. T. W. Reynolds. Heat & Ven 21:41-5 O '24
Emissive tests of paints for decreasing or increasing heat radiation from surfaces. W. W. Coblentz and C. W. Hughes. diag U S Bur Stand Tech Pa 254:171-87 '24; Abstract. Am Arch 128:135-9 Ag 12 '25
Movement towards a standard radiation formula. plan Heat & Ven 21:49-51 O '24
Neuere erkenntnisse auf dem gebiete der wärmestrahlung. A. Schack. Zeit Ver Deutsch Ing 68:1017-20 S 27 '24; Same (New data on heat radiation). Mech Eng 47:41-4 Ja '25
New radiation tables. diag Dom Eng 109:25-6 N 1 '24
Radiating values of colors. T. W. Reynolds. Heat & Ven 20:41-2 N '23; Same. Gas Age 55:837-8 Je 13 '25
Radiation characteristics of the internal-combustion engine. T. Midgley, jr. and H. H. McCarty. il diag Soc Auto Eng J 14:182-5 F '24; Abstract. Automotive Ind 50:232-3 Ja 31 '24
Radiation computing—the Reynolds tables. Heat & Ven 22:101-4 My '25
Radiation in the pulverized-fuel furnace. W. J. Wohlenberg and D. G. Morrow. Mech Eng 47:627-32 Ag '25; Abstract. Power Pl Eng 29:583-5 Je 1 '25; Discussion. Mech Eng 47:636 Ag '25
Radiation of heat. Am Gas J 120:435-6, 527-8, 549-50, 571-2 My 10, Je 7-21 '24
Reflection from a stoker arch. R. C. Warner. il diags Power 59:367 Mr 4 '24
Temperature rise of stationary electrical apparatus as influenced by radiation, convection and altitude. V. M. Montsinger and W. H. Cooney. il diags Am Inst E E J 43:803-12 S '24; Discussion. 44:283-8 Mr '25

See also Heating—Tables, calculations, etc.; Radiators

HEAT regulators. See Temperature—Regulation

HEAT transmission
Application of heat transmission principles. diag Am Gas J 121:615-16 Jl 5 '24
Behavior of heat. Am Arch 124:77 N 21 '23
Box method for determining heat transmission. A. J. Wood. il diags Refrig Eng 10: 172-9 N '23
Calculating radiation requirements of residences. diags Heat & Ven 22:66-71 Mr '25
Condenser unit heat transfer obtained from chart. H. O. Michael. Power 59:488-9 Mr 25 '24
Effects of surface film on heat transfer; abstract. W. L. Badger. Chem & Met Eng 30: 1029 Je 30 '24
Die einführung eines formwertes bei wärmetauschern. H. Preussler. Stahl & Eisen 45:1705-9 O 8 '25
Die erwärmung und abkühlung einfacher geometrischer körper. H. Gröber. diags Zeit Ver Deutsch Ing 69:705-11 My 23 '25

HEAT transmission—*Continued*

Étude expérimentale de la transmission de la chaleur par quelques matériaux de construction, faite à l'Université de Lausanne. Génie Civil 84:43-4 Ja 12 '24

Film concept of heat transmission applied to a commercial water heater. D. K. Dean. Ind & Eng Chem 16:479-83 My '24; Abstract. Mech Eng 46:350-1 Je '24

Flow of liquids; some factors influencing friction, velocity distribution and heat transmission. W. H. McAdams. bibliog il charts Refrig Eng 11:279-88; Discussion. 288+ F '25

Fluid friction and heat transference. T: B. Morley. Engineer 137:596-7 My 30 '24; Discussion. G: T. Pardoe. 137:628 Je 6 '24

Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 120:427-9, 443-7 My 10 '24

Fundamental principles in water circulation. A. W. Barnes. diags Dom Eng 113:23-4+ O 31 '25

Fundamentals of heat flow in molten glass and in walls for use against glass. G: V. McCauley. il Am Cer Soc J 8:493-504 Ag '25

Getting acquainted with B.t.u.'s. diags Sheet Metal Worker 15:116-18, 162-4+ Mr 14-28 '24; Same. Sanitary & Heat Eng 101:272-4, 311-13+ My 2-16 '24

Heat dissipation from the surfaces of pipes and cylinders in an air current. A. H. Gibson. Philos Mag 6th ser 47:324-36 F '24

Heat emission from heating surfaces of furnace. A. P. Kratz. diag Am Soc Heat & V E J 30:29-33 Ja '24; Discussion. 30:263-4 Mr '24

Heat loss through wall constructions. A. Kolflaath. il diags Am Soc Heat & V E J 30: 627-43, 661-8 S-O '24

Heat losses from boiler furnace walls. L. B. McMillan. Power Pl Eng 29:944-6 S 15 '25

Heat machine. il Dom Eng 111:37-8 Ap 18 '25

Heat transfer for water flowing inside pipes. W. H. McAdams and T. H. Frost. Refrig Eng 10:323-32 Mr '24; Abstracts. Chem & Met Eng 30:234-7 F 11 '24; Power 58:1005 D 18 '23; Discussion. Refrig Eng 10:332-4 Mr '24

Heat transfer in ammonia condensers. Power 59:919 Je 3 '24

Heat transfer in brine hold-over tanks. C: H. Herter. Power 59:563-5 Ap 8 '24

Heat transfer in enamel-lined apparatus. E. P. Poste. Ind & Eng Chem 16:469-70 My '24

Heat transfer in small pipes. F. C. Blake and W. A. Peters, jr. diags Ind & Eng Chem 16:845-6 Ag '24

Heat transfer in steam-jacketed evaporators. H. L. Olin, M. H. Dowell and C. M. Toynbee. diags Am Inst Chem Eng Trans v 16 pt 1:87-99 '24; Same. Chem & Met Eng 31: 116-19 Jl 21 '24

Heat transfer symposium. Chem & Met Eng 30:661-5 Ap 28 '24

Heat transfer through turbulent gas flow. L. R. Stowe. diags Power 59:425-6 Mr 11 '24; Abstract. Gas Age 53:721-2 My 24 '24

Heat transfer vs. agitation. D: E. Pierce and P. B. Terry. Chem & Met Eng 30:872-3 Je 2 '24

Heat transmission from bare and insulated pipes. R. H. Heilman. Ind & Eng Chem 16: 451-8 My '24; Abstracts. Mech Eng 46:349 Je '24; Power Pl Eng 28:742-5 Jl 15 '24

Heat transmission from pipe coils for varied sizes of pipe and heating systems. T. W. Reynolds. Heat & Ven 22:88-9 F '25

Heat transmission in an inclined rapid circulation type vacuum evaporator. D. J. Van Marle. diag Ind & Eng Chem 16:458-9 My '24; Abstracts. Chem & Met Eng 30:663-4 Ap 28 '24; Mech Eng 46:349-50 Je '24

Heat transmission in coolers, heaters, and condensers. B. Heastie. diags Soc Chem Ind J 42:443-55 N 23 '23

Heat transmission in jacketed kettles; a comparative study of over-all coefficients of heat transmission in cast-iron, lead-lined and copper steam-jacketed kettles. H. L. Olin, B. S. Southwick and H. M. Prince. il Chem & Met Eng 32:370-2 Mr '25

Heat transmission through building materials. il Dom Eng 110:40+ Ja 3 '25

Heat transmission through dwelling house walls; results of tests conducted by the Norwegian government. il diags Am Arch 126:299-306 S 24 '24; Abstract. Sanitary & Heat Eng 102:323-4 O 31 '24

Heating buildings of large areas and high roofs. W: W. Gaylord. diag Heat & Ven 22:66-8 O '25

Der heutige stand der erkenntnis des wärmeübergangs durch gase. H. Lent. Stahl & Eisen 45:938-40 Je 11 '25; Abstract (Present state of knowledge as to heat transfer in gases). Mech Eng 47:747-8 S '25; Same. Gas Age 56:423-4 S 26 '25

Home-study course in gravity steam and water heating. Heat & Ven 21:50-8 N; 48-53 D '24; 22:52-6+ Ja; 57-62 F; 54-8 Mr '25

How heat transmission of cast-iron radiators varies due to varying temperature differences. E. Schmidt. Heat & Ven 22:52-3 Je '25

Loss of heat from furnace walls. R. Calvert and L. Caldwell. bibliog il diags Ind & Eng Chem 16:483-90 My '24; Abstract. Mech Eng 46:351-2 Je '24

Measuring heat transmission in building structures and a heat transmission meter. P. Nicholls. il diags Am Soc Heat & V E J 30:35-70 Ja '24; Abstract. Mech Eng 46:289-90 My '24; Abstract. Ind & Eng Chem 16: 490-3 My '24; Discussion. Am Soc Heat & V E J 30:264-7 Mr '24

New data on radiator finishes and their effect on heat transmission. W: H. Severns. il diag Heat & Ven 22:51-3 F '25; Same. Sanitary & Heat Eng 103:321-2+ My 15 '25

New rules for figuring effect of wind on heat losses from buildings. A. C. Willard. diags Heat & Ven 21:57-9 Ag '24

Notes on heat transmission. D. M'Kerracher. Gas J (Lond) 164:778-9 D 19 '23

Optimum operating conditions for pipe heating and cooling equipment. W. K. Lewis, J. T. Ward and E. Voss. Ind & Eng Chem 16:467-8 My '24

Practical applications of the heat flow meter. P. Nicholls. Am Soc Heat & V E J 30:439-51 Je '24

Radiator finishes; effect of different finishes on heat transmission. Heat & Ven 22:99 Ag '25

Rate of heat transmission from the working fluid in an internal combustion engine. A. H. Gibson. Philos Mag 6th ser 47:883-95 My '24

Report of conference on heat transfer through wall structures. Refrig Eng 10:194-5 N '23

Research in heat transmission. E. Buckingham. Mech Eng 46:386-8 Jl '24; Same. Refrig Eng 11:91-4 S '24; Abstract. Power 59:952 Je 10 '24

Simple method of computing roof losses. H. C. Russell. Heat & Ven 22:93-4 Jl '25

Solving heat transfer problems graphically. J: A. Potter, jr. Chem & Met Eng 32:690-1 Ag '25

Some principles underlying the successful use of metals at high temperatures. F. A. Fahrenwald. il Am Soc T M Pro 24 pt 2:310-47 '24

Some things to know about heat. T: Newton. Sheet Metal Worker 16:645-6 O 9 '25

Surface transfer of heat. T. S. Taylor. Refrig Eng 10:179-93 N '23

Thermal diffusivity and conductivity of some soil materials. L. R. Ingersoll and O. A. Koepp. Phys R 24:92-3 Jl '24

Thermal research as a guide to engineering practice. H. C. Dickinson. Am Inst Chem Eng Trans v 15 pt 2:134-7 '23

Thermal testing box for determining the heat transmission of building material. diags Dom Eng 110:31-2 F 14 '25

Transmission of heat. Am Gas J 120:315-16, 343-4 Ap 5-12 '24
Transmission of heat. A. W. Barnes. il diags Dom Eng 112:26+ S 19 '25
Transmission of heat through building materials. F. B: Rowley. Minn U Eng Exp Sta Bul 3:1-74 '23
Der wärmeübergang an kondensatorrohren. M. Jakob. Zeit Ver Deutsch Ing 68:423-4 Ap 26 '24
Der wärmeübergang bie kondensierendem heissdampf. W. Stender. diags Zeit Ver Deutsch Ing 69:905-9 Jl 4 '25
Would copper tubes transmit more heat? diags Power 61:708-9 My 5 '25
Zur theorie und berechnung der winderhitzer. H. Gröber. Stahl & Eisen 44:33-9 Ja 10 '24

See also Heat conduction; Heat conductivity; Heat convection; Heat exchangers; Heat radiation; Insulation (heat); Radiators—Testing

Bibliography

Heat transmission. A. A. Slobod. Special Lib 16:204-5 Je '25

HEAT treatment

Breakage of air compressor valves reduced by tempering. H. E. Barr. Am Mach 60: 612 Ap 24 '24
Casting and heat treatment of some aluminum-copper-magnesium alloys. S: Daniels, A. J. Lyon and J. B. Johnson. Brass W 20: 427-9; 21:9-12 D '24-Ja '25
Complete operation of a practical cost system. A. H. Gibson. Factory 32:170-2+ F '24
Continuous heat-treating furnaces. H. M. Groff. diags Mach 31:10-12 S '24
Effect of heat treatment on the photo-electric emission from platinum. F. G. Tucker. diag Phys R 22:574-81 D '23
Effect of temperature upon metals. E. G. Jarvis. Metal Ind 22:446-7 N '24
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 121:1173-4+, 1261-2+; 122: 45-6+, 135-6+, 265-6+, 349-50+, 389-91+, 481-2+; 123:1-2+, 89-91+, 215-16+, 483-4+, 563-4+ N 15, D 13 '24, Ja 17, F 14, Mr 28, Ap 25, My 9, Je 6, Jl 4, Ag 1, S 12, O 24, N 21 '25
Fuel, wages, repairs, spoilage, the four directions in which pyrometers brought savings. J. G: Morgan. il Factory 35:580+ O '25
Gas in industry; heat treating with manufactured gas in England's midland industries. C. M. Walter. il Gas Age 54:718+ N 15 '24
Heat treating analysis methods are advanced. R. T. Bayless. il Iron Tr R 76:30-1 Ja 1 '25
Heat-treating automatically. il Am Mach 60: 320-2 F 28 '24
Heat treating malleable castings prior to galvanizing. M. Epstein. il diag Foundry 53:741-2 S 15 '25
Heat-treating metal with steam. Power 58: 815, 1038 N 20, D 25 '23
Heat treatment of cast iron. J. W. Donaldson. Iron Age 113:1859-61 Je 26 '24
Heat treatment of duralumin castings. Engineer 139:sup60-1 Ap 24 '25
Heat treatment of gray cast iron. J. W. Bolton. il Iron Age 114:820-2 O 2 '24
High-temperature growth of special cast irons. J. H. Andrew and H. Hyman. Iron & Steel Inst J 109:451-60, pl 27-8; Discussion. 461-3 no 1 '24
Industrial gas association of N.E. discusses heat treating. Gas Age 55:724+ My 16 '25
Liquid heating media. A. E. Bellis. Gas Age 55:430+ Mr 21 '25
Modernizes heat treating shop; Gleason works, Rochester, N.Y. E. F. Ross. il plan Iron Tr R 74:541-5 F 21 '24
New furnaces of continuous type installed to raise quality and production. il Brass W 21: 79-81 Mr '25
New researches on various nickel brasses and their thermal treatments. L. Guillet. Engineer 140:sup157-9 O 30 '25
Orientation of crystals in metal test-pieces subjected to small strains followed by heat-treatment. C. F. Elam. Philos Mag 6th ser 50:517-20 S '25
Radical change in the heat treatment of cast iron. R: W. Edmonds. Manuf Rec 85:105-6 Ap 3 '24
Release of internal stresses by heating. M. Polany and G. Sachs. Engineer 140:sup149 O 30 '25
Les traitements thermiques de certains laitons au nickel. L. Guillet. Génie Civil 86: 489 My 16 '25
Value of salt baths for heat treating; abstract. C. B. Bellis. Mech Eng 46:95 F '24
Wärmebehandlung von gusseisen. E. Schüz. Stahl & Eisen 45:841-2 My 28 '25

See also Annealing; Electric furnaces, Heat treating; Furnaces, Heat treating; Steel, Heat treatment of; Tempering; Wire annealing machine

Terminology

See Steel, Heat treatment of—Terminology

HEAT treatment of steel. See Steel, Heat treatment of

HEAT units

Catechism of central station gas engineering in the United States. Am Gas J 122:211-15 Mr 7 '25
Change of state. Am Gas J 121:1223-4, 1243-4 N 29-D 6 '24
Degree-day, a new heat term. Eng & Contr (Bldgs) 64:188 Jl 22 '25
Das deutsche gesetz über die temperaturskale und die wärmeeinheit. M. Jakob. Zeit Ver Deutsch Ing 68:1176-8 N 8 '24; Abstract. Mech Eng 47:134 F '25
Getting acquainted with B.t.u.'s. diags Sheet Metal Worker 15:116-18, 162-4+ Mr 14-28 '24; Same. Sanitary & Heat Eng 101:272-4, 311-13+ My 2-16 '24
How and how not to use the iso-degree-day chart. map Heat & Ven 22:49-51 N '25
Iso-degree-day chart. P. E. Fansler. chart Heat & Ven 22:73, 98a S '25
Iso-gas-consumption chart. Heat & Ven 22: supp O '25
Temperature-time conversion to degree—days. Heat & Ven 22:85-8 Je '25

HEATERS

Aerofin, the new non-corrosive air heater. il diags Heat & Ven 20:53-4 N '23
Heat transmission in coolers, heaters, and condensers. B. Heastie. diags Soc Chem Ind J 42:443-55 N 23 '23
Oehm heating unit. Mech Eng 47:204 Mr '25
Specifications for unit heaters. plan Textile World 67:3161+ My 9 '25
Trend in the unit heater field. A. H. Greene. il diag Heat & Ven 21:55-7 Mr '24
Unit heater installation. J. Mackay. plans diag Dom Eng 112:29-30+ Ag 15 '25
Unit heaters. il Management & Adm 8:533-4 N '24
Unit heaters for unit-built schools. il Sheet Metal Worker 15:967+ Ja 2 '25

See also Air heaters; Electric heaters; Electric water heaters; Feed water heaters; Gas heaters; Gas water heaters; Oil heaters; Steam heaters; Water heaters

Testing

Proposed method for comparison of effectiveness of indirect heating surfaces. A. E. Stacey, jr. and C. M. Ashley. il Am Soc Heat & V E J 31:327-35 Je '25; Same cond. Heat & Ven 22:65-7 Jl '25; Discussion. Am Soc Heat & V E J 31:423-5 Ag '25

HEATING

American society of heating and ventilating engineers guide, 1924-25. 458p v.3 American soc. of heating and ventilating engineers, 29 W. 39th st., New York '24
British fuel research board reports on heating of rooms. A. C. Blackall. Heat & Ven 22: 71 Ag '25
Data sheets for use under Wisconsin code. R. A. Small. Heat & Ven 22:49-52 Jl '25
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 120:187-9+, 333-7, 427-9, 443-7, 565-6, 580-2 Mr 1, Ap 12, My 10, Je 21 '24

HEATING—*Continued*
Heat utilization committee report. Heat & Ven 22:71-2 Je '25
Heating and ventilating. A. H. Barker. Can Eng 48:638 Je 30 '25
Heating buildings of large areas and high roofs. W: W. Gaylord. diag Heat & Ven 22:66-8 O '25
Heating by radiant energy; bell-shaped generators at ceiling. W. M. Meacham. diag Am Soc Heat & V E J 29:587-90 O '23
Heating homes without basements. C: L. Hubbard. diags Bldg Age 46:191 N; 149 D '24; 47:132 Ja '25
Heating systems for cottages and bungalows. A. G. King. diags plans Dom Eng 105:8-12, 110-14, 316-19 O 6, 20, N 17 '23
Home-study course in gravity steam and water heating. Heat & Ven 21:50-8 N; 48-53 D '24; 22:52-6+ Ja; 57-62 F; 54-8 Mr; 58-65+ Ap; 61-8 My; 57-62 Je; 53-60 Jl; 57-62+ Ag; 75-81 S; 62-5 O; 60-2 N; 54-9 D '25
House heating. M. W. Fishenden. 296p H. F. & G. Witherby, London '25
House heating problem. A. M. Berg. Sanitary & Heat Eng 104:142-3 S 4 '25
How shall I heat my house. A. G. King. il diag plans Dom Eng 106:20-3 F 2 '24
How to heat your home, S: S. Wyer. Heat & Ven 21:80 N; 82 D '24; 22:87 Ja; 92 F; 94 Mr '25
Industrial heating. T. Lewis. Eng Soc W Pa 41:1-7; Discussion. 8-14 F '25
Looking towards the future in heating practice. S: R. Lewis. diags Heat & Ven 21: 39-42 Mr '24
Modern heating—trouble jobs. M. G. Hook. Sanitary & Heat Eng 100:371-3+ D 14 '23
Operating a home heating plant. A. M. Daniels. il U S Agric Farmers' Bul 1194:1-28 '23
Present-day house heating methods. P: H. Bryce. Heat & Ven 20:64-5 N '23
Recent accomplishments in the field of fuel conservation. S: R. Lewis. Heat & Ven 21:45-6+ S '24
Some comments on present day heating and ventilating practice. W. S. Timmis. charts Am Soc Heat & V E J 30:395-403 My '24
Some comments on the heating situation in China. H. L. Alt. Am Soc Heat & V E J 30:589-96, 669-75 Ag, O '24
Unit heaters for industrial heating. H. B. Hedges. il Am Soc Heat & V E J 31:437-46 S '25
Unknown factors in heating and ventilation. A. H. Barker. Engineering 119:201-2 F 13 '25
Der wärmeingenieur. J. Oelschläger. 2d ed. 572p O. Spamer, Leipzig '25
Wärmewirtschaft. Elektrotech Zeit 46:746-7 My 14 '25
Why some heaters don't heat. F. H. Phegley. diags Sheet Metal Worker 16:191-3, 231-2 Ap 24-My 8 '25
Working with the weather man saves us $10,000 a year. D. C. Davies. System 46:362+ S '24

See also Boilers, Heating; Building—Heating aspects; Car heating; Chimneys; Electric heaters; Electric heating; Fireplaces; Fuel; Furnaces, Warm air; Gas heaters; Gas heating; Gas steam radiators; Heaters; Heating from central stations; Heating pipes; Hot water heating; Insulation (heat); Mechanical equipment of buildings; Oil as fuel; Oil as fuel—House heating; Oil burners; Radiators; Refractory materials; Steam heaters; Steam heating; Stoves; Ventilation; Weatherstripping; *also* subdivision Heating and ventilation under special subjects, e.g. Basements; Churches; Department stores; Electric plants (central stations); Factories; Garages; Greenhouses; Hospitals; Hotels; Motor buses; Moving picture studios; Moving picture theaters; Office buildings; Paper mills; Schoolhouses; Textile mills; Theaters; *also* American society of heating and ventilating engineers

Cost

Experiments in residence gas heating. il Sheet Metal Worker 14:991-4 Ja 18 '24
Heating rooms: comparison of costs of different methods; abstracts. M. Fishenden and R. E. Willgress. Gas J (Lond) 171:162 Jl 15 '25; Engineering 120:110 Jl 24 '25
Results in building and house-heating at Boston. il Gas Age 53:479-81 Ap 12 '24

Estimates

Do you guess or estimate? E. W. Riesbeck. Dom Eng 109:21+ D 27 '24
Estimating for the heating contractor. E. W. Riesbeck. Dom Eng 111:19-20 Ap 25 '25
Estimating heating installation. W: Bergner. Eng & Contr (Bldgs) 64:189-90 Jl 22 '25
Schoolmaster and his class. R. M. Starbuck. diags Dom Eng 108:25+ Ag 2 '24
Time required for estimating heating work. Heat & Ven 21:59 D '24
Try it this way; how to make a quick and workable estimate. R. E. Dockham. plans Sanitary & Heat Eng 103:357-9 My 29 '25

See also Heating—Tables, calculations, etc.

History

50,000 years of heating. E. W. Riesbeck. il diags Dom Eng 110:64-6+ Ja 10; 29-30+ Ja 17; 24-6 F 28 '25

Laws and regulations

Codes, rules and compendiums. S: R. Lewis. Heat & Ven 22:73-4 Ag '25; Discussion. 22: 89 S '25
State code and its preparation. R. A. Small. Heat & Ven 22:63-5+ Mr; 56-7 Ap '25
Wisconsin's code for heating and ventilating. Heat & Ven 21:84-7 F '24
Wisconsin's revised heating and ventilation code. Heat & Ven 22:86-7 My; 74-5 Je; 89-91 Jl; 76-9 Ag; 90-1 S '25; Excerpts. Sanitary & Heat Eng 104:114-15+, 182-4+, 212-13+, 281-3 Ag 21, S 18-O 2, 30 '25

Specifications

Outline of tentative specifications for electric resistance thermometer system. Am Arch 127:sup18+ F 11 '25

Standards

Report of the committee on standardization. Sanitary & Heat Eng 101:398-9 Je 13 '24

Study and teaching

Illinois' short course; detailed proceedings. il Dom Eng 108:21-3 S 27 '24
New York university's course in heating and ventilation. Heat & Ven 22:83-4 O '25

Tables, calculations, etc.

Calculations of thermal requirements in buildings by means of a graphic chart. J. N. Victor. Am Arch 126:69-71 Jl 16 '24
Dissipation of heat by bare iron pipes. F. E. Giesecke. Heat & Ven 22:54-9 N '25
Factory heating and ventilation. A. G. King. Dom Eng 108:21-2+ Ag 2 '24
Figuring heat losses and estimating radiation. diags Dom Eng 113:25-6+ O 24 '25
Figuring heating load to arrive at right size of boiler. E. W. Morris. Sanitary & Heat Eng 102:257-9+ O 17 '24
Figuring radiation accurately. diag Sanitary & Heat Eng 102:300-2 O 31 '24
Heat requirements of intermittently-heated buildings. W: Sommer. Heat & Ven 22:72-5 O '25
Heating isolated spaces; vestibules, show windows, ticket booths, hospital operating rooms. C: L. Hubbard. diags Dom Eng 108: 27+ S 27 '24
Hoffman data book for heating engineers and contractors. J. M. Sewell and C: V. Haynes. comp. 170p Hoffman specialty co., Waterbury, Conn. '23
How and how not to use the iso-degree-day chart. map Heat & Ven 22:49-51 N '25
How shall I heat my house? il plans Dom Eng 106:21-3+ Mr 1; 26+ Mr 15; 107:28-30+ Ap 12; 26+ My 24 '24

HEATING—Tables, calculations, etc.—*Cont.*
Iso-degree-day chart. P. E. Fansler. chart Heat & Ven 22:73, 98a S '25
Iso-gas-consumption chart. Heat & Ven 22: supp O '25
Movement towards a standard radiation formula. plan Heat & Ven 21:49-51 O '24
New chart for figuring greenhouse heating. N. T. Bourke. chart Heat & Ven 22:49-53 My '25
New radiation tables. diag Dom Eng 109:25-6 N 1 '24
Optimum operating conditions for pipe heating and cooling equipment. W. K. Lewis, J. T. Ward and E. Voss. Ind & Eng Chem 16:467-8 My '24
Proposed method for comparison of effectiveness of indirect heating surfaces. A. E. Stacey, jr. and C. M. Ashley. il Am Soc Heat & V E J 31:327-35 Je '25; Same cond. Heat & Ven 22:65-7 Jl '25; Discussion. Am Soc Heat & V E J 31:423-5 Ag '25
Répartition générale de la chaleur dans les immeubles au moyen de centrales thermiques avec ou sans utilisation de la force motrice. A. Nessi. diags Soc Ing Civils Bul 77:113-42 Ja '24
Temperature-time conversion to degree-days. Heat & Ven 22:85-8 Je '25

See also Boilers, Heating—Rating; Heat conductivity; Heat radiation; Heat transmission; Heating, Warm air—Tables, calculations, etc.; Hot water heating—Tables, calculations, etc.; Steam heating—Tables, calculations, etc.

Terminology

Definitions of common terms used in heating and ventilating practice. Heat & Ven 21:66 Ap '24

Testing

Comparative tests of heating systems. Eng & Contr (Bldgs) 63:1363-5 Je 24 '25
Some facts about enclosed radiation. R. V. Frost. Am Soc Heat & V E J 30:741-6 D '24; Same. Dom Eng 110:34-7 Ja 31 '25; Abstracts. Heat & Ven 22:75-7 F '25; Sanitary & Heat Eng 103:146-7 Mr 6 '25; Discussion. Am Soc Heat & V E J 31:207-8 Mr '25

See also Radiators—Testing

HEATING, Electric. See Electric heating

HEATING, Fan blast
Fundamentals of hot blast heating. M. Kimberly. il diags Sanitary & Heat Eng 101: 104-7 F 22 '24
Rating heating boilers for hot blast service. C: L. Hubbard. diags Dom Eng 113:20-1+ O 31 '25
Using by-products in flour mill heating and humidifying. E. K. Campbell. il diags Am Soc Heat & V E J 30:349-58 My '24; Abstract. Heat & Ven 21:59-61 Jl '24
Value of fans in furnace heating. C: G. Buder. il Am Soc Heat & V E J 31:349-52 Je '25; Same. Sheet Metal Worker 16:373-4 Je 19 '25; Same. Heat & Ven 22:60-1 Jl '25

HEATING, Industrial
Aiding the finisher in the textile industry. J: T. Travis. il Gas Age 54:271-2 Ag 23 '24; Same. Am Dyestuff Rep 13:628-9+ S 22 '24
Conserving our industrial fuels. G. R. Brandon. Iron Tr R 75:799-801 S 25 '24
Making an industrial survey and an analysis of other fuels. C. H. Light. Gas Age 56:201-2, 243-6+ Ag 15-22 '25
Mercury vapor as an industrial heating medium. C. Field. diags Chem & Met Eng 30: 987-91 Je 23 '24; Abstract. Mech Eng 46:554 S '24
Self-contained heater for foundry and metallurgical use. diags Engineering 119:700-1 Je 5 '25
Some aspects of oxygen enrichment of combustion air in heating-furnace practice. W. C. Buell, jr. Eng Soc W Pa 41:133-43; Discussion. 144-55 My '25
Wärmetechnik vor 400 jahren. O: Johannsen. Stahl & Eisen 45:1429-30 Ag 20 '25

See also Electric heating, Industrial; Foundry practice; Furnaces; Furnaces, Heating; Gas as fuel; Gas torch; Heat treatment; Kilns; Metallurgy; Open hearth process; Ovens; Oxyacetylene flame; Steel, Heat treatment of; Welding

Cost

Cost of industrial heating. D. J. Demorest. Chem & Met Eng 32:381-2 Mr '25

Tables, calculations, etc.

Die abwärmeverwertung in orts- und fernheizwerken. C. Eberle. diags Zeit Ver Deutsch Ing 69:297-301 Mr 7 '25
Fuel required to heat iron. A. D. Williams. Iron Age 113:162 Ja 10 '24

HEATING, Warm air
Catechism on warm-air heating. Sheet Metal Worker 15:148, 186-7, 213, 380, 426-7, 521-2, 557, 642+, 695-6, 734-5 Mr 14-Ap 11, Je 6-20, Jl 18, Ag 15, S 12-O 10 '24
Easy lessons in furnace heating. M. T. Hanlon. diag Sheet Metal Worker 15:1030-1; 16:14-15, 52-3, 117-18, 163-4, 200 Ja 30-F 27, Mr 27-Ap 24 '25
Educate customers on cellar air. R. Y. Miller. Sheet Metal Worker 15:998 Ja 16 '25
Educational research residence. il plans Sheet Metal Worker 15:326 My 23 '24
Furnace research residence dedicated at mid-year meeting of National warm-air heating and ventilating association. Sheet Metal Worker 15:873-5 D 5 '24; Nation's Health 7:44-5 Ja '25; Heat & Ven 22:69-72 Ja '25
Future of the warm-air industry. Sheet Metal Worker 14:857-9 D 7 '23
Heating a seven-acre building with warm air; American royal exposition building at Kansas City. il plans Sheet Metal Worker 14:891-3 D 21 '23
Heating a small house by hot air. I. P. Hicks. il plans Bldg Age 45:60-1 N '23
Heating homes without basements. C: L. Hubbard. diags Bldg Age 46:191 N; 149 D '24
Heating information broadcasted by radio. E. F. Glore. Sheet Metal Worker 15:123-4 Mr 14 '24
How they save fuel in Kansas; effective combination of direct-transmission air heaters and steam boiler. J: H. Kitchen. il plan Heat & Ven 22:64-7+ S; 59 O '25
How Urbana research house may be used. A. C. Willard. Sheet Metal Worker 14:897-8 D 21 '23
Investigation of warm-air furnaces and heating systems. A. C. Willard, A. P. Kratz and V. S. Day. il diags plans Ill U Eng Exp Sta Bul 141:1-152 '24
Locating return-air supply. W: Gunton. plans Sheet Metal Worker 15:746-8 O 24 '24
Movement of air in furnace heating. B. F. John. Sheet Metal Worker 15:73 F 29 '24
Performance of a warm-air furnace with anthracite and bituminous coal. A. P. Kratz. Heat & Ven 21:61-2 Jl '24
Progress in warm-air heating. E. B. Langenberg. Sheet Metal Worker 15:451-2 Jl 4 '24
Proper air conditions with heating. E. A. Stewart. Sheet Metal Worker 15:250+ Ap 25 '24
Publicity assured for furnace heating at National warm air heating and ventilating association 12th annual meeting, Cleveland. Sheet Metal Worker 16:203-7 Ap 24 '25
Scheme for heating buildings with refrigerating plants. R. F. Yates. il plan Heat & Ven 21:47-8 My '24
Two thousand attend furnace opening; Ilten & Taege, inc., Cedar Rapids, Ia. il Sheet Metal Worker 16:1-2 F 13 '25
Typical school heating layout. C: L. Hubbard. diags Sheet Metal Worker 14:782-4 N 9 '23
Warm-air furnace heating. T: Woodward. Sheet Metal Worker 15:295+ My 9 '24

HEATING, Warm air—*Continued*
Warm-air heating and the future. F. H. Phegley. Sheet Metal Worker 15:611-12 Ag 29 '24
Warm-air heating in industrial plants. il Sheet Metal Worker 16:478-9 Jl 31 '25
Warm air heating research residence completed. il diag Heat & Ven 21:71 O '24
Warm-air research building dedicated. J. M. White. Dom Eng 109:31-2 D 20 '24
Who can heat this one-story house with a furnace? il plan Sheet Metal Worker 16: 153-4 Ap 10 '25
See also Furnaces, Warm air; Heating, Fan blast; Registers (heating); *also* National warm air heating and ventilating association

Exhibitions

Showing the public proper furnace heating by contrast. plans Sheet Metal Worker 14:933-5+ Ja 4 '24

Tables, calculations, etc.

Allowance for variations in temperature at register faces for design of warm-air furnace systems. A. P. Kratz. diags plans Am Soc Heat & V E J 31:336-42 Je '25; Same. Sheet Metal Worker 16:369-71 Je 19 '25
Basing warm air heater selection on climatological condition and heater performance curves. V. S. Day. Am Soc Heat & V E J 30:753-60 D '24
Effect of length of leader pipe on heating capacity in gravity warm-air heating systems. V. S. Day. il diags Am Soc Heat & V E J 31:343-8 Je '25; Same. Sheet Metal Worker 16:380-1+ Je 19 '25; Discussion. Am Soc Heat & V E J 31:425-6 Ag '25
Principles of design in furnace heating. il plans Sheet Metal Worker 15:199-201, 277-9, 373-6+, 460-1+, 502-5+, 565-8+, 604-6, 640-2, 680-2, 714-15, 788-90, 830-3, 867-9+, 937-8, 1004-7, 1034-6; 16:46-8, 80-3, 311-14, 340-2+, 440-2, 515-17, 546-7+, 688-9+ Ap 11, My 9, Je 6, Jl 4-18, Ag 15-O 10, N 7-D 5 '24, Ja 2-30, F 27-Mr 13, Je 5-19, Jl 17, Ag 14-28, O 23 '25
Selecting wall stacks scientifically for gravity warm air heating systems. V. S. Day. Am Soc Heat & V E J 30:391-4 My '24; Same. Sheet Metal Worker 15:532-3 Ag 1 '24; Abstract. Heat & Ven 21:49-50+ Jl '24

HEATING and piping contractors national association
Annual convention, 35th, Atlantic City, May 26-29. Dom Eng 107:19-25+ Je 7 '24; Heat & Ven 21:59-62+ Je '24; Sanitary & Heat Eng 101:394-400 Je 13 '24
Annual convention, 36th, Detroit, June 1-4. Dom Eng 111:16-25+ Je 13 '25; Sanitary & Heat Eng 103:410-12 Je 12 '25; Heat & Ven 22:75-84 Jl '25

HEATING boilers. See Boilers, Heating

HEATING contracts
How will the court construe contradictory clauses in a heating contract, calling for a system to heat rooms to 70 degrees in zero weather? Dom Eng 105:482-3 D 8 '23
Important government decision on separation of contracts. Heat & Ven 21:74-5 S '24
Philadelphia heating engineers adopt contract form. Sheet Metal Worker 16:448-9 Jl 17 '25

HEATING from central stations
Die abwärmeverwertung in orts- und fernheizwerken. C: Eberle. il diags maps plans Zeit Ver Deutsch Ing 69:376-81 Mr 21 '25
Additional steam lines and plant of the New York steam corporation; distribution of steam for heating and power. maps Power 60:807-8 N 18 '24
Another central heating system turns to live steam; Union electric light and power company, St Louis. L. E. Young. il diag map Heat & Ven 21:41-4 N '24
Applying centralized control to steam heating systems. il diags Power 60:417-19 S 9 '24
Central and district heating. F. A. Combe. 79p [bibliog. p. 76-9] Canada. Fuel board, Ottawa '24
Central and district heating possibilities in Canada. Heat & Ven 22:82-5 F '25
Central heating here and there. plan Dom Eng 111:21+ Ap 4 '25
Central heating plant at Grand Rapids. plan Power 60:42-6 Jl 8 '24
Central heating systems. C: L. Hubbard. il diag Bldg Age 46:69-70+ Je; 70-1 Jl; 73+ Ag; 75-6 S; 73+ O '24
Central station heating proves successful. H. A. Woodworth. il diag Power Pl Eng 28:377-80 Ap 1 '24
Central station heating requirements. H. A. Woodworth. diags Power Pl Eng 28:658-62 Je 15 '24
Centralized building heating service. L: A. Foster. il plans Power Pl Eng 29:493-5 My 1 '25
Cleveland's underground high-pressure steam line. il Power 59:816 My 20 '24
Community service from mill power plant. C: L. Hubbard. plans Textile World 68:657+ Ag 1 '25
District heating by waste heat from Diesel engines. H. Doevenspeck. Power 62:412 S 15 '25
District steam heating in small communities and residential districts. W. J. Kline. il Heat & Ven 22:69-72 My '25
District steam heating proves economical in St Louis. H. A. Woodworth. il diags Power Pl Eng 28:1107-10 N 1 '24
Economical utilization of heat from central station plants. N. W. Calvert and J. E. Seiter. charts diags plan Am Soc Heat & V E J 30:1-16 Ja '24; Same cond. Power Pl Eng 28:296-8 Mr 1 '24; Excerpts. Heat & Ven 21:64-7 F '24; Abstract. Power 59:347 F 26 '24; Discussion. Am Soc Heat & V E J 30:259-61 Mr '24
Economy in central heating; report by Dominion fuel board. Can Eng 48:155 Ja 20 '25
Economy methods which have made central station heating practicable. H. A. Woodworth. il Heat & Ven 21:51-3 S '24
Facts on hot water and steam central heating systems. E. W. Riesbeck. il diags plans Dom Eng 109:33-4+ D 6; 34+ D 13 '24
Fairmount pumping station and heating plant. L. A. Quayle. il diag plan Mech Eng 46:866-72 D '24; Abstract. Power 60:844-7 N 25 '24
Group heating as the next forward step in the progress of the art. H. C. Kimbrough. Heat & Ven 20:60-1 N '23
Group heating of buildings; giant conservatory enclosing half-mile district proposed for economical community heating. S. R. Lewis. diag plan Am Soc Heat & V E J 29:615-22 N '23; Same. Sanitary & Heat Eng 100:344-7 N 30 '23; Excerpts. Heat & Ven 20:57-8 D '23; Excerpt. Am Arch 125:14 Ja 2 '24
Group heating of institutions and colleges. A. S. Kellogg; R. T. Kern. Am Soc Heat & V E J 29:629-46 N '23
Halving heating costs with central station steam; Springfield (Ohio) Masonic temple. S: R. Lewis. Heat & Ven 22:82-3 S; 49-59 O '25
Heating from a central station. D: Caleb. Am Soc Heat & V E J 29:623-7 N '23
Heating group apartments. C: L. Hubbard. il plans Dom Eng 112:24-6+ S 12 '25
High pressure underground steam systems are increasing. L: A. Foster. Power Pl Eng 29:634 Je 15 '25
Lansing improves district heating service. J. E. Woodwell. il chart diag plan Power Pl Eng 29:984-8 O 1 '25
Low pressure steam for district heating. H. A. Woodworth. il diag Power Pl Eng 28:763-8 Jl 15 '24
Natural hot water heating; artesian hot water wells, Boise, Idaho. il Dom Eng 112: 16-17+ Ag 22 '25
New central heating plant of Queen's university and Kingston general hospital. L. M. Arkley and W. P. Wilgar. il diags plan Heat & Ven 20:48-51 D '23
New statistics on central station heating in the United States. Heat & Ven 21:70-1 Ag '24
New utility of steam on tap. M. C. Krarup. il diag Forbes 15:550-3 F 1 '25

HEATING from central stations—*Continued*
Pendleton centralized control for heating systems. W: J. Baldwin, jr. diag Power 60: 627 O 14 '24
Production and costs of central heating. Power 60:171 Jl 29 '24
Reconsiders heating plant plans for St Louis. Power 61:514 Mr 31 '25
Remote valve control. H. W. Woodworth. diag Power 61:838 My 26 '25
Répartition générale de la chaleur dans les immeubles au moyen de centrales thermiques avec ou sans utilisation de la force motrice. A. Nessi. diags Soc Ing Civils Bul 77:113-42 Ja '24; Abstract. Génie Civil 84:191-2 F 23 '24
Right plans essential in district heating. H. R. Wetherell. Power Pl Eng 28:496-7 My 1 '24
Some aspects of the boiler feed water problem in central steam heating plants; abstract. M. Hecht and C. H. Fellows. Power 60:345 Ag 26 '24
Die städteheizung. H. Schilling. il diags map Zeit Ver Deutsch Ing 69:889-93 Jl 4 '25
Steam heating business. E. Douglas. Power 60:225 Ag 5 '24; Discussion. W. J. Risley, jr. 60:428 S 9 '24
Under what conditions will the proposition of supplying central heat be profitable? Power Pl Eng 28:246-7 F 15 '24
Use of a signal system for improving central heating plant operation. H. A. Woodworth. diag Heat & Ven 21:54-5 My '24
Winnipeg's new district heating system. il Heat & Ven 22:54-6+ F '25
See also United refrigeration and terminals company

Costs
Costs of central heating. Sanitary & Heat Eng 103:359+ My 29 '25

HEATING industry
Certified heating. J. C. Fitts. Sanitary & Heat Eng 102:399-401+ D 12 '24
Education and better heating. A. M. Daniels. Sheet Metal Worker 15:248-9+ Ap 25 '24
Heating business for 1925—how can we improve it? R. B. Flershem. Heat & Ven 22: 84-5 Mr '25
Heating situation in China. H. L. Alt. Am Soc Heat & V E J 30:301-6 Ap '24
Investing time with your jobber. H. A. Call. Sanitary & Heat Eng 104:206-7 O 2 '25
Knocking the melancholy out of heating profits. H. A. Call. Sanitary & Heat Eng 102: 218-19+, 260-1+, 294-5, 368-9; 103:9-10 O 3-31, N 28 '24, Ja 9 '25
Remember the small heating contract! F. A. Merrill. Dom Eng 110:38+ Mr 28 '25
Ruinous price cutting. H. A. Call. Sanitary & Heat Eng 102:434-7; 103:6-8+, 40-1, 72-3+, 108-9, 143-4, 180, 216-17, 252-3, 286-7, 326-7, 360-1, 398-9, 436-7; 104:42-3, 72-3, 116-17+, 146-7, 176-7+ D 26 '24-Je 26, Jl 24-S 18 '25
Standardization in the heating business. A. E. Foote. Sanitary & Heat Eng 103:399 Je 12 '25
What certified heating means to the industry. H. M. Hart. Heat & Ven 22:78-9 Jl '25
Why talk price? A. G. King. Dom Eng 111: 16-18 My 2 '25
See also Furnace industry and trade; Heating from central stations

Accounting
Cost accounting for the heating contractor. A. J. Peel. Heat & Ven 22:49-53 Ag '25

Advertising
Knocking the melancholy out of heating profits. H. A. Call. il Sanitary & Heat Eng 102:183-5+ S 19 '24
Public hears about house heating over the radio. il Am Soc Heat & V E J 30:321-6 Ap '24
Selling cellarless houses to sell heating equipment. Ptr Ink 126:126+ Mr 6 '24
See also Furnace industry and trade—Advertising

Exhibitions
Exhibits reflect great progress at 43d annual convention of National association of master plumbers. il Dom Eng 112:65-8+ Jl 4 '25

Statistics
Manufacture of heating products jumps 75% in two years. Heat & Ven 22:76 Je '25

HEATING pipes
Dissipation of heat by bare iron pipes. F. E. Giesecke. Heat & Ven 22:54-9 N '25
Forced convection of heat in gases and liquids. C. W. Rice. Ind & Eng Chem 16:460-7 My '24
Heat transmission from pipe coils for varied sizes of pipe and heating systems. T. W. Reynolds. Heat & Ven 22:88-9 F '25
Knocking the melancholy out of heating profits; accurate measurements for shop cutting use. H. A. Call. Sanitary & Heat Eng 103: 9-10 Ja 9 '25
See also Furnaces, Warm air—Pipes and fittings; Hot water heating; Steam heating; Steam pipes

HEATING research
British heating research work at a critical point. Heat & Ven 21:69 D '24

HEATON, Clement
Recent work of Clement Heaton in stained glass. L. V. Solon. il Arch Rec 56:283-5 S '24

HEAVISIDE, Oliver
Analogy between pure mathematics and the operational mathematics of Heaviside by means of the theory of H-functions. J. J. Smith. J Fr Inst 200:519-34, 635-72, 775-814 O-D '25
Appreciation. J. S. Highfield. Elec R (Lond) 96:564 Ap 10 '25
Career of Oliver Heaviside. B. A. Behrend. Elec W 85:405-7 F 21 '25
Great practical value of Heaviside's mathematical researches. J: R. Carson. Elec W 85:513 Mr 7 '25
Heaviside's operators in engineering and physics. E. J. Berg. diags J Fr Inst 198: 647-702 N '24
More about Heaviside. E. J. Berg. Elec W 85:475 F 28 '25
Oliver Heaviside; an appreciation. O. Lodge. Electrician 94:174-5 F 13 '25; Same cond. Elec W 85:403-5 F 21 '25
Oliver Heaviside; his genius and his work. O. C. Roos. por Wireless Age 12:39+ Ap '25
Sketch. Elec W 85:364 F 14 '25; Elec R (Lond) 96:268 F 13 '25; Electrician 94:186 F 13 '25; Engineer 139:183 F 13 '25; Engineering 119: 203 F 13 '25
Sketch. W. V. Lovell. N E L A Bul 12:256 Ap '25

HEAVISIDE layer. See Atmosphere

HEAVISIDION
Instant Heavisidion—a kinematic computing device for long transmission lines. V. Karapetoff. il diags Gen Elec R 28:746-51 N '25

HECLA mining company
Hecla mining co. Eng & Min J 117:510-11 Mr 22 '24

HEDGING
Hedging—its whys and wherefores. E. Hofsoos. Forbes 15:683-5 Mr 1 '25

HEIDE, Henry
He sells billions of penny candies. G: Cary. por Nation's Business 12:40+ F '24

HEINZ, H. J., company
Heinz fetes employees. Ptr Ink 129:176+ O 16 '24

HEISING, Raymond A.
Sketch. R: Lord. por Wireless Age 12:33+ N '24

HELICOPTERS
First helicopter to fly a circular kilometer. diag Aviation 17:888-9 Ag 18 '24
Introduction to the helicopter. A. Klemin. il diags Mech Eng 46:739-51 pt 2 N '24; Abstract. Aviation 18:374-6 Ap 6 '25; Discussion. 47:266-9 Ap '25
Progress in helicopters. Aviation 16:615 Je 9 '24

HELIGOLAND
Demolition of the harbour and defence works of Heligoland; abstracts. L. H. Savile. Engineering 119:221-2 F 20 '25; Eng & Contr (G C) 64:1139-40 N 18 '25

HELIOTHERAPY
Health clinic directs treatment by heliotherapy. il Nation's Health 7:631 S '25

HELIUM
Absence of helium from the gases left after the passage of electrical discharges: between fine wires in a vacuum; through hydrogen; through mercury vapor. S. K. Allison and W. D. Harkins. diags Am Chem Soc J 46:814-24 Ap '24
Beginnings of the helium development. G: A. Burrell. Chem & Met Eng 29:1013-14 D 3 '23
Bureau of mines takes over helium. Aviation 18:407 Ap 13 '25
Coefficients of slip and momentum transfer in hydrogen, helium, air and oxygen. E: Blankenstein. diag Phys R 22:582-9 D '23
Electrical properties of helium. J. S. Townsend and S. P. McCallum. diags Philos Mag 6th ser 47:737-53 Ap '24
Excitation of the helium spectrum by electronic bombardment. A. Udden and J. C. Jacobsen. il Phys R 23:322-6 Mr '24
Generating units of United States helium gas power plant. Z. W. Wicks. il diag Power 62:8-11 Jl 7 '25
Helium air for submarine divers. il Sci Am 133:52 Jl '25
Helium and airship transportation. W. A. Moffett. Am Pet Inst Bul 5:29-32 D 31 '24
Helium and its value for airships. P. W. Litchfield. Aviation 18:272-3 Mr 9 '25
Helium bill. Aviation 18:191 F 16 '25
Helium-oxygen for compressed air work. R. R. Sayers and W. P. Yant. Eng N 95:586 O 8 '25
Helium's use in aircraft made more feasible. Chem & Met Eng 29:943 N 19 '23
Intensity relations in the helium spectrum. C. B. Bazzoni and J. T. Lay. diag Phys R 23:327-36 Mr '24
Ionization by collision in helium. J. S. Townsend and T. L. R. Ayres. Philos Mag 6th ser 47:401-15 F '24
Ionizing potentials of helium and some multiatomic gases. C. A. Mackay. Philos Mag 6th ser 46:828-35 N '23
Joule-Thomson effect for helium. J: H. Perry. J Phys Chem 28:1108-12 O '24
Magnetic susceptibility of helium, neon, argon, and nitrogen. L. G. Hector. diag Phys R 24:418-25 O '24
Magnetic susceptibility of oxygen, hydrogen and helium. A. P. Wills and L. G. Hector. diags Phys R 23:209-20 F '24
Mobilities of electrons in helium. L. B. Loeb. Phys R 23:157-68 F '24
Observations on the Stark effect in hydrogen and helium. J. S. Foster. diags Phys R 23: 667-84 Je '24
Post-arc conductivity and metastable helium. C. Eckart. diags Phys R 26:454-64 O '25
Solubility of helium and hydrogen in heated silica glass and the relation of this to the permeability. G. A. Williams and J. B. Ferguson. Am Chem Soc J 46:635-9 Mr '24

Transportation

A.R.A. committee report on new type tank cars designated as class VI for the transportation of helium gas. Ry R 74:1175-7 Je 21 '24

HELIUM, Liquid
Lowest temperature yet obtained; further experiments with liquid helium at the physical laboratory of the University of Leiden. H. K. Onnes. diags Refrig Eng 12:116-24 O '25

HELLMANN, Richard
Capitalist of the kitchen; Richard Hellmann, inc. Comm & Fin 14:1553 Ag 12 '25

HELMHOLTZ double layer. See Electric double layer

HELMHOLTZ resonator
Additions to the theory of the Helmholtz resonator. A. T. Jones. Phys R 25:696-704 My '25
Frequency of a Helmholtz resonator with a hyperboloidal mouth. A. T. Jones. Phys R 25:705-10 My '25

HEMACYTOMETERS
New interference apparatus for testing haemacytometers. C. G. Peters and B. L. Page. il diags U S Bur Stand Sci Pa 507:221-36 '25

HEMATITE
Crystal structures of hematite and corundum. L. Pauling and S. B. Hendricks. diags Am Chem Soc J 47:781-90 Mr '25
Hematite iron ore standard. Engineer 139: 170 F 6 '25
Mining hematite paint at Clinton, N.Y. W: S. Black. il diags plan Eng & Min J 119:927-30 Je 6 '25
Origin of Clinton hematite ores. G: W. Stose. il Econ Geol 19:405-11 Ag '24
Some magnetite-hematite relations. G. Gilbert. il Econ Geol 20:587-96 S '25
Two-stage transformation of magnetite into hematite. L. A. Welo and O. Baudisch. diags Philos Mag 6th ser 50:399-408 Ag '25

HEMICELLULOSE
Quantitative methods for the analysis of hemicellulose in apple wood. W. E. Tottingham and F. Gerhardt. Ind & Eng Chem 16: 139-40 F '24

HEMIPINIC anhydride
Condensation products of hemipinic anhydride with phenol ethers and their conversion into anthracene derivatives. A. Bistrzycki and K. Krauer. Chem Soc J 124 pt 1:1209-11 D '23

HEMOGLOBIN
Surface concentration of casein crystalline egg-albumin and crystalline haemoglobin. J. M. Johlin. J Phys Chem 29:897-913 Ag '25

HEMP
Bast fibres as substitutes for cotton. C: F. Goldthwait. il Textile World 67:2107+ Mr 28 '25
British Empire as a producer of the flax and hemp group of fibres. A. Wigglesworth. Textile Inst J 15:P321-32 Ag '24
Cottonised flax and hemp as a substitute for cotton. P. Heermann. Textile Inst J 15:P85-6 Mr '24
Cottonising flax and hemp. C: F. Greenfield. Textile Col 47:565-7, 632-4 S-O '25
Hanfbau und hanfverwertung in Deutschland. E. Gminder. Zeit Ver Deutsch Ing 69: 627-8 My 9 '25
Hemp as a fibre plant. R. O. Herzog. Soc Dyers & Col J 40:19-20 Ja '24

See also Abaca; Jute; Oakum; Ramie; Sisal hemp

HENEQUEN. See Sisal hemp

HENLEY'S, W. T., telegraph works company, ltd.
Ordinary general meeting, 45th, London, February 29. Electrician 92:311 Mr 7 '24; Elec R (Lond) 94:386-7 Mr 7 '24

HENRY, Beulah Louise
Inventor of Radio Rose. M. G. Reed. il Wireless Age 12:37+ Je '25
Study in feminine invention. il Sci Am 131:260 O '24

HENRY, Joseph, 1797-1878
Sketch. E. W. Rice, jr. Gen Elec R 27:85-9 F '24

HENTZ, Henry, 1835-1924
Death of Henry Hentz, last surviving charter member of New York cotton exchange. Comm & Fin Chr 119:1576 O 4 '24

HEPBURN, A. Barton
Record of a notable banking career. por Bankers M 108:219-20 F '24

HERALDRY
Heraldry in architecture. Am Inst Arch J 13: 35-7 Ja '25

HERBERT pendulum
Comparison of Herbert pendulum hardness tester with other hardness testers. J. O. Keller. il Mech Eng 46:818-24 pt 2 N '24; Discussion. 47:282-4 Ap '25
Comparison of methods for testing hardness. H. E. Degler. Am Mach 63:381-4 S 3 '25
Herbert pendulum hardness tester. il Chem & Met Eng 31:471 S 22 '24; Automotive Ind 51: 488 S 11 '24; Eng & Min J 118:477 S 20 '24
Investigations on the Herbert pendulum hardness tester. C. Benedicks and V. Christiansen. diags Iron & Steel Inst J 110:219-38; Discussion. 239-48 no 2 '24
New method of hardness testing; details of the Herbert pendulum tester. il Automobile Eng 15:114 Ap '25
Le pendule Herbert, pour essais de dureté; les conditions de son emploi; ses applications. il Génie Civil 86:560-2 Je 6 '25
Work-hardening of metals and the Herbert tester. il Engineer 137:248-9+ Mr 7 '24
Work-hardening of various metals. E: G. Herbert. Iron Age 113:1792-3 Je 19 '24

HERCOBLASTING. See Blasting

HERCULES powder company
Conditions of success in explosives manufacture. G: H. Markell. Chem Age 32:6-8 Ja '24

HEREDITY
Heredity and environment. H. S. Jennings. Sci Am 132:419 Je '25
See also Eugenics; Evolution; Genetics; Mendel's law

HERNIA
Hernia. R. Lewy. U S Bur Labor Statistics Bul 385:65-7 '25
Hernia as a workmen's compensation problem. J. G. M'Dougall. U S Bur Labor Statistics Bul 385:51-4; Discussion. 54-65 '25

HERRINGBONE gearing. See Gearing, Herringbone

HERSHEY chocolate company
Hershey chocolate co. 1st 6s, 1942 (rated A). Moody's Inv Serv 16:88 F 28 '24

HERTZ, Heinrich, 1857-1894
The true story of Heinrich Hertz. R. F. Yates. por Wireless Age 12:26-7 Ja '25

HERTZ, John
Courage fathered yellow taxis; service made 'em grow. B. C. Forbes. por Forbes 15:341-4 D 15 '24

HERTZIAN waves. See Electromagnetic waves; Radio waves

HESPERIDIN
Precipitation of hesperidin in frozen oranges. Am Chem Soc J 47:1191-2 Ap '25

HESSELMAN engine
Test of the Hesselman solid-injection oil engine. E. Lundgren. il Power 61:523 Ap 7 '25
Versuchsergebnisse einer Hesselman-verbrennungsmaschine. E. Hubendick. il diags Zeit Ver Deutsch Ing 69:737-41 My 30 '25

HETCH Hetchy water supply project
Building Moccasin Creek penstock, Hetch Hetchy project. il diags Eng N 93:858-60 N 27 '24
Hetch Hetchy Bay crossing division. il Pub Works 56:371-4 O '25
Hetch Hetchy hydroelectric development of the city of San Francisco. P. J. Ost. il diag plan map J Elec 55:25-30 Jl 1 '25
Hetch Hetchy power development. M. M. O'Shaughnessy. il plans Elec W 86:206-11 Ag 1 '25
Hetch Hetchy tunnel. il Eng & Contr (G C) 64:141-8 Jl 15 '25
Hetch Hetchy work goes on despite controversy. Eng N 93:926 D 4 '24
Laying submarine pipe at San Francisco. Pub Works 56:125 Ap '25
Present status of Hetch Hetchy water supply and power project. N. A. Eckert. Munic & Co Eng 69:213-18 O '25
Present status of San Francisco's Hetch Hetchy project. il map Eng N 94:1021-3 Je 18 '25
San Francisco's Hetch Hetchy power and water project. il plan Power 62:238-41 Ag 18 '25
San Francisco's Hetch-Hetchy water supply and power development. M. M. O'Shaughnessy. il Gen Elec R 27:78-84 F '24

HETEROCYCLIC compounds
Polynuclear heterocyclic aromatic types; some anhydronium bases. J. W. Armit and R. Robinson. Chem Soc J 127:1604-18 Jl '25

HETHERINGTON, J., and sons, limited
Annual general meeting, 31st, Manchester. Economist 101:464-6 S 19 '25

HEVEA. See Rubber plants

HEWITT, William D., 1848-1924
Sketch. por A. Granger. Am Arch 126:293-4 S 24 '24

HEXA-AMYLOSE
Constitution of polysaccharides; the molecular structure of β-hexa-amylose. J. C. Irvine, H. Pringsheim and J: MacDonald. Chem Soc J 125:942-7 Ap '24

HEXACHLOROETHANE
Preparation of hexachloroethane by the chlorination of ethylene. G. E. Miller. diag Ind & Eng Chem 17:1182-3 N '25

HEXAHEXOSANE
Hexahexosane from starch; abstract. A. Pictet and P. Stricker. Soc Dyers & Col J 41:189-90 My '25

HEXAHYDROMANDELATES
Rotatory dispersion of certain normal alkyl hexahydromandelates. C: E. Wood and M. A. Comley. Chem Soc J 125:2630-46 D '24

HEXAMETHYLENETETRAMINE
Hexamethylenamin poisoning in the rubber industry. H. J. Cronin. Monthly Labor R 19: 657 S '24
Improvements of the process of making hexamethylenetetramine; patent. Chem Age 32: 357-8 Ag '24
Nitration of hexamethylenetetramine. G: C. Hale. Am Chem Soc J 47:2754-63 N '25

HEXANE
Action of ozone on hydrocarbons, with special reference to the production of formaldehyde. E. W. Blair, T. S. Wheeler and W. Ledbury. Soc Chem Ind J 43:287-9 S 5 '24
Monomolecular films between liquids; butyric acid between water and hexane, and acetic acid between water and benzene. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:1610-13 Je '25
Note on the action of bromine on *n*-hexane. E. W. Blair, W. Ledbury and T. S. Wheeler. Soc Chem Ind J 43:289-90 S 5 '24
Oxidation of hydrocarbons with special reference to the production of formaldehyde; the slow oxidation of the higher liquid, saturated hydrocarbons. T. S. Wheeler and E. W. Blair. Soc Chem Ind J 42:491-7 D 21 '23

HEXOSAMINES
Hexosamines and mucoproteins. P. A. Levene. 163p [bibliog. p. 150-6] Longmans '25

HEXYLMALONIC acid
Ethyl-normal-hexylbarbituric acid and other derivatives of normal-hexylmalonic acid. A. W. Dox. Am Chem Soc J 46:1707-11 Jl '24

HIDES and skins
Advances in calfskin prices. Dun's R 33:13 Je 13 '25
Destructive and preservative effect of neutral salts upon hide substance. A. W. Thomas and S. B. Foster. Ind & Eng Chem 17:1162-4 N '25
Epilation of skins. H. C. Ross. Soc Chem Ind J (Chem & Ind) 43:55-9 Ja 18 '24; Discussion. 43:230-1, 256-7 F 29-Mr 7 '24
Hide, skin and leather markets. Comm M 6: 27-30 S '24

HIDES and skins—*Continued*
Reconnaissance méthodique, à l'aide du microscope, des poils d'un certain nombre de mammifères. L: Lomuller. diags Chimie & Ind 12:993-1002; 13:24-32; 14:190-200 D '24-Ja, Ag '25

See also Calfskin; Leather; Tanning

HIGH Bridge. See New York (city)—Bridges

HIGH buildings
American radiator building, New York city. H. W. Corbett. plans Arch Rec 55:473-7 My '24
American radiator company building, New York. R. M. Hood. Am Arch 126:467-74, pl 161-8 N 19 '24
Architecture in the United States. A. J. Penty. Am Inst Arch J 12:473-5 N '24
Building no. 550 Seventh Avenue, New York; views. Am Arch 128:pl 284-7 O 20 '25
Classic in the skyscraper. F. Kimball. il Arch Rec 57:189-90 F '25
College in a tower; description of Pittsburgh's Cathedral of learning. il Eng & Contr (Bldgs) 68:936-7 O 28 '25
Effect of the New York zoning resolution on commercial buildings. il Am Arch 125:547-51 Je 18 '24
Exterior architecture of office buildings. R. M. Hood. il Arch Forum 41:97-9 S '24
From Babel to modern skyscraper. A. C. Bossom. il Bankers M 110:341-5 F '25
Future of the skyscraper; an interview with A. C. Bossom. Bankers M 108:962-3 Je '24
Height limitations in zoning. J. L. Crane, jr. Am Soc C E Pro 51:194-206 F '25
Height of buildings in Boston. J: R. Nichols. Arch Forum 40:83-4 F '24
High buildings—an American view. L. Mumford. Am Arch 126:423-4 N 5 '24
Higher building in relation to town planning. R. Unwin. diags plans Am Inst Arch J 12:124-31 Mr '24
Highest concrete building; 274 ft. above sidewalk; United Brethren building at Dayton, Ohio. il plans Eng N 93:177-80 Jl 31 '24
Limit height of buildings. R. F. Kelker. Aera 12:1347-9 Mr '24
New building for the American radiator co., located on West 40th street, facing Bryant park, New York; view. Am Arch 125:122a Ja 30 '24
New dimension in architectural effects. H. Croly. Arch Rec 57:93-4 Ja '25
Passing of the skyscraper formula for design. L. V. Solon. il Arch Rec 55:135-44 F '24; Same. Eng & Contr (Bldgs) 61:863-7 Ap 23 '24
Plumbing for high buildings. G: Read. diag Am Water Works Assn J 13:28-32 Ja '25
Skyscraper in the service of religion; combined church and skyscraper on upper Broadway. H. D. Croley. Arch Rec 55:203-4 F '24
Southwestern Bell telephone company's building, St Louis. A. N. Rebori. il Arch Rec 57:574-6 Je '25
Structural steel frame of the American radiator building. il diags plans Am Arch 126: 475-80 N 19 '24
Study in problems of urban growth. T: Adams and H. L. Seymour. diags Can Eng 47:543-9 N 25 '24
Tribune tower. H. Onderdonk and others. il diags plans W Soc E J 29:443-67 D '24
Ups and downs in the modern building. B. Jones. Am Inst Arch J 12:328-31 Jl '24
Der wolkenkratzer. E. Schueler. Am Arch 128: 43-6 Jl 15 '25
Zoning laws in New York and the development of a new commercial center. il Am Arch 128:189-90, pl 232-5 Ag 26 '25
Zoning skyscrapers in Chicago. A. N. Rebori. il Arch Rec 58:88-90 Jl '25

See also New York (city)—Architecture; Office buildings; Steel construction; *also* Equitable life assurance society building, New York; Standard oil company building, New York; Straus, S. W., and company building, Chicago; Wrigley building, Chicago

Exterior lighting
Illuminating the exteriors of buildings. B. Jones. il Arch Forum 42:93-6 F '25; Same. Eng & Contr (Bldgs) 64:467-71 Ag 26 '25

Safety aspects
Panic! possibilities of disasters in lower New York. J. H. Collins. il diags Sci Am 133:149-51 S '25

HIGH frequency furnaces. See Electric furnaces, High frequency

HIGH pressure plants. See Steam plants—High pressure

HIGH school buildings. See Schoolhouses—Designs and plans

HIGH-speed steel. See Tool steel

HIGH voltage phenomena
High voltage phenomena. G. Faccioli. il diags W Soc E J 29:431-42, 468 D '24; Abstract. Power Pl Eng 28:1151-5 N 15 '24
High-voltage phenomena. F. W. Peek, jr. il diags J Fr Inst 197:1-44 Ja '24

HIGHWAY accidents. See Automobile accidents; Street railroads—Accidents

HIGHWAY accounting
Cost keeping on county highway work. A. K. Hay. Eng & Contr (R & S) 61:741-5 Ap 2 '24; Same, without forms. Can Eng 46:411-12 Ap 8 '24
Elgin county maintenance organization. F. Pineo. Can Eng 46:351-2 Mr 18 '24
Highway maintenance accounting. Eng & Contr (R & S) 63:484 Mr 4 '25
Keeping maintenance cost as an aid to highway development. H. L. Washburn. Good Roads 67:3-5 Jl '24

HIGHWAY administration
Application of comparative unit costs to the highway engineering business. W: H. Connell. Ann Am Acad 113:128-30 My '24
Central plant maintenance for highways. L. C. Smith. Can Eng 49:309-10 S 15 '25
Control of distant units in road construction. O. M. Kipp. Eng & Contr (R & S) 61:302-5 F 6 '24; Same. Munic & Co Eng 66:82-6 F '24; Same cond. Can Eng 46:607-8 Je 10 '24
Development of highway building policies in North Carolina. H. K. Witherspoon. Munic Eng 65:267-9 D '23
Equalizing road assessments. Can Eng 48: 429 Ap 21 '25
Federal and state policies in the construction of the federal aid highway system. T: H. MacDonald. Munic & Co Eng 66:171-8 Ap '24; Same. Eng & Contr (R & S) 61:26-33 Ja 2 '24
Georgia state highways. il Pub Works 55:48-50 F '24
Good roads in Connecticut. J: A. MacDonald. il Good Roads 67:105-7 O '24
Highway bridges in Quebec. Can Eng 48:470 My 5 '25
Highway business; what Pennsylvania is doing. W: H. Connell. chart Ann Am Acad 116: 113-27 N '24; Same cond. Can Eng 47:137-40 Jl 8 '24; Same abr. Eng & Contr (R & S) 62:545-8 S 3 '24
Highway reconstruction in Nova Scotia. R. W. McColough. il Can Eng 48:555-7 Je 9 '25
Importance of township roads. W. Boughner. Can Eng 46:323-4 Mr 11 '24
Impressions of English highway practice. A. B. Fletcher. il Pub Roads 5:1-4 F '25; Same. Munic & Co Eng 68:117-22 Mr '25; Same. Eng & Contr (R & S) 63:1204-9 Je 3 '25
Legal aspects of trunk roads through cities and villages. S: K. Markman. Good Roads 68:64, 86-7 F-Mr '25
Lining up a highway maintenance patrol personnel. H. J. Friedman. Eng N 94:1013-14 Je 18 '25
Locating department of North Carolina highway commission. il chart Eng & Contr (R & S) 62:325-8 Ag 6 '24
Mutual dependence in construction. S. M. Williams. Eng & Contr (R & S) 63:1003-5 My 6 '25

HIGHWAY administration—*Continued*
Necessity for county road organization. T. R. Patterson. Can Eng 46:319-20 Mr 11 '24
Ontario provincial highway system. S. L. Squire. Can Eng 48:509-10 My 19 '25
Ontario road problems discussed. Can Eng 47:468 O 28 '24
Road construction and maintenance. J. Todd. Can Eng 48:435-6 Ap 28 '25
Road improvement in Dereham township. J. D. Flanders. Can Eng 49:107-8 Jl 7 '25
Rural highway pavements. W. G. Harger. 613p McGraw-Hill '24
South Carolina highway department. C: H. Moorefield. Pub Works 55:232-3 Jl '24
State highway commissions may be sued. Eng N 95:195 Jl 30 '25
State purchase of materials. B. H. Piepmeier. Eng N 92:149 Ja 24 '24
State wide road maintenance. F. T. Sheets. il Eng & Contr (R & S) 63:471-80 Mr 4 '25; Same. Good Roads 68:143-8 Jl '25
Surveyor and good roads movement. H. T. Routly. Can Eng 48:325-7 Mr 17 '25
Ten years of highway progress in Minnesota. C: A. Forbes and W. P. Chapman. Munic & Co Eng 67:134-7 S '24
Up-keep of road maintenance equipment; an interview with W. A. Van Duzer. C. S. Hill. il Eng N 94:10-14 Ja 1 '25
Washington highway notes. il Pub Works 56: 23-4 Ja '25
What did the Pan-American road congress accomplish? P. Johnson. Automotive Ind 51: 114-16 Jl 10 '24

See also Highway accounting; Highway departments; Highway inspection; Highway law; Highway research; Roads—Convict labor; Roads—Finance; Roads—Maintenance and repair; Roads, Township; Snow removal; Streets

HIGHWAY contracts. See Roads—Contracts

HIGHWAY departments
Loss and waste due to frequent changes in state highway department personnel. H. G. Shirley. Munic Eng 66:23-5 Ja '24; Same. Eng & Contr (R & S) 61:511-13 Mr 5 '24
Organization of the New Mexico state highway department. J. D. Macy. il map Good Roads 66:167-8 Je '24
Service—the slogan of the progressive highway department. A. R. Hirst. Munic & Co Eng 66:150-5 Ap '24; Same. Eng & Contr (R & S) 61:994-9 My 7 '24
Work of the testing bureau of the Illinois highway department. H. F. Clemmer. Munic & Co Eng 68:135-8 Mr '25

Equipment
California highway devices. C: W. Geiger. il Pub Works 56:118-19 Ap '25
California highway equipment department. Pub Works 55:247-8; 56:153-6 Ag '24, My '25
Collective buying of equipment. C: Talbot. Can Eng 48:328 Mr 17 '25
Drill rig for bridge site borings. F. L. Klein. il Eng & Contr (R & S) 63:1236-7 Je 3 '25
Homemade device for highway marking. il Concrete 27:49 O '25
State highway department garages. B. H. Piepmeier. Eng & Contr (R & S) 63:1237-8 Je 3 '25

HIGHWAY engineering
Bridge building on an Indiana state highway. il diags Eng N 94:804-6 My 14 '25
Checking cross sections. J. L. Underhill. Can Eng 47:224 Ag 5 '24
Economics of highway engineering. H. T. Tudsbery. Engineering 120:287-8, 339-40; Discussion. 318-19 S 4-11 '25
Efficiency in construction operations. T. J. Wasser. Eng & Contr (R & S) 64:1017-21 N 4 '25
Highway construction as public service. W. H. Connell. Eng & Contr (R & S) 62:329-30 Ag 6 '24
Highway engineering. J: W. Green and H. P. H. Morgan. 295p St Bride's press, ltd., London '24
Minimum specifications for highway engineering positions. diags Nat Research Council Bul v 8 pt 3:1-105 My '24
Road reform. Engineering 116:686 N 30 '23
Standard methods of Pennsylvania highway department; diagrams. Eng & Contr (R & S) 64:60 Jl 1 '25
Structural design of highways. A. T. Goldbeck. Eng N 93:958-9 D 11 '24
Taking the guess out of bidding. S. J. Clausen. Eng & Contr (R & S) 64:801-2 O 7 '25

See also Bridges; Curves; Driveways; Highway research; Pavements; Roads; Streets

Study and teaching
Education for highway engineering and highway transport. W. C. John, ed. 247p U.S. Highway educ. board, Washington '24
Graduate short period courses in highway engineering. Eng & Contr (R & S) 60:1000 N 7 '23
Graduate short period courses, University of Michigan. Can Eng 47:566 D 2 '24; Eng & Contr (R & S) 62:1244 D 3 '24; Pub Works 55:372-3 D '24
Highway transportation courses; their place and content. C: L. Raper. Pub Roads 5:23-4 Ja '25
1924-1925 fellowships in highway engineering and highway transport at University of Michigan. Eng & Contr (R & S) 62:324 Ag 6 '24
Place of the university in good roads and automobile transportation. A. H. Blanchard. Ann Am Acad 116:274-9 N '24
Technical training for highway engineers. R. De L. French. Can Eng 47:141-2 Jl 8 '24; Same abr. Eng & Contr (R & S) 62:13-15 Jl 2 '24
University of Michigan provides 20,000 sq. ft. for highway engineering and transport in new engineering building. A. H. Blanchard. plan Munic Eng 65:224-6 N '23; Same. Eng & Contr (R & S) 60:1190-1 D 5 '23; Same. Good Roads 56:17-18 Ja '24
University of Michigan to hold 11th annual conference on highway engineering. Good Roads 68:66+ F '25

Tables, calculations, etc.
Researches on the structural design of highways by the United States Bureau of public roads. A. T. Goldbeck. il chart diags Am Soc C E Pro 50:453-89 Ap '24; Discussion. 50:728, 895-7, 1511-12 My, Ag, N '24
Right of way calculations. Eng & Contr (R & S) 63:1010 My 6 '25
Spiral curves cut costs of North Carolina road work. C: M. Pritchett. Eng N 93:132-5 Jl 24 '24

See also Earthwork—Tables, calculations, etc.

HIGHWAY engineers
Duties of field engineers on highway construction. B. H. Piepmeier. Munic & Co Eng 68:65-7 F '25

HIGHWAY finance. See Roads—Finance
Inspector's duties. Pub Works 56:5 Ja '25

HIGHWAY inspection

HIGHWAY law
California court decides county may engage bridge engineer. Eng N 94:847 My 21 '25
California primer of the law of the public highways applicable to pedestrians, vehicles and animals. T. O. Abbott. 96p Primer pub. co., San Francisco '24
Canada highways act and amendments. Can Eng 49:370-1 S 29 '25
Collister-Freeman law inadequately enforced in Ohio. J: S. Bleecker. Aera 12:1376-9 Mr '24
Engineers and highway legislation. Eng N 92: 53 Ja 10 '24
Model state law for street and highway lighting. Munic & Co Eng 67:191-7 O '24
Mutual rights and duties of utilities on the highways. D: F. Simpson. Elec W 83:1091-5 My 24 '24
Right to change highway routes questioned. Eng N 95:362 Ag 27 '25

HIGHWAY law—*Continued*
Rights of pedestrian and motorist. R. B. Stoeckel. Eng & Contr (R & S) 61:1243-4 Je 4 '24

Road and bridge laws of Illinois. L: L. Emmerson, comp. 151p Illinois ptg. co., Danville '23

States powerless to regulate interstate motor traffic. J: W. Colton. il Aera 13:1445-53 Ap '25

Street and highway safety; National conference formulates comprehensive recommendations. Soc Auto Eng J 16:53-8+ Ja '25; Eng N 93:1038-42 D 25 '24; Automotive Ind 51:1073-7 D 25 '24; Elec Ry J 64:1042-4 D 20 '24; Bus Transportation 4:35-8 Ja '25; Aera 13:1020-7 Ja '25; Nat Safety N 11: 19-21 Ja '25; Eng & Contr (R & S) 63:39-48 Ja 7 '25; Pub Works 56:29-30 Ja '25

See also Automobile laws and regulations; Highway administration; Motor trucks—Laws and regulations; Streets; Traffic regulations

HIGHWAY research
Highway research. A. N. Johnson. Munic & Co Eng 69:100-3 Ag '25; Same. Concrete 27: 33-4 S '25; Same. Eng & Contr (R & S) 64: 507-10 S 2 '25; Same abr. Automotive Ind 53: 384-5 S 3 '25

Highway research board fourth annual meeting held at Washington in December. J. L. Harrison. Pub Roads 5:5-8 Ja '25; Same. Munic & Co Eng 68:3-6 Ja '25; Same. Eng & Contr (R & S) 63:263-8 F 4 '25; Same cond. Can Eng 48:147-8 Ja 20 '25

Highway research in Illinois. C. Older. il Am Soc C E Pro 50:175-217 F '24; Same cond. Munic Eng 67:103-11 Mr '24; Same cond. Eng & Contr (R & S) 61:981-93 My 7 '24; Discussion. H. F. Clemmer. Am Soc C E Pro 50: 861-2 Ag '24

Highway research pays. Soc Auto Eng J 16: 22-3 Ja '25

Highway research report on character and use of road material. Munic & Co Eng 68: 186-7 Ap '25

Highway research work in Ohio. Munic & Co Eng 67:214+ O '24

Late developments in highway research. S. S. Steinberg. Munic & Co Eng 69:179-81 O '25; Same. Good Roads 68:243-4 O '25; Same abr. Pub Roads 6:182 O '25

Proceedings of the third annual meeting of the Advisory board on highway research, Division of engineering, National research council. W: K. Hatt and E. R. Olbrich, eds. il Nat Research Council Bul v 8, pt 1:1-162 Mr '24; Summary. Pub Works 55:257-8 Ag '24

Recent conclusions in highway research. A. T. Goldbeck. Pub Roads 5:9-14 Ja '25; Same. Concrete 26:91-5 Mr '25; Same. Eng & Contr (R & S) 63:457-65 Mr 4 '25

Reports of Highway board and highway research. Good Roads 65:204, 207-9 D 12-19 '23

Research program of North Carolina highway commission and its results. C: M. Upham. Munic Eng 65:257-60 D '23; Same. Eng & Contr (R & S) 61:16-20 Ja 2 '24

Researches on the structural design of highways by the United States Bureau of public roads. A. T. Goldbeck. il chart diags Am Soc C E Pro 50:453-89 Ap '24; Discussion. 50:728, 895-7 My, Ag '24

Results and application of the Bates road tests. C. Older. W Soc E J 29:225-38; Discussion. 38-40 My '24

Some recent developments in highway research. Eng N 93:957-9 D 11 '24

Transverse distribution of motor vehicle traffic on paved highways. J. T. Pauls. il diags Pub Roads 6:1-13 Mr '25

What contractors are doing in highway research. Eng & Contr (R & S) 60:1196-7 D 5 '23

What highway investigations have shown. A. T. Goldbeck. bibliog diags map Eng Soc W Pa 41:158-207 Je '25; Same cond. Good Roads 68:175-80, 217-22+ Ag-S '25; Same cond. Can Eng 49:575-80, 595-9 N 24-D 1 '25; Discussion. Eng Soc W Pa 41:208-20 Je '25

See also Roads—Testing; *also* National research council—Advisory board on highway research

HIGHWAY safety, National conference on. See National conference on street and highway safety

HIGHWAY surveying. See Roads—Surveying

HIGHWAY transportation
Americans urge broad view of highway development at Brussels meeting. W. F. Bradley. Automotive Ind 53:63-4 Jl 9 '25

Development of road transport, and its economic significance. K. G. Fenelon. Engineering 120:320 S 11 '25

Economics of road transport. K. G. Fenelon. 256p [bibliog. p. 247-51] G. Allen & Unwin, ltd., London '25

Fuel resources and supplies for road transport. E. J. W. Slade. map Inst Pet Tech J 9:452-68 D '23

Highway transportation. J. G. McKay. map Ann Am Acad 116:127-32 N '24

Highway transportation—an aid to the railroads. A. H. Blanchard. Good Roads 65: 183-4+ D 5 '23

Highway transportation costs. T: R. Agg and H. S. Carter. Iowa State College of Agric and Mechanic Arts Eng Exp Sta Bul 69:1-31 '24

Highway transportation surveys in Maine and Illinois. Munic & Co Eng 67:143-4 S '24

Highways and traffic. F. S. Besson. il diags Soc Auto Eng J 14:594-601 Je '24

Motor transportation as a passenger carrying agency. A. W. S. Herrington. diags Soc Auto Eng J 17:157-60 Ag '25

Neck of the highway transportation bottle. C. C. Williams. Munic & Co Eng 68:93-8 F '25; Same. Eng & Contr (R & S) 63:686-91 Ap 1 '25

Public and highway transportation. W. M. Jardine. Munic & Co Eng 68:284-8 Je '25; Same cond. Good Roads 68:181-4 Ag '25

Roads—motor and rail. G: W. Anderson. Aera 13:1678-89 My '25

What motor transportation has accomplished; 17,500,000 cars in use. Comm & Fin Chr 121: 546-7 Ag 1 '25

See also Automobiles and roads; Highway engineering; Motor bus lines; Motor trucks and roads; Motor trucks in freight service; Motor vehicles; Road traffic; Roads

HILL, E. Vernon
Who's who in heating and ventilation. por Heat & Ven 21:61-3 O '24

HILLEBRAND, William Francis, 1853-1925
Portrait. Chem Age 31:533 D '23
Sketch. C. E. Waters. por (front) Am Chem Soc J 47:sup53-60 Ap '25

HILLSIDE roads. See Roads, Hillside

HINGES
Cold drawn manganese steel is used in latest type door hinge. W. L. Carver. il diags Automotive Ind 51:687-9 O 16 '24

Early colonial hand forged iron work. M. S. Teller. il diag plan Arch Rec 57:395-416 My '25

Strap hinges; an artistic revival. il Bldg Age 47:119 S '25

Advertising
Builds goodwill by giving unselfish aid to consumers; McKinney forethought plans for fitting furniture. R. Leigh. Ptr Ink M 9:116+ Ag '24

Standards
Hinge standards agreed upon. diags Soc Auto Eng J 16:41 Ja '25

HINSDALE, Illinois
Hinsdale community development. il plans Am Arch 125:234-6 Mr 12 '24

HIORNE, Francis
Smaller civil architecture of England; the County sessions house, Warwick. R. W. Ramsdell and H. D. Eberlein. il diags Arch Forum 41:173-6 O '24

HISINGERITE
Hisingerite from Blaine co., Idaho. D. F. Hewett and W. T. Schaller. bibliog il Am J Sci 5th ser 10:29-38 Jl '25

HISTORIC buildings
See Independence hall, Philadelphia

HISTORIC houses
Conservation of a relic of colonial days; house of E. N. Wicht, Douglaston, L. I., N. Y. il plans Am Arch 126:285-92 S 24 '24
Manors and historic homes of the Hudson valley. H. D. Eberlein. 328p Lippincott '24
Southern historic homes—the birthplace of American government. H: E. Harman. il Manuf Rec 86:169-76 pt 2 D 11 '24
See also Arlington House, Arlington national cemetery; Monticello, Virginia

HISTORICAL society buildings
Historical society building, Peterborough, New Hampshire; views and plan. Arch Rec 56:327-9 O '24

HITCHES. See Mine cars—Couplings; Slings and hitches

HOARDING
How much money is hoarded? J. S. McCoy. Am Bankers Assn J 16:777-8 Je '24

HOBBIES
Riding hobbies to business success. A. C. Belden. Ptr Ink M 8:52+ Je '24

HOBBING machines
Sommer & Adams multiple spindle spline hobbing machine. il Am Mach 60:337-8 F 28 '24; Iron Age 113:643-4 F 28 '24; Mach 30:555-6 Mr '24
What modern machine tools are doing; Gould & Eberhardt manufacturing hobbing-machine. diags Am Mach 62:380-1 Mr 5 '25

HOBS
Barber-Colman automatic hob-sharpening machine. il Am Mach 62:902 Je 4 '25; Mach 31:832 Je '25
Grinding and mounting hobs. H. M. Butler. diag Am Mach 60:301 F 21 '24
Ground hobs for thread hobbing. L. K. Goss. Mach 31:446 F '25
Hobbing coarse-pitch sprockets. C. G. Olson. il diag Mach 31:956 Ag '25
Relieving spiral-fluted hobs. G. D. Hutchings. diag Mach 31:619 Ap '25

HOCKING Valley railway
Annual report, 25th, 1923. Ry Age 76:1179-80 My 10 24; Same. Comm & Fin Chr 118: 2064-5 Ap 26 '24
Annual report, 26th, for year ended December 31, 1924. Ry Age 78:1248-50 My 16 '25; Same. Comm & Fin Chr 120:2443-4 My 9 '25

HODGKINSON, Francis, 1867-
Appreciation. J. F. Johnson. por Elec J 22: 314-16 Jl '25
Francis Hodgkinson presented with Cresson medal. por Power Pl Eng 29:567 My 15 '25
Portrait. Elec W 83:368 F 23 '24

HOFFMANN, Josef
Work of Josef Hoffmann. P: Behrens. il Am Inst Arch J 12:421-6 O '24

HOFMANN rearrangement. See Molecular rearrangements

HOG Island
Shipping board advertises for bids on Hog Island. Ptr Ink 132:156+ Ag 20 '25

HOGAN, John V. L.
Sketch. G. M. Goldman. por Wireless Age 12: 45+ O '24

HOGGED fuel. See Wood as fuel

HOISTING
Guide sheaves for hoisting ropes. diags plan Eng & Min J 120:258 Ag 15 '25
Hoisting speeds for concrete buckets. M. G. Farrell. il Bldg Age 47:170-1 S '25
Stresses in sling chains. J. P. Doolan. Eng N 94:739 Ap 30 '25
Ways in which sling chains are abused. D. Fliegelman. il Ind Eng 83:223-7 My '25
See also Chain blocks; Hoisting towers; Levers; Mine hoisting

Safety devices and measures
New safety brakes for hoists. G: Iring. diag Eng & Min J 120:196 Ag 1 '25
Prevention of accidents on platform hoists. N. L. Doe. il diags Eng & Contr (Bldgs) 64:472-8 Ag 26 '25
Use of slings for heavy parts. il diags Power Pl Eng 28:955-7 S 15 '24

HOISTING machinery
Air hoist in bridge work. diag Eng & Contr (G C) 63:844 Ap 17 '25
Barrett governor-controlled, gear-inclosed portable elevator. il Am Mach 62:672 Ap 23 '25
Construction equipment—past and present; hoisting engine. il Eng N 92:916-18 My 22 '24
Cranes and hoists. il Factory 35:264-5 Ag '25
Easily improvised tripod hoist. G. G. McVickers. diags Eng & Contr (Bldgs) 62:695 S 24 '24
Les effets de l'inertie dans les appareils de levage et leurs conséquences. A. Duclos. diags Génie Civil 85:596-9 D 27 '24
Handling materials by cable conveyor. M: W. Potts. il diags plans Ind Management 68: 170-7 S '24
Handling steel chips; portable compressed air hoists. W. H. Wineman. il Iron Age 115: 1714 Je 11 '25
Haulage engine for the Penang Hills railway. il diags Engineering 118:790-2, 804 D 12 '24
Hebe- und fördermittel auf der britischen reichsausstellung in Wembley. R. Woernle. il diags Zeit Ver Deutsch Ing 69:65-70 Ja 17 '25
Hoist attachment for Fordson. il Eng & Contr (Equip R) 64: 734 S 30 '25
Hoist engines used as stump pullers. A. D. Blakeslee. il Eng N 92:1027-8 Je 12 '24
Increasing the usefulness of cranes and hoists. M: W. Potts. il Ind Management 70: 96-102 Ag '25
Ingersoll-Rand air motor hoists. Textile World 65:1625 Mr 1 '24
Novel type of skip hoist. diags Cassier's Ind Management 12:292-3 My '25
Operation and selection of small hoists. R. B. Hunter. il Ind Eng 82:527-30+ N '24
Roots' hoist for charging foundry cupolas. il Cassier's Ind Management 12:152-3 F '25
Skip hoist used without overhead storage. il Power Pl Eng 28:957-8 S 15 '24
Skip hoists. G: F: Zimmer. diags Electrician 93:723-5; 94:4-6 D 26 '24-Ja 2 '25
Small hoists for the power plant. il diag Power Pl Eng 28:957-8 S 15 '24
Swing-or finger-tray elevator for handling fresh fruit in crates, barrels and cases. G: F: Zimmer. diags plan Cassier's Ind Management 11:445-7 O '24
See also Air lifts; Buckets; Cableways; Conveying machinery; Cranes, derricks, etc.; Elevators; Lifting magnets; Mine hoisting; Mining machinery; Ore handling; Winches; Winding engines; Windlass; Wire rope

Specifications
Outline of tentative specifications for unloading towers, buckets, trolley and hoisting engines. Am Arch 127:sup20 F 11 '25

Standards
Standardization as applied to bucket elevators. M: W. Potts. chart diags Ind Management 69:116-21 F '25

HOISTING machinery, Electric
Coal hoisted by use of power chain block. il Power Pl Eng 28:892 S 1 '24
Electrification of blast-furnace bell hoists. G. W. Baumgarten. diags Elec J 21:527-9 N '24

HOISTING machinery, Electric—*Continued*
Generator voltage control for the high-speed coal towers at the Brooklyn Edison company's Hudson Avenue station. E. D. Harrington. il diag Gen Elec R 28:80-5 F '25
Heywood one-ton electric pulley block. il diags Engineering 119:447-9 Ap 10 '25; Elec R (Lond) 97:198 Jl 31 '25; (Palan électrique d'une tonne, système Heywood). Génie Civil 87:45 Jl 11 '25
Mechanical features of the high-speed coal towers at the Brooklyn Edison company's Hudson Avenue station. C. D. Bray. il Gen Elec R 28:74, 76-9 F '25
Money-saving material handling; data on conveyors, cranes, and hoists with cost tables. G: E. Hagemann. Management & Adm 9: 153-6 F '25
More saving than at first appeared by use of a one-ton motor-operated chain block. D. S. Clinton. Factory 33:380+ S '24
Roeper compact high speed electric hoist. il Ry Mech Eng 99:530 Ag '25; Paper Tr J 79: 76 N 27 '24
Solenoid brake on large bucket elevator. R. F. Emerson. diag Power 61:147-8 Ja 27 '25; Same. Cassier's Ind Management 12:302+ My '25
Sullivan portable electric hoist. il Manuf Rec 86:121 O 2 '24
Transportation within papermills. R. B. Williams. il Paper 33:13-14 D 6 '23
Umlaufräderwerke im hebezeugbau. G. W. Heinold. il diags Zeit Ver Deutsch Ing 68: 1191-4 N 15 '24
Unusual electric hoist for gravity incline built for the Yosemite lumber co., Merced Falls, Cal. il Iron Tr R 74:234-5 Ja 17 '24
Die vorteile des reihenbaues elektrischer hubwerke; abstract. Pfahl. il diag Zeit Ver Deutsch Ing 69:823-5 Je 13 '25
See also Mine hoisting, Electric

HOISTING towers
Construction of material hoisting towers. Bldg Age 46:144 D '24

HOLDING companies
Development of public utilities; holding companies likened to British investment trusts. S: Insull. Comm & Fin Chr 120: 2104-6 Ap 25 '25
Electric bond and share company—engineer. G: C. Cox. Annalist 25:518-19 Ap 13 '25
Electric light and power investment companies. M. J. Insull. Elec J 22:249-50 Je '25
Electric utility holding companies. A. K. Baylor. Elec W 84:624-5 S 20 '24
Holding companies and utility expansion. H: L. Doherty. Pub Serv Management 36:62 F '24
The holding company. Pub Serv Management 38:115 Ap '25
Holding company as an aid in reorganization. Harvard Business R 2:233-7 Ja '24
Importance of holding companies in the financing and supervision of utility companies. G: T. Bishop. N E L A Bul 12: 694-6 N '25; Same cond. Am Gas J 123:677+ D 26 '25; Same cond. Gas Age 56:891-2 D 19 '25
Management-investment companies mean greater and cheaper service to the public. J: J. O'Brien. Elec J 22:254 Je '25
Place of the holding company. J: J. O'Brien. Elec W 85:27-30 Ja 3 '25
Place of the holding company. G: N. Tidd. Elec W 85:559 Mr 14 '25
Some reflections on the amazing rise of the electric light and power industry. S: Insull. N E L A Bul 12:277-83+ My '25; Excerpts. Elec W 85:782 Ap 11 '25
See also North American company

Accounting
Holding companies and their published accounts. G. F. Garnsey. 208p Gee & co., ltd., London '23
Holding companies having subsidiary companies in various localities. C: H. Brook. J Account 37:28-32 Ja '24; Same. Paper Tr J 78:53-4 Je 12 '24
Students' department. H. A. Finney. J Account 38:451-72 D '24
See also Consolidated statements

Securities
Holding company securities sold on customer-ownership plan. Elec W 84:1367-8 D 27 '24

HOLDING devices (machine work)
Grinding fixture with tilting work-holder. R. P. Schmidtchen. diags Mach 31:299-300 D '24
Work-handling device feature of centering machine. il Iron Age 114:1403 N 27 '24
See also Arbors and mandrels; Machine tools—Fixtures

HOLEPROOF hosiery company
Why an advertised trade-mark eventually takes place of the guarantee. Ptr Ink 127: 57-8 Ap 24 '24

HOLIDAYS
Buying sprees that stimulate business. Ptr Ink 128:95-6 S 11 '24
Holidays, with pay, for English wage earners. Monthly Labor R 20:1052-3 My '25
Legislation on annual holidays for workers. Int Labour R 11:60-82 Ja '25

HOLLAND, Clifford M., 1883-1924
Sketch. Elec Ry J 64:790 N 1 '24; Eng N 93: 723+ O 30 '24
Successful young engineer. C: Gilman. por Prof Eng 10:6-7+ Ja '25

HOLLAND. See Netherlands

HOLLAND, Michigan

Water supply
Concrete wells at Holland, Michigan. R. B. Champion. il Am Water Works Assn J 14: 17-22 Jl '25

HOLLAND-AMERICAN line
Holland-American line s. f. 6s, 1947. Moody's Inv Serv 16:463 D 26 '24

HOLLAND tunnel. See Hudson river vehicular tunnel

HOLLINGER consolidated gold mines, ltd.
Hollinger consolidated gold mines. Eng & Min J 117:389-90 Mr 1 '24

HOLLOW building tile association
Annual convention, 7th, Chicago, Feb. 4-6. Brick & Clay Rec 66:275-7 F 17 '25

HOLLOW tile
Contributing factors to bad case of tile lamination. diags Brick & Clay Rec 66:750-2 My 12 '25
Hollow building tile; abstract. Am Inst Arch J 12:420 S '24
Hollow building tile standards. Am Arch 125: 493 My 21 '24
Hollow tile invades Detroit. il Brick & Clay Rec 65:459-60 S 30 '24
Hollow tile on the farm. H. R. Straight. il Brick & Clay Rec 64:799-801 My 27 '24
Laboratory experiments in the development of a plant drier. W. E. Barrett. diags Am Cer Soc J 8:239-42 Ap '25
Much research work on hollow tile. Brick & Clay Rec 64:256-8 F 19 '24
Report of committee C-10 on hollow building tile. Am Soc T M Pro 24 pt 1:411-22 '24
See also Hollow building tile association

Advertising
Why national advertising pays. J. S. Sleeper. Brick & Clay Rec 65:604-6 O 28 '24

Testing
Strength, absorption and freezing resistance of hollow building tile. H. D. Foster. il Am Cer Soc J 7:189-99 Mr '24
Strength of hollow tile and reinforced concrete floor slabs. Am Arch 127:399 Ap 22 '25
Tests of hollow tile and concrete slabs reinforced in one direction. D. E. Parsons and A. H. Stang. il diags U S Bur Stand Tech Pa 291:465-514 '25; Abstracts. Brick & Clay Rec 67:333-4, 780-1 S 1, N 24 '25
Tile withstands 892.9 pounds per sq. in. in test. Brick & Clay Rec 64:424 Mr 18 '24

HOLMAN, Minard Lafever, 1872-1925
Sketch. por Mech Eng 47:152 F '25

HOLMIUM
Observations on the rare earths; the purification and atomic weight of holmium. F. H. Driggs and B. S. Hopkins. diag Am Chem Soc J 47:363-9 F '25

HOLT manufacturing company
Production control; the Taylor system in Holt management. G: D. Babcock. Taylor Soc Bul 9:260-70 D '24; Same. Am Mach 61: 963-70 D 18 '24; Same. Mech Eng 47:243-8 Ap '25; Excerpts. Ry R 74:1000-5 D 20 '24

HOLYOKE, Massachusetts
See also Hydroelectric plants—Holyoke, Massachusetts

Rapid transit
Holyoke contracts for power. G: E. Pellissier. maps Elec Ry J 65:541-3 Ap 4 '25

HOME demonstration agents
How to co-operate with home demonstration agents. Ptr Ink 131:104+ My 21 '25

HOME demonstration work
Uses of milk personally explained to housekeepers. Ptr Ink 126:189+ Ja 10 '24
Why 500,000 farm women will be better buyers in 1925. Ptr Ink 131:131-4+ Ap 9 '25

HOME economics
Domestic handicrafts. M. H. Murray. 96p Pitman '25
Human machine, how to multiply human energy. A. Ravenhill. Nation's Health 6:598-600+ S '24
Important part domestic factors play in national health. A. Ravenhill. il Nation's Health 6:667-9+ O '24
See also Budget, Household; Cookery; Cost of living; Food; Fuel; Furniture; Interior decoration; Laundry

Study and teaching
Keeping house, caring for baby give seniors experience. A. Blinn. il Nation's Health 7: 686-7 O '25

HOME labor
Amendment of the German home work law. Monthly Labor R 17:1395-6 D '23
German exhibition of home industries and its lessons. G. Hanna. Int Labour R 12:523-9 O '25
Home work in New York city. Monthly Labor R 20:764-6 Ap '25
State laws affecting working women. charts maps U S Women's Bur Bul 40:1-53 '24
See also Sweating system

HOME ownership
Building and mortgage survey. R. D. Maxwell. Forbes 14:632 Ag 15 '24
Economy of home-owning. W. W. Zass. Concrete 27:11-13 Jl '25
Home-owning plan. Management & Adm 8: 653 D '24
How to raise money for small home owners. K. F. Blandin. Bldg Age 46:183-4 N '24
How we financed our bungalow home. G. V. Cummings. il Bldg Age 46:101+ Ap '24
Own your own home expositions—Chicago and New York. Eng & Contr (Bldgs) 61:474 F 27 '24
Wealth-contributing factors in the building of modern homes. B. G. Wallace. Ann Am Acad 115:70-3 S '24
See also Building sites

HOMES, Institutional
Andrew Freedman home, New York city. Arch & Bldg 56:83, pl 170-3 S '24
Girls' home built of concrete tile. il plans Bldg Age 46:90-1 My '24
Marcus L. Ward home for aged and respectable bachelors and widowers, Maplewood, N.J. il plans Am Arch 127:205-14 Mr 11 '25
Oakhaven old peoples' home. C: D. Faulkner. il plans Nation's Health 6:457-9 Jl '24
Oakhaven old people's home, Chicago, Ill.; views and plans. Am Arch 127:pl 13-17 Ja 28 '25

HOMESTAKE mining company
Homestake mining co. Eng & Min J 117:510 Mr 22 '24

HOMESTAKE ores. See Mines and mineral resources—South Dakota

HOMESTEAD law
Exemption of homesteads from taxation. O. M. Johnson and B. W. Allin. J Land & Pub Util Econ 1:380-4 Jl '25

HOMICIDE
Distressing homicide record of the United States for 1924. A. R. Marsh. Econ W n s 29:776 My 30 '25
Homicide and the law in the United States. Econ W n s 28:386-7 S 13 '24
Homicide record for 1923. F: L. Hoffman. Spectator 112:3+ My 8 '24
Homicide record for 1924. F: L. Hoffman. Spectator 114:3-4+ My 21 '25
Homicide report of Memphis. F: L. Hoffman. Spectator 112:11 My 15 '24

HONDURAS
Health conditions in Honduras. E: Perry. il Nation's Health 6:236-7+ Ap '24
See also Aeronautics—Honduras

Industries and resources
Honduras. H. Lazo. U S Bur For & Dom Com Trade Information Bul 193:1-18 '24

HONEY
Honey a stimulus to exhausted muscles. Nation's Health 7:430 Je '25
Honey as anti-freeze for automobile radiators. T. P. G. Shaw and G. L. Robertson. Can Chem & Met 8:63-4 Mr '24; Abstract. Chem & Met Eng 30:473 Mr 24 '24
Honey or oil—are they good for winter cooling? Bus Transportation 4:24 Ja '25

HONGKONG and Shanghai banking corporation
Annual meeting, Hongkong, Feb. 21. Economist 100:768-70 Ap 18 '25

HONNOLD, William Lincoln
Mining engineers of note. por Eng & Min J 118:644 O 25 '24

HONOLULU, Hawaiian Islands
Architecture
Federal building, Honolulu. il plan Arch Forum 41:21-4 Jl '24

HOOKS
See also Crane hooks

Manufacture
Bulldozer in manufacture of heavy forgings. diags Iron Age 114:135 Jl 17 '24
Dies and fixtures for display hooks. D. A. Baker. diags Mach 31:645 Ap '25

Testing
Essais relatifs à la résistance d'anneaux d'attache pour les navires. diags Génie Civil 85:300 O 4 '24

HOOKS, Girder
Testing
Tests of some girder hooks. H. L. Whittemore and A. H. Stang. il diags U S Bur Stand Tech Pa 260:305-25 '24

HOOKWORM
Carbon tetrachloride as a cure for hookworm disease. Monthly Labor R 19:1342 D '24
Preventive medicine and sanitation in relation to efficiency. C: A. Kofoid. il Nation's Health 6:80-2+ F '24

HOOVER, Herbert
Herbert Hoover and the patent office. Sci Am 132:373 Je '25

HOPCALITE
Effect of water and of carbon dioxide on the catalytic oxidation of carbon monoxide and hydrogen by oxygen. A. B. Lamb and W. E. Vail. diags Am Chem Soc J 47:123-42 Ja '25

HOPPERS
Determining hopper valley angles. G: N. Smith. diag plans Eng N 95:520 S 24 '25
Haiss precision hopper. il Eng & Contr (Equip R) 63:915 Ap 29 '25

HOPPERS—*Continued*
Hopper design for automatic machinery. A. A. Dowd. diags Mach 31:37-40 S '24
Patterns for heavy sheet metal work by computation. W: Neubecker. diags Sheet Metal Worker 14:786-7, 822-4 N 9-23 '23

HORGAN, Stephen H.
Awarded American institute of graphic arts medal. por Inland Ptr 74:544a, 547 Ja '25

HORNBLENDE
See Amphibole

HORNS
Non-radial harmonic vibrations within a conical horn. V. A. Hoersch. Phys R 25:218-24 F '25
Theory of the optimum angle in a receiving conical horn. V. A. Hoersch. Phys R 25: 225-9; Discussion. G. W. Stewart. 230-1 F '25

HORNS (loud speakers)
Effect of a horn on the pitch of a loud speaking telephone. E. W. Kellogg. Gen Elec R 27:556-62 Ag '24
Function and design of horns for loud speakers. C. R. Hanna and J. Slepian. il diags Am Inst E E J 43:250-6 Mr '24; Discussion. 43:1191-7 D '24
Knitted-fabric radio horns. L: R. Keeffe. il Textile World 65:3027 My 3 '24
Loud-speaker horns. J. P. Minton. il diags Wireless Age 12:14-15+ Ap; 14-16+ My '25
What's what about radio horns. C. Fiske. il diags Radio N 6:931+ D '24

HORSEHAIR
Some characteristics of horsehair; d'Alfonso's apparatus. E. Tänzer. Soc Dyers & Col J 41:74 F '25

HORSEHAIR worm. See Hair worms

HORSEPOWER
How to determine horsepower of a shaft or clutch. Ind Eng 83:539-40 N '25

HORSES
Horse in ice delivery. W. Dinsmore. Refrig W 60:18 Ap '25
Scientific horse feeding saves ice co. thousands. J: A. Simms. Refrig W 60:23-4 Mr '25
See also Insurance, Live stock

HORSES, Fossil
Horse of a million years ago. il Sci Am 132: 199+ Mr '25

HORSESHOES
Manufacture
Juniata, Shoenberger works, Pittsburgh, 100 years old. A. J. Hain. il Iron Tr R 75:475-9 Ag 21 '24
Shoemaking for 5,000,000 horses. P. Winchell. il diags Iron Age 115:1477-9 My 21 '25

HORTON, Kansas
Water supply
Reinforcing the water supply of Horton, Kansas. N. T. Veatch. il Eng N 94:931-2 Je 4 '25

HOSE
Inserting connecting sleeves in armored hose. H. Levine. diags Am Mach 61:628 O 16 '24
Railway train hose. il India Rubber W 71: 333-4 Mr '25; Same. Ry R 76:947-9 My 23 '25
See also Air brake hose; Fire hose; Gasoline hose
Manufacture
Manufacture of molded garden hose. il India Rubber W 71:75-6 N '24
Specifications
United States government master specification for oil suction and discharge hose. U S Bur Stand Circ 209:1-4 '25

HOSE connectors. See Connectors, Train line

HOSE couplings
Standards
Pulling the fire demon's teeth; approval of American national screw threads for fire hose couplings. Aera 12:2072-4 Jl '24; Pub Works 55:220-1 Jl '24
Standard hose connections for gas welding. diags Elec Ry J 66:790 O 31 '25; Same. Ry R 77:822 N 28 '25
Standardization of fire hose threads. J. H. Howland. N E Water Works Assn J 38:73-6 Mr '24; Excerpt. Can Eng 46:372-3 Mr 25 '24; Discussion. N E Water Works Assn J 38: 76-8 Mr '24
Standardized hose couplings. diags Am Mach 61:910 D 11 '24

HOSE machine
Covington hose dismantling and assembling machine. il Ry Mech Eng 99:246-7 Ap '25

HOSIERY
Artificial silk and wool hosiery. L: G. Hayes. Color Tr J 14:59-61 F '24; Same. Am Dyestuff Rep 13:213-15 Ap 7 '24
Artificial silk in hosiery. B. R. Clarke. Textile World 65:2499+ Ap 12 '24
Dyeing artificial silk in hosiery goods; abstracts. H. B. Wolstenholme. Chemicals (Dyestuffs sec) 16:153-4 My 25 '25; Textile World 68:1613+ S 19 '25
Dyeing of cotton and silk hosiery. S. V. DeForest. Chemicals (Dyestuffs sec) 17:59 S 14 '25
Dyeing of hosiery. M. N. Conklin. Color Tr J 14:84-6; 15:17-19 Mr, Jl '24
Dyeing of hosiery. E. H. Killheffer. Am Dyestuff Rep 13:245-6 Ap 21 '24; Same. Textile World 65:2505 Ap 12 '24
Dyeing of rayon hosiery. H. C. Roberts. Textile World 68:1785-6 sec 2 S 26 '25
Dyeing of three fiber hosiery. J. S. Unterweiser. Am Dyestuff Rep 14:28-9; Discussion. 29-30 Ja 12 '25
Dyeing woolen hosiery. W. S. William. Textile Col 46:638 O '24
Effect of the standardization of hosiery colors upon the hosiery industry. J: N. McCullaugh. Color Tr J 16:83-4 Mr '25
Future of fancy tops. L: R. Keeffe. Textile World 66:505+ Jl 26 '24
Glove fabric underwear and hosiery. G. R. Merrill. il Textile World 67:1963+ Mr 21 '25
Hosiery dyeing and its problems. R: C. Spurgeon. Am Dyestuff Rep 13:87-90 F 11 '24
Hosiery dyeing machines. H. S. Drum. Am Dyestuff Rep 13:90-3 F 11 '24
Hosiery, knit underwear, and gloves. N. Kneeland. 126p Shaw '24
How about these hosiery novelties? L: R. Keeffe. Textile World 67:872+ F 7 '25
Journal of a hosiery dyer. Am Dyestuff Rep 13:356+, 406-7, 442, 480, 502-3, 533-4 Je 2-Ag 11 '24
Knitting seamless hose. W. E. Boswell. Textile World 68:1615+ S 19 '25
Multi-color effects on hosiery. J. H. Zens. Am Dyestuff Rep 14:562-3 Ag 24 '25; Same. Textile World 68:485 Jl 25 '25
Notes on the dyeing of cotton stockings. Color Tr J 15:110 O '24
Outcasts of production; Rollins hosiery mills not neglecting the large man. M. Harlan. Ptr Ink 129:10+ N 20 '24
Outlook for novelty half hose. L. R. Keeffe. Textile World 67:4179 Je 27 '25
Printed half hose possibilities. L: R. Keeffe. Textile World 65:3445 My 24 '24
Silk hosiery now established as a necessity. Ptr Ink 130:191+ F 12 '25
Steam heated metal form for hosiery. il Textile Col 47:240-1 Ap '25
Stripping hosiery with hydrosulphites and sulphoxalates. A. R. Thompson. Am Dyestuff Rep 13:368-9 Je 2 '24
Technical control in the modern silk hosiery dyehouse. L: S. Zisman. Am Dyestuff Rep 14:207-9 Ap 6 '25
Tuck stitch in hosiery. G. R. Merrill. il Textile World 68:1033+ Ag 22 '25
Value of laboratory; useful to the hosiery dyer in many ways. Textile World 65:375+ Ja 19 '24

HOSIERY—*Continued*

Cost

Cost and selling price graphs. W. E. Haseltine. Textile World 66:3587+ D 20 '24

Standards

Report on standard hosiery lengths. Textile World 66:3573+ D 20 '24
Standard hosiery colors selected. Textile World 67:188 Ja 10 '25
Standardized method of measuring the size of hosiery. diags U S Bur Stand Circ 149:1-5 '24; Excerpts. Textile Col 46:246 Ap '24

Testing

Testing with the Mullen tester. C. J. Burkley. il Textile World 65:97+ Ja 5 '24

HOSIERY and underwear manufacturers, National association of. See National association of hosiery and underwear manufacturers

HOSIERY boxes and shipping cases

Methods of calculating hosiery shipping case dimensions. U S Bur Stand Circ 169:1-37 '24
Standardization of hosiery box dimensions. C: W. Schoffstall and E. M. Schenke. il U S Bur Stand Tech Pa 253:157-69 '24

HOSIERY machines

Banner automatic hosiery machine. G. R. Merrill. il diags Textile World 67:2303+, 4003+; 68:357+ Ap 4, Je 20, Jl 18 '25
Banner split-foot hosiery machine. il Textile Col 47:727 N '25
Striper for hosiery. il Textile World 66:3595 D 20 '24

HOSIERY mills

Chattanooga to produce full-fashioned hosiery. D. G. Woolf. Textile World 68:351-2 Jl 18 '25
Real silk hosiery mill in Indianapolis. J: R. Poteat. il Textile World 67:1969+ Mr 21 '25
Special design for hosiery mill on Pacific coast. J: R. Poteat. il Eng N 93:707-8 O 30 '24

Employees

Wages and hours of labor in the hosiery and underwear industry, 1907 to 1924. U S Bur Labor Statistics Bul 376:1-59 '25; Excerpt. Monthly Labor R 19:538-44 S '24

Management

Development of a modern hosiery plant. S. E. Thompson and H. T. Rollins. charts Mech Eng 46:752-64 pt 2 N '24; Excerpts. Textile World 67:1389+ F 21 '25
Graphic control in a small hosiery mill. W. E. Haseltine. Management & Adm 8:161-6 Ag '24
Handling production problems. H: O. Lowell. chart Textile World 65:1311+, 1997+ F 16, Mr 2? '24
How we rid our factory of dust, steam, and fumes; Phoenix hosiery company. C: Bindrich. il Factory 34:986+ Je '25

Power

Power-factor correction in hosiery mill. E. N. Dittenhofer. Elec W 86:365-7 Ag 22 '25

HOSIERY trade

Changing method of distribution tripled sales to retail dealers. H. F. Podhaski. il Textile World 68:649-50 Ag 1 '25
Conditions in the hosiery trade. Economist 99:641-2 O 25 '24
Distribution policy of a hosiery manufacturer. Harvard Business R 3:240-7 Ja '25
Getting dealers to feature your entire line—exclusively; Gordon hosiery department idea. G: P. Hall. Ptr Ink M 11:45-6 S '25
How much hosiery can be sold to retailer direct? Textile World 65:773+ F 2 '24
Next six months and the hosiery and underwear trades. G: E. MacIlwain. Textile World 67:2555+ Ap 11 '25
No overproduction of hosiery? L: R. Keeffe. Textile World 66:3335+ D 6 '24
Novelties in hosiery should dominate 1925. Textile World 67:1011+ F 7 '25
Production, orders and stocks of hosiery for September 1924. Comm & Fin Chr 119:2473-4 N 29 '24
Round two in fight against house-to-house salesmen. Ptr Ink 131:73-4+ My 7 '25
Seek increase in infants hosiery tariff. Textile World 65:359-60 Ja 19 '24
Selling American hosiery abroad. U S Bur For & Dom Com Trade Information Bul 236:1-19 '24
Severe competition features hosiery year. Textile World 65:935+ F 2 '24
Trade commission orders abandonment of price maintenance of Holeproof hosiery co., of Milwaukee. Textile World 67:3991 Je 20 '25
Why our business didn't suffer when we discontinued our guarantee. E: Freschl. il Sales Management 7:1455-6+ S '24

Accounting

Cost accounting. J: A. Wild. 96p Gee & co., ltd., London '24

Advertising

Gotham hosiery gets dealers to do more local advertising. G: H. Wicker. Ptr Ink M 10:56+ F '25
Iron Clad's reward for consistency in advertising. R. J. Klaiber. Ptr Ink 128:148+ S 25 '24
This program secured 2,500 dealers for us in 1924. R. J. Klaiber. Ptr Ink 130:10+ Mr 26 '25

HOSPITAL social work

Importance of follow-up work in contagious diseases. A. Levinson. Nation's Health 6: 763-4 N '24
Relation of hospital social work to public health nursing. M. M. Davis, jr. Nation's Health 7:249-51 Ap '25
Uses of volunteers in the hospital social service department. J. Schoenfeld. Nation's Health 6:248-9+ Ap '24

HOSPITALS

Building exits code applicable to hospitals, sanitariums, and corrective institutions. Safety Eng 49:263-4+ Je '25
Cadet hospital, United States military academy, West Point, N.Y. il plans Am Arch 128:87-90, pl 200-3 Jl 29 '25
Canada works out standards for community hospitals. plans Nation's Health 7:270-1 Ap '25
Cancer becomes a health objective in St Louis. M. A. Ittner. il Nation's Health 6: 760-2 N '24
Color in the operating room. P. J. Flagg. Arch Rec 57:450-3 My '25
Crippled children cared for on nation wide scale. S. P. Moore. il plan Nation's Health 7:229-32+ Ap '25
Hospitals and the fire hazard. W: D. Crow. il Safety Eng 50:187-98 O '25
Industrial hospital in New York. H: Woods, jr. Am Ind 24:35 Jl '24
Interrelationships of hospital and community. Nation's Health 7:137-48 F '25
Lawrence memorial hospital, Medford, Massachusetts. E: F. Stevens. il plans Arch Rec 55:493-7 My '24
Los Angeles general hospital. Am Inst Arch J 13:276 Jl '25
Making convalescent children happy in a hospital. E. Hornor and A. Levinson. il Nation's Health 7:592-4 S '25
Manchester isolation hospital. H. A. Streeter. il Nation's Health 6:465-6 Jl '24
New surgical pavilion at Roosevelt hospital, New York city. Arch & Bldg 56:94+, pl 201-2 O '24
New York's great medical center. M. Wilcox. il plans Arch Rec 58:101-15 Ag '25
Railroad hospitals on ten roads. il Ry Age 79: 102-3 Jl 11 '25
Research and educational hospitals of the state of Illinois. A. N. Rebori. il plans Arch Rec 58:301-13 O '25

HOSPITALS—*Continued*
Second preliminary competition for 17th Paris prize, Society of Beaux-arts architects; a United States veterans' hospital. Am Arch 125:444-6 My 7 '24
Smaller civil architecture of England; Berkeley's hospital, Worcester. R. W. Ramsdell and H. D. Eberlein. il plans Arch Forum 41: 67-72 Ag '24
Structure and facilities of a modern hospital; Wisconsin state institution at Madison. A. Peabody. il diags plans Eng N 92:608-11 Ap 10 '24
Union memorial hospital, Baltimore, Md. Arch & Bldg 56:27, pl 68-72 Mr '24
Victory memorial hospital, Waukegan, Ill.; views and plans. Am Arch 126:pl 38-40 Jl 30 '24

See also Ambulances; Clinics, Industrial; Medical service, Industrial; Nurses' homes; Radio telephone in hospitals; Tuberculosis, Hospitals and sanatoriums for

Directories

American hospital digest and directory. Crain pub. co., Chicago '23

Electric equipment

Electricity rules in new Michigan university hospital. A. G. Fischer. Pub Serv Management 39:43 Ag '25
Hospital comfort; Hotpoint-Falco cooking equipment. il Electrician 95:358+ S 25 '25
University of Michigan has a completely electrified hospital. Elec W 86:408 Ag 29 '25

Equipment

Engineering equipment of a large hospital. A. H. Barker. Engineering 120:511-12 O 23 '25
Most modern plumbing installation in a most modern hospital; the German Evangelical Deaconess hospital of Chicago. E. W. Riesbeck. il diags Dom Eng 106:20-3 F 9 '24
Sterilizers. E. W. Riesbeck. il diags Dom Eng 106:27-32 Mr 22 '24
Wayne county infirmary and hospital plant at Eloise. il diag Power 62:434-7 S 22 '25

Heating and ventilation

Three jobs in one; heating plant layout of the new German Evangelical Deaconess hospital, Chicago. il diags Dom Eng 106:21-5 Ja 26 '24

Lighting

Hospital operating room lighting with reproduced daylight. N. Macbeth. il diags plans Illum Eng Soc 18:846-54; Discussion. 854-60 N '23

Management

First steps in organizing a hospital. J. J. Weber. 205p Macmillan '24
Food service scheme of Montefiore hospital, New York city. W: H. Livingston. il Nation's Health 6:239-40+ Ap '24
Improved methods in hospital management. G. W. Curtis. 176p Hospital service exchange, Santa Barbara, Calif. '24

HOT bed. See Rolling mills—Equipment

HOT blast stoves. See Blast furnace stoves

HOT boxes. See Cars—Bearings

HOT springs
Hot spring water from Clifton, Arizona. R. S. Everit. Econ Geol 20:291-2 My '25

HOT water heating
Back to first principles; plain answers to direct questions on present-day heating and ventilating practice. T. W. Reynolds. diags Heat & Ven 21:61-3 Ja; 59-61 Mr; 59 O; 59-61 N; 54-5 D '24; 22:57-9 Ja; 72-4 Ap; 65-7 Je; 75-81 S '25; Discussion. 22:81-2 Ag '25
Dissipation of heat by bare iron pipes. F. E. Giesecke. Heat & Ven 22:54-9 N '25
Electrically heating an industrial plant. P. H. Falter. il Elec W 83:145 Ja 19 '24
Facts on hot water and steam central heating systems. E. W. Riesbeck. il diags plans Dom Eng 109:33-4+ D 6 '24
50,000 years of heating. E. W. Riesbeck. diags Dom Eng 110:30+ Ja 17 '25
Forced hot water heating. J. Mackay. diags Dom Eng 111:25+ My 9 '25
Group heating of institutions and colleges; forced circulation of hot water. R. T. Kern. Am Soc Heat & V E J 29:639-46 N '23
Heating and hot water work; some of the problems and difficulties arising in practice. F: W: Dye. 192p Spon '24
Heating group apartments. C: L. Hubbard. il plans Dom Eng 112:24-6+ S 12 '25
Heating systems for cottages and bungalows. A. G. King. diags plan Dom Eng 105:316-19 N 17 '23
Hot-water for greenhouse heating. F. J. Elder. Am Soc Heat & V E J 30:619-26 S '24
Hot water heating for a modern residence. A. G. King. il plans Dom Eng 105:414-18 D 1 '23
New central heating plant of Queen's university and Kingston general hospital; a combination steam and hot water supply. L. M. Arkley and W. P. Wilgar. il diags plan Heat & Ven 20:48-51 D '23
Problems affecting hot water piping and fittings in heating plants. S. H. Woodbridge. diags Heat & Ven 20:45-7 D '23; Same. Sanitary & Heat Eng 102:76-7+ Ag 8 '24
Solving a hot water heating problem. J: K. Raymond. Dom Eng 105:472-4 D 8 '23
Summer care of heating plants. E. Williams. diags Dom Eng 112:17 Jl 11 '25
Symposium on hot water systems for heating industrial plants. Heat & Ven 21:63+ Mr '24
Training of aircraft apprentices at Halton camp. il diags plans Engineer 137:139-41, 148 F 8 '24
Warming buildings by hot water. F: W: Dye. 3d ed., rev. 291p Spon '23

See also Radiators

Panel system

Rise of panel heating. il diags Heat & Ven 21:63-4 N '24
What is panel heating? il Dom Eng 109:25-6 D 13 '24

Tables, calculations, etc.

Details of hot water heating installation. diags Dom Eng 109:44+ O 11 '24
Effect of temperature upon the friction of water in pipes. F. E. Giesecke. Am Soc Heat & V E J 30:747-52 D '24; Abstract. Heat & Ven 22:71-3 F '25; Discussion. Am Soc Heat & V E J 31:208-9 Mr '25
English rule for figuring hot water radiation. F: W. Dye. Heat & Ven 21:42 D '24
Heating by hot water. Ind Management (Lond) 10:298-9 N 29 '23
How shall I heat my house? A. G. King. il plans Dom Eng 107:28-30+ Ap 12 '24
New home-study course in gravity steam and water heating. diags Heat & Ven 22:58-65+ Ap; 61-8 My; 57-62 Je; 53-60 Jl; 57-62+ Ag; 75-81 S; 62-5 O; 60-2 N '25
Round table; six drawings on the hot water heating layout for a small bungalow. diags Dom Eng 110:26+ Mr 14; 111:20-2 Ap 11 '25
Short, practical method of designing gravity water heating systems. F. E. Giesecke. diags Heat & Ven 21:41-7 Ja; 59-61 F; 47-51 Ap; 45-50 Je; 53-5 Ag; 52-7 O '24; 22:60-7 Ja '25

Testing

Comparative tests of heating systems; report of the heat utilization committee. Power 60:783-4 N 11 '24
Test for hot water heating system. E. Williams. il diags Dom Eng 112:24-6+ Ag 8 '25

HOT water heating, Natural
Natural hot water heating; artesian hot water wells, Boise, Idaho. il Dom Eng 112: 16-17+ Ag 22 '25

HOT water supply
Advise the use of safety valves for hot water boilers. il Nation's Health 7:426-7 Je '25

HOT water supply—*Continued*
Brass and copper for water service and plumbing pipe. W: G. Schneider. Am Water Works Assn J 14:81-7; Discussion. 87-106 Ag '25; Abstracts. Eng N 94:570-1 Ap 2 '25; Pub Works 56:162 My '25
By-passing. G: Smeaton. diags Dom Eng 108: 52 Ag 16 '24
Check valves on services. Am Water Works Assn J 11:215-18 Ja '24
Design and arrangement of mains for hot water supply. H. G. Cathcart. plan Heat & Ven 22:86-7 S '25
Domestic hot water supply. S: B. Chandler. Gas J (Lond) 164:781-2 D 19 '23
Domestic hot water supply. D. Yule. Gas J (Lond) sup 4:17-18 Ja 28 '25
Effective area of water pipes. J. N. McDonald. il Bldg Age 47:106-7 Jl '25
Ewart's "califont"; hot-water supply for small houses. diag Gas J (Lond) sup 3:27-8 F 27 '24
Fundamental principles in water circulation. A: W. Barnes. diags Dom Eng 113:23-4+ O 31 '25
Gas-heated domestic hot-water supply. T. F. C. Potterton. diags Gas J (Lond) 165:31-2 Ja 2 '24
Hot water and refrigeration in group apartments. C: L. Hubbard. il diag Dom Eng 112:23-4 S 26 '25
Hot water apparatus and the application of the gas boiler and circulator. F: W. Dye. diag Gas J (Lond) sup 3:32, 50, 81-2, 98-9, 115-16, 154-5, 173-5, 252-4; sup 4:58-9, 116-18, 159, 174 F 27-Je 25, Ag 27-S 24, D 31 '24, Mr 25, My 27, Jl 29-Ag 26 '25; Correction. sup4:196 S 30 '25
Hot water storage tanks. (Simplified practice recommendation no. 25) 10p U.S. Bur. of stand., Washington '25
Hot water supplies—successes and failures. F. B. Bone. Gas J (Lond) sup 3:122 Je 25 '24
How a storage system campaign was made successful. W. H. Van Riper. il Gas Age 56: 55-6+ Jl 11 '25
New way to combat rusty water and excessive corrosion; the Star Dee rust preventor. il diags Sanitary & Heat Eng 103:161-2 Mr 6 '25
Results of hot water service tests, conducted between 1911 and 1920. N E Water Works Assn J 39:92-3 Mr '25; Same. Eng & Contr (W W) 64:112-13 Jl 8 '25
Should hot water tanks be insulated? R. H. Heilman. il Sanitary & Heat Eng 102:370-3+ N 28 '24
Simplification of hot water storage tanks. Power Pl Eng 28:276 Mr 1 '24
Some hot water supply hints. Bldg Age 46: 195 N '24
Some phases of precipitation. H: A. Call. Sanitary & Heat Eng 104:220-1 O 2 '25
Supporting your sales organization with proper water heater installations. G. C. Carnahan. diags Am Gas Assn Commercial sec v 5:686-701 '23
Temperatures and pressures in domestic hot water heating tanks. J. Smith. Sanitary & Heat Eng 104:106-8 Ag 21 '25
Value of insulating hot water circulating lines. Heat & Ven 21:72-3 S '24
Various ways of preventing corrosion in hot water supply systems. C. R. Texter. diags Sanitary & Heat Eng 102:329-31+ N 14 '24

See also Boilers, Range; Electric water heaters; Gas water heaters; Plumbing: Water heaters

Safety devices and measures

Safeguarding hot water installations. C. Smith. il Am Water Works Assn J 11:88-92 Ja '24
Safety devices for tank water heaters. F. A. Woodhead. Am Gas J 123:264+ S 26 '25

Standards

Adopt regulations governing standardization of tanks. diags Sanitary & Heat Eng 101: 247-8 Ap 18 '24
Adoption of simplified practice recommendation for hot-water storage tanks. diag Heat & Ven 21:82 Jl '24; Eng & Contr (W W) 62: 79:Jl 9 '24
Department of commerce calls conferences to discuss standardization of hot water storage tanks. C. C. Lanman. diag Dom Eng 112:18-19+ S 12 '25; Same, without diag. Sanitary & Heat Eng 104:144-5 S 4 '25

HOTELS

Alamac hotel, New York. Arch & Bldg 56:9, pl 26-30 F '24
Amazing hotel-building progress in the South. E. J. Williamson. il Manuf Rec 86:177-83 pt 2 D 11 '24
Architect and engineer unite in design of hotel. G. H. Lippert. diags Eng N 92:813 My 8 '24
Atlanta-Biltmore hotel, Atlanta, Ga. Arch & Bldg 56:54, pl 114-19 Je '24; Same. Eng & Contr (Bldgs) 62:214 Jl 23 '24
The Berkeley-Carteret, Asbury Park, N.J. il Bldg Age 47:127 Ap '25
Berkeley-Carteret hotel, Asbury Park, N.J. Arch & Bldg 57:88, pl 213-16 O '25
Building a twelve-story concrete structure in zero weather; Chateau Lake Louise. il Ry Age 78:1651-2 Je 27 '25; Same. Eng & Contr (Bldgs) 64:193-4 Jl 22 '25
Capacity of Chateau Lake Louise increased. il Ry R 76:609-10 Mr 28 '25
Chicago Allerton house. P. H. Ogden. il Arch Forum 42:313-16, pl 58-60 My '25
Construction of C.P.R. hotel at Lake Louise. il Can Eng 49:243-4 Ag 25 '25
Coral Gables Inn, Coral Gables, Miami, Florida. il Arch Rec 57:327-41 Ap '25
Hotel at 120 West 44th street, New York city. Arch & Bldg 57:83, pl 196-8 S '25
Hotel Bermudiana, Hamilton, Bermuda. il (front) Arch & Bldg 57:31, pl 79-80 Ap '25
Hotel Biltmore, Los Angeles. il Arch & Bldg 55:118-19, pl 234-8 D '23
Hotel Dennis, Atlantic City, N.J. Arch & Bldg 57:87, pl 206-10 O '25
Hotel design and equipment. il plans Eng & Contr (Bldgs) 62:202-7 Jl 23 '24
Hotel reference number of Architectural forum. Arch Forum 39:195-274 N '23
Hotel Senecterre, Paris. C. H. Preston. il Arch Forum 42:353-8 My '25
Hotels in Switzerland. Bradstreet's 52:695 O 25 '24; Same. Economist 99:529-31 O 4 '24; Same. Econ W n s 28:626-7 N 1 '24
Madison hotel, New York city. Arch & Bldg 56:112-13, pl 229-31 D '24
Mayflower hotel, Washington, D.C. Arch & Bldg 57:32+, pl 83-4 Ap '25
Nicollet hotel, Minneapolis, Minn. Arch & Bldg 56:106+, pl 222-4 N '24
Park Chambers hotel, New York city. plan Arch & Bldg 57:41-2, pl 103-4 My '25
Reconstructed Chateau Frontenac, Canadian Pacific Ry. doubles capacity. il Ry R 75: 726-31 N 8 '24
Roosevelt hotel, New York. il plan Arch Forum 41:277-84, pl 73-6 D '24
Roosevelt hotel, New York city. il (front) Arch & Bldg 56:101-2, pl 205-10 N '24
Selling trade-marked products through hotels. F: C. Russell. Ptr Ink 125:77-8+ D 20 '23
Sevilla-Biltmore hotel, Havana, Cuba. Arch & Bldg 56:29, pl 78-81 Ap '24
Small salon, Hotel Gouthiere, Paris. il plans Arch Forum 43:57-62 Jl '25
Spanish architecture in the modern hotel; Casa de Manana, La Jolla, Cal. B. Pickett. il Arch Forum 43:209-12, pl 62-4 O '25
West Virginian hotel, Bluefield, West Virginia. il plans Arch Forum 41:181-4 O '24
Worth-while water; the Sovereign hotel, Chicago, provides a swimming pool for its patrons and pure water for drinking purposes. F. Knox. il Sanitary & Heat Eng 100:430-1+ D 28 '23

See also Apartment hotels; Dining rooms; Kitchen utensils; Radio telephone in hotels; Restaurants; *also* Tokio, Japan—Hotels; Valeria home, Westchester county, New York

HOTELS—*Continued*

Advertising

Europe advertises itself on American luggage by the hotel sticker. W. L. Larned. il Ptr Ink M 11:30-1+ N '25

Price of keeping your public in ignorance. A. Stote. Ptr Ink 128:136+ S 25 '24

Biography

International who's who among hotel men. 1924-25 ed. Ahrens pub. co., New York '24

Designs and plans

Atlanta-Biltmore Hotel, Atlanta, Ga. il plans Am Arch 126:183-4, pl 65-72 Ag 27 '24

Brown hotel, Louisville, Ky.; views and plans. Am Arch 126: pl 57-61 Ag 13 '24

Building a twenty-story hotel over a railroad yard; the Roosevelt, New York. M. G. Farrell. Bldg Age 47:99-103 Ja '25

Greystone, a hotel at Bedford, Ind.; views and plans. Am Arch 126:121-2 Jl 30 '24

Hotel Carlton Terrace, New York city. Arch & Bldg 56:3, pl 11-14 Ja '24

Hotel Claman, West 44th st, New York; views and plans. Am Arch 124:436h-k, 439 N 7 '23

Hotel for the typical American city. W. L. Stoddart. il plans Arch Forum 39:245-52 N '23

Hotel Gibson, Cincinnati, Ohio. Am Arch 125: 472a-f My 21 '24

Hotel Greystone, Broadway at 91st street, New York city; view and plan. Arch & Bldg 56:pl 41-2 F '24

Hotel plan. W. S. Wagner. diags plan Arch Forum 39:211-18 N '23

Hotel Royal Bermudiana, Hamilton, Bermuda. il plan Arch Forum 41:43, pl 13-16 Jl '24

Hotel Sylvania, Philadelphia, Pa. Arch & Bldg 56:2, pl 6-10 Ja '24

Lake Shore Drive hotel, Chicago, Ill. Am Arch 126:435-7, pl 149-52 N 5 '24

Mount Royal hotel, Montreal, Hotel Hamilton, Washington, D.C., and others; views and plans. Arch Forum 39:pls 85-96 N '23

New Bedford hotel, New Bedford, Mass. Am Arch 125:60a-d Ja 16 '24

Princeton inn, Princeton, N. J. il plans Arch Forum 42:69-74, pl 15-16 F '25

Prize building of 1924; the Shelton hotel. Bldg Age 47:108-10 Je '25

Project for lake front development of the city of Chicago; Grant hotel. E. Saarinen. il plans Am Arch 124:511-14 D 5 '23

Roosevelt hotel, New York. plans Arch Forum 39:238-9 N '23

The Roosevelt, New York. M. G. Farrell. Am Arch 126:427-34, pl 145-8 N 5 '24

Shelton hotel, New York. C. Bragdon. il plans Arch Rec 58:1-18 Jl '25

Wade Park Manor hotel, Cleveland. Arch Forum 39:pls 80-4 N '23

Electric equipment

Electrified hotel kitchen. R. I. Smith. Elec W 86:277 Ag 8 '25

Modern hotel electrification; new Statler hotel in Buffalo. K. Parker. il diags plan Elec W 84:404-10 Ag 30 '24; Same. Eng & Contr (Bldgs) 63:199-204 Ja 28 '25

Oklahoma hotel contracts for central-station power. il Elec W 85:1136 My 30 '25

Employees

Employer-employe relations in hotels. W. I. Hamilton. 158p [bibliog. p. 144-5] Williams & Wilkins co., Baltimore '25

Hotel and restaurant employees agreement in Cleveland. Monthly Labor R 20:105-7 Ja '25

Equipment

Forty years of plumbing; Hotel Savoy, London, England. A. W. Barnes. il diags Dom Eng 108:22-4+ Ag 23 '24; 110:35+ Ja 3 '25

Hotel and restaurant business; the value of such business to the gas company. H. D. Schall. Am Gas J 123:153-4+ Ag 22 '25

Hotel inter-communication; the efficient service rendered by a telautograph system of communication. R. S. Frodin. il Am Arch 126:207-10 Ag 27 '24

Hotels and restaurants offer industrial gas business. W. R. Adams. Gas Age 56:299-300+ Ag 29 '25

Plant at the new hotel Roosevelt. M. G. Farrell. il plans Power Pl Eng 29:122-7 Ja 15 '25

Power plant and refrigeration equipment. J. F. Musselman. il plans Arch Forum 39:254-8 N '23

Recording service in the hotel Roosevelt engine room. il Power 61:206-8 F 10 '25

Report of the committee on hotel and restaurant uses of gas. J. B. Allington. Am Gas Assn Industrial Gas sec v 5:755-7; Discussion. 757-9 '23

Sanitation and water supply in the modern hotel. C. R. Place. diags plan Arch Forum 39:265-8 N '23

Seattle's most modern hotel adopts the gas way. il Gas Age 55:275-6 F 21 '25

Selling heavy duty hotel appliances. C. H. French. Am Gas J 122:49-50+ Ja 17 '25; Same. Gas Age 55:203-4+ F 7 '25

Special hotel equipment. A. D. McLean. il plans Arch Forum 39:271-4 N '23

Who to see and what to sell in hotels. Gas Age 55:720+ My 16 '25

Finance

Economics of the hotel project. D. P. Ritchey. Arch Forum 39:219-21 N '23; Same. Eng & Contr (Bldgs) 61:692-5 Mr 26 '24

Hotel companies' profits. Economist 99:912-13 D 6 '24

Heating and ventilation

Hotel heating and ventilating. A. K. Ohmes. il diags Arch Forum 39:259-63 N '23

Laws and regulations

Legal restrictions confronting the hotel architect. F. K. Boland. Arch Forum 39: 222 N '23

Management

Behind the scenes in the convention industry. A. E. Haase. Ptr Ink 132:89-91 Jl 16 '25

Hotel management; principles and practice. L. M. Boomer. 495p [bibliog. p. 481-6] Harper '25

New profession of running a hotel. M. Simons. Forbes 14:553-4+ Ag 1 '24

Service and administration requirements. H. L. Wiggins. chart Arch Forum 39:240-2 N '23

Sizing up a town's buying power before building a hotel. F. A. Dudley. il System 46:559-64+ N '24

Training managers for added responsibility. J: McE. Bowman. il System 45:155-8 F '24

Power

The Benjamin Franklin, Philadelphia's newest hotel, operates oil-burning power plant. il plan Power Pl Eng 29:468-73 My 1 '25

Generated vs. purchased power in various industries; report of Pacific coast electrical association. J Elec 54:415 Je 1 '25

Modernized hotel plant shows saving over purchased power. E. S. Glauch. Power 61: 522-3 Ap 7 '25

Use of purchased power in hotels. W. H. Whitton. il Elec W 84:267-70 Ag 9 '24

HOURS of labor

American federation of labor declares for shorter working day and increased wages. Comm & Fin Chr 121:1870 O 17 '25

Die arbeitszeit in der eisenindustrie. A. v. Bülow. Stahl & Eisen 44:118-20 Ja 31 '24

Carter forsakes 12-hour tour for three 8-hour shifts. Nat Pet N 17:29 Jl 15 '25

Changes in union scale of wages and hours of labor, 1913 to 1924. Monthly Labor R 19: 547-72 S '24

Changes in union scale of wages and hours of labor, 1913 to 1925. Monthly Labor R 21:520-42 S '25

HOURS of labor—*Continued*
Conference of paper box-board manufacturers on shorter working hours, Washington, D.C., May 2, 1924. Monthly Labor R 18:1187-96 Je '24; Excerpt (Address by Secretary Davis). Paper 34:85-6 My 8 '24
Conference, 2d, of paper box-board manufacturers on shorter working hours. Monthly Labor R 20:481-4 Mr '25
Customary working time in the iron and steel industry, 1924. Monthly Labor R 19:544-7 S '24
Deutschland und das washingtoner uebereinkommen über die arbeitszeit. A. Heinrichsbauer. Stahl & Eisen 44:1174-6 S 25 '24
Effect of changes in hours of work on output. O: Lipmann. Monthly Labor R 19:120-4 Jl '24
Effect of short time on speed of production. Monthly Labor R 20:67-8 Ja '25
Eight-hour day in Germany in 1921 and 1922. Int Labour R 8:863-73 D '23
Eight-hour day; report to the International railway congress. Engineering 120:7 Jl 3 '25; Engineer 140:15 Jl 3 '25; Ry Age 79:83-4 Jl 11 '25
Extension of five-day week movement in New York state. Monthly Labor R 21:747-8 O '25
Five-day week. Eng & Contr (Bldgs) 64:953 O 28 '25
Forty-eight hour week and industrial efficiency. P. S. Florence. Int Labour R 10:729-58 N '24
Forty-eight hour week for women and children in industry rejected at referendum in Maine. Comm & Fin Chr 117:2276-7 N 24 '23
48-hour week in industry. J. C. Bowen. Monthly Labor R 17:1305-26 D '23
Hours actually worked by German workers, May, 1924. Monthly Labor R 19:819-21 O '24
Hours and earnings in the paper box-board industry, 1925. Monthly Labor R 21:741-4 O '25
Hours of labour and overtime rates of pay in the principal industries in Great Britain. Int Labour R 12:74-82 Jl '25
Hours of labour in industry; United States. 120p International labour office, Geneva '25
Hours of work and output. O: Lipmann. Int Labour R 9:481-504; Bibliography, 504-6 Ap '24; Abstract. Monthly Labor R 19:120-4 Jl '24
Hours of work in Canada. Int Labour R 9: 387-97 Mr '24
Hours of work in the glass trade. Engineering 117:150-1 F 1 '24
How to succeed with the eight-hour day. K. Harrison. Iron Age 112:1321-2 N 15 '23
Legal restrictions on hours of work in the United States; a reference manual. 125p National industrial conference bd., New York '24
Long hours in steel industry reduced. Iron Age 113:34-41 Ja 3 '24
Mass. cotton mill men argue for and labor leaders against longer working week. Textile World 65:1303-4 F 16 '24
Die neue verordnung über die arbeitszeit. C. Koehne. Elektrotech Zeit 45:77-8 Ja 31 '24
Output under different shift systems in the English glass industry. Monthly Labor R 18: 575-6 Mr '24
Practical abandonment of the eight hour working day in German industry. Econ W n s 27:259-60 F 23 '24
Problems arising from enforcement of Massachusetts minimum wage and 48-hour laws. E. M. Johnson. Monthly Labor R 19:290-5 Ag '24
Proposals relating to working hours and wages submitted to the engineering trade unions. Engineering 119:554 My 1 '25
Rapid progress in shortening hours. G: Smart. Iron Age 114:427-32, 481-3 Ag 21 '24
Recent Italian legislation on hours of labor. Monthly Labor R 18:561-7 Mr '24
Reform of mill working hours. J. J. Davis. Paper 34:951-2 S 11 '24
Regulation of hours of labor in Germany. Monthly Labor R 18:559-61 Mr '24
Regulation of hours of labor in Yugoslavia. Monthly Labor R 20:1257-8 Je '25
Scheduled working hours for women. Monthly Labor R 21:95-7 Jl '25
Shortening hours of labor. Eng & Contr (Bldgs) 61:855-6 Ap 23 '24
Sonderregelung der arbeitszeit in den kokereien und hochofenwerken. E. Hoff. Stahl & Eisen 45:231-5 F 12 '25
Standard and scheduled hours of work for women in industry. U S Women's Bur Bul 43:1-68 '25
State laws affecting working women. charts maps U S Women's Bur Bul 40:1-53 '24
Sweated goods. Economist 101:257-9 Ag 15 '25
Two-shift system for women in English industry. Monthly Labor R 21:548-50 S '25
Union scale of wages and hours of labor, May, 15, 1923. U S Bur Labor Statistics Bul 354: 1-196 '24
Union scale of wages and hours of labor, May 15, 1924. U S Bur Labor Statistics Bul 388:1-234 '25
Wages and hours in American industry. 199p National industrial conference board, inc., New York '25
Wages and hours of labor. Published in monthly numbers of Monthly labor review
Wages and hours of labor in Canada, 1924. Monthly Labor R 20:540-4 Mr '25
Wages and hours of labor in cotton-goods manufacturing, 1924. U S Bur Labor Statistics Bul 371:1-43 '25
Wages and hours of labor in foundries and machine shops, 1923. U S Bur Labor Statistics Bul 362:1-120 '24
Wages and hours of labor in Germany, November and December, 1924. Monthly Labor R 20:832-4 Ap '25
Wages and hours of labor in lumber manufacturing, 1923. U S Bur Labor Statistics Bul 363:1-32 '24
Wages and hours of labor in municipal employment in Massachusetts, July 1, 1924. Monthly Labor R 20:801-24 Ap '25
Wages and hours of labor in the automobile industry, 1922. U S Bur Labor Statistics Bul 348:1-70 '23
Wages and hours of labor in the boot and shoe industry: 1907 to 1924. U S Bur Labor Statistics Bul 374:1-107 '25
Wages and hours of labor in the hosiery and underwear industry, 1907 to 1924. U S Bur Labor Statistics Bul 376:1-59 '25; Excerpt. Monthly Labor R 19:538-44 S '24
Wages and hours of labor in the iron and steel industry, 1907 to 1922. U S Bur Labor Statistics Bul 353:1-174 '24
Wages and hours of labor in the iron and steel industry: 1907-1924. U S Bur Labor Statistics Bul 381:1-163 '25; Abstract. Iron Age 115:1855-6 Je 25 '25
Wages and hours of labor in the men's clothing industry 1911-1924. U S Bur Labor Statistics Bul 387:1-51 '25
Wages and hours of labor in the paper and pulp industry, 1923. U S Bur Labor Statistics Bul 365:1-142 '25
Wages and hours of labor in the slaughtering and meat-packing industry, 1923. U S Bur Labor Statistics Bul 373:1-117 '25; Abstract. Monthly Labor R 18:1024-34 My '24
Wages and hours of labor in woolen and worsted goods manufacturing, 1924. U S Bur Labor Statistics Bul 377:1-36 '25
Wages, hours and employment in American manufacturing industries, July, 1914-January, 1924. 104p National industrial conference bd., New York '24
We change the working-day, not the payroll. P. M. Duesing. Factory 35:196-8 Ag '25
Wirtschaftliche auswirkung der achtstundenschicht in hüttenwerken. E. Hofmann. Stahl & Eisen 44:1101-5 S 11 '24
Working of the eight-hour day act in Belgium. Int Labour R 12:402-8 S '25

HOURS of labor—*Continued*
Zur frage der arbeitszeit für die feuer-arbeiter der hüttenwerke. M. Schellewald. Stahl & Eisen 44:1446-55 N 13 '24

See also Daylight saving; Fatigue; Holidays; Leisure; Night work; Rest days; Rest periods; Woman—Employment

HOUSE boats
Houseboat White Mallard; views and plan; C. E. Barron, architect. Am Arch 125:122d-h Ja 30 '24

HOUSE decoration. See Interior decoration

HOUSE drainage. See Drainage, House

HOUSE fittings. See Building fittings

HOUSE moving. See Moving of structures

HOUSE organs
Customers' magazine. J. Lightbody. il J Elec 55:202-4 S 15 '25
Export house magazine as a profit-maker. Ptr Ink 132:89-90 Ag 6 '25
House-organ mortality is high, but three out of four survive and make good. G: L. Price. il Ptg Art 45:177-83 Ap '25
House organs—internal and external; report of Pacific coast electrical association. J Elec 54:514-15 Je 1 '25
House organs reducing sales resistance and plant publications aid goodwill spirit. A. J. Hain. il Iron Tr R 76:998-1001 Ap 16 '25
House publications. Published in monthly numbers of Printed salesmanship
Itinerant house magazine; the Indian refining company. Ptr Ink 132:105-6 Ag 13 '25
Just what does the house organ do? C. G. Bigelow. Ptd Salesmanship 46:291-8 N '25
Making the bank magazine succeed. W. E. Walker. Bankers M 108:539, 541-4 Ap '24
1925 dealer house-organ—what goes into it? B. F. Berfield. Ptr Ink M 10:29-31+ Mr '25
Printed matter that capitalizes the newspaper habit. il Sales Management 6:841+ Ap '24
Reviews of house-organs. A. J. Fehrenbach. Inland Ptr 72:285-6, 462-4, 961-2; 73:422-4, 590-2, 750-2, 901-3 N-D '23, Mr, Je-S '24
Selection of house-organ pages. Inland Ptr 72:960a-h Mr '24
Unselfish selling in the dealer house-organ. B. F. Berfield. Ptr Ink M 11:46+ Jl '25
Way clear for trade-mark registration of house-organs. Ptr Ink 128:68+ S 18 '24
What is the life of your sales literature? Autocar binds all sales literature in volumes. R. F. Wood. Ptr Ink M 9:86+ S '24
What should we expect from a house publication? C. G. Bigelow. Ptd Salesmanship 45:389-91 Je '25
When is a house organ worth while? T. D. MacGregor. Burroughs Clearing House 8: 26-8 F '24
Why a subscription price for house-organs? Ptr Ink 130:152+ F 12 '25
Why Marshall Field spends $150,000 a year on a house-organ. D. M. Hubbard. Ptr Ink M 10:41-2 Je '25
Will an exporter's house organ pay? F. S. Phillips. System 46:440+ O '24

See also Employees' magazines

Covers

Cover problem. C. G. Bigelow. Ptd Salesmanship 45:587-92 Ag '25

Directories

House organs of the electrical industry; January 1, 1924. N E L A Bul 11:109-10 F '24
Up-to-date list of house magazines. Ptr Ink 132:81-2+ Jl 2; 125-6 Jl 9; 131-2+ Jl 16; 141-2+ Jl 23; 124-5+ Jl 30; 112-13+ Ag 27 '25 [also printed separately]

Illustration

What kind of illustrations for the dealer house-organ? B. F. Berfield. Ptr Ink M 11: 37-8+ Ag '25

HOUSE organs, Interior. See Employees' magazines

HOUSE painting
Color in its relation to architecture. A. A. Kelly. Bldg Age 46:96+ S '24
House painting, glazing, paper hanging, and whitewashing. A. H. Sabin. 160p Wiley '24
"Paint up" has cash meaning in mine towns. F. L. Adams. il Coal Age 27:603-6 Ap 23 '25
Painting and decorating the bungalow. A. A. Kelly. Bldg Age 46:110+ Ap '24

HOUSEBOATS. See House boats

HOUSEHOLD budget. See Budget, Household

HOUSEHOLD expenses. See Cost of living

HOUSER, J. N.
Mine managers of note. por Eng & Min J 118: 524 O 4 '24

HOUSES

See Apartment houses; Architecture, Domestic; Bungalows; Concrete houses; Cottages; Country houses; Farmhouses; Miners' houses; Tenement houses

HOUSES, Concrete. See Concrete houses

HOUSES, Historic. See Historic houses

HOUSES, Model
Creating the shopping habit among prospective home owners. E. J. Welsh. il plans Bldg Age 46:140-2 N '24
Newspaper enterprise serves better homes cause. E. Warren. il plans Bldg Age 47:106-7 Ja '25

HOUSES, Remodeled
Modernizing old buildings by use of stucco. S: Warren. il Am Arch 126:539-43 D 3 '24
Remodelled house at Terre Haute, Ind. il plan Am Arch 128:240 S 9 '25
Sansom Gardens, a unique living quarter in Philadelphia. E. B. Clark. il Am Arch 128: 27-30 Jl 1 '25
Use for old mansions. il plan Bldg Age 46: 68 My '24

HOUSES, Steel. See Steel houses

HOUSING
Certain differences between "more" and "better." F. Small. Am Inst Arch J 12:81-4 F '24
Community planning and housing. C. S. Stein. il Am Inst Arch J 11:492-3 D '23
Custom-made house; its high cost the penalty of being an exception in a machine-made age. E. F. Lloyd. Annalist 23:241+ F 18 '24
Engineer and housing problems. L. Brandt. Eng Soc W Pa 40:281-7; Discussion. 288-98 N '24
Housing. Published in monthly numbers of Monthly labor review
Housing at home and abroad. Economist 99: 859-60 N 29 '24
In the interest of health how are we to house our people? M. N. Hatfield. il Nation's Health 6:681-3 O '24
Low-rental housing. F. C. Brown. il plans Arch Rec 56:106-16, 206-17, 353-67, 553-65; 57:65-76 Ag-O, D '24-Ja '25
Some suggestions for industrial housing. diags plans Nation's Health 6:419-20 Je '24

See also Apartment houses; Building—Cost; City planning; Company towns; Garden cities; Home ownership; Housing law; Housing projects; Miners' houses; Rent; Tenement houses

Bibliography

Recent books and reports on housing, zoning and town planning. Housing Betterment (N.Y.) p. 316-36 Ag '24

Denmark

Housing situation and building activities in Denmark. Monthly Labor R 18:618-19 Mr '24
Housing situation in Denmark. Monthly Labor R 20:657-8 Mr '25

Esthonia

Esthonia subsidizes home building. H. Seydenbach. Eng N 93:924 D 4 '24

HOUSING—*Continued*

Europe

European housing problems since the war, 1914-1923. 484p $1.50 International labour office, Geneva '24; Summary. Int Labour R 10:277-95, 452-69 Ag-S '24

Housing progress in Western Europe. E. E. Wood. 210p Dutton '23

Finland

Housing for employees in Finland. Monthly Labor R 17:1378-80 D '23

State aid to housing in Scandinavian countries and Finland. Monthly Labor R 19:189-90 Jl '24

France

La construction des groupes d'habitations à loyers modérés de la ville de Paris. P. Razous. plans Génie Civil 86:89-91, 101-5 Ja 24-31 '25

Les habitations à bon marché. P. Razous. Génie Civil 84:156-9, 179-83 F 16-23 '24

Germany

Building activity and housing costs in Germany. Monthly Labor R 19:439-42 Ag '24

Encouragement of rural housing in Germany. Int Labour R 12:83-7 Jl '25

Financing of non-recoverable building costs in Germany. H. Krüger. Int Labour R 11: 39-59 Ja '25

German law for protection of tenants. Monthly Labor R 17:1158-60 N '23

Housing situation in Germany. Monthly Labor R 21:849 O '25

Gibraltar

Housing conditions in Gibraltar. Monthly Labor R 20:147 Ja '25

Great Britain

Analysis of housing costs in England. Monthly Labor R 20:393-4 F '25

Britain experiments with steel house. V. Delport. il Iron Tr R 76:285-6 Ja 22 '25

British may build cast iron houses. J. Horton. diag Foundry 53:115 F 1 '25

Britons enthusiastic over all-steel houses. J. Horton. il plans Iron Tr R 76:753-4 Mr 19 '25; Same. Blast F & Steel Pl 13:206-7 My '25

Cast-iron houses in England. Can Eng 49:327 S 22 '25

English all steel house; Telford system. plans Eng & Contr (Bldgs) 63:877-80 Ap 24 '25

English experiments with steel as a housing material. Monthly Labor R 20:394-5 F '25

Houses of the workers. A. Sayle. 257p [bibliog. p. 239-57] T. Fisher Unwin, London; H. W. Wilson co., N.Y. '24

Housing blunder. E. Benn. Electrician 93:72 Jl 18 '24

Housing shortage and housing activities in Great Britain. Monthly Labor R 17:1160-2 N '23

Housing; the facts and the future. H. Barnes. 450p [bibliog. p. 429-30] E. Benn, ltd., London '23; Review. F: L. Ackerman. Am Inst Arch J 12:86-8 F '24

National housing manual. H: R. Aldridge. 526p National housing & town planning council, London '23

New housing handbook. R: L. Reiss. 199p [bibliog. p. 193-5] P. S. King & son, ltd., London '24

Report of National house building committee, Great Britain. Monthly Labor R 19:185-7 Jl '24

India

Infant mortality and housing conditions in India. Monthly Labor R 21:177-9 Jl '25

London

Some London housing developments. H. J. Birnstingl. il plans Arch Forum 39:275-80 D '23

New South Wales

Government aid to housing in New South Wales. Monthly Labor R 20:655-7 Mr '25

New York (city)

Housing situation in New York city. Comm & Fin Chr 120:1385-7 Mr 21 '25

Housing situation in New York city. Monthly Labor R 17:1376-8; 20:906-9 D '23, Ap '25

Housing situation in New York city as it affects the working classes. W. I. King. Arch Rec 58:180-5 Ag '25

Low-rental apartment, an economic fallacy. F. C. Brown. il plans Arch Rec 55:405-15, 588-97; 56:65-7 My-Jl '24

New York puzzle. C. S. Stein. Am Inst Arch J 12:84-5 F '24

Report of New York state housing commission. Monthly Labor R 20:1371-5 Je '25

Step towards slum clearance; the garden tenement of the Empire mortgage company on the East side of New York. J: T. Boyd, jr. il plans Arch Rec 57:204-16 Mr '25

Tax exemption and housing progress in New York city. Monthly Labor R 18:1336-8 Je '24

See also Metropolitan life insurance company

New York (state)

New York (state) Commission of housing and regional planning report. 102p J. B. Lyon co., printers, Albany '23

Present status of housing situation in New York. Monthly Labor R 18:615-17 Mr '24

Norway

Housing in Christiania. N. Hammerstrand. il plan Am Inst Arch J 11:431-8 N '23

Philadelphia

Housing in Philadelphia. Monthly Labor R 17: 1155-8 N '23

Housing situation in Philadelphia. Monthly Labor R 19:1133-5 N '24

Russia

Housing in Russia. Am Inst Arch J 12:88 F '24

Housing problems in soviet Russia. Int Labour R 12:245-61 Ag '25

Scotland

Progress of state-aided housing in Scotland. Monthly Labor R 21:626-7 S '25

State provision of housing in Scotland. Monthly Labor R 19:652-4 S '24

South Africa

Housing in South Africa. Monthly Labor R 20:658 Mr '25

Sweden

Housing in Sweden; state subsidies. N. Hammarstrand. il plan Am Inst Arch J 12:19-22, 25-6 Ja '24

State aid to housing in Scandinavian countries and Finland. Monthly Labor R 19:187-8 Jl '24

United States

Building permits in principal cities of the United States in 1923. Monthly Labor R 18: 1318-35 Je '24

Building situation. 31p National industrial conference bd., New York '24

Future of low-rental housing in America. F. C. Brown. il plans Arch Rec 57:65-76 Ja '25

Housing in the United States. J: M. Gries. J Land & Pub Util Econ 1:23-35 Ja '25

Housing situation in the United States. 52p International labour office, Geneva '25

Raising the nation's housing standards. J: M. Gries. il Comm & Fin 14:1539-41 Ag 12 '25

Vienna

Housing problem in Vienna. Monthly Labor R 19:1136 N '24

HOUSING, Cooperative

Cooperative housing in New York city. Monthly Labor R 18:900 Ap '24

HOUSING finance
Financing houses on small payment plan. Bldg Age 47:137 Ja '25
Financing of non-recoverable building costs in Germany. H. Krüger. Int Labour R 11: 39-59 Ja '25
Housing in Sweden; state subsidies. N. Hammarstrand. il plan Am Inst Arch J 12:19-22, 25-6 Ja '24
How to raise money for small home owners. K. F. Blandin. Bldg Age 46:183-4 N '24
Real estate finance and the nation's welfare. Comm & Fin Chr 119:2226-9, 2344-7, 2458-62 N 15-29 '24

See also Apartment houses—Cooperative ownership; Building—Finance; Building loans; Housing projects

HOUSING laws
English housing legislation. M. Whitman. J Land & Pub Util Econ 1:504-9 O '25
German legislation on industrial dwellings. Int Labour R 12:65-73 Jl '25
Housing density regulation. R. Whitten. Am Soc C E Pro 51:207-13 F '25

See also Building laws and regulations; City planning—Zone system; Rent

HOUSING projects
Building a bungalow city in 18 months. H. C. L. Jackson. il plans Bldg Age 46:83-8 Ap '24
Building homes by the thousand; Louis Gold. E. Raymond. il plans Bldg Age 46:61-3 S '24
Cincinnati's garden village nears completion. B. Marquette. il Nation's Health 7:324-6 My '25
City that is set on a hill; a description of the remarkable Watkins development. il plans Bldg Age 45:36-47+ D '23
La construction des groupes d'habitations à loyers modérés de la ville de Paris. P. Razous. plans Génie Civil 86:89-91, 101-5 Ja 24-31 '25
Developing a hill site. il plans Bldg Age 46: 96-9 Ap '24
From sand dunes to a magic city. C: G. Peker. il plans Bldg Age 47:78-87+ Jl '25
Garden homes at low cost; brick houses at Sunnyside, New York. M. Prosser. il plans Bldg Age 47:98-101 Mr '25
Housing problem. Arch Forum 41:88 Ag '24
Large, low priced housing development at Detroit. il Eng & Contr (Bldgs) 62:1193-4 N 26 '24
Life insurance company acts to relieve housing shortage. il plan Nation's Health 6:481-3 Jl '24
Metropolitan houses in Long Island City. Arch & Bldg 56:42-4, pl 99-105 My '24
100 houses in 150 days. il plan Bldg Age 46: 58-9 Je '24
Step towards slum clearance; the garden tenement of the Empire mortgage company on the East side of New York. J: T. Boyd, jr. il plans Arch Rec 57:204-16 Mr '25
Sunnyside garden community well under way. il Nation's Health 7:346-7 My '25
Touch of the suburbs brought to the city. il plans Bldg Age 46:47-9 Ag '24
Unusual building development by clever planning in Los Angeles. R. M. Singer. il plans Bldg Age 47:94-6 F '25

See also Apartment houses; Model towns

Cost

See Building—Cost

HOUSING projects, Company
Bethlehem Park—an industrial village. il Iron Age 113:1160-1 Ap 17 '24
C. P. R. section houses have pleasing appearance. G: E. Boyd. plans Ry R 77:199-200 Ag 8 '25
Company houses in Massachusetts. Textile World 66:469 Jl 26 '24
Company housing in the cotton textile industry in Massachusetts. Monthly Labor R 19: 437-8 Ag '24
Factors of industrial housing; plans adopted for typical communities and cost data on 88 important projects. R. J. Waldo. il Management & Adm 10:251-4 N '25
Factory town to order near Sturgis, Mich. K. B. Murray. il plans Bldg Age 46:118-22 D '24
Houses at Forest Hills, Long Island, N.Y., for the Cord Meyer development company; views and plans. Arch Rec 58:357-64 O '25
Housing operations of the Bethlehem steel corp. Eng & Contr (Bldgs) 64:934-5 O 28 '25
A job, a home and contentment; settlement at the works of the Whitacre-Greer fireproofing company, Waynesburg, Ohio. J: W. Harrington. il Am Ind 24:5-10 Ja '24
Low rental housing; suburban type. F. C. Brown. il plans Arch Rec 56:106-16, 206-17 Ag-S '24
Plan for industrial community of Alcoa, Tennessee. R. F. Ewald. il plan Eng N 92:364-7 F 28 '24
Steel corporation has house-owning plan. il Coal Age 27:218 F 5 '25
Tieing the workman to his job; Whitacre-Greer fireproofing co., Waynesburg, Ohio. il Brick & Clay Rec 66:978-80 Je 23 '25

See also Company towns; Mining towns; Model towns

HOUSING projects, Cooperative

See Apartment houses—Cooperative ownership; Housing, Cooperative

HOUSING projects, Government
Low rental housing; community planning and the unit suburban group apartment, Bridgeport, Conn. F. C. Brown. il plans Arch Rec 56:353-67 O '24
Post-war housing at Ruislip-Northwood. il plans Am Inst Arch J 12:225-9 My '24
Some London housing developments. H. J. Birnstingl. il plans Arch Forum 39:275-80 D '23

HOUSTON, Texas
City of magic growth. S. Bell. il Comm & Fin 13:867+ Ap 30 '24
Houston's development as a navigation center. B. Rule. il Comm & Fin 13:861-3+ Ap 30 '24
Liquid gold, white gold, and Houston. G. Garrison. il Comm & Fin 13:849+ Ap 30 '24

Rapid transit

Plan for straightening out transportation tangle. Elec Ry J 62:920-1 N 24 '23
Service changes and jitney regulation recommended. Elec Ry J 62:873 N 17 '23
Speed up cars and stop jitneys is recommendation of Beeler report. Elec Ry J 63: 407-10 Mr 15 '24

HOUSTON cotton exchange and board of trade
Fifty years a cotton market. S. D. Wasson. 110p Rein ptg. co., Houston, Tex. '24

HOWE, Elias, 1819-1867
Famous machinists of history. H. H. Manchester. Am Mach 62:268 F 12 '25

HOWELL, John White, 1857-
Edison medal awarded to John White Howell. por Am Inst E E J 44:87 Ja '25; Elec W 84:1323 D 20 '24
Edison medal presented to John White Howell; addresses of J: W. Lieb and J: W. Howell. Am Inst E E J 44:309-11 Mr '25; Same. Stevens Ind 42:30-4 Mr '25

HOWELL-Barkley bill. See Railroad law

HUDSON Bay railway
Condemns Hudson Bay route. D. W. McLachlan. Can Eng 46:580 Je 3 '24
Hudson Bay Ry. has some advantages. Can Eng 46:616 Je 17 '24

HUDSON motor car company
Chapin got an early start and kept ahead. O. D. Foster. il Forbes 14:151-3+ My 10 '24

HUDSON navigation company
Reorganization plan. Comm & Fin Chr 120: 2556-7 My 16 '25

HUDSON river
Hudson river ice-harvest—1924. Refrig W 59:23-4 Mr '24
Railroad attempts to stop reservoir construction. Eng N 95:155 Jl 23 '25

HUDSON river bridge, Bear Mountain
Bear Mountain Hudson river bridge. il Sci Am 131:97 Ag '24
Bear Mountain suspension bridge over Hudson river. H. C. Baird. il diags Eng N 93: 914-18 D 4 '24
Construction progress on Bear Mountain bridge. il Eng N 93:672-3 O 23 '24
Le pont suspendu de 497 mètres de portée de Bear Mountain sur l'Hudson (New York, E.-U.). il diags Génie Civil 86:277-81 Mr 21 '25
Some engineering aspects of a toll bridge project. H. H. Sherwin. maps Eng N 94: 778-9 My 7 '25
Spanning the Hudson river at Bear Mountain. V. H. Vandiver and A. S. Taylor. il Good Roads 66:73-5 Mr '24
Towers of first suspension bridge over Hudson river completed. il Eng N 92:568-9 Ap 3 '24
Unusual anchorage detail for suspension bridge. diags Eng & Contr (Bldgs) 61:661 Mr 26 '24

HUDSON river bridges
Mid-Hudson bridge, Poughkeepsie, N.Y. 6p, 9 fold pl New York (state). Dept. of public works, Albany '24
Mid-Hudson bridge to be 1500-ft. suspension span. il diag Eng N 92:452 Mr 13 '24
Projet de pont suspendu de 1 036 mètres de portée, sur l'Hudson, à New-York. diags Génie Civil 86:440-1 My 2 '25

Bibliography
Bridging the Hudson river at New York city; annotated bibliography. A. S. Couillard. Munic Ref Lib Notes 10:21-40 F 6-Mr 5 '24 [also published separately]

HUDSON River day line
Cutting the fuel bill in two; Hudson River day line. il diag map Marine R 54:79-82 Mr '24

HUDSON river tunnels
Hudson river tunnel progress. Can Eng 45:484 N 13 '23
Proposed subway service to New Jersey railroad terminals. map Ry Age 76:200 Ja 12 '24

HUDSON river vehicular tunnel
Building the Hudson river vehicle tunnel. il diags plan Eng N 92:798-803 My 8 '24
Driving piles for Hudson river tunnel. il Can Eng 46:495-8 My 6 '24
Flushing system advocated for ventilating Holland vehicular tunnel. diags Heat & Ven 22:77-9 Ap '25
Lighting Hudson river tunnels. il Can Eng 46:579 Je 3 '24
New Jersey plans arterial road from Holland tunnel. diags maps Eng N 94:731-3 Ap 30 '25
New route for arterial road from Holland tunnel. map Eng N 95:94 Jl 16 '25
New York engineers discuss vehicular tunnel control. Eng N 92:337+ F 21 '24
Study of lighting for Hudson river vehicular tunnel. B. E. Shackelford and D. W. Atwater. il diags plan Illum Eng Soc 9:638-61 S '24
Vehicle tunnel under Hudson river paved with granite. il diags plan Eng N 95:726-7 O 29 '25

HUDSON'S Bay company
Hudson's Bay company has conquered old age. R. Hawkins. il Am Exporter 94:12-16+ My '24

HUGHES, Charles Evans
Retirement of Secretary Hughes. Comm & Fin Chr 120:252-3 Ja 17 '25
Secretary Hughes' address at New York state Republican convention. Comm & Fin Chr 118:1858-61 Ap 19 '24

HUGHITT, Marvin
Hughitt and Finley of the North Western retire. por Ry Age 78:1641-2 Je 27 '25

HUGUENOT half dollar. See Coins, Commemorative

HUMIDIFIERS
Andrew humidifying apparatus for textile factories. il diags Engineering 118:873-4 D 26 '24
Nobis humidity provider. diag Sheet Metal Worker 15:99+ F 29 '24
Parks-Cramer humidifier. il Textile World 67: 3871 Je 13 '25
Simple air conditioning device uses exhaust steam. W. J. Risley, jr. il diag Chem & Met Eng 32:707-8 Ag '25
Studies in house humidifying. P. H. Bryce. il Heat & Ven 21:43-4 Mr '24

HUMIDITY
Air conditioning. H. A. Terrell. il Refrig Eng 11:388-91 My '25
Air conditions during sleeping hours. P. W. Goldsbury. Heat & Ven 22:68-70 Ag '25
Design, construction, and use of a constant humidity room. R. G. Parker and D. N. Jackman. bibliog il diags plan Soc Chem Ind J 44:223-33 My 15 '25
Effect of humidity in rubber testing. R. B. Stringfield. Ind & Eng Chem 17:833-5 Ag '25
Flow chart of cotton mill operations, showing where humidity and temperature control are needed. Textile World 67:2353 Ap 4 '25
Health, heating costs and humidification. F. J. Andel. il diags Dom Eng 111:20-1 My 9 '25
Heat and humidity control in buildings. E. T. Murphy. il charts Am Soc Heat & V E J 29:565-75 O '23; Abstract. Heat & Ven 21: 65+ Ja '24
House-humidifying requirements. il Heat & Ven 22:99-100 S '25
How we control the humidity of our storerooms. G. D. Allman. il System 45:862-3 Je '24; Same. Heat & Ven 21:67 O '24
Humidity and coal. J. R. Belknap. Power 61: 583 Ap 14 '25
Humidity in cotton mills. H. Kershaw. Textile Inst J 16:p163-4 My '25
Hygroscopic capacity of wool in different forms and its dependence on atmospheric humidity and other factors. S. A. Shorter and W. J. Hall. Textile Inst J 15:T305-27 Je '24; Abstract. Soc Dyers & Col J 40:301-4 S '24
Hygroscopicity and cakiness of fertilizer materials. A. B. Beaumont and R. A. Mooney. Ind & Eng Chem 17:635-6 Je '25
Les installations d'humidification de l'air dans les industries textiles. diag Génie Civil 85:279 S 27 '24
Making the air tell tales on itself. P. B. Findley. il diag Sci Am 132:382-3 Je '25
Modification of the Grosvenor humidity chart. G. J. Greenfield. chart Soc Chem Ind J 43: 9-10 Ja 11 '24
Moisture indoors and out. G. J. O'Connor. map Heat & Ven 20:54-5 O '23; Same. Gas Age 53:483-4 Ap 12 '24
Montreal Cottons limited installs new and up-to-date humidifying system. il Textile World 68:217 Jl 11 '25
Operations in woolen and worsted manufacturing and the processes which require temperature or humidity control; chart. Textile World 67:2105 Mr 28 '25
Our artificial winter climate. P. W. Goldsbury. Heat & Ven 21:53-4 Je '24
Precipitation of water in compressed air systems. D. W. Lloyd. Ry Mech Eng 99:215-16 Ap '25
Principles of design in furnace heating. A. M. Daniels. Sheet Metal Worker 16:688-9+ O 23 '25
Relative humidity and paper testing. E. O. Reed. Paper 34:1133-4 O 9 '24; Same. Paper Tr J 79:49-50 O 9 '24
Report on the humidification of Indian cotton mills. T. Maloney. Textile Inst J 15:P26-8 Ja '24
Studies in house humidifying. P. H. Bryce. il Heat & Ven 21:43-4 Mr '24

HUMIDITY—*Continued*
Work tests conducted in atmospheres of high temperatures and various humidities in still and moving air. W. J. McConnell and C. P. Yaglogiou. Am Soc Heat & V E J 31:35-57 Ja '25

See also Humidifiers; Hygrometer; Moisture; Water vapor—air mixtures

HUMIN
Humin formed by the acid hydrolysis of proteins; the condensation of indole derivatives with aldehydes. G: O. Burr and R. A. Gortner. Am Chem Soc J 46:1224-46 My '24

HUMOROUS advertisements. See Advertisements, Humorous

HUMPHREY pumps
Humphrey gas pump. diag Can Eng 47:243-4 Ag 12 '24
Large Humphrey pumps for Australia. il diags (supp) Engineer 136:673-4 D 21 '23
L'usine élévatoire à pompes Humphrey de Cobdogla (Australie du Sud.). il diags Génie Civil 84:324-7 Ap 5 '24

HUMPS. See Railroads—Switching

HUMUS
Humus et humification. B. Fallot and others. Chimie & Ind 11:873-85 My '24; Abstract. Génie Civil 85:178-9 Ag 23 '24

See also Humin

HUNGARY
Business innocent abroad; he meets Mr J. Smith, of Boston, U.S.A., in Buda Pesth. H: Schott. Nation's Business 12:19-22 O '24

See also Automobile industry and trade—Hungary; Bonds, Government—Hungary; Budget—Hungary; Finance—Hungary; Labor and laboring classes—Hungary; Labor laws and legislation—Hungary; Unemployment—Hungary; Wages—Hungary

Economic conditions

Economic conditions in Hungary. Fed Res Bul 10:270-4 Ap '24; Same. Econ W n s 27: 585-7 Ap 26 '24
Hungary—a nation learning to live. E. Lengyel. Annalist 26:541 O 30 '25
Hungary; conditions and guarantees under which she is expected to offer $20,000,000 of her bonds in America. E. Lengyel. Annalist 23:628+ Je 2 '24
Hungary's reconstruction. Moody's Inv Serv 16:101-4 Mr 6 '24
League of nations program for the financial and economic rehabilitation of Hungary. J. A. Salter. Econ W n s 27:809-11 Je 7 '24
League's plan for Hungary. Economist 98:137 Ja 26 '24
Revival of Hungary. W: Goode. Comm & Fin Chr 120:2880-1 Je 6 '25

HUNSAKER, Jerome C., 1886-
Sketch. por Aviation 15:710 D 10 '23

HUNT, Joseph Howland, 1870-1924
Appreciation. O. C. Hering. Arch Rec 56:578 D '24

HUNTER, Dard
Dard Hunter and his work. Paper 35:58 O 30 '24

HUNTING
Hunters hold safety meeting at Grand Rapids. il Nat Safety N 10:8 N '24

HUPP motor corporation
He retired; then found himself in love with his job; Charles D. Hastings called back to head the Hupp company. O. D. Foster. Forbes 14:541-4 Ag 1 '24

HURRICANES

See Storms; Tornadoes

HURRY
Lessons in achievement; stop up those energy leaks. H. A. Bruce. Forbes 14:547 Ag 1 '24

HUYGENS principle
Principle of Huygens. W. Anderson. Philos Mag 6th ser 49:422-6 F '25

HVID engines
Characteristics of Hvid-engine fuel cup. A. J. Nicholas. diags Power 62:208-9 Ag 11 '25

HYBINETTE process
Chemistry of the Hybinette nickel-refining process. F. E. Lathe. Soc Chem Ind J 44: 433-8, 443-4 Ag 21-28 '25
Raising tank-house efficiency in the British America nickel refinery. F. E. Lathe. flow sheet Eng & Min J 120:5-9 Jl 4 '25

HYBRIDIZATION
How the true cattalo is bred. il Sci Am 133: 89 Ag '25

HYDANTOINS
Condensation reactions of cyclic ketones; the action of isatin and isatin alpha chloride upon certain hydantoins. A. J. Hill and H: R. Henze. Am Chem Soc J 46:2806-10 D '24
Preparation of several substituted hydantoins. T. J. Thompson, H. L. Bedell and G: M. Buffett. Am Chem Soc J 47:874-6 Mr '25
Researches on hydantoins; a method of synthesizing 1,5-diaryl-hydantoins: 1,5-di(para-hydroxyphenyl)-hydantoin. R. D. Coghill. Am Chem Soc J 47:216-21 Ja '25
Researches on hydantoins; dipyruvic ureide. D: Davidson and T. B. Johnson. Am Chem Soc J 47:561-7 F '25
Researches on hydantoins; nitropyruvic ureide. D: Davidson. Am Chem Soc J 47:1722-6 Je '25
Researches on hydantoins; pyvuril and dipyruvic triureide. D: Davidson. Am Chem Soc J 45:255-9 Ja '25
Researches on hydantoins; synthesis of the polypeptide-hydantoin: hydantoin-3-acetic acid. T. B. Johnson and A. G. Renfrew. Am Chem Soc J 47:240-5 Ja '25
Researches on hydantoins; the synthesis of hydantoins containing phenolic groups in the glyoxaline nucleus. R. D. Coghill and T. B. Johnson. Am Chem Soc J 47:184-93 Ja '25
Synthesis of the polypeptide-hydantoin: N-1-methyl-tyrosyl-hydantoin-3-acetic acid. D. A. Hahn and A. G. Renfrew. Am Chem Soc J 47:147-63 Ja '25

HYDNOCARPIC acid
Structure of chaulmoogric and hydnocarpic acids. R. L. Shriner and R. Adams. Am Chem Soc J 47:2727-39 N '25

HYDRANTS
Flush hydrants in congested city streets. Am Water Works Assn J 11:222-3 Ja '24
Green cap and gray barrel color scheme for fire hydrants. R. B. Morse. il Eng N 93: 596-7 O 9 '24
Hydrant connections for fire engines. F. A. Marston. N E Water Works Assn J 37: 369-78 D '23; Same cond. Eng & Contr (W W) 60:1248-53 D 12 '23; Discussion. N E Water Works Assn J 37:378-84 D '23
Hydrant inspection by firemen. A. Gerstung. Pub Works 56:323-4 S '25
Hydrant modified for looks, adjustability and visibility. R. B. Morse. il diags Eng N 93: 512-13 S 25 '24
Painting fire hydrants: best color from fireman's standpoint and for protection of hydrant. Am Water Works Assn J 11:199-202 Ja '24
Protection of exposed water pipes and appurtenances. G: H. Finneran. Eng & Contr (W W) 63:1052-7 My 13 '25
Protection of fire hydrants. Am Water Works Assn J 12:339 N '24
Use of hydrants for purposes other than extinguishing fires. J: W. Toyne. Am Water Works Assn J 11:161-3; Discussion. 163-71 Ja '24
What progress is being made in the adoption of the standard thread for fire hydrant nozzles? Am Water Works Assn J 11:197-8 Ja '24
Yellow paint for fire hydrants. Eng N 95:135 Jl 23 '25

See also Fire service (water supply); Hose couplings

HYDRANTS—*Continued*

Manufacture

Makes castings for waterworks; Ludlow valve co., Troy, N.Y. il diag Foundry 53:350-5 My 1 '25

HYDRAPHTHAL

Modern wool washing. D. E. Pospiech. Am Dyestuff Rep 13:517-18 Ag 11 '24

HYDRATES

Aqueous pressure of hydrated crystals; oxalic acid, sodium sulfate, sodium acetate, sodium carbonate, disodium phosphate, barium chloride. G. P. Baxter and W: C. Cooper, jr. Am Chem Soc J 46:923-33 Ap '24

See also Carbohydrates

HYDRATES of lime. See Lime

HYDRATION

Density and hydration in gelatin sols and gels. T. Svedberg. diag Am Chem Soc J 46:2673-6 D '24

Hydration of anhydrite. M. Farnsworth. Ind & Eng Chem 17:967-70 S '25

Rate of hydration of lime from reburned sludges as influenced by its soluble salts. A. H. White and R. M. True. Ind & Eng Chem 17:520-1 My '25

Some considerations on hydration and solution. H. A. Taylor. J Phys Chem 29:995-1003 Ag '25

HYDRATROPIC acid

Resolution of hydratropic acid. H: S. Raper. Chem Soc J 123:2557-9 O '23

HYDRAULIC accumulators

Pneumatic hydraulic accumulators. il diags Chem & Met Eng 32:21-2 Ja 5 '25

HYDRAULIC brakes. See Brakes, Hydraulic

HYDRAULIC cartridge. See Hydraulic mining cartridge

HYDRAULIC control

Advantages of hydraulic steering; abstract with discussion. J. W. White. Soc Auto Eng J 16:566-7 Je '25

HYDRAULIC engineering

L'aménagement de la chute des Sept-Lacs dans le massif de Belledone (Isère). il diag plan Génie Civil 86:399-404 Ap 25 '25

Practical hydraulic engineering problems. O. C. A. van Lidth de Jeude. Engineer 137: 232, 260, 308, 344-5 F 29-Mr 7, 21-28 '24

Projet de mise en valeur des chutes à créer entre la Méditerranée et la mer Morte: électrification de la Palestine, irrigation et canal de navigation intérieure. E. Imbeaux. plan map Génie Civil 87:92-3 Jl 25 '25

River and canal engineering. E: S. Bellasis. 2d ed. 337p Spon '24

See also Aqueducts; Artesian wells; Breakwaters; Bridges—Foundations and piers; Caissons; Canals; Channels; Cofferdams; Culverts; Dams; Dikes (engineering); Docks; Drainage; Dredging; Embankments; Flood control; Flumes; Gates, Hydraulic; Harbors; Hydraulic filling; Hydraulic laboratories; Hydraulic mining; Hydraulic presses; Hydraulics; Hydrodynamics; Hydroelectric plants; Intakes; Irrigation; Irrigation canals; Jetties; Levees; Lighthouses; Locks (hydraulic engineering); Mattresses (hydraulic engineering); Penstocks; Piers; Pumping; Pumping machinery; Pumping stations; Pumps; Reclamation of land; Reservoirs; Retaining walls; Rivers—Regulation; Shore protection; Siphons; Spillways; Stream measurement; Surge tanks; Tide power; Tunnels and tunneling, Subaqueous; Turbines; Water; Water flow; Water power; Water supply; Water supply engineering; Water wheels; Waterworks; Weirs; Wells; Wharves; *also* Chicago drainage canal

History

Hydraulic chronology. L: M. Dean. Eng & Contr (W W) 60:1228-30 D 12 '23

Models

Experimental river constructed at Waterside works at Ipswich. il Engineer 137: 452-4 Ap 25 '24

Solving hydraulic problems by models. C: I. Corp. Eng & Contr (W W) 63:533-4 Mr 11 '25

HYDRAULIC engineers

Directories

List of members. Am Water Works Assn J 12:sup28-89 O '24 [published annually]

HYDRAULIC filling

Building the highest hydraulic fill dam. A. C. Eaton. il diag Eng N 92:235-8 F 7 '24

Fast hydraulic filling of the Wichita Falls dam. A. S. Fry, R. A. Thompson and O. N. Floyd. il Eng N 91:1004-8 D 20 '23

New England power company Davis Bridge development. A. C. Eaton. il diags Boston Soc C E J 12:12-19 Ja '25; Same. Eng & Contr (W W) 63:503-6 Mr 11 '25

Sand dams built by hydraulic fill in northern New York. il diag map Eng N 94:180-3 Ja 29 '25

Slag is scattered hydraulically. J: D. Knox. il Iron Tr R 74:1301-4 My 15 '24

See also Hydraulic mine filling

HYDRAULIC gates. See Gates, Hydraulic

HYDRAULIC jacks

Jack for impressing embossing dies. H. A. Freeman. diag Mach 31:562-3 Mr '25

HYDRAULIC laboratories

Some impressions of the development of hydraulic laboratories in Europe. J: R. Freeman. Eng N 94:185-6 Ja 29 '25

HYDRAULIC machinery

Lapointe hydraulic broaching machine. il Mach 32:156-7 O '25; Automotive Ind 53: 585 O 1 '25; Iron Age 116:964 O 8 '25

Largest hydraulic riveter ever built. il Marine Eng 30:350 Je '25

Use of glycerine in hydraulic machinery. F. Mercier. Mech Eng 46:353 Je '24

See also Hydraulic presses; Hydrautomat; Turbines; Valves, Hydraulic; Water wheels

HYDRAULIC mine filling

Hydraulic stowage at home and abroad. il Coal Age 25:355-7 Mr 6 '24

Old workings at Cassidy, B.C., flushed with fine rock. J. B. Touhey. diags Coal Age 26: 654-5 N 6 '24

Remblayage hydraulique; dispositif de l'accumulateur et du mélangeur des mines de Villebœuf, à Saint-Etienne. diag Génie Civil 85:97-8 Jl 26 '24

HYDRAULIC mining

China clay hydraulics. Chem Age (Lond) 11: sup16 O 18 '24

Hydraulic stripping. W. D. Armstrong. il Eng & Contr (G C) 64:415-18 Ag 19 '25

Red Mountain hydraulic mining co. completes dam. flow sheet il Eng & Min J 118: 705-6 N 1 '24

Shall the federal government finance construction of debris dams? H. A. Finch. Eng & Min J 119:805-6 My 16 '25

See also Gold dredging

HYDRAULIC mining cartridge

Hydraulic mining cartridge useful for removing concrete foundations and for coal mining work. il diag Eng & Min J 117:464-5 Mr 15 '24; Coal Age 25:508-9 Ap 3 '24

HYDRAULIC presses

Armature work improved by hydraulic press and special tools. T. Dunn. diags Elec Ry J 66:835-6 N 7 '25

Combined air and hydraulic press. C. B. Lain. diag Elec Ry J 66:246 Ag 15 '25

Elmes tire-applying presses, 325-ton. il Am Mach 63:523-4 S 24 '25

Hydraulic-mechanical press for controller drums. T. Dunn. il diag Elec Ry J 66:331 Ag 29 '25

Hydraulic separation. C: L. Mantell. il diags Chem & Met Eng 29:1015-18 D 3 '23

Large hydraulic flanging press. il diags Engineer 140:468-9 O 30 '25

HYDRAULIC presses—*Continued*
McCall hydropress series no. 50. il Am Mach 63:561 O 1 '25; Iron Age 116:1121 O 22 '25
New hydraulic press built by Bethlehem steel co. has special features. il Iron Tr R 75:1446 N 27 '24; Iron Age 114:1283 N 13 '24
Oilgear high-speed hydraulic press. il Am Mach 63:39 Jl 2 '25
Oilgear self-contained double-column hydraulic press. il Am Mach 59:896 D 13 '23
Pneumatic hydraulic accumulators. il diags Chem & Met Eng 32:21-2 Ja 5 '25
Southwork rapid action hydraulic press. il Elec Ry J 64:1041 D 20 '24; Ry Mech Eng 98: 771 D '24
Watson-Stillman hydraulic press. il Am Mach 59:966-7 D 27 '23

HYDRAULIC rams
Use of hydraulic tables in rubber factories. il diag Rubber Age 17:405 S 25 '25

HYDRAULIC regulators
See Arca regulator

HYDRAULIC steel company
Reorganization plan. Comm & Fin Chr 121: 467-8 Jl 25 '25

HYDRAULIC stowage. See Hydraulic mine filling

HYDRAULIC transmission
Diesel engine developments in Germany; Föttinger hydraulic coupling system. il Marine Eng 29:168-9 Mr '24
L'état actuel de la traction sur voies ferrées par moteurs à combustion interne. E. Brillié. il diags Soc Ing Civils Bul 78:228-34 Mr '25
Flüssigkeitsgetriebe für ölmotor-lokomotiven; Schneider-getriebe. T. Müller. il diags Zeit Ver Deutsch Ing 69:499-504, 595-600 Ap 18, My 2 '25
Gardner combination surface and disk grinder with hydraulic table feed. il Iron Age 115: 123 Ja 8 '25
Garrison hydraulic gear grinder. il Mach 31: 733-4 My '25; Am Mach 62:975-6 Je 18 '25
Gasoline passenger car with hydraulic drive. il diags Ry Age 76:1507-9 Je 14 '24
Hydraulic fire ladder. il diag Engineering 117:575, 578 My 2 '24
Hydraulic mechanical transmission gearing for motor ships. G. Bauer. diag Engineer 138:646 D 5 '24
Hydraulic transmission and reversing combined with mechanical reduction gears in motorships. il diags Marine Eng 30:440-1 Ag '25
Hydraulic transmission for Diesel locomotives. il diags Ry Mech Eng 99:151-2 Mr '25
Hydraulic transmission for omnibuses. diag Engineer 137:292 Mr 14 '24
Hydroil internal grinder has hydraulic drive and feed. W. L. Carver. il Automotive Ind 51:246-7 Jl 31 '24
Latest German motor liners have geared drive. il Marine Eng 29:91-2 F '24
Lentz hydraulic transmission system. diags Mech Eng 46:157 Mr '24
Lentz variable hydraulic transmission gear. il diags Engineering 119:350-1, 354 Mr 20 '25
Locotracteur à moteur Diesel et à transmission hydraulique Lentz, des Ateliers de Gratz (Autriche). il diags Génie Civil 85: 325 O 11 '24
Motor coach with oil transmission gear. il diags Engineer 139:308 Mr 13 '25
New Australian motor line Duisberg equipped with combined hydraulic-mechanical reduction gear and coupling. E. Foerster. diags Marine Eng 30:615-20 N '25
New transmission allows for changing gears without interrupting torque. il diags Automotive Ind 51:144-5 Jl 17 '24
Le problème du changement de vitesse continu et ses principales solutions actuelles. A. Dumont. diags Génie Civil 83:586-9 D 15 '23
Schneider hydro-mechanical transmission gear. il diags Engineer 140:86-8, 90 Jl 24 '25; Ry Mech Eng 99:468-71 Jl '25
Self-propelled passenger car on N.Y., N.H. & H. il diags Ry Mech Eng 98:534-7 S '24
Ship Vulcan with Diesel-hydraulic drive. il diags Engineering 118:92-4 Jl 18 '24
Some recent work on unconventional transmissions. P. M. Heldt. il diags Soc Auto Eng J 17:127-41 Jl '25; Same cond. Automotive Ind 52:1052-6, 1109-15 Je 18-25 '25; Discussion. Soc Auto Eng J 17:613-15 D '25
La transmission de l'arbre moteur à l'arbre porte-hélice sur les navires munis de moteurs Diesel. Lang and Dol. diags Génie Civil 86:284-6 Mr 21 '25

HYDRAULIC valves. See Valves, Hydraulic

HYDRAULICS
Aspect of the hydraulic pump problem. A. P. Flockart. diag Eng N 95:728 O 29 '25
Development of the science of hydraulics. E. P. Hamilton. il diags Boston Soc C E J 12:344-54 O '25
Discontinuous flow of liquid past a wedge of small angle. W. B. Morton. Philos Mag 6th ser 48:464-76 S '24
Effect of flowing water on the stability of sand. C. M. Daily. Eng N 94:649 Ap 16 '25
Elementary hydraulics. F. W. Medaugh. 144p Van Nostrand '24
Hydraulic relations between power stations along the same water-course. K. G. Ljungdahl. diags Elec W 83:149 Ja 19 '24
Hydraulics. R. L. Daugherty. 3d ed. rev. & enl. 335p McGraw-Hill '25
Hydraulics. E. H. Lewitt. 261p Pitman '23
Hydraulics applied to sewer design. G. S. Coleman. 158p Van Nostrand '23
Progress report of special committee on irrigation hydraulics. Am Soc C E Pro 51:[Soc aff]137-40 Mr '25
River regulation determined by hydraulic experiments. il diags Eng N 93:429-31 S 11 '24
Scope and distribution of current and recent research in hydraulics in the United States. Am Soc C E Pro 51:[Soc aff]162-4 Mr '25
Tests on the hydraulics and pneumatics of house plumbing. H. E. Babbitt. bibliog diags Ill U Eng Exp Sta Bul 143:1-80 '24; Excerpts. Eng & Contr (W W) 62:1077-8 N 12 '24
Water in motion. diags Power 58:1004 D 18 '23
See also Fluids; Hydraulic engineering; Hydrodynamics; Hydrometers; Intakes; Jets; Kutter's formula; Liquids; Nozzles; Oil flow; Pitot tube; Siphons; Stream flow; Stream measurement; Turbines; Water; Water flow; Water power; Waves

Bibliography
Bibliography on subjects selected for research by the special committee on irrigation hydraulics. Am Soc C E Pro 51:[Soc aff]147-60 Mr '25

Tables, calculations, etc.
Arithmetic solution of hydraulic problems. R. W. Angus. Can Eng 48:401-3 Ap 14 '25; Same. Eng & Contr (W W) 64:81-5 Jl 8 '25
Calculation of hydraulic notch for channel control. H. B. Muckleston. Eng N 93:232-3 Ag 7 '24; Discussion. 93:641, 760 O 16, N 6 '24
Computing backwater curves for surface slopes in streams. J. C. Stevens. diags Eng N 95:550-2 O 1 '25
Design of wash water troughs for rapid sand filters. M. F. Stein. Am Water Works Assn J 13:411-15; Discussion. 415-17 Ap '25
Determination of internal leakage in centrifugal pumps. A. F. Sherzer. Eng N 92:1056-8 Je 19 '24
Determining the energy lost in the hydraulic jump. J. C. Stevens. diag Eng N 94:928-9 Je 4 '25
Fall in pressure in hydraulic turbine penstocks due to acceleration of flow. S. L. Kerr. charts Power 60:266-8 Ag 12 '24
Flow of water in an inclined channel of rectangular section. H. Jeffreys. Philos Mag 6th ser 49:793-807 My '25
Hydraulic and excavation tables. 5th ed., rev. and enl. 168p U.S. Bur. of reclamation, Washington, D.C. '25

HYDRAULICS—Tables, calculations, etc.—*Cont.*
Hydraulic design of the shaft spillway for the Davis bridge dam, and hydraulic tests on working models. F. Kurtz. il diags plans Am Soc C E Pro 49:1953-2005 D '23; Discussion. 50:561-4, 671-8, 852-60, 1118-23, 1426-35 Ap-My, Ag-S, N '24
New method of computing backwater and dropdown curves. A. G. Husted. diags Eng N 92:719-22 Ap 24 '24; Discussion. J. J. Traill. 92:1031 Je 12 '24
New tables for computing loss of head in pipes. J. O. Jones. Eng N 94:240-2 F 5 '25
New tests of loss of head in 2-in. black wrought-iron pipe. L. Perry. Sanitary & Heat Eng 103:323+ My 15 '25
Practical applications of hydraulic principles. R. T. Livingston. diags Power Pl Eng 29: 189-90, 294-5 F 1, Mr 1 '25
See also Sewage flow; Water flow

HYDRAUTOMAT
Some novel hydro-pneumatic pumping plants. il diag Engineer 140:413-14 O 16 '25; Génie Civil 87:443-5 N 21 '25; Power 62:1026 D 29 '25

HYDRAZINE
Action of diacetyltartaric anhydride and chlorofumaryl chloride upon aromatic amines and hydrazines. F: D. Chattaway and G: D: Parkes. Chem Soc J 125:464-70 Mr '24
Action of hydrazines on semicarbazones. M. M. J. Sutherland and F. J. Wilson. Chem Soc J 125:2145-8 O '24
Action of hydroxylamine and of hydrazine on the aryl monothio amides of carbethoxy-ethylmalonate. D: E. Worrall. Am Chem Soc J 45:3092-5 D '23
Action of hydroxylamine and of hydrazine on the aryl monothio-amides of ethyl acetyl-malonate. D: E. Worrall. Am Chem Soc J 46:2832-4 D '24
Electrometric titration of hydrazine and its salts. E. C. Gilbert. Am Chem Soc J 46: 2648-55 D '24
Labile nature of the halogen atom in organic compounds; the action of hydrazine hydrate on the halogen derivatives of α-nitro-fatty acids. A. K. Macbeth and D: Traill. Chem Soc J 127:892-8 Ap '25
Oxidation of hydrazine; the effect of oxygen on the decomposition of hydrazine, the reactions with ferricyanide in alkaline solution, and dichromate in acid solution. E. J. Cuy and W: C. Bray. Am Chem Soc J 46: 1786-95 Ag '24
Oxidation of hydrazine; the interaction of hydrazine and ferric salt in acid solution. E. J. Cuy. Am Chem Soc J 46:1810-14 Ag '24
Oxidation of hydrazine; the limiting reaction of permanganate and manganic salts in acid solution with hydrazine. E. J. Cuy, M. E. Rosenberg and W: C. Bray. Am Chem Soc J 46:1796-1810 Ag '24
Oxidation of hydrazine; the volumetric analysis of hydrazine by the iodic acid, iodine, bromine, and hypochlorous acid methods. W: C. Bray and E. J. Cuy. Am Chem Soc J 46:858-75 Ap '24
Untersuchungen über triphenylmethanfarbstoffe, hydrazine und indole. E. Fischer. 880p J. Springer, Berlin '24
Volumetric analysis of hydrazine by the iodine bromate, iodate and permanganate methods. I. M. Kolthoff. Am Chem Soc J 46:2009-16 S '24

HYDRAZOIC acid
Azido-carbondisulfide; reaction of azido-carbondisulfide and of free thiocyanogen with hydrogen trinitride (hydronitric acid) in certain non-aqueous solvents. F. Wilcoxon, A. E. McKinney and A. W. Browne. Am Chem Soc J 47:1916-21 Jl '25

HYDRAZONES
Colours produced by the action of sulphuric acid upon some hydrazones. F: D. Chattaway, S. J: Ireland and A. J: Walker. Chem Soc J 127:1851-5 Ag '25
See also Phenylhydrazones

HYDRIDES
Atomic dimensions and gaseous hydride formation. H. L. Riley. Philos Mag 6th ser 48: 126-8 Jl '24

HYDRINDONE. See Indanone

HYDRIODIC acid
Decomposition of hydrogen iodide. H. A. Taylor. J Phys Chem 28:984-91 S '24
Free energy of dilution and the activity of the ions of hydrogen iodide in aqueous solution. J. N. Pearce and A. R. Fortsch. Am Chem Soc J 45:2852-7 D '23
Quantitative reduction by hydriodic acid of halogenated malonyl derivatives; a study of the mechanism of the reaction. R. W. West. Chem Soc J 125:710-21 Mr '24
Reduction of *m*-methoxybenzyl bromide by hydrogen iodide. J: B. Shoesmith. Chem Soc J 123:2828-30 N '23
Relation of homogeneous to catalysed reactions; the catalytic decomposition of hydrogen iodide on the surface of gold. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 127:1552-9 Jl '25

HYDROBENZOINS
Dehydration of the optically active methyl- and ethyl-hydrobenzoins. A. McKenzie and R. Roger. Chem Soc J 125:2148-55 O '24

HYDROBROMIC acid
Composition of a constant-boiling solution of hydrogen bromide in water. D. T. Ewing and H. A. Shadduck. Am Chem Soc J 47: 1901-4 Jl '25
Electron displacement in carbon compounds; hydrogen bromide and 2-pentene. H. J. Lucas and H. W. Moyse. Am Chem Soc J 47:1459-61 My '25
Measurements of velocity of the synthesis of hydrogen bromide by capacity change. A. Bramley. diags Phys R 25:858-64 Je '25

HYDROCARBONS
Boiling point correction chart for normal liquids. W. H. Bahlke and R. E. Wilson. Ind & Eng Chem 16:1131-2 N '24
Calorific value and constitution. M: F. Barker. J Phys Chem 29:1345-63 N '25
Characteristics of the hydrocarbons in Mid-continent kerosene. C. R. Wagner. Ind & Eng Chem 16:135-6 F '24; Same. Pet Age 13:26-7 F 15 '24; Same. Inst Pet Tech J 10: 220-4 Ap '24
Chemistry of the rubber hydrocarbon. H. L. Fisher. Ind & Eng Chem 16:627-31 Je '24; Abstract. India Rubber W 70:796-7 S '24
Dielectric constants of ethane, ethylene, acetylene and butylene, and the symmetry of unsaturated bonds. C: P. Smyth and C: T. Zahn. Am Chem Soc J 47:2501-6 O '25
Direct combination of ethylenic hydrocarbons with hydrogen sulphites. I. Kolker and A. Lapworth. Chem Soc J 127:307-15 F '25
Electron displacement in carbon compounds; polarity differences in carbon-hydrogen unions. H. J. Lucas, T: P. Simpson and J. M. Carter. Am Chem Soc J 47:1462-9 My '25
Further X-ray measurements on long-chain compounds (*n*-hydrocarbons). A. Müller and W: B. Saville. il Chem Soc J 127:599-603 Mr '25
Halogenated hydrocarbons as dielectrics; effect on flash and fire point of transformer oils. H. C. P. Weber and R. H. Wynne. Am Electrochem Soc Trans v 46 (preprint 13):189-95 O '24
Hydrocarbon veindikes and oil shales. H. W. Hixon. Eng & Min J 119:653 Ap 18 '25
Hydrocarbons from water gas. Gas J (Lond) 164:773 D 19 '23
Ignition of gases; ignition by a heated surface—mixtures of the paraffins with air. W. Mason and R: V. Wheeler. Chem Soc J 125: 1869-75 S '24
Ignition of gases; ignition by the impulsive electrical discharge—mixtures of the paraffins with air. R: V. Wheeler. Chem Soc J 125:1858-69 S '24
Liquid hydrocarbons obtained in the compression of oil gas. P. Lewis-Dale. Soc Chem Ind J 44:189-94 Ap 24 '25; Abstract. Chem Age (Lond) 11:600 D 13 '24

HYDROCARBONS—*Continued*
Lubricant and asphaltic hydrocarbons in petroleum. C: F. Mabery. Ind & Eng Chem 15:1233-8 D '23; Same. Inst Pet Tech J 9:427-39 D '23
Marketing the natural hydrocarbons. S. D. Kirkpatrick. il Eng & Min J 119:329-32 F 21 '25
Mechanism of the combustion of hydrocarbons. W. E. Garner. Soc Chem Ind J (Chem & Ind) 42:1080-1 N 9 '23
Molecular attraction and velocity of reactions at low temperatures of unsaturated hydrocarbons. O. Maass and C. H. Wright. Am Chem Soc J 46:2664-73 D '24
Physical properties of the paraffin hydrocarbons. R. E. Wilson and W. H. Bahlke. Ind & Eng Chem 16:115-22 F '24
Possible inorganic petroleum. J. V. Lewis. Eng & Min J 120:137-9 Jl 25 '25
Preparation and use of industrial gases; developments in refrigeration. Chem Age (Lond) 11:9 Jl 5 '24
Preparation of hydrocarbons by the reaction between alkyl sulfonates and organomagnesium halides. H: Gilman and N. J. Beaber. Am Chem Soc J 47:518-25 F '25
Preparation of quaternary hydrocarbons. E: R. Trotman. Chem Soc J 127:88-95 Ja '25
Le procédé Bergius. A. Kling. diags Chimie & Ind 11:1067-77 Je '24
Quantitative study of the reaction between disubstituted acetylenic hydrocarbons and the Grignard reagent. H: Gilman and J: B. Shumaker. Am Chem Soc J 47:514-15 F '25
Reaction of cracked spirit with formaldehyde. W. R. Ormandy and E. C. Craven. Inst Pet Tech J 10:99-100 F '24
Solubility of the petroleum hydrocarbons. C. F. Mabery. diag Ind & Eng Chem 16:937 S '24; Same. Pet Age 14:14 S 15 '24
Specific heat-specific gravity-temperature relations of petroleum oils. W: R. Eckart. Mech Eng 47:535-40 Jl '25
Studies in emulsions. W: Seifriz. diags J Phys Chem 29:587-600 My '25
Studies in fluorescence spectra; some benzenoid hydrocarbon vapours. J. K. Marsh. diag Chem Soc J 123:3315-24 D '23
Study of some physical laws governing the carbonization of coal. A. W. Warner. Gas J (Lond) 165:90-1, 147-8 Ja 9-16 '24
Tesla-luminescence spectra; some hydrocarbons containing a single benzene nucleus. W: H. McVicker, J. K. Marsh and A. W. Stewart. Chem Soc J 125:1743-50 S '24
Tesla-luminescence spectra; some polynuclear hydrocarbons. W: H. McVicker, J. K. Marsh and A. W. Stewart. Chem Soc J 127:999-1006 My '25
3:3-diethylpentane (tetraethylmethane). G. T. Morgen, S. R. Carter and A. E. Duck. Chem Soc J 127:1252-9 Je '25
La transmutation hydrogénée des combustibles en carburants. A. Grebel. Génie Civil 86:333-8 Ap 4 '25
Vapour tensions of the normal paraffins. A. A. Ashworth. Inst Pet Tech J 10:787-802 N '24
Volume, weight, and other properties of the therm. N. H. Humphreys. Gas J (Lond) 171:675-6, 798-800; 172:95-6, 219-20 S 16, 30, O 14, 28 '25

See also Acetylene; Benzene; Cyclic compounds; Cyclopropane; Cymene; Hexane; Indene; Napthalene; Napthenes; Olefins; Petroleum; Petroleum refining; Phenanthrene; Terpenes; Toluene; Xylene

Analysis

Combustion of petroleum hydrocarbons. C. F. Mabery. diag Ind & Eng Chem 16:911-12 S '24

HYDROCARBONS, Aromatic
Aromatic hydrocarbons in Burmah petroleums. H. M. Mulany and E. R. Watson. Soc Chem Ind J 43:310-13 O 17 '24
Catalytic activity of carbons from aromatic hydrocarbons and some derivatives. W. Farmer and J. B. Firth. J Phys Chem 28: 1136-46 N '24
Electrochemical oxidation of aromatic hydrocarbons. F. Fichter. Am Electrochem Soc Trans v 45 (preprint 6):75-95 Ap '24
Examination of the refractive indices of motor fuels with regard to their aromatic contents. W. N. Hoyte. Inst Pet Tech J 11:76-80 F '25

See also Benzene; Phenanthrene; Toluene

HYDROCELLULOSE (term)
Power of an obsolete nomenclature. L: E. Wise. diag Paper 33:5-8 F 21 '24

HYDROCHLORIC acid
Action of highly concentrated hydrochloric acid on cellulose and on some derivatives of glucose and of xylose. E. L. Hirst and D. R. Morrison. Chem Soc J 123:3226-35 D '23
Action of hydrogen chloride on *cyclo*hexylideneazine and on *cyclo*pentylideneazine. W: H: Perkin, jr. and S. G. P. Plant. Chem Soc J 127:1138-41 My '25
Action of mixtures of nitric and hydrochloric acids on acetone. W. J. Boyd. Soc Chem Ind J 44:222 My 8 '25
Activities of strong electrolytes; the activity of hydrochloric acid derived from the electromotive force of hydro-silver-chloride cells. G: Scatchard. diags Am Chem Soc J 47:641-8 Mr '25
Activities of strong electrolytes: the use of the flowing junction to study the liquid-junction potential between dilute hydrochloric acid and saturated potassium chloride solutions; and the revision of some single-electrode potentials. G: Scatchard. diag Am Chem Soc J 47:696-709 Mr '25
Activity coefficients and transport number of solutions of hydrogen chloride in methyl alcohol. G. Nonhebel and H. Hartley. Philos Mag 6th ser 50:729-49 O '25
Activity coefficients of dilute aqueous solutions of hydrogen chloride, thallous chloride and lead nitrate. M. Randall and A. P. Vanselow. diags Am Chem Soc J 46: 2418-37 N '24
Activity coefficients of hydrochloric acid in solutions of ethyl alcohol. H. S. Harned and M. H. Fleysher. Am Chem Soc J 47: 82-92 Ja '25
Activity of water in hydrochloric acid. H. J: E. Dobson and I. Masson. diag Chem Soc J 125:668-76 Mr '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:90-1 Ja 25 '24
Behaviour of titanic acid towards hydrochloric acid. A. M. Morley and J: K. Wood. Chem Soc J 125:1626-34 Ag '24
Detection of constant-boiling mixtures; hydrochloric acid-water and methyl alcohol-benzene. T. R. Briggs. J Phys Chem 28:644-50 Je '24
Diffusion-potential and transport number of hydrochloric acid in concentrated solution. S. R. Carter and F: M. Lea. Chem Soc J 127:487-94 F '25
Effect of the addition of some alkaloids on the rate of solution of iron in dilute hydrochloric acid. M. B. Rane and M. Prasad. diag J Phys Chem 29:249-55 Mr '25
Hydrochloric acid. Chem & Met Eng 31:64 Jl 14 '24
Influence of certain chemicals on the rate of reproduction of yeast in wort; hydrochloric acid. N. A. Clark. J Phys Chem 28:228-9 Mr '24
Influence of gelatin on the transference numbers of hydrochloric acid. W. G. France and W. H. Moran. Am Chem Soc J 46:19-30 Ja '24
Ionization of HCl by electron impacts. E. F. Barker and O. S. Duffendack. diag Phys R 26:339-45 S '25
Laboratory circulating pump for corrosive vapors used in researches on rare earths. H. C. Kremers. diag Ind & Eng Chem 17: 298-9 Mr '25
Mechanism of the photochemical reaction between hydrogen and chlorine. A. L. Marshall. diag J Phys Chem 29:1453-61 N '25

HYDROCHLORIC acid—*Continued*
Moving-boundary method for determining transference numbers; the transference numbers of some chloride solutions. E. R. Smith and D. A. MacInnes. diag Am Chem Soc J 47:1009-15 Ap '25
New vessel for the absorption of hydrochloric acid. S. L. Tylor. diags Am Inst Chem Eng Trans v 14:125-31; Discussion. 132-3 '21-'22
Oxidation potentials of ferrous and ferric salts in concentrated hydrochloric acid and phosphoric acid. S. R. Carter and F. H. Clews. Chem Soc J 125:1880-8 S '24
Partial vapor pressure of aqueous HCl solutions. F. C. Zeisberg. Chem & Met Eng 32:326-7 F 23 '25
Rate of absorption of hydrochloric acid gas in the Tyler vitreosil system. H. E. Fritz and J. R. Withrow. diags plan Am Inst Chem Eng Trans v 15 pt 1:217-29 '23
Survey of products that afford industrial outlets for chlorine. P. S. Brallier. bibliog Chem & Met Eng 30:624-6 Ap 21 '24
System antimonious oxide-hydrochloric acid-water. C: Lea and J: K. Wood. Chem Soc J 125:137-48 Ja '24
Tank cars for transportation of muriatic acid. J. M. Rowland. il Am Inst Chem Eng Trans v 14:135-42; Discussion. 143-4 '21-'22
Transference numbers of hydrochloric acid in solutions of ethyl alcohol. H. S. Harned and M. H. Fleysher. Am Chem Soc J 47: 92-5 Ja '25
Transport, storage and distribution of hydrochloric acid, with an account of a complete modern installation. D. M. Newitt. bibliog il diags plan Soc Chem Ind J (Chem & Ind) 43:186-94 F 22 '24; Abstract. Chem Age (Lond) 10:192-3 F 23 '24
Vapour pressure of hydrochloric acid. J: S. Dunn and E. K. Rideal. Chem Soc J 125: 676-84 Mr '24; Abstract and discussion. Soc Chem Ind J (Chem & Ind) 43:91 Ja 25 '24

Manufacture

Manufacture of hydrochloric acid and saltcake. A. C: Cumming. Rev. ed. 438p Van Nostrand '23
Manufacture of hydrochloric acid from chlorine. W. Hirschkind. diag Ind & Eng Chem 17:1071-3 O '25
Production of hydrochloric acid by the direct union of hydrogen and chlorine. H. K. Moore. diag Am Inst Chem Eng Trans v 14:91-122; Discussion. 122-3 '21-'22
Sulfuryl chloride; hydrolysis to sulfuric and hydrochloric acids. R. H. McKee and C. M. Salls. diag Ind & Eng Chem 16:833-6 Ag '24
Synthetic hydrochloric acid. Chemicals 24:5 Jl 6 '25

HYDROCHLORIDES
Influence of dilution on the hydrolytic dissociation of some oxime hydrochlorides. L. B. Tansley. Chem Soc J 123:3164-71 D '23

HYDROCINNAMIC acid
Electrolytic preparation of *p*-phenylenediamine, aminosalicylic acid, succinic acid, and hydrocinnamic acid. J. F. Norris and E. O. Cummings. Ind & Eng Chem 17:305-7 Mr '25
Influence of substituents on the formation of derivatives of 1-hydrindone from β-phenylpropionic acids. E. A. Speight, A. Stevenson and J. F. Thorpe. Chem Soc J 125:2185-92 O '24

HYDROCYANIC acid
Absorption and retention of hydrocyanic acid by fumigated food products. E. L. Griffin and others. il U S Agric Bul 1149:1-16 [bibliog. p. 15-16] '23; 1307:1-8 '24; Abstract. J Fr Inst 199:113 Ja '25
Absorption of hydrocyanic acid by solid sodium carbonate. F. V. Bichowsky. diag Ind & Eng Chem 17:959-60 S '25
Ammonia, carbon, hydrogen cyanide, hydrogen equilibrium and free energy of hydrogen cyanide. R: M. Badger. diag Am Chem Soc J 46:2166-72 O '24
Decomposition of liquid hydrocyanic acid. M. Walker and D. N. Eldred. il Ind & Eng Chem 17:1074-81 O '25
Explosion of acetylene and nitrogen; the effect of the addition of oxygen on the production of hydrocyanic acid. W: E: Garner and S. W. Saunders. Chem Soc J 125: 1634-41 Ag '24
Extraction de l'acide cyanhydrique du gaz de houille et préparation directe du bleu de prusse. A. Delclève. Chimie & Ind 10:632-5 O '23; Same (Direct preparation of Prussian blue from coal gas). Gas J (Lond) 165:92-3 Ja 9 '24; Same. Am Gas J 120: 522+ Je 7 '24
Fumigation of ships by gas; experiments in the use of hydrogen cyanide. Chem Age (Lond) 9:515 N 10 '23
Fumigation with hydrogen cyanide. W. G. Liston. Soc Chem Ind J (Chem & Ind) 44: 367-71 Ap 10 '25; Discussion. 44:847 Ag 21 '25
Improved method for the generation of hydrocyanic acid. F. V. Bichowsky. Ind & Eng Chem 17:57-8 Ja '25
Some molecular absorption spectra of hydrogen cyanide. E. F. Barker. Phys R 23: 200-4 F '24
Specific heats of carbon monoxide and hydrocyanic acid vapour. J. R. Partington and M. F. Carroll. diag Philos Mag 6th ser 49: 665-80 Ap '25

HYDRODYNAMICS
Case for the revival of the water channel. N. S. Norway. Roy Aeronautical Soc J 28: 647-52 N '24
Decay of a simple eddy. H. Bateman. U S Nat Advisory Com for Aeronautics 1922: 317-23 '23
L'écoulement des fluides visqueux autour d'un obstacle. C. Camichel, L. Escande and M. Ricaud. il Génie Civil 86:587-8 Je 13 '25
Electrical method for tracing stream lines in the two-dimensional motion of a perfect fluid. E. F. Relf. il diags Philos Mag 6th ser 48:535-9 S '24
Expériences sur la similitude hydrodynamique; application à l'établissement d'ouvrages hydrauliques et à l'aménagement des chutes d'eau. G. Camichel and L. Escande. il Génie Civil 86:60-3, 80-2 Ja 17-24 '25
Experimental determination of the inertia of a sphere vibrating in a liquid. N. C. Krishnaiyar. Philos Mag 6th ser 46:1049-53 D '23
Forced convection of heat in gases and liquids. C. W. Rice. Ind & Eng Chem 16: 460-7 My '24
Frequency of the eddies generated by the motion of circular cylinders through a fluid. E. F. Relf and L. F. G. Simmons. Philos Mag 6th ser 49:509-11 F '25
Hydrodynamics. H. Lamb. 5th ed. 687p Macmillan '24
Impact of a solid sphere with a fluid surface and the influence of surface tension, surface layers, and viscosity on the phenomenon. G. E. Bell. diags Philos Mag 6th ser 48:753-64, pl 15 N '24
Impact with liquid surfaces of solid bodies of various shapes. G. E. Bell. Philos Mag 6th ser 49:451-6, pl 7 F '25
Introduction to fluid motion. W. N. Bond. 94p Longmans '25
Jets, tubes et canaux. H: P. M. Bouasse. 554p Delagrave, Paris '23
Mechanical properties of fluids. C. V. Drysdale and others. 378p Van Nostrand '23
Motion of an air bubble rising in water. O. Miyagi. diags Philos Mag 6th ser 50:112-40, pl 3 Jl '25; Abstract. J Fr Inst 200: 815-16 D '25; Summary. Mech Eng 48:166-7 F '26
La résistance à la marche de cylindres de révolution remorqués dans le sens perpendiculaire à leur axe. Barrillon. Génie Civil 86:342-3 Ap 4 '25
Resistance experienced by spheres in their motion through gases. P. S. Epstein. Phys R 23:710-33 Je '24
La similitude des fluides visqueux. L. Escande and M. Ricaud. il Génie Civil 86: 518-19 My 23 '25

HYDRODYNAMICS—*Continued*
Some problems of two-dimensional hydrodynamics. D. M. Wrinch. Philos Mag 6th ser 48:1089-1104 D '24
Stability of laminar shearing motion in a viscous incompressible fluid. R. V. Southwell. Philos Mag 6th ser 48:540-53 S '24
Theorem in tidal dynamics. J. Proudman. Philos Mag 6th ser 49:570-9 Mr '25
Windage losses in air, hydrogen, and carbon dioxide. C. W. Rice. il diags Gen Elec R 28:336-41 My '25

See also Air resistance; Drops; Gases, Kinetic theory of; Heat convection; Hydrostatics; Ship resistance; Steam; Tides; Viscosity; Wave motion, Theory of; Waves

HYDROELECTRIC plants
Both have much to their credit; American and European hydraulic-turbine practice. Power 58:1034; 59:301-3, 457-8, 734-5, 959-60; 60:27, 65 D 25 '23, F 19, Mr 18, My 6, Je 10, Jl 1-8 '24
Co-ordination of irrigation and hydroelectric power. L: F. Leurey. J Elec 53:83-4 Ag 1 '24
Economics of hydro-electric development. D. W. Mead. il Am Soc C E Pro 50:417-52 Ap '24; Discussion. 50:881-94, 1309-10 Ag, O '24
Economics of hydro-electric power development. D. W. Mead. W Soc E J 29:[current news] 221-3 D '24
High specific speed hydraulic turbines in their bearing on the proportioning of the number of units in low-head hydroelectric plants. G: A. Jessop. Am Soc C E Pro 51:1043-9 Ag '25; Abstract. Mech Eng 47:286 Ap '25
Hydraulische hochspeicherkraftwerke. A. Maas. il diags Zeit Ver Deutsch Ing 68: 1161-7, 1195-9 N 8-15 '24
Hydro-electric power stations. D: B. Rushmore and E. A. Lof. 2d ed., rev. 830p Wiley '23
Hydro-electric schemes. A. H. Gibson. Elec R (Lond) 95:919-20 D 12 '24
Impressions of hydro-electric developments during 1924. C. E. Grunsky. Elec W 85: 90 Ja 10 '25
Intakes for hydro-electric power plant. R. W. Angus. il diags Can Eng 48:111-14, 129-32 Ja 6-13 '25
Interdependence of irrigation and hydroelectric power. J: D. Galloway. diag J Elec 52: 351-4 My 15 '24
Irrigation and electricity: report to the Department of the interior. Elec W 83:797 Ap 19 '24
Large low head water power developments. F. Lawaczeck. diags Engineering 118:434-6 S 19 '24
Latest design and practise in power plants; report of A.I.E.E. committee on power generation. Am Inst E E J 44:1183-8 N '25; Discussion. 44:1339-41 D '25
Many developments in hydroelectric field; report of hydraulic power committee of N.E.L.A. il Power Pl Eng 28:759-63 Jl 15 '24
Mechanical reliability of hydro-electric units. Power 61:966 Je 16 '25
Miniature water-power installation. D. C. Miller. il plan Elec R (Lond) 93:969-71 D 28 '23
Omitting generator bus effects saving. R. W. Shoemaker. diag Elec W 82:1073 N 24 '23
Operation of hydroelectric units for maximum kilowatt-hours; abstract. F. Nagler. Mech Eng 47:352-3 My '25
Philadelphia engineers club holds third hydro-electric conference, Mar. 10. Power 61:433-4 Mr 17 '25; Mech Eng 47:308-9 Ap '25
Poor water power development. G. H. Kimball. Power Pl Eng 29:204-5 F 1 '25
Power for the farm from small streams. A. M. Daniels, C. E. Seitz and J. S. Glenn. U S Agric Farmers' Bul 1430:1-36 '25
Proceedings of the first World power conference; water power production. Engineering 118:42-7 Jl 11 '24
Progress in hydro-electric development. il Elec W 85:38 Ja 3 '25
Progress in hydroelectric practice outlined. W. M. White. Power Pl Eng 28:281-2 Mr 1 '24
Proportioning of units in low-head plants. J: P. Hogan. Am Soc C E Pro 51:1062-4 Ag '25
Recent advances in hydro-electric engineering practice. L. F. Harza. W Soc E J 29: 339-49 S '24; Abstract. Power Pl Eng 28: 572-3 My 15 '24; Summary. Eng & Contr (W W) 62:1296 D 10 '24
Reguliergarantien für wasserkraftanlagen. K. Lubowsky. Elektrotech Zeit 45:1025 S 25 '24
Report of the N.E.L.A. hydraulic power committee. il Elec W 85:1341-2 Je 20 '25
Right conditions aid hydro-electric operation. C: B. Hawley. Power Pl Eng 29:551-3 My 15 '25
River water-power installations. Venin and Delaly. Engineering 120:241 Ag 21 '25
Small hydro-electric units. il diags Engineering 119:279-81, 339-40, 407-9, 502-4 Mr 6, 20, Ap 3, 24 '25
Structural design features of a hydroelectric development near Bristol, New Hampshire. W: D. Henderson. il diags plan Boston Soc C E J 12:169-91 Ap '25
Study of hydroelectric possibilities. J: P. Hogan. Mech Eng 46:10-11 Ja '24
Système collecteur pour l'utilisation de l'eau de réservoirs d'altitudes différentes, sur les turbines d'une usine électrique. diag Génie Civil 83:463-4 N 10 '23
Village hydro-electric installation; the Brodick, Arran, N.B., plant. W: Harrower. il Elec R (Lond) 95:170-1 Ag 1 '24
Die wasserkraft-speicheranlagen Tübingen und Reutlingen. A. Maas. il diags Zeit Ver Deutsch Ing 68:1344-5 D 27 '24
Wheels that turn beauty and power. J: S. Fitz. il Am Ind 24:27-9 Mr '24
Zur berechnung von wasserschlössern. E. Braun. diags Zeit Ver Deutsch Ing 69:964-5 Jl 18 '25

See also Dams; Muscle Shoals project; Penstocks; Surge tanks; Turbines; Water power

Accidents

Hazards in hydro-electric stations. C. A. Sears. Power 62:626 O 20 '25

Automatic operation

Automatic hydro-electric generating station. il Elec W 86:373 Ag 22 '25
Automatic hydro-electric plant of the San Gorgonio power company. P. B. Garrett. il Elec J 22:286-9 Je '25
Automatic hydro-electric stations. C. W. Place. il Gen Elec R 28:364-8 Je '25
Automatic stations in New England. T. A. Barry. il Gen Elec R 28:392-7 Je '25
Great Works hydro-electric plant has original design. R. J. Andrus. il plan Elec W 84: 304-7 Ag 16 '24
Hydro station receives attention once a month. C. Shafer. il Power Pl Eng 28:705 Jl 1 '24
Load control in automatic hydro-electric generating stations. R. C. Denny. diags Power 59:716-17 My 6 '24
Present practise in the automatic operation of hydroelectric generating stations. R. J. Wensley. il Am Inst E E J 43:508-13 Je '24; Excerpts. Power 59:1046-7 Je 24 '24; Discussion. Am Inst E E J 44:263-70 Mr '25
Remote-control hydro-electric plant operates on old canals of Holyoke. il Power 62:330-2 S 1 '25
7,300-kva. automatic hydro station, Sprite Creek development of Adirondack power & light company. L. A. Whitsit. il diags Elec W 83:1319-22 Je 28 '24
Some features of automatic generating plant design and operation; report of Pacific coast electrical association. J Elec 54:490-2 Je 1 '25
Supervisory control and indication. Elec W 86:857 O 24 '25

HYDROELECTRIC plants—*Continued*

Auxiliary plants

Diesel engine for stand-by service. H. L. Conklin. il Power Pl Eng 28:851-2 Ag 15 '24
Diesel-engine stand-by plant at Iron River, Michigan. il map Power 60:390-3 S 9 '24
Energy costs reduced by auxiliary steam plants. Elec Ry J 63:290 F 23 '24
Heat balance in Devon station. diags Power 59:674-5 Ap 29 '24
Operation of hydroelectric systems with auxiliary steam plants for best economy and proper governing; abstract. M. White. Mech Eng 47:352 My '25
Parallel operation of hydro and steam plants. F. A. Allner. diags Mech Eng 47:727-31 S '25; Same cond. Power Pl Eng 29:805-8 Ag 1 '25; Abstract. Power 61:886-7 Je 2 '25
Problems of modern power system operation. F. B. Lewis. J Elec 55:249 O 1 '25
Southern fugitive waters require steam reserves. il Elec W 85:704 Ap 4 '25
Steam-power in its relation to water power. R: C. Powell. Am Inst E E J 44:1291-5 D '25; Same cond. Power Pl Eng 29:1042-5 O 15 '25
Tests of stand-by steam plant of Winnipeg hydro-electric system. Engineering 120:54 Jl 10 '25

Construction

Building a hydro-electric plant on Saguenay river. il diag maps plan Eng N 93:616-19, 662-5, 702-5 O 16-30 '24
Les canaux d'amenée en charge et les cheminées d'équilibre des usines hydrauliques. diags Génie Civil 87:308-11 O 10 '25
Developing a 14,000-hp. water power 9,000 ft. above sea level at Leevining Creek. R. R. Benson. il Power 61:238-9 F 24 '25
Great Works hydro-electric plant has original design. R. J. Andrus. il plan Elec W 84: 304-7 Ag 16 '24
Low-head power plant designed for typical mid-west river; Pinhook hydro-electric plant. E. L. Chandler. il diags plan Eng N 94:762-3 My 7 '25
New England power company Davis Bridge development. A. C. Eaton. il diags map plans Boston Soc C E J 12:1-33; Discussion. 33-48 Ja '25
Principes et règles d'établissement des conduites hydrauliques forcées. diags Génie Civil 85:451-5 N 15 '24
Redevelopment improves output of low-head power sites. H: W. Taylor. il diags Eng N 93:754-6 N 6 '24
Redevelopment of Spiers Falls hydro-electric project. C. Voetsch. il diags plan Power 60: 968-72 D 16 '24
7,300-kva. automatic hydro station; Sprite Creek development of Adirondack power & light company. L. A. Whitsit. il diags Elec W 84:111-14 Jl 19 '24
L'usine hydro-électrique de Davis bridge, sur la Deerfield river (États-Unis). P. Caufourier. diags map Génie Civil 85:254-6 S 20 '24
Winter hydroelectric plant construction in Minnesota. G: H. Herrold. il map Eng N 94:230-2 F 5 '25
Winter reconstruction at the Spier Falls power plant. C. Voetsch. il diags plan Eng N 93:791-5 N 13 '24

Control

Emergency control for generating stations. diags Elec W 84:1055-6 N 15 '24
Huron river hydro plants. Elec W 84:911 O 25 '24
Hydraulische mehrfach-steuerungen. K. Laudien. diags Stahl & Eisen 45:265-7 F 19 '25
Semi-automatic operation for small hydro plants. C. W. Geiger. il Power Pl Eng 29: 1106-7 N 1 '25

See also Hydroelectric plants—Automatic operation

Cost of construction

Construction costs at Davis Bridge. Elec W 85:208 Ja 24 '25
Wilson dam power house quantities and costs. Eng & Contr (G C) 63:828 Ap 17 '25

Costs

American and Norwegian hydro-electric costs. E. G. Hopson. Eng N 92:462 Mr 13 '24
Capital costs of Sheet Harbor system. H. S. Johnston. il diag Can Eng 49:509-11 N 3 '25
Diesel engines and hydro-electric power stations. A. Buchi. Engineer 140:120-1, 146-8 Jl 31-Ag 7 '25
Proportioning costs in hydro-electric developments. J. C. Smith. Power 58:969 D 11 '23
Relative cost of water and steam power. H. Erickson. Power 59:827-8 My 20 '24
Steam-power in its relation to the development of water-power. R: C. Powell. Am Inst E E J 44:1291-5 D '25; Same cond. Power Pl Eng 29:1042-5 O 15 '25
Water-power costs versus steam-power costs. G: A. Orrok. Mech Eng 46:11-12 Ja '24; Same. Power Pl Eng 28:198-9 F 1 '24
Wilson dam—its cost and value. M. C. Tyler. Elec W 86:739-41 O 10 '25; Discussion. 86: 1157 D 5 '25

Engineers' reports

Bankers report on public utilities; brief form for engineers. H. Almert. Prof Eng 10:5-6 Je '25

Equipment

Construction details of Copco no. 2. P. O. Crawford. il diag Elec W 86:889-91 O 31 '25
Davis Bridge development of the New England power company. il diags map Power 59:776-9 My 13 '24
Davis Bridge power plant development of the New England power company. E. B. Collins and H. R. Wilson. il diags map Gen Elec R 27:665-72 O '24
Details of the Soda development of the Utah power & light company. L. B. Fuller. il diags map J Elec 54:122-8 F 15 '25
Diesel engines and hydro-electric power stations. A. Buchi. Engineer 140:120-1, 146-8 Jl 31-Ag 7 '25
Dix River hydro-electric development. F. A. Dale. il diags plan Elec W 86:939-42 N 7 '25
Electric hoist rake clears forebay of trash. Power Pl Eng 27:1177 D 1 '23
Engineering features of Pit no. 3. E. A. Crellin. il map plans Elec W 86:450, 455-60 S 5 '25
Fifteen years' progress in water-power development at Holtwood. il diags map Power 60:522-7 S 30 '24
Getriebekupplungen für niederdruck-wasserkraftwerke. il diags Elektrotech Zeit 45: 472-4 My 8 '24
Hetch Hetchy power development. M. M. O'Shaughnessy. il plans Elec W 86:206-11 Ag 1 '25
Hydraulic accumulation. A. Maas. Elec W 85: 57 Ja 3 '25
Hydro-electric development at Muscle Shoals, Alabama. il diags plans Engineer 140:68-70, 82-4 Jl 17-24 '25
Hydro-electric development with special reference to the hydraulic equipment. W: M. White. il diag Boston Soc C E J 11:1-16 Ja '24; Same. Can Eng 46:639-42 Je 24 '24; Abstracts. Power 59:32-3 Ja 1 '24; Elec W 83:226-7 F 2 '24
Hydro-electric equipment discussed at A.I. E.E. Elec W 83:761-3 Ap 19 '24
Hydro-electric plant at Niagara Falls has 452,500 hp. installed nominal capacity. il diag Power 61:324-30 Mr 3 '25
Hydro turbines with propellor runners. F. Johnstone-Taylor. il diags Can Eng 49:263-5 S 1 '25
Mechanical features affecting the reliable and economical operation of hydroelectric plants. E. A. Dow. il diags map plan Mech Eng 47: 825-31 O '25; Same cond. Power Pl Eng 29: 843-5 Ag 15 '25; Discussion. Mech Eng 47: 831 O '25

HYDROELECTRIC plants—Equipment—*Cont.*
Nevada plant's experience with Diesel engines. Elec W 84:795-6 O 11 '24
New type of hydraulic turbine at Wynau, Switzerland. il diags Engineer 139:220-1 F 20 '25
Pit river hydraulic development involves novel features. W. Dreyer and G. R. Henninger. il diags plans J Elec 55:118-28 Ag 15 '25
Present trends in western hydro-electric practice. E. C. Hutchinson. il Elec W 86:614-18 S 26 '25
Le puits-déversoir pour l'évacuation souterraine de crues du barrage-réservoir de Davis Bridge (Vermont, E.-U.). P. Caufourier. il diags Génie Civil 85:269-72 S 27 '24
Recent developments in hydroelectric equipment. W: M. White. il Am Inst E E J 43: 519-24 Je '24; Abstract. Power 59:699 Ap 29 '24; Discussion. Am Inst E E J 44:53-5 Ja '25
Recent European hydraulic machinery design. F. Johnstone-Taylor. il diags Power Pl Eng 29:742-5 Jl 15 '25
Rolling and sector gates for hydro plants. C. N. Anderson. il diag Elec W 84:21-2 Jl 5 '24
Second largest plant on coast completed by Pacific gas and electric company. G. R. Henninger. il diags map J Elec 55:129-37 Ag 15 '25
Skagit river development of the city of Seattle. J. D. Ross. il J Elec 55:81-3 Ag 1 '25
Venturi meters used in hydro-electric plant operation. J. M. Gaylord. il diags Power 62:137-8 Jl 28 '25

Finance

Hydro-electric earnings. Moody's Inv Serv 17:46 F 5 '25

Ice protection

Ice control methods at Shelburne Falls. J. H. Kennedy. il Power Pl Eng 28:895-6 S 1 '24
Ice problems at hydro-electric plants. T: H. Hogg. Can Eng 47:498-500 N 11 '24
Ice problems at hydro-electric plants; discussion at A.S.C.E. fall meeting. Power 60: 743-5 N 4 '24; Eng N 93:714-15 O 30 '24
Ice problems of hydro-plants. W. T. Walker. Eng & Contr (W W) 60:1254-5 D 12 '23
Ice trouble at hydro plants; abstract and discussion. J: Murphy. Elec W 84:962-3, 1054 N 1, 15 '24
Ice troubles in Norwegian water-power plants. A. Ruths. Engineering 118:73-4 Jl 11 '24; Same abr. Eng & Contr (W W) 62: 805-9 O 8 '24; Abstract. Eng N 93:265-6 Ag 14 '24
Ice troubles in Swedish power plants. A. F. Samsioe. Can Eng 49:231-2 Ag 18 '25; Same cond. Engineering 118:463 S 26 '24
Overcoming ice difficulties at the Holtwood power plant. H. W. Lowy. il Boston Soc C E J 12:142-9 Mr '25
Preventing ice formation on water turbines. R. S. Hyatt. diag Elec W 83:386 F 23 '24

Maintenance and repair

Grouting reinforces rock at Oak Grove surge chamber; novel extensometers for tests during work in tunnel. il plan Eng N 95:746-9 N 5 '25
Maintenance of wood-stave pipe in hydro-electric practice. B. E. White. il Power 60: 794-6 N 18 '24

Protection

Automatic eliminators for alluvial matter in water-turbine supplies. H: Dufour. diags Engineering 120:247-9, 313-16, 379-81 Ag 28, S 11, 25 '25; Excerpt (pt 2). Mech Eng 47: 928-30 N '25
La construction et l'entretien des grilles pour la protection des turbines hydrauliques. il diags Génie Civil 85:225-30 S 13 '24
Hydro-electric plant at Forshuvudforsen, Sweden. il diags Engineering 119:95-7 Ja 23 '25

See also Hydroelectric plants—Ice protection

Reconstruction

Dam and power-house reconstruction at Marinette, Wis. D. G. Moon. il diags plans Eng N 94:973-6 Je 11 '25

Safety devices and measures

Rope net in surge chamber safeguards workmen. il Eng N 94:990 Je 11 '25

Tables, calculations, etc.

Der einfluss der energiespeicherung auf die energiewirtschaft und die rentabilität von wasserkraftanlagen. R. J. Nowotny. Elektrotech Zeit 45:1138-43 O 23 '24
Power rates in hydro development. R. F. Ewald. Elec W 84:993-5 N 8 '24; Discussion. D. M. Wood. 84:1309 D 20 '24

Testing

Proposal for uniform rules for testing water-power plants. G. Sundby. Engineering 118: 145-7 Jl 25 '24
Standard tests for hydraulic power plants; discussion. diags Engineer 137:354-6; 138:49 Ap 4, Jl 11 '24; Engineering 117:439-41; 118: 51-2 Ap 4, Jl 11 '24

Alabama

Alabama power company's system. il N E L A Bul 10:763-5 D '23
Lock 18 development in Alabama. F. G. Switzer. diags plan Elec W 86:795-6 O 17 '25
Tallapoosa's six dams. Elec W 83:1296 Je 21 '24

See also Muscle Shoals project

Alberta

Cascade river hydro power development. J. M. Wardle. il diag plan Can Eng 48:595-8 Je 23 '25
Hydro-electric development in Alberta. il Elec R (Lond) 96:102 Ja 16 '25

Arkansas

Completing $1,600,000 Remmel dam on Ouachita river in Arkansas. il Manuf Rec 86:96-9 O 2 '24
Remmel dam in service. il Elec W 85:270 Ja 31 '25

Austria

Der ausbau der wasserkräfte in Oesterreich. E. Honigmann. map Elektrotech Zeit 46: 420-1 Mr 19 '25
Betrachtungen über die förderung des ausbaus von wasserkräften in österreich und Deutschland. K. Köbler. Elektrotech Zeit 46:985-9 Jl 2 '25
Hydro-electric development and possibilities in Austria summarized. W: F. Upson. Elec W 86:558 S 19 '25
Hydro-electric power station at Partenstein, Austria; abstract. A. Kvetensky. Elec W 84: 128 Jl 19 '24
Vienna builds remarkable power project on Ybbs river. O: Lemberger. il diag map plan Eng N 92:494-6 Mr 20 '24

British Columbia

Alouette-Stave lake hydro development. C. E. Blee. il diags map plan Can Eng 49:223-8 Ag 18 '25
Blind Slough dam at Stave lake, B.C. A. F. Tredcroft. il Can Eng 45:541-4 D 4 '23
Bridge river to be used. Elec W 86:765 O 10 '25
Fifth Stave Falls unit in operation. Elec W 86:431 Ag 29 '25
Forty years power needs for Vancouver will be met by Bridge River development. map J Elec 55:305-6 O 15 '25
Hydro-electric plant, Pacific mills, ltd. G. S. Barry. il Can Eng 46:161-2 Ja 22 '24
Large power development, Stave Falls. il Can Eng 48:359-64 Mr 31 '25
Power development in B.C. il Can Eng 47: 423-4 O 14 '24
Stave Falls development, British Columbia. il diags maps Engineering 120:279-82, 348-51, 358, pl 17-19, 24 S 4, 18 '25

HYDROELECTRIC plants—British Columbia —*Continued*
Stave Falls power plant opened. il Can Eng 49:453 O 13 '25
Water power in British Columbia. il Elec R (Lond) 95:819 N 28 '24

California

America's highest-head hydro plant to be built on Kings river. il J Elec 54:241-2 Ap 1 '25
Automatic hydro-electric plant of the San Gorgonio power company. P. B. Garrett. il Elec J 22:286-9 Je '25
Battling with a power shortage. R. H. Ballard. il Elec W 85:87-9 Ja 10 '25
Big Creek-San Joaquin hydroelectric project. il map Power Pl Eng 28:167-72 F 1 '24
California power shortage of 1924. H. G. Butler. il Elec W 85:193-7 Ja 24 '25
Construction details of Copco no. 2. P. O. Crawford. il diag Elec W 86:889-91 O 31 '25
Construction of 13-mile Florence Lake tunnel sets many records. J Elec 54:161-5 Mr 1 '25; Eng & Contr (G C) 63:803-5 Ap 17 '25
Construction under way on Pit no. 3 project. Eng N 91:904 N 29 '23
Court enjoins storing water for Florence Lake tunnel. Power 61:358 Mr 3 '25
Developing a 14,000-hp. water power 9,000 ft. above sea level at Leevining Creek. R. R. Benson. il Power 61:238-9 F 24 '25
Engineering features of Pit no 3. E. A. Crellin. il map plans Elec W 86:450, 455-60 S 5 '25
Fourth unit added to two original Big Creek plants. R. C. Booth. il J Elec 55:336-7 N 1 '25
Hydroelectric construction and progress to meet growing power demand; Big Creek plant. W. D. Shaw. il J Elec 54:542, 544-6 Je 15 '25
Hydro-electric system of Pacific gas & electric company. J. P. Jollyman. il map Elec J 22:274-7 Je '25
Largest hydroelectric plant in the West placed in service. il Munic & Co Eng 66: 232-5 My '24
Moccasin Creek power plant. C: W. Geiger. il Pub Works 55:35-6 Ja '24
105,000 hp. hydro-electric development placed in service by the Southern California Edison co. il Eng & Contr (W W) 60:1018-19 N 14 '23
Pit no. 3 hydro plant completed. J. C: Jordan. il Power Pl Eng 29:868-9 Ag 15 '25
Pit river hydraulic development involves novel features. W. Dreyer and G. R. Henninger. il diags plans J Elec 55:118-28 Ag 15 '25
Pit river no. 3 hydro-electric development. il Elec W 85:340; 86:185 F 14, Jl 18 '25; J Elec 54:598; 55:104-5 Je 15, Ag 1 '25
Pit river plant no. 3. Pub Serv Management 39:69-71 S '25
Power company keeps plan decade ahead of developments; program of Southern California Edison co. for new San Joaquin valley power units mapped out to 1935. Eng N 92:207 Ja 31 '24
Progress on the Big Creek system. E. V. Pannell. il Electrician 92:64-7 Ja 18 '24
Recent hydro-electric development in southern Oregon and northern California. P. O. Crawford. il diag map Elec J 22:278-80 Je '25
San Francisco's Hetch Hetchy power and water project. il plan Power 62:238-41 Ag 18 '25
San Francisco's Hetch-Hetchy water supply and power development. M. M. O'Shaughnessy. il Gen Elec R 27:78-84 F '24
Second largest plant on coast completed by Pacific gas and electric company. G. R. Henninger. il diags map J Elec 55:129-37 Ag 15 '25
Stupendous power project on the Pacific coast; the program of the Southern California Edison company. S. P. Panton. il Manuf Rec 86:93-6 Ag 7 '24
Water power makes California. F. A. Leach, jr. il Elec W 85:1171-4 Je 6 '25
World's largest engineering project; the undertaking of the Southern California Edison co. T. B. Ross. il Elec R (Lond) 95:861-3, 888-9; 96:21-3, 44-5, 271-2, 299-300, 351-3 D 5-12 '24, Ja 2-9, F 13-27 '25

Canada

Great Falls hydro-electric development of the Manitoba power company. il diags maps plan Power 59:436-42 Mr 18 '24
Hydro-electric power installed in 1924. Can Eng 48:107-9 Ja 6 '25
Hydro-electric progress in Canada, 1923. Can Eng 46:177-8 Ja 22 '24; Same. Engineer 137:153-4 F 8 '24; Same. Elec R (Lond) 94: 350-1 F 29 '24; Same cond. Elec W 83:350-1 F 16 '24
Hydro progress in Canada during 1924. Power 61:201 F 3 '25
Principal hydro-electric developments: 1924. Eng N 94:78 Ja 8 '25
Quinze river hydro-power development. il diag plan Can Eng 48:333-7 Mr 24 '25
Water power resources of Canada; abstracts. J. B. Challies. Engineering 118:301-2 Ag 29 '24; Can Eng 47:257-63 Ag 19 '24

See also Hydroelectric plants—Ontario; Hydroelectric plants—Quebec

Ceylon

Aberdeen-Laxapana hydroelectric scheme, Ceylon. il diag maps Engineering 118:473-5 O 3 '24
High head hydro-electric scheme in Ceylon. Engineer 139:619 Je 5 '25

Chancy-Pougny

Chancy-Pougny hydro-electric power station. il diags plans Engineer 139:321-4, 328 Mr 20 '25
La construction de l'usine-barrage de Chancy-Pougny. L: Vennin. diags maps Soc Ing Civils Bul 77:324-54, pl 72 Ap '24
L'usine hydro-électrique de Chancy-Pougny sur le Haut-Rhône. C: Dantin. il diag map plans Génie Civil 85:1-10, pl 1 Jl 5 '24

Colorado

Early hydroelectric plant in western Colorado. C. Anderson. J Elec 53:315 N 1 '24

Czechoslovakia

Das wasserkraft-elektrizitätswerk Kaaden in der Tschechoslowakischen Republik. F. Niethammer. diags plan Elektrotech Zeit 46:189-92 F 5 '25

Danzig

Das radaunewerk der freien stadt Danzig. K. Jacob and C. Liebisch. il map Elektrotech Zeit 46:1371-4, 1408-11 S 3-10 '25

Dixon, Illinois

Largest seven-foot head hydro-electric plant. il plan Power 62:2-5 Jl 7 '25

England

Electricity in York. E. W. Wright. Electrician 93:182 Ag 15 '24
Ringwood hydro-electric station. il diags Elec R (Lond) 96:284-5 F 20 '25

Europe

Great developments in Norway, Sweden and Switzerland. G: Brockner. Electrician 95: 240 Ag 28 '25

Finland

Electrical developments in Finland; the inimitable Imatra. T. Stevens. il Elec R (Lond) 97:684-5 O 30 '25
Hydro-electric development in Finland. H. Malmi. Elec W 86:699 O 3 '25

France

Le barrage-réservoir du Sautet, sur le Drac (Isère). E. Dusaugey. il diags maps Génie Civil 87:12-17 Jl 4 '25
Electrical power in the Savoie. Elec W 83: 1327-8 Je 28 '24

HYDROELECTRIC plants—France—*Continued*
Hydro-electric schemes in Alsace. Engineer 139:211 F 20 '25; Same cond. Power 61:437 Mr 17 '25
L'installation d'accumulation d'énergie hydraulique des Manufactures Hartmann, à Munster (Haut-Rhin). il plans Génie Civil 84:29-32 Ja 12 '24
Super-power hydro-electric developments in France. Manuf Rec 86:69 O 30 '24
Le IIIe Congrès international de la houille blanche (Grenoble, 4-9 juillet 1925). A. Pawlowski. Génie Civil 87:88-92, 105-8 Jl 25-Ag 1 '25
Usine hydro-électrique de Belleville (Savoie); station de pompage relevant l'eau dans le lac de la Girotte. C: Dantin. il diags map plans Génie Civil 86:449-53 My 9 '25
L'usine hydro-électrique Drac-Romanche à Pont-de-Claix (Isère). P. Dufour. il diags plans Génie Civil 84:1-8 Ja 5 '24
Die wasserkraftanlage Mauzac an der Dordogne. R. Hofmann. il diags Zeit Ver Deutsch Ing 68:399-400 Ap 19 '24

See also Hydroelectric plants—Chancy-Pougny

Georgia

Another big unit added to hydroelectric power in Georgia. il Pub Serv Management 38:103 Ap '25
Completing $18,000,000 program of power expansion in North Georgia. L. K. Starr. il Manuf Rec 87:86-7 F 12 '25
Vast water power kingdom developed in the mountains of northern Georgia. il Pub Serv Management 37:112-15 O '24

Germany

Betrachtungen über die förderung des ausbaus von wasserkräften in österreich und Deutschland. K. Köbler. Elektrotech Zeit 46:985-9 Jl 2 '25
Die fördereinrichtungen beim bau der Schwarzenbach-talsperre. M. Enzweiler. il diag plan Zeit Ver Deutsch Ing 68:718-20, 737-9 Jl 5-12 '24
Francisturbinen mit liegender welle nach der einbauweise von Hallinger. C. Reindl. il diags Zeit Ver Deutsch Ing 68:119-23 F 9 '24
Das kraftwerk Burghausen der Alzwerke G. m. b. H. G. Wolff. il diags plan Zeit Ver Deutsch Ing 68:721-8 Jl 12 '24
Das Ostpreussenwerk. O. Jahnke. il diags maps Elektrotech Zeit 45:1073-6 O 9 '24
Die restlose ausnützung der bayerischen wasserkräfte. O. v. Miller. Elektrotech Zeit 46:1-6 Ja 1 '25
Verteilung der elektrischen energie mit besonderer berücksichtigung des Bayernwerkes. A. Menge. il diags maps plans Zeit Ver Deutsch Ing 69:577-87, pl 3 My 2 '25
Das Walchenseewerk. A. Menge. il diags map plans Elektrotech Zeit 46:605-14, 647-55 Ap 23-30 '25
Das Zweribachwerk. K. Köbler. il diags maps Elektrotech Zeit 46:1611-17 O 22 '25

Holyoke, Massachusetts

Remote-control hydro-electric plant operates on old canals of Holyoke. il Power 62:330-2 S 1 '25

Idaho

Earliest hydro development in Idaho constructed in 1887. F. J. Rankin. il J Elec 53:391 D 1 '24

India

Considerations in the development of water power, with special reference to India. B. D. Richards. Electrician 94:751 Je 26 '25
Hydro-electric development in India. Elec R (Lond) 95:991 D 26 '24

Indiana

Hydro-electric plants on Tippecanoe river, Indiana. il Elec W 84:1275 D 13 '24

Iowa

Low-head power plant designed for typical mid-west river; Pinhook hydro-electric plant. E. L. Chandler. il diags plan Eng N 94:762-3 My 7 '25

Ireland

Bandon hydro-electric undertaking; practical water-power development in Ireland. J. Murphy. Elec R (Lond) 96:77-8 Ja 9 '25
Electrical methods in Ireland. Engineering 117:339-40, 572-3 Mr 14, My 2 '24
Electrification of the Irish Free State. diags Engineering 119:662-3, 694-5, 725-7 My 29-Je 12 '25; Abstract. Génie Civil 87:311-13 O 10 '25
Liffey power scheme. R. N. Tweedy. map Elec R (Lond) 94:244-5, 285-7 F 15-22 '24

Italy

American capital and the development of hydro-electric power in Italy. Econ W n s 30:437-8 S 26 '25
Corfino hydro-electric scheme in Tuscany. il Elec R (Lond) 95:143-5 Jl 25 '24
Italian hydroelectric industry. L. Dominian. U S Bur For & Dom Com Trade Information Bul 238:1-17 '24
Italiens grösstes wasserkraftwerk. E. Passerini. il Elektrotech Zeit 46:309-10 F 26 '25
Lake Truzzo hydro-electric works. diag Engineer 140:181 Ag 21 '25
Pipe lines of the Moncenisio hydro-electric plant. S. L. R. Hollis. il diags plan Engineer 137:692-4 Je 20 '24
Sila hydro-electric development scheme. J. S. Barnes. diag map plan Elec R (Lond) 97:324-6 Ag 28 '25
Upper Reno power project. diag plan Engineer 139:608 My 29 '25
Water-power development in Italy. A. R. Decker. il Power 61:492-4 Mr 31 '25

Japan

Hydroelectric power plant just completed in Japan. il Power Pl Eng 29:267-8 F 15 '25
Modern Japanese hydro plant; Momoyama station of the Diado electric power company. S. Kinugawa. il diags map Elec W 84: 454-7 S 6 '24
Momoyama hydro-electric plant added to Japanese system. S. Kinugawa. il Eng N 94:154 Ja 22 '25
Recent hydro-electric developments in Japan. il Power Pl Eng 29:601-3 Je 1 '25

Kentucky

Dix River dam and power house completed. il diag Power Pl Eng 29:1060-2 O 15 '25
Dix River hydro-electric development. F. A. Dale. il diags Elec W 86:938-42 N 7 '25
Dix River hydro-electric plant. il diags Power 62:481-3 S 29 '25
Kentucky falls top old Niagara. Pub Serv Management 38:70 Mr '25
World's largest rock-fill dam built on Dix river. G: W. Howson. il diags Eng N 94: 548-52 Ap 2 '25

Louisville, Kentucky

Large hydro plant planned for Louisville. Power Pl Eng 29:1030 O 1 '25

Maryland

Big hydro-electric work in western Maryland. Manuf Rec 86:109-10 O 2 '24

Massachusetts

New England power starts Sherman Bridge plant. Elec W 86:284 Ag 8 '25
Redevelopment improves output of low-head power sites. H: W. Taylor. il diags Eng N 93:754-6 N 6 '24

Michigan

Conduit spillway plant in Michigan has 65-ft. head. Elec W 85:207-8 Ja 24 '25
Eleven millions on unified system. il Pub Serv Management 39:72-6 S '25

HYDROELECTRIC plants—*Continued*

Minnesota

Ford company develops and uses power at High Dam in St Paul. il Eng N 94:647 Ap 16 '25

New Brunswick

Grand Falls power development. Can Eng 48:439-40 Ap 28 '25

Hydro-electric development at Grand Falls, N. B. diags plans map Can Eng 49:181-90 Ag 4 '25

Hydro power in New Brunswick. Can Eng 48:424 Ap 21 '25

Musquash hydro-electric development. F. B. Casey. il diag Can Eng 46:405-9 Ap 8 '24

Power in New Brunswick. Elec W 86:965 N 7 '25

Report favors development of Grand Falls. Can Eng 46:395-6 Ap 1 '24

New York (state)

L'extension des usines de la Niagara Falls power co., à Niagara Falls (E.-U.); les turbines hydrauliques de 70 000 ch. il diags plan Génie Civil 87:328-33 O 17 '25

Hydroelectric giant: Niagara Falls power company, world's largest hydroelectric unit of 70,000 horsepower. il Sci Am 130:164-5 Mr '24

Hydro-electric plant at Niagara Falls has 452,500 hp. installed nominal capacity. il plans Power 61:324-30 Mr 3 '25

Largest hydro-electric unit in the world placed in operation at Niagara Falls. il Power 58:1046 D 25 '23; Elec W 82:1284 D 22 '23

New York's white elephant; no market for power developed by state. Elec W 85:265 Ja 31 '25

Plan submitted for Niagara gorge power. Elec W 83:494 Mr 8 '24

Power developments on the Barge canal. il diag plan map Power Pl Eng 28:882-6 S 1 '24

Redevelopment of Spiers Falls hydro-electric project. C. Voetsch. il diag plan Power 60: 968-72 D 16 '24

7,300-kva. automatic hydro station; Sprite Creek development of Adirondack power & light company. L. A. Whitsit. il diags Elec W 83:1319-22; 84:111-14 Je 28, Jl 19 '24

Sherman Island dam and power-house. H. de B. Parsons. il diags plans Am Soc C E Pro 51:341-76 Mr '25; Excerpts. Eng & Contr (W W) 63:735-42, 1025-32 Ap 10, My 13 '25; Discussion. Am Soc C E Pro 51:911-25 My '25

Sherman Island hydro-electric development of the International paper company. il diags Power 58:836-42 N 27 '23

Sherman Island hydro-electric development of the International paper company. B. R. Connell and W. T. O'Connell. il diags plan map Gen Elec R 26:804-17 D '23

Three 70,000-hp. turbines installed at Niagara Falls. il diags plans Eng N 94:304-10 F 19 '25

World's largest hydro unit; Niagara Falls power company's new turbo-generator. M. C. Olsen and E. B. Plenge. il diag Elec W 83:174-7 Ja 26 '24

New Zealand

Diversion tunnel gates for the Arapuni hydro-electric power supply. il diags Engineering 119:764-5 Je 19 '25; Same. Eng & Contr (W W) 64:1065-9 N 11 '25

Government hydro-electric scheme at Mangahao. il Elec R (Lond) 97:284-5 Ag 21 '25

Hydro-electric power development in New Zealand; the government Mangahao scheme, North Island. il diags plans Elec R (Lond) 95:314-16 Ag 29 '24

Hydro-electric power in New Zealand. Power 62:564 O 13 '25; Elec W 86:888 O 31 '25

Mangahao hydro-electric scheme. il diag map plan Engineer 139:266-8, 270 Mr 6 '25

Newfoundland

Humberarm hydro-electric development in Newfoundland. il map plan Engineer 138: 514-17, 526 N 7 '24

Hydro-electric power development in Newfoundland. il Engineering 118:125-7, pl 13-16 Jl 25 '24

Newfoundland power development. A. A. Paoli and F. A. McLean. il map Can Eng 48:515-22 My 26 '25

Power development at Seal Cove, Nfld. il Can Eng 46:531-2 My 20 '24

North Carolina

Automatic hydro plant in North Carolina. map Power Pl Eng 28:358 Mr 15 '24

Catawba river development. map Elec W 83: 1234-6 Je 14 '24

Extensive additions to facilities of Southern power company. il Manuf Rec 85:33-4 Mr 13 '24

Progressive development of the Catawba river. A. C. Lee. Elec W 84:432 Ag 30 '24

Norway

City and state build power plant on Glommen river near Kristiana. J. B. Naumann. il Eng N 93:143 Jl 24 '24

Combating ice trouble in water power plants in Norway. A. Ruths. Eng & Contr (W W) 62:805-9 O 8 '24

Electricity in Oslo, Norway. J. B. Naumann. il map Elec W 85:509 Mr 7 '25

Hydro-electric practice in Norway. H: A. Pulliam. il Power 60:494-7 S 23 '24

To build three high-head power plants in Norway. E. Svanöe. il diag plan Eng N 92: 106-7 Ja 17 '24; Discussion. E. G. Hopson. 92:462 Mr 13 '24

Die turbinen der Raanaasfoss-wasserkraftanlage, Norwegen. H. Thoresen. il diags Zeit Ver Deutsch Ing 68:368-76 Ap 12 '24; Same. Can Eng 45:581-5, 601-6 D 18-25 '23; Same. Engineer 137:60-3, 86-8 Ja 18-25 '24

White coal of Norway. il map Electrician 93: 8-11, 175, 200-2 Jl 4, Ag 15-22 '24

Nova Scotia

Capital costs of Sheet Harbor system. H. S. Johnston. il diag Can Eng 49:509-11 N 3 '25

Hydro-electric plant, Bridgewater, N.S. S. E. March. il plan Can Eng 49:121-3 Jl 14 '25

Hydro power development at Ruth Falls. L. B. McCurdy. diag map plan Can Eng 47: 381-3 S 30 '24

Remarkable growth of hydro-electric development in Nova Scotia. Electrician 94:180 F 13 '25

St Margaret's Bay hydro development. il diags plan Can Eng 47:639-42 D 30 '24

Sheet Harbor hydro-electric power system. il plans map Can Eng 48:583-8 Je 16 '25

Water-power in Nova Scotia. il Elec R (Lond) 96:60-1 Ja 9 '25

Oklahoma

Major construction in Oklahoma in 1924. R. D. Foote. il Elec W 85:288, 293 F 7 '25

Ontario

Distribution of Canadian Niagara power. Elec W 86:464 S 5 '25

Further notes on O.H.E.P.C. construction. il Can Eng 48:149-52 Ja 20 '25

Hydro commission's Georgian Bay system. il map Can Eng 49:283-8 S 8 '25

Hydro developments near Campbellford. il diag Can Eng 47:465-7 O 28 '24

Hydro-electric development at Island Portage. il diag plan Can Eng 49:429-31 O 6 '25

Hydro-electric power commission of Ontario; 15th annual report. Elec R (Lond) 93:690-1, 819-21 N 9, 30 '23

Hydro-electric power in Ontario. Engineering 116:613 N 16 '23

New and interesting hydro-electric development. il Elec W 83:320 F 16 '24

Ontario hydro extension. Elec W 85:632-3 Mr 21 '25

HYDROELECTRIC plants—Ontario—*Continued*
Power development at Wainwright Falls. J. S. Wilson. il diags map Can Eng 47:595-9 D 16 '24
Queenston-Chippawa development of the hydro-electric power commission of Ontario. F. A. Gaby. diags map plans Engineering 118:220-3, 255-7, pl 19-20, 25 Ag 15-22 '24; Same cond. Can Eng 47:209-15 Ag 5 '24
Spray Lakes development. Can Eng 48:316 Mr 17 '25
See also Ontario—Hydroelectric power commission

Oregon
Oak Grove development of the Portland electric power company. B. H. Snow. il J Elec 53:233-7 O 1 '24
Oak Grove high-head-turbine development of the Portland electric power company. E. C. Hutchinson. il Mech Eng 47:449-54 Je '25
Recent hydro-electric development in southern Oregon and northern California. P. O. Crawford. il diag map Elec J 22:278-80 Je '25
World's record high-head reaction-type hydraulic turbine at the Oak Grove power station. C. P. Dunn. il diags map Power 61:868-72 Je 2 '25

Ottawa, Ontario
New Ontario project to produce 400,000 hp. Elec W 86:133 Jl 18 '25

Pacific coast
Hydroelectric practises and equipment on the Pacific coast. S. Barfoed. diag Am Inst E E J 43:641-6 Jl '24; Discussion. 44:53-5 Ja '25
Regional review of the power resources for the Pacific coast states. A. H. Markwart and H. A. Barre. J Elec 53:127-32 Ag 15 '24
Western hydroelectric power; a story told by the camera. J Elec 54:547-57 Je 15 '25

Palestine
Hydro-electric scheme for Palestine. diag map Engineer 140:301 S 18 '25

Pennsylvania
Clarion river hydro-electric development. C: B. Hawley. Am Water Works Assn J 11: 409-15 Mr '24
Development of water power projects in Pennsylvania. Power 60:628 O 14 '24
Fifteen years' progress in water-power development at Holtwood. il diags map Power 60:522-7 S 30 '24
Piney plant on Clarion river. R. F. Gooding. il diags maps Elec W 85:86, 91-6 Ja 10 '25

Porto Rico
Porto Rico water power. Elec W 83:1150 My 31 '24

Quebec
Building a hydro-electric plant on Saguenay river. il diag maps plan Eng N 93:616-19, 662-5, 702-5 O 16-30 '24
Erection of turbines at Isle Maligne. C: M. Scudder. il Can Eng 49:449-52 O 13 '25
Huge Saguenay river plants. Elec W 84:85 Jl 12 '24
Hydro-electric development in Quebec. Elec R (Lond) 96:676-7 Ap 24 '25
Hydro-electric power developments at Shawinigan Falls, Quebec. il diags plan Power 59:120-4 Ja 22 '24
Hydro plants in Lake St John district. G. B. Snow il diags plans Can Eng 48:535-9 Je 2 '25
Isle Maligne hydroelectric development. J. P. Chapleau. il plan Can Eng 46:487-9 My 6 '24
La Gabelle hydro-electric development. S. Svenningson and J. A. McCrory. il diag Can Eng 49:161-4 Jl 28 '25
Large plate steel spiral turbine casings installed at Isle Maligne, Que. il Can Eng 48:373-6 Ap 7 '25
Power developments on St Maurice river. L. H. Burpee. il plan Can Eng 46:553-6+ My 27 '24
Saguenay river furnishes 540,000 hp. il diag Power Pl Eng 29:966-8 S 15 '25
Saguenay river largest single water-power installation. il Elec W 86:256 Ag 8 '25
Water-power and industry in Quebec. il Elec R (Lond) 95:699-701 N 7 '24

Réunion
Mise en valeur de l'ile de la Réunion; aménagement de ses chutes d'eau. L. Guérin. maps Soc Ing Civils Bul 78:152-80, pl 89 Ja '25

Rhodesia
Hydro-electric plant for Rhodesia; harnessing the great Mulungushi falls. Electrician 93: 581 N 21 '24

Sardinia
Tirso dam and hydroelectric scheme, Sardinia. diags map plan Engineering 118:632-5, pl 65-8 N 7 '24
Tirso hydro-electric scheme. il Elec R (Lond) 94:925-9 Je 6 '24

Seattle, Washington
See Skagit river power project

Sicily
Sicilian hydro-electric installation; the Palermo undertaking. J. S. Barnes. il map Elec R (Lond) 94:219-21 F 8 '24

South Africa
New Witbank power station. il Engineer 138: 347 S 26 '24
Southern Africa's first big hydroelectric scheme. Engineer 137:316 Mr 21 '24

South Carolina
Catawba river development. map Elec W 83: 1234-6 Je 14 '24
Progressive development of the Catawba river. A. C. Lee. Elec W 84:432 Ag 30 '24

Southern states
Electric power—chief stimulant of Southern industry. H. M. Atkinson. Forbes 15:453-5+ Ja 15 '25
Hydro-electric development in the South. T: W. Martin. il maps Manuf Rec 86:241-62 pt 2 D 11 '24
Hydro-electric practice and equipment in the South. Power 59:739 My 6 '24
Hydroelectric practises and equipment of the South. O. G. Thurlow and J. A. Sirnit. diags map Am Inst E E J 43:719-23 Ag '24; Discussion. 44:53-5 Ja '25

Spain
High-voltage power supply in Spain; some notes on the Riegos y Fuerza del Ebro undertaking. il Elec R (Lond) 95:253-5 Ag 15 '24
Hydro-electric power in Spain. Elec R (Lond) 95:990-1 D 26 '24

Sweden
Schwedens wasserkräfte und deren ausnutzung. F. V. Hansen. il diags maps Zeit Ver Deutsch Ing 68:321-7 Ap 5 '24
Das schwedische grosskraftwerk bei Lilla Edet. diags Elektrotech Zeit 46:463-4 Mr 26 '25
Sweden's water power. il map Electrician 93: 39-42 Jl 11 '24
Swedish water power and the farmer. il diag map Elec W 83:993-8 My 17 '24
Water-power plant at Forshuvudforsen, Sweden. diags Engineering 119:6-10, 95-7, 155-8, 217-21, pl 1-3 Ja 2, 23, F 6, 20 '25; Discussion. 119:260, 544, 711 F 27, My 1, Je 5 '25

Switzerland
Die absatzverhältnisse bei den wasserkraftwerken der Schweiz; abstract. Elektrotech Zeit 45:810-11 Jl 24 '24

HYDROELECTRIC plants—Switzerland—*Cont.*
Bursting of the Ritom Lake tunnel. Engineering 117:217 F 15 '24; Same. Eng & Contr (W W) 62:609 S 10 '24
Die druckleitung des kraftwerkes Ritom. diags Zeit Ver Deutsch Ing 68:635-6 Je 14 '24
Eglisau on the Rhine; a plant on an international stream. il Elec W 85:136 Ja 17 '25
L'électrification des Chemins de fer suisses. C. A. Giudici and G. Wunenburger. il diags map plan Génie Civil 86:473-9, 512-15, pl 5 My 16-23 '25
Essais d'étanchéité de la galerne sous pression de l'usine électrique d'Amsteg, des chemins de fer suisses. il diag Génie Civil 84:211-12 Mr 1 '24
Hydro-electric progress in Switzerland; Amsteg (Uri) power station. il diag Elec R (Lond) 97:581-2 O 9 '25
Important power plants of the Swiss federal railroads. il Ry R 76:569-71 Mr 21 '25
Oberhasli hydro-electric project. Engineer 139: 554 My 15 '25
Projet de construction de trois centrales hydro-électriques en Suisse, à Handeck, Boden et Innertkirchen, pour la Société des forces motrices bernoises. map Génie Civil 86:293 Mr 21 '25
Swiss railways utilize water power; some details of plants at Amsteg and Ritom. C: J. Webb. il diag Power Pl Eng 29:438-41 Ap 15 '25
Swiss water-power. Economist 101:489-90 S 26 '25
Les turbines à hélice de l'usine hydro-électrique de Wynau (Suisse). il diags Génie Civil 85:151-4 Ag 16 '24
Les usines hydro-électriques de Rempen et de Siebnen dans le canton de Schwyz (Suisse). A. Bidault des Chaumes. il diags maps Génie Civil 87:241-5 S 19 '25
Die wasserkraftanlage Amsteg der schweizerischen bundesbahnen. R. Hofmann. il diags Zeit Ver Deutsch Ing 68:397-9 Ap 19 '24
Water pumped in summer to develop power in winter; hydroelectric works in the Wäggital. il plan Power 61:693-5 My 5 '25

See also Hydroelectric plants—Chancy-Pougny

Tasmania

Great Lake hydro-electric scheme, Tasmania. il maps Engineering 117:355-7, 451-2, 466, 568-70, 595, 694, 792-3, pl 32, 57, 59-61, 81 Mr 21, Ap 11, My 2-9, 30, Je 20 '24
Tasmanian hydro-electric undertaking; rural electricity supply development. il Elec R (Lond) 96:19-20 Ja 2 '25

Tennessee

Hydro-electric development in Tennessee. M. Smith. Manuf Rec 86:65-6 S 11 '24

Tibet

Electrical plant in Tibet; the Lhasa hydro-electrical installation. il Elec R (Lond) 95: 571-2 O 17 '24

United States

Hydro-electric development shows unprecedented activity. il Power 59:12-16 Ja 1 '24
Hydro-electric stations under construction or going into operation 1925-1926. Elec W 85: 1204 Je 6 '25
One billion for new construction; record steam and hydro-electric development under way during 1924. maps Elec W 85:14-21 Ja 3 '25
Principal hydro-electric developments completed or under construction in 1923; tabulation. Eng N 92:32 Ja 3 '24
Principal hydro-electric developments: 1924. Eng N 94:78 Ja 8 '25
Status of hydro-electric construction. il Elec W 83:27-9 Ja 5 '24
Water-power development affected by many retarding influences. il Power 61:15-18 Ja 6 '25

See also Muscle Shoals project

Utah

Details of the Soda development of the Utah power & light company. L. B. Fuller. il diags map J Elec 54:122-8 F 15 '25

Venezuela

Hydro-electric development in Venezuela. il Elec R (Lond) 95:952-3 D 19 '24
Hydro plants in Venezuela. il Elec W 85:476 F 28 '25

Vermont

Davis Bridge development of the New England power company. il diags map Power 59:776-9 My 13 '24
Davis Bridge development of the New England power company. il Elec W 85:912 My 2 '25
Davis Bridge power plant development of the New England power company. E. B. Collins and H. R. Wilson. il diags map Gen Elec R 27:665-72 O '24
Davis Bridge power project to develop 60,000 hp. A. C. Eaton. diags plans Eng N 92:142-6 Ja 24 '24
New England power company Davis Bridge development. A. C. Eaton. il diags map plans Boston Soc C E J 12:1-33; Discussion. 33-48 Ja '25
L'usine hydro-électrique de Davis Bridge, sur la Deerfield river (États-Unis). P. Caufourier. diags map Génie Civil 85:254-6, 269-72 S 20-27 '24

Wales

Cynwyd, North Wales, hydro-electric station. il Elec R (Lond) 93:685-6 N 9 '23

Washington (state)

Baker river development of the Puget Sound company. diag map plan Elec W 85:977 My 9 '25
Baker river hydroelectric plant. il Eng & Contr (W W) 62:1280-2 D 10 '24
Baker river pressure tunnel nears completion. W. D. Shannon. il diags map J Elec 54:248-9 Ap 1 '25
Hydroelectric power in Washington. C. E: Magnusson. Wash U Eng Exp Sta Bul 26: 1-52 '24
Initial development on Baker river to be 40,000 hp. il map Power Pl Eng 28:1076-7 O 15 '24
Walla Walla Mill Creek plant that was built in 1892. G. H. Robinson. J Elec 53:428-9 D 15 '24
Washington water power co. acquires Nine-Mile plant. il J Elec 55:145 Ag 15 '25

See also Skagit river power project

Western states

Power company construction programs set new records for 1924-25. J Elec 54:80-7 F 1 '25
Revised map of Western hydroelectric systems showing transmission lines, power plants and some major undeveloped power sites as of February 1, 1925. J Elec 54:supp F 1 '25
Some additions to hydroelectric generating plants in the eleven western states, 1924-1925. J Elec 54:88-9 F 1 '25
Survey shows 1924 will be record year for hydroelectric development. J Elec 52:97-9 F 1 '24
Water powers of the Great Salt Lake basin. R. R. Woolley. plan U S Geol S Water-Supply Pa 517:64-108, pl 10-13 '24
Wonderland of America; N.E.L.A. pictorial insert. Elec W 85:1179-98 Je 6 '25

Wisconsin

Completing the Jim Falls hydro-electric development. A. J. Hammond. il diag Eng N 92:270-2 F 14 '24

HYDROELECTRIC power

Development of hydro-electric power in relation to the national economy of the United States. O. D. Foster. Econ W n s 28:544-7 O 18 '24

HYDROELECTRIC power—*Continued*
Electrochemical and electrothermal industries in the development of hydro-electric power. F. A. J. FitzGerald. Chem & Met Eng 31: 195 Ag 4 '24
Forty-two years of hydro-electric engineering. H. L. Cooper. il diags Elec W 84:612-15 S 20 '24
Fundamental problems of hydroelectric development. J: R. Freeman. Mech Eng 46:1-10 Ja '24; Same cond. Can Eng 46:432-4, 458-61 Ap 15-22 '24; Abstracts. Am Inst E E J 43:74-6 Ja '24; Power 58:941-3 D 11 '23
Geological survey report on developed and potential power. J Elec 52:372-3 My 15 '24
Hydro report on St Lawrence river. Can Eng 49:339-40 S 22 '25
Hydroelectric generation. R. H. L. Lee. Cassier's Ind Management 11:112 F 21 '24
Hydro-electric power; an achievement of the past half-century. J. D. Galloway. il Eng N 92:687-90 Ap 17 '24
Hydro-electric power as a by-product of agricultural storage. E. N. Bryan. Am Soc C E Pro 51:80-92 Ja '25; Abstract. Elec R (Lond) 96:195-6 Ja 30 '25; Discussion. Am Soc C E Pro 51:909-10 My '25
Hydro-electric power for Buenos Aires. map Engineer 137:233 F 29 '24
No Northeast hydro growth after 1930. Elec W 83:688 Ap 5 '24
Power possibilities at Muscle Shoals, Alabama. S: S. Wyer. maps Am Inst E E J 44:571-8 Je '25
Problem of the Colorado river. W: F. Durand. map Mech Eng 47:83-4 F '25
Proposed Bridge River hydro development. Can Eng 49:454 O 13 '25
Some statements corrected. C: H. Leicester. Paper Tr J 80:45-6 Ja 15 '25
Utilization of water power for electric railway operation; report of A.R.E.A. subcommittee. Ry R 76:624-6 Mr 28 '25
Water-power development. Elec W 83:1047-8 My 24 '24
Water power discussed at A.I.E.E. spring convention. Power 59:659-60 Ap 22 '24
Water power economy overestimated. L: H. Egan. Power Pl Eng 28:322 Mr 15 '24
See also Hydroelectric plants; Niagara falls; Power cost; Tide power; Water power

HYDROELECTRIC power commission of Ontario. See Ontario, Canada—Hydroelectric power commission

HYDROFERRICYANIDES
Hydroferrocyanides and hydroferricyanides of the alkaloids. W: M. Cumming and D. G. Brown. il Soc Chem Ind J 44:110-15 Mr 6 '25
Hydroferrocyanides and hydroferricyanides of the organic bases. W: M. Cumming. diags Chem Soc J 121:1287-98; 123:2457-64; 125: 1106-8, 2541-2 Jl '22, O '23, My, D '24

HYDROFERROCYANIDES
Hydroferrocyanides and hydroferricyanides of the alkaloids. W: M. Cumming and D. G. Brown. il Soc Chem Ind J 44:110-15 Mr 6 '25
Hydroferrocyanides and hydroferricyanides of the organic bases. W: M. Cumming. diags Chem Soc J 121:1287-98; 123:2457-64; 125: 1106-8, 2541-2 Jl '22, O '23, My, D '24

HYDROFLUORIC acid
Activity of hydrogen-ion in aqueous solutions of hydrogen fluoride. W: F. K. Wynne-Jones and L. J: Hudleston. diag Chem Soc J 125:1031-5 My '24
Density and molecular complexity of gaseous hydrogen fluoride. J. Simons and J. H. Hildebrand. diag Am Chem Soc J 46:2183-91 O '24
Freezing points of hydrofluoric acid. J: D: C. Anthony and L. J: Hudleston. Chem Soc J 127:1122-8 My '25
Hydrofluoric acid for removing enamel. Chem & Met Eng 31:885 D 8 '24
Hydrofluoric acid fumes; abstracts. C. M. Salls. Chem Age 32:376 S '24; Monthly Labor R 19:901 O '24
Preparation, freezing point and vapor pressure of hydrogen fluoride. J. Simons. diags Am Chem Soc J 46:2179-83 O '24
Solubility of sodium fluoride in hydrofluoric acid. D: B. Jehu and L. J: Hudleston. Chem Soc J 125:1451-6 Jl '24
Transference numbers and ionic complexity of hydrofluoric acid solutions. C. W. Davies and L. J: Hudleston. Chem Soc J 125:260-8 Ja '24

HYDROFORMAMINE cyanide
Isomeric modifications of methylene aminoacetonitrile and their biochemical significance. T. B. Johnson and H. W. Rinehart. il diags Am Chem Soc J 46:768-74 Mr '24
Study of the chemical behavior of alpha- and beta-hydroformamine cyanides. H. W. Rinehart and T. B. Johnson. Am Chem Soc J 46:1653-61 Jl '24

HYDROGEN
Absence of helium from the gases left after the passage of electrical discharges; between fine wires in a vacuum; through hydrogen; through mercury vapor. S. K. Allison and W: D. Harkins. diags Am Chem Soc J 46:814-24 Ap '24
Absorption and emission spectra of the Geissler discharge in mercury vapor and in mixtures of mercury and hydrogen. L: A. Turner and K. T. Compton. Phys R 25:606-12 My '25
Activation of hydrogen in organic compounds. E. H. Usherwood. Soc Chem Ind J (Chem & Ind) 42:1246-51 D 28 '23
Atomic hydrogen. Engineer 140:sup159-60 O 30 '25
Behaviour of hydrogen in the discharge due to alternating electric fields of high frequency. R. W. Lunt. Philos Mag 6th ser 49:1238-49 Je '25
Catalytic combination of ethylene and hydrogen in the presence of metallic copper; carbon monoxide as a catalyst poison. R. N. Pease and L. Stewart. Am Chem Soc J 47: 1235-40 My '25
Coefficients of slip and momentum transfer in hydrogen, helium, air and oxygen. E: Blankenstein. diag Phys R 22:582-9 D '23
Conditions of reaction of hydrogen with sulphur; photochemical union. R. G: W. Norrish and E. K. Rideal. diags Chem Soc J 125:2070-81 O '24
Critical electron energies in hydrogen. F. Horton and A. C. Davies. diags Philos Mag 6th ser 46:872-96 N '23
Critical potentials of hydrogen in the presence of nickel catalyst. A. W. Gauger. diag Am Chem Soc J 46:674-80 Mr '24
Determination of hydrogen produced in a General Electric, electric steam generator. C. Dantsizen and E. H. Horstkotte. il Paper Tr J 79:43-4 D 11 '24; Same. Elec W 84: 1156-7 N 29 '24
Determination of the dielectric constants of five gases by a high frequency method. E. C. Fritts. il diags Phys R 23:345-56 Mr '24
Diffusion of hydrogen through metals. H. G. Deming and B. C. Hendricks. Am Chem Soc J 45:2857-64 D '23
Dissociation of hydrogen and nitrogen by excited mercury atoms. O. S. Duffendack and K. T. Compton. Phys R 23:583-92 My '24
Effect of a magnetic field on the potential of hydrogen occluded in iron. T. W. Richards and W: T. Richards. diag Am Chem Soc J 46:89-104 Ja '24
Effect of hydrogen pressure on the electromotive force of a hydrogen-calomel cell. W. R. Hainsworth, H. J. Rowley and D. A. MacInnes. diag Am Chem Soc J 46:1437-43 Je '24
Effect of ultra-violet light on dried hydrogen and oxygen. H. B. Baker and M. Carlton. Chem Soc J 127:1990-2 S '25

HYDROGEN—*Continued*
Effect of water and of carbon dioxide on the catalytic oxidation of carbon monoxide and hydrogen by oxygen. A. B. Lamb and W. E. Vail. diags Am Chem Soc J 47:123-42 Ja '25
Electrical properties of neon, hydrogen, and nitrogen. S. P. McCallum and C. M. Focken. Philos Mag 6th ser 49:1309-20 Je '25
Equation of state of argon, neon and hydrogen; report on the work done in Leiden cryogenic laboratory. E. Mathias and C. A. Crommelin. Refrig Eng 12:87-91 [bibliog. p. 91] S '25
Experimental studies on the hydrogen electrode. H. T. Beans and L. P. Hammett. diag Am Chem Soc J 47:1215-26 My '25
Formation of active hydrogen in the creepage corona discharge. F. O. Anderegg and W. N. Herr. Am Chem Soc J 47:2429-31 O '25
Heats of oxidation of carbon monoxide and of hydrogen by manganese dioxide at 0° C. J. C. W. Frazer and C. E. Greider. diag J Phys Chem 29:1099-1104 S '25
Hydrogen as a cooling medium for electrical machinery. E. Knowlton, C. W. Rice and E. H. Freiburghouse. il diags Am Inst E E J 44:724-34 Jl '25; Excerpts. Power 62: 779-80 N 17 '25
Hydrogen in zinc cathodes. O. C. Ralston. il Am Electrochem Soc Trans v 47 (preprint 5):53-8 Ap '25
Instability of phthalate solutions toward the hydrogen electrode. C. Z. Draves and H. V. Tartar. Am Chem Soc J 47:1226-30 My '25
Interaction of carbon dioxide and hydrogen on the surface of tungsten. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 127: 1546-52 Jl '25
Interaction of hydrogen and carbon dioxide on the surface of platinum. C: R. Prichard and C. N. Hinshelwood. diag Chem Soc J 127:806-11 Ap '25
Ionization of hydrogen by electron impact as interpreted by positive ray analysis. T. R. Hogness and E. G. Lunn. bibliog diags Phys R 26:44-55 Jl '25
Iron-iron carbide equilibrium in dry hydrogen at 950° C. E. D. Campbell, W: L. Fink and J: F. Ross. Iron & Steel Inst J 108:173-8 no 2 '23
Low temperature activation of hydrogen. A. E. Mitchell and A. L. Marshall. diags Chem Soc J 123:2448-57 O '23
Low-voltage glows in hydrogen. G. Stead and B. Trevelyan. diags Philos Mag 6th ser 48: 978-1006 N '24
Magnetic susceptibility of oxygen, hydrogen and helium. A. P. Wills and L. G. Hector. diags Phys R 23:209-20 F '24
Mechanism of the photochemical reaction between hydrogen and chlorine. A. L. Marshall. diag J Phys Chem 29:842-52, 1453-61 Jl, N '25
Mobility of argon and hydrogen ions in air. H: A. Erikson. diags Phys R 26:465-8 O '25
Observations on the Stark effect in hydrogen and helium. J. S. Foster. diags Phys R 23: 667-84 Je '24
Photochemical studies; the reaction between nitrogen and hydrogen in the presence of mercury vapor, and the resonance radiation of mercury. W. A. Noyes, jr. Am Chem Soc J 47:1003-9 Ap '25
Photosensitive formation of water from its elements in the presence of chlorine. R. G: W. Norrish and E. K. Rideal. diag Chem Soc J 127:787-97 Ap '25
Pickling; or, the action of acid solutions on mild steel and the diffusion of hydrogen through the metal. C. A. Edwards. bibliog diags Iron & Steel Inst J 110:9-44, pl 1-3a no 2 '24; Same abr. Blast F & Steel Pl 13: 79-83 F '25; Discussion. Iron & Steel Inst J 110:45-60 no 2 '24; Engineering 118:365-6 S 12 '24
Primary and secondary products of ionization in hydrogen. H. D. Smyth. diags Phys R 25:452-68 Ap '25
Promoting action of palladium on copper; the adsorption of hydrogen and carbon monoxide. W: W. Hurst and E. K. Rideal. diag Chem Soc J 125:694-705 Mr '24
Quantitative investigation of the photochemical interaction of chlorine and hydrogen. M. C. C. Chapman. diag Chem Soc J 123:3062-81 D '23
Radiation potentials of atomic hydrogen. P. S. Olmstead and K. T. Compton. diag Phys R 22:559-65 D '23
Reactions of hydrogen activated by excited mercury atoms. H. S. Taylor and A. L. Marshall. J Phys Chem 29:1140-7 S '25
Reducing action of hydrogen adsorbed in silica gel. M. Latshaw and L. H. Reyerson. Am Chem Soc J 47:610-12 Mr '25
Reduction of nickelous and ferric oxides by hydrogen. A. F. Benton and P. H. Emmett. Am Chem Soc J 46:2728-37 D '24
Relation between the hydrogen content of certain charcoals and some other properties. H. H. Lowry. diags Am Chem Soc J 46:824-46 Ap '24
Relative efficiency of dry and of moist hydrogen on the decarburisation of steel at 950° C., and the effect of hydrogen on the phosphorus content. E. D. Campbell, J: F. Ross and W. L. Fink. Iron & Steel Inst J 108:179-85; Discussion. 186-8 no 2 '23
Relative probabilities of the transitions involved in the Balmer series lines of hydrogen. F. C. Hoyt. Philos Mag 6th ser 47: 826-31 My '24
Roasting ores in hydrogen. H. Conder. Eng & Min J 116:943 D 1 '23
Rotational specific heat and half quantum numbers. R: C. Tolman. Phys R 22:470-8 N '23
Scattering of X-rays by hydrogen. G. A. Schott. Phys R 23:119-27 F '24
Solubility of a mixture of hydrogen and nitrogen in liquid ammonia. A. T. Larson and C: A. Black. diags Ind & Eng Chem 17:715-16 Jl '25
Solubility of helium and hydrogen in heated silica glass and the relation of this to the permeability. G. A. Williams and J. B. Ferguson. Am Chem Soc J 46:635-9 Mr '24
Some remarks on the Fulcher hydrogen bands. G. H. Dieke. Philos Mag 6th ser 50: 173-9 Jl '25
Spectroscopy and its relation to chemistry. H. Dingle. Soc Chem Ind J (Chem & Ind) 44:602-3 Je 12 '25
Tinkering with the universe. Sci Am 132: 338 My '25
Universal distance of the order of 10^{-8} cm. between the centres of nearest atoms. A. C. Crehore. diags Philos Mag 6th ser 49:839-88 My '25
Use of hydrogen gas in the dyeing of vat colors. F. F. Warshaw. Am Dyestuff Rep 13:163-4; Discussion. 164-5 Mr 10 '24
Velocity of the hydrogen electrode reaction on platinum catalysts. L: P. Hammett. Am Chem Soc J 46:7-19 Ja '24
Windage losses in air, hydrogen, and carbon dioxide. C. W. Rice. il diag Gen Elec R 28:336-41 My '25

See also Hydrogenation

Manufacture

Electrolytic hydrogen plant for France. Elec W 86:800 O 17 '25
Der elektrolytische wasserstofferzeuger bauart Holmboe. M. Hanssen. il diag Elektrotech Zeit 45:462-3 My 8 '24; Same (Holmboe electrolytic hydrogen generator). Soc Chem Ind J (Chem & Ind) 43:458-9 My 2 '24
Hydrogen and by-product oxygen in relation to nitrogen fixation and fertilizers. W: G. Allan. il Am Electrochem Soc Trans v 48 (preprint 20):183-207 S '25
Hydrogen for synthetic ammonia production; electrolytic plant for Italian works. il Chem Age (Lond) 12:244-5 Mr 14 '25

HYDROGEN—Manufacture—*Continued*
Knowles electrolytic plant at the Bussi works of the Società Italiana di elettrochimica. il Soc Chem Ind J (Chem & Ind) 44:131-2 F 6 '25
Neue bipolarzellen für wasserelektrolyse, ihre konstruktion und ihre charakteristik. F. Petz. il diags Elektrotech Zeit 46:43-5 Ja 8 '25
New hydrogen cell; the Knowles patent column plant. il Chem Age (Lond) 11:11 Jl 5 '24
Production of nitrogen and hydrogen for synthetic ammonia manufacture. H. S. Taylor. flow sheet diags Am Inst Chem Eng Trans v 14:45-56; Discussion. 56-7 '21-'22

HYDROGEN, Liquid
Hydrogen liquefying cycle and cryostat for the maintenance of low temperatures. W. M. Latimer, R. M. Buffington and H. D. Hoenshel. diag Am Chem Soc J 47:1571-6 1694-7 Je '25
Production of pure hydrogen for liquefaction. C. W. Kanolt and J. W. Cook. diag Ind & Eng Chem 17:183-6 F '25

HYDROGEN bromide. See Hydrobromic acid

HYDROGEN chloride. See Hydrochloric acid

HYDROGEN cyanide. See Hydrocyanic acid

HYDROGEN fluoride. See Hydrofluoric acid

HYDROGEN halides
Electric moment of gaseous molecules of halogen hydrides. C. T. Zahn. diags Phys R 24: 400-17 O '24
Halogen hydrides. H. Bell. diag Philos Mag 6th ser 47:549-60 Mr '24
Photochemistry of the halogen hydrides. E. J: Bowen. Chem Soc J 125:1233-9 Je '24
Properties of pure hydrogen peroxide; action of the halogens and halogen hydrides. O. Maass and P. G. Hiebert. diag Am Chem Soc J 46:290-308 F '24

HYDROGEN iodide. See Hydriodic acid

HYDROGEN ion
Activity of hydrogen-ion in aqueous solutions of hydrogen fluoride. W: F. K. Wynne-Jones and L. J: Hudleston. diag Chem Soc J 125:1031-5 My '24

HYDROGEN ion concentration
Absorption spectrum of gelatin as a function of the hydrogen-ion concentration. H: P. Higley and J. H. Mathews. Am Chem Soc J 46:852-5 Ap '24
Activity coefficient and ionic concentration product of water in sodium and potassium chloride solutions. H. S. Harned. Am Chem Soc J 47:930-40 Ap '25
Adjustment of pH of culture media under sterile conditions. L. M. Christensen and E. I. Fulmer. diags Ind & Eng Chem 17: 935 S '25
Apparent concentration of the hydrogen-ion in solutions containing sucrose. T: W. J. Taylor and R. F. Bomford. Chem Soc J 125:2016-17 O '24
Application of hydrogen ion determination to textile work. W. M. Scott. Am Dyestuff Rep 14:145-51 Mr 9 '25
Dependence of polarisation-overvoltage on hydroxyl- and hydrogen-ion concentration; polarisation-overvoltage of an antimony cathode in aqueous alkaline solution. H: J. S. Sand and E: J. Weeks. Chem Soc J 125: 160-8 Ja '24
La détermination des ions hydrogène d'une solution. A. Travers. diags Chimie & Ind 12: 212-32 Ag '24
Determination of hydrogen-ion concentration by a spectrophotometric method and the absorption spectra of certain indicators. W. R. Brode. diags Am Chem Soc J 46:581-96 Mr '24
Determination of hydrogen ion concentration in connection with fresh-water biological studies. V: E. Shelford. 395p Illinois Dept. of registration and education, Urbana '23
Distribution of hydrogen ions between gelatine and water. I. I. Shukoff and S. A. Stschoukareff. J Phys Chem 29:285-94 Mr '25
Effect of hydrogen-ion concentration on compound formation and adsorption of dyes by mordants. R. E. Marker and N. E. Gordon. Ind & Eng Chem 16:1186-8 N '24
Effect of hydrogen-ion concentration on the estimation of diastatic power by the polarimetric method. H. C. Gore. Am Chem Soc J 47:281-3 Ja '25
Effect of hydrogen-ion concentration on the submerged corrosion of steel. G. W. Whitman, R. P. Russell, and V. J. Altieri. Ind & Eng Chem 16:665-70 Jl '24
Effect of sodium chloride on hydrogen-ion concentration and stability towards alkali of chromic chlorides. K. H. Gustavson. Ind & Eng Chem 17:945-52 S '25
Effect of the concentration of colloidal clay upon its hydrogen ion concentration. R: Bradfield. J Phys Chem 28:170-5 F '24
Elasticity of gelatin in relation to pH and swelling. G. W. Scarth. bibliog J Phys Chem 29:1009-22 Ag '25
Electrode vessel for liquids heavier and lighter than the liquid junction potential eliminator. L: E. Dawson. diag Am Chem Soc J 47:2172-3 Ag '25
Electrometric studies of the precipitation of hydroxides. H. T: S. Britton. Chem Soc J 127:2110-59 S '25
Electrometric study of the titration of boric acid. M. G. Mellon and V. N. Morris. Ind & Eng Chem 16:123-6 F '24
Equilibrium between creatine and creatinine, in aqueous solution; the effect of hydrogen ion. G. Edgar and H. E. Shiver. Am Chem Soc J 47:1179-88 Ap '25
Fixation of atmospheric nitrogen by yeast as a function of the hydrogen ion concentration. E. I. Fulmer and L. M. Christensen. J Phys Chem 29:1415-18 N '25
Harnessing the hydrogen ion. P. Klopsteg. Can Chem & Met 8:147 Je '24
Hydrogen electrode vessels for use with tannery liquors. J. A. Wilson and E. J. Kern. Ind & Eng Chem 17:74 Ja '25
Hydrogen ion concentration and peptones used in bacteriology. E. M. Chamot and F. R. Georgia. bibliog Am Water Works Assn J 13:661-74 Je '25
Hydrogen ion concentration and pH. L. H. Enslow. Pub Works 56:361-6 O '25
Hydrogen-ion concentration and soluble aluminium in filter plant effluents. W: D. Hatfield. Am Water Works Assn J 11:554-63 My '24
Hydrogen ion concentration and water purification at Cedar Rapids, Iowa. F. C. Mortensen. bibliog Am Water Works Assn J 13:33-8 Ja '25
Hydrogen-ion concentration in relation to animal and plant growth. H: Leffmann. il J Fr Inst 197:741-56 Je '24
Hydrogen ion concentration in the paper mill. M. B. Shaw. il Paper Tr J 81:59-62 S 3 '25
Hydrogen ion concentration of lime treated water and its effect on bacteria of the colon-typhoid group. R. D. Scott and G. M. McClure. Am Water Works Assn J 11:598-604 My '24
Hydrogen ion control in water purification. Eng & Contr (W W) 61:113-14 Ja 9 '24
Hydrogen ion measurements in the electrometallurgy of nickel. W: A. Mudge. bibliog il Am Electrochem Soc Trans v 47 (preprint 16):181-201 Ap '25
Hydrolysis of skin and hair. H: B. Merrill. Ind & Eng Chem 16:1144-6 N '24
Improved, continuous-reading hydrogen-ion meter. K. H. Goode. il diags Am Chem Soc J 47:2483-8 O '25
Influence of hydrogen concentration on the auto-oxidation of hydroquinone; a note on the stability of the quinhydrone electrode. V: K. La Mer and E. K. Rideal. Am Chem Soc J 46:223-31 Ja '24
Influence of hydrogen-ion concentration on the optical rotation of gelatin. R. H. Bogue and M. T. O'Connell. Am Chem Soc J 47: 1694-7 Je '25

HYDROGEN ion concentration—*Continued*
Influence of hydrogen-ion concentration on the protective action of gelatin on Zsigmondy's standard gold sol. H. V. Tartar and J. R. Lorah. J Phys Chem 29:792-8 Jl '25

Influence of the pH upon the ultraviolet absorption spectra of certain cyclic compounds. W. Stenström and M. Reinhard. J Phys Chem 29:1477-81 N '25

Irreversible reduction of organic compounds; the relation between apparent reduction potential and hydrogen-ion concentration. J. B. Conant and R. E. Lutz. Am Chem Soc J 46:1254-66 My '24

Limited significance of hydrogen ion concentration as a factor in determining the condition of lyophilic sols. H. R. Kruyt and H. C. Tendeloo. J Phys Chem 29:1303-11 O '25

Meaning of hydrogen ion concentration and its application to the paper industry. W. A. Taylor. il Paper Tr J 81:103-5 O 29 '25

New calomel half cells for industrial hydrogen-ion measurements. H: C. Parker and C. A. Dannerth. diags Ind & Eng Chem 17: 637-9 Je '25

Optimum hydrogen ion concentrations for coagulation of various waters. G. F. Catlett. Am Water Works Assn J 11:887-95 Jl '24

Potentiometric hydrogen-ion measurements with non-gas electrodes. H: C. Parker. il Ind & Eng Chem 17:737-40 Jl '25

Proteolytic action of bacillus granulobacter pectinovorum and its effect on the hydrogen-ion concentration. W. H. Peterson, E. B. Fred and B. P. Domogalla. Am Chem Soc J 46:2086-90 S '24

Relation of hydrogen ion concentration to the corrosion of iron. J. W. Shipley and I. R. McHaffie. il diags Can Chem & Met 8:121-4 My '24

Salt error of cresol red. W: R. Ramage and R. C. Miller. Am Chem Soc J 47:1230-5 My '25

Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; bromocresol green. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:226-9 Ja '25

Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; the methods. W. C. Holmes. Am Chem Soc J 46:627-31 Mr '24

Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; 1-naphthol-2-sodium sulfonate indophenol. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:2232-8 Ag '25

Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; thymol blue. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:221-6 Ja '25

Technic for measuring the hydrogen ion concentration of distilled water and unbuffered solutions not in equilibrium with carbon dioxide of the air. L: E. Dawson. J Phys Chem 29:551-6 My '25

Tables

PH-tabellen. A. H. Ylppo. 2d ed., rev. 75p J. Springer, Berlin '22

HYDROGEN oxides
Interaction of potassium tetroxide with ice and with dilute sulphuric acid. H. Hawley and H: J. S. Sand. diag Chem Soc J 123: 2891-6 N '23

See also Water

HYDROGEN peroxide
Action of hydrogen peroxide on limonene. J. Sword. Chem Soc J 127:1632-3 Jl '25

Catalytic decomposition of hydrogen peroxide in an acid chlorine-chloride solution. R. S. Livingston and W: C. Bray. Am Chem Soc J 47:2069-82 Ag '25

Decomposition of hydrogen peroxide by cobaltic hydroxide. F: G. Tryhorn and G. Jessop. Chem Soc J 127:1320-30 Je '25; Discussion. Soc Chem Ind J (Chem & Ind) 44: 379-80 Ap 10 '25

Determination of vanadium by reduction with hydrogen peroxide and titration with potassium permanganate. A. W. Hothersall. Soc Chem Ind J 43:270-2 Ag 8 '24

Evolution of hydrogen peroxide by oils on exposure to light. G. F. A. Stutz, H. A. Nelson and F. C. Schmutz. il Ind & Eng Chem 17:1138-41 N '25

Hydrogen peroxide as a bleaching agent for gelatin. I. E. Weber. Soc Chem Ind J (Chem & Ind) 43:283 Mr 14 '24

Influence of colloids on the rate of reactions involving gases; decomposition of hydrogen peroxide and of nitrosotriacetonamine. A. Findlay and W: Thomas. Chem Soc J 125: 1244-52 Je '24

Inhibition of the photochemical decomposition of hydrogen peroxide solutions. W: T. Anderson. 23p Princeton univ., Princeton N.J. '23

Manufacture of hydrogen peroxide by distillation of persulphuric acid; abstract. Soc Dyers & Col J 41:285 Ag '25

Mechanism of the oxidation of typical carbohydrates with hydrogen peroxide and hypochlorous acid. J. Craik. Soc Chem Ind J 43: 171-7 Je 6 '24

Periodic catalytic decomposition of hydrogen peroxide. E. S. Hedges and J. E. Myers. Chem Soc J 125:1282-7 Je '24

Peroxide bleaching. T: D. Ainslee. Am Dyestuff Rep 13:868-71 D 29 '24

Promoter action in homogeneous catalysis; mechanism of the promotion by copper salts in the catalytic decomposition of hydrogen peroxide by ferric salts. A. C. Robertson. Am Chem Soc J 47:1299-1314 My '25

Properties of pure hydrogen peroxide; action of the halogens and halogen hydrides. O. Maass and P. G. Hiebert. diag Am Chem Soc J 46:290-308 F '24

Properties of pure hydrogen peroxide; vapor pressure. O. Maass and P. G. Hiebert. diag Am Chem Soc J 46:2693-2700 D '24

Sorption of iodine and catalytic decomposition of hydrogen peroxide solution, by Norit charcoals. J. B. Firth and F. S. Watson. bibliog J Phys Chem 29:987-94 Ag '25

Studies in photographic sensitivity. E. P. Wightman, A. P. H. Trivelli and S. E. Sheppard. il J Fr Inst 200:335-48 S '25

Two heterogenous gas reactions. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 123:2725-9 N '23

HYDROGEN phosphide
Spectroscopic study of the combustion of phosphorus trioxide and of hydrogen phosphide. H. J. Emeléus. diags Chem Soc J 127:1362-8 Je '25

HYDROGEN selenide
Solubility of hydrogen selenide. A. J. McAmis and W. A. Felsing. diag Am Chem Soc J 47:2633-7 N '25

HYDROGEN sulfide
Absorption of hydrogen sulfide. F. W. Sperr, jr. il Ind & Eng Chem 16:1237-9 D '24

Action of hydrogen sulphide on lithium ethoxide; lithium hydrosulphide. J: H: Jones and J: S. Thomas. diag Chem Soc J 123:3285-94 D '23

Condensation of acetylene and hydrogen sulphide in presence of catalysts. M. G. Tomkinson. Chem Soc J 125:2264-6 N '24

Conditions affecting the activity of iron oxides in removing hydrogen sulphide from city gas. W. A. Dunkley and R. D. Leitch. diags U S Bur Mines Tech Pa 332:1-33 '24; Same cond. Gas J (Lond) 171:443-7 Ag 19 '25

Conductance in liquid hydrogen sulfide solutions. G. N. Quam and J. A. Wilkinson. Am Chem Soc J 47:989-94 Ap '25

Convenient method for the generation of hydrogen sulphide gas. A. Henwood and others. diag J Fr Inst 199:685-6 My '25

HYDROGEN sulfide—*Continued*
Effect of drops of H_2S solution on copper. U. R. Evans. Brass W 21:56 F '25
Explosibility of hydrogen sulfide in air. G. W. Jones, W. P. Yant and L. B. Berger. diag Ind & Eng Chem 16:353-5 Ap '24
Influence of water on certain chemical reactions; the reaction between hydrogen sulfide and iodine in ether solution. L. B. Parsons. diag Am Chem Soc J 47:1820-30 Jl '25
Investigation of toxic gases from Mexican and other high-sulphur petroleums and products. R. R. Sayers and others. il diags U S Bur Mines Bul 231:1-108, pl 1-17 '25
Liquid hydrogen sulfide as a source of laboratory supply of the gas. C: J. Moore. Ind & Eng Chem 17:1023 O '25
Mechanism of the precipitation of metals by hydrogen sulfide; a study of certain sulfur complexes of mercury. G. M. Smith and W. L. Semon. Am Chem Soc J 46:1325-43 Je '24
Method for the estimation of hydrogen sulfide in proteinaceous food products. L. H. Almy. diag Am Chem Soc J 47:1381-90 My '25
Oxidizing hydrogen sulphide. Chem & Met Eng 31:631 O 20 '24
Paints resistant to sulfide fumes. P. H. Walker and E. F. Hickson. Ind & Eng Chem 16:1142-3 N '24
Present practice in the prevention of industrial poisoning. Nat Safety N 12:45 Ag '25
Relation between tarnishing and corrosion. U. R. Evans. il Am Electrochem Soc Trans v 46 (preprint 6):75-100 O '24
Special corrosion problems in oil refining. R. E. Wilson and W. H. Bahlke. Ind & Eng Chem 17:358 Ap '25; Same. Nat Pet N 17:55-6 Jl 1 '25
Study of reactions in liquid hydrogen sulfide. G. N. Quam. diag Am Chem Soc J 47:103-8 Ja '25
Toxicology of hydrogen sulphide. H. W. Haggard. bibliog J Ind Hygiene 7:113-21 Mr '25

HYDROGEN sulfites
Direct combination of ethylenic hydrocarbons with hydrogen sulphites. I. Kolker and A. Lapworth. Chem Soc J 127:307-15 F '25

HYDROGEN trinitride. See Hydrazoic acid

HYDROGENATION
Attempts to prepare 1-methyl-2-methoxypiperidine; the hydrogenation of certain pyridine derivatives. T. B. Grave. Am Chem Soc J 46:1460-70 Je '24
Berginisation of coal and oil. A. W. Nash. diags Inst Pet Tech J 10:329-34 Je '24
Berginisation of Emma-coal. H. I. Waterman and J. N. J. Perquin. bibliog Inst Pet Tech J 11:374-8 Ag '25
Catalysis at solid surfaces. E. F. Armstrong and T. P. Hilditch. Soc Chem Ind J (Chem & Ind) 44:701-9 Jl 10 '25
Catalytic hydrogenation of certain oils. L: Kahlenberg and Tsu Pei Pi. J Phys Chem 28:59-70 Ja '24
Catalytic hydrogenation under pressure in the presence of nickel salts; aldehydes. J. von Braun and G. Kochendörfer. Chem Soc J 125 pt 1:1197-9 D '23
Catalytic hydrogenation under pressure in the presence of nickel salts; nitriles. J. von Braun, G. Blessing and F. Zobel. Chem Soc J 124 pt 1:1087-9 N '23
Decomposition of paraffin wax at 450° C. in the presence and in the absence of hydrogen under high pressure. H. I. Waterman and J. N. J. Perquin. Chem Age (Lond) 12:154-5 F 14 '25
Heterogeneous catalysis. A. S. Richardson, C. A. Knuth and C. H. Milligan. Ind & Eng Chem 17:80-3 Ja '25
Hydrogenation and liquefaction of coal. Gas J (Lond) 170:242 Ap 22 '25
Hydrogenation by the Bergius method. H. I. Waterman and J. N. J. Perquin. diags Inst Pet Tech J 10:670-7 S '24
Hydrogenation by the Bergius process. H. G. Shatwell. Soc Chem Ind J (Chem & Ind) 44: 471-7 My 8 '25
L'hydrogénation catalytique des composés organiques à l'état liquide. E. F. Armstrong and T. P. Hilditch. Chimie & Ind 12:207-11 Ag '24
Hydrogenation in the naphthalene series; the properties of derived azo dyes. F. M. Rowe and V. J. Tarbett. Soc Dyers & Col J 41:5-8; Discussion. 8-10 Ja '25
Hydrogenation in the petroleum industry. H. I. Waterman and J. N. J. Perquin. il Inst Pet Tech J 11:36-50; Discussion. 51-60 F '25
Hydrogenation of a gas oil. H. G. Shatwell. il Inst Pet Tech J 10:903-11 D '24
Hydrogenation of benzene in the presence of metallic copper. R. N. Pease and R. B. Purdum. diag Am Chem Soc J 47:1435-42 My '25
Hydrogenation of coal. Chemicals 24:9 S 21 '25
Hydrogenation of coal. H. G. Shatwell. bibliog Inst Pet Tech J 11:369-74 Ag '25
Hydrogenation of ethylene in the presence of metallic calcium. R. N. Pease and L. Stewart. Am Chem Soc J 47:2763-6 N '25
Hydrogenation of vegetable and marine oils by a continuous process. R. A. Bellwood. Chem Age (Lond) 12:222-4 Mr 7 '25
Irreversible reduction and catalytic hydrogenation. J. B. Conant and H. B. Cutter. J Phys Chem 28:1096-1107 O '24
Kinetics of hydrogenation. E. J. Lush. diags Soc Chem Ind J 43:53-6; 44:129-34 Mr 14 '24, Mr 27 '25; Abstract. Chem Age (Lond) 12: 130 F 7 '25
Manufacture, use, and economic significance of some hydrogenation products. H. Tefft. Can Chem & Met 9:152 Jl '25
Motor fuel from coal now interests Germany. Oil Paint & Drug Rep 108:21 Ag 17 '25
Platinum oxide as a catalyst in the reduction of organic compounds; the preparation of primary alcohols by the catalytic hydrogenation of aldehydes. W. H. Carothers and R. Adams. Am Chem Soc J 46:1675-83 Jl '24
Pressure and the elucidation of the chemical constitution of coal. R. Quarendon. bibliog Soc Chem Ind J (Chem & Ind) 44:676-9 Jl 3 '25
Le procédé Bergius. A. Kling. diags Chimie & Ind 11:1067-77 Je '24
Procédés de production des huiles légères pour les moteurs à combustion interne. M. Brutzkus. diags Chimie & Ind 14:171-85 Ag '25
Relative rates of catalytic hydrogenation of different types of unsaturated compounds; aliphatic ethylenic derivatives. S. V. Lebedev, G. G. Kobliansky and A. O. Yakubchik. Chem Soc J 127:417-40 F '25
Second report of the committee on contact catalysis; special hydrogenations. W. D. Bancroft. J Phys Chem 27:877-92 D '23; Same. (Reprint & Circ. Ser. 50) p. 877-92 50c National research council, 1701 Massachusetts av, Washington, D.C.
Study of the tars and oils obtained from coal. F. S. Sinnatt and J. G. King. Soc Chem Ind J 44:421-4 Ag 14 '25; Excerpt. Chem Age (Lond) 13:95-6 Jl 25 '25
Third report of the committee on contact catalysis. H. S. Taylor. J Phys Chem 28: 903-15 S '24
La transmutation hydrogénée des combustibles en carburants. A. Grebel. Génie Civil 86:333-8 Ap 4 '25

HYDROGRAPHIC surveying
Radio acoustic method of position finding in hydrographic surveys. N. H. Heck, E. A. Eckhardt and M. Keiser. 23p U.S. Coast and geodetic survey, Washington, D.C. '24
See also Sounding

HYDROLYSIS
Adsorption by activated sugar charcoal; proof of hydrolytic adsorption. E. J. Miller. Am Chem Soc J 46:1150-8 My '24

HYDROLYSIS—*Continued*
Chemistry of the sulfite process; studies of the acid hydrolysis of wood. R. N. Miller and W. H. Swanson. diag Ind & Eng Chem 17:843-7 Ag '25; Same. Paper Tr J 81:53-7 S 10 '25
Destructive and preservative effect of neutral salts upon hide substance. A. W. Thomas and S. B. Foster. Ind & Eng Chem 17:1162-4 N '25
Effect of presteaming on the hydrolysis of wood. E. C. Sherrard and J. O. Closs. il Ind & Eng Chem 17:847-9 Ag '25
Effect of sulfides on the alkaline hydrolysis of skin and hair. H: B. Merrill. Ind & Eng Chem 17:36-9 Ja '25
Hydrolysis, and the theory of induced alternate polarities; abstract and discussion. D. R. Boyd. Soc Chem Ind J (Chem & Ind) 43: 664-5 Je 27 '24
Hydrolysis of acylchloroamines in water. F: G: Soper. Chem Soc J 127:98-102 Ja '25
Hydrolysis of auramine. W. C. Holmes and J. F. Darling. Am Chem Soc J 46:2343-8 O '24
Hydrolysis of ββ′-dichlorodiethyl sulphide and action of hydrogen halides on divinyl sulphide. S. H. Bales and S. A. Nickelson. Chem Soc J 123:2486-9 O '23
Hydrolysis of iodine as measured by the iodine electrode. H. D. Murray. Chem Soc J 127: 882-5 Ap '25
Hydrolysis of potassium ferricyanide and potassium cobalticyanide by sulphuric acid. H: Bassett and A. S. Corbet. Chem Soc J 125: 1358-66 Je '24
Hydrolysis of skin and hair. H: B. Merrill. Ind & Eng Chem 16:1144-6 N '24
Hydrolysis of starch by means of oxygenated water. Am Dyestuff Rep 14:377-8 Je 1 '25
Hydrolysis of the *d*-glucosides of *d*- and *l*-borneol with emulsin. S. Mitchell. Chem Soc J 127:208-9 Ja '25
Hydrolysis of the *p*-toluenesulphonchloroamides in water. F: G: Soper. Chem Soc J 125:1899-1910 S '24
Hydrolytic decomposition of phosphorus trichloride. A. D. Mitchell. Chem Soc J 127: 336-42 F '25
Influence of dilution on the hydrolytic dissociation of some oxime hydrochlorides. L. B. Tansley. Chem Soc J 123:3164-71 D '23
Influence of gum arabic on the hydrolysis of methyl acetate. J. N. Pearce and J. V. O'Leary. J Phys Chem 28:51-4 Ja '24
Liberation of carbon dioxide, ammonia and amino nitrogen from casein by acid hydrolysis. M. S. Dunn. Am Chem Soc J 47:2564-8 O '25
Methylations; hydrolysis of dimethyl sulfate. H. F. Lewis, O. Mason and R. Morgan. Ind & Eng Chem 16:811-12 Ag '24
Mutarotation as a factor in the kinetics of invertase action. J. M. Nelson and O. Bodansky. Am Chem Soc J 47:1624-38 Je '25
Preparation and hydrolysis of substituted cyanamides; di-*n*-butylcyanamide and diallylcyanamide. E. B. Vliet. Am Chem Soc J 46:1305-8 My '24
Reactions at the interface of two immiscible liquids and the part played by the vapour of each; the reaction between water and benzyl chloride. G: Harker. diag Chem Soc J 125:500-11 Mr '24
Sulfuryl chloride; hydrolysis to sulfuric and hydrochloric acids. R. H. McKee and C. M. Salls. diag Ind & Eng Chem 16:833-6 Ag '24
See also Esters

HYDROMELONIC acid
Some ammono-carbonic acids and their reactions in liquid ammonia. W: L. Burdick. Am Chem Soc J 47:1485-90 Je '25

HYDROMETALLURGY
Chemico-electrical methods are replacing smelting in metal recovery. Chem & Met Eng 32:40 Ja 12 '25
Copper-ore leaching by salt water and sulphur dioxide. C. S. Vadner. Eng & Min J 117:1039-40 Je 28 '24
Electrolysis of ammoniacal zinc carbonate solutions. T: P. Campbell. flow sheet Am Electrochem Soc Trans v 46 (preprint 1):1-8, pl 1-6 O '24
Ferric sulphate leaching at Inspiration. G. D. Van Arsdale. Eng & Min J 120:689 O 31 '25
Floating and leaching copper-molybdenum ores. H. A. Doerner. flow sheet Eng & Min J 119:925-6 Je 6 '25
Golden cycle "superthickener" and clarifier. N. Cunningham. diags Eng & Min J 119: 905-7 My 30 '25
Hydrometallurgy; expansion in new fields. A. W. Allen. Eng & Min J 119:112-14 Ja 17 '25
Hydrometallurgy of lead. O. C. Ralston. Engineering 117:251-2, 319-20 F 22, Mr 7 '24
Hydrometallurgy of oxidized zinc ores. Brass W 20:104 Mr '24
Hydrometallurgy; silver and gold—copper—lead, zinc and iron. R. Gahl. Eng & Min J 117:107-9 Ja 19 '24
Laboratory tests for chloride blast roasting and leaching. T. P. Holt. diags Eng & Min J 117:922-5 Je 7 '24
Progress in hydrometallurgy of lead-zinc ores. A. B. Parsons. flow sheets il Eng & Min J 119:55-61 Ja 10 '25
Progress in leaching the Ohio copper mine. F. E. Wormser. il diags Eng & Min J 118:124-7 Jl 26 '24
Progress in the application of continuous hydrometallurgical methods in the chemical industry. J: V. N. Dorr. diags Am Inst Chem Eng Trans v 16 pt 1:185-201 '24; Excerpts. Chem & Met Eng 31:463-4 S 22 '24
Rapid lixiviation of metallic salts from ores. Chem Age (Lond) 13:sup2-3 Jl 4 '25
Six-cent copper from Calumet & Hecla tailings. C. H. Benedict. flow sheet il diags map Eng & Min J 117:277-84 F 16 '24
Technology of leaching and extraction. A. W. Allen. il diags Chem & Met Eng 32:561-5 Je '25
Treating Pilbara copper ore. H. R. Sleeman. Eng & Min J 119:296 F 14 '25
Washing residues from copper ore leaching. G. D. Van Arsdale. Eng & Min J 118:653-5 O 25 '24

HYDROMETERS
How to read a hydrometer. Power 61:907 Je 9 '25
Solids hydrometer. R. W. Crist. Blast F & Steel Pl 12:330+ Jl '24

HYDROMUCONIC acid
Muconic and hydromuconic acids; valency interchange in the hydromuconic system. E. H. Farmer. Chem Soc J 123:3324-31 D '23

HYDRON blue
Dyeing cotton piece goods with hydron blue. I. Ginsberg. Am Dyestuff Rep 13:119-20+ F 25 '24

HYDRON dyes
New derivatives of the hydron dyes. Color Tr J 16:71-2 Mr '25

HYDRONITRIC acid. See Hydrazoic acid

HYDROPEAT. See Peat

HYDROPLANES
150 m.p.h. in a motorboat! G. Wood. Soc Auto Eng J 15:487-8 D '24

HYDROQUINONE
Addition compounds of hydroquinone with aliphatic amines. R. N. Harger. Am Chem Soc J 46:2536-9 N '24
Influence of hydrogen concentration on the auto-oxidation of hydroquinone; a note on the stability of the quinhydrone electrode. V: K. La Mer and E. K. Rideal. Am Chem Soc J 46:223-31 Ja '24
Oxidation of hydroquinone in the presence of aliphatic amines; formation of bis(alkylamino) quinones. R. N. Harger. Am Chem Soc J 46:2540-51 N '24

HYDROSOLS. See Colloids

HYDROSTATICS
Properties of matter under high pressure. P. W. Bridgman. il diags Mech Eng 47:161-9 Mr '25
Water at rest. diags Power 58:961 D 11 '23
What is the value of the hydrostatic test? T: H. Fenner. Power 58:851-3 N 27 '23

HYDROSULFIDES
Analysis of technical hydrosulphide liquors; abstract. W. Bernard. Soc Dyers & Col J 41:289 Ag '25

HYDROSULFITES. See Hyposulfites

HYDROXAMIC acids
Study of some new hydroxamic acids of hydroxy and alkoxy fatty acids. L. W. Jones and D. H. Powers. Am Chem Soc J 46: 2518-33 N '24

HYDROXIDES
Action of arsenic trioxide in water solution on certain metallic hydroxides. L. G. Story and E. Anderson. Am Chem Soc J 46:533-9 Mr '24
Electrometric studies of the precipitation of hydroxides. H. T: S. Britton. Chem Soc J 127:2110-59 S '25
Reaction of sulfur with alkali and alkaline earth hydroxides in aqueous solutions. H. V. Tartar and C. Z. Draves. Am Chem Soc J 46:574-80 Mr '24

HYDROXOPENTAMMINOCHROMIC salts
Researches on chromammines; hydroxopentamminochromic salts and electrical conductivities of chromammines. H. J. S. King. Chem Soc J 127:2100-9 S '25

HYDROXY compounds
Condensation of primary alcohols with resorcinol and other hydroxy aromatic compounds. R. N. Sen and N. N. Sarkar. Am Chem Soc J 47:1079-91 Ap '25
Electrometric study of the titration of boric acid. M. G. Mellon and V. N. Morris. Ind & Eng Chem 16:123-6 F '24
Metallic hydroxy-acid complexes; the constitution of cuprimalates and analogous compounds. I. W: Wark. Chem Soc J 125: 2004-9 O '24
Properties of neighbouring hydroxy-groups attached to a benzene nucleus. R. L. Alimchandani. Chem Soc J 125:539-43 Mr '24

HYDROXYACETYLBUTYL alcohol
Unsaturated reduction products of sugars and their transformations: δ-hydroxyacetylbutyl alcohol, a simple ketose. M. Bergmann and A. Miekeley. Chem Soc J 124 pt 1:1053-5 N '23

HYDROXYANTHRAQUINONES
Hydroxyanthraquinone derivatives; abstract. Soc Dyers & Col J 41:285-6 Ag '25
Reduction products of hydroxyanthraquinones. A. Breare and A. G: Perkin. Chem Soc J 123:2603-11 O '23
Reduction products of the hydroxyanthraquinones. F: L. Goodall and A. G: Perkin. Chem Soc J 125:470-6 Mr '24
Reduction products of the hydroxyanthraquinones. J: W. E. Haller and A. G: Perkin. Chem Soc J 125:231-9 Ja '24
Reduction products of the hydroxyanthraquinones. A. G: Perkin and G. Yoda. Chem Soc J 127:1884-8 Ag '25

HYDROXYBENZALDEHYDE
Bromo-derivatives of *m*-hydroxybenzaldehyde. H. H: Hodgson and H. G. Beard. Chem Soc J 127:875-81 Ap '25
Nitration of the carbonate and ethyl carbonate of *m*-hydroxybenzaldehyde. F: A. Mason. Chem Soc J 127:1195-9 My '25
Solubility of the hydroxybenzaldehydes and the hydroxytolualdehydes. N. V. Sidgwick and E. N. Allott. Chem Soc J 123:2819-26 N '23

HYDROXYBENZILS
Hydroxybenzils. J: T. Marsh and H: Stephen. Chem Soc J 127:1633-7 Jl '25

HYDROXYBENZOPYRYLIUM compounds
New route to the 3-hydroxybenzopyrylium salts. L. R. Ridgway and R. Robinson. Chem Soc J 125:2240-4 N '24

HYDROXYCAMPHOR
Studies in the camphane series. M. O. Forster and P. P. Shukla. Chem Soc J 127:1855-60 Ag '25

HYDROXYDISTYRYL ketones
Interaction of acetoacetic ester and α-hydroxydistyryl ketones. I. M. Heilbron and T: A. Forster. Chem Soc J 125:2064-8 O '24
Interaction of ethyl acetoacetate and *o*-hydroxydistyryl ketones. I. M. Heilbron, T: A. Forster and A. B. Whitworth. Chem Soc J 127:2159-67 S '25

HYDROXYL group
Tautomerism depending on the mobility of a hydroxyl group; open-chain triad systems. M. D. Farrow and C. K. Ingold. Chem Soc J 125:2543-53 D '24

HYDROXYLAMINE
Action of hydroxylamine and of hydrazine on the aryl monothio amides of carbethoxyethylmalonate. D: E. Worrall. Am Chem Soc J 45:3092-5 D '23
Action of hydroxylamine and of hydrazine on the aryl monothio-amides of ethyl acetylmalonate. D: E. Worrall. Am Chem Soc J 46:2832-4 D '24
Action of hydroxylamine upon sulfinic acids and their derivatives. H. F. Whalen and L. W. Jones. Am Chem Soc J 47:1353-7 My '25
Hydroxylamine salts of organic acids. R. E. Oesper and M. P. Ballard. Am Chem Soc J 47:2424-7 S '25
New halogen derivatives of camphor; action of hydroxylamine on α- and ά-chlorocamphor and bromocamphor; action of sodium methoxide and ethoxide on αβ-dibromocamphor—formation of esters of α-bromocampholenic acid. H: Burgess. Chem Soc J 125:2375-81 N '24
Preparation of free hydroxylamine. C: D. Hurd and H. J. Brownstein. Am Chem Soc J 47: 67-9 Ja '25
Some new alkyl derivatives of hydroxyurethan and of hydroxylamine. L. Neuffer and A. L. Hoffman. Am Chem Soc J 47:1685-7 Je '25

HYDROXYLAMINE hydrochloride
Separation of selenium and tellurium. V. Lenher and C. H. Kao. Am Chem Soc J 47:2454-61 O '25

HYDROXYMETHYL-benzoic acid
Derivatives of para-hydroxymethyl-benzoic acid; esters. F. H. Case. Am Chem Soc J 47:1143-7 Ap '25

HYDROXYPHENYLPROPIONAMIDES
Studies on the Walden inversion; the influence of the solvent on the sign of the product in the conversion of β-bromo-β-phenylpropionic acids into β-hydroxy-β-phenylpropionamides. G: Senter and A. M. Ward. Chem Soc J 127:1847-51 Ag '25

HYDROXYSTEARIC acid
γ-hydroxystearic acid. P. W. Clutterbuck. Chem Soc J 125:2330-3 N '24

HYDROXYSTYRYL ketones
Interaction of ethyl acetoacetate with *o*-hydroxystyryl ketones. T: A. Forster and I. M. Heilbron. Chem Soc J 125:340-7 F '24

HYDROXYSTYRYL methyl ketone
Isomerism of the styryl alkyl ketones; the isomerism of 2-hydroxystyryl methyl ketone. A. McGookin and I. M. Heilbron. Chem Soc J 125:2099-2105 O '24

HYDROXYTOLUALDEHYDES
Solubility of the hydroxybenzaldehydes and the hydroxytolualdehydes. N. V. Sidgwick and E. N. Allott. Chem Soc J 123:2819-26 N '23

HYDROXYURETHAN
Some new alkyl derivatives of hydroxyurethan and of hydroxylamine. L. Neuffer and A. L. Hoffman. Am Chem Soc J 47:1685-7 Je '25

HYGIENE
Health and efficiency. M. V. O'Shea and J. H. Kellogg. rev. ed. 347p Macmillan '25

HYGIENE—*Continued*
Health work at Florida state college for women, Tallahassee, Florida. E: Conradi. il Nation's Health 6:661-3+ O '24
How busy business men can keep fit. E. L. Fisk. Forbes 16:805-6, 877-8 S 15-O 1; 17:12 O 15; 25 N 1; 23 N 15; 36 D 15 '25
Increasing the earning power of the engineer. H. Almert. Prof Eng 10:11-12 F '25
Keep well people well. R. Carothers. Nat Safety N 8:23-4 N '23
Rest 3 weeks instead of 2. F. E. French. Credit M 7:17+ Je '25

See also Air conditioning; Air pollution; Baths; College hygiene; Disinfection and disinfectants; Exercise; Fatigue; Health centers; Humidity; Nutrition; Posture; Public health; Sanitation; School hygiene; Shoes; Tropics—Diseases and hygiene; Ventilation; Water pollution; Water purification

Study and teaching

Crusade method of training for right living. C: M. De Forest. Nation's Health 6:75-6 F '24
Health education and the schools. A. J. Lanza. Nation's Health 7:688-9 O '25
Health training and instruction in the public schools. C: H. Keene. il Nation's Health 6:608-11+ S '24
Plea for health education in all high schools. F. W. Barrows. Nation's Health 6:775-7+ N '24
Puppet plays teach health to Czechoslovak children. K. Driml. il Nation's Health 7: 463-4+ Jl '25
Teach health games to children waiting in clinics. F. M. Whitman. il Nation's Health 6:747-9+ N '24

HYGIENE, Industrial
Behavior studies in industry. H: B. Elkind. J Ind Hygiene 7:17-24 Ja '25
Better health in the small workshop. L. K. Frankel. Nat Safety N 12:5-6 S '25
Creating an incentive to health. H. A. Ley. Ind Management 68:250-3 O '24
Health as a purchasable commodity. C. F. N. Schram. Nat Safety N 9:33-4 F '24
Health conditions among chemical workers, with respect to earnings. Monthly Labor R 18:154-6 Ja '24
Health conditions in the printing industry. Inland Ptr 76:279-80 N '25
Health maintenance in industry. J. D. Hackett. 488p Shaw '25
Health of industrial workers. G: E. Tucker. Nation's Health 6:234-5 Ap '24
Health of the worker. L. K. Frankel and B. Bunzel. 78p [bibliog. p. 77-8] Funk & Wagnalls co., New York '24
Health of the workers. L: I. Dublin. Monthly Labor R 20:8-14 Ja '25; Same. Econ W n s 29:561-3 Ap 18 '25
Health supervision of employees in financial organizations. M. H. Kahn. J Ind Hygiene 6:110-12 Jl '24
Impressions of a visit to the United States; organizations for the scientific study of the human factor in industry. D. R. Wilson. J Ind Hygiene 7:433-9 O '25
Industrial accidents and hygiene. Published in monthly numbers of Monthly labor review
Industrial health problems considered by annual safety congress. Monthly Labor R 18: 1116-20 My '24
Industrial hygiene division N.Y. state department of labor. Nation's Health 6:37-8 Ja '24
Industrial hygiene in Moscow. A. Hamilton and R. E. Hilles. J Ind Hygiene 7:47-61 F '25
Influence of industry on health of women workers. G: Gellhorn. Nation's Health 7: 165-8+ Mr '25
New hazards of industry. F. V. Murphy. Monthly Labor R 21:250-2 Ag '25
Protecting the Belgian worker's health. Monthly Labor R 17:1167-8 N '23
Recent progress in the control and elimination of industrial diseases. L. K. Frankel Ann Am Acad 121:10-15 S '25
Sickness among 21,000 automobile workers. D. K. Brundage. 13p U.S. Public health service, Washington '24
Survey of dry cleansing methods in the vicinity of Boston, Mass. W. J. Connell, R. W. Lamson and P. Drinker. bibliog il J Ind Hygiene 6:227-44 O '24
Survey of hygienic conditions in the printing trades. S. Kjaer. il U S Bur Labor Statistics Bul 392:1-229 '25
Worker's health problem. H. L. Williams. Arch & Bldg 55:114+ N '23

See also Air conditioning; Back strain; Coal miners—Diseases and hygiene; Dental service, Industrial; Diseases, Industrial; Drinking fountains; Dust; Dust removal; Eye—Examination; Eye—Protection; Eye strain; Factories—Heating and ventilation; Factory sanitation; Fatigue; Harvard mercantile health work; Medical service, Industrial; Mental hygiene, Industrial; Mine dust; Miners—Diseases and hygiene; Noise; Occupational therapy; Occupations, Dangerous; Physical examinations; Poisons, Industrial; Rock dust; Safety devices and measures; Tuberculosis; Water supply for factories; Workers' health bureau

Bibliography

Bibliography of industrial hygiene; quarterly. International labour office, Geneva '24
Personnel administration; a bibliography. W: H. Rossi and D. I. P. Rossi. p. 105-48 Williams & Wilkins co., Baltimore '25

Statistics

Sickness insurance statistics; an attempted solution. L. Teleky. J Ind Hygiene 5:434-46 Mr '24

HYGIENE, Naval. See Naval hygiene

HYGIENE, Public. See Public health

HYGIENE, Rural
Certain high death rates in rural districts. Econ W n s 29:421 Mr 21 '25
Home food production standards improve rural health. M. Birdseye. il Nation's Health 7:379-82+ Je '25
Rural and urban health: a comparison of past diseases in university students from rural and urban districts. W. P. Shepard and H. S. Diehl. bibliog J Ind Hygiene 7:481-90 N '25
Taking health to rural crossroads. L. D. Bristol. maps Nation's Health 6:309-10+ My '24

See also Water supply, Rural

HYGROMETER
Apparatus for measuring humidity; abstract. il Mech Eng 46:491 Ag '24
Science at the British Empire exhibition. il diags Engineering 118:278-9 Ag 29 '24
Temperature control in the dye house and bleachery. B. F. Wadsworth. Textile Col 45:644-7, 787-92 O, D '23

HYGROSCOPE
Lighthouse service develops hygroscopic fog signal. il diag Eng N 92:974 Je 5 '24

HYGROSCOPICITY. See Humidity

HYPERBOLIC functions. See Functions, Exponential

HYPERSPACE
Determination of the minimum plane in four-dimensional space with respect to a system of non-coplanar points. H. S. Uhler. Philos Mag 6th ser 49:1260-71 Je '25

HYPNOTICS
Tetra-alkyl-succinimides and their pharmacological action. A. W. Dox. Am Chem Soc J 47:1471-7 My '25

See also Ethyl-hexylbarbituric acid

HYPOCHLORITES
Alkyl hypochlorites. F: D. Chattaway and O: G. Backeberg. Chem Soc J 123:2999-3003 N '23

HYPOCHLORITES—*Continued*
Electrolysis of hypochlorite solution. F. Foerster. Am Electrochem Soc Trans v 46 (preprint 7):101-28 O '24

See also Alkyl hypochlorites; Sodium hypochlorite

HYPOCHLOROUS acid
Bleaching action of hypochlorous acid. S. R. Trotman. Soc Chem Ind J 43:240 Jl 18 '24
Hypochlorous acid and the alkyl hypochlorites. M. C. Taylor, R. B. MacMullin and C. A. Gammal. Am Chem Soc J 47:395-403 F '25
Ionisation constant of hypochlorous acid. F: G: Soper. diag Chem Soc J 125:2227-31 N '24
Mechanism of the oxidation of typical carbohydrates with hydrogen peroxide and hypochlorous acid. J. Craik. Soc Chem Ind J 43: 171-7 Je 6 '24
Photodecomposition of chlorine water and of aqueous hypochlorous acid solutions. A. J: Allmand, P. W. Cunliffe and R. E. W. Maddison. Chem Soc J 127:822-40 Ap '25

HYPODERMIC needles
Large uses of steel in small ways. il Iron Tr R 74:866-7 Mr 27 '24

HYPONITRITES
Hyponitrites. L. W. Jones and A. W. Scott. Am Chem Soc J 46:2172-5 O '24

HYPOPHOSPHOROUS acid
Studies on hypophosphorous acid; its reaction with chromic acid. A. D. Mitchell. Chem Soc J 125:564-75 Mr '24

HYPOSAURUS
Hyposaurus, a marine crocodilian. E: L. Troxell. il Am J Sci 5th ser 9:489-514 Je '25

HYPOSULFITES
Control of hydrosulphite vats. A. Lauterbach. Am Dyestuff Rep 14:457-62 Jl 13 '25
Factors which affect the stability of hydrosulphite discharge pastes, with suggestions for improvement. C: S. Hollander. Am Dyestuff Rep 13:62-3; Discussion. 63-4 Ja 28 '24

HYSTERESIS
Anhysteretic qualities of iron and nickel and the energy change at the critical temperature. J. R. Ashworth. Philos Mag 6th ser 47:848-59 My '24
Effect of a superposed alternating field on apparent magnetic permeability and hysteresis loss. T. Spooner. diags Phys R 25:527-40 Ap '25
Effect of punching strains on the magnetic properties of electrical sheet steel. G. H. Cole. il Elec J 21:55-61 F '24
Effect of tension upon magnetization and magnetic hysteresis in permalloy. O. E. Buckley and L. W. McKeehan. Phys R 26: 261-73 Ag '25
Effect of various preparations of mercurous sulfate on the electromotive force and hysteresis of Weston standard cells. W. C. Vosburgh and M. Eppley. Am Chem Soc J 46:104-11 Ja '24
Hysteresis character of corona formation. H. J. Ryan and H: H. Henline. il diags Am Inst E E J 43:825-30 S '24; Discussion. 44: 513-22 My '25
Properties and testing of magnetic materials. T. Spooner. Elec J 22:132-5, 441-6, 508-14, 554-8, 610-17 Mr, S-D '25 (to be cont)

See also Iron losses

HYSTERIA
Studies in mental hygiene in industry; malingering. F: W. Dershimer. bibliog J Ind Hygiene 5:299-304 D '23

I

ICE
Observations on ice-borne sediments by the Canadian and other Arctic expeditions. E. M. Kindle. il Am J Sci 5th ser 7:251-86 Ap '24
Rotation of melting ice suspended in benzine. H. B. Hachey. J Fr Inst 197:825-7 Je '24
Specific heats and latent heats of fusion of ice and of several organic compounds. O. Maass and L. J. Waldbauer. Am Chem Soc J 47:1-9 Ja '25

See also Cold storage; Freezing; Glaciers; Ice-breaking vessels; Ice harvesting; Ice industry; Ice on rivers, lakes, etc.; Icebergs; Railroads—Ice supply; Refrigerators; Thawing

Delivery
Horse in ice delivery. W. Dinsmore. Refrig W 60:18 Ap '25
Ice man as an accident risk. il Refrig W 60: 20-2 My '25

Manufacture
Careful operation of reboiling system gives good ice. W. H. Howze. Power Pl Eng 29:299 Mr 1 '25
Compressed air in ice plant. J. A. Martocello. Refrig W 59:27-8 Jl '24
Cracked and checked ice. E. Ormsby. diags Refrig W 59:19-20+ F '24
Electrically driven ice plant. F. Ophuls. Refrig Eng 11:377-87+ My '25; Discussion. 11: 419-28; 12:99-100 Je, S '25
Flooded system of operating ice tanks. T. Mitchell. il Power 61:683-4 My 5 '25
Ice freezing tank design. C. Wilkie. Refrig Eng 10:405-7 My '24
Ice machine that created great interest in 1878. il Refrig W 59:27-8 S '24
Ice plant operation. C. Wilkie. Refrig Eng 11: 202-5 D '24
Improvements in ice plants. R. C. Doremus. Refrig W 59:17-20 Ja '24
Influence of water in making quality ice. D. K. French. Refrig W 60:23-4 S '25
Larger exhaust pipe cures oil in ice problem. R. S. Martin. diag Power Pl Eng 28:564-5 My 15 '24
Making clear ice. Power 59:914; 60:25-6, 340-1 Je 3, Jl 1, Ag 26 '24
Manufacture of artificial ice in 1877. Refrig W 60:23 My '25
New ice making apparatus; description of a new English method which uses direct expansion of ammonia or CO_2. il Refrig W 60:15-16 S '25
Operation of reboiling system for ice making. G. R. Wray. Power Pl Eng 20:155 Ja 15 '25
Points of interest to the ice manufacturer. H. J. Macintire. Refrig W 60:25-6 S '25
Raw water ice making systems. V. H. Greene. Refrig W 58:25-6+ D '23; Same cond. Power Pl Eng 28:300-1 Mr 1 '24
Raw water ice systems. J. A. Martocello. Refrig W 59:27-9 My '24
Story of artificial ice. E. T. Keyser. il Am Exporter 95:7-10+ S '24
Vacuum pump of 1884 and its application to ice making. il diag Refrig W 60:19-20 S '25
What to expect from a water-treating plant. A. S. Behrman. Power 60:1017-18 D 23 '24; Same. Refrig W 59:21-2 Ja '25

See also Ice plants; Refrigeration and refrigerating machinery

ICE age. See Glacial epoch

ICE-breaking vessels
Icebreaker Krisjanis Valdemars. il Engineer 139:686-7 Je 19 '25

ICE cream
Development of electrical refrigeration for ice-cream retailers. il Elec W 84:890-2 O 25 '24
Mechanically refrigerated ice cream cabinet. C. D. Haven. il Refrig Eng 12:103-8; Discussion. 108-10 O '25

Advertising
Campaign that sold ice cream in the winter time. Sales Management 9:181+ Ag 8 '25

Manufacture
Ice cream making. F. B. Fulmer. Refrig W 60:21-3 Ag '25

ICE cream—Manufacture—*Continued*
Material handling in the hydrox plant. diags Refrig Eng 12:94-5 S '25
Modern ice cream plant. H: G. Lamy. il Refrig Eng 11:147-9 O '24
New York ice cream plant. il plans Refrig W 60:11-15 Ja '25
Oil power reduces costs in ice cream plant. il Power Pl Eng 29:399-401 Ap 1 '25
Thermal exchange in the freezing and hardening of ice cream. H. F. Zoller. il charts Refrig Eng 11:66-9 Ag '24
World's largest ice cream plant. T. Mitchell. il plan Refrig W 59:11-14+ Jl '24

ICE cutters. See Street railroads—Ice removal

ICE handling
Ice cranes, dumps and can-filling devices. R. C. Doremus. Refrig W 58:18-20 D '23
Ice-handling equipment. J. E. Moul. il diags Refrig W 60:16-18+ Ja '25; Same. Refrig Eng 11:289-92 F '25

ICE harvesting
Ice cutting on the Hudson river in 1871. il Refrig W 59:21-3 Jl '24
Natural ice harvest. Refrig W 60:22-4 F '25
Natural ice production. C. C. Ferber. Refrig W 60:11-12 Ap '25

ICE hockey rinks
Jock Harty arena, Kingston. A. G. MacLachlan. il Can Eng 48:321 Mr 17 '25
Largest ice arena on the continent at Montreal. Eng & Contr (Bldgs) 63:1415-16 Je 24 '25

ICE industries, National association of. See National association of ice industries

ICE industry
Business principle in the ice industry. V. H. Greene. Refrig W 60:17-18 F '25
Ice industry and the public. M. J. Insull. Refrig W 59:33-4 N '24
Merchandising plan for the ice dealer. R. E. Ottenheimer. Refrig W 60:11-12 My '25
Methods of selling ice. G: C. Shepard. Refrig W 60:14-16 Mr '25
Waste in ice distribution. T. J. Burke. Refrig W 60:13-14 My '25

See also Ice—Manufacture

Advertising

Do you really know the size of your market? Ptr Ink 130:53-4 Mr 26 '25
When an entire industry backs a campaign. Ptr Ink 127:156 Je 12 '24

Employees

Report of industrial relations committee of National association of ice industries. Refrig W 59:16-21 N '24

Regulation

Government control as related to the ice industry. L. A. Bailey. Refrig W 60:23-4 Jl '25

Statistics

Hudson river ice harvest—1924. Refrig W 59:23-4 Mr '24
Natural ice harvest. Refrig W 59:23-4 F '24

Australia

Ice-making and cold-storage plants in Australia and New Zealand. U S Bur For & Dom Com Trade Information Bul 280:1-33 '24

Burma

Ice business in Burma. G: Cecil. il Refrig W 60:21-2 O '25

Canada

Ice-making and cold-storage plants in Canada. U S Bur For & Dom Com Trade Information Bul 338:1-27 '25

Ceylon

Ice business in Ceylon. G: Cecil. Refrig W 59:25-6 O '24

Great Britain

Ice-making and cold-storage plants in the United Kingdom. U S Bur For & Dom Com Trade Information Bul 330:1-32 '25

Java

Ice business in Java. G: Cecil. Refrig W 60:27-8 Mr '25

New York (city)

Ice industry of New York in 1884. il Refrig W 60:14-15 Ag '25

South America

Ice-making and cold-storage plants in South America. U S Bur For & Dom Com Trade Information Bul 209:1-40 '24

ICE on pavements
Breaking up ice ruts with road roller. il Eng & Contr (R & S) 64:978 N 4 '25

ICE on rivers, lakes, etc.
Bombing an ice jam. Aviation 16:459 Ap 28 '24
Effect of ice on river flow at Keokuk. Elec W 83:336 F 16 '24
How dynamite is used in ice blasting. N. D. Rand. Eng N 91:1065-6 D 27 '23
How to blast ice jams. Eng & Contr (R & S) 63:489-90 Mr 4 '25
Ice formations in the Main Sierra canal. G: E. Loughland. il Eng & Contr (W W) 63: 775-80 Ap 10 '25
Ice shove on high bridge piers. Eng N 93:924; 94:164-5 D 4 '24, Ja 22 '25

See also Hydroelectric plants—Ice protection; Ice-breaking vessels; Ice harvesting

ICE patrol service
Charting the ice-fields; how life and property is protected by radio-equipped coast guard cutters. S. R. Summers. il Wireless Age 12:42-3+ Ap '25
International ice patrol service. Radio Serv Bul 94:22-3 F '25

ICE plants
Creamery and ice making plant. T. Mitchell. il Refrig W 60:11-13 F '25
Crystal ice company plant, Norwalk, Conn. il Refrig W 60:11-14 Jl '25
Design of ice tanks. G: Braungart. Refrig W 60:23-4 Ap '25
Erection and operation of modern raw water ice plants. L. A. Ramsey. Refrig Eng 12: 127-8 O '25
Ice plant from a manufacturing standpoint. H. P. Hill. Refrig W 60:14-16 F '25
Largest ice plant in Cuba. il Refrig W 60: 15-16 Ap '25
Modern ice plant. W: S. Shipley. Refrig Eng 10:221-2 D '23
Modern ice plant; essential factors to be considered. C. T. Baker. Refrig W 59:17-19 Mr '24
Modern refrigerating practice. V. H. Greene. Refrig W 60:11-12 Je '25
On the road with the trouble man. M. S. Howard. Power 59:953-4 Je 10 '24
One-man 100-ton ice plant of Cullen fuel co., New York city. il Refrig W 59:13-16 O '24
Performance of a modern ice plant; description of 100-ton ice-making plant of the Diamond ice and coal co., Charleston, W.Va. C. P. Goree, jr. il plan Refrig W 59:16-20 My '24
Plant of Shelly hygiene ice co. T. Mitchell. il plan Refrig W 59:11-13 D '24
Remodeling a 300 ton ice plant. il Refrig W 59:11-14 Ag '24
Serv-ice co. builds new electrically driven raw water ice plant in Columbus, Ind. il plan Power Pl Eng 28:734-8 Jl 15 '24
Simple changes put ice plant on paying basis. H. A. Cranford. diags Power Pl Eng 29:495-6 My 1 '25
Small town ice manufacturing plant. E. F. Burton. diags Refrig Eng 11:264-7 Ja '25; Same cond. Power 61:449-51 Mr 24 '25

See also Cold storage warehouses; Ice handling

ICE plants—*Continued*

Accidents

Explosion in compressed-air tank in ice plant. B. W. Bissell. il Power 60:465 S 16 '24

Accounting

Apportioning engine room costs in combined ice making and cold storage plants. J. H. Howell. Refrig W 60:12-14 Ag '25

Costs

Manufacturing costs in ice plants. H. T. Whyte. Refrig W 59:33-4 D '24; Same. Power 61:143 Ja 27 '25

Oil engines in ice plants. G. H. Corlette. Refrig W 60:9-13+ Mr '25

Electric equipment

New Ice service co. plant, New York city. il Refrig W 59:11-15 Je '24

Equipment

Electrically driven ice plant. F. Ophuls. Refrig Eng 11:377-87+ My '25

Fulton ice co. installs electrified plant. il Power Pl Eng 28:152-3 Ja 15 '24

Fulton ice company's plant. il Refrig W 59:13-16 Ja '24

Ice making and refrigerating plants. H. P. Hill. Refrig W 59:17-20 O '24; Abstracts. Power 60:531-2 S 30 '24; Power Pl Eng 28: 1015-16 O 1 '24

Improvements in ice plants. R. C. Doremus. Refrig W 59:17-20 Ja '24

Machine equipment of Realty manager ice plant. il Power 61:640-2 Ap 28 '25

See also Ice scoring machines

Power

Application of electric energy to the modern ice making and refrigerating plant. P. Schlingman. diag Refrig Eng 11:165-72 N '24; Same cond. Power Pl Eng 28:867-8, 961-3 Ag 15, S 15 '24; Discussion. Refrig Eng 11:172 N '24; Power Pl Eng 28:1111 N 1 '24

Causes of high power bills in ice plants. C. T. Baker. il Elec W 84:1214-15 D 6 '24

Choice of the prime mover for an ice plant. M. S. Howard. il Power 60:403-5 S 9 '24

Ice making with electric power. il Elec W 82:1215-18 D 15 '23

Ice plant changes to oil engine drive. il plan Power Pl Eng 28:910-12 S 1 '24

Ice plant installs unaflow engines. il Power 59:981-2 Je 17 '24

Machine equipment of Realty manager ice plant. il Power 61:640-2 Ap 28 '25

Manufactured ice—an opportunity. A. J. Authenreith. il Elec W 86:797-800 O 17 '25; Discussion. H. D. Panton. 86:950-1 N 7 '25

Mixed-pressure turbine an important link in improving ice plant. F. A. Westbrook. il Power 62:354-6 S 8 '25

Steam vs electrically driven plants. W. T. Sandstrom. Refrig W 60:19 Jl '25

Unbiased comparison of ice-plant drives. Elec W 86:264-6 Ag 8 '25; Discussion. 86: 902 O 31 '25

Utilities and the ice business; advantages of combining the two businesses. A. J. Authenreith. il Elec W 86:844-6 O 24 '25

Safety devices and measures

Hazards of the ice scoring machine. W. J. Stuck. Safety Eng 49:39-40 Ja '25

Ice plant hazards. G: Steers, jr. Refrig W 60: 15-16 O '25

Safety work in a small ice plant. B. Dodson. Nat Safety N 10:48 O '24

ICE plants, Municipal

Grand Island municipal ice plant. Pub Works 56:129 Ap '25

ICE protection. See Hydroelectric plants—Ice protection

ICE scoring machines

Ice scoring. J. A. Boucher. il Refrig W 60: 13-15 O '25

ICE storage

See also Cold storage warehouses

ICEBERGS

Spotting icebergs at long range; Zeiss radiomicrometer. il Sci Am 131:179 S '24

See also Ice patrol service

ICELAND

Economic conditions

Economic conditions in Iceland in 1923. Econ W n s 27:657-8 My 10 '24

See also Cost of living—Iceland

IDAHO

See Coal—Idaho; Copper mines and mining—Idaho; Geology—Idaho; Hydroelectric plants—Idaho; Irrigation—Idaho; Mines and mineral resources—Idaho; Petroleum—Idaho

IDEAS in business

Borrowed ideas. il Factory 34:66-7 Ja '25

Boys who hang around the mill can originate a big seller; maker of wooden handles discovers market for baseball bats. A. Belden. Ptr Ink 127:89-90 Ap 17 '24

Do the best sales ideas come from the home office? Ptr Ink M 9:90+ Jl '24

From one industry to another. il Factory 33: 527-8 O '24

How important is the idea in advertising? E. Gilbert. Ptr Ink M 10:46+ Ap '25

Idea-getting man. E. T. Fanning. Credit M 26:17 S '24; Same. Special Lib 16:21 Ja '25

It is time to break away from tradition in manufacturing. E. Wolff. Ptr Ink M 8:34-5+ Ja '24

Make the wet blanket your partner. B. R. Brooker. Ptr Ink M 9:21+ N '24

Profits and perils of industrial progress. J: H. Van Deventer. il chart Ind Management 70:129-34, 205-9 S-O '25

Riding hobbies to business success. A. C. Belden. Ptr Ink M 8:52+ Je '24

Tortuous path of business progress. M. Hastings, jr. Ptr Ink M 10:43-4+ Mr '25

Voyages of discovery for the head of the house. A. H. Deute. Ptr Ink 132:57-8+ S 10 '25

We avoided expensive mistakes by borrowing ideas. J: MacGregor. il Factory 32:477-9+ Ap '24

When the trade thinks your product has lost its sales kick. il Sales Management 7:1351-2+ Ag '24

See also Advertisements—Copy; Suggestion systems; *also* Service and comfort stations of America, inc.

IDENTIFICATION

See Cattle—Identification; Employees—Identification; Finger prints

IDENTIFICATION of employees. See Employees—Identification

IDENTISCOPE

Your face as well as your signature to protect your checks. il Sci Am 131:333 N '24

Your face is your safety check. il Safety Eng 49:278-9 Je '25

IDLENESS, Industrial

Comparative loss of time through strikes and unemployment, Great Britain. Monthly Labor R 20:1319-20 Je '25

Control of idleness in industry. W. L. Conrad. Mech Eng 46:402-4 Jl '24; Same cond. Cassier's Ind Management 11:291-2, 321 My 29-Je '24; Abstract. Iron Age 113:1783-4 Je 19 '24

How 30 concerns handle idle facilities. Ind Management 68:215 O '24

Treatment of idle time. S. L. Gill. Paper Tr J 79:85-7 N 27 '24

See also Unemployment

IDO

Auxiliary language. Sci Am 130:83 F '24

Esperanto and Ido. J. D. Sayers. Radio N 6:1179+ Ja '25

International language for radio communication. E. F. McPike. W Soc E J 30:[current news]145-6 O '25

IGNEOUS rocks. See Rocks, Igneous

IGNITION
Ignition points of metals in oxygen under pressure. Chem & Met Eng 29:969 N 26 '23
Krupp electric stove for determining ignition temperature of fuel. diag Automotive Ind 50:6 Ja 3 '24
Selbstentzündung von ölen. H. Jentzsch. il diags Zeit Ver Deutsch Ing 69:1353-7 O 24 '25
Selbstentzündung von ölen und brennstoffen. H. Jentzsch. diags Zeit Ver Deutsch Ing 68:1150-2 N 1 '24
Some further studies with the Moore spontaneous ignition meter. W. R. Ormandy and E. C. Craven. diags Inst Pet Tech J 10:335-41 Je '24

See also Airplane engines—Ignition; Diesel engines—Ignition; Flash point; Gas—Ignition; Gas and oil engines—Ignition; Inflammable mixtures

IGNITION, Electric. See Electric ignition

IGNITION of gases. See Gases—Ignition

IGNITION tubes
Substitute for hard-glass ignition tubes. G: W. Muhleman. Ind & Eng Chem 17:309 Mr '25

IGUAZA falls
Big four in earth's water powers. H. P. Quick. maps Can Eng 47:189-2 Jl 29 '24

ILGNER apparatus
Die entwicklung der elektrischen walzwerkantriebe. F. Rohde. il diags Elektrotech Zeit 46:217-23, 261-7 F 12-19 '25

ILLINOIS
Illinois on a business basis; the civil administrative code. F. O. Lowden. Nation's Business 12:17-18 My '24

See also Electric plants (central stations)—Illinois; Geology—Illinois; Labor and laboring classes—Illinois; Mines and mineral resources—Illinois; Petroleum—Illinois; Petroleum industry and trade—Illinois; Roads—Illinois; Steel works—Illinois; Water supply—Illinois

ILLINOIS advertising clubs
Illinois clubs form state organization. Ptr Ink 131:174+ Ap 16 '25

ILLINOIS Central railroad
Alternate route solves operating problem on Illinois Central. il diags Ry Age 76:1129-33 My 10 '24
Annual report, 74th, 1923. Comm & Fin Chr 118:1927-31 Ap 19 '24
Annual report, 75th, for the year ended December 31, 1924. Comm & Fin Chr 120:2027-31 Ap 18 '25; Same, without table. Ry Age 78:1062-4 Ap 25 '25
Illinois Central acquires Southern feeder lines. map Ry Age 78:174 Ja 10 '25
Illinois Central-Edison company contract. Elec W 86:382 Ag 22 '25
I.C. electrification uses catenary system. il diag Elec Ry J 66:357-60 S 5 '25
Illinois Central improvements cost $50,000,000. map Ry Age 76:1045-7, 1066-7 Ap 26 '24
Illinois Central preferred stock offering. Moody's Inv Serv 17:324 O 1 '25
Illinois Central railroad contract. Elec W 85:98-100 Ja 10 '25; Elec Ry J 65:63-5 Ja 10 '25
Illinois Central starts construction of Edgewood cut-off. J. C. Jacobs. map Ry R 75: 962-3 D 13 '24
Power supply facilities for Illinois Central railroad electrification. diag map Elec Ry J 66:269-72 Ag 22 '25
Reduced expenses save Illinois Central net. map Ry Age 78:1031-3 Ap 25 '25
Some of the Illinois Central plans for its Chicago terminal. Ry Age 78:736-40 Mr 14 '25
Some phases of the Illinois Central railroad company's lake front improvements and electrification. D. J. Brumley. W Soc E J 30:329-42; Same abr. Eng & Contr (G C) 64:439-46 Ag 19 '25; Discussion. W Soc E J 30:342-5 Ag '25

ILLINOIS committee on public utility information
Review of six years work. J: F. Gilchrist. Pub Serv Management 39:14-15 Jl '25

ILLINOIS electric railway association
Joint meeting of the Illinois gas, electric and electric railway associations, Chicago, March 26-27. Elec Ry J 63:541-2 Ap 5 '24
Joint meeting of the Illinois gas, electric and electric railway associations, Chicago, Mar. 18-19. Elec Ry J 65:507-11 Mr 28 '25

ILLINOIS gas association
Joint meeting of the Illinois gas, electric and electric railway associations, Chicago, March 26-27. Elec Ry J 63:541-2 Ap 5 '24
Joint meeting of the Illinois gas, electric and electric railway associations, Chicago, Mar. 18-19. Elec Ry J 65:507-11 Mr 28 '25

ILLINOIS manufacturers' association
Farmer-manufacturer convention in Chicago—government price-fixing opposed—co-operative marketing approved. Comm & Fin Chr 118:386-8 Ja 26 '24

ILLINOIS mining institute
Three-day outing, June 12-15. Coal Age 25: 917, 943-4 Je 19-26 '24

ILLINOIS power and light corporation
Library
Illinois power and light corporation. J. L. Schram. Special Lib 16:286-8 O '25

ILLINOIS school of psychiatric nursing
Illinois state training school of psychiatric nursing. il Nation's Health 6:264-6 Ap '24

ILLINOIS. University
College of medicine
State medical group with a great five-fold mission. il Nation's Health 6:417-18 Je '24

ILLINOIS utility association
Convention, Chicago, Mar. 18-19. Elec W 85: 682-3 Mr 28 '25

ILLINOIS waterway
Waterway from Chicago to New Orleans. E: J. Dies. map Manuf Rec 85:77-9 Ja 31 '24

ILLUMINATING engineering. See Lighting

ILLUMINATING engineering society
Annual convention, 18th, Briarcliff Manor, N.Y., Oct. 27-30. Elec W 84:961, 1017-18 N 1-8 '24; Illum Eng Soc 19:836-913 N '24
Annual convention, 19th, Detroit, Sept. 15-18. Illum Eng Soc 20:831-68 O '25; Elec W 86: 663-4 S 26 '25
Section and chapter development conference of the I. E. S. Illum Eng Soc 19:945-1019 D '24

ILLUMINATING engineering society, London
Proceedings at the meeting, London, Jan. 22. Illum Engr 17:5-29 Ja '24

ILLUMINATION. See Lighting

ILO
AIL; fundamental principles and further illustrations of Ilo. M. Talmey. Wireless Age 12:18-19+ Je '25
AIL; the relationship of Ilo to the international language problem. M. Talmey. Wireless Age 12:18-19+ My '25
AIL; the auxiliary international language problem as related to radio. M. Talmey. il Wireless Age 12:9-11+ Ap '25
AIL; U.S. Ilo organizations—their function and activities. O. C. Roos. il Wireless Age 12:38+ Jl '25
Esperanto or Ilo—which? O. C. Roos. Radio N 6:471+ O '24; Discussion. 6:750+, 1062+ N-D '24
Lessons in improved Ilo. M. Talmey. Wireless Age 12:39+ Jl '25
Radio auxiliary language for trans-oceanic work. O. C. Roos. Radio N 5:1565+ My '24
RAILS: a radio language society. Wireless Age 11:48 My '24

ILYSANTHES
Ilysanthes, scrophularia and linaria; a morphological study. T. Holm. bibliog il Am J Sci 5th ser 8:395-410 N '24

IMHOFF tanks
Are microscopic animals a factor in the foaming of Imhoff tanks? J. B. Lackey. diags Pub Works 56:6-7 Ja '25
Explanation of an Imhoff tank. R. M. Starbuck. Dom Eng 110:21 F 28 '25
Gas production variation, Imhoff tanks. W. Rudolfs and F. L. Campbell. Can Eng 46: 440-1 Ap 15 '24
Imhoff tank discussion. A. P. Learned; K: Imhoff. Pub Works 56:10-11 Ja '25
Imhoff tanks and sprinkling filters being planned for Akron. Eng N 92:461 Mr 13 '24
Imhoff tanks—reasons for differences in behavior. H. P. Eddy. diags Am Soc C E Pro 50:616-45 My '24; Abstract. Eng & Contr (W W) 61:1052-7 My 14 '24; Abstract. Pub Works 55:75-9, 113-14, 151-3 Mr-My '24; Discussion. Am Soc C E Pro 50:901-24, 1132-6, 1500-10; 51:933-8 Ag-S, N '24, My '25; Pub Works 55:280-1 S '24
Investigation of biological purification of sewage; abstracts. W. Rudolfs. Eng & Contr (W W) 61:1301-4 Je 11 '24; Can Eng 47:179-81 Jl 22 '24
Methods of breaking up scum in Imhoff tanks. A. P. Learned. diags plans Eng & Contr (W W) 62:1277-9 D 10 '24
More unusual gases occurring in Imhoff tanks. F. L. Campbell and W. Rudolfs. Eng N 95:552-3 O 1 '25
New design for collecting methane gas from Imhoff tanks. K. Imhoff. diag plan Eng N 93:585 O 9 '24
New Jersey sewage disposal studies. Pub Works 56:101-5 Mr '25
Notes on the proper placing of the slots in Imhoff tanks. J: R. Downes. diags Pub Works 54:363-5 N '23
Organization and program of the sewage substation and some results obtained. W. Rudolfs. Am Water Works Assn J 13:73-80 Ja '25
Septic tanks vs. Imhoff tanks. H. A. Call. diags Sanitary & Heat Eng 103:148-50 Mr 6 '25
Sewage experimental work investigations. W. Rudolfs. Can Eng 49:103-5 Jl 7 '25
Some problems in the operation of Imhoff sewage tanks. E. L. Waterman. Munic & Co Eng 67:101-4 Ag '24; Same. Can Eng 46:655-7 Je 24 '24; Same abr. Eng N 92:66 Ja 10 '24

Failures
Accident to Imhoff tank unit at Fort Worth, Texas. J: B. Hawley. il diags Eng N 95: 54-5 Jl 9 '25; Same. Sanitary & Heat Eng 104:215+ O 2 '25; Discussion. Eng N 95:278, 482 Ag 13, S 17 '25

IMIDAZOLE
Sulphonation of glyoxalines. R. Forsyth, J. A. Moore and F. L. Pyman. Chem Soc J 125: 919-23 Ap '24
Tautomerism of amidines; the methylation of 4(or 5)-nitroglyoxaline and 4(or 5)-phenylglyoxaline. C: E. Hazeldine, F. L. Pyman and J: Winchester. Chem Soc J 125:1431-41 Jl '24

IMIDES
Mercury derivatives of some imides. E: Lyons. Am Chem Soc J 47:830-3 Mr '25

IMITA-gold. See Copper alloys

IMMIGRANTS in the United States
Adjusting immigrant and industry. W: M. Leiserson. 356p Harper '24
Alien: a psycho-economic problem of turnover; requiring immigrants to learn English M. K. Clark. Nation's Health 6:83-5+ F '24; Abstract. Monthly Labor R 18:955-6 My '24
Immigrant aid; national, nongovernmental activities. M. T. Waggaman. Monthly Labor R 18:187-99 Ja '24
Immigrant ten years in melting pot. F. B. Pletcher. il Iron Tr R 73:1665-7 D 20 '23
Winning of the emigrant; two New York savings banks. R. A. Lewis, jr. il Am Bankers Assn J 17:435-8 Ja '25
See also Italians in the United States

IMMIGRATION and emigration
Immigration, a world movement and its American significance. H: P. Fairchild. Rev. ed. 520p [bibliog. p. 501-11] Macmillan '25
Migration. Int Labour R 8:874-902 D '23
Migration movements. Published in monthly numbers of International labour review beginning March, 1924
Migration movements, 1920-1923. 104p International labour office, Geneva '25
Modern immigration. A. M. MacLean. 393p Lippincott '25
Rights of emigration and immigration. P. Fauchille. Int Labour R 9:317-33 Mr '24
Selective immigration. J. J. Davis. 227p Scott-Mitchell pub. co., St Paul, Minn. '25
See also Immigration law

Conferences
Migration; conferences and congresses. Int Labour R 8:705-28 N '23

Statistics
Continental immigration in Germany. Int Labour R 9:50-77 Ja '24
Statistics of continental migration in Poland. Int Labour R 9:729-55 My '24

Australia
Australia's new plan for the promotion of immigration. E. A. Chapman. Econ W n s 29:619-20 My 2 '25
Report on immigration into North Queensland. Monthly Labor R 21:892-3 O '25

Canada
Canadian immigration and emigration. Monthly Labor R 18:1167 My '24
Report on juvenile immigration to Canada. Monthly Labor R 19:1205-6 N '24

Czechoslovakia
Statistics of continental migration in Czechoslovakia. Int Labour R 10:59-85 Jl '24

Germany
Continental immigration in Germany. Int Labour R 9:50-77 Ja '24

Great Britain
Emigration from the British Isles. Economist 99:376 S 6 '24
Empire development and emigration. E. W. Shanahan. Annalist 22:794 D 17 '23
Occupations of British emigrants. Am Mach 62:498 Mr 26 '25
Problem of the heavy emigration of skilled labor from Great Britain. T. R. Wilson. Econ W n s 29:443 Mr 28 '25

Italy
Italian emigration proposal. Comm & Fin Chr 121:763-4 Ag 15 '25
Organization of a new credit institution to finance Italy's emigration and colonization interests. Econ W n s 27:451 Mr 29 '24
Recent Italian measures for protection of emigrants. Monthly Labor R 17:1436 D '23

Poland
Statistics of continental migration in Poland. Int Labour R 9:729-55 My '24

South America
Attitude of South America toward immigration. Monthly Labor R 19:721-2 S '24

United States
Actual effects of the new immigration restriction law. Econ W n s 29:627 My 2 '25
Alien migration. Published in weekly numbers of Annalist
Can we, through improved machinery, prevent wage inflation? Ind Management 67: 321-4 Je '24
Century of immigration. charts Monthly Labor R 18:1-19 Ja '24
Century of incoming alien peoples; immigration from 1819 to 1923 analyzed by races and by nationalities. Iron Age 113:780-2 Mr 13 '24

IMMIGRATION and emigration—United States —*Continued*
Continuation of present alien law, with administrative changes, and federal investigation, urged at National immigration conference. Comm & Fin Chr 117:2722-3 D 22 '23
Cooling America's melting pot. J. V: Knight. Am Bankers Assn J 16:423+ Ja '24
Demand for more labor. R. De C. Ward. Manuf Rec 88:91-2 Ag 6 '25
Effect of immigration act. Comm & Fin Chr 119:1569 O 4 '24
Federal immigration policies, 1864-1924. E. Abbott. Univ J of Business 2:133-56, 347-67, 455-80 Mr-S '24
House committee concludes hearing on immigration. Min Cong J 10:61-3 F '24
I am an immigrant. O. F. Cristensen. il Nation's Business 12:29-30 My '24
Immigrants that come to our shores. H. R. Landis. Am Ind 24:28-9 Je '24
Immigration. Published in monthly numbers of Monthly labor review
Immigration—a pressing problem. S: Gompers. Ptr Ink M 8:17-18 Ap '24
Immigration as it affects the labor situation. W. W. Husband. Boston Soc C E J 11: 21-37; Discussion. 38-48 Ja '24
Immigration committee of the N. A. of M. recommends that Congress continue the present three per centum. Am Ind 24:27-32 Ap '24
Immigration into the United States; economic effects of restriction. Economist 100:795-6 Ap 25 '25
Immigration into the United States—experience of the past century. Economist 100: 644-6 Ap 4 '25
Immigration into the United States—the restriction policy. Economist 100:697-9 Ap 11 '25
Immigration problems. V: Safford. 280p Dodd '25
Immigration problems in the United States. 130p Nat. ind. conference board, New York '23
Immigration question up to date. Nation's Business 12:54+ Ap '24
Immigration restriction under Dillingham quota law. il Min Cong J 10:6-7 Ja '24
Immigration; select documents and case records. E. Abbott. 809p Univ. of Chicago press, Chicago '24
Immigration under the new law. Nation's Business 13:50 F '25
Labor and immigration outlook. J. J. Davis. Annalist 23:15+ Ja 7 '24
Legislators' views on immigration. Nation's Business 12:63+ F '24
Massachusetts and the immigrant. Am Ind 24:33 Mr '24
New immigration policy of United States. L. W. Moffett. Iron Age 113:1354-5 My 8 '24
New immigration quotas, former quotas, and immigration intakes. E. Stewart. folding maps Monthly Labor R 19:275-85 Ag '24
No great need for immigrants. A. Johnson. Nation's Business 12:35 Ja '24
Passenger travel, 1922-1924. Survey of Cur Business 36:163 Ag '24
Restriction of immigration. E. M. Phelps. Ref Shelf 2:1-118 no 5 '24
Restriction of immigration. T. A. Rickard. Eng & Min J 117:883-4 My 31 '24
Role of labor in production costs. B: M. Anderson, jr. Chem Age 32:166 Ap '24; Same. Econ W n s 27:688-9 My 17 '24
Selective immigration favored; concensus at national conference in New York. Iron Tr R 73:1652-3 D 20 '23
Shams of immigration. H: P. Fairchild. Annalist 22:787-8 D 17 '23
Statistics of immigration for fiscal year ended June 30, 1924. W. W. Husband. Monthly Labor R 19:715-20 S '24
Tightening rather than a loosening of immigration restrictions forseen by Congress. R. Bean. Annalist 22:789+ D 17 '23
Wages—taxation—immigration. M. W. Alexander. charts Brick & Clay Rec 64:32-7 Ja 8 '24
Which races are best? A. A. Hopkins. il Sci Am 132:77-9 F '25; Discussion. 133:50-1 Jl '25
Your immigration problem. Comm & Fin 13: 2367 D 10 '24

See also Americanization; Immigrants in the United States; Immigration law—United States; Japanese in the United States

IMMIGRATION law
Legislation and government policy. Int Labour R 8:874-902 D '23

United States
Admittance of wives and children of "non-quota" immigrants. Monthly Labor R 19: 239-40 Jl '24
Attitude of Japanese toward immigration act. R. S. Hecht. Comm & Fin Chr 118:3162-3 Je 28 '24
Captain must hold alien seamen. F. B. Pletcher. Marine R 54:396-7 O '24
Chinese restaurant keeper as "merchant." Monthly Labor R 18:1351-3 Je '24
Immigration bill in conference. Comm & Fin Chr 118:1994-5 Ap 26 '24
Immigration bill passed by Congress with original Japanese exclusion provision. Comm & Fin Chr 118:2387-8 My 17 '24
Little opposition to immigration bill. L. W. Moffett. Iron Age 113:1233-4 Ap 24 '24
President signs immigration bill barring Japanese—disapproves of exclusion provision. Comm & Fin Chr 118:2645 My 31 '24
Proposal before Congress to amend the country's existing immigration legislation. Econ W n s 27:297-9 Mr 1 '24
Protest of Japanese ambassador against restrictions in immigration bill. Comm & Fin Chr 118:1854-5 Ap 19 '24
Protest of Japanese government against exclusion provision of immigration act. Comm & Fin Chr 118:2778-9 Je 7 '24
Reply of United States to Japanese protest against exclusion provision of immigration act—upholds right of Congress to control immigration. Comm & Fin Chr 118:3038-9 Je 21 '24
Text of immigration bill as enacted into law. Comm & Fin Chr 118:2779-83 Je 7 '24
United States immigration act of 1924. M. Beaman. Econ W n s 28:76-9 Jl 19 '24

IMMUNITY
Chemical aspects of immunity. H. G. Wells. 254p Chemical catalog co. '25
Local immunity in infectious diseases. Sci Am 131:31 Jl '24

See also Chemotherapy

IMPACT
Accelerometer for measuring impact. E. B. Smith. il diag Am Soc T M Pro 23 pt 2: 626-31; Discussion. 632-9 '23
Accurate accelerometers developed by the Bureau of public roads. L. W. Teller. il diags Pub Roads 5:1-9 D '24
Approximate determination of the depth of compression in copper bars during impact. E. W. Tschudi. Phys R 26:125-32 Jl '25
Brittle ranges in brass as shown by the Izod impact test. D. Bunting. Engineering 117: 350-2; Discussion. 344 Mr 14 '24; Engineer 137:290 Mr 14 '24
Collision of spherical bodies of unequal diameters and densities at very low velocities. D. B. Deodhar. il Philos Mag 6th ser 48:89-96 Jl '24
Duration of impact of a pair of bars of steel and of copper. E. W. Tschudi. diags Phys R 23:756-9 Je '24
Experiments on the duration of impacts, mainly of bars with rounded ends, in elucidation of the elastic theory. J. E. P. Wagstaff. diags Philos Mag 6th ser 48:147-58 Jl '24
Highway bridge impact moderate. E. A. MacLean. Eng N 94:662 Ap 16 '25
Impact of a solid sphere with a fluid surface and the influence of surface tension, surface layers, and viscosity on the phenomenon. G. E. Bell. diags Philos Mag 6th ser 48:753-64, pl 15 N '24

IMPACT—*Continued*
Impact tests on concrete pavement slabs. L. W. Teller. il Pub Roads 5:1-14 Ap '24; Excerpts. Munic & Co Eng 66:257-9 Je '24; Concrete 25:22-3 Jl '24; Pub Works 55:221-3 Jl '24
Impact tests on highway bridges. il Pub Roads 5:10-13 S '24; Eng N 93:621-2 O 16 '24; Concrete 26:31 Ja '25
Impact with liquid surfaces of solid bodies of various shapes. G. E. Bell. Philos Mag 6th ser 49:451-6, pl 7 F '25
Investigation of motor-truck impact. C. A. Hogentogler. Soc Auto Eng J 16:21-2 Ja '25
Method of measurement of Newton's coefficient of restitution, and the law of oblique impact. H. G. Green. il Philos Mag 6th ser 50:187-94 Jl '25
Moments and shear produced by one side of 15- and 20-ton trucks. Eng N 94:407 Mr 5 '25
Repeated impact tests are progressing. il Elec Ry J 65:252 F 14 '25
Roughness as a factor in pavement life. A. T. Goldbeck. il Eng & Contr (R & S) 61:306-16 F 6 '24; Same. Can Eng 46:275-8+ F 26 '24; Same. Munic & Co Eng 66:203-10 My '24
Six-wheel truck and the pavement. L. W. Teller. il diags plan Pub Roads 6:165-8+ O '25; Same abr. Pub Works 56:400-2 N '25
Status of the motor truck impact tests of the Bureau of public roads. C. A. Hogentogler. il Pub Roads 5:11-14 N '24; Same. Eng & Contr (R & S) 63:54-8 Ja 7 '25
Strain of swaying crowds on balcony measured at Iowa. Eng N 93:231 Ag 7 '24
Study of impact in its relation to pavement design. G. W. Hutchinson. Eng N 94:439-40 Mr 12 '25
Tire and truck impact tests. Soc Auto Eng J 17:35-6 Jl '25
Universal endurance impact testing machine. il diags Engineering 119:604, 608 My 15 '25
See also Accelerometer; Bridges—Load; Elasticity; Notched bar testing

IMPERIAL continental gas association
Accounts for the year 1923. Gas J (Lond) 166: 545-7 My 21 '24

IMPLEMENTS. See Tools

IMPORTS
Buying trust vs. selling trust. F: Simpich. il Nation's Business 12:25-8 My '24
52-year record of imports into the United States, 1871-1923, arranged alphabetically by names of products. Oil Paint & Drug Rep 105:19-20+ Mr 20 '24
53-year record of imports into the United States, 1871-1924. Oil Paint & Drug Rep 107: 27+ Mr 26 '25
Illegal competition from abroad can be stopped. Ptr Ink 129:17-20 D 4 '24
Importer's handbook. J. A. Dunnage. 368p Pitman '24
Imports. Index p 14 N '24
Imports by classes of commodities and grand divisions, 1921-1924. Survey of Cur Business 30:198, 200-1 F '24 [continued quarterly]
Imports of chemicals and allied products. Chem & Met Eng 32:146-7 Ja 19 '25
Our imports and who use them. 30p Nat. foreign trade council. New York '23; Excerpts. Am Ind 24:11-15 Mr '24
Principles of importing. W. E. Butterbaugh. 473p [bibliog. p. 443-51] Appleton '24
Secretary Hoover urges amendment of Webb-Pomerene act for control of foreign monopolies in imported raw materials. Comm & Fin Chr 118:1345 Mr 22 '24; Same. Am Ind 24:18-19 My '24
Summary of imports: calendar years 1923 and 1924. Oil Paint & Drug Rep 107:18-19 Mr 26 '25
What of German imports since the war? C: G. Miller. Ptr Ink 129:137-8+ N 6 '24

IMPROVED products. See Products, Improved

INCANDESCENT electric lamps. See Electric lamps, Incandescent

INCE, Thomas H.
Dias Dorados—estate of Thomas H. Ince, Beverly Hills, California; views and plans. Arch Rec 56:45-55 Jl '24
Ranch estate of Thomas H. Ince, Beverly Hills, Cal.; views and plans. Am Arch 125: 560a-h Je 18 '24

INCENDIARISM. See Arson

INCENTIVES (in industry). See Bonus system; Employment management—Incentives; Profit sharing; Wage payment plans; Wages

INCINERATORS. See Refuse incinerators

INCLINOMETERS
L'inclinomètre R. B., appareil indicateur de pente pour automobiles. il diag Génie Civil 84:188 F 23 '24

INCOME
Distribution of the national income among the various states. Econ W n s 30:411 S 19 '25
Division of income in the United States. W. R. Ingalls. Annalist 26:213-14+ Ag 21 '25
How fast does our income grow? R. A. Lewis, jr. Am Bankers Assn J 17:683-4 My '25
Income and purchasing power. Bradstreet's 53:545 Ag 22 '25
Incomes for 1922 as shown by the report of the Secretary of the treasury. F. W. Thornton. J Account 39:93-8 F '25
Monthly money income of American farmers, 1919-1925. Econ W n s 30:514 O 10 '25
Our national income down to $53,600,000,000. B. M. Anderson, jr. Annalist 25:11-12 Ja 5 '25 (Reprinted by the Chase National bank of the city of New York)
Our wealth and savings to 1924. W. R. Ingalls. Annalist 23:685+ Je 16 '24
Personal incomes subject to federal income tax in the United States in 1923. Econ W n s 29:881-2 Je 20 '25
Purchasing power of the consumer; a statistical index. W: A. Berridge, E. A. Winslow and R: A. Flinn. 318p Shaw '25
Statistical study of the current income of the American people in 1919, 1920 and 1921. Econ W n s 30:263 Ag 22 '25
Ultimate fund for taxation; property income alone affected. R. Estcourt. Annalist 22:757-8+ D 10 '23
See also Capital; Profit

INCOME tax
Double taxation and tax evasion. W. H. Coates. Roy Statis Soc J 88:403-27 My '25
How to calculate the amount of tax. J. J. Mitchell. Credit M 26:21 D '24
Income-tax department. S. G. Rusk. Published in monthly numbers of Journal of accountancy
Income taxation. J Account 37:70-2 Ja '24
Nature of income tax. C: F. Seeger. J Account 37:101-8 F '24; Same. Paper Tr J 78: 65-6+ Mr 6 '24
Patents in the income-tax return. H. A. Toulmin, jr. J Account 40:183-9 S '25
Tax legislation. V: G. Gough. J Account 38: 68-70 Jl '24
Taxation of incomes, corporations and inheritances in Canada, Great Britain and France. 83p U.S. Library of Congress. Legislative reference division, Washington, D.C. '24
Taxation of incomes, corporations and inheritances in Canada, Great Britain, France, Italy, Belgium, and Spain. Comp. under direction of H. H. B. Meyer, director Legislative reference division, Library of Congress. (68th Cong., 2d sess. Senate. Doc. 186) 277p Govt. ptg. off., Washington '25
Taxation problems; opinions expressed in symposium. Index p 13-14 Ag '25
Use of appraisals in determination of the income tax. S. E. Wardwell. Paper Tr J 79:53-4 Jl 24 '24
Who pays the income taxes? S. E. Barry. J Account 37:68 Ja '24
See also Corporations—Taxation: Excess profits tax

INCOME tax—*Continued*

Canada

Severity of federal income taxation in Canada. Econ W n s 29:702-3 My 16 '25

Great Britain

British taxation of agencies of American firms and corporations. Econ W n s 28:559 O 18 '24

Dictionary of income tax and super-tax practice. W. E: Snelling. 6th ed. 642p Pitman '24

Income tax, a summary of the law of income tax and super-tax. F. G: Underhay. New ed. 331p Ward, Lock & co., London and Melbourne '24

Income tax enactments and regulations, 1918-1924. R. W. Needham. 3d ed. 305p Gee and co., ltd., London '24

Income tax, here and in England. P. W. Wilson. il Nation's Business 13:32-4 Je '25

Practice and law of income tax and super tax. W: Sanders. 3d ed. 438p Butterworth & co., London '23

Principles and practice of income tax, supertax and corporation profits tax. H. W. L. Reddish and H. G. W. Teverson. 415p Pitman '24

Treatise on the law of income tax, designed for the use of the taxpayer and his advisers. E. M. Konstam. 579p Stevens and sons, London '23

Ireland

Income and other taxation in Saorstát Eireann. H. O. Meredith. Econ J 35:305-10 Je '25

Mississippi

Mississippi income tax law held unconstitutional. Comm & Fin Chr 120:1693-4 Ap 4 '25

Mississippi state income tax law upheld by state Supreme court—decision of Newton county circuit court reversed. Comm & Fin Chr 120:3023 Je 13 '25

New York (state)

Questions and answers on New York state income tax laws. 64p Irving bank-Columbia trust company, New York '24

New Zealand

Principal provisions of the income tax act of New Zealand. Econ W n s 27:306-7 Mr 1 '24

Oregon

Oregon income tax. Nat City Bank p 197 D '24

Oregon income tax law criticised. Comm & Fin Chr 118:3035-6 Je 21 '24

United States

Accounting principles underlying federal income taxes, 1924. E. L. Kohler. 489p Shaw '24

Accounting principles underlying federal income taxes, 1924; solutions to problems. E. L: Kohler. 92 l Shaw '24

Accounting principles underlying federal income taxes, 1925. E. L: Kohler. 550p Shaw '25

Advantages of a sound tax policy. A. W. Mellon. Credit M 26:15-16 Ap '24

Amortization and the income tax. L. L. Thwing. Am Mach 60:24 Ja 3 '24

Amortization possibilities and income tax. L. L. Thwing. Textile World 65:69-70 Ja 5 '24

Bank deposits and super-tax reduction. R. Estcourt. Annalist 23:185+ F 4 '24

Board of tax appeals. C: D. Hamel. J Account 38:327-36 N '24

Boost for advertising seen in tax-reduction plan. R. Van Vechten. Ptr Ink 125:17-20 N 22 '23

Builder and the income tax law. A. L. H. Street. Bldg Age 46:90-1 Ja '24

Certain municipal employees not exempt from income tax. Eng N 94:106 Ja 15 '25

Coming surtax cut. W: P. Helm, jr. Am Bankers Assn J 18:131-2 S '25

Consolidated tax returns. R. H. Allen. Management & Adm 9:121-4 F '25

Corporate finance perverted by the income tax. G: B. Robinson. Annalist 23:553+ My 12 '24

Discovery clause in income tax laws; its inequalities and abuses. A. H. Fay. Eng & Min J 117:243-5 F 9 '24

Distribution of taxable personal incomes in 1923 by sources of income and by states. Econ W n s 28:89 Jl 19 '24

Employees of municipal utilities exempt from income tax. Eng N 95:198 Jl 30 '25

Evidence in support of claim for paid-in surplus. Paper Tr J 79:53-4 Jl 31 '24

Exhaustion of patents deductible on tax return. L. Childs. Am Mach 62:424 Mr 12 '25

Explanation of Treasury's estimate of receipts incident to tax revision. A. W: Mellon. Comm & Fin Chr 118:1479-80 Mr 29 '24

Federal income and estate tax laws. W. E. Barton and C. W. Browning. 2d ed. 549p J. Byrne & co., Washington, D.C. '25

Federal income tax. G: E. Holmes. 6th ed. 2007p Bobbs '25

Federal income tax receipts by states, 1924 and 1925. Econ W n s 30:91 Jl 18 '25

Federal income taxes. E. E. Rossmoore. 864p Appleton '24

Federal taxes for 1923. 64p Federal trade information service, New York and Washington '23

Further exposition by Secretary Mellon of the effects of excessively high surtax rates. Econ W n s 27:53-4 Ja 12 '24

Handy-digest federal income tax, 1924 ed. 71p A. Brown & sons, Baltimore '24

How to prepare a tax brief for use in hearings before the Income tax unit, before the Review division of the solicitor's office, before the Board of tax appeals. C: W: Gerstenberg. 32p Prentice-Hall '25

Inadvisability of exempting small incomes from the Federal income tax. A. W. Mellon. Econ W n s 30:593 O 24 '25

Income from state community property in California may be divided between husband and wife for federal income tax purposes—decision of Federal judge to that effect. Comm & Fin Chr 120:2503 My 16 '25

Income tax accounting. J: F. Sherwood. 195p Southwestern pub. co., Cincinnati '24

Income tax collections for fiscal year ended June 30 1925 only slightly lower than preceding year, despite 25% tax cut. Comm & Fin Chr 121:1530 S 26 '25

Income tax decision affects many consulting engineers. Eng N 93:581 O 9 '24

Income tax, here and in England. P. W. Wilson. il Nation's Business 13:32-4 Je '25

Income tax law; how the government interprets it; a summary of current rulings. Published in weekly numbers of Annalist

Income tax problems in the oil industry. J. J. Cosgrove. Am Pet Inst Bul 5:151-6 D 31 '24

Income tax procedure, 1924. R. H. Montgomery. 1899p Ronald press '24

Income tax returns in 1923 totaled $1,600,758,303. Comm & Fin Chr 121:1998 O 24 '25

Income tax—ruling governing loss from short sale. Comm & Fin Chr 121:1531 S 26 '25

Income taxes—pure and simple? M. L. Seidman. Inland Ptr 74:740-1 F '25

Individual states as contributors to the yield of the Federal income tax. A. H. Ulm. Econ W n s 30:557-8 O 17 '25

Inventory regulations and the income tax law. T. O. McGrath. Min Cong J 11:100-3 Mr '25

Kills goose that lays the tax eggs. O. R. McGuire. Am Ind 24:17-18 My '24

Lower the surtaxes! C. Glass. Credit M 27:10+ Ag '25

Mellon plan. Nat City Bank p 36-8 Mr '24

Mellon plan to turn back $323,000,000 to the public. F. H. Sisson. Am Bankers Assn J 16:491-2 F '24

INCOME tax—United States—*Continued*
Mystery of the surtax. J. H. Barnes. Nation's Business 12:51-2 Ap '24
1924 United States income and war tax guide based on Revenue act of 1921. W: KixMiller and A. R. R. Baar. 315p Commerce clearing house, New York, Washington '23
Our $300,000,000 political football. C. W. Gilbert. Burroughs Clearing House 8:5-7+ F '24
Personal incomes subject to federal income tax in the United States in 1922. A. R. Marsh. Econ W n s 28:39-40 Jl 12 '24
Plan for the equalization of federal income taxes. F. E. Seidman. Annalist 22:694+ N 26 '23
Practical effects of varying income tax rates on incomes of individuals, trusts, corporations. H: B. Fernald. Min Cong J 11:45-8 F '25
Prentice-Hall federal tax service for 1924. 2v Prentice-Hall '23
Prentice-Hall federal tax service for 1925. 2v Prentice-Hall '24
Profit-sharing contracts as affected by federal and state taxes for 1924. 8p Prentice-Hall '24
Proposals for changes in federal income tax administration. 12p Nat. ind. conference board, New York '24
Questions and answers on federal tax laws. 144p Irving bank-Columbia trust co., New York '24
Readjustment of income tax rates and the repeal of the estate and gift tax. A. W. Mellon. Econ W n s 30:594-5 O 24 '25
Reducing surtax non-partisan. G. B. Winston. Credit M 26:9+ Mr '24; Same. Econ W n s 27:449-50 Mr 29 '24
Reduction in taxes proposed by Secretary of the treasury Mellon. Comm & Fin Chr 117: 2170-2 N 17 '23
Reduction of surtax on large incomes would lead to larger government revenue. B: M. Anderson, jr. Comm & Fin Chr 119:2369-70 N 22 '24
Regulations 65 relating to the income tax under the Revenue act of 1924. 219p Corporation trust co., 37 Wall st., New York '24
Relation of tax-exempt securities to surtax reduction. Comm & Fin Chr 118:150-2 Ja 12 '24
Report of I.B.A. federal taxation committee. Comm & Fin Chr 119:1465-6 S 27 '24
Representative Ackerman proposes 25% cut in personal income taxes payable this year. Comm & Fin Chr 120:1042-3 F 28 '25
Representative Garner's tax revision plans. Comm & Fin Chr 121:1994 O 24 '25
Rules relative to additional income tax assessment explained. M. L. Seidman. Sanitary & Heat Eng 102:267+ O 17 '24
Secretary Mellon on the adjustment of income tax rate to produce the maximum revenue. Econ W n s 28:847 D 13 '24
Secretary Mellon opposes proposal of Senator Edge to remove tax on incomes under $5,000. Comm & Fin Chr 121:1993-4 O 24 '25
Secretary Mellon's tax plan and mine depletion. R. M. Haig. Eng & Min J 116:929-30 D 1 '23
Secretary of the treasury Mellon in annual report urges consideration by Congress of lowering of taxes. Comm & Fin Chr 117: 2495-6 D 8 '23
Statistics of the 1922 individual and corporate incomes subject to income tax in the United States. Econ W n s 29:125-6 Ja 24 '25
Suggested revenue act of 1925. R. M. Haig. Eng & Min J 118:877 N 29 '24
Surtax avoidance increasing. G: O. May. Credit M 26:9-10 Ja '24
Tax revision advocated by Thomas B. Paton and other representatives of American bankers association. Comm & Fin Chr 121: 2111-12 O 31 '25
Taxable income and accounting bases for determining it. G: O. May. J Account 40: 248-66 O '25; Same. Paper Tr J 81:59-64 O 22 '25; Discussion. A. A. Ballantine. J Account 40:349-54 N '25
Tips for taxpayers. Dom Eng 106:46 Ja 12 '24
Treasury rulings. Published in monthly numbers of Journal of accountancy
Use of cost inventory data in compilation of income tax returns. Paper Tr J 79:51-2 Jl 31 '24
What changes should be made in income tax laws. J: Laing. Coal Age 26:871-3 D 18 '24
What may I deduct in my tax return? Am Mach 62:321-2 F 19 '25
When does a tax accrue. E: McCarthy. J Account 37:268-74 Ap '24; Same. Paper Tr J 78:62-3 My 1 '24
When taxation information is desired; help that the Bureau of internal revenue will and will not give. Ptr Ink 126:10+ F 7 '24

See also Excess profits tax; Revenue act of 1924; United States—Board of tax appeals

Publicity

Court decision will be sought on legality of publicity of income tax returns. H. F. Stone. Comm & Fin Chr 119:2019-20 N 1 '24
District of Columbia Court of appeals rules Congress has authority to enact law for publicity of income tax returns. Comm & Fin Chr 120:2504-5 My 16 '25
Income tax publicity muddle. Bradstreet's 52: 701 N 1 '24
Income tax returns made available for inspection. Comm & Fin Chr 119:1909 O 25 '24
Obnoxious income tax publicity provision of the present Federal revenue act. A. Handy. Econ W n s 30:305-6 Ag 29 '25
Publication of income tax payments. Nat City Bank p 7-8 N '24
Publication of 1924 income tax figures by Kansas City (Mo.) papers halted. Comm & Fin Chr 120:1551 Mr 28 '25
Publicity of income tax returns. Bradstreet's 53:353 My 30 '25
Test cases involving constitutionality of publicity of income tax returns. Comm & Fin Chr 119:2831-4 D 20 '24
Treasury department's regulations governing inspection of income tax returns. Comm & Fin Chr 119:2129-30 N 8 '24
United States Supreme court upholds publication by newspapers of income tax returns. Comm & Fin Chr 120:2762-3 My 30 '25

Wisconsin

It's a family argument in Wisconsin. H: Schott. il Nation's Business 13:22-4 Ag '25
Wisconsin income tax law, interpretation, rulings and court decisions. H: B. Nelson. 2d ed., rev. & enl. 314p Trade press pub. co., Milwaukee '24

INCORPORATED municipal electrical association
Annual convention, Chester, June. Elec R (Lond) 94:996-8, 1059-60; 95:35-8, 52-3, 160-1 Je 20-Jl 11, 25 '24; Electrician 92:751-61, 791-4 Je 20-27 '24
Annual convention, 30th, Brighton, Eng. Elec R (Lond) 96:941-3, 992-5, 1010-14; 97:19, 31-4, 73-5, 89-90 Je 12-Jl 17 '25; Electrician 94: 707-22, 752-4 Je 19-26 '25

INCUBATORS
La couveuse Armor, pour l'incubation artificielle. diags Génie Civil 83:441-2 N 3 '23

INCUBATORS, Electric
Electro-farming; some radical developments in incubation. R. B. Matthews. il diag Elec R (Lond) 95:884-6 D 12 '24
Hatching chicks electrically; with cost tables. H. E. Bell. il J Elec 53:85-8 Ag 1 '24; Same cond. Elec W 84:373-5 Ag 23 '24
World's largest electric chick hatchery at Petaluma, California. M. J. Brooks. J Elec 54:48-9 Ja 15 '25

INDANONE
Influence of substituents on the formation of derivatives of 1-hydrindone from β-phenylpropionic acids. E. A. Speight, A. Stevenson and J. F. Thorpe. Chem Soc J 125:2185-92 O '24

INDANTHRENE blue
Developing indanthrene blue. J. Pokorny. Am Dyestuff Rep 13:247-8 Ap 21 '24; Abstract. Soc Dyers & Col J 40:60-1 F '24
Red and green shade of indanthrene blue RS and GCD. A. Zimmerfeldt. Chemicals (Dyestuffs sec) 17:87-8 O 12 '25

INDANTHRENE yellow G
Indanthrene yellow G. Chem & Met Eng 30: 64 Ja 14 '24

INDEMNITIES. See German indemnities

INDENE
Effects of indene on naphthalene determinations by picric acid. R. L. Brown and H. G. Berger. bibliog Ind & Eng Chem 16:917-21 S '24
Polymerization and oxidation of indene in the vapor phase. R. L. Brown. diag Ind & Eng Chem 17:920-4 S '25

INDEPENDENCE Hall, Philadelphia
Remodeling the heating and ventilating system in Independence Hall. T. W. Reynolds. il plans Heat & Ven 20:43-6 N '23

INDEX numbers (economics)
Aggregative index of wholesale prices 1859-66. J. G. Smith and D. E. Montgomery. charts R Econ Statis 7:38-43 Ja '25
Annalist index of business activity; a new graph. Annalist 25:253-4 F 16 '25
Business indexes of the Federal reserve board. Comm & Fin Chr 118:2758 Je 7 '24 [continued monthly]
Business indicators. Published in monthly numbers of Survey of current business
Construction of business activity indexes. E. W. Axe. Annalist 26:575+ N 6 '25
Cost of living index. J: Whyte. Credit M 26: 10-11+ Ag '24
Cost-of-living index for steam railroads. J. C. Hooker. J Account 38:22-30 Jl '24
Cost of living statistics of U.S. Bureau of labor statistics and the National industrial conference board; comparison of methods used. E. B. Carr. Am Statis Assn J 19: 484-507 D '24; Discussion. V. Jordan. 20: 249-53 Je '25
Deposits activity as a measure of business activity. C. Snyder. charts R Econ Statis 6:253-9 O '24
Element of probability in index-numbers. F. Y. Edgeworth. Roy Statis Soc J 88:557-75 Jl '25
Fifty years of the varying value of gold. C. Snyder. Am Bankers Assn J 16:704-6 My '24
Four types of index numbers of farm prices. L. H. Bean and O. C. Stine. Am Statis Assn J 19:30-5 Mr '24
Index numbers. I. Fisher. Special Lib 16:79-81 Mr '25
Index numbers of wholesale prices. Published in monthly numbers of Engineering and contracting (buildings)
Index of profits. Am Statis Assn J 20:104-7 Mr '25
Interpretation of the index of general business conditions. W. L. Crum. R Econ Statis 7:sup217-35 S '25
Measures of movements; Bradstreet's price index numbers. See weekly numbers of Bradstreet's
Methods of calculating index numbers. F. Klezl. Int Labour R 10:236-62 Ag '24
Methods of compiling cost of living index numbers. 64p International labour office, Geneva '25
Movement of the product of agriculture. W. L. Crum. charts Ry Age 77:703-6 O 18 '24
Nature of an unequivocal price-index and quantity-index. G: H. Knibbs. bibliog Am Statis Assn J 19:42-60, 196-205 Mr-Je '24
New clearings index of business for fifty years. C. Snyder. Am Statis Assn J 19:329-35 S '24
New index of business activity. C. Snyder. charts Am Statis Assn J 19:36-41 Mr '24
New index of the general price level from 1875. C. Snyder. Am Statis Assn J 19;189-95 Je '24
New measures of the business cycle. C. Snyder. charts Harvard Business R 3:1-7 O '24
Plurality of index-numbers. F. Y. Edgeworth. Econ J 35:379-88 S '25
Practical interpretation of index numbers. E. C. Snow. Int Labour R 11:180-99 F '25
Pre-war indexes of general business conditions. W. L. Crum. charts R Econ Statis 6:16-21 Ja '24
Price indexes in the United States. G. V. Cox. Univ J of Business 2:263-87 Je '24
Problem of a standard index number formula. G: R. Davies. Am Statis Assn J 19:180-8 Je '24
Revised indexes of industrial activity. Fed Res Bul 10:183-8 Mr '24
Revision of the weekly index number. I. Fisher. Am Statis Assn J 19:336-47 S '24
Shanghai index numbers. Bradstreet's 52:520 Ag 9 '24
Total car loadings as a business index. J. H. Leighton. Annalist 26:574 N 6 '25
Utility of index numbers. J: Whyte. Credit M 26:11+ Je '24
Wages indexes and price indexes; reply to Carl Snyder. G: Soule. Am Statis Assn J 19:517-19 D '24
Watching the fluctuations in retail and wholesale trade. W. R. Burgess. Credit M 26:8-9 N '24

INDEXES
Accountants' index; bibliography of accounting literature, January, 1921-June, 1923. 599p Am. inst. of accountants, New York '23
Cumulated index to Special libraries, v 1-13. C. G. Noyes, comp. 46p Special lib. assn., Boston '24
Index to proceedings of International association of industrial accident boards and commissions, 1914-1924. G. L. Tibbott. U S Bur Labor Statistics Bul 395:1-57 '25

See also Files and filing (documents); Newspapers—Indexes; Periodicals—Indexes

INDEXING
Finding the plan a customer wants. D. A. Hewitt. Bldg Age 47:115 Je '25
Indexing and filing articles. Power 59:339, 787-8 F 26, My 13 '24
Indexing engineering maps and data. H: A. Varney. Eng N 95:306-7 Ag 20 '25
Published newspaper index. J. Welland. Lib J 49:177-8 F 15 '24
Value of graphic indexing. C. H. Ribble. Elec W 83:748-9 Ap 12 '24

See also Files and filing (documents); Patents—Indexing

INDEXING (machine work)
Calculations for differential indexing. G: C. Smith. Am Mach 60:238 F 14 '24
Compound and differential indexing. il diags Mach 30:379-80 Ja '24
Differential indexing. W. Stainsby. Am Mach 63:10 Jl 2 '25
Drilling machines of unusual design. il diag Mach 31:785-9 Je '25
Efficient indexing jig. F. Waldo. diags Am Mach 63:360-1 Ag 27 '25
Fixture for indexing the teeth of elliptic gears. J. Williams. il diags Am Mach 63:143-5 Jl 23 '25
Graphical analysis of the Geneva stop. C. M. Conradson. diags Mach 32:212-14 N '25
Improved indexing mechanism added to gear tooth grinder. W. L. Carver. il Automotive Ind 52:147-8 Ja 22 '25
Indexing by means of two dividing heads. G: L. Hickam. il Am Mach 59:745 N 15 '23
Indexing device for heavy fixtures. H. W. Cable. diags Mach 30:302 D '23
Indexing fixture for drilling and tapping. diags Mach 31:49 S '24
Indexing fixture for multiple milling. F. Clayton. diag Am Mach 60:65 Ja 10 '24
Indexing mechanism for jig and fixture work. G: Feltner. diags Am Mach 63:283 Ag 13 '25
Indexing mechanisms for automatic machinery. C. S. Seltzer. diags Am Mach 63:15-20 Jl 2 '25; Discussion. B. M. Fine, 63:913-15 D 3 '25

INDEXING (machine work)—*Continued*
Pratt and Whitney rotary table. il Mach 31: 829-30 Je '25; Iron Age 115:1566 My 28 '25; Am Mach 62:943 Je 11 '25
Precise indexing without a dividing head. C: Kugler. diag Am Mach 62:325-6 F 19 '25
Unique method of indexing unusual numbers. R. Von Rotz. il Am Mach 62:896 Je 4 '25

See also Dividing (machine work); Dividing machines; Graduating

INDIA

See also Advertising—India; Civil service—India; Coal miners—India; Cotton trade—India; Electric plants (central stations)—India; Floods—India; Housing—India; Hydroelectric plants—India; Insurance, Life—India; Irrigation—India; Labor and laboring classes—India; Labor laws and legislation—India; Railroads — Electrification — India; Railroads—India; Roads—India; Tariff—India; Water supply—India

Commerce

Foreign trade in 1924-25. Economist 100:1138-9 Je 6 '25
India as a market for American goods. E. A. Chapman. U S Bur For & Dom Com Trade Information Bul 348:1-49 '25
India as a market for the products of other countries. F. R. Eldridge. Econ W n s 28: 547-50 O 18 '24
Indian currency and trade. Economist 99:1050-1 D 27 '24
Indian imports during the year 1924-25. Engineering 120:151 Jl 31 '25
India's foreign trade. Economist 99:446-7, 483 S 20-27 '24
India's foreign trade in 1923-24. Economist 98:sup35+ My 24 '24
India's industrial awakening in relation to the country's foreign trade. E. A. Chapman. Econ W n s 28:364-6 S 13 '24
New markets in the Far East for American advertisers. Ptr Ink 125:81-2+ D 6 '23
Openings for American goods in India. W. T. Day. il Sales Management 6:1190-1 pt 2 Je '24
Present conditions in the foreign trade of India. Econ W n s 28:410-11 S 20 '24
Trade, tariffs and transport in India. K. T. Shah. 450p National book depôt, Bombay; P. S. King & son, London '23

Economic conditions

Economic conditions in India. P. P. Pillai. 330p Dutton '25
Favorable monsoon and the increase of purchasing power in the Indian market. E. A. Chapman. Econ W n s 28:875 D 20 '24
Hoarding of gold and silver in India and its economic effects. E. A. Chapman. Econ W n s 29:846 Je 13 '25
India is ripe for American advertising. Ptr Ink 130:144+ Ja 8 '25
India's financial improvement. Economist 100: 437-8 Mr 7 '25
Wealth and taxable capacity of India. K. T. Shah and K. J. Khambata. 347p [bibliog. p. 345-7] P. S. King and son, ltd., London '24
Wealth of India. P. A. Wadia and G. N. Joshi. 438p Macmillan '25

See also Banks and banking—India; Cooperation—India; Money—India

Industries and resources

India and Burma at the British Empire exhibition. il Engineering 118:507-9, 536-9 O 10-17 '24
Management of industry in India. R. A. Packard. Ind Management 70:162-4 S '25

See also Cement industry and trade—India; Chemical industries—India; Electric industries—India; Gold mines and mining—India; Machine tool industry—India; Machinery industry—India; Mines and mineral resources—India; Paper industry and trade—India; Petroleum industry and trade—India; Steel industry and trade—India; Textile industry—India; Water power—India

Social conditions

Standard of living among middle-class Indian families in Bombay. Monthly Labor R 21: 65-7 Jl '25

INDIANA

Indiana's place in your summer sales campaigns. il Sales Management 6:1145+ Je '24

See also Electric plants (central stations)—Indiana; Finance—Indiana; Hydroelectric plants—Indiana; Motor bus lines—Indiana; Oil shales—Indiana; Petroleum—Indiana; Roads—Indiana; Water supply—Indiana; Waterways—Indiana

Industries and resources

Refractory clays and shales of Indiana. W. N. Logan. Am Cer Soc J 7:201-6 Mr '24

INDIANAPOLIS, Indiana

See also Motor bus lines—Indianapolis

Railroads

Double-deck freight terminal for Monon line. il diags Eng N 94:354-6 F 26 '25
Indianapolis has largest electric railway freight terminal in world il diags plan Elec Ry J 64:153-6 Ag 2 '24
Indianapolis, the nation's great electric freight center. J: W. Colton. il Aera 13:581-95 N '24

Rapid transit

Annual report of Indianapolis street railway for year ended Dec. 31, 1924. Comm & Fin Chr 120:3181 Je 20 '25
City planning to serve mass transportation. map Bus Transportation 4:373-6 Ag '25
$54,965 balance at Indianapolis. Elec Ry J 65:1031 Je 27 '25
Indianapolis-Louisville line does well. Elec Ry J 63:637 Ap 19 '24
More bus plans for Indianapolis. Bus Transportation 3:535 N '24

Streets

Traffic improvements proposed for Indianapolis. map Elec Ry J 64:14-15 Jl 5 '24

INDIANAPOLIS and Cincinnati railroad

How the Indianapolis & Cincinnati line was rehabilitated. il diag map Elec Ry J 64:113-17, 163-6, 203-6 Jl 26-Ag 9 '24
Indianapolis & Cincinnati traction co. G. M. Woods. il diag Elec J 21:464-7 O '24

INDIANS of North America

Indian service doctor replaces the medicine man. W. S. Stevens. il Nation's Health 7: 383-6+ Je '25

See also Chilocco Indian school

Antiquities

"Lost City" of Nevada. M. R. Harrington. il map Sci Am 133:14-16 Jl '25

INDICATION of origin. See Origin, Indication of

INDICATOR diagrams

Combining high- and low-pressure diagrams. diag Power 58:783 N 13 '23
Diagnosing engine trouble with the indicator. F. E. Bateman. diags Power 59:262 F 12 '24
Diagnosis of Diesel-engine defects from indicator diagrams. R. C. Melrose. Power 59: 898-9 Je 3 '24
Diagrams from low-pressure cylinder with condensing and non-condensing operation. Power 61:270, 880-1; 62:181-2 F 17, Je 2, Ag 4 '25
Effect of indicator motion on oil-engine diagrams. R. C. Shook. diags Power 61:306-7 F 24 '25
How shall compressors be compared? diags Power 59:644-6 Ap 22 '24
How the valve setting was improved with the aid of the indicator. J. F. Nagle. diags Power 61:838-9 My 26 '25
Indicator cards show power distribution. Power Pl Eng 29:972-3, 1019-20, 1114-15 S 15-O 1, N 1 '25
Indicator diagram shows unbalanced load. diag Power Pl Eng 29:404 Ap 1 '25

INDICATOR diagrams—*Continued*
Indicator diagrams; an instrument for converting from a time-pressure to a stroke-pressure basis. de Courcy. il diag Automobile Eng 15:334-5 O '25
Indicator diagrams from two-cycle oil engine. diag Power 60:641, 954 O 21, D 9 '24
Lesson taught by an air compressor. J. H. Pound. diag Power 60:839-40 N 25 '24
Practical Diesel engineering. L: R. Ford. diags Marine Eng 30:408-12 Jl '25
Queer indicator diagrams. E. H. Sedgwick. diags Power 61:186-7 F 3 '25
Study of indicator diagrams made easy. E. K. Benedek. diags Power 60:255-6 Ag 12 '24
Use of indicator essential to correct valve setting. R. McLaren. diags Power 61:109 Ja 20 '25
What the indicator diagrams show. diags Power 59:913 Je 3 '24

INDICATORS
Ancient indicator. G: F. Nordenholt. il Power 60:804-5 N 18 '24; Discussion. C. B. Hudson. 61:70 Ja 13 '25
Collins micro-indicator. il diags Power 59:345 F 26 '24
Continuous recording instruments for internal-combustion engines. Engineering 120:169-70 Ag 7 '25
Dalby-Watson indicator for high-speed petrol engines. H. W. Baker. il diags Engineering 119:257-9; Discussion. 259-60 F 27 '25
Dobbie-McInnes Farnboro indicator; an electro-pneumatic apparatus for high speed engines. A. W. Judge. il diags Automobile Eng 15:9-14 Ja '25
Effect of indicator motion on oil-engine diagrams. R. C. Shook. diags Power 61:306-7 F 24 '25
How the Wood engine-indicator operates. Soc Auto Eng J 14:68-9 Ja '24
De Juhász indicator; an instrument designed for high-speed engines. K. J. de Juhász. il diags Automobile Eng 15:292-5 S '25
Low speed indicator developed for high speed engines. diags Automotive Ind 50:298-9 F 7 '24
Neuer Maihak-indikator. il diags Zeit Ver Deutsch Ing 68:811-12 Ag 2 '24
New propeller log gives revolutions per minute. il Marine R 55:369-72 O '25; Marine Eng 30:642-3 N '25
Practical ideas for the engineer; proper use of engine indicators. il Marine R 54:336-9 Ag '24
Republic boiler indicator. diags Power 58:987 D 18 '23; Management & Adm 7:232 F '24

See also Carbon dioxide recorders; Speed indicators; Tachograph; Water gages

INDICATORS, Excess demand. See Electric current limiter

INDICATORS and test papers
La détermination des ions hydrogène d'une solution. A. Travers. Chimie & Ind 12:219-23 Ag '24
Determination of hydrogen-ion concentration by a spectrophotometric method and the absorption spectra of certain indicators. W. R. Brode. diags Am Chem Soc J 46:581-96 Mr '24
Diphenylamine as indicator in the titration of iron with dichromate solution. J. Knop. Am Chem Soc J 46:263-9 F '24
Diphenylamine indicator in the volumetric determination of iron. W. W. Scott. Am Chem Soc J 46:1396-8 Je '24
Mixed indicator for carbonate-bicarbonate titrations. S. G. Simpson. Ind & Eng Chem 16:709 Jl '24
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; bromocresol green. W. C. Holmes and E. F. Snyder. Am Chem Soc J 47:226-9 Ja '25
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; 1-naphthol-2-sodium sulfonate indophenol. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:2232-6 Ag '25
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; the methods. W. C. Holmes. Am Chem Soc J 46:627-31 Mr '24
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; thymol blue. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:221-6 Ja '25

See also Chemical reagents; Diphenylamine; Potassium permanganate; Turmeric paper

INDIGO
Acid reduction of indigo; abstract. W. Madelung and P. Siegert. Soc Dyers & Col J 40: 155-6 My '24
Action of chromic acid on indigo in the presence of oxalic acid. M. L. Eymer. Chemicals (Dyestuffs sec) 17:88-9 O 12 '25
Alizarin red discharge on vat indigo; abstracts. R. Haller. Soc Dyers & Col J 40:60 F '24; Am Dyestuff Rep 13:738-9 N 3 '24
Bleaching indigo and other vat dyes. diag Chemicals (Dyestuffs sec) 16:159-60 My 25 '25
Dérivés de l'indigo. M. Bader. Chimie & Ind 11:449-54 My '24; Abstract. Soc Dyers & Col J 41:30-1 Ja '25
Formula for indigo. H. King. Soc Chem Ind J (Chem & Ind) 44:135-6 F 6 '25; Same. Soc Dyers & Col J 41:140 Ap '25
Formula for indigo. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 44:230 F 27 '25
Imides, aniles and hydrazones of indigo blue; abstract. W. Madelung and O. Wilhelmi. Soc Dyers & Col J 40:155 My '24
Indigo blue fast to bleaching. Am Dyestuff Rep 14:98-9 F 9 '25
New form of soluble indigo and other vat dyes. C: E. Mullin. Textile Col 47:22-7 Ja '25
Recent progress in the vat dyestuff industry. B. De Puyster. Color Tr J 14:177-80 Je '24
Reduction of vat colors, including indigo. M. Mackenzie. Am Dyestuff Rep 14:557-62 Ag 24 '25; Same cond. Textile World 68:485-6+ Jl 25 '25
Some pages from the story of indigo. W. A. Davis. Soc Chem Ind J (Chem & Ind) 43: 266-8, 303-7 Mr 14-21 '24; Abstracts. Am Dyestuff Rep 13.310-11 My 5 '24; Soc Dyers & Col J 40:164 My '24
Some practical methods of dyeing with indigo. J. O. Somerville. Chemicals (Dyestuffs sec) 17:53 Ag 17 '25
Studies on oxidation-reduction. M. X. Sullivan, B. Cohen and W. M. Clark. 52p U.S. Pub. health service, Washington '23

INDIGO, Synthetic
La synthèse chimique et l'indigo artificiel. J. Martinet. Chimie & Ind 13:531-6 Ap '25

Analysis
Analysis of synthetic indigo by means of titanous chloride. F. L. English and W. S. Calcott. Ind & Eng Chem 17:300-3 Mr '25

INDIGO blue. See Indigo

INDIGO white
Alkyl and acyl derivatives of indigo white and indoxyl; abstract. W. Madelung. Soc Dyers & Col J 40:156-7 My '24

INDIGOSOL
Indigosol. Chemicals (Dyestuffs sec) 16:160 My 25 '25
Indigosol DH in dyeing and printing; abstracts. C. Vaucher and M. Bader. Soc Dyers & Col J 41:34-5 Ja '25; Am Dyestuff Rep 13:841 D 15 '24
Indigosol O and other indigosol colors. C: Schreiner and F. Peterhouser. Am Dyestuff Rep 14:25-8 Ja 12 '25
New form of soluble indigo and other vat dyes. C: E. Mullin. Textile Col 47:22-7 Ja '25
Recipe for the dyeing of indigosol DH on wool. Soc Dyers & Col J 41:137 Ap '25

INDIGOTIN sulfonates
Spectroscopy of the sulfonated indigotins. W. C. Holmes. Am Chem Soc J 46:208-14 Ja '24

INDOLE
Humin formed by the acid hydrolysis of proteins; the condensation of indole derivatives with aldehydes. G: O. Burr and R. A. Gortner. Am Chem Soc J 46:1224-46 My '24
Mechanism of E. Fischer's synthesis of indoles; application of the method to the preparation of a pyrindole derivative. G. M. Robinson and R. Robinson. Chem Soc J 125:827-40 Ap '24
Syntheses in the indole series. W: O: Kermack. Chem Soc J 125:2285-91 N '24
Untersuchungen über triphenylmethanfarbstoffe, hydrazine und indole. E. Fischer. 880p J. Springer, Berlin '24

INDOPHENINE
Constitution of indophenine. W. Schlenk and O. Blum. Chem Soc J 124 pt 1:1235-6 D '23

INDOPHENOLS
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; 1-naphthol-2-sodium sulfonate indophenol. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:2232-6 Ag '25

INDUCTANCE
Inductance and capacity; the effects of harmonics on their apparent values. P. Kemp. Electrician 95:468-9 O 23 '25
Method of comparing inductance and capacity. J. M. Ganguli. Philos Mag 6th ser 49:165-7 Ja '25
Method of comparing inductance and capacity. T. B. Vinycomb. Philos Mag 6th ser 50:439-44 Ag '25
Reducing inductance on adjacent transmission circuits. H. B. Dwight. diags Elec W 83: 89-90 Ja 12 '24

INDUCTANCE, Mutual. See Mutual inductance

INDUCTANCE coils
Analyzing high frequency resistance of single-layer coils. S. Harris. Radio N 6:1174+, 1425+ Ja-F '25
Direct-current reactor design. D. C. Prince. Gen Elec R 27:380-3 Je '24
Die entwicklung der Pupinspulen. F. Hörning. Elektrotech Zeit 45:180-3 Mr 6 '24
How to design inductance coils. S: C. Miller. diags Wireless Age 11:55-6 F '24
Inductance coil for test work. J. T. Walther. diags Elec W 84:1056 N 15 '24
Measurement of the natural frequency of an inductance coil at audio-frequency. H. Nukiyama and K. Kobayashi. diags Philos Mag 6th ser 48:962-71 N '24
Measurements at radio frequency. A. Hund. diags Elec W 84:998-1000 N 8 '24; Excerpt. Electrician 93:663 D 12 '24
Winding inductance coils. R. E. Krueger. il diags Radio N 6:1644-5 Mr '25
See also Choke coils

INDUCTION (electricity)
Induction in a circuit having no resistance. C. Hering. Am Inst E E J 43:43 Ja '24

INDUCTION motors. See Electric motors, Induction

INDUCTION regulators. See Voltage regulators

INDUCTIVE interference. See Electric lines—Inductive interference

INDUSTRIAL accident boards and commissions, International association of. See International association of industrial accident boards and commissions

INDUSTRIAL accident prevention association
Annual general meeting, Ontario, May 12. Can Eng 48:531-2 My 26 '25

INDUSTRIAL advertisers' association, National. See National industrial advertisers association

INDUSTRIAL advertising. See Advertising—Industries, Appeal to

INDUSTRIAL arbitration. See Arbitration, Industrial

INDUSTRIAL arts
See also Agriculture; Architecture; Art industries and trade; Bookbinding; Building; Business; Canning and preserving; Ceramic industries; Chemical engineering; Chemistry, Technical; Commerce; Craftsmanship; Design; Dyes and dyeing; Electric engineering; Engineering; Engraving; Factories; Foundry practice; Glass manufacture; Industrial education; Industry; Inventions; Machine shop practice; Machine shops; Machinery; Machinery in industry; Manufactures; Masonry; Mechanical engineering; Metal work; Metallurgy; Occupations, Dangerous; Painting, Industrial; Paper making; Patents; Photography; Plumbing; Pottery; Printing; Production; Rubber; Shipbuilding; Tailoring; Tanning; Technical education; Technology; Textile industry; Waste products; Weaving; Woodwork

Bibliography
See Technology—Bibliography

Periodicals
Subject list of the periodical publications in the Patent office library. 282p Gt. Brit. Patent office. Library, London '24

INDUSTRIAL association of San Francisco
Restriction of marketing of building materials as affecting interstate commerce. Monthly Labor R 20:1346-8 Je '25
Restriction of marketing of building materials shipped in interstate commerce. Monthly Labor R 18:896-7 Ap '24

INDUSTRIAL betterment
See Employees; Employees' associations; Hours of labor; Housing; Housing projects, Company; Industrial councils; Unemployment—Relief measures; Welfare work in industry; Workmen's compensation

INDUSTRIAL buildings
Administration buildings for industrial plants. P: Behrens. il plans Am Arch 128:167-74, pl 224-6 Ag 26 '25
Architects and industrial building. J. P. H. Perry. Concrete 23:189-91 N '23; Same. Eng & Contr (Bldgs) 61:465-9 F 27 '24
Buildings and plant operation. Published in monthly numbers of System
Buildings for commerce and industry. 92p Ballinger co., 100 E. 42d st., New York '24
Choice of an industrial building site. M. M. Osborne. Eng & Contr (Bldgs) 61:881-3 Ap 23 '24
Concrete buildings for industrial plants. J. F. Springer. il Gas Age 54:639-41 N 1 '24
Concrete in industrial buildings. W. E. Hart. il Management & Adm 10:29-32 Jl '25
Metal lath in the construction of industrial buildings. E. M. Lurie. il diags Safety Eng 47:124-33 Mr '24
Modern type of saw-tooth roof construction; illustrated by examples designed by the Ballinger company. il diag plan Am Arch 126:25-9 Jl 2 '24
Das moderne industrie-verwaltungsgebäude. il plan Zeit Ver Deutsch Ing 69:697-9 My 16 '25
Planning the construction program. A. G. Anderson. il Management & Adm 8:595-8; 9: 117-20 D '24, F '25
We discover some better ways in building. R. W. Stevens. System 47:800+ Je '25
See also Automobile factories; Concrete construction; Department stores; Factories; Foundries; High buildings; Loft buildings; Machine shops; Mercantile buildings; Printing offices; Publishing buildings; Store buildings; Warehouses

INDUSTRIAL bureau. See Baltimore association of commerce—Industrial bureau

INDUSTRIAL chemistry. See Chemistry, Technical

INDUSTRIAL clinics. See Clinics, Industrial

INDUSTRIAL councils
Report on the establishment and progress of joint industrial councils. 231p Gt. Brit. Ministry of labour, London '23; Review. Monthly Labor R 17:1017-19 N '23
Trade organisation and labour legislation. J. A. Veraart. Int Labour R 11:784-802 Je '25

See also Employees' representation in management; *also* Council on industrial relations for the electrical construction industry; Germany—National economic council

INDUSTRIAL diseases. See Diseases, Industrial

INDUSTRIAL education
L'apprentissage. C: Quillard and others. Soc Ing Civils Bul 76:1172-1281 O '23
Conference on education and training for the industries. Mech Eng 46:145-7 Mr '24
Conserving our human resources. H. A. Frommelt. Nation's Health 7:471-3 Jl '25
Content and methods of the industrial arts. S: J. Vaughn and A. B. Mays. 397p Century co. '24
How Franklin fostered industrial education. Inland Ptr 74:555-6 Ja '25
Industrial education in Great Britain. R. L. Sackett. Mech Eng 46:145-6 Mr '24
Industrial education in Passaic. il Textile World 64:3573 D 15 '23
Industrial education is main theme at A. O. M. A. convention. W. K. Halbert. Nat Pet N 17:29-30 O 28 '25
Industry's interest in industrial training. M. W. Alexander. Mech Eng 47:94-6; Discussion. 101-2 F '25
New methods in the education of apprentices and mechanics in Germany. W: F. Turnbull. J Eng Educ 15:195-6 N '24
Report of superintendents' educational committee. R. W. Jenkins. Paper Tr J 80:53-4 Je 11 '25
Trade and industrial education. (Bul. no. 17) 112p U.S. Federal board for vocational education, Washington '24
Training for industry and the public program of vocational education. F. Cushman. Mech Eng 47:98-101; Discussion. 101-2 F '25
Vocational and other educational training by employers in Finland. Monthly Labor R 17: 1413-14 D '23
What industry expects of the public school. E. H. Fish. Management & Adm 8:257-8 S '24

See also Apprentices; Corporation schools; Employees, Training of; Engineering education; Evening and continuation schools; Foremen—Training; Foundry practice—Study and teaching; Printing, Practical—Study and teaching; Railroads—Employees—Training; Salesmen—Training; Technical education; Trade schools; Vocational education; *also* Milwaukee vocational school

INDUSTRIAL education, Cooperative
Baltimore plan of cooperative industrial education as compared with the Cincinnati plan. E. B. Luce. il Gas Age 55:253-6+ F 21 '25
Massachusetts institute of technology plan for industrial coöperation. C. L. Norton. Am Cer Soc J (Bul) 7:247-55 Jl '24
Works training courses for chemical students. Chem Age (Lond) 13:416 O 24 '25

See also Antioch college; Institute of American meat packers

INDUSTRIAL engineering
Engineer's field in industrial economics. E. Szepesi. il charts Mech Eng 46:841-8 pt 2 N '24; Discussion. 47:274-6 Ap '25
Management engineering. P. F. Walker. 359p McGraw-Hill '24
Plant engineering as a service to production management. C. N. Lauer. Ann Am Acad 119:97-102 My '25
Relation of engineering education to industry. S: A. Lewisohn. J Eng Educ 16:146-57 O '25

INDUSTRIAL engineers
Analysis of the work and responsibilities of maintenance engineers; with comments by readers. D. H. Braymer. il Ind Eng 82:10-20+ Ja '24
Profitable co-operation. L. H. Sturtevant. Chem & Met Eng 32:21 Ja 5 '25

See also Industrial service movement

INDUSTRIAL engineers, Society of. See Society of industrial engineers

INDUSTRIAL equipment trust corporation
New departure in industrial financing. Comm & Fin Chr 119:1906 O 25 '24
New quirk in industrial marketing. Ptr Ink 129:26+ N 20 '24

INDUSTRIAL farms. See Farms, Industrial

INDUSTRIAL heating. See Electric heating, Industrial; Gas as fuel; Heating, Industrial

INDUSTRIAL hygiene. See Hygiene, Industrial; Mental hygiene, Industrial

INDUSTRIAL idleness. See Idleness, Industrial

INDUSTRIAL institute
Industrial institute for the study of the fundamental problems of industry. Elec R (Lond) 96:718 My 1 '25

INDUSTRIAL insurance. See Insurance, Industrial

INDUSTRIAL laws and legislation
Profit-sharing and recent French legislation. P. Pic. Int Labour R 10:1-29 Jl '24

See also Coal trade—Regulation; Competition, Unfair; Factory laws; Labor laws and legislation; Patent laws and legislation; Textile laws and regulations; Trade marks

INDUSTRIAL libraries. See Technical libraries

INDUSTRIAL lighting. See Factories—Lighting; Foundries—Lighting; Lighting, Industrial

INDUSTRIAL management
Administration of industrial enterprises. E: D. Jones. rev. and enl. 618p Longmans '25
Analysis of modern industrial management. D. T. Farnham. Am Management R 13:3-5 Jl '24
L'application de la méthode Taylor, dans une usine de constructions mécaniques de Limoges. R. H. Bender. Génie Civil 83:491-5 N 17 '23
Arbitrary management on the defensive. J. K. Hart. Taylor Soc Bul 10:4 F '25
Budgetary control as an aid to personnel administration. H. B. Bergen. Am Management R 13:3-6 F '24
Critical analysis of scientific management. H. H. Farquhar. Taylor Soc Bul 9:16-30 F '24
Critical essays on scientific management; being a collection of articles inspired by Copley's life of Frederick W. Taylor. C: deFreminville, I. Fisher, I. M. Tarbell and others. Taylor Soc Bul 10:30-92 pt 2 F '25
Decade's development in management. H: P. Kendall. Taylor Soc Bul 9:55-65 Ap '24
Decimal classification (extracts). M. Dewey. 56p Forest press, Lake Placid club, New York '24
Development of scientific management in England. O. Sheldon. Harvard Business R 3: 129-40 Ja '25
Factors in industrial organisation. R: Wendorby. Cassier's Ind Management 11:409-10 S '24
Factory management's challenge to general management. W. A. Layman. Factory 34: 747-50 My '25
Fitting scientific management to chemical industry. L. Baumeister. Chem & Met Eng 32:551-2 Je '25
Industrial executive. B. A. Franklin. il Management & Adm 8:249-52 S '24; Same. Paper Tr J 79:53-5 S 25 '24
Industrial management and the American engineering council. L. W. Wallace. Ann Am Acad 119:127-33 My '25
Industrial psychology and the production of wealth. H. D. Harrison. 184p Dodd '25

INDUSTRIAL management—*Continued*
Influence of scientific management upon government—federal, state and municipal. M. L. Cooke. Taylor Soc Bul 9:31-8 F '24
Information classification for the management adapted from the Dewey decimal system. Management & Adm 7:449-64 Ap '24
Management as an executive function; emphasizing modern biology and psychology as essential. J: H. Williams. Taylor Soc Bul 9:66-71 Ap '24
Management in the public interest. R. T. Kent. Iron Age 113:215+ Ja 17 '24
Management methods and principles of Frank B. Gilbreth, inc. K. H. Condit. Am Mach 58:33-5, 293-5, 443-7, 665-7; 59:25-7, 329-34; 60:539-41 Ja 4, F 22, Mr 22, My 3, Jl 5, Ag 30 '23, Ap 10 '24
Management of industrial research. J. M. Weiss and C. R. Downs. Chem & Met Eng 30:475-8, 513-16, 549-54 Mr 24-Ap 7 '24
Management problems discussed at 27th annual meeting of the National metal trades association. Iron Age 115:1265-70 Ap 30 '25
Management week a national success. Mech Eng 46:932 D '24
Management week observed by leading engineering societies in country. Am Mach 63: 720 O 29 '25
Management's handbook. L. P. Alford, ed. 1519p Ronald press '24; Review. Harvard Business R 3:377-8 Ap '25
Management's responsibility to industry. G: M. Verity. Ptr Ink 126:123-4+ Ja 10 '24
Measuring the past and future of scientific management. Chem & Met Eng 30:184-5 F 4 '24
Menschenwirtschaft. A. Friedrich. il diags Zeit Ver Deutsch Ing 68:405-13. Ap 26 '24
L'organisation scientifique des entreprises et du travail. J. Ottenheimer. Génie Civil 85: 468-71 N 22 '24
Policies for successful operation; work of the industrial executive. B. A. Franklin. Management & Adm 8:391-4 O '24; Same. Paper Tr J 79:53-6 D 11 '24
Practical points on labor policy. B. A. Franklin. Management & Adm 8:611-14 D '24
Prague congress on management. Iron Age 114:500-1 Ag 28 '24
Prague International management congress. H. S. Person. Taylor Soc Bul 9:195-9 O '24
Principles underlying good management. H. Diemer. Ind Management 67:280-3 My '24
Profit-making management in the factory. B. A. Franklin. Management & Adm 9:21-6 Ja '25
Scientific management and organized labor today. G. C. Brown. Taylor Soc Bul 10:132-9; Discussion. 139-53 Je '25
Scientific management—applied common sense J. S. Gray. Mach 32:210-11 N '25
Scientific management can double wages. I. Fisher. Taylor Soc Bul 9:241-2 D '24
Scientific management in Germany. E: Michell. Taylor Soc Bul 10:119-21 Ap '25
Scientific management in other countries than the United States. F. B. Gilbreth and L. M. Gilbreth. Taylor Soc Bul 9:132-42 Je '24
Scientific management since Taylor. E: E. Hunt, ed. 263p McGraw-Hill '24; Review, by S. Chase. Taylor Soc Bul 10:174 Je '25
Shop management. F: W. Taylor. Mech Eng 46:806-7 pt 2 N '24
Society of industrial engineers 12th national convention, Cleveland. Iron Tr R 76:1290-1 My 14 '25
System or routine? W. Atwood. Ind Management (Lond) 10:246-7 N 1 '23
Taylor society discusses management problems at annual meeting. Iron Tr R 74:365 Ja 31 '24; Iron Age 113:365-6+ Ja 31 '24
Taylor society meeting, New York. Iron Tr R 75:1588-9 D 11 '24; Iron Age 114:1539-40 D 11 '24
Taylor to his men: "Take nothing for granted." il System 45:654+ My '24; Same. Taylor Soc Bul 10:89-92 pt 2 F '25
Tendencies in management. W. Clark. Am Management R 13:7-8 Jl '24
Three bad habits I seek to correct in my organization. Factory 32:310-11 Mr '24
To what extent and in what manner should detailed cost figures be given to department heads? L. M. Lamb. Paper Tr J 78: 85-8+ Ap 3 '24
Twenty years of modern management. D. S. Kimball. Management & Adm 9:113-16 F '25
What industrial psychology asks of management. W. V. Bingham. Taylor Soc Bul 9: 243-8 D '24
Who can hire management? H: S. Dennison. Taylor Soc Bul 9:101-10 Je '24
Worker representation tends to change control of management. H: F. Dennison. Automotive Ind 50:1128-30 My 22 '24

See also Automobile service stations—Management; Bonus system; Branch management; Budget, Business; Business management; Chemical plants—Management; Committees (in management); Efficiency, Industrial; Employees as stockholders; Employees' representation in management; Employment management; Employment systems; Factory management; Foremen; Foundry management; Gas companies—Management; Housing projects, Company; Hygiene, Industrial; Industrial engineers; Industrial relations; Inspection; Insurance, Business; International management congress; Inventories; Job analysis; Machine shop management; Mine management; Motion study; Motor trucks—Management; Office management; Organization in industry; Piece work; Planning; Power plants—Management; Printing offices—Management; Progress records; Railroads—Management; Routing systems; Service (in industry); Shop management; Simplification in industry; Steel works—Management; Suggestion systems; Time study; Wage payment plans; Waste; *also* Gilbreth, Frank B.; Taylor, Frederick W.

Bibliography

Cassier's technical and industrial abstracts. Published in monthly numbers of Cassier's industrial management
Current information index. Published in monthly numbers of Management and administration
European library of American management literature. Taylor Soc Bul 9:186-8 Ag '24
Management index; reviews and abstracts. Published in monthly numbers of American management review

Measurement

Evaluating the cost department. Mech Eng 46:477-9 Ag '24
Managerial achievement in human organization; can it be measured? S. A. Lewisohn. 8p American management assn., 20 Vesey st., New York '23
Measurement of management. J. W. Roe. Mech Eng 46:660 N '24

Societies

See American management association; Society of industrial engineers; Taylor society

Staff meetings

Annual staff meetings of the C.M. & St P. Ry Mech Eng 98:352-4 Je '24

Study and teaching

Content of courses in management. J. W. Roe and N. G. Burleigh. Taylor Soc Bul 10: 5-9; Discussion. 9-17 F '25

INDUSTRIAL medicine. See Diseases, Industrial; Hygiene, Industrial; Medical service, Industrial

INDUSTRIAL motor trucks. See Motor trucks, Industrial

INDUSTRIAL museums
Electrical museums. Am Inst E F. J 43:99-100, 382-3 F, Ap '24
Industrial museum; Conservatoire national des arts et metiers at Paris. P. M. Atkins. il Am Mach 63:681-4 O 29 '25

INDUSTRIAL museums—*Continued*
Manufacturer's museum becomes a public institution; Waldes museum, Prague. Ptr Ink M 8:82+ My '24
See also American museum of safety; London, England—Science museum; National museum of engineering and industries (proposed)

INDUSTRIAL mutual association of Flint
Less welfare, more well-being. J. D. Dort. Factory 33:213-14 Ag '24

INDUSTRIAL pensions. See Pensions, Industrial

INDUSTRIAL physicians and surgeons. See American association of industrial physicians and surgeons

INDUSTRIAL preparedness. See United States—Defenses

INDUSTRIAL psychology. See Psychology—Industrial applications

INDUSTRIAL railroads. See Railroads, Industrial

INDUSTRIAL relations
Accountancy and its relation to efficiency and peace in industry. A. Nimmo. Paper Tr J 79:49-52+ Jl 17 '24
Better relationship between employer and employe. W. J. Loring. Min Cong J 10:238-40 Je '24
Cooperation needed in industrial leadership. H. R. Fitzgerald. Textile World 67:828+ F 7 '25
Cost information and the worker. H. G. Jenkins. Paper Tr J 78:65 F 14 '24
Costs and our industrial relationships. S. Crouch. Paper Tr J 78:55-6 Ap 24 '24
Disturbing factors in industry. W: L. Huggins. Brick & Clay Rec 64:880-5 Je 10 '24
Education and industrial unrest. J. S. Lutes. Min Cong J 10:417-19 S '24
Eliminating fear from industry. D. G. Woolf. Textile World 65:3153-4 My 10 '24
Employer in the arm chair. T. Rich. Cassier's Ind Management 11:72-3 F 7 '24
Foundation for sound industrial relations. E. Wilson. Paper Tr J 81:57-8 S 3 '25
Function of costing in industrial relations. J. A. Lacey and H. G. Jenkins. Paper Tr J 79:53-5 O 16 '24
Great obsession. R. W. Bruère; reply by E. Mayo. Taylor Soc Bul 10:220-5 O '25
Growing interest of labor in management. R. Dickinson. Ptr Ink 132:97-100+ Jl 23 '25
Human element. G: M. Verity. Blast F & Steel Pl 12:3-4 Ja '24
Human relations in industry. E. J. Henning. Min Cong J 11:17-18 Ja '25
Industrial relations and labor conditions. Published in monthly numbers of Monthly labor review
Industrial relations first a financial problem at Ipswich mills. il Textile World 64:3817-18 D 29 '23
Industrial relations in the West coast lumber industry. C. R. Howd. U S Bur Labor Statistics Bul 349:1-120 '24
International development of the industrial welfare or personnel movement. Int Labour R 10:48-58 Jl '24
Labor problem; industrial relations and accounting for labor. J. P. Jordan. Paper Tr J 80:53-6 Ja 22 '25
Management of industrial relations; a major social problem. J: Calder. Am Management R 13:3-5 N '24
Management's responsibility to industry. G: M. Verity. Ptr Ink 126:123-4+ Ja 10 '24
Need for an industrial truce. R. Hadfield. Int Labour R 12:39-45 Jl '25
Organization and cooperation in American industry. J. J. Davis. Min Cong J 10:241-2 Je '24
Organization of labour in the army in France during the war and its lessons. A. D. Lindsay. Econ J 34:69-82 Mr '24
Personal relation in industry. J: D. Rockefeller, jr. 149p Boni & Liveright, New York '23
Progress in industrial relations. C: M. Mills. Iron Age 113:281-3 Ja 24 '24
Progress in industrial relations in 1923. il Textile World 65:759-60 F 2 '24
Promoting industrial harmony; ten years' progress in industrial and public relations. R. W. Kelly. Ind Management 69:89-92 F '25
Publicity in industrial accounts, with a comparison of English and American methods. A. Lowes-Dickinson. tables Roy Statis Soc J 87:391-419 My '24; Same, without tables. J Account 38:254-74 O '24; Discussion. Roy Statis Soc J 87:420-32 My '24
Question of leadership; reply to G. P. Hutchins. J. B. M. Clark. Ind Management 67: 34-5 Ja '24
Relations between employer and employees. L. B. Lamfrom. Sheet Metal Worker 15: 165-8 Mr 28 '24
Report of industrial relations committee of National association of ice industries. Refrig W 59:16-21 N '24
Report of the committee on industrial relations, National paper box manufacturers' association. M. L. Twomley. Paper Tr J 78: 55-6 Je 12 '24
Science, religion, and workshop. Lord Leverhulme. Soc Chem Ind J 43:242-50 Jl 25 '24
Seventy-five-cent dollar in business. S. F. Fannon. Paper Tr J 77:61-4+ D 13 '23
Socialism or feudalism? E. Dakin. Comm & Fin 13:624 Mr 26 '24
Stabilizing effect of our neutral territory individual agreement. S. L. Bush. Paper Tr J 81:63-4 Ag 6 '25
Waste elimination and the minimizing of industrial controversy discussed at the first "industrial round table" of the National civic federation. Elec W 85:843-4 Ap 18 '25
Who is going to do it? harmonize and coordinate the political, social, economic and educational ideals of industry. A. N. Doe. Am Ind 24:34-6+ N '23
With what measure? D. S. Cole. Ind Management 66:372-5 D '23
Worker and his work; human relations in an industrial age. A. A. David. Gas J (Lond) 168:98-9 O 8 '24
See also Arbitration, Industrial; Building trades—Labor problems; Clothing trade—Labor problems; Coal miners—United States; Courts, Industrial; Employees' representation in management; Employment management; Industrial councils; Industrial management; Industrial service movement; Labor and capital; Labor disputes; Production; Profit sharing; Railroad labor board; Strikes and lockouts; Trade agreements; Trade unions; Welfare work in industry; *also* Council on industrial relations for the electrical construction industry

INDUSTRIAL research
Cooperative research work. W. J. Corbett. Iron Age 113:1795-6 Je 19 '24
Coordinating research and technical information with plant control. J. A. Jeffery. il Am Cer Soc J (Bul) 7:141-52 My '24
Co-ordination of research. Engineering 118: 586-7 O 24 '24
Economic factors that make research in industry important. W: R. Mattson. Am Cer Soc J (Bul) 7:153-8 My '24
Failure of intensified research work in England. J: G. A. Rhodin. Engineer 138:430-1, 433 O 17 '24
Field of research in industrial institutions. E. W. Rice, jr. Gen Elec R 27:720-8 N '24; Same. J Fr Inst 199:65-81 Ja '25
Function and scope of industrial research. A. R. M. Fleming. Ind Management (Lond) 10: 356-7 D 27 '23
Fundamentals of research. W: L. Debaufre. Mech Eng 47:886 N '25
Grosszahlforschung. K. Daeves. Stahl & Eisen 45:79-86, 109-14 Ja 15-22 '25
How can research be made to pay? Brick & Clay Rec 65:246-9 Ag 19 '24
How these industries conduct their research. Brick & Clay Rec 65:307-12 S 2 '24
Industrial research. L. A. Hawkins. il Am Mach 63:335-8 Ag 27 '25
Industrial research. E. K. Scott. Elec R (Lond) 93:929-31 D 21 '23

INDUSTRIAL research—*Continued*
Industrial research a factor in progress. A. W. Mellon. Management & Adm 7:17-19 Ja '24; Same. Chem Age 32:15-16 Ja '24
Industrial research and resale ideas. J. C. Brush. Ptr Ink 129:85-6+ N 20 '24
Industrial research at the Bureau of standards. P. H. Bates. Am Inst Chem Eng Trans v 15 pt 2:97-103 '23
Industrial research, with special reference to electrical engineering development. W. Wilson. diags Inst E E J 62:61-82 Ja '24; Abstracts. Elec R (Lond) 93:712-13 N 9 '23; Electrician 91:510-11 N 9 '23; Discussion. Inst E E J 62:83-107 Ja '24; Electrician 91: 515, 689; 92:7 N 9, D 21 '23, Ja 4 '24
Management of industrial research. J. M. Weiss and C. R. Downs. Chem & Met Eng 30:475-8, 513-16, 549-54 Mr 24-Ap 7 '24
Old order changeth—but the process is slow and painful. E. L. Shaner. il Iron Tr R 76: 3-7 Ja 1 '25
Les rapports entre la science et l'industrie aux Etats-Unis. Génie Civil 85:480-2 N 22 '24
Report (8th annual) of the Department of scientific and industrial research, Aug. 1, 1922-July 31, 1923. Engineering 116:551-2, 582-4, 657-8, 740-1, 793-5 N 2-9, 23, D 14, 28 '23
Report of the committee of the Privy council for scientific and industrial research for the year 1923-24. Engineer 138:384-5 O 3 '24; Engineering 118:522-3 O 10 '24; Elec R (Lond) 95:593-4 O 17 '24; Chem Age (Lond) 11:369-70 O 11 '24
Report of the committee of the Privy council for scientific and industrial research for the year 1924-25. Engineer 140:436-7 O 23 '25; Elec R (Lond) 97:652-3 O 23 '25; Engineering 120:727, 789-91 D 11, 25 '25
Research among trade associations. Special Lib 16:117-19 Ap '25
Research in Europe. M. Holland. Chem & Met Eng 32:16 Ja 5 '25
Research in modern industry; an interview with Dr John E: Teeple. R: W. Edmonds. Manuf Rec 85:113-15 My 1 '24
Research—what it is and what it isn't. F. H. Colvin. Am Mach 62:239-40 F 5 '25
Scientific research as an association activity. H. E. Howe. Am Cer Soc J (Bul) 7:209-21 Je '24
Should research be charged to sales expense? Ptr Ink 132:57-8+ S 24 '25
Some experiences in cooperation between finishing departments and the research department. J: L. Christie. Brass W 21:66-7 F '25
Stimulation of research and invention. D. S. Jacobus. Mech Eng 46:575-6 O '24
Technisch-wissenschaftliche forschung in den Vereinigten Staaten von Amerika. A. Nägel. Zeit Ver Deutsch Ing 69:613-18 My 9 '25
Utilities and their part in the industrial drama. F. W. Parsons. Gas Age 53:429-30+ Ap 5 '24
We make inventing an every-day job; B. F. Goodrich rubber co. J: R. Gammeter. il System 47:181-3+ F '25

See also Automobile research; Business research; Chemical research; Cotton research; Dye research; Electric research; Engineering research; Foundry research; Gas research; Information service; Laboratories; Linen research; Paper research; Petroleum research; Scientific research; Textile research; Wool research; *also* Ford motor company—Engineering laboratory; Masaryk academy of work; Massachusetts institute of technology—Research laboratory of applied chemistry; National research council; Pittsburgh university. Mellon institute of industrial research; Structural materials research laboratory; Textile research institute (proposed); United States—Standards, Bureau of

INDUSTRIAL service movement
Engineering and the human factor. F. H. Rindge, jr. Eng & Min J 117:285-6 F 16 '24
Helping the young engineer to deal with men. F. H. Rindge, jr. Eng N 92:986-7 Je 5 '24

INDUSTRIAL statistics
Classification problem in statistics. R. H. Coats. Int Labour R 11:509-25 Ap '25
Commercial history and review of 1923. Economist 98:301-72 F 16 '24
Industrial statistics. Published in monthly numbers of Federal reserve bulletin
Industrial statistics in foreign countries. Published in monthly numbers of Federal reserve bulletin
New barometer of industry. C. Snyder. Management & Adm 6:763-6 D '23
Statistical summary of commerce and industry: 1919-1923. Survey of Cur Business 30: 6-10 F '24
Statistical summary of commerce and industry: 1920-1923 compared with January-June, 1924. Survey of Cur Business 36:7-8 Ag '24
Statistical summary of commerce and industry: 1921-1925. Survey of Cur Business 48: 7-8 Ag '25 [continued quarterly]
Trade statistics and public policy. F. D. Jones. Harvard Business R 3:394-403 Jl '25; Same. Paper Tr J 81:57-60+ O 8 '25
Use and abuse of trade statistics. A. H. Garside. Textile World 65:774-5 F 2 '24; Same. Econ W n s 27:223-5 F 16 '24

Bibliography
Sources of data. Published quarterly in Survey of current business

INDUSTRIAL towns
See Company towns; Model towns

INDUSTRIAL unions
See also Amalgamated clothing workers

INDUSTRIAL waste. See Trade waste

INDUSTRIAL welfare congress, International. See International industrial welfare congress

INDUSTRY
Absentee ownership and business enterprise in recent times; the case of America. T. Veblen. 445p Huebsch '23
Breaking down sales resistance in industrial selling; a survey of the buying habits of industry. M. Muir. Ann Am Acad 115:83-94 S '24
Industrial ownership; its economic and social significance. R. S. Brookings. 107p Macmillan '25
Industrial revolution. E. Benn. Chem Age (Lond) 10:515 My 17 '24
Industry and civilisation. C. D. Burns. 278p Macmillan '25
Industry and citizenship. H: M. Payne. Textile World 65:3598+ My 31 '24
Industry and property; C.O.P.E.C. commission reports, v. 9. 223p Longmans '24
Industry doing its part in community. B. Chapple. Iron Age 113:1657-8 Je 5 '24
Industry gets the wanderlust. A. P. Dennis. Nation's Business 13:42-4 My '25
Operating and financial ratios characteristic of industries. J. H. Bliss. Management & Adm 7:155-60 F '24
Organization of modern industry. D. S. Kimball. il diag Management & Adm 6:17-24, 165-71, 333-9, 437-43, 599-604, 743-9; 7:45-9 Jl '23-Ja '24
Principles of industrial organization. D. S. Kimball. 3d ed. 436p McGraw-Hill '25
Profits and perils of industrial progress. J: H. Van Deventer. il chart Ind Management 70:129-34, 205-9 S-O '25
Things to tell your men; a series on economics in homespun. G: E. Roberts. Nation's Business 12:16-17 Je; 28-9 Jl; 27-8 Ag; 47-8 S; 64-5+ O; 52+ N; 52+ D '24; 54+ Ja; 52+ F; 60+ Mr; 52+ Ap '25

INDUSTRY—*Continued*
We and our work. J. F. Johnson. 301p Boni & Liveright, New York '23

See also Chemical industries; Clay industries; Dairying; Dye industry; Efficiency, Industrial; Electric industries; Gas industry; Government regulation of industry; Idleness, Industrial; Industrial laws and legislation; Iron industry and trade; Labor and laboring classes; Machinery in industry; Manufactures; Mineral industries; Oil industries; Paper industry and trade; Petroleum industry and trade; Production —Statistics; Rubber industry and trade; Service (in industry); Specialization in industry; Steel industry and trade; Textile industry; Woman—Employment

History

Industrial history. H. B. Smith. 305p Macmillan '23
Industrial society in England towards the end of the eighteenth century. W. Bowden. 343p Macmillan '25
Scientific research and human welfare. F. S. Harris and N. I. Butt. 406p Macmillan '24

INDUSTRY and state
Business and government should be a continuous and public-spirited alliance. W. E. Creed. Elec W 85:1169-70 Je 6 '25
Business men and government. E. Wadsworth. Aera 12:1569-73 Ap '24
Can we trust industry to govern itself? C. M. Wright. Nation's Business 12:13-15 Jl '24
Farm and shop entente aid to nation: abstracts. W: H. Barr. Iron Tr R 75:1359-60 N 20 '24; Iron Age 114:1355-6 N 20 '24
Government aids to business. Published in monthly numbers of Nation's business
Government and the machine tool industry. G: K. Burgess. Am Mach 61:513-15 S 25 '24
Governmental relation to business. H: M. Payne. Manuf Rec 86:93-5 O 2 '24
McMaster losing public's money on gas business, oil company charges. Nat Pet N 16: 20-2 Je 25 '24
More work and less politics; based on an interview with W. A. Appleton. R. Dickinson. Ptr Ink M 9:33-4 S '24
National government and business. R. J: Swenson. 475p Century co. '24
National problems calling for the associated activities of American business organizations. J: W. O'Leary. Econ W n s 30:561-3 O 17 '25
Now industrial life is to have its outline of history; Division of domestic commerce. J. True. Ptr Ink 127:157-8+ Je 26 '24
Political and governmental tendencies in their relation to increased wealth. C. L. King. Ann Am Acad 115:8-20 S '24
Relation of government to industry. M. L. Requa. 241p Macmillan '25
Washington to foster business through 1925. R. Bean. Annalist 25:7 Ja 5 '25
Where the law touches business. C. D. Wilbur. Nation's Business 12:22-3 Je 5 '24
Why not censor industrial ventures? E. H. Fish. Management & Adm 7:77-8 Ja '24

See also Commercial policy; Economic policy; Government ownership; Government regulation of industry; Industrial councils; Labor laws and legislation; Priorities, Industrial; Public utilities; Tariff; United States—Foreign and domestic commerce, Bureau of

INERTIA, Moments of. See Moments of inertia

INFANT feeding
Preparation of dry milk for infant feeding. il Nation's Health 7:114-15 F '25

INFANT mortality
Causes of death in infancy. C: Herrman. Nation's Health 6:517-19+ Ag '24
Economic factors in infant mortality. R. M. Woodbury. Am Statis Assn J 19:137-55 Je '24
Infant mortality and housing conditions in India. Monthly Labor R 21:177-9 Jl '25
Racial factors in relation to neonatal mortality. H. Ford. Nation's Health 6:254-5 Ap '24

INFANT welfare society, Minneapolis
Minneapolis takes care of its mothers and babies. I. V. Hiscock. il Nation's Health 6: 826-8+ D '24

INFANTS

Care and hygiene

Bridgeport, Connecticut, reduces its infant death rate. C. C. Taylor. il Nation's Health 7:595-7 S '25

Clothing

Infants' and children's wear. N. Kneeland. 187p Shaw '25

INFECTION
Prevention of infections from industrial accidents. E. W. Miller. il Nation's Health 6: 694-7 O '24
Vectors of infections; how spread and how controlled. D. M. Griswold. Nation's Health 7:460-2 Jl '25

INFECTIOUS diseases
Forms to be used in communicable disease control. I. V. Hiscock. Nation's Health 6: 313-15+ My '24
New public health. R. L. Wilbur. Nation's Health 7:83-5+ F '25
Relation of animal diseases to public health. J. H. Beard. Nation's Health 6:469-71+ Jl '24

See also Chemotherapy; Immunity; Malaria; Typhoid fever

INFLAMMABLE liquids
Reducing fire hazards from dipping tanks. il Ind Eng 82:497-8 O '24
Safe handling of solvents. A. G. Smith. Chem Age 32:466-8 N '24

See also Flash point; Gasoline; Petroleum

INFLAMMABLE mixtures
Combustion of carbon-monoxide mixtures. J. H. Crowe and A. H. Newey. Philos Mag 6th ser 49:1112-31 Je '25
La combustion vive, détonante et non détonante, des milieux gazeux. F. Schwers. Chimie & Ind 12:983-92; 13:14-23 D '24-Ja '25
Effect of nitrogen and carbon dioxide dilutions on explosion limits of acetone and methanol and their mixtures. H. Crouch and E. K. Carver. diag Ind & Eng Chem 17:641-2 Je '25
Explosibility of hydrogen sulfide in air. G. W. Jones, W. P. Yant and L. B. Berger. diag Ind & Eng Chem 16:353-5 Ap '24
Explosion of acetylene and nitrogen; spectra of explosions of gases containing hydrogen, carbon, nitrogen, and oxygen. W: E: Garner and S. W. Saunders. Chem Soc J 127:77-82 Ja '25
Explosion of ammonia with electrolytic gas and oxygen. J. R. Partington and A. J: Prince. Chem Soc J 125:2018-25 O '24
Gaseous combustion at high pressures. W. A. Bone, D. M. Newitt and D. T. A. Townend. Gas J (Lond) 166:600-3, 747-50, 848-50 My 28, Je 11-18 '24
Ignition of gases; discussion. Gas J (Lond) 171:547-9 S 2 '25
Ignition of gases: ignition by a heated surface—mixtures of the paraffins with air. W. Mason and R: V. Wheeler. Chem Soc J 125: 1869-75 S '24
Ignition of gases; ignition by inductance sparks—mixtures of the paraffins with air. R: V. Wheeler. diags Chem Soc J 127:14-26 Ja '25
Ignition of gases; ignition by the impulsive electrical discharge—mixtures of the paraffins with air. R: V. Wheeler. Chem Soc J 125:1858-69 S '24
Limits for the propagation of flame in inflammable gas—air mixtures; mixtures of air and one gas at the ordinary temperature and pressure. A. G. White. Chem Soc J 125:2387-96 N '24

INFLAMMABLE mixtures—*Continued*
Limits for the propagation of flame in inflammable gas-air mixtures; mixtures of more than one gas and air. A. G. White. Chem Soc J 127:48-61 Ja '25
Limits for the propagation of flame in inflammable gas-air mixtures; the effect of temperature on the limits. A. G. White. Chem Soc J 127:672-84 Mr '25
Limits of inflammability, and the control of gas mixtures. L. Caussé. diag Gas J (Lond) 171:394-5 Ag 12 '25
Rapid admixture of hot combustible gases with air. F. M. Cray and W: E: Garner. diags Chem Soc J 125:57-69 Ja '24
See also Dust explosions; Explosions; Flame propagation; Flash point

Bibliography
Bibliography on flammable and explosive limits of common combustible gases and vapors. Ind & Eng Chem 16:355 Ap '24

INFLATION (finance)
Are we going to have inflation? G: E. Putman. Am Bankers Assn J 18:309-11 N '25; Same. Econ W n s 30:724-6 N 21 '25
Currency depreciation and stock prices. Moody's Inv Serv 16:249-52 Je 19 '24
Federal reserve system in its relation to inflation and deflation. S: W. Anderson. Harvard Business R 2:201-6 Ja '24
Inflation and deflation in Sweden during and since the war. Econ W n s 27:441-3 Mr 29 '24
Inflation dangers. Moody's Inv Serv 16:381-2 O 16 '24
Reserve system inflation power needs check. H. P. Willis. Annalist 25:675-6 My 18 '25
Some after-effects of inflation. Economist 101: 370-1 S 5 '25
Why monetary inflation cannot continue indefinitely; an explanation of the passing of the mark. W. I. King. Annalist 22:629+ N 12 '23
See also Money

INFLUENCE machines. See Electric machines

INFORMATION service
Birth of a notion; the "phone-us" company. Comm & Fin 13:380 F 20 '24
Foreign bureaus of information in New York city. R. Gossage. Supplement to Special Libraries July, 1925
Handbook of commercial information services. 97p Special libraries assn., Washington '24
More information booth work. Special Lib 15: 38 F '24
Technology group of S. L. A. announces sponsorships. Special Lib 15:14 Ja '24
See also Exhibitions—Information service; Foreign language information service; Libraries, Special; National business and financial library; National research council; National safety council; Reference books

INFORMATION service, Government
How inquiries from business men are handled by the government. Ptr Ink 126:81-2+ Mr 6 '24

INFRA-RED rays
Invisible radiation from illuminants; a review of the facts with regard to ultra-violet and infra-red rays. J. W. Ryde. Elec R (Lond) 96:884-6 Je 5 '25
See also Spectrum, Infra red

INFUSORIAL earth. See Diatomaceous earth

INGERSOLL-Rand company
Spending the most money to keep old friends; instruction literature. J. H. Collins. Ptr Ink M 10:27-8+ F '25

INGOT manipulators. See Manipulators, Ingot

INGOT strippers
Neue stripper. A. Kessner and A. Ebinghaus. il diags Stahl & Eisen 43:1567-9 D 20 '23

INGOTS, Steel. See Steel ingots

INHERITANCE tax
Argument in favor of the repeal of the federal estate tax. F. W. Denio. Econ W n s 30:665-7 N 7 '25
California inheritance tax law—states need not provide for deduction of federal inheritance tax. Comm & Fin Chr 120:1971-2 Ap 18 '25
Community property in California. L. H. Roseberry. Am Bankers Assn J 18:83-4 Ag '25
Conference on death taxes. Bradstreet's 53: 145 F 28 '25
Death duties. P. Dexter. Comm & Fin 14:545-7 Mr 25 '25
Death taxes in the United States; a study in confusion. J. Bond, jr. Econ W n s 29: 233-4 F 14 '25
Decision of the Supreme court in the Frick estate tax case. Econ W n s 29:708-9 My 16 '25
Effect of recent court decisions on the taxation of non-resident decedent estates. A. Handy. Econ W n s 28:485-7 O 4 '24
Estate taxes. Nat City Bank p 83-4 My '25
Frick case. Comm M 7:11-13 Jl '25
Harmful economic effects of excessive federal estate taxes. A. W. Mellon. Econ W n s 27:521-2 Ap 12 '24
How inheritance taxes affect the investor. Bankers M 110:334-6 F '25
How inheritance taxes may confiscate estates. F. Carter, jr. Am Bankers Assn J 17:118-19 Ag '24
How much of your estate are taxes going to take? W. E: Lagerquist. System 48:134-5+ Ag '25
Inheritance tax data. Spectator 113:20-1 D 11 '24
Inheritance tax law of Pennsylvania. Comm & Fin Chr 120:2893 Je 6 '25
Inheritance taxation. L. G. Simon. 331p Harper '25
Inheritance taxation burden and remedies suggested. Am Bankers Assn J 18:245-6+ O '25
Inheritance taxes, a heavy impost little understood. M. L. Seidman. Annalist 25:223+, 350 F 9, Mr 9 '25
Life insurance as a method of safeguarding charitable bequests against inheritance taxation. E. P. Huttinger. Econ W n s 29:21-3 Ja 3 '25
Methods of relief from the unjust collection of inheritance taxes by different states. F. F. Thomassen. Econ W n s 27:305-6 Mr 1 '24
National tax reform. E: A. Bradford. Annalist 25:286 F 23 '25
New means for the more rapid extinction of the British national debt. G. de F. Gerbino. Econ J 35:233-44 Je '25
New York chamber of commerce urges repeal of federal inheritance tax. Comm & Fin Chr 120:3020 Je 13 '25
Pennsylvania bankers association urges repeal of Federal inheritance tax. Comm & Fin Chr 120:3147 Je 20 '25
Prentice-Hall inheritance tax service, 1925-1927. 2v. Prentice-Hall '25
President Coolidge urges retirement of federal government from inheritance tax field. Comm & Fin Chr 120:1041-2 F 28 '25; Same. Econ W n s 29:305-6 F 28 '25
Prevention of multiple taxation under the Succession duty acts of the provinces of Canada. R. P. Jellett. Econ W n s 29:341-2 Mr 7 '25
Quicksand of inheritance taxes. Comm M 6: 27-30 D '24; Same. Econ W n s 28:845-6 D 13 '24
Readjustment of income tax rates and the repeal of the estate and gift tax. A. W. Mellon. Econ W n s 30:594-5 O 24 '25
Red book of inheritance tax laws. 48p T. Newcomb, Brooklyn, N.Y. '25
Resolutions adopted at the National tax association conference on estate and inheritance taxation. Econ W n s 29:342-3 Mr 7 '25; Same, with views of Prof. Seligman and others. Comm & Fin Chr 120:1043-5 F 28 '25

INHERITANCE tax—*Continued*
Right of a state to impose an inheritance tax on the transfer of stock of a foreign corporation. A. Handy. Econ W n s 27:701-2 My 17 '24
Social significance of the inheritance tax. E. Rignano. 128p Knopf '24
Some effects of excessive tax rates. C: S. Dewey. I B A of A 13:176-9 Mr 31 '25; Same. Am Bankers Assn J 17:615-16 Ap '25; Same. Econ W n s 29:665-6 My 9 '25
Suggested remedies for inheritance and estate tax burdens affecting fiduciary relations; abstracts. R. C. Osgood. Econ W n s 30:197-9 Ag 8 '25; Comm & Fin Chr 121:541-2 Ag 1 '25
Tax laws of the various states. I B A of A 12:231-43 Mr 31 '24
Taxation of incomes, corporations and inheritances in Canada, Great Britain, France, Italy, Belgium, and Spain. Comp. under direction of H. H. B. Meyer, director Legislative reference division, Library of Congress. (68th Cong., 2d sess. Senate. Doc. 186) 277p Govt. ptg. off., Washington '25
Taxation of inheritances. Index p 11-12 Mr '25
Taxing capital out of existence. G. B. Winston. Am Bankers Assn J 17:299-300+ N '24; Same. Econ W n s 28:737-9 N 22 '24
Two opposing views of inheritance tax. Nation's Business 13:61 Ap '25
Views of Assistant secretary Wadsworth on inheritance tax. Comm & Fin Chr 120:1045 F 28 '25
Why try to save? A. C. Laut. il Nation's Business 13:15-17 O '25
You die, who gets your money? E: A. Woods. Nation's Business 13:58+ Ap '25

Accounting

Inheritance tax computations. F. L. Morton. 78p Wose & Coigne, Inc., 136 Liberty St N.Y. '23

INITIAL letters. See Typesetting

INJECTORS
How an injector works. il Power 61:1044; 62: 29 Je 30-Jl 7 '25
How efficient is an injector? Power 59:838 My 20 '24
Thermal efficiency of an injector. Sibley J 38: 13-15 Ja '24

Manufacture

Special tooling on railroad injector work. S. L. Kneass. il Am Mach 62:499-501 Mr 26 '25

Repair

Graphic charting of injector repairs. charts Ry R 75:992-3 D 20 '24

INJUNCTIONS
Constitutionality of Illinois statute limiting issue of injunctions in labor disputes. Monthly Labor R 21:818 O '25
United States Supreme court rules that Federal courts cannot deny jury trials in contempt cases in labor disputes. Comm & Fin Chr 119:1920-1 O 25 '24
Violations of injunctions in labor disputes. Monthly Labor R 18:163-4 Ja '24

INJURIES

See Accidents, Industrial; Manufacturers' liability; Workmen's compensation

INK
Ageing of inks as related to good printing. A. B. Carty. Inland Ptr 75:754 Ag '25
How to use metallic inks. Inland Ptr 76:71 O '25

See also Color printing; Typewriter ribbons—Specifications

Bibliography

Chemistry and manufacture of writing and printing inks. W: B. Gamble. N Y Pub Lib Bul 29:579-91, 625-77, 706-21 Ag-O '25

Specifications

United States government master specification for black waterproof drawing ink. U S Bur Stand Circ 196:1-3 '25
United States government master specification for indelible marking ink for fabrics. U S Bur Stand Circ 197:1-4 '25; Same. Textile Col 47:170 Mr '25
United States government master specification for record and copying ink. U S Bur Stand Circ 182:1-4 '24
United States government master specification for writing ink. U S Bur Stand Circ 183:1-4 '24
United States government master specifications for stamp-pad ink. U S Bur Stand Circ 185:1-3 '24

INLAND navigation. See Waterways

INNS. See Hotels; Restaurants

INQUIRIES. See Advertising—Inquiries; Follow-up systems

INSECTICIDE and disinfectant manufacturers' association
Annual meeting, 10th, New York, Dec. 10-11. Oil Paint & Drug Rep 104:44c+, D 17 '23
Annual convention, 11th, New York, Dec. 15-16. Oil Paint & Drug Rep 106:20+ D 22 '24
Disinfectant makers adopt code of ethics. Oil Paint & Drug Rep 107:22 Je 22 '25
Ethics in the insecticide and disinfectant industry. Chem Age 33:10 Ja '25

INSECTICIDES
Chemical, physical, and insecticidal properties of arsenicals. F. C. Cook and N. E. McIndoo. U S Agric Bul 1147:1-57 [bibliog. p. 55-7] '23; Abstract. Chem Age (Lond) 11: 470 N 8 '24
Chemistry in its relation to agriculture. E. Holmes. Chem Age (Lond) 12:309 Mr 28 '25
Insecticide makers agree to simplify; number of package containers is cut 50 per cent. Oil Paint & Drug Rep 108:21+ N 2 '25
Insecticide sprays. Chemicals 24:6 Jl 20 '25
Insecticides with petroleum base used to kill boll weevil. P. Wagner. Nat Pet N 17:117-18 Ap 1 '25
Manufacture of insecticides. C. W. Drury. and C. W. Simmons. Can Chem & Met 9: 179-82 Ag '25
Optimism needed in insecticides. R. N. Chipman. Chem & Met Eng 32:87 Ja 19 '25
Recent progress in insecticides and fungicides. C. C. McDonnell. Ind & Eng Chem 16:1007-12 [bibliog. p. 1011-12] O '24
Recently-developed insecticides; their chemistry and specific action. F. A. Herman. bibliog Can Chem & Met 9:134-6 Je '25
Sodium fluosilicate as an insecticide. S. Marcovitch. Ind & Eng Chem 16:1249 D '24
Sodium naphthenate for miscible oil insecticides. Chem Age 32:395 S '24
Some aspects of research on insecticides and fungicides. C. M. Smith. Soc Chem Ind J (Chem & Ind) 44:417-20 Ap 24 '25
Some chemical problems of the insecticide industry. J. E. Dickerson. Ind & Eng Chem 16:1013-15 O '24
Some observations on insecticide manufacture. R. N. Chipman. Chem Age 32:487-8 D '24; Same abr. Soc Chem Ind J (Chem & Ind) 44:421-2 Ap 24 '25
Toxicity of nicotine as an insecticide and parasiticide. E. R. deOng. Ind & Eng Chem 16:1275-7 D '24

See also Calcium arsenate; Carbon disulfide; Fumigation; Hydrocyanic acid; Lead arsenates; Paris green; Spraying materials

Specifications

Federal standards for insecticides. H. W. Ambruster. Chemicals 24:6-7 S 21 '25
Insecticide, fungicide manufacturers discuss standards proposed by U.S. Oil Paint & Drug Rep 108:21 Ag 31 '25

Transportation

A.I. & F.M.A. is told about shipping rules. Oil Paint & Drug Rep 107:32+ Je 22 '25
Chemical association submits traffic rules; manufacturers offer suggestions for packing of poisonous insecticides. Oil Paint & Drug Rep 106:19 S 8 '24

INSECTS
Insect parasites of insects. S. F. Aaron. il Sci Am 133:184-5 S '25
Jewels in the eyes of insects. S. F. Aaron. il Sci Am 132:32-3 Ja '25
Smell organs of insects. S. F. Aaron. il Sci Am 132:248-9 Ap '25
Uncommon views of common insects; illustrations. Sci Am 130:179 Mr '24
What are the sounds that insects hear? S. F. Aaron. il Sci Am 132:390-1 Je '25
See also Ants; Borers; Chironomidae; Wasps

INSECTS, Fossil
Kansas Permian insects. C. O. Dunbar. diags Am J Sci 5th ser 7:171-208, pl 1-2; Bibliography. 208-9 Mr '24
Kansas Permian insects; the new order protohymenoptera. R. J. Tillyard. il diags Am J Sci 5th ser 8:111-22, pl 4 Ag '24
Kansas Permian insects; the order paleodictyoptera. R. J. Tillyard. diags Am J Sci 5th ser 9:328-35 Ap '25
Kansas Permian insects; the orders protodonata and odonata. R. J. Tillyard. il diags Am J Sci 5th ser 10:41-73 Jl '25
Rhaetic crane flies from South America. G. R. Wieland. bibliog il Am J Sci 5th ser 9: 21-8 pl 1 Ja '25

INSECTS, Injurious and beneficial
Experiences with micro-organisms and insects in textile work. A. K. Johnson. il Am Dyestuff Rep 14:10-13; Discussion. 15-17 Ja 12 '25
Mysterious insects bore into roll of paper. il Paper Tr J 79:31 Ag 28 '24
See also Boll weevils; Chinch bugs; Cockroaches; Insecticides; Locusts; Mosquitoes; Moths; Termites

INSOMNIA
Insomnia recognized as an urban disease. Nation's Health 7:113-14 F '25

INSPECTION
Card system to help the inspector. K. H. Crumrine. diag Am Mach 61:349-50 Ag 28 '24; Discussion. J. R. Ridlon. 61:726 N 6 '24
Few high points on the inspection of processed material. C. S. Stark. Soc Auto Eng J 15:156-8 Ag '24
How they took the five steps to successful inspection. W. E. Irish. Factory 34:417-19+ Mr '25
Influence of numerous handlings on inspection cost. A. H. Frauenthal. il diag Soc Auto Eng J 15:158-60 Ag '24
Inspection methods. E. Buckingham. Mech Eng 47:55-6 Ja '25
Inspection methods. C. J. Ross. il Soc Auto Eng J 17:376-84 O '25; Same cond. Am Mach 63:539-43 O 1 '25
Inspection methods and gages used in building radial drilling machines. il Am Mach 62: 655 Ap 23 '25
Inspection methods symposium. Soc Auto Eng J 15:437-9+ N '24
Inspection routine and methods of controlling industrial lubrication. K. Richards. il Ind Eng 82:368-72+ Ag '24
Inspection system in a lathe building plant. H. S. Riggs. il Mach 30:835-41 Jl '24
Is your inspection policy preventive or corrective? J: Younger. Am Mach 62:701-2 Ap 30 '25
It counts, packs, and helps inspect. C. Hoskins. il Factory 33:345 S '24
Keeping track of quality. A. H. Frauenthal. il Am Mach 62:7-11 Ja 1 '25
Maintaining high-quality production. C. J. Jones. Soc Auto Eng J 15:160-2 Ag '24
Measurement of the quality of product. G. S. Radford. Mech Eng 46:546-7; Discussion. 547 S '24
Organization of inspection and maintenance. F: A. Waldron. Management & Adm 7: 295-7 Mr '24
Position of the inspection department in an organization manufacturing electrical goods. plan Harvard Business R 3:238-40 Ja '25
Production equipment for inspection. W. E. Irish. diags Am Mach 63:735-7 N 5 '25
Some aspects of airplane inspection. J. J. Feeley. il Soc Auto Eng J 17:441-7 N '25; Abstract. Am Mach 63:524f-g S 24 '25
Some psychological aspects of engineering inspection. F. H. Mann. Elec R (Lond) 95: 989-90 D 26 '24
Three more steps to successful inspection. W. E. Irish. il Factory 34:772-3 My '25
See also Asphalt plants—Inspection; Bank examination; Boiler inspection; Building inspection; Car inspection; Coal inspection; Electric inspection; Electric lines—Inspection; Elevators—Inspection; Elevators, Electric—Inspection; Factory inspection; Farm produce—Inspection; Gages—Inspection; Gear cutting machines—Inspection; Highway inspection; Locomotives—Inspection; Mine inspection; Power plants—Inspection; Sampling; Sprinkling systems—Inspection; Steel castings — Inspection; Street railroads—Inspection; Yarn—Inspection

INSPECTION cars. See Cars, Inspection

INSTALMENT plan
Are your goods sold on instalments? H. A. Haring. Ptr Ink M 10:71-2+ My '25
Arguments for and against installment selling before National business conference at Babson Park. H. P. Sheets; W: N. Taft; S. G. Rosson. Comm & Fin Chr 121:1635-7 O 3 '25
Bank loans to finance the installment buyer. B. Davenport. Am Bankers Assn J 18:312+ N '25; Same. Comm & Fin Chr 121:2476-7 N 21 '25
Credit problem solved. C: W. Fletcher. Credit M 26:21-2 N '24; Same. Econ W n s 28:669-70 N 8 '24
Danger in new down payment plan. Automotive Ind 53:73 Jl 9 '25
Defense of $1 down. H. L. Ogg. Ptr Ink 132: 73-4+ Ag 27 '25
Depreciation, liquidation and instalment selling. Ptr Ink 131:69-70 Je 4 '25
Easy payments as summer slump antidote. J: S. King. Ptr Ink 128:138+ Jl 10 '24
Evil of easy terms or long-time payments. C: H. Cochrane. Inland Ptr 75:760-1 Ag '25
Financing plan for sheet metal men. Sheet Metal Worker 15:939-40 Ja 2 '25
Ford tries new purchase plan. Automotive Ind 52:715, 760 Ap 16-23 '25
Germany adopts time payment plan to bolster car sales. Automotive Ind 53:44-6 Jl 9 '25
Growth of installment buying. D. R. Young. Am Bankers Assn J 17:541-3 Mr '25
High tide of motor car buying alarms other trades. J. Dalton. Automotive Ind 49:1255-7 D 20 '23
How manufacturers are financing retail instalment sales. R. Cole. Ptr Ink 131:3-4+ My 14; 81-2+ My 21 '25
Installment buying is discussed by credit men. Automotive Ind 53:671-2 O 15 '25
Installment hounds have their day. E. Dakin. Comm & Fin 14:1183-4 Je 17 '25
Installment plan enters the building field. il Brick & Clay Rec 66:505-6 Mr 31 '25
Instalment selling finds some of its limits. Comm & Fin 14:1446 Jl 29 '25
Instalment selling on a "no questions asked" basis. Ptr Ink 131:25-6 Je 4 '25
Instalment selling on trial in the paint industry. R. Cole. Ptr Ink 132:105-8 Jl 16 '25
Installments have a safety line. J. H. Tregoe. Nation's Business 13:101 My '25
Midas gold. 100p Butterick pub. co., New York '25
Partial payment plan for plumbing or heating contractors. Sanitary & Heat Eng 104: 113, 248-9, 277 Ag 21, O 16-30 '25
Partial payments; shall sanitary and heating contractors adopt the "time payment plan"? R. G. Bookhout. Sanitary & Heat Eng 103: 396-7, 434-5; 104:36-8, 75+, 139-40 Je 12-26, Jl 24-Ag 7, S 4 '25; Excerpts. Sheet Metal Worker 16:518-19, 586-7, 622-3, 651-2+ Ag 14, S 11-O 9 '25

INSTALMENT plan—*Continued*
Rising tide of time-payments. J. True. Ptr Ink 126:3-4+ F 28 '24
Sales on credit. Moody's Inv Serv 17:343 O 15 '25
Save the surface takes deferred payment stand. Oil Paint & Drug Rep 108:21+ S 21 '25
Some aspects of installment sales. J. H. Moore. Oil Paint & Drug Rep 106:55-6 O 29 '24
Time payment plan is finally applied to building repair work. Bldg Age 47:174+ My '25
Time-payment plan stimulating extra advertising. M. Hastings, jr. Ptr Ink 130:57-8 Mr 19 '25
Time-payment plan to double paint sales by 1926. Ptr Ink 130:56 Ja 29 '25
Time sales situation—what the finance companies, bankers and car manufacturers have to say about it. N. G. Shidle. Automotive Ind 53:161-4 Jl 30 '25
We use collections as a sales tool. J: M. Smyth. il System 48:557-9 N '25
Where the dealer gets off on time payment financing. R. Cole. Ptr Ink 131:81-2+ My 28 '25

See also Equipment trusts

INSTITUTE for research in land economics and public utilities
Preventing loans on over-valued land. R: T. Ely. Bankers M 108:199-202 F '24

INSTITUTE of American meat packers
An industry organizes for progress. Chem & Met Eng 30:341-3 Mr 3 '24
New jobs cut out for trade associations; Institute of American meat packers blazes trail. R. H. Barker. Ptr Ink 129:145-6+ D 4 '24
Packing industry goes to school. W: W. Woods. il Nation's Business 13:46+ N '25

INSTITUTE of banking
Great waste of personal income; activities of organized banking to educate. W: E. Knox. Am Bankers Assn J 17:733-4+ Je '25

INSTITUTE of British foundrymen
Annual convention, 21st, Newcastle, June 4-6. Iron Tr R 74:1704+ Je 26 '24; Foundry 52: 527-8 Jl 1 '24
Convention, 22d, Glasgow, June 10-12. Iron Tr R 76:1671-3 Je 25 '25; Foundry 53:545 Jl 1 '25

INSTITUTE of chemistry of Great Britain
Institute of chemistry of Great Britain. Chem Age 32:197-8 Ap '24

INSTITUTE of cost and works accountants
Annual costing conference, 3d, London, July 25. Elec R (Lond) 95:305-6 Ag 22 '24

INSTITUTE of metals
Annual general meeting, 16th, London, March 12. Engineering 117:344-6, 359-61 Mr 14-21 '24; Engineer 137:290-1, 303-4, 331-2 Mr 14-28 '24; Brass W 20:142-5 Ap '24; Metal Ind 22:143-5 Ap '24
Annual general meeting, 17th, London, Mar. 11. Engineer 139:294, 324-6 Mr 13-20 '25; Engineering 119:329-30, 341-3 Mr 13-20 '25; Iron Age 115:895+ Mr 26 '25; Brass W 21: 125-7 Ap '25; Elec R (Lond) 96:554-5 Ap 3 '25; Metal Ind 23:145-7 Ap '25
Autumn meeting, London, Sept. 8-11. Engineer 138:293-4, 326-7 S 12-19 '24; Engineering 118:378-80, 408-9 S 12-19 '24; Brass W 20:350-3 O '24; Elec R (Lond) 95:537-8 O 10 '24; Metal Ind 22:399-401, 480 O, D '24
Autumn meeting, Glasgow, Sept. 1-3. Engineering 120:297-9, 330-2 S 4-11 '25; Engineer 140:244-5, 260-1 S 4-11 '25; Brass W 21:359-61 O '25; Metal Ind 23:413-14 O '25

INSTITUTE of metals, American. See American institute of mining and metallurgical engineers

INSTITUTE of politics, Williams college, 1925
Williamstown institute. Comm & Fin Chr 121: 764-6; 899-900, 1305-6 Ag 15-22, S 12 '25

INSTITUTE of transport
Conference, Wembley, Sept. 19. Engineer 138: 344 S 26 '24
Congress, London, May 13-16. Engineering 119:610-11, 645-6, 663-5 My 15-29 '25
Summer congress, Bristol, May 29-31. Engineering 117:729 Je 6 '24

INSTITUTION of automobile engineers
Value of the institution to its graduate members. Automobile Eng 15:298-9 S '25

INSTITUTION of chemical engineers
Annual meeting, 2d, London, July 16. Gas J (Lond) 167:382-3 Jl 23 '24
Annual general meeting, Leeds. Chem Age (Lond) 13:97-100 Jl 25 '25

INSTITUTION of civil engineers
Conversazione, Westminster, June 17. Engineer 139:684-5 Je 19 '25

INSTITUTION of electrical engineers
Annual meeting, London, May 7; reports. Elec R (Lond) 96:793-4 My 15 '25; Electrician 94:568-9 My 15 '25
Annual report of the council for 1923-24. Inst E E J 62:526-52 Je '24
Annual report of the council for the year 1924-1925. Inst E E J 63:571-87 Je '25
Presentation of the Faraday medal to Dr S. Z. de Ferranti. Elec R (Lond) 94:730-1 My 2 '24; Electrician 92:540-1 My 2 '24
Summer meeting, Birmingham, Eng., June 9-12. Elec R (Lond) 96:939-40, 964-5, 979-83, 1006-8 Je 12-26 '25; Electrician 94:680-3, 706 Je 12-19 '25; Engineering 119:741-3, 772-5 Je 12-19 '25; Engineer 139:654, 660-1, 677-80 Je 12-19 '25
Visit of overseas electrical engineers. Elec R (Lond) 95:119, 132-3 Jl 18-25 '24

INSTITUTION of gas engineers
Annual general meeting, London, June 24-26. Engineering 117:834-5; 118:23 Je 27-Jl 4 '24; Gas J (Lond) 167:61-148, 183-92 Jl 2 '24
Annual general meeting, London, June 9-11. Engineering 119:740-1, 757-9 Je 12-19 '25; Gas J (Lond) 170:843-966; 171:sup3-52 Je 17, Jl 22 '25
Annual report of the council during the year 1923-24. Gas J (Lond) 166:738-40 Je 11 '24
Annual report of the council for the year 1924-25. Gas J (Lond) 170:662-4 Je 3 '25
Council meeting, Dec. 8. Gas J (Lond) 168: 899-900 D 31 '24

INSTITUTION of mechanical engineers
Annual general meeting, 78th, London, Feb. 20. Engineering 119:267-9 F 27 '25; Engineer 139:236-7 F 27 '25
Summer meeting, Newcastle, July 7-10. Engineer 140:40-1 Jl 10 '25; Engineering 120: 51-3, 82 Jl 10-17 '25

INSTITUTION of mining engineers
General meeting, Cardiff, June 16-18. Engineering 119:761-3 Je 19 '25

INSTITUTION of naval architects
Annual meeting, London, April 9-11. Engineer 137:381-2, 407-10, 450, 474-5+ Ap 11-My 2 '24; Engineering 117:471-3, 486-9, 515-17 Ap 11-25 '24
Annual general meeting, London, April 1-3. Engineering 119:424-6, 443-6, 470-3 Ap 3-17 '25; Engineer 139:376-7, 379, 401-3, 429-31 Ap 3-17 '25
Joint summer meeting, London, June 25-27. Engineer 137:711-13; 138:18-20 Je 27-Jl 4 '24; Engineering 117:831-4; 118:25-6 Je 27-Jl 4 '24

INSTITUTION of petroleum technologists
History of the Institution from the time of its conception. G: Sell. Inst Pet Tech J 10: 677-81 S '24

INSTITUTION of public lighting engineers and superintendents
Annual conference, 1st, London, Feb. 15. Electrician 92:241 F 22 '24; Gas J (Lond) 165: 430-2 F 20 '24
Annual conference, 2d, Leeds, Sept. 14-16. Elec R (Lond) 97:516, 549-50, 596-8 S 25-O 9 '25; Gas J (Lond) 171:742-54 S 23 '25

INSTITUTION of public lighting engineers and superintendents—*Continued*
Annual general meeting, 1st, Glasgow, Sept. 16-18. Illum Engr 17:134-6 Ag '24; Gas J (Lond) 167:931-4; 168:35-7 S 24-O 1 '24

INSTITUTIONAL management

See also Hospitals—Management

Study and teaching

Institutional management; training at Antioch college. J. E. Turner. il Nation's Health 6:404-7 Je '24

INSTITUTIONS, Public
Cost of cleanliness in Indiana state institutions. Nation's Health 7:709 O '25
Group heating of institutions and colleges. A. S. Kellogg; R. T. Kern. Am Soc Heat & V E J 29:629-46 N '23
Overlooked opportunities in the big institutional field. il Sales Management 9:505-6+ O 17 '25
Peculiarities in selling to state institutions. Ptr Ink 129:155+ N 27 '24
Water and sewerage construction at state institutions by Maryland Department of health. G: L. Hall. il Eng N 93:490-5 S 25 '24

See also Homes, Institutional; Hospitals; Prisons

Finance

Developing budgetary control in relation to the state institutions of Pennsylvania. C. W. Hunt. Ann Am Acad 113:120-8 My '24
Earnings of public welfare institutions in relation to the economies of administration and physical, mental and social rehabilitation of the patients. E. C. Potter. Ann Am Acad 113:135-46 My '24
Institutional investing. J: Moody. Forbes 16: 173-5 My 15 '25
Supervision of the budgets of state educational institutions. F. B. Haas. Ann Am Acad 113:112-19; Bibliography. 119-20 My '24

INSTRUCTION in use of product
Farmer instruction books that advertise as well as instruct. R. Yarnell. Ptr Ink M 9: 58+ O '24
Getting customers to use the product correctly. Ptr Ink M 8:130 Ap '24
Nine ways to get buyers to use product correctly. J: A. Murphy. Ptr Ink 127:3-4+ Ap 10 '24

See also Package goods—Directions for use; Service (in industry)

INSTRUMENTS, Aeronautic. See Aeronautic instruments

INSTRUMENTS, Drawing. See Drawing instruments

INSTRUMENTS, Electric. See Electric instruments

INSTRUMENTS, Measuring. See Measuring instruments

INSTRUMENTS, Musical. See Musical instruments

INSTRUMENTS, Negotiable. See Negotiable instruments

INSTRUMENTS, Optical. See Optical instruments

INSTRUMENTS, Recording. See Recording instruments

INSTRUMENTS, Scientific. See Scientific apparatus and instruments

INSTRUMENTS, Surgical. See Surgical instruments and apparatus

INSTRUMENTS, Surveying. See Surveying instruments

INSULATING oil. See Oil, Insulating

INSULATING tape
Buying tape on specifications. W. H. Bieringer. Elec W 83:646-7 Mr 29 '24

INSULATING yarn
Proposed tentative specifications for tolerances and test methods for electrical cotton yarns. Textile World 65:4283+ Je 28 '24

INSULATION (electric)
Application of high-tension insulators. T. B. Fleming. Elec J 21:217-18 My '24
Applying insulating varnishes. H. L. Hazeltine. il Ind Eng 82:183-6+ Ap '24
Die bedeutung des überwachungszeichens für isolierpressmaterial. H. Schiff. Elektrotech Zeit 46:1585-6 O 15 '25
Berechnung der überschlagswege von kugelfunkenstrecken in luft und beschreibung einer neuen durchführung. W. Kehse. diags Elektrotech Zeit 45:201-3 Mr 13 '24
Best ways to use insulating varnish. H. L. Hazeltine. il Ind Eng 82:284-7+ Je '24
Causes of breakdown of dielectrics. Elec W 84:1294-5; 83:351 D 20 '24, F 14 '25
Chemical problems in insulating varnishes. H. C. P. Weber. Ind & Eng Chem 17:11-14 Ja '25
Cleaning dirty insulators. diag Elec R (Lond) 94:739-40 My 9 '24
Composition and aging of insulating varnishes. H. C. P. Weber. Am Electrochem Soc Trans v 44 (preprint 16):167-70 S '23; Same. Elec W 83:96 Ja 12 '24; Abstract. Ind Eng 83:204 Ap '25
Condenser-type bushing insulators. G. L. E. Metz. diags Elec R (Lond) 93:304-5 N 30 '23
Conductors with varnished-cambric insulation can carry more current. F. A. Westbrook. Ind Eng 82:348 Jl '24
Development of a suspension-type insulator. H. B. Smith. il diags Am Inst E E J 43:689-96 Ag '24; Discussion. 44:412-18 Ap '25
Dielectric absorption in fibrous insulating materials; use of lag meter. R. E. Marbury and E. R. Le Ghait. il diags Elec J 22:526-34, 605-10 N-D '25
Dielectric strength of insulation. V. M. Montsinger. Elec W 84:723-7 O 4 '24
Dielectric-strength-thickness relation in fibrous insulation. F. M. Clark and V. M. Montsinger. Gen Elec R 28:286-90 My '25
Effects of time and frequency on insulation test of transformers. V. M. Montsinger. il diags Am Inst E E J 43:145-55 F '24; Discussion. 43:1186-7 D '24
Die eigenschaften des motorisolators. M. F. Dahl. il diag Elektrotech Zeit 45:1034 S 25 '24
Electrical heating for vacuum impregnating apparatus. C. L. Smith. il Chem & Met Eng 32:818 O '25
Electrical insulating materials. Elec W 82: 1328 D 29 '23
Electrical insulation. W: S. Flight. 107p Pitman '23
Failure of disk insulators on high-tension transmission lines. H. D. Panton. Am Inst E E J 44:474-5 My '25
Französische normen für gummiisolierte leitungsdrähte und bleikabel; abstract. Elektrotech Zeit 45:275-6 Mr 27 '24
Freileitungen an hängeisolatoren. G. Markt. il Elektrotech Zeit 45:620-2 Je 12 '24
Die glimmdurchführung. A. Schwaiger and J. Rebhan. il Elektrotech Zeit 46:729-32 My 14 '25
Hängeisolatoren für fahrleitungen von industriebahnen. F. Bielefeld. il diags Elektrotech Zeit 45:6-8 Ja 3 '24
High-tension transmission lines. E. V. Pannell. diags Engineer 137:328-31 Mr 28 '24
High-voltage dielectric characteristics of gaseous insulators. F. M. Clark. il Gen Elec R 28:158-70 Mr '25
High-voltage insulation. J. L. R. Hayden and C: P. Steinmetz. Am Inst E E J 43:36-43 Ja '24; Discussion. 43:262-3 Mr '24
High-voltage insulator development. K. A. Hawley. il diag Elec W 86:360-2 Ag 22 '25
Hochspannungs-isolationen aus hartpapier. W. Demuth. il Elektrotech Zeit 45:646-9 Je 19 '24
How to check up on insulating varnishes and their solvents. H. L. Hazeltine. il Ind Eng 82:123-6+ Mr '24
Importance of insulation in electrical engineering. L. E. Barringer. il Sibley J 39:316-17 Ap '25

INSULATION (electric)—*Continued*

Improved field coil insulation for large salient-pole machines. R. M. Casper. il Elec J 22: 24-5 Ja '25

Improvements in insulators. E. Rosenthal. diags Elec W 83:575-6 Mr 22 '24; Discussion. A. O. Austin. 83:1007 My 17 '24

Influence of gaseous ionization and spark discharge on fibrous insulating materials and on mica. J. B. Whitehead. bibliog diags Am Inst E E J 42:1297-1304 D '23

Insulating a railway motor armature. il diags Elec J 21:535+ N '24

Insulating copper wire. W. J. Pettis. Metal Ind 23:235 Je '25

Insulation design of anchors and tower supports for 110,000-volt; 4427-foot span over Carquinez Straits. L. J. Corbett. il diags plan Am Inst E E J 42:887-90 S '23; Discussion. 43:258-9 Mr '24

Insulation failure. W. D. Owen. Electrician 94:200-2+ F 20 '25

Insulation failure; the relation between insulation resistance and dielectric strength. F. Fernie. Electrician 91:571 N 23 '23; Discussion. 91:613, 637, 669, 699, 730; 92:15 N 30 '23-Ja 4 '24

Insulation of electrical apparatus. A. P. M. Fleming. Electrician 92:656-7 My 30 '24

Insulation of electrical machinery; abstracts. K. G. Maxwell and A. Monkhouse. Elec R (Lond) 96:715-16 My 1 '25; Electrician 94: 514-15 My 1 '25; Engineering 119:548 My 1 '25; Discussion. Elec R (Lond) 96:716-17 My 1 '25

Insulation of enamelled wire; the Cathala recording apparatus. diags Elec R (Lond) 96:956-7 Je 12 '25

Insulation problems in high-voltage engineering. A. Collins. Electrician 94:599 My 22 '25; Same cond. Elec R (Lond) 96:636-7 Ap 17 '25

Isolatoren. il diags Elektrotech Zeit (special no.) 46:35-42 Mr 1 '25

Isolatoren hoher zugfestigkeit. il diags Elektrotech Zeit 46:1378-81 S 3 '25

Die isoliermaterialien und ihre verwendung in der elektrotechnik. E. J. Staemmler. Elektrotech Zeit (special no.) 45:11-12 Ag 28 '24

Die isolierstoffe der elektrotechnik. H. Schering. 392p [bibliog. p. 107-8, 310] J. Springer, Berlin '24

Kleinhängeisolatoren für mittelspannungsnetze. diags Zeit Ver Deutsch Ing 69:1279-81 O 3 '25

Die lösung des kittproblems im isolatorenbau. E. Rosenthal. Elektrotech Zeit 45:333-4 Ap 10 '24

Machine for spraying laminated core stampings. il diags Engineer 139:58 Ja 9 '25

Manufacture of high-voltage insulators. M. H. Hunt. il Chem & Met Eng 31:728-33 N 10 '24

Manufacturing high voltage insulators on the Pacific coast. A. W. Pride. il J Elec 52: 237-9 Ap 1 '24

Measurement of high values of insulation resistance. J. B. Whitehead. il diag Elec W 82:1007-9 N 17 '23

Mechanical characteristics of transmission lines. L. E. Imlay. il Elec J 22:187-90, 225-9 Ap-My '25

Mechanical electrical construction of modern power transmission lines—insulators for high-voltage lines. C. B. Carlson and W. R. Battey. il diags Am Inst E E J 42:1126-8 N '23; Abstract. Elec W 82:801 O 20 '23; Discussion. Am Inst E E J 43:256-7 Mr '24

Mechanical strength of insulators. A. O. Austin. Elec W 85:1253-5 Je 13 '25

Die messung der spannungsverteilung und des feldlinienverlaufs an isolatorenketten. Regerbis. diags Elektrotech Zeit 46:298-302, 336-41 F 26-Mr 5 '25

Mica and micanite insulation. A. A. C. Dickson. Elec R (Lond) 93:749-50; 94:408-9, 469-70, 688-91; 95:276-8, 312-13 N 16 '23, Mr 14-21, My 2, Ag 22-29 '24

Neuere vorschläge für die isolierung von vollbahn-oberleitungen. E. Altmann. il diags Elektrotech Zeit 45:1022-4 S 25 '24

New 110,000-volt suspension insulator. il diag Elec W 83:1229-30 Je 14 '24

Oil-filled terminals for high voltage cables. E. D. Eby. il diags Am Inst E E J 44: 593-600 Je '25

Permanitgekittete isolatoren. A. Bültemann. Elektrotech Zeit 45:1026-7 S 25 '24

Possibility of flash-overs; abstract. A. O. Austin. Am Inst E E J 43:1146 D '24; Discussion. 44:399-403 Ap '25

Progress in packing insulators. il Elec W 85:999-1000 My 9 '25

Proposed changes in N.E.C. insulator requirements. Elec W 85:1388-9; 86:69 Je 27, Jl 11 '25

Protecting lines against salt fogs and dust. W. R. Van Bokkelen. il diag Elec W 85: 1028-9 My 16 '25

Repeated thermal expansions and contractions; their effect on long armature coil insulations. T. S. Taylor. il diags Am Inst E E J 43:1047-50 N '24

Silit; a new resistance material and its varied applications. il Electrician 95:387-8 O 2 '25

Some notes on insulating papers. A. I. Macnaughton. diags Inst E E J 62:929-31 N '24

Special insulator used for street-light drops. R. A. Hammock. diags Elec W 83:240 F 2 '24

Stossspannung, überschlag und durchschlag bei isolatoren. M. Toepler. diags Elektrotech Zeit 45:1045-50 O 2 '24

Die stromaufnahme von hängisolatoren und ihr einfluss auf die spannungsverteilung an isolatorenketten. E. Marx. il diags Elektrotech Zeit 46:81-7 Ja 15 '25

Study of liquid dielectrics. W. P. Davey and T. A. Wilson. il diags Gen Elec R 28:770-81 N '25 (to be cont)

Suspension insulator for high-voltage systems. D. F. Miner. il diags Elec J 21:560-4 D '24

Suspension insulators; abstract. M. F. Dahl. diag Elec W 84:128 Jl 19 '24

Tauchisolation. A. Eimers. diags Elektrotech Zeit 46:735-6 My 14 '25

Thermal conductivity of solid electric insulators. W. M. Thornton. Philos Mag 6th ser 48:1054-6 D '24

Über die durchschlagsfestigkeit verschiedener glimmersorten bei 50periodigem wechselstrom. F. Grünewald. il Elektrotech Zeit 45:1084-6 O 9 '24

Der V-isolator. W. Weicker. il diags Elektrotech Zeit 45:432-4 My 1 '24

Varnish makers' formulary. E. Perry. Oil Paint & Drug Rep 106:20+ Ag 18; 20+ Ag 25 '24

Verbundisolator. diags Elektrotech Zeit 45: 691 Je 26 '24

Washing dirty insulators with fine water spray. F. W. H. Wheadon. Elec W 86:273 Ag 8 '25

Washing insulators in Chile. Elec W 83:1286 Je 21 '24

Der weitschirmisolator, ein neuer hochspannungs-freileitungsisolator. W. Weicker. il diag Elektrotech Zeit 45:155 F 28 '24

When analyzing coil insulation troubles. H. L. Hazeltine. il Ind Eng 82:333-7+ Jl '24

See also Dielectric losses; Dielectrics; Electric cables; Electric resistance; Electric wiring; Oil, Insulating; Porcelain, Insulating

Testing

Accuracy tests for meggers. H. B. Brooks. diags Elec W 85:973-6 My 9 '25

Appareil enregistreur pour le contrôle de l'isolement des fils émaillés. J. Cathala. diags Génie Civil 86:193 F 21 '25

Checking insulator field tests in the laboratory. C. L. Kasson. il Elec W 84:167-9 Jl 26 '24

Detecting defective insulators by the aislometer. C. E. Bennett. il diag Elec W 83: 711-15 Ap 12 '24

Dielectric properties of fibrous insulation as affected by repeated voltage application. F. M. Clark. Am Inst E E J 44:3-10 Ja '25; Discussion. 44:628-38 Je '25

Dielectric strength of electrical insulating materials. Am Soc T M Pro 24 pt 1:642-50 '24

INSULATION (electric)—Testing—*Continued*

Directions for the study of electrical insulating varnishes, paints and enamel paints. Inst E E J 62:936-40 N '24

Directions for the study of non-ignitable and self-extinguishing boards and mouldings for electrical purposes. diags Inst E E J 63:51-9 D '24

Directions for the study of unvarnished textile fabrics (including cloth, tape, webbing and yarn). diags Inst E E J 63:133-46 Ja '25

Directions for the study of varnish-paper and varnish-fabric boards and tubes. diags Inst E E J 62:160-72 F '24

Directions for the study of varnished cotton cloth (excluding adhesive tape). diags Inst E E J 62:173-7 F '24

Die durchschlagspannung fester isolierstoffe. R. Dieterle. Elektrotech Zeit 46:329-32 Mr 5 '25

Der einfluss der unterlage bei der messung des oberflächenwiderstandes von isolierplatten. R. Dieterle. diags Elektrotech Zeit 45:132-3 F 21 '24

Gaseous ionization in built-up insulation. J. B. Whitehead. Am Inst E E J 43:19-25 Ja '24; Discussion. 43:1165-8 D '24

High-voltage impregnated paper cables. W: A. Del Mar and C. F. Hanson. il Am Inst E E J 43:950-7 O '24; Discussion. 44:390-2 Ap '25

High voltage insulators; an accurate method of commercial testing. A. Collins. diags Electrician 93:438-9 O 17 '24

How to check up the insulating condition of windings in an A. C. machine. il Ind Eng 82:282-3+ Je '24

Importance of sine wave for test voltage. M. F. Dahl. Elec W 83:385-6 F 23 '24; Discussion. H. M. Towne. 83:626 Mr 29 '24

Importance of standards in the evaluation of insulating materials. L. E. Barringer. Gen Elec R 27:736-41 N '24; Excerpts. Elec W 84:950-2 N 1 '24

Insulating varnish tests that are easy to make. H. L. Hazeltine. il Ind Eng 82:381-5+ Ag '24

Insulation testing. R. E. Miles and A. W. Swan. il Electrician 94:60-1+ Ja 16 '25

Insulation tests of slate for electrical use. R. M. Spurck. diags Am Soc T M Pro 23 pt 2:545-54; Discussion. 555-69 '23

Insulation tests of transformers as influenced by time and frequency. F. J. Vogel. diags Am Inst E E J 43:627-33 Jl '24; Discussion. 43:1186-7 D '24

Insulator test specifications. Am Inst E E J 44:300-3 Mr '25

Isolationsmessungen und isolationsmessgeräte. Schumann. il diags Elektrotech Zeit 45: 1116-17 O 16 '24

Leitsätze für untersuchung der isolierkörper von installationsmaterialien. diags Elektrotech Zeit 45:1389-92 D 11 '24

Locating defective insulators. G: A. Iller. il Elec W 86:257-60 Ag 8 '25

Measuring current flow in porcelain insulators. W. A. Fraser and H. W. M. Secord. il Elec W 83:282-4 F 9 '24

Mechanisch-technologische untersuchungen des staatlichen materialprüfungsamtes Berlin-Dahlem an isolierlacken für die elektrotechnik. Elektrotech Zeit 46:395-9 Mr 12 '25

Methoden und apparate zur ermittlung der durchschlagspannung von flüssigen und von vergiessbaren elektrischen isolierstoffen. R. Dieterle. il diags Elektrotech Zeit 45:513-18 My 22 '24

Methods of making dielectric tests on insulation of electrical equipment. A. Fokes. diag Ind Eng 82:103 F '24

Das 1 000 000 v-versuchsfeld der Hermsdorf-Schomburg-isolatoren G.m.b.H. in der porzellanfabrik Freiberg (Sa.). O. Naumann. il diags Elektrotech Zeit 45:177-80 Mr 6 '24

Portable insulator test set. N. P. Carlsen. il Elec W 84:525-6 S 13 '24

Prediction of insulation failures in transmission lines. C. L. Kasson. N E L A Bul 12: 604-5+ S '25

Report of committee D-9 on electrical insulating materials. Am Soc T M Pro 24 pt 1: 626-37 '24

Study of the seasonal variation of radio-frequency phase difference of laminated phenolic insulating materials. J. L. Preston and E. L. Hall. U S Bur Stand Tech Pa 284:225-34 '25

Test results on the performance of suspension insulators in service. C. F. Benham. il Am Inst E E J 42:1257-8 D '23

Testing high-tension impregnated-paper-insulated, lead-covered cable. E. S. Lee. il Am Inst E E J 44:156-63 [bibliog. p. 163-4] F '25; Discussion. 44:528-41 My '25

Testing high-voltage insulators in service; report of Pacific coast electrical association. J Elec 54:437-9 Je 1 '25

Testing insulating varnishes. J: S. Dean. il Elec J 21:394 Ag '24; Same abr. Power Pl Eng 29:95 Ja 1 '25

Testing insulation of generators. R. E. Thompson. diag Power 61:310 F 24 '25

Testing insulation resistance reduces shutdowns. J. S. Murray. il Ind Eng 83:497-8 O '25

Testing porcelain insulators. W. Bucksath. diags Electrician 94:480-1 Ap 24 '25

Über verlustwinkel- und kapazitätsmessungen an porzellan-isolatoren. K. Draeger. il diag Elektrotech Zeit 46:683-8 My 7 '25

Die überschlagspannung von isolatoren bei verschiedenem zeitlichen verlauf der angelegten spannung. E. Marx. il diags Elektrotech Zeit 46:886-9 Je 11 '25

Untersuchungen über die vorgänge bei der elektrischen stossprüfung. L. Binder. diags Elektrotech Zeit 46:137-42 Ja 29 '25

Versuche über die prüfung von isolatoren mit spannungsstössen. E. Marx. il diags Elektrotech Zeit 45:652-4 Je 19 '24

Von der untersuchungsstelle für isoliermaterialien. O. Edelmann. il Elektrotech Zeit 46: 692-4 My 7 '25

What voltage should be used for testing the insulation of motors? Ind Eng 83:206 Ap '25

INSULATION (heat)

Air space as insulator. Concrete 26:69-70 F '25

Balsam-wool insulation for refrigerator cars. il Ry Mech Eng 99:528-9 Ag '25

Blue asbestos as a covering for steam boilers and pipes. Soc Chem Ind J (Chem & Ind) 44:796 Ag 7 '25; Same cond. Eng & Min J 120:926 D 12 '25

Dry Zero new insulating material for refrigerator cars. diag Ry R 76:1095 Je 13 '25; Ry Age 78:1477 Je 13 '25

Economical thickness of insulation in refrigerator cars. A. J. Wood and P. X. Rice. Ry R 73:831-7 D 8 '23; Same. Engineering 117:217-18, 252-3 F 15-22 '24; Same. Refrig Eng 10:357-62 Ap '24; Same cond. Ry Age 75:1023-6 D 1 '23; Discussion. Ry R 74:182-5+ Ja 26 '24; Refrig Eng 10:362-6 Ap '24

Ein erfolgreicher dampfkesselumbau. H. Frank and W. Wutzkowski. diags Zeit Ver Deutsch Ing 69:801-6 Je 13 '25

Facts about furnace insulation. D. Tulloch, jr. Sheet Metal Worker 15:540-1 Ag 1 '24

Fall of pressure and superheat in steam lines. Power 59:1002 Je 17 '24

For better control of industrial heating. J. R. Rogers. il Factory 32:238+ F '24

Fuel economy by insulation. il Cassier's Ind Management 11:197-8 Ap 3 '24

Heat and sound insulation; insulex. diag Sanitary & Heat Eng 104:175 S 18 '25

Heat-insulating efficiencies of some diatomaceous earth products and slag wool. A. T. Green and H. Edwards. bibliog Gas J (Lond) 171:sup23-7 Jl 22 '25

Heat insulation data in the refrigerating field. P. Nicholls. Refrig Eng 10:452-4; Discussion. 454-6 Je '24

Heat insulation of kilns and other high-temperature installations; abstracts. A. T. Green. Gas J (Lond) 170:745 Je 10 '25; Engineering 119:682 My 29 '25

Heat insulator and filter aid; plant of Celite products co., Whitehills, Calif. il Chem & Met Eng 31:973-4 D 22 '24

INSULATION (heat)—*Continued*
Heat savings by insulation. Chem & Met Eng 32:395-6 Mr '25
Heat transmission of insulating materials. 114p [bibliog. p. 95-114] American soc. of refrigerating engineers, New York '24; Abstract of paper by T. S. Taylor. Mech Eng 47:213 Mr '25
Heat transmission through walls and their insulation. Sanitary & Heat Eng 102:85-6 Ag 8 '24
High-temperature insulation. il Chem & Met Eng 30:874-5 Je 2 '24
High temperature insulation. il Iron Tr R 76: 151-3 Ja 8 '25
High-temperature insulation; Armstrong's insulating brick. il Chem & Met Eng 32:212 F 2 '25
House built to keep in the heat. il Heat & Ven 22:73-4 N '25
Insulating lumber for refrigerator cars. il Ry Age 77:806-7 N 1 '24; Same. Ry Mech Eng 98:709 N '24
Insulation. G. A. Young and E. F. Burton. Refrig Eng 10:345-9 Mr '24
Insulation and heating possibilities in buildings. J. Govan. Eng & Contr (Bldgs) 62: 179-85, 449-57 Jl 23, Ag 27 '24; Excerpts. Heat & Ven 21:47-50 S '24
Insulation of cracking units with tailor-made blocks. H. B. Wentz. il Nat Pet N 17:77-8 Jl 8 '25
Insulation of dwellings and the conservation of heat. Am Arch 128:35-6 Jl 1 '25
Insulation of glass tanks. W. K. Brownlee. Am Cer Soc J 7:457-9; Discussion. 459-64 Je '24
Insulation of periodic kilns. E. A. Phoenix. il diag Brick & Clay Rec 65:112-13+ Jl 22 '24
Insulation of roofs to prevent heat loss and condensation. W. L. Miller. Heat & Ven 21: 45-9+ N '24; 22:49-51+ Ja; 67 F '25
Insulation of stills—what makes it long or short lived. L. C. Converse. il diags Nat Pet N 16:137+ Ap 16 '24
Loss of heat from furnace walls. R. Calvert and L. Caldwell. bibliog il diags Ind & Eng Chem 16:483-90 My '24; Abstract. Mech Eng 46:351-2 Je '24
Measurement of heat insulation and related properties of blankets. P. D. Sale and A. F. Hedrick. il diags U S Bur Stand Tech Pa 266:529-46 '24; Abstract. J Fr Inst 198: 827-9 D '24
Modern developments in insulation. W. H. Mikkelson. Refrig Eng 12:7-8 Jl '25
New insulating material; cellconcrete. Refrig Eng 12:73 Ag '25
Paints of high luminosity to reduce refrigeration losses. H. A. Gardner and H. C. Parks. il chart Am Arch 126:457-8 N 5 '24; Same. Ry R 75:1035 D 27 '24; Same. Ry Mech Eng 99:107-8 F '25
Pipe insulation for lines underground. il diags Power Pl Eng 28:189-90 F 1 '24
Proper insulation aids sale of heating equipment. K. H. Dyer. J Elec 52:58-9 Ja 15 '24
Refinery heat losses and insulation-stills and settings. H. S. Bell. Nat Pet N 16:62-4 Mr 26; 93+ Ap 2 '24
Report of insulation committee. Refrig Eng 10:172-93, 225-36, 256-80, 410-12 N '23-Ja, My '24
Should hot water tanks be insulated? R. H. Heilman. il Sanitary & Heat Eng 102:370-3+ N 28 '24
Slag wool as a building insulator. diags Sheet Metal Worker 15:861-2 D 5 '24
Specifications for pipe coverings. H. E. Collins. Management & Adm 8:503-6 N '24
Structure of heat insulating materials. E. B. Johnson. Sibley J 38:117-18+ My '24
Thermal and physical values of still insulation. L. C. Converse. il Nat Pet N 16:87+ Je 11 '24
Therminsul as an insulating medium. Power 61:923 Je 9 '25
Die wirtschaftliche fortleitung und verteilung von dampf auf grosse entfernungen. K. Hencky. diags Zeit Ver Deutsch Ing 69: 492-8 Ap 18 '25

See also Asbestos; Cold storage; Pipe coverings; Refrigeration and refrigerating machinery; Steam pipe coverings

Cost

Superheated steam insulation pays; cost tables. R. H. Heilman. Chem & Met Eng 31: 934-6 D 15 '24

Terminology

Definitions, nomenclature and symbols. E. F. Mueller. Refrig Eng 10:450-2 Je '24

Testing

Balsam-wool insulation tests. il Ry Age 78: 1041-2 Ap 25 '25; Same. Ry Mech Eng 99: 528-9 Ag '25
Heat losses through insulating materials. R. H. Heilman. Mech Eng 46:593-602 O '24; Same. Sanitary & Heat Eng 103:69-71+, 182-4, 254-5, 365-8 F 6, Mr 20, Ap 17, My 29 '25; Discussion. Mech Eng 46:602-6 O '24
Specifications for constructing and operating heat-transmission apparatus for testing heat-insulating value of fabrics. P. D. Sale. il diags U S Bur Stand Tech Pa 269:595-607 '24; Abstract. J Fr Inst 199:252-4 F '25
Steam conduit system for the Dupont horticultural buildings. F. L. Cason. il diags Heat & Ven 21:61-3 F '24
Tests of insulation of underground steam pipes. W. M. Sawdon. diag Sibley J 39:267-71 F '25
Thermal conductivity and some other properties of two commercial, heat-insulating bricks used in kiln construction. A. T. Green. bibliog Gas J (Lond) 167:sup29-31 Jl 9 '24

INSULIN
Chemistry of insulin. N. Evers. Chem Age (Lond) 9:478-80 N 3 '23
Chemistry of insulin preparation. Can Chem & Met 8:12-14 Ja '24
Extent of the use of insulin in the treatment of diabetes mellitus. Econ W n s 30:494 O 3 '25
Industrial production of insulin. A. S. Wilson-Jones. il Chem Age (Lond) 12:102-4 Ja 31 '25
Insulin. A. Renshaw. Soc Chem Ind J 44:95-100 Mr 6 '25; Abstract. Chem Age (Lond) 10:491 My 10 '24
Insulin and fatal cases of diabetes. Econ W n s 28:279 Ag 23 '24
Insulin and its manufacture. F. H. Carr. flow sheet Soc Chem Ind J 43:228-34 Jl 18 '24; Abstract. Chem Age (Lond) 11:61 Jl 19 '24
Manufacture of insulin. F. H. Carr. Chem Age (Lond) 11:492 N 15 '24
Pancreas gland. B: T. Fairchild. Ind & Eng Chem 16:41-7 Ja '24
Preparation and purification of insulin; abstract. C. H. Best. Chem Age (Lond) 13: 247-8 S 5 '25
Preparation of insulin. D. A. Scott and C. H. Best. bibliog Ind & Eng Chem 17:238-40 Mr '25
Progress of medical science. M. Fishbein. il Sci Am 133:310-11 N '25
Purification of insulin and similar substances by sorption on charcoal and subsequent recovery. P. J. Moloney and D. M. Findlay. J Phys Chem 28:402-6 Ap '24
Source of insulin. J: J. R. Macleod. 24p University lib., Toronto '23

INSULL, Samuel
Insull honored as president of engineering museum. Power 61:1012 Je 23 '25

INSURANCE
Are you properly protected? W: G. Bergner. Dom Eng 108:39-40 Ag 2 '24
Banker and insurance. J. R. Young. Credit M 26:28+ O '24
Business of insurance as the head of an insurance department sees it. F. R. Stoddard, jr. Econ W n s 27:923-5 Je 28 '24

INSURANCE—*Continued*

Fire not the only hazard. L. N. Boyd. Credit M 26:12+ O '24

How we save cancelation losses. D. C. Von Behren. System 46:640+ N '24

Human problem in insurance. A. L. Kirkpatrick. Econ W n s 29:381-2 Mr 14 '25

Importance of the insurance profession. J: R. Wilson. Spectator 113:28-9+ D 4 '24

Insurance conservation and its relation to the public welfare. A. W. Whitney. Spectator 115:55-6+ O 8 '25

Insurance for gas companies. H: G. Hale, jr. Gas Age 53:355-7 Mr 22 '24

Insuring service profits by spreading risk. O. S. Grunbaum. System 47:380+ Mr '25

Opportunity for study afforded by the broadening scope of insurance. J. W. Schofield. Econ W n s 28:93-4 Jl 19 '24

Report of A.G.A. insurance committee. Am Gas Assn Accounting sec v 6:485-9; Discussion. 489-90 '24

Report of N.W.D.A. committee on insurance. Oil Paint & Drug Rep 108:37-8 O 15 '25

Saving money on builders' insurance. G: Coe, jr. il Bldg Age 45:51-3 N '23

Self-insurance scheme of the Canadian National railways. Econ W n s 30:26-7 Jl 4 '25

Sound insurance as the bulwark of individualism. H: S. Ives. Econ W n s 27:745-7 My 24 '24

Special lines; lectures delivered before the Insurance society of New York. 85p Insurance soc. of New York, 84 William st., New York '23

Statistics in the service of insurance administration. E. W. Kopf. Econ W n s 28:777-80 N 29 '24

Three aspects of insurance of interest to members of an insurance institute. M. C. Alder. Econ W n s 28:273-5 Ag 23 '24

Valuable insurance activities of trade associations in the United States. Econ W n s 27:26-7 Ja 5 '24

Ways we save in buying insurance. E. W. Baker. System 48:346-7 S '25

See also Benefit societies; Insurance agents; Insurance companies; Insurance law; Insurance trusts; Lloyds associations; Street railroads—Insurance requirements; Underwriters' laboratories

Adjustment of claims

See also Insurance, Burglary—Adjustment of claims; Insurance, Fire—Adjustment of claims; Insurance, Marine—Adjustment of claims

Bibliography

Around the world with the insurance year books. A. G. Glover. Special Lib 16:157-8 My '25

Coverages

Flexibility of coverages as a need in American insurance. F. R. Stoddard, jr. Econ W n s 27:345-6 Mr 8 '24

Encyclopedias

Versicherungs-Lexikon. A. Manes. 2d ed. 750p E. S. Mittler & son, Berlin '24; Review. A. R. Marsh. Econ W n s 28:596 O 25 '24

International aspects

Disturbance of international insurance operations by the depreciated exchanges. A. R. Marsh. Econ W n s 28:128 Jl 26 '24

Resumé of the situation in regard to United States branches of Russian insurance companies. Spectator 114:3+ Ap 30 '25

Moral hazard

Moral hazard in insurance. W. C. Hill. Spectator 115:4+ O 29 '25; Same. Econ W n s 30:669-72 N 7 '25

Periodicals

Value of insurance papers. G: F. Baright. Spectator 113:6-7 N 20 '24

Policies

Conditions and warranties in policies of insurance. F. N. Crosby. Econ W n s 28:850-3 D 13 '24

Why not get all the coverage you pay for? T: W. Friedrich. System 48:212-13 Ag '25

Rates

Kansas finding. Spectator 115:13 Jl 2 '25

Reinsurance

Breakdown of arbitration in an Anglo-American reinsurance controversy. A. R. Marsh. Econ W n s 28:236 Ag 16 '24

Projected French law establishing a state reinsurance monopoly. Econ W n s 29:926-7 Je 27 '25

Re-insurance companies in Great Britain interim report by departmental committee—important recommendations. Spectator 115: 4 Ag 13 '25

Scandinavian comment on German supervision of re-insurance. Econ W n s 28:350-1 S 6 '24

See also Insurance, Fire—Reinsurance; Insurance, Life—Reinsurance

Societies

List of organizations. Spectator 113:81+ sec 2 Jl 17 '24

Study and teaching

Insurance education in the United States. D. N. Handy. Special Lib 16:295-7 O '25

Austria

Insurance conditions in Austria. B. Deutsch. Econ W n s 28:349-50 S 6 '24

Canada

Fidelity, casualty and miscellaneous insurances in Canada in 1924. Econ W n s 29: 638 My 2 '25

Europe

Insurance conditions in Middle Europe. Econ W n s 29:385-6 Mr 14 '25

Great Britain

Co-operative insurance society annual meeting, Manchester, Eng., April 22. Economist 100:1089-90 My 30 '25

Insurance in 1924. Economist 101:sup3-19 Jl 11 '25

See also Insurance law—Great Britain

Jugoslavia

Insurance in Jugoslavia. B. Deutsch. Econ W n s 27:384-5 Mr 15 '24

New York (state)

Annual report of the superintendent of insurance of New York. Econ W n s 29:350-1 Mr 7 '25

Portugal

Insurance conditions in Portugal. Econ W n s 30:531 O 10 '25

Rumania

Insurance in Rumania in 1924. B. Deutsch. Econ W n s 29:636-7 My 2 '25

Russia

System of state insurance in soviet Russia. Econ W n s 28:165-8 Ag 2 '24

Three years of state insurance in soviet Russia. Econ W n s 29:527-9 Ap 11 '25

South Africa

Insurance in the Union of South Africa, 1919-1921. Econ W n s 27:819 Je 7 '24

Spain

Insurance in Spain in 1924. Econ W n s 30:567 O 17 '25

INSURANCE—*Continued*

United States

American insurance in relation to the national wealth and income. A. R. Marsh. Econ W n s 29:164 Ja 31 '25

Place of insurance in our national economy. A. R. Marsh. Annalist 26:277-8 S 4 '25; Same. Econ W n s 30:565-6 O 17 '25

INSURANCE, Accident

Accident and health insurance. H. R. Gordon. Spectator 115:4 Ag 27 '25

Are we apt students? W. T. Grant. Spectator 112:17+ Mr 13 '24

Educational ideals in health and accident insurance. S. S. Huebner. Spectator 115:3-4+ S 3; 35-6 S 10 '25; Same. Econ W n s 30: 417-20 S 19 '25

Group accident and sickness insurance. W: F. Chamberlin. Spectator 114:9+ sec 2 My 7 '25

Low cost travel insurance policies offered as trade pullers. R. B. Stafford. Nat Pet N 17: 55-6 Mr 25 '25

1924 time saver for accident and health insurance. F. C. Burnham, comp. 315p National underwriter co., Cincinnati '24

Past year in American health and accident insurance. C. O. Pauley. Econ W n s 30:491-2 O 3 '25

Safeguarding an income by means of insurance. Econ W n s 28:741-4 N 22 '24

Selling accident and health insurance. Spectator 112:36-7 Mr 27; 19+ Ap 17; 19+ My 1; 32+ My 8; 29 My 22; 29+ Je 5; 7-8 Je 19; 35 Je 26 '24

See also Insurance, Casualty; Insurance, Electric machinery; Insurance, Employers' liability; Insurance, Workmen's compensation

Agents

Canvassing for accident and health coverages. T: L. Bean. Spectator 114:11+ sec 2 My 7 '25

Finance

Unfavourable experience in America. Economist 99:sup16-18 Jl 12 '24

Policies

Accident and health underwriting. F. M. Feffer. Spectator 113:37 S 11 '24

Provisions of health and accident insurance policies and their legal interpretation. R. O. Davidson. Econ W n s 28:22-6 Jl 5 '24

California

Industrial accidents in California in 1924. Econ W n s 30:98-9 Jl 18 '25

Great Britain

Accident insurance; a handbook on its principles and practice. B. H. Hill. 248p H. F. & G. Witherby, London '24

Switzerland

Five years of compulsory accident insurance in Switzerland. Int Labour R 10:837-53 N '24

INSURANCE, Agricultural

Crop insurance being tested out in South Carolina. G: Garner. Manuf Rec 87:94-6 My 7 '25

Crop insurance—its recent accomplishments and its possibilities. G. W. Hoffman. chart Ann Am Acad 117:94-120 Ja '25

Insurance against marketing losses. J. J. Fitzgerald. 40p Am. inst. of agric., Chicago '23

Insurance and the farm hazards. V. N. Valgren. J Land & Pub Util Econ 1:189-97 Ap '25

Insurance on growing crops. A. H. Palmer. Econ W n s 29:887-90 Je 20 '25; Same. Spectator 114:29-31+ Je 4 '25

New form of farm credit and crop insurance adopted by sugar-cane planters of Louisiana. D. W. Pipes, jr. Manuf Rec 88:67-8 S 24 '25

New links between banking and insurance. Am Bankers Assn J 17:731 Je '25

Novel wheat production insurance scheme in Great Britain. Econ W n s 30:315 Ag 29 '25

See also Insurance, Frost; Insurance, Hail; Insurance, Live stock

INSURANCE, Automobile

American casualty underwriters and the question of compulsory automobile liability insurance. A. R. Marsh. Econ W n s 28: 560 O 18 '24

Are you really protected against automobile accidents? J. S. Kemper. System 45:688-9+ My '24

Automobile design and automobile insurance hazards. C. R. Alling. Econ W n s 29:563-4 Ap 18 '25

Automobile from the insurance underwriters viewpoint. C. R. Alling. Soc Auto Eng J 15: 486-7 D '24; Abstract. Automotive Ind 51: 1016-18 D 11 '24

Automobile insurance. A. Ryder. 235p Spectator co., New York '24

Automobile insurance activity allied with time sales problems. J: C. Gourlie. Automotive Ind 53:201-4 Ag 6 '25

Automobile insurance comments. Spectator 114:31 Ap 9 '25

Automobile insurance contracts. A. Ryder. Spectator 114:30-2 Ja 1 '25

Automobile insurance in the United States in 1923. W: S. Crawford. Econ W n s 27:93-4 Ja 19 '24

Automobile insurance practice in Great Britain. Econ W n s 28:243 Ag 16 '24

Automobile liability needs. G. L. G. Thomas. Spectator 112:4+ sec 2 Ap 10 '24

Automobile ownership and the collision hazard. il Spectator 112:17 sec 2 Ap 10 '24

California car dealers and owners pay least insurance. Automotive Ind 53:643 O 8 '25

Car sales increased by compulsory liability insurance in Switzerland. W. F. Bradley. Automotive Ind 51:600-1 O 2 '24

Chrysler insurance test case promised. Automotive Ind 53:110, 156 Jl 16-23 '25

Chrysler motor corporation's automobile insurance scheme. A. R. Marsh. Econ W n s 30:128 Jl 25 '25

Chrysler plan. Spectator 115:13, 15 Jl 30; 3+, 15+ Ag 6; 13 Ag 13; 4 Ag 20 '25

Competition in automobile financing and insurance. Econ W n s 30:350 S 5 '25

Compulsory automobile insurance as it affects the public utilities. H: S. Ives. N E L A Bul 12:300-1 My '25

Compulsory automobile insurance; bill before recess committee of Massachusetts legislature. W. E. Roesch. Spectator 114:9+ Ja 22 '25

Compulsory insurance—how it is working in Switzerland and Denmark. W. F. Bradley. Automotive Ind 51:484-5 S 11 '24

Compulsory insurance—what will the industry do about it? D. G. O'Connor. Automotive Ind 51:309-12 Ag 14 '24

Demark's compulsory automobile liability insurance law. Econ W n s 30:457-8 S 26 '25

Doctrine of negligence and the abuse of automobile liability insurance. A. R. Marsh. Econ W n s 28:488 O 4 '24

Educational primer on automobile insurance. R. S. Keelor. 39p Insurance federation of Pennsylvania, Philadelphia '23

Fire and theft automobile insurance. Spectator 114:31-2 Mr 12 '25

Guest hazard in automobiling from an insurance standpoint. D. B. Salmon. Econ W n s 28:670-1 N 8 '24

Hartford Accident's automobile finance plan. Spectator 115:3 Ag 20 '25

Increasing public demand for compulsory automobile liability insurance. A. R. Marsh. Econ W n s 27:236 F 16 '24

Insurance and the automobile in 1924. W: S. Crawford. Econ W n s 29:57-8 Ja 10 '25

Insurance and the financing of automobile sales. A. R. Marsh. Econ W n s 30:308 Ag 29 '25

INSURANCE, Automobile—*Continued*
Insurance at cost—but what is the cost? A. L. Kirkpatrick. Econ W n s 29:597-600 Ap 25 '25
Insurance companies and motor accidents as viewed in England. Economist 101:140 Jl 25 '25; Same. Econ W n s 30:240-1 Ag 15 '25
Insurance decisions. J. W. Zeller. Spectator 112:35+ Jl 3 '24
Insurance men continue to bombard Chrysler and G. M. plans. J: C. Gourlie. Automotive Ind 53:361-3 S 3 '25
Insurance that insures sales; Chrysler plan. E. Dakin. Comm & Fin 14:1579-80 Ag 19 '25
Lesson for automobile owners as to the ultimate cost of cheap insurance. A. R. Marsh. Econ W n s 27:812 Je 7 '24
More cars uninsured to-day than five years ago. A. Ryder. il Spectator 114:5+ sec 2 My 7 '25
New York and other state insurance commissioners enjoined from revoking license of Palmetto fire insurance co. underwriting automobile theft and fire insurance. Comm & Fin Chr 121:793-4 Ag 15 '25
Opposition to compulsory insurance growing apace. H. S. Ives. Automotive Ind 52:536-8 Mr 19 '25
Present automobile situation from an insurance standpoint. Econ W n s 29:530-1 Ap 11 '25
Prevention of automobile losses. Spectator 115:31-2+ Ag 13 '25
Question of compulsory liability insurance for motor vehicles. W. E. Monk. Econ W n s 28:201-3 Ag 9 '24
Reciprocal exchanges as compared with stock insurance companies. M. C. Kennedy. Econ W n s 30:309-11 Ag 29 '25
Value of compulsory automobile liability insurance. Spectator 113:3-4+ N 27 '24
When is the loss ratio on an automobile risk unfavorable? Econ W n s 27:493-4 Ap 5 '24
Would make it impossible for negligent policyholder to set up claim. H. L. Conn. Spectator 113:7 S 25 '24

See also Insurance, Motor bus

Policies

Condition requiring sole and unconditional ownership by insured held not unreasonable. Spectator 114:21 Ap 16 '25
First automobile policy in United States. il Spectator 114:15 Je 25 '25
Meaning of theft in an automobile insurance policy. F. N. Crosby. Econ W n s 29:669-70 My 9 '25

Rates

Does safety work affect automobile insurance rates? H. P. Stellwagen. Econ W n s 27:741-3 My 24 '24

INSURANCE, Aviation
Case of aviation insurance of interest to Americans. Econ W n s 28:819 D 6 '24

INSURANCE, Baggage. See Insurance, Personal effects

INSURANCE, Burglary
Policy covering robberies revised. W: F. Keyser. Am Bankers Assn J 17:267+ O '24
Selling burglary insurance to the producers. S. B. Brewster. Spectator 112:7 sec 2 Ap 10 '24

Adjustment of claims

Adjustment of burglary insurance claims. A. C. Skaife. Econ W n s 28:60-2, 94-8 Jl 12-19 '24

Rates

Burglary rates up. Spectator 114:25 Ap 16 '25

INSURANCE, Business
Business life insurance. Spectator 112:18-19 Je 12 '24
Business life insurance for corporations and the benefits derived therefrom. Econ W n s 29:492-4 Ap 4 '25
Business perpetuation by means of life insurance. C. M. Hunsicker. Spectator 114:33 My 21 '25
How banks link up life insurance with commercial organizations. J. H. Ardrey. Econ W n s 29:633-5 My 2 '25
How to sell more ordinary. W: Thornton. Spectator 112:21-2 Ja 3 '24
Human value of business compared with the property value. S. S. Huebner. Econ W n s 28:129-32, 168-71, 205-7 Jl 26-Ag 9 '24; Excerpts. Spectator 113:13-16 Jl 31 '24
Insured for his creditors. M. C. Terrill. Credit M 26:20+ O '24
Legal aspects of life insurance for business purposes. H. R. MacMillan. Econ W n s 30:57-9 Jl 11 '25
Life insurance for benefit of the business, a credit asset. W. H. Turner. Credit M 27:41 Ja '25
Plan for partnership insurance. G. M. Lovelace. Spectator 114:33-4+ Mr 19 '25
Seventy writes to thirty. G: A. Goodridge. Credit M 27:7-8 Ap '25
Some thoughts on business insurance. W. J. Amos. Spectator 112:25 Je 19 '24
Why we use corporation life insurance. G: B. Dryden. System 46:200 Ag '24
Your best men—are they insured? J: A. Stevenson. Nation's Business 13:36-9 Je '25

INSURANCE, Casualty
Business of American casualty and liability insurance companies in 1924. Econ W n s 29:674 My 9 '25
Casualty and liability insurance in the United States in 1924. F: Richardson. Econ W n s 29:129-30 Ja 24 '25
Casualty and surety insurance in the United States in 1923. F: Richardson. Econ W n s 27:165-6 F 2 '24
Casualty benefits in life insurance policies. C. E. Cale. Econ W n s 27:346-8, 385-7 Mr 8-15 '24
Casualty business in 1924. Spectator 114:3+ Ja 8 '25
Casualty insurance in the United States in 1924. Spectator 114:4+ My 14 '25
Casualty insurance; its scope and function. J. S. Phillips. Special Lib 16:141-3 My '25
Casualty problems from the public viewpoint. W: Leslie. Econ W n s 28:813-16 D 6 '24
Credit problem solved. C: W. Fletcher. Credit M 26:21-2 N '24; Same. Econ W n s 28:669-70 N 8 '24
Insurance as conservation and its relation to the public welfare. A. W. Whitney. Econ W n s 30:525-7 O 10 '25; Same. Safety Eng 50:258-62 N '25; Excerpt. Spectator 115:35+ N 5 '25
An insurance romance; will it be blighted by the state? H: S. Ives. Credit M 26:13+ Je '24
Insurance specialties and credit. H: S. Ives. Credit M 26:13+ F '24
New and retired casualty and miscellaneous insurance companies. Spectator 114:12-13 Ja 29 '25
Ranking ten in casualty, surety and miscellaneous lines in 1923. Spectator 113:31 O 23 '24
Relation of casualty insurance to American business and industry. J. S. Phillips. Econ W n s 29:165-6 Ja 31 '25

See also Insurance, Accident; Insurance, Agricultural; Insurance, Burglary; Insurance, Earthquake; Insurance, Explosion; Insurance, Flood; Insurance, Forgery; Insurance, Hail; Insurance, Liability; Insurance, Marine; Insurance, Plate glass; Insurance, Rain; Insurance, Strike; Insurance, Surety and fidelity; Insurance, Tornado; Insurance, Workmen's compensation; *also* Casualty actuarial society; National bureau of casualty and surety underwriters

INSURANCE, Casualty—*Continued*

Accounting

Determination of acquisition and field supervision cost by lines of business of casualty insurance. T: F. Tarbell. Spectator 112:25-8 Je 5 '24

Advertising

Advertising from the viewpoint of a casualty company executive. F. H. Burns. Spectator 114:4+ Je 18 '25

Agents

Developing your casualty insurance business. J. R. Wilson. Spectator 112:16 sec 2 Ap 10 '24

Non-production in villages and in towns. J. R. Wilson. Spectator 114:30-1+ F 12 '25

Preparedness, enthusiasm and reliability. J. R. Wilson. Spectator 114:33-4 Ja 1 '25

Finance

Extracts from 1924 statements of casualty and miscellaneous insurance companies. Spectator 114:27+ Ap 16 '25

Premiums and losses for 1923 in casualty special lines; tabulation. Spectator 112:21+ sec 2 Ap 10 '24

Premiums and losses for 1924 in casualty special lines; tabulation. Spectator 114:12 sec 2 My 7 '25

Transactions of leading companies in motor vehicle, tornado, hail and sprinkler leakage insurance. Spectator 114:20-2 sec 2 My 7 '25

Underwriting and investment profits and losses of casualty and miscellaneous insurance companies in ten years, 1914-1923. Spectator 113:8-9 Jl 10 '24

Underwriting and investment profits and losses of leading casualty and miscellaneous insurance companies in 1923. Spectator 112: 9+ Je 12 '24

Underwriting and investment profits and losses of 100 casualty and miscellaneous insurance companies in a decade, 1915-1924. Spectator 115:4-5, 21 Jl 9 '25

INSURANCE, Consumers' liability

Consumers' liability. S. B. Mason, jr. Spectator 112:40 Ja 17 '24

INSURANCE, Cooperative

Farmers' mutual fire insurance in the United States. V: N. Valgren. 186p Univ. of Chicago press '24

Insurance at cost—but what is the cost? A. L. Kirkpatrick. Econ W n s 29:597-600 Ap 25 '25

See also Insurance, Trade union

INSURANCE, Credit

Bankers and credit insurance. Economist 99: 1001-2 D 20 '24; Same. Econ W n s 29:95-6 Ja 17 '25

Credit insurance. Economist 101:182-3 Ag 1 '25

Credit insurance. Engineering 119:641-2 My 22 '25

Credit insurance. S. B. Ackerman and J: J. Neuner. 98p Ronald press '24

Credit insurance. T: J. Burke. Paper Tr J 78: 66 F 14 '24

Credit insurance as viewed by the Federation of British industries. Econ W n s 30:25 Jl 4 '25

Credit insurance inquiry. E. Boykin. Credit M 27:18+ Mr '25

Credit insurance: its objects and the principles governing it. H. S. Spain. Econ W n s 29:525-7, 565-7 Ap 11-18 '25

Credit insurance, pro and con. E. Boykin. Credit M 27:15+ My '25

Credit or insolvency insurance as developed in Great Britain. N. M. Walker. Econ W n s 28:489-91, 529-31 O 4-11 '24

Government and credit insurance. Economist 100:289 F 14 '25; Same. Econ W n s 29:422 Mr 21 '25

Insurance and the financing of the foreign commerce of Great Britain. Econ W n s 30:204-6 Ag 8 '25

Protecting foreign shipments; insurance against credit risks. H. L. Gibson. Management & Adm 9:39-40 Ja '25

Une réalisation de l'assurance contre l'insolvabilité des débiteurs commerciaux. A. Bernard. Chimie & Ind 13:514-16 Mr '25

INSURANCE, Earthquake

Increasing public demand for earthquake insurance. W. Reid. Econ W n s 29:854-5 Je 13 '25

Quake loss estimated at under $2,000,000. Spectator 115:3+ Jl 9 '25

Underwriting earthquake hazards. B. Willis. Econ W n s 29:453-6, 490-2 Mr 28-Ap 4 '25

INSURANCE, Electric machinery

Electric machinery insurance. Elec W 83:423-6 Mr 1 '24; Discussion. W. Hilleary. 83: 779-80 Ap 19 '24

Electrical machinery insurance: its theory and practice. J. J. Graham. Econ W n s 28:417-20, 458-9 S 20-27 '24

INSURANCE, Employers' liability

Right of employer and insurance carrier to defend in case of conflicting interests under employers' liability insurance policy. Monthly Labor R 21:416-18 Ag '25

See also Insurance, Workmen's compensation

INSURANCE, Explosion

Explosion, riot and civil commotion insurance. W. L. Reid. Econ W n s 27:349-50 Mr 8 '24

INSURANCE, Fidelity. See Insurance, Surety and fidelity

INSURANCE, Fire

Bankers and business fires. Comm & Fin 13: 80-1 Ja 9 '24

Benefits yielded by close co-operation between fire insurance and the other branches of business. J. L. Madden. Econ W n s 29:237-9 F 14 '25

Buying fire insurance. G: Coe, jr. Bldg Age 45:67-8 D '23

Case for the universal application of average to fire insurance. E. H. Minnion. Econ W n s 29:705-7, 744-7 My 16-23 '25

Chances the merchant takes; results of under insurance. Credit M 26:32+ O '24

Does your radio set jeopardize your insurance? an interview with R. B. Shepard. B. B. Bostick. il Radio N 7:160A-B Ag '25

Expert property appraisals as an assistance to fire insurance. H. B. Hall. Econ W n s 28:345-6 S 6 '24

Farmers' mutual fire insurance companies. V: N. Valgren. Univ J of Business 3:126-52 Mr '25

Fire insurance business and the public. J. B. Levison. Econ W n s 28:637-9 N 1 '24

Fire insurance in relation to goods sold but not delivered. G. A. Yocum. Econ W n s 30: 527-8 O 10 '25

Fire insurance on street railways. J. S. Mahan. diag Elec Ry J 64:523-7 S 27 '24

First steps in fire insurance. M. C. Krarup. Forbes 14:163-6 My 10 '24

George G. Bulkley surveys the fire insurance business. Spectator 115:16+ O 22 '25

Incidence of the fire risk on goods sold but not delivered. Econ W n s 29:925-6 Je 27 '25

Insurable interest in property insurance. K. W. Withers. Econ W n s 28:889-91 D 20 '24

Insurance and risk protection. Published in monthly numbers of System

Insurance and the public. J. B. Levison. Spectator 113:3+ O 16 '24

Large city underwriting. C: C. Dominge. Spectator 114:4+ Ja 22 '25

Philosophy of fire insurance. A. F. Dean. 3v E. B. Hatch, Chicago '25

Policy-holders' share. Nation's Business 13: 28+ Je 5 '25

Public service of fire insurance. W. E. Mallalieu. Special Lib 16:139-40+ My '25

INSURANCE, Fire—*Continued*

Report of N. W. D. A. committee on fire insurance. Oil Paint & Drug Rep 106:40 O 1 '24

See also Arson; National board of fire underwriters

Accounting

Audits of accounts of fire-insurance companies. F. Herbert. J Account 40:81-99 Ag '25

Adjustment of claims

Claim adjustments under fire insurance policies. H. D. Russ. Econ W n s 27:310-12 Mr 1 '24

Principles of fire insurance as illustrated by some interesting loss adjustments. W: A. Bament. Econ W n s 29:24-6, 60-2 Ja 3-10 '25

Short road to confidence in fire insurance. M. C. Krarup. Forbes 14:436-7 Jl 5 '24

Advertising

Co-operative agency advertising. J. W. Longnecker. Spectator 113:35 S 11 '24

Insurance and the farmer—another equation for advertising. Ptr Ink 126:169+ Mr 13 '24

Agents

Appraisals as a means of serving clients. H. G. Baldwin. Spectator 113:33-5 S 11 '24

Increasing discussion of the proper function of the fire insurance agent. A. R. Marsh. Econ W n s 28:56 Jl 12 '24

Insurance agent and fire prevention. T. A. Fleming. Econ W n s 30:239-40 Ag 15 '25

Relations between companies and agents in American fire insurance. A. R. Marsh. Econ W n s 28:416 S 20 '24

Specific campaign for agency development. Spectator 112:13 sec 2 Ap 10 '24

Survey of Dallas situation. Spectator 114: 11-12 Ap 23 '25

Bibliography

Literature of fire insurance. D. N. Handy. Special Lib 16:146-50 My '25

Classification of risks

The experience grading and rating schedule. E. G. Richards. Rev. ed. 157p Van Nostrand '24

Commissions

Controversy over commissions. Spectator 112: 3-4+ Ja 17; 3-4 Ja 31; 9 F 7 '24

Threatened interposition of public authority in the Mid-western fire insurance controversy. A. R. Marsh. Econ W n s 27:92 Ja 19 '24

Uniform commissions for fire insurance agents by order of a committee of insurance commissioners. A. R. Marsh. Econ W n s 27: 200 F 9 '24

Costs

Defends cost of fire insurance. Spectator 112: 3-4+ My 22 '24

See also Insurance, Fire—Finance; Insurance, Fire—Reinsurance

Finance

Analysis of insurance stocks. Spectator 112: 11 Ap 3 '24

British fire offices in the United States Economist 100:900-1 My 9 '25

Business of American fire insurance companies in 1923. A. R. Marsh. Econ W n s 27:632 My 3 '24

Cost of doing business of American fire insurance. J. Lichtenstein. Econ W n s 27: 527-8 Ap 12 '24

Criteria of safety in a fire insurance carrier. G. A. Yocum. Econ W n s 30:422-3 S 19 '25

Distribution by states of fire insurance in 1923. Spectator 112:32-4 Je 5 '24

Fire insurance; a year of improvement. Economist 99:sup13-16 Jl 12 '24

Fire insurance in the United States in 1923. Spectator 112:3, 35-7 Ap 24 '24

Fire insurance in the United States in 1924. Spectator 114:35-7 Ap 23 '25

Fire insurance premiums in New York city. Spectator 112:7-9+ Jl 3 '24

Insurance costs and profits. Economist 99:721-2 N 8 '24; Same. Econ W n s 28:818-19 D 6 '24

Loss to fire insurance companies on "cancelled not taken" policies. Econ W n s 27: 855 Je 14 '24

National board estimates new high total in 1924 fire losses. H. A. Smith. Spectator 114:3+ My 28 '25

Opportunities for investors. R. V. Sykes. Forbes 13:652-3 Mr 1 '24

Profits and losses of British fire insurance companies in the United States in 1923. Econ W n s 27:781-2 My 31 '24; Same. Economist 98:904-5 My 3 '24

Relations of the National board of fire underwriters and its members to the American public. H. A. Smith. Econ W n s 27:777-80 My 31 '24

Underwriting and investment profits and losses in a decade of 100 millionaire fire insurance companies. Spectator 115:5, 9, 11 Jl 16 '25

Underwriting and investment profits and losses in a decade of 100 millionaire fire insurance companies; tabulation. Spectator 113:32-3 Ag 14 '24

Underwriting and investment profits and losses of fire insurance companies in 1923. Spectator 112:5+ My 8 '24

Underwriting and investment profits and losses of fire insurance companies in 1924. Spectator 114:5+ My 21 '25

Underwriting losses shown by fire and tornado insurance on farm property in the Mid-Western states. Econ W n s 30:351 S 5 '25

Where fire insurance dividends come from. Spectator 113:4+ S 25 '24; 115:4+ S 10 '25

History

Fire insurance and fire insurance rate making. B. C. Hyde. Spectator 115:36-7 S 10 '25

Losses

See Insurance, Fire—Finance

Moral hazard

Credit features of risks. W: Gregg. Credit M 27:15 O '25

Moral hazard as the fire underwriter finds it in his business. C: A. Colvin. Econ W n s 27:455-8 Mr 29 '24

Moral hazard of custodians of property from a fire insurance standpoint. P. B. Reed. Econ W n s 27:634-6 My 3 '24

Policies

Appellate division construes profits and commissions form. J. W. Zeller. Spectator 113:45+ N 27 '24

80% clause in your insurance—what it is; how it operates. J. R. Wilson. System 45:358-9 Mr '24

Fallen building clause in fire insurance policies. G. A. Yocum. Econ W n s 30:601-3 O 24 '25

General cover contracts in fire insurance: what they are and how they are written. V. L. Gallagher. Econ W n s 27:57-9 Ja 12 '24

Helping the retailer get right on his fire insurance. Ptr Ink M 11:106 Ag '25

Under-insurance and credit. W: M. Prentice. Credit M 26:14+ O '24

What's what in your fire policy? H. A. Smith. Nation's Business 13:44-5 N '25

Where the 80% clause is best. E. E. Pierce. il System 47:514-15 Ap '25

Rates

Effect of distribution system design upon fire insurance rates. L: Stocklmeir. Am Water Works Assn J 11:572-81 My '24

Experience rate-making in fire insurance. E. G. Richards. Econ W n s 27:203-6 F 9 '24; Same. Spectator 112:13-15 Ja 31 '24

Insurance rates. Safety Eng 47:189-90 Ap '24

INSURANCE, Fire—Rates—*Continued*
Making of the fire insurance rate. E: R. Hardy. Spectator 112:4 Ja 3; 4+ Ja 10; 35-6 Ja 17; 4+ Ja 31; 4 F 7; 4+ F 14; 4+ F 21; 35-6 F 28; 4 Mr 6; 4 Mr 13; 4 Mr 20; 4+ Mr 27; 12-13 Ap 3; 4+ Ap 17; 4 My 1; 4 My 8; 4 My 15; 4+ Je 5; 4+ Je 19; 113:4 Jl 3; 4 Jl 10; 11 Jl 24; 37 Jl 31; 4 Ag 7; 4 Ag 14; 4 Ag 21; 4 Ag 28; 4+ S 4; 4+ S 11; 4 S 18; 37 S 25; 4+ O 2; 31-3 N 6; 24-5 N 13; 21+ N 27; 33+ D 4; 4+ D 18 '24; 114: 4+ Ja 1; 4+ Ja 8; 4+ Ja 15; 22-3 Ja 22; 4+ F 5; 4+ F 12 '25
Mr Ellis G. Richards on the proper method of computing underwriting profit in fire insurance. A. R. Marsh. Econ W n s 27: 488 Ap 5 '24
New chapter of the Missouri fire insurance rate controversy. A. R. Marsh. Econ W n s 29:20 Ja 3 '25
Report of the A. G. A. insurance committee. Am Gas Assn Accounting sec v 5:436-9 '23
Safe insurance for clay plants. Brick & Clay Rec 64:104-6 Ja 22 '24
Text of the proposed standard fire insurance rating law. Econ W n s 29:457-9 Mr 28 '25

Reinsurance

Dixie fire decision. Spectator 112:11+ My 29 '24
Observations on fire reinsurance. D. L. Lundgren. Spectator 113:27-30 Ag 14 '24; Same. Econ W n s 28:311-13 Ag 30 '24
Reinsurance and the loss and expense ratios in fire insurance. Econ W n s 30:243 Ag 15 '25
Reinsurance as a factor in the rising expense ratio of fire insurance. A. R. Marsh. Econ W n s 27:344 Mr 8 '24

Taxation

Discriminatory taxation of insurance companies in Illinois. A. R. Marsh. Econ W n s 29:704 My 16 '25
Taxation of fire insurance companies in Illinois. A. R. Marsh. Econ W n s 28:344 S 6 '24

Canada

Fire insurance in Canada in 1924. Econ W n s 29:602-3 Ap 25 '25
Recent disappointing underwriting results of fire insurance companies in Canada. Econ W n s 28:926-7 D 27 '24
Unfavorable experience of fire insurance companies in Canada in recent years. J: B. Laidlaw. Econ W n s 29:348 Mr 7 '25

Costa Rica

Unsatisfactory fire insurance conditions in Costa Rica. Econ W n s 28:58 Jl 12 '24

France

Statistics of the 1923 business of French stock fire insurance companies. Econ W n s 28:387 S 13 '24

Great Britain

British fire offices in 1923. Economist 98:1100-1 My 31 '24
Fire insurance at risk in London, England. Econ W n s 30:26 Jl 4 '25
Fire insurance in Great Britain in 1924. Econ W n s 30:98 Jl 18 '25
Fire insurance underwriting profit in England as compared with the United States. A. R. Marsh. Econ W n s 27:884 Je 21 '24
Principles and practice of fire insurance in the United Kingdom. F. Godwin. 135p Pitman '24
Underwriting profit in British fire insurance. A. R. Marsh. Econ W n s 28:632 N 1 '24

Hungary

Fire insurance conditions in Hungary. E. Reinitz. Econ W n s 30:312-14 Ag 29 '25

Japan

Earthquake fire insurance question in Japan. A. P. W. Blencowe. Econ W n s 28:58-60 Jl 12 '24
Insurance factor in Japan. B. Page. il Am Exporter 94:19-22 F '24

Massachusetts

Seventy-five years of fire insurance. 122p Springfield fire and marine insurance co., Springfield, Mass. '24

North Carolina

North Carolina's annual fire loss as an economic disease. W. J. Matherly. Econ W n s 28:420-1 S 20 '24

Norway

Fire insurance in Norway in 1923. Econ W n s 28:783 N 29 '24

Porto Rico

Fire underwriting experience in Porto Rico in 1924. Econ W n s 30:27 Jl 4 '25

South Africa

Fire losses and commercial morality in South Africa. A. Knox. Econ W n s 30:206-7 Ag 8 '25

South America

Fire insurance practice in South America. F. J. Williams. Econ W n s 28:634-7, 671-4, 708-10, 745-7 N 1-22 '24

Sweden

Fire insurance in Sweden in 1923. Econ W n s 28:639 N 1 '24

Texas

Fire prevention and fire insurance conditions in Texas as surveyed by the National fire protection association. Econ W n s 29: 204-6 F 7 '25

United States

Distribution by states of fire insurance in 1924. Spectator 114:4+ Je 11 '25
Farmers' mutual fire insurance in the United States. V: N. Valgren. 186p Univ. of Chicago press '24
Financial results of the business of American fire insurance companies in 1924. A. R. Marsh. Econ W n s 29:632 My 2 '25
Fire and marine companies which have been organized or retired during year past. Spectator 114:26 Ja 22 '25
Fire insurance in its relations with the American people. H. A. Smith. Econ W n s 29: 813-15, 852-4 Je 6-13 '25
Present problems of American stock fire insurance. G: G. Bulkley. Econ W n s 30:633-4 O 31 '25
Underwriting results of American fire insurance companies in 1924. A. R. Marsh. Econ W n s 29:812 Je 6 '25

INSURANCE, Flood
One coverage I didn't have. Spectator 114: 39 Mr 12 '25

INSURANCE, Forgery
Co-operation with brokers along a new line; forgery bond insurance. J: A. Cochrane. Spectator 112:33-4 F 28 '24
Forgery bond insurance. W. L. Barnhart. Spectator 112:15+ Ap 24 '24
Protection of the bank account through forgery insurance. Econ W n s 27:529-30 Ap 12 '24
Truth about insurance protecting against fraudulent alteration of checks. F. L. Armstrong. Bankers M 109:215-18 Ag '24

INSURANCE, Fraternal. See Benefit societies

INSURANCE, Frost
Frost insurance of citrus fruits. A. H. Palmer. Spectator 115:29-31+ N 5 '25

INSURANCE, Group
Capital line insures employees. Elec Ry J 65:883-4 Je 6 '25
Dozen years of group insurance. W: J. Graham. Econ W n s 27:129-31 Ja 26 '24
Early aspects of group insurance. Spectator 113:33-4 Jl 24 '24
Group accident and sickness insurance. W: F. Chamberlin. Spectator 114:9+ sec 2 My 7 '25
Group, accident and sickness insurance for employees. W: F. Chamberlin. Spectator 112: 19 sec 2 Ap 10 '24

INSURANCE, Group—*Continued*
Group insurance. Prof Eng 9:16-17 My '24
Group insurance. J. G. Reese. Am Gas J 122: 127+ F 7 '25; Same. Gas Age 55:184 F 7 '25
Group insurance—a permanent industrial factor. D. G. Woolf. Textile World 67:859-60 F 7 '25
Group insurance as a factor in industrial relations. W: F. Chamberlin. Ind Management 67:149-50 Mr '24
Group insurance fills definite need. W. H. Ude. Elec W 86:573 S 19 '25
Group insurance for building trade employees worked out by the Industrial association of San Francisco. Eng & Contr (Bldgs) 61:700 Mr 26 '24
Group insurance for the Southern Pacific railroad company. Management & Adm 8:196 Ag '24
Group insurance is help insurance. W. C. Riddle. Brick & Clay Rec 66:37+ Ja 6 '25
Group insurance plan of the Delaware and Hudson railroad. L. F. Loree. Econ W n s 29:635-6 My 2 '25
Group insurance plan of the Public service corporation of New Jersey. Ry R 76:836-7 My 2 '25
Group-insurance plan of the Southern Pacific co. Monthly Labor R 18:157 Ja '24
Group life insurance for banks. F: H. Ecker. Econ W n s 28:21-2 Jl 5 '24; Same cond. Spectator 112:27-8 Jl 3 '24
Group life insurance on twenty-seven railroads; list of roads. Ry Age 76:881-3 Ap 5 '24
Group life insurance plan of the Canadian Bank of commerce. Econ W n s 30:132-3 Jl 25 '25
Growth of group insurance in American industry. Econ W n s 29:855 Je 13 '25
Helping employees to help themselves—to health. H. A. Ley. Forbes 14:616-18 Ag 15 '24
Insuring your labor supply. E. Dakin. Comm & Fin 13:567-9 Mr 19 '24
New York bank's experience with group insurance. Econ W n s 28:674 N 8 '24
Northern Pacific takes $50,000,000 policy for group insurance. Ry R 75:213 Ag 9 '24
Our group insurance plan sold itself. D. Farrand. System 48:88+ Jl '25
Policyholders' service bureau of the Metropolitan life insurance co. L. A. Tafel. Special Lib 16:288-9 O '25
Psychology of group insurance. W: F. Chamberlin. Spectator 112:33-6 Ap 17; 23+ My 1; 14+ My 15; 22-6 My 29; 15-17+ Je 12; 27-8 Je 26 '24
Report of sub-committee on welfare of employees as affecting relations of company with customer. Am Gas Assn Accounting sec v 6:390-402; Discussion. 453-5 '24
When sickness stops wages, what? W: B. Bailey. Ind Management 67:31-3 Ja '24
Will a Christmas gift build employee goodwill? life insurance policies. System 48:576-7 N '25

Advertising

How Metropolitan keeps group insurance sold by advertising. R. W. Sparks. Ptr Ink M 8:70+ My '24

INSURANCE, Hail
Extremely unfavorable experience of hail insurance in Canada in 1923. Econ W n s 27:170-1 F 2 '24
Hail. Spectator 113:35 O 23 '24
Hail insurance experience in 1924 in the western provinces of Canada. Econ W n s 29: 99 Ja 17 '25
Hail insurance in Canada by United States, British and Canadian insurance companies from 1918 to 1922 inclusive. Spectator 112: 37 F 28 '24
Hail insurance in middle Europe in 1925. B. Deutsch. Econ W n s 30:348-50 S 5 '25
Thirty years of hail experience. J. B. Cullison, jr. Spectator 112:12-13 Ap 17 '24
Unfavorable experience of insurance companies writing hail insurance in Canada in 1923. Econ W n s 27:675 My 10 '24

INSURANCE, Health
Are we apt students? W. T. Grant. Spectator 112:17+ Mr 13 '24
Cost of national health insurance in Great Britain in 1922. Econ W n s 30:423 S 19 '25
Educational ideals in health and accident insurance. S. S. Huebner. Spectator 115:3-4+ S 3; 35-6 S 10 '25; Same. Econ W n s 30:417-20 S 19 '25
1824-1924: achievements in the field of personal insurance a century ago. H. W. Dingman. Econ W n s 28:886-7 D 20 '24
Experience of a large approved society with national health insurance in Great Britain. Econ W n s 30:636-7 O 31 '25
Health insurance. J. W. Zeller. Spectator 112: 35+ Ja 24 '24
Insurance of doctors' bills. Economist 101:447-8 S 19 '25; Abstract. Monthly Labor R 21: 1172-3 N '25
Invalidity insurance in Denmark. Monthly Labor R 17:1392-3 D '23
Medical profession and health insurance in Great Britain. A. Cox. Int Labour R 11: 632-58 My '25
National health insurance in England from 1918 to 1923. Int Labour R 9:587-600 Ap '24
Operations of registered sick funds in Sweden. Monthly Labor R 21:161-2 Jl '25
Past year in American health and accident insurance. C. O. Pauley. Econ W n s 30:491-2 O 3 '25
Safeguarding an income by means of insurance. Econ W n s 28:741-4 N 22 '24
Selling accident and health insurance. Spectator 112:36-7 Mr 27; 19+ Ap 17; 19+ My 1 '24
Sickness insurance. 133p International labour office, Geneva '25
Sickness insurance as written in Great Britain. Econ W n s 30:169-70 Ag 1 '25
Sickness insurance common abroad. O: P. Geier. Iron Age 116:216 Jl 23 '25
Sickness insurance for the middle classes. Economist 99:807 N 22 '24
Sickness insurance statistics; an attempted solution. L. Teleky. J Ind Hygiene 5:434-46 Mr '24
Suggests reforms. J: J. Crowley. Spectator 113:34 S 18 '24
When sickness stops wages, what? W: B. Bailey. Ind Management 67:31-3 Ja '24
Workers' sickness insurance in Austria. F. Hawelka. Int Labour R 8:811-29 D '23

Moral hazard

Moral hazard in health and accident insurance. R. R. Harrold. Econ W n s 28:348-9 S 6 '24

INSURANCE, Industrial
Experience with mutual benefit associations in the United States. 155p National ind. conference bd., New York '23
Growth of industrial insurance protection. M. H. Schoenfeld. charts Ann Am Acad 121:sup 38-44 S '25
Industrial insurance an American plan feature. Eng & Contr (Bldgs) 62:178 Jl 23 '24
Industrial insurance and thrift. W: C. Morton. Spectator 114:31-2 F 26 '25
Industrial insurance: how it serves and whom it serves. E. J. Traveler. Econ W n s 28: 346-7 S 6 '24; Same. Spectator 113:21-2 Ag 28 '24
Latest proposal for all-inclusive national insurance for British workers. Econ W n s 28: 314-15 Ag 30 '24

See also Benefit societies; Insurance, Group; Insurance, Health; Insurance, Social; Insurance, Strike; Insurance, Trade union; Insurance, Unemployment; Insurance, Workmen's compensation; Old age pensions; Workmen's compensation

Agents

How to get results. W: C. Morton. Spectator 113:27-9 N 20 '24

INSURANCE, Industrial—*Continued*

Costs

Striking reduction of the expense ratio of industrial life insurance in Great Britain; Prudential assurance company, ltd., of London. A. R. Marsh. Econ W n s 27:452 Mr 29 '24

INSURANCE, Liability

Are you fully insured? C: W. Whitehair. Pet Age 13:60+ My 1 '24

Insurance for the benefit of third persons under statute. J. P. Chamberlain. Econ W n s 29:345-6 Mr 7 '25

Public liability insurance as a bulwark of commercial credit. H: S. Ives. Econ W n s 27:419-21 Mr 22 '24; Same. Credit M 26:8+ Mr '24

See also Insurance, Automobile; Insurance, Consumers' liability; Insurance, Employers' liability; Insurance, Workmen's compensation

Finance

"Premiums written" and "losses paid," in relation to the profits of liability insurance companies. E: C. Stone. Econ W n s 29:309-11 F 28 '25

Rates

Insurance rates are going down. Gas Age 54: 829-30+ D 13 '24

Liability insurance rates reduced through association efforts. Bus Transportation 3:39 Ja '24

New rate revision on public liability insurance. C: B. Scott. N E L A Bul 11:491-2 Ag '24

INSURANCE, Life

Accomplishments and purposes of the actuarial societies. A. B. Wood. Spectator 113:33-7 N 27 '24

Case that counts. H: Bruere. Spectator 114: 35+ Mr 26 '25

Century's experience with sub-standard life insurance. H. W. Dingman. Econ W n s 27:201-3 F 9 '24

Common aims of the light and power industry and life insurance. H. Fiske. Econ W n s 29:921-3 Je 27 '25

Complete insurance of the economic value of human life. A. R. Marsh. Econ W n s 30:416 S 19 '25

Conservation of business. Spectator 113:23-4 Ag 21 '24

Don't be sold insurance—buy it. R. L. Cox. Nation's Business 12:48+ My '24

Essence of life insurance. W: Breiby. 167p Spectator co., New York '24

Fireside canvass. E: Gray. Spectator 114: 33-4 Mr 26 '25

Greatest service of life insurance. R. W. Stevens. Spectator 113:29 D 18 '24

Have you a loan on your life insurance? W: T. Nash. Spectator 115:3+ Jl 23 '25

How banks link up life insurance with commercial organizations. J. H. Ardrey. Econ W n s 29:633-5 My 2 '25

How hopes are shattered. W: T. Nash. Spectator 113:29-30 O 16 '24

How to build business. W: T. Nash. 336p Spectator co., Chicago, New York '24

Human value of business compared with the property value. S. S. Huebner. Econ W n s 28:129-32, 168-71, 205-7 Jl 26-Ag 9 '24; Excerpts. Spectator 113:13-16 Jl 31 '24

Information about taxation and estate settlements of assistance to life insurance agents. E. P. Huttinger. Econ W n s 27:421-2 Mr 22 '24

Insurance fables for life underwriters. W: Alexander. 45p Spectator co., New York '24

Is it best to insure? W: Miller. Spectator 112: 25-7 F 14 '24

Largest negro commercial enterprise in the world. E. D. Walrond. il Forbes 13:503-5+ F 2 '24

Life assurance from proposal to policy. H. H. Tayler and V: W. Tyler. 191p Pitman '24

Life insurance. S. S. Huebner. Rev. & enl. 496p Appleton '23

Life insurance. J. B. Maclean. 423p McGraw-Hill '24

Life insurance a stabilizer. A. F. Maxwell. Credit M 26:7-8 F '24

Life insurance and health conservation. J. A. Beha. Econ W n s 29:777-9 My 30 '25

Life insurance and its relation to estates and trusts. L. G. McDouall. Econ W n s 29: 489-90 Ap 4 '25

Life insurance and the bonus bill. O. Thorp. Spectator 113:27-9 Jl 24 '24

Life insurance and the community trust. R. Hayes. Econ W n s 27:743-4 My 24 '24

Life insurance business—sentiment, not selfishness. E. W. Randall. Spectator 115:31-2 O 29 '25

Life insurance buyer's guide. W: H. Lamb. 76p A. H. Cather pub. co., Birmingham, Ala. '24

Life insurance engineering. G. M. Lovelace. Prof Eng 8:13-14 N '23

Life insurance fundamentals. G. M. Lovelace. rev. ed. 257p Harper '25

Life insurance funds in relation to the country's economic development. A. R. Marsh. Econ W n s 28:740 N 22 '24

Life insurance furnishes the best medium through which the solvency of a community can be assured. A. Allmond. Spectator 115: 31 Ag 6 '25

Life insurance in 1950. F. H. Davis. Econ W n s 28:887-9 D 20 '24; Same. Spectator 113: 25-6 D 18 '24

Life insurance sales. Comm & Fin Chr 118:1201 Mr 15 '24 [continued monthly]

Option settlements and life insurance trusts from the standpoint of the proper function of life insurance companies. G. W. Cox. Econ W n s 29:273-5 F 21 '25

Princeton University case. Spectator 113:12 Jl 31; 7+ Ag 7 '24

Reasons for life insurance. W: Miller. Spectator 112:25-6 Mr 13 '24

Relation of life insurance to credit. W. F. Gephart. Econ W n s 27:237-40 F 16 '24

Relationship of post-war economic conditions to the amount of life insurance carried. G. Thomson. Econ W n s 28:347-8 S 6 '24

Response of life insurance to economic changes. C: G. Taylor, jr. Econ W n s 30: 489-90 O 3 '25

Shifting of occupations among wage earners as determined by occupational history of industrial policyholders. L: I. Dublin and R. J. Vane, jr. Monthly Labor R 18:732-40 Ap '24

Some things to know about life insurance and taxation. E. P. Huttinger. Spectator 112:13+ My 15 '24

Sound public opinion about life insurance as the nation's great reserve. W. L. Crocker. Econ W n s 28:849-50 D 13 '24

Status of the farmer. Spectator 113:28-9 O 2 '24

20-lessons in life insurance. R. M. Messick. 170p Western Baptist pub. co., Kansas City, Mo. '23

See also Annuities; Benefit societies; Insurance, Business; Insurance, Group; Insurance trusts; Mortality; *also* Actuarial society of America; American institute of actuaries; Association of life agency officers

Advertising

Advocates co-operative advertising for life insurance. J: A. Price. Ptr Ink 131:117-18+ Je 18 '25

Buyer of life insurance speaks his mind. C. F. Alward. Ptr Ink 126:137+ Ja 3 '24

Clinton Davidson's novelty advertising helped secure interviews and sales. Spectator 114:33+ F 19 '25

Co-operative advertising strengthens the insurance salesmen's argument. Ptr Ink 126: 117-18 Ja 31 '24

Financial statement drops its funereal dignity; Metropolitan Life includes a selling message. Ptr Ink 131:153-4 Ap 16 '25

Human touch of the Metropolitan Life. Ptr Ink 129:121-2+ D 4 '24

Metropolitan life insurance evaluates its advertising. Ptr Ink 131:161-2+ Je 11 '25

INSURANCE, Life—Advertising—*Continued*

Negative appeal scores again. J: A. Murphy. Ptr Ink M 10:48+ Je '25

Obstacles in the way of life insurance advertising. E. G. Manning. Ptr Ink 133:73-4+ O 22 '25

Protecting the future by the printed word. D. G. Weiss. Spectator 115:39+ O 22 '25

Putting more life in life insurance. W. H. Griffin. Ptd Salesmanship 45:564-5 Ag '25

What's wrong with life insurance? A. Stote. Ptr Ink 128:81-2+ Ag 14 '24

Why not a more specific appeal in life insurance advertising? R. A. Gibney. Spectator 112:18+ Ja 24 '24

Agents

Ability to sell. M. J. Ream. 64p Williams & Wilkins co., Baltimore '24

Agency problem—how to meet it. H. D. Hart. Spectator 114:35 Mr 19 '25

Approach studied at third daily session of convention. Spectator 113:18-19 Jl 31 '24

Budget system of selling insurance builds business. F. H. Williams. Spectator 113:19-20 S 4 '24

Building for the future. W: C. Morton. Spectator 115:33-4 S 24 '25

Building up an agency. H. D. Hart. Spectator 115:36-8 S 17 '25

Buyers of life insurance offer suggestions to salesmen. F. H. Williams. Spectator 114:26 Ja 8 '25

Charlie Ferrell's "dead book." W: T. Nash. Spectator 113:3-4+ Jl 24 '24

College graduate as a life insurance salesman. Ptr Ink 132:93-4 Jl 2 '25

Debit in the development of character and caliber. W: C. Morton. Spectator 115:35-6 Ag 27 '25

Debit is what you make it. W: C. Morton. Spectator 114:31-2 Je 18 '25

Easy way to sell life insurance. W. R. Letcher. Spectator 113:30-1 N 13 '24

Educational courses. H. M. Holderness. Spectator 115:15 O 8 '25

Efficiency should be the chief desire of every life insurance agent. Spectator 114:35+ F 26 '25

Eliminating waste in soliciting. Spectator 115:37+ Ag 27 '25

Few observations on agency selection. W: Thornton. Spectator 112:24+ F 21 '24

Finding salesmen with the soul of service. J. H. Collins. Ptr Ink M 9:29-30+ N '24

Get more business by planning every phase of selling activities. F. H. Williams. Spectator 114:35 Ap 16 '25

Getting an invitation to remain. Spectator 114:35 Ap 2 '25

Helpful hints to debit men. W: C. Morton. Spectator 115:27-8 Jl 16 '25

Helps for hustlers. W: C. Morton. Spectator 114:31-2 My 21 '25

How a new world's record was established by C. H. Smith, who wrote 262 cases in one month. Spectator 113:21-2+ O 30 '24

How I made my largest sales. S: Heifetz. il System 46:423-4+ O '24

How not to sell insurance. W: Alexander. Spectator 112:38 Mr 6; 22 Mr 20; 40 Ap 3; 38 Ap 17; 28 My 1; 18+ My 15; 26 My 29; 113:20 Jl 10; 32 Jl 24; 17 Ag 7 '24

How one man's problem was solved. M. Morton. Spectator 112:23-4 Ja 10 '24

How to conserve business. W: C. Morton. Spectator 113:32-3 N 13 '24

How to pay for $50,000 or more during the remaining months of 1925. J. E. Bragg. Spectator 115:9 Ag 20 '25

Increasing production. F. Lindsay. Spectator 113:27-8 O 23 '24

James E. Kavanaugh makes hit at Baltimore. Spectator 114:17 My 28 '25

Just common sense. W: C. Morton. Spectator 113:15-16+ Ag 7 '24

Keeping the insurance man at work. C. K. White. Spectator 114:31+ Ja 29 '25

Life insurance as a vocation. Spectator 114:31 Ap 23 '25

Life insurance salesman's personal physical fitness builds business. F. H. Williams. Spectator 113:24-5 D 11 '24

Life insurance service. H: S. Nollen. Spectator 112:22-3 F 21 '24

Life underwriting as a career. E: A. Woods. 230p Harper '23

Making your business grow. W: Miller. Spectator 112:23-4 Ja 3 '24

Managers discuss problems of agency training. Spectator 113:17-18 Jl 31 '24

Material aids to efficiency. F. Lindsay. Spectator 113:28-30 S 25 '24

Meeting competition in the field. F. Lindsay. Spectator 115:35+ S 24 '25

Old timer tells what he's learned about evening selling. F. H. Williams. Spectator 114:29+ Ap 30 '25

One hundred ways of canvassing for life insurance. W: Alexander. 361p Spectator co., Chicago, New York '24

Optimism about prospect's health helps sales. F. H. Williams. Spectator 113:23-4 O 30 '24

Personal contest with rival salesman will boost business. F. H. Williams. Spectator 114:36-7 F 5 '25

Picking sure-fire salesmen by the Phoenix plan. G: Mansfield. Forbes 14:606-7 Ag 15 '24

Planning a year's sales program and sticking to it. E. C. May. Sales Management 7:1709-10+ N '24

Prerequisites to life insurance salesmanship. F. Lindsay. Spectator 112:22-3 Ap 24 '24

Returns under agency contracts. A. Linton. Spectator 113:27-9+ N 13 '24

Salesmanship. M. N. Bond. Spectator 114:33-4 Ap 2 '25

Selecting the new type of salesman. G. V. Cope. Spectator 114:31+ F 19 '25

Selection of risks by both the agents and the medical departments of life insurance companies. H: Moir. Econ W n s 28:705-6 N 15 '24

Selling life insurance in summer. F. H. Williams. Spectator 113:26-7 Ag 21 '24

$70,000 race for sales. W. C. Schuppel. System 47:488-9+ Ap '25; Same. Spectator 114:29 Ap 23 '25

Simple plan for a sales talk. C: K. Brust. Spectator 114:29-30 F 19 '25

Some don'ts of importance. W: C. Morton. Spectator 113:24-5 S 4 '24

Story of E. J. Schellentrager's success. Spectator 115:36-7 Ag 20 '25

Technique of the approach. C: J: Rockwell. Spectator 114:29-30 Ja 29 '25

These sales records ought to stimulate your salesmen. W. Bates. Ptr Ink 130:33-4+ Mr 5 '25

Training life insurance agents. H. D. Hart. Spectator 113:25 S 18 '24

Well-balanced agency. W. E. May. Spectator 114:35-6 F 19 '25

What should a company ask the prospective salesman? L. A. Cerf. Ptr Ink M 8:59-60+ F '24

What to say. J: B. Duryea. 206p National underwriter co., Cincinnati, Chicago; Rough notes co., Indianapolis '24

Finance

Annual statements of insurance companies. Econ W n s 29:170-1, 279 Ja 31, F 21 '25

Continental life insurance company, Wilmington, Delaware. Econ W n s 29:63 Ja 10 '25

Expense rate per cent of mean insurance in force of fifty-six life insurance companies from 1904-1923, inclusive. Spectator 112:9-11 Je 26 '24

Expense rate per cent of mean insurance in force of sixty-five life insurance companies from 1905-1924, inclusive. Spectator 114:4 Ap 23 '25

Factor in economy; investments of insurance funds. Spectator 113:22-3 D 11 '24

Farm mortgage loans of life insurance companies as a support to American agriculture. L. A. Phillips. Econ W n s 27:94-6 Ja 19 '24

Insurance companies and the railroads. Spectator 113:28 D 25 '24

INSURANCE, Life—Finance—*Continued*
Investments of life assurance companies in Australia. C. B. Messenger. Spectator 112: 27+ My 1 '24
Life assurance; new business and expenses; the net earnings from interest, etc. Economist 99:sup4-13 Jl 12 '24
Life insurance business in 1923; tabulation. Spectator 112:41+ Ap 17 '24
Life insurance business in 1924. Spectator 114:4+ Ap 30 '25
Life insurance funds as home builders. C. P. Peterson. Spectator 113:23-4+ D 25 '24
Life insurance payments to the American and Canadian public in 1923. A. R. Marsh. Econ W n s 28:380 S 13 '24
Pacific mutual life insurance company of California, Los Angeles, Cal. Econ W n s 29:171 Ja 31 '25
Peoria Life tops hundred million mark. il Spectator 113:8-9 N 27 '24
Percentages of gain and loss exhibit for ten years. Spectator 115:9-11 S 24 '25
Principles of investment applicable to the business of life insurance. C. B. Messenger. Econ W n s 27:490-2 Ap 5 '24
Question of adequate reserves for total disability clauses in life insurance policies. H. P. Dunham. Econ W n s 28:237-9 Ag 16 '24
Rate of interest earned by 71 American life insurance companies. Spectator 112:4+ My 29 '24
Real estate finance and the nation's welfare. Comm & Fin Chr 119:2226-9 N 15 '24
Ten years' growth and waste. Spectator 113: 5, 37 O 2 '24
Transactions of life insurance companies, 1923 and 1924. Spectator 114:13 Mr 19; 8-9 Ap 16 '25
Transactions of ten largest life insurance companies; an analysis of annual reports for 1923; tabulation. Spectator 112:7 Mr 13 '24
Transactions of ten largest life insurance companies; an analysis of annual reports for 1924; tabulation. Spectator 114:11 Mr 26 '25

History

Beginnings of life insurance. Econ W n s 29: 203-4 F 7 '25
1824-1924: achievements in the field of personal insurance a century ago. H. W. Dingman. Econ W n s 28:886-7 D 20 '24
Fathers of level-premium Mutual life insurance. W. H. Hazard. Spectator 113:26-7 O 2 '24

Inspection

Importance and necessity of inspections. J: M. Laird. Spectator 115:33+ O 29 '25

International aspects

Life insurance in international law; claims against Germany. F: L. Hoffman. Spectator 112:23-4+ Je 26 '24

Mathematics

Mathematical principles of finance. F: C: Kent. 253p McGraw-Hill '24
Mathematical theory of life insurance. C. H. Forsyth. 74p Wiley '24
Mathematics of investment. W: L. Hart. 220p Heath '24
Mathematics of life insurance. L. W. Dowling. 123p McGraw-Hill '25

Medical aspects

Insurance; its medico-legal aspects. F. R. Stoddard, jr. Econ W n s 27:273-5 F 23 '24

Medical examinations

Increasing responsibilities of the medical officers of life insurance companies. H: W. Cook. Econ W n s 27:889-90 Je 21 '24
Life insurance examination. F. W. Foxworthy, ed. 738p C. V. Mosby co., St Louis '24
Life insurance without medical examination; abstracts. F. B. Meade. Spectator 115:31-3+ N 12 '25; Econ W n s 30:597-9 O 24 '25
Life insurance without medical examination as viewed by the companies of the American life convention. T: W. Blackburn. Econ W n s 29:672-3 My 9 '25
Life insurance without medical examination in Canada. V. R. Smith. Econ W n s 28:453-6 S 27 '24
Life insurance without medical examination in the United States. Econ W n s 29:135 Ja 24 '25
Non-medical life insurance—what may be hoped for from its use. C. F. Cross. Spectator 114:31-2+ Mr 5 '25; Same. Econ W n s 29:382-4 Mr 14 '25
Report on non-medical. Spectator 114:30-1 Ap 30 '25

Moral hazard

Moral hazard in life insurance. J. V. Barry. Econ W n s 28:816 D 6 '24

Non-medical

See Insurance, Life—Medical examinations

Policies

Accidental death feature in life insurance policies. A. Hunter. Spectator 114:13-15+ My 28 '25; Same. Econ W n s 29:815-17 Je 6 '25
A.A.E. insurance service. Prof Eng 9:13+ D '24
Banker and life insurance; abstracts. A. C. Robinson. Econ W n s 30:202-4 Ag 8 '25; Spectator 115:29-31 Jl 23 '25
British public and the different forms of life insurance policies. Econ W n s 29:133-4 Ja 24 '25
Casualty benefits in life insurance policies. C. E. Cale. Econ W n s 27:346-8, 385-7 Mr 8-15 '24
Convertible term life insurance in Great Britain. Econ W n s 30:96-7 Jl 18 '25
Decision upholds income policy. Spectator 115: 4+ Ag 6 '25
Disability protection with life insurance. H. W. Dingman. Econ W n s 27:813-14 Je 7 '24
Endowing colleges and universities by life insurance bequests. S. L. Morton. Econ W n s 30:490-1 O 3 '25; Excerpts, Spectator 115:27+ O 8 '25
Fundamentally solvent. T: W. Blackburn. Spectator 115:37+ O 22 '25
Half rate life insurance. Spectator 112:17 My 8 '24
Ideal insurance policy. W: C. Morton. Spectator 113:26-7 D 25 '24
Increasing demand for bequest insurance. P. F. Clark. Econ W n s 27:780-1 My 31 '24
Insurance commissioners and the propriety of disability coverage in life insurance policies. A. R. Marsh. Econ W n s 28:272 Ag 23 '24
Insurance company has to pay typhoid death loss on accident clause. Eng N 93:392 S 4 '24
Insuring of students and alumni for the benefit of the Alma Mater. J. E. Kavanagh. Econ W n s 30:528-31 O 10 '25; Abstract. Spectator 115:13 O 8 '25
Life contract with half-premium rate for first five years is under fire. Spectator 113:11+ D 11 '24
Life income policy. Spectator 115:33+ Jl 23 '25
Life insurance as a means of providing the executor of an estate with needed cash. E: A. Woods. Econ W n s 28:600-1 O 25 '24
Life insurance as a method of safeguarding charitable bequests against inheritance taxation. E. P. Huttinger. Econ W n s 29:21-3 Ja 3 '25
Life insurance trusts and the making of trust agreements in life insurance contracts. C. Bullock. Econ W n s 29:417-20 Mr 21 '25
Lump sum life insurance and its uses. C. S. Beck. Econ W n s 30:237-9 Ag 15 '25
Need of intensive inspection of disability claims under life insurance policies. Econ W n s 29:384-5 Mr 14 '25
Perfect protection policy. Spectator 113:13+ D 25 '24

INSURANCE, Life—Policies—*Continued*

Question of adequate reserves for total disability clauses in life insurance policies. H. P. Dunham. Econ W n s 28:237-9 Ag 16 '24

Some facts about the policy. F. Lindsay. Spectator 112:23-5 My 22 '24

Some thoughts on life insurance conservation. O. Hann. Spectator 112:36-7 Ap 3 '24

To meet the budgets we leave behind. J: A. Stevenson. il Nation's Business 12:22-3 S '24

Which is the best life insurance policy? P. C. H. Papps. Econ W n s 27:921-2 Je 28 '24

Wisconsin commissioner argues against disability and double indemnity. W. S. Smith. Spectator 113:7+ D 11 '24

Writing new insurance on the lives of old policyholders. W: Thornton. Spectator 112: 13-14 Ja 24 '24

See also Insurance, Life—Tontine policies

Rates

Extra risks in connection with life assurance. W. T. May. Econ W n s 30:346-8, 381-2 S 5-12 '25

Reinsurance

Reinsurance of the American business of a Dutch life insurance company by the United States life insurance company. Econ W n s 28:782 N 29 '24

Service

Service, the greatest part of insurance. W: C. Morton. Spectator 114:27-8 Ap 23 '25

Statistics

Combined death and expense rate per cent of mean insurance in force of sixty-five life insurance companies from 1905 to 1924, inclusive. Spectator 114:5 My 7 '25

Combined surrender and lapse terminations. Spectator 115:5+ Ag 6 '25

Combined death and expense rate per cent of mean insurance in force of forty-six life insurance companies, 1904-1923. Spectator 113:8 Jl 17 '24

Death rate per cent of mean insurance in force of sixty-five life insurance companies, 1904-1923, inclusive. Spectator 112:19 Je 19 '24

Life insurance, 1921-1924. Survey of Cur Business 30:180-1 F '24 [continued quarterly]

Per cent to mean policies in force of terminations by surrender or lapse of twenty-nine life insurance companies from 1904 to 1923, inclusive; tabulation. Spectator 113:17 Ag 14 '24

Remarkable growth of life insurance in the United States in 1923. A. R. Marsh. Econ W n s 27:128 Ja 26 '24

Ten years' growth and waste (1915-1924). Spectator 114:4 Je 25 '25

Terminations by surrender and lapse. tables Spectator 115:4-5 Jl 23 '25

Thirty years of life insurance. Spectator 114: 5+ Je 18 '25

Volume of new life insurance written in the United States in 1923. Econ W n s 27:135 Ja 26 '24

Study and teaching

Higher education and research in life insurance. F: L. Hoffman. Spectator 112:21+ Mr 20 '24

Taxation

Courts and the federal taxation of the proceeds of life insurance. A. R. Marsh. Econ W n s 27:920 Je 28 '24

Federal estate tax and the proceeds of life insurance policies. A. R. Marsh. Econ W n s 29:596 Ap 25 '25

Frick tax case. Spectator 114:15 Ap 23 '25

Life insurance not taxable; Frick tax case. Spectator 113:7+ Je 26; 11-12 Ag 14 '24

Life insurance protection and savings as affected by special insurance taxes. E: E. Rhodes. Econ W n s 27:669-71 My 10 '24

Present taxation of life insurance in the United States. A. L. Key. Econ W n s 28:633-4 N 1 '24

Tontine policies

Final chapter of the story of tontine life insurance in the United States. Econ W n s 27:674-5 My 10 '24

War risks

Life insurance problems involved in writing army and navy risks. H: Moir. Econ W n s 28:57-8 Jl 12 '24

Australasia

Life insurance in Australasia in 1923. A. R. Marsh. Econ W n s 28:668; 30:236 N 8 '24, Ag 15 '25

Canada

Life insurance beneficiaries as defined in the uniform life insurance act of the Canadian provinces. Econ W n s 29:206-7 F 7 '25

Life insurance in Canada in 1923 and during the past half century. A. R. Marsh. Econ W n s 27:560 Ap 19 '24

Life insurance in Canada in 1924. Econ W n s 29:564-5 Ap 18 '25

Europe

Management problems of European insurance companies since the armistice. A. O. Holwerda. Harvard Business R 2:398-408 Jl '24

Finland

Life insurance in Finland in 1924. Econ W n s 29:675 My 9 '25

France

Life insurance in France in 1923. A. R. Marsh. Econ W n s 28:164 Ag 2 '24

Great Britain

British life assurance development. Spectator 115:4 N 12 '25

British plan for reducing income taxes through life insurance. A. R. Marsh. Econ W n s 29:524 Ap 11 '25

Life insurance in Great Britain as summarized by the Board of trade report of 1922. A. Nutting. Econ W n s 28:278 Ag 23 '24

Life insurance in Great Britain in 1924. A. R. Marsh. Econ W n s 30:164 Ag 1 '25

Pearl assurance company, limited, annual meeting, Feb. 26. Economist 100:414-15 F 28 '25

Prudential assurance company, limited, annual meeting, Mar. 5. Economist 100:460-3 Mr 7 '25

Refuge assurance company, limited, annual meeting, Manchester, Mar. 2. Economist 100:464-5 Mr 7 '25

Single premium assurance with loans. Economist 99:1049-50 D 27 '24

India

Life insurance in India in 1923. Econ W n s 29:603 Ap 25 '25

Japan

Japanese post office life insurance in 1923. Econ W n s 29:709-10 My 16 '25

Mortality experience of a Japanese life insurance company. F. L. Hoffman. Spectator 113:23-5 O 2 '24

Post office life insurance in Japan. F: L. Hoffman. Econ W n s 29:239-40 F 14 '25; Same. Spectator 114:33-5 F 5 '25

Mexico

Life insurance conditions in Mexico. W. C. Hill. Econ W n s 29:600-1 Ap 25 '25

Porto Rico

Conditions affecting life insurance in Porto Rico. Econ W n s 30:131-2 Jl 25 '25

Life insurance in Porto Rico in 1923. Econ W n s 28:207 Ag 9 '24

Scotland

Scottish provident institution. Economist 98: 796-7 Ap 12 '24

Sweden

Life insurance in Sweden in 1924. Econ W n s 30:638 O 31 '25

INSURANCE, Life—*Continued*

Tropics

Mortality and sanitation of the tropics in relation to life insurance. F: L. Hoffman. Spectator 112:15+ Ja 24 '24; Same. Econ W n s 27:166-7 F 2 '24

United States

Business of American life insurance companies in 1924. A. R. Marsh. Econ W n s 29:668 My 9 '25
Business of 1924. Spectator 114:15 Ja 8; 18-19+ Ja 15; 17 Ja 22; 12 F 5 '25
Life insurance in the United States in 1923. A. R. Marsh. Econ W n s 27:596 Ap 26 '24
Life insurance of record volume. Bradstreet's 53:66 Ja 24 '25
New and retired old line legal reserve companies. Spectator 114:6 Ja 29 '25
New high record established by life insurance sales in the United States in 1924. Econ W n s 29:62-3 Ja 10 '25
New life insurance written by American companies in the first five months of 1925. Econ W n s 29:890 Je 20 '25
New life insurance written in the United States in 1924. Econ W n s 29:130-1 Ja 24 '25
New life insurance written in the United States in the first three quarters of 1925. Econ W n s 30:603 O 24 '25
Sales of life insurance in relation to business conditions in the first six months of 1924. A. R. Marsh. Econ W n s 28:92 Jl 19 '24
Trend of business movements. Published in monthly numbers of Survey of current business

See also Aetna life insurance company; Inter-Southern life insurance company

INSURANCE, Live stock

Live stock insurance as developed in Great Britain. G. Lockwood. Econ W n s 29: 780-3, 818-19 My 30-Je 6 '25

INSURANCE, Marine

Arnould on the law of marine insurance and average. J. Arnould. 11th ed. 2v Stevens and sons, ltd., London '24
Fifty years of marine insurance. S. A. Boulton. Econ W n s 27:131-3, 168-70 Ja 26-F 2 '24
General average in marine insurance as a typification of universal equity. Econ W n s 30:599-601 O 24 '25
Hints for cargo insurance buyers. T: Buel. Am Ind 25:43-5 O '24
How we cover our marine risks. J. S. Hoffman. System 47:654-5 My '25
Marine insurance modernized. C: I. Clark. Spectator 112:40-1 F 28 '24
Marine insurance underwriters get data from Japan. Marine Eng 29:45 Ja '24
Romance of marine insurance. W: D. Winter. Econ W n s 27:885-7 Je 21 '24
Yachts as a source of marine insurance premiums. M. Higgins. Spectator 114:20-1 sec 2 My 7 '25

See also Lloyd's, London

Adjustment of claims

How to make marine insurance claims. R. L. Boon. Econ W n s 27:59-60 Ja 12 '24; Same. Am Exporter 94:22-3 Ap '24

Finance

Business under difficulties. Economist 99:sup 18-19 Jl 12 '24
Reports show insurance slump. Marine R 54: 284-5 Jl '24
Win profit in marine insurance. Marine R 54: 127 Ap '24

Policies

New warehouse to warehouse clause adopted by British marine underwriters. Econ W n s 28:135, 171 Jl 26-Ag 2 '24
Present status of the new "warehouse to warehouse" clause in British marine insurance. M. M. Mitchell. Econ W n s 28: 276 Ag 23 '24
Representations and warranties in marine insurance policies from the standpoint of the assured. Econ W n s 29:494-5 Ap 4 '25

Australasia

Insurance pools in relation to trade pools in Australasia. Econ W n s 30:493-4 O 3 '25

Great Britain

Business of British marine insurance companies in 1923. Econ W n s 28:747 N 22 '24
Business of British marine insurance companies in 1924. Econ W n s 30:495 O 3 '25
The policy as a legal essential of a valid contract of marine insurance in Great Britain. Econ W n s 29:346-8 Mr 7 '25
Unsatisfactory results of British marine insurance in 1924. Econ W n s 29:783 My 30 '25

Russia

Government marine insurance in soviet Russia. P. Winogradoff. Econ W n s 30:61-3 Jl 11 '25

INSURANCE, Motor bus

Fire and theft insurance for buses. Bus Transportation 3:323 Jl '24
Liability insurance rates reduced through association efforts. Bus Transportation 3:39 Ja '24
Report of A.E.R.A. committee on insurance. Elec Ry J 66:583-4 O 10 '25

INSURANCE, Personal effects

Personal effects insurance. R. C. Walsh. il Spectator 114:4+ sec 2 My 7 '25

INSURANCE, Plate glass

Plate glass insurance. G: H. Otto. Spectator 112:9 sec 2 Ap 10 '24
Plate glass losses. F. S. Garrison. Spectator 114:16+ Je 11 '25

INSURANCE, Profits

Some forms of insurance for fiduciary property and income. G: E. Crosby, jr. Econ W n s 30:345 S 5 '25

INSURANCE, Rain

How rain insurance is regarded by one insurance company. Spectator 113:30 Ag 14 '24
Rain insurance in theory and practice. P. A. Normand. Econ W n s 27:597-8 Ap 26 '24

INSURANCE, Reciprocal

Reciprocal exchanges as compared with stock insurance companies. M. C. Kennedy. Econ W n s 30:309-11 Ag 29 '25
Reciprocal insurance, from the standpoint of what it gives the insured. C: Harris. Econ W n s 27:381-4 Mr 15 '24

INSURANCE, Rent

Letter from an agent on rent and rental value insurance. Spectator 114:15 sec 2 My 7 '25
Rent and rental value insurance explained. il Spectator 112:12+ sec 2 Ap 10 '24
Some forms of insurance for fiduciary property and income. G: E. Crosby, jr. Econ W n s 30:345-6 S 5 '25

INSURANCE, Sickness. See Insurance, Health

INSURANCE, Social

Administrative machinery of social insurance. J. L. Cohen. Int Labour R 11:474-508 Ap '25
General problems of social insurance. 136p International labour office, Geneva '25
International labour organisation and social insurance. Int Labour R 11:763-83 Je '25
Social insurance and international legislation. K. Krzeczkowski. Int Labour R 8:637-43 N '23
Social insurance benefits. A. Manes. Int Labour R 11:611-31 My '25
Unification of social insurance. K. Pribram. Int Labour R 11:303-17 Mr '25
Workmen's compensation and social insurance. Published in monthly numbers of Monthly labor review

See also Insurance, Health; Insurance, Industrial; Insurance, Unemployment; Insurance, Workmen's compensation; Old age pensions

INSURANCE, Social—*Continued*

Finance

Financial resources of social insurance. H. Korkisch. Int Labour R 10:909-34 D '24

Financial systems in social insurance. J. Ferdinand-Dreyfus. Int Labour R 10:583-606 O '24

Australia

Project of national insurance for industrial workers in Australia. Econ W n s 30:133-5 Jl 25 '25

Belgium

Belgian law on insurance of workers against old age and premature death. A. L. Whitney. Monthly Labor R 20:893-5 Ap '25

Bulgaria

Bulgarian law on social insurance. Monthly Labor R 20:896-9 Ap '25

Czechoslovakia

New social insurance act of the Czechoslovak Republic. L. Winter. Int Labour R 11:451-73 Ap '25

Germany

Die lasten der deutschen sozialversicherung. O. Heinemann. Stahl & Eisen 44:1772-5 D 25 '24

Plan for the reorganisation of social insurance in Germany. R: Freund. Int Labour R 11:1-14 Ja '25

Social insurance legislation in Germany, 1923. Monthly Labor R 19:205-9 Jl '24

Great Britain

How social betterment in Great Britain is affecting the Exchequer. Econ W n s 30: 618-19 O 31 '25

Program of enlarged social insurance proposed by the British government. Econ W n s 29:674-5 My 9 '25

Public expenditures on social services in Great Britain. Econ W n s 29:522 Ap 11 '25

Poland

Social insurance in Poland. Int Labour R 12: 535-42 O '25; Same. Econ W n s 30:672-4, 710-11 N 7-14 '25

Sweden

Social insurance in Sweden. E. Liedstrand. Int Labour R 9:177-95 F '24; Abstract. Monthly Labor R 18:1345-9 Je '24

INSURANCE, State and compulsory

Belgian law on insurance of employees against old age and premature death. Monthly Labor R 21:410-13 Ag '25

Common problems of insurance and public utility enterprises. H: S. Ives. Econ W n s 27:600-2 Ap 26 '24

Compulsory automobile insurance; bill before recess committee of Massachusetts legislature. W. E. Roesch. Spectator 114:9+ Ja 22 '25

Contributory insurance scheme proposed by Chancellor Churchill of Great Britain. Comm & Fin Chr 120:2361 My 9 '25

Five years of compulsory accident insurance in Switzerland. Int Labour R 10:837-53 N '24

Government marine insurance in soviet Russia. P. Winogradoff. Econ W n s 30:61-3 Jl 11 '25

Insurance and the state. H: S. Ives. Econ W n s 29:707-8 My 16 '25

Italy's recently enacted unemployment insurance law. R. Angelone. Econ W n s 27: 489-90 Ap 5 '24

Japanese post office life insurance in 1923. Econ W n s 29:709-10 My 16 '25

Medical profession and health insurance in Great Britain. A. Cox. Int Labour R 11: 632-58 My '25

New social insurance scheme proposed by the British government. W. Churchill. Econ W n s 29:741-3 My 23 '25

Post office life insurance in Japan. F: L. Hoffman. Econ W n s 29:239-40 F 14 '25; Same. Spectator 114:33-5 F 5 '25

Projected French law establishing a state reinsurance monopoly. Econ W n s 29:926-7 Je 27 '25

Question of compulsory liability insurance for motor vehicles. W. E. Monk. Econ W n s 28:201-3 Ag 9 '24

State insurance monopoly law of Costa Rica. Econ W n s 28:924-5 D 27 '24

System of state insurance in soviet Russia. Econ W n s 28:165-8 Ag 2 '24

Three years of state insurance in soviet Russia. Econ W n s 29:527-9 Ap 11 '25

See also Insurance, Automobile; Insurance, Social; Insurance, Taxicab; Insurance, Workmen's compensation

INSURANCE, Strike

Strike insurance. J. W. Zeller. Spectator 112: 29 Ja 17 '24

INSURANCE, Surety and fidelity

Action on contract bonding. Eng N 94:155-6 Ja 22 '25

Corporate surety bond. G: A. Petersen. Spectator 112:11 sec 2 Ap 10 '24

Diminishing underwriting profits in the fidelity and surety business. Econ W n s 27:61-2 Ja 12 '24

Education of the public—necessity for carrying the gospel of corporate suretyship to the financial and business public in every village, town and city. J. R. Wilson. Spectator 114:29-30 Mr 12 '25

Fidelity and surety bond digest. H: S. Pettit and A. Caruthers, jr. 83p Eastern underwriter co., New York '25

Fidelity and surety insurance in relation to business credit. H: S. Ives. Econ W n s 27: 525-7 Ap 12 '24; Same. Credit M 26:10+ Ap '24

Fidelity bonds and their importance. V. Cullen. Spectator 112:5+ sec 2 Ap 10 '24

Importance of surety bonds to the building industry. G. Behymer. Econ W n s 30:95-6 Jl 18 '25

Less known kinds of surety bonds. J. W. Mason. Spectator 112:19+ F 14 '24

License, franchise and permit bonds. J. W. Mason. Econ W n s 27:240-1 F 16 '24; Same. Spectator 112:19 F 7 '24

Notes on selling bankers' blanket bonds. J: J. Iago. Spectator 115:27-9+ Jl 2; 27-30 Ag 13; 31-2 S 10; 27-9 N 5 '25

Opinion in the construction industry regarding the need of contract bond reform. Econ W n s 29:201-2 F 7 '25

Practicable plan for contract-bond underwriting reform. Econ W n s 28:925-6 D 27 '24

Right to recover on fidelity bond lost by failure to examine employee's accounts. Bankers M 110:989-92 Je '25

Skeptical opinion concerning the practicability of contract bond reform. Econ W n s 29:452 Mr 28 '25

Suretyship and its relation to credit. J. W. Mason. Econ W n s 27:849-50 Je 14 '24

Undesirable practices in the bonding business as viewed by the construction industry. Econ W n s 27:133-5 Ja 26 '24

See also Insurance, Forgery

Agents

Duties of agents and brokers in regard to contract bonds. Spectator 114:17 sec 2 My 7 '25

Handbook on fidelity and surety bonds. L. E. Mackall. 133p Luther E. Mackall, New York '24

Some things to talk about when selling surety bonds. B. J. McGinn. Spectator 113: 29-30 N 6 '24

Surety and casualty salesmanship. J. R. Wilson. 360p Spectator co., New York '24

Rates

Premiums and rates. R. H. Towner. Spectator 114:33+ Mr 12 '25

INSURANCE, Taxicab
Compulsory insurance on taxicabs. Spectator 113:3+ S 4 '24

INSURANCE, Theft
After the thief has gone. J. W. Mason. Spectator 112:29+ F 21 '24

See also Insurance, Automobile; Insurance, Burglary

INSURANCE, Tornado
Last five years break all records for farm tornado losses. Spectator 115:41 S 10 '25
Sale of windstorm insurance. S. H. Quackenbush. il Spectator 114:6+ sec 2 My 7 '25
Some ideas about windstorm and tornado coverage. il Spectator 112:6 sec 2 Ap 10 '24
Tornado and wind storm insurance. F: L. Hoffman. Spectator 113:3+ O 9; 3-4 N 20; 25-7 D 4 '24; 114:27-8 Ja 1; 3+ Ja 15; 3-4+ Ja 29; 27-30 F 12; 27-8+ Ap 9; 115:3-4+ Jl 16; 4+ N 5 '25; Same abr. Econ W n s 28:563-5, 780-2, 921-3 O 18, N 29, D 27 '24
Underwriting losses shown by fire and tornado-insurances on farm property in the Mid-Western states. Econ W n s 30:351 S 5 '25
Windstorm insurance as a necessary protection for mortgage loans. G: E. Crosby, jr. Econ W n s 30:23-4 Jl 4 '25

INSURANCE, Trade union
Insurance for workers. Spectator 113:5+ D 11 '24
Recent insurance projects of organized labor in the United States. Econ W n s 28:854-5 D 13 '24

INSURANCE, Unemployment
Advantages of unemployment insurance by industries instead of under a national or state scheme. H: Lesser. Econ W n s 27: 561-3 Ap 19 '24
American experiment in unemployment insurance by industry. B. M. Stewart. Int Labour R 11:318-28 Mr '25
Britain and her plague of doles. P. W. Wilson. il Nation's Business 13:52+ O '25
British unemployment insurance. Index p 12-14 S '25; Same. Econ W n s 30:456 S 26 '25
Can business prevent unemployment. S. A. Lewisohn and others. 226p [bibliog. p. 217-26] Knopf '25
Doles—Britain's "old man of the sea". W. I. King. Annalist 26:115 Jl 31 '25
English attitude toward unemployment insurance and study of unemployed claiming benefits. Monthly Labor R 18:1104-9 My '24
English expenditure on unemployment insurance. Monthly Labor R 20:1318 Je '25
English unemployment insurance and profit-sharing plan. Monthly Labor R 18:880-1 Ap '24
German decree on raising of funds for unemployment relief. Monthly Labor R 18:133 Ja '24
Group unemployment insurance. F: L. Hoffman. Spectator 112:19-22 Ap 24 '24
Industrial unemployment insurance. S. B. Ackerman. Management & Adm 8:647-9 D '24
Industrial unemployment insurance. F: L. Hoffman. Spectator 112:33-5 Ap 3 '24; Same. Econ W n s 27:598-600 Ap 26 '24
Italy's recently enacted unemployment insurance law. R. Angelone. Econ W n s 27:489-90 Ap 5 '24
New regulation of productive unemployment relief in Germany. Monthly Labor R 21: 142-4 Jl '25
Operation of English unemployment insurance act. Monthly Labor R 18:383-7 F '24
Operation of Unemployed workers' insurance act, Queensland. Monthly Labor R 20:144-6 Ja '25
Report on national unemployment insurance to July 1923. 231p Gt. Brit. Ministry of labour, London '23
Revision of unemployment insurance law in Denmark. Monthly Labor R 18:1343-4 Je '24
Sickness and invalidity insurance in Belgium. Monthly Labor R 19:200-2 Jl '24
Steadying the worker's income—establishment unemployment insurance plans. M. Gadsby. Monthly Labor R 18:850-72 Ap '24
Steadying the workers' income—trade-union and joint out-of-work benefit plans. M. Gadsby. Monthly Labor R 19:8-32 Jl '24
Study of claimants to unemployment benefit in Great Britain. Monthly Labor R 21:591-2 S '25
Suggestions on unemployment insurance. L. L. Stender. Management & Adm 9:228 Mr '25
Swiss federal law on unemployment insurance. Monthly Labor R 20:1122-3 My '25
Swiss law on unemployment insurance. Monthly Labor R 20:390-1 F '25
Unemployment allowances in Poland. Monthly Labor R 19:1340 D '24
Unemployment benefit in Great Britain. Int Labour R 10:296-9 Ag '24
Unemployment insurance. Engineer 137:149-50 F 8 '24
Unemployment insurance. Engineering 117: 182 F 8 '24
Unemployment insurance. Monthly Labor R 17:128-30, 1115-20 Jl, N '23
Unemployment insurance. 134p International labour office, Geneva '25
Unemployment insurance. J. J. H. Stansfield. Elec R (Lond) 94:287-8 F 22 '24
Unemployment insurance administered by individual employers in Great Britain. Econ W n s 27:314-15 Mr 1 '24
Unemployment insurance and placing in France. Int Labour R 12:87-9 Jl '25
Unemployment insurance by industry in Great Britain. Monthly Labor R 17:1373-5 D '23
Unemployment insurance from the standpoint of conditions in the United States. W: B. Bailey. Econ W n s 28:456-8 S 27 '24; Abstract. Spectator 113:9 S 25 '24
Unemployment insurance in the men's clothing industry of Chicago. H. A. Millis. Univ J of Business 2:157-68, 374-6 Mr-Je '24
Unemployment policy. Economist 98:1041-2 My 24 '24
Unemployment problem. E. D. Sebring. Taylor Soc Bul 9:177-85 Ag '24
University debaters' annual. E. M. Phelps. p. 101-56 H. W. Wilson co. '24
Would authorize unemployment insurance; bill presented at Albany. Spectator 112:3 F 28 '24

INSURANCE, Use and occupancy
Advice to department stores on fire prevention and insurance problems. W. F. Kimball. Credit M 27:16-17 O '25
Some forms of insurance for fiduciary property and income. G: E. Crosby, jr. Econ W n s 30:345-6 S 5 '25
Use and occupancy and profits insurance. J: Jenkins. Econ W n s 29:849-51 Je 13 '25
Use and occupancy insurance in relation to business credit. B. L. Whorf. Econ W n s 28:599-600 O 25 '24; Same. Credit M 26:16+ O '24
Use and occupancy insurance in relation to commercial credit. W. W. Ellis. Econ W n s 27:710 My 17 '24; Same. Credit M 26:17 My '24
Use and occupancy insurance; its relation to the accounting profession. L. J. Wolfe. J Account 39:281-92 Ap '25
Use and occupancy—the business life insurance. W. W. Ellis. Spectator 113:29-30 O 9 '24
We paid dividends regularly despite complete loss. J. F. McCarthy. System 45:826-7+ Je '24

Advertising
When the preferred prospect is sales-shy. G: H. Wicker. Ptr Ink 129:155-6+ N 13 '24

INSURANCE, Workmen's compensation
Amazing claims made for monopolistic state workmen's compensation insurance in the state of Washington. A. R. Marsh. Econ W n s 28:20 Jl 5 '24
Compensation business and acquisition cost. T: E. Braniff. Spectator 113:3+ S 25 '24

INSURANCE, Workmen's compensation—*Cont.*
Development of workmen's compensation insurance for metal mines. B. O. Pickard. U S Bur Mines Rep of Invest 2590:1-6 Mr '24 (typew); Same. Econ W n s 27:564-5 Ap 19 '24
Disturbing increase in the frequency of industrial accidents in 1923. A. R. Marsh. Econ W n s 27:524 Ap 12 '24
Oil companies show saving by carrying own liability risk. J. C. Chatfield. Nat Pet N 16: 21-2 Mr 19 '24
Practice of workmen's compensation insurance. S. B. Ackerman. 196p Spectator co., Chicago, New York '25
"Premiums written" and "losses paid," in relation to the profits of liability insurance companies. E: C. Stone. Econ W n s 29:309-11 F 28 '25
Statistics of employers' liability insurance in Great Britain. Econ W n s 29:890-1 Je 20 '25
Underwriting problems of workmen's compensation insurance. C. W. Hobbs. Econ W n s 30:273-5 Ag 22 '25
What competitive state insurance is. W: C. Archer. U S Bur Labor Statistics Bul 385: 35-40; Discussion. 40-50 '25
Workmen's compensation insurance. G. Kingsley. Taylor Soc Bul 10:226-31 O '25
Workmen's compensation insurance for American coal mines as written by the Associated companies. G. B. Butterfield. Econ W n s 28:309-11 Ag 30 '24
Workmen's compensation insurance including employers' liability insurance. G. F. Michelbacher and T: M. Nial. 503p McGraw-Hill '25

See also Insurance, Accident; Chicago brick exchange—Insurance bureau; Workmen's compensation

Rates

Can compensation insurance premiums be reduced? Sanitary & Heat Eng 101:70-1 F 8 '24; Same. Sheet Metal Worker 15:44+ F 15 '24
Controversy over workmen's compensation rates. A. R. Marsh. Econ W n s 27:668 My 10 '24
Discontent among casualty underwriters with the workmen's compensation rate situation. A. R. Marsh. Econ W n s 27:272 F 23 '24
Improvement achieved during 1923 in the making and administration of workmen's compensation insurance rates. W: Leslie. Econ W n s 27:275-7 F 23 '24
In Ohio sixty-nine industries pay higher compensation rates than coal mining. R. D. Hall. Coal Age 28:217-18 Ag 13 '25; Discussion. 28:576 O 22 '25
Method of rate making. T. N. Dean and others. U S Bur Labor Statistics Bul 385: 146-60 '25
Officially authorized increase of workmen's compensation rates in New York state. A. R. Marsh. Econ W n s 29:920 Je 27 '25
Premium rates for compensation insurance for underground metal-mine workers. B. O. Pickard. U S Bur Mines Rep of Invest 2607:1-9 My '24
Report of national council on compensation insurance. Spectator 113:4+ D 11 '24
Risks of thirteen industries exceed that of anthracite. R. D. Hall. Coal Age 28:253 Ag 20 '25
Saving manpower and $65,000. H. D. Martin. il Iron Tr R 77:491-4 Ag 27 '25
Underwriting results in 1924 of employers' liability insurance in Great Britain. Econ W n s 30:385-7 S 12 '25
Workmen's compensation experience rating "in rem" and "in personam." L. S. Senior. Econ W n s 29:923-5 Je 27 '25

INSURANCE advertising conference, Pittsburgh
Convention, Pittsburgh, Oct. 27-28. Ptr Ink 129:81-2+ N 6 '24

INSURANCE advisory boards
Advisory board plan. Spectator 114:4 F 19 '25

INSURANCE agents
Banker arraigns agent. O. J. Sands. Spectator 115:13+ Jl 2 '25
Discouraging expensive agents' conventions. Spectator 113:5 O 2; 6-7 O 16 '24
Few suggestions for agents. W: C. Morton. Spectator 112:23-4 Je 19 '24
Gain a working knowledge of and develop all lines. J. R. Wilson. Spectator 114:13+ sec 2 My 7 '25
Getting before the prospect. Spectator 112:26-7 Je 19 '24
Insurance advisor instead of salesman. F. M. Williams. Spectator 112:38-9 Mr 6 '24
Insurance and its problems. E: C. Stone. Spectator 115:4 Jl 2 '25
Multiple line agencies. Spectator 112:9 Mr 20 '24
Multiple line agencies. A. L. J. Smith. Spectator 114:7+ Ja 8 '25
Practical pointers for plucky agents. W. C. Morton. Spectator 113:25-6+ S 25 '24
Problems of the American agent. H: S. Ives. Spectator 112:33-4 Ja 17 '24
Success and optimism. W: C. Morton. Spectator 113:25-6 O 23 '24
Successful agent is more than a mere order taker or even a mere salesman. J. R. Wilson. Spectator 115:32-3 Jl 2 '25
Successful insurance salesman reveals his methods. F. H. Williams. Spectator 112:21-2 Jl 3 '24
Views of some prominent agents on the special lines. Spectator 114:7-8 sec 2 My 7 '25

See also Insurance, Accident—Agents; Insurance, Casualty—Agents; Insurance, Fire—Agents; Insurance, Life—Agents; Insurance, Surety and fidelity—Agents

Accounting

Insurance-brokerage accounting. S. Farb. J Account 39:182-93 Mr '25

INSURANCE agents, New England state associations of. See New England state associations of insurance agents

INSURANCE banks. See Banks and banking, Insurance

INSURANCE commissioners, National convention of. See National convention of insurance commissioners

INSURANCE companies
Springfield's anniversary. Spectator 112:7+ My 1 '24

See also General accident, fire and life assurance corporation; Lloyd's, London; Metropolitan life insurance company; Mutual benefit life insurance company of Newark, Newark, New Jersey; Pacific mutual life insurance company of California, Los Angeles, Cal.

Advertising

Advertising methods. C. A. Palmer. Spectator 113:15 O 2 '24
Educating the public about sound insurance as a necessary function of stock insurance companies and agents. A. L. Kirkpatrick. Econ W n s 28:597-9 O 25 '24
Insurance advertising convention. Spectator 113:31+ Jl 31 '24
Insurance business confused on how to use advertising. Ptr Ink 133:65-6+ N 5 '25
Insurance is changing its attitude toward advertising. Ptr Ink 131:49-50+ Je 18 '25
Metropolitan life gets Holcombe trophy. W. E. Roesch. Spectator 113:4+ O 30 '24
Opportunity for insurance companies to foster popular support. R. A. Gibney. Ptr Ink 125: 133-4+ D 13 '23
Value of advertising analyzed; report of committee on salesmanship. Spectator 113:10-11 Jl 31 '24
Why buy a pig in a bag? examination for insurance advertising men. C. Belden. Ptg Art 44:45-8 S '24

See also Insurance, Casualty—Advertising; Insurance, Fire—Advertising; Insurance, Group—Advertising; Insurance, Life—Advertising; Insurance, Use and occupancy—Advertising

INSURANCE companies—*Continued*

Finance

British insurance companies in 1924. Economist 100:1065-6 My 30 '25

Earnings of British insurance companies in 1924. Econ W n s 30:97 Jl 18 '25

Insurance costs and profits. Economist 99: 721-2 N 8 '24

Management problems of European insurance companies since the armistice. A. O. Holwerda. Harvard Business R 2:398-408 Jl '24

See also Insurance, Fire—Finance; Insurance, Liability—Finance; Insurance, Life—Finance; Insurance, Marine—Finance; Insurance, Social—Finance

Investments

Investments of banks and insurance companies. F. E. Richter and A. Standish. Harvard Business R 3:414-23 Jl '25

See also Insurance, Life—Finance

Management

New organization, Life office management association, formed. Spectator 113:31+ O 2 '24

Regulation

Cross-currents. W: BroSmith. Spectator 113: 21-3 O 23 '24

Facts about unauthorized foreign insurance which concern the American insuring public. Econ W n s 29:349-50 Mr 7 '25

Insurance supervision and the insurance agent. F. R. Stoddard, jr. Econ W n s 27: 671-3 My 10 '24

Introduction of state supervision of insurance companies in Denmark. Econ W n s 29:711 My 16 '25

Securities

Insurance company stocks from the standpoint of the general investor. Econ W n s 28:452 S 27 '24

Insurance stocks as investments. A. Motelle. Annalist 26:215, 247 Ag 21-28 '25

Insurance stocks as investments. W. H. Woodward. Spectator 114:19+ sec 2 My 7 '25

Service

Probing insurance problems of business executives. M. C. Krarup. Forbes 14:18-20+ Ap 12 '24

Taxation

59 millions a year in a hidden tax; the unsuspecting policyholder pays it all and without thought of protest. J. L. Madden. Nation's Business 13:24-6 Jl '25; Same abr. Econ W n s 30:60-1 Jl 11 '25

Life insurance protection and savings as affected by special insurance taxes. E: E. Rhodes. Econ W n s 27:669-71 My 10 '24

Property and casualty insurance as affected by special insurance taxes. A. I. Vorys. Econ W n s 27:705-8 My 17 '24

Taxation of insurance in the United States. J. L. Madden. Econ W n s 28:381-4 S 13 '24; Same cond. Spectator 113:38-9+ S 11 '24

See also Insurance, Life—Taxation

France

French proposal to compel insurance companies to deposit their reserves with the government. Econ W n s 29:27 Ja 3 '25

Germany

German insurance companies and the return to the gold basis in Germany. B. Deutsch. Econ W n s 29:202-3 F 7 '25

Gold mark balance-sheets of the German insurance companies and their business outlook. W: Juul. Econ W n s 29:275-6 F 21 '25

Great Britain

Britannic assurance company, limited; Prudential assurance company, limited. Economist 98:540-4 Mr 8 '24

Britannic assurance co., ltd. 59th meeting, Birmingham, Mar. 6. Economist 100:507-8 Mr 14 '25

Company meetings, &c. Published in weekly numbers of Economist

London and Lancashire insurance company, limited. Economist 100:927-8 My 9 '25

Official figures of the business of British insurance companies in 1922. Econ W n s 28: 203-5 Ag 9 '24

Returns of British insurance companies to the Board of trade for 1923. Econ W n s 30:277-9 Ag 22 '25

Royal exchange assurance annual general court, London. Economist 100:870-1 My 2 '25

Royal insurance company, limited, 18th annual general meeting, Liverpool, May 25. Economist 100:1091-3 My 30 '25

Some aspects of foreign insurance business. A. S. Rogers. Econ W n s 29:58-60, 93-5, 131-3, 167-70 Ja 10-31 '25

See also Insurance law—Great Britain

United States

Farmers' mutual fire insurance companies. V: N. Valgren. Univ J of Business 3:126-52 Mr '25

Southern life insurance companies' growth. R. F. Moore. il Manuf Rec 86:186-8 pt 2 D 11 '24

INSURANCE company buildings

Jefferson standard life insurance company's building, Greensboro, N.C. Arch & Bldg 56: 85-6, pl 183-6 S '24

Kansas City life insurance company building. il Arch Forum 43:191-2, pl 68-72 O '25

Lincoln National life insurance building, Fort Wayne, Indiana; views and plans. Arch Rec 56:335-48 O '24

London guarantee and accident building, Chicago, Ill. il Am Arch 126:191-2, pl 73-80 Ag 27 '24

London guarantee & accident building, Chicago; views and plans. Arch Forum 41: pl 38-40 S '24

New home office building of the Equitable life assurance society, New York city. Arch & Bldg 57:40-1, pl 99-102 My '25

Why this business built a home in the suburbs; building of the Maryland casualty company. W: A. McGarry. Forbes 14:371-3 Je 21 '24

See also Equitable assurance society building, New York

INSURANCE exchange building, Montreal

Insurance exchange building, Montreal. J. P. Anglin. il plan Can Eng 47:563-5 D 2 '24

INSURANCE federation of America

Insurance federation of America. J: T. Hutchinson. Spectator 113:66-7 sec 2 Jl 17 '24

INSURANCE institute of America

Insurance institute of America. E: R. Hardy. Spectator 113:29-30+ sec 2 Jl 17 '24

INSURANCE law

Flexibility of coverages as a need in American insurance. F. R. Stoddard, jr. Econ W n s 27:345-6 Mr 8 '24

Insurance coverages as affected by the charter powers of insurance companies. C. W. Hobbs. 60p National convention of insurance commissioners, Minneapolis, Minn. '23

Insurance decisions. J. W. Zeller. Published in Spectator

Insurance; theory, practice and experience. A. R. Marsh. Econ W n s 27:308 Mr 1 '24

Life insurance in international law; claims against Germany. F: L. Hoffman. Spectator 112:23-4+ Je 26 '24

Life insurance law manual for agents. W. Bovey. 122p Spectator co., New York '23

Outlines of insurance. E. W. Cady. 420p Lawyers co-operative pub. co., Rochester, New York '25

See also Insurance, State and compulsory

INSURANCE law—*Continued*

Canada

Life insurance beneficiaries as defined in the uniform life insurance act of the Canadian provinces; abstracts. R. L. Foster. Econ W n s 29:206-7 F 7 '25; Spectator 113:25-6 D 25 '24

New uniform life insurance laws of the Canadian provinces. A. R. Marsh. Econ W n s 29:56 Ja 10 '25

Costa Rica

State insurance monopoly law of Costa Rica. Econ W n s 28:924-5 D 27 '24

Cuba

Proposed heavy increase of statutory deposits of foreign insurance companies in Cuba. Econ W n s 28:927 D 27 '24

France

Projected French law establishing a state reinsurance monopoly. Econ W n s 29:926-7 Je 27 '25

Great Britain

English decision on permissible insurance under C.I.F. contracts. Econ W n s 28:134-5 Jl 26 '24

The policy as a legal essential of a valid contract of marine insurance in Great Britain. Econ W n s 29:346-8 Mr 7 '25

Some disadvantages of the statutory deposit required of foreign insurance companies operating in Great Britain. Econ W n s 28: 132-3 Jl 26 '24

Illinois

Insurance laws of the state of Illinois. 223p Schnepp & Barnes, Springfield '23

New York (state)

Amendments of 1925. A. J. Parker, jr. Spectator 114:13+ Je 25 '25

Explanatory statement by superintendent of insurance Beha. Econ W n s 29:420-1 Mr 21 '25

Important amendment proposed concerning assessment life associations. Spectator 114:9+ F 12 '25

New York insurance law annotated. W: E: Baldwin, ed. 329p Banks law pub. co., New York '25

Restrictive provisions of the New York insurance law and the licensing of insurance companies of other states. F. R. Stoddard, jr. Econ W n s 27:814-17, 852-3 Je 7-14 '24

Ohio

Insurance laws of Ohio, 1924. 286p F. J Heer ptg. co., Columbus, O. '24

South America

Insurance in South America. Economist 98: 618-19 Mr 22 '24; Same. Econ W n s 27: 566-7 Ap 19 '24

Texas

Practical effects of the Robertson law of Texas. A. R. Marsh. Econ W n s 28:920 D 27 '24

United States

Court may rule on question of applicant's fraud in certain cases. J. W. Zeller. Spectator 114:29 Mr 26 '25

Insurance for the benefit of third persons under statute. J. P. Chamberlain. Econ W n s 29:345-6 Mr 7 '25

New life insurance legislation, actual or projected, in the United States during the past year. H: J. Powell. Econ W n s 30: 563-5 O 17 '25

Resumé of the situation in regard to United States branch of Russian insurance companies. Spectator 114:3+ Ap 30 '25

Summary of 1924 legislation. Spectator 113: 9-10 D 11 '24

INSURANCE libraries

Business library an educative force. E. Gilbert. Office Economist (Art Metal construction co., Jamestown, N.Y.) 6:5-6+ S '24

Insurance libraries in the United States. Special Lib 16:151-6 My '25

Phoenix Mutual life insurance company. G. C. Bevan. Special Lib 16:269-71 O '25

Place in the insurance business of organized insurance libraries. F: Richardson. Special Lib 16:145-6 My '25

INSURANCE society of New York

Insurance society of New York. M. E. Inch. Spectator 113:76-7 sec 2 Jl 17 '24

INSURANCE taxation. See Insurance companies—Taxation

INSURANCE trusts

Banker and life insurance; abstracts. A. C. Robinson. Econ W n s 30:202-4 Ag 8 '25; Spectator 115:29-31 Jl 23 '25

Buffalo bank advertises life insurance. Spectator 114:3 Ja 1 '25

Conserving estates through life insurance trusts. T: C. Hennings. Am Bankers Assn J 18:87+ Ag '25; Same. Econ W n s 30:275-7 Ag 22 '25

Co-operation between life underwriters and trust company officials in developing insurance trust business. M. A. Linton. Econ W n s 27:633-4 My 3 '24

Co-operative plan to conserve insurance principal. W. Russell. Bankers M 109:203-4 Ag '24

Information about taxation and estate settlements of assistance to life insurance agents. E. P. Huttinger. Econ W n s 27:421-2 Mr 22 '24

Insurance trust. Nat City Bank p 78-9 My '24

Life insurance and its relation to estates and trusts. L. G. McDouall. Econ W n s 29:489-90 Ap 4 '25

Life insurance trust. W: W. Hoffman. Spectator 112:26-8 Ja 10 '24

Life insurance trusts. J. A. Reynolds. Spectator 115:31 O 8 '25

Life insurance trusts and the making of trust agreements in life insurance contracts. C. Bullock. Econ W n s 29:417-20 Mr 21 '25

Making the most of estates, through joint trust company and life insurance service. F. W. Ganse. Spectator 113:22-3 S 4 '24

More co-operation with trust companies in deferred settlements. C. Bullock. Spectator 115:33-5+ S 3 '25

Option settlements and life insurance trusts from the standpoint of the proper function of life insurance companies. G. W. Cox. Econ W n s 29:273-5 F 21 '25

Place of the life insurance trust in the business of trust companies. T: C. Hennings. Econ W n s 27:492-3 Ap 5 '24

Selling life insurance trusts. F. L. Wendell. Burroughs Clearing House 8:42-3+ S '24

Trust company service in combination with life insurance. J: T. Creighton. Econ W n s 29:851-2 Je 13 '25

INTAKES

Clogging of intakes by fish. Am Water Works Assn J 11:219-21 Ja '24

Construction of intake at Goderich, Ont. E. H. Darling. il diag plans Can Eng 49:469-71 O 20 '25

Essais d'étanchéité de la galerie sous pression de l'usine électrique d'Amsteg, des chemins de fer suisses. il diag Génie Civil 84:211-12 Mr 1 '24

Fire hose forms seal for stop logs to unwater intake chamber. J. E. Gibson. diags Eng N 94:651-2 Ap 16 '25

Fixing a circulating water screening plant. il diags Engineer 139:224 F 20 '25; Same. Eng & Contr (W W) 63:1297-8 Je 10 '25

Installing intake line at Orlando, Fla. W. W. Mathews. Eng & Contr (W W) 63:760-1 Ap 10 '25

Intake built without use of cofferdam. diag Eng & Contr (W W) 62:801-2 O 8 '24

Intake shaft and screen house for Portland water district. C: B. Mitchell. il diags Eng N 93:514-15 S 25 '24

Intake tunnel through New Orleans levee in sheetpile cofferdam. R. H. Chambers. il diags plan Eng N 92:560-2 Ap 3 '24

INTAKES—*Continued*
Intakes for hydro-electric power plant. R. W. Angus. il diags Can Eng 48:111-14, 129-32 Ja 6-13 '25; Abstract. Power 60:932 D 9 '25
Lake waters for condensers. A. G. Christie. Mech Eng 47:809-10 O '25
Manometer indicates strainer condition. J. Bivim. diag Elec W 84:1003 N 8 '24
Simple automatic intake control. Engineering 118:432 S 19 '24

INTEGRAL equations
Linear integral equations. W: V. Lovitt. 253p McGraw-Hill '24

INTEGRATION
Use of roulettes for graphical integration. A. A. Robb. Philos Mag 6th ser 49:962-70 My '25

INTEGRATORS
Die ausführung technischer integrationen auf mechanischem wege mit einem neuen integraphen. U. Knorr. il Elektrotech Zeit 45:869-70 Ag 14 '24
Double integraph for electric line transients. V. Karapetoff. Sibley J 39:243-5, 258-60 Ja-F '25

INTELLECTUAL property. See Patents

INTELLECTUAL workers
Intellectual worker and his work. W: MacDonald. 351p Macmillan '24
Problem of unemployment among intellectual workers abroad. Monthly Labor R 19:169-82 Jl '24

INTELLECTUALS
Intellectual and the labor movement. G: H: Soule. 33p League for industrial democracy, New York '23

INTELLIGENCE tests. See Ability tests

INTER-ALLIED conference. See German indemnities

INTERBOROUGH rapid transit company. See New York (city)—Rapid transit

INTERCHANGEABLE mechanism
Basic allowance and tolerance system. W. L. Hindman. diags Mach 31:933-7 Ag '25; Discussion. 32:93-4, 231, 237, 329 O-D '25
Building lathes interchangeably. C: O. Herb. il Mach 30:758-61 Je '24
Compound die with interchangeable sections. J. Williams. il Am Mach 62:933-4 Je 11 '25
Economic aspect of tooling for interchangeable production. J. Lannen. diags Soc Auto Eng J 16:59-61 Ja '25; Discussion. 16:225-6+ F '25
Interchangeable broaches for keyways. C: G. Pfeffer. diags Mach 31:549-52 Mr '25
Interchangeable manufacture as applied to airplane construction. W: B. Stout. il diag Am Mach 62:767-70 My 14 '25
Maintaining interchangeability. Am Mach 60: 349-50 Mr 6 '24
Recommended practice for interchangeable gears. diags Am Mach 63:645 O 22 '25
Requirements of a system of limits. M. E. Steczynski. diags Sibley J 38:139-46+ Je '24
Symboling of parts for interchangeable manufacture. C. H. Lage. Am Mach 62:20 Ja 1 '25
Unilateral and bilateral tolerances as applied to interchangeable manufacture. H. W. Bearce. diag Mech Eng 47:485-7 Je '25
What is interchangeable manufacture? E. C. Peck. Am Mach 60:4, 166 Ja 3, 31 '24

See also Automobile parts, Interchangeable; Gages

INTERCHANGEABLE mileage tickets. See Railroads—Tickets

INTERCONNECTION of electric plants. See Electric plants—Interconnection

INTERDEPARTMENTAL patents board. See United States—Interdepartmental patents board

INTEREST
Are the days of high money rates gone forever? J: Oakwood. Forbes 17:34+ N 1 '25
Bank of England and the commercial money market. H: A. E. Chandler. Comm M 6:3-15 O '24; Same. without charts. Econ W n s 28:582-6 O 25 '24
Cheap money, business and the stock market. B: M. Anderson, jr. Comm & Fin Chr 120:2494-5 My 16 '25; Same. Am Management R 14:179-81 Je '25
Criticism of the Federal reserve's credit policy answered. G: E. Putnam. Am Bankers Assn J 17:319-20 N '24
Demand for low interest rates to save agriculture. J. S. Wannamaker. Manuf Rec 85: 105-6 Mr 6 '24
Discount and interest rates. Fed Res Bul 10: 72 Ja '24
Does the world face a period of low interest rates? Am Bankers Assn J 18:19-20 Jl '25
Effect of the Federal reserve system on interest rates. W. R. Burgess. Management & Adm 6:733-8 D '23
End of cheap money market is seen. P. Gourich. Annalist 24:510 N 17 '24
Farm-mortgage interest rates. C. F. Wigder. charts maps J Land & Pub Util Econ 1:102-17 Ja '25
Formula for determining probable interest rates. H. P. Gillette. chart Eng & Contr (Ry) 61:1329-31 Je 18 '24
Formula in compound interest. E. J. Oglesby. J Account 39:34-6 Ja '25
Future of money and capital. Moody's Inv Serv 17:235, 237-40 Jl 16 '25
Interest and depreciation. Power 61:844 My 26 '25
Interest as a cost. C. H. Scovell. 254p Ronald press '24
Interest during construction as an element of cost. W. H. Blood, jr. charts Gas Age 55:679-81 My 9 '25; Same. Gen Elec R 28: 298-301 My '25
Interest during construction in public utility accounting. J: H. Bickley. J Land & Pub Util Econ 1:414-24 O '25
Interest question. F: Vierling. J Account 37: 11-27 Ja '24
Interest rates and stock markets. C: O. Hardy. Annalist 26:371-2 S 25 '25
Inwood's tables of interest and mortality. W: Schooling. 32d ed., rev. & enl. 440p Van Nostrand '24
Life duration and interest rates. J. F. Fennelly. Comm & Fin 14:1713 S 9 '25
Mathematical principles of finance. F: C: Kent. 253p McGraw-Hill '24
Meaning of 2 per cent money. Am Bankers Assn J 17:1-2 Jl '24
Methods of paying and figuring interest. J. V. Holdam. Am Bankers Assn J 17:652-3+ Ap '25
Money rate puzzle. J: McHugh. Am Bankers Assn J 18:123-4 S '25
Money rates and pig-iron production 1877-1924. charts (supp) R Econ Statis 7:44-7 Ja '25
Money rates prevailing in leading cities. Fed Res Bul 10:143 F '24
Price of capital. Moody's Inv Serv 16:366; 17:113-14 O 2 '24, Ap 2 '25
Rate of interest—a forecast; conclusions. Economist 100:587-8 Mr 28 '25
Rate of interest—a forecast; demand for capital. Economist 100:529-30 Mr 21 '25
Rate of interest—a forecast; effect of price fluctuations. Economist 100:441-2 Mr 7 '25
Rate of interest—a forecast; supply of capital from savings. Economist 100:491-2 Mr 14 '25
Rate of interest earned by 71 American life insurance companies. Spectator 112:4+ My 29 '24
Steadier interest rates under the Federal reserve system. W. R. Burgess. Am Bankers Assn J 18:12-15+ Jl '25; Excerpts. Comm & Fin Chr 121:532 Ag 1 '25
Use of interest in figuring production cost. J. P. Jordan. Management & Adm 9:145-8 F '25; Same. Paper Tr J 80:53-5 My 21 '25
Why the treasury pays the rate. A. W. Mellon. Am Bankers Assn J 16:615-17 Ap '24; Same. Econ W n s 27:593-4 Ap 26 '24
Will interest rates rise or fall? F: W. Gehle. Am Bankers Assn J 16:634-5+ Ap '24

See also Loans; Usury laws

INTEREST coupons. See Banks and banking—Interest coupons

INTERFACIAL phenomena

Chemistry at interfaces. W: Hardy. Chem Soc J 127:1207-27 Je '25

INTERFACIAL tension

Adsorption and surface tension at liquid-liquid interface. J. H. Mathews and A. J. Stamm. diag Am Chem Soc J 46:1071-9 My '24

Certain interfacial tension equilibria important in flotation. W. H. Coghill and C. O. Anderson. il diags U S Bur Mines Tech Pa 262:1-55 '23

Interfacial tension between petroleum products and water. E. M. Johansen. bibliog diags Ind & Eng Chem 16:132-5 F '24

Interfacial tension of some aqueous solutions against oils, as corrected for specific gravity. R. L. Howard and T. Sollmann. J Phys Chem 28:1291-6 D '24

Monomolecular films between liquids; butyric acid between water and hexane, and acetic acid between water and benzene. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:1610-13 Je '25

INTERFERENCE (light)

Optical interference experiments with multiple sources. J: J. Dowling and J. A. C. Teegan. Philos Mag 6th ser 50:341-4, pl 12 Jl '25

Ruling line standards; a method of producing line standards free from measurable error by the application of light interference. H. P. Lewis and C. G. Peters. il plan Am Mach 61:925-8 D 11 '24

See also Electric waves

INTERFERENCE elimination. See Radio communication—Interference elimination

INTERFEROMETER

Application of the interferometer to measurements of the thermal dilatation of ceramic materials. G: E. Merritt. diags U S Bur Stand Sci Pa 485:357-73 '24

Effect of a retarding plate on white light interferometer fringes. N. K. Sethi. Phys R 23:69-74 Ja '24

Interferometers for calibrating standards of length. diags Engineering 118:491-2 O 3 '24

New interference apparatus for testing haemacytometers. C. G. Peters and B. L. Page. il diags U S Bur Stand Sci Pa 507: 221-36 '25

INTERIOR decoration

Arsenal at Paris. C. H. Preston. il diags Arch Forum 42:269-72 Ap '25

Billiard and pool rooms in private houses. il Am Arch 128:397-402 N 5 '25

British interior decoration—floors. A. E. Bulloch. il Arch Rec 56:368-74 O '24

Colour and comfort in decoration. J: Gloag. 186p Stokes '25

Color schemes for the home and model interiors. H: W. Frohne, A. F. Jackson and B. Jackson. Rev. ed. 99p Lippincott '24

Co-operation between architect and decorator. il diags Am Arch 126:17-22 Jl 2 '24

Decoration and furnishing of public rooms of hotels. H. Major. il Arch Forum 41:243-6 N '24

Decoration as applied to modern retailing with special reference to the new Brentano's book store, New York. il plan Am Arch 128:91-6 Jl 29 '25

Decorative iron in an interior scheme. il Am Arch 126:185-90 Ag 27 '24

Decorative treatment of furnished apartments. J: H. Hutaff. il Arch Forum 41: 249-52 N '24

Designing and furnishing the entrance hall. il plans Am Arch 125:395-400 Ap 23 '24

Designing the office building lobby. il diag Am Arch 126:241-6 S 10 '24

Details of a Louis XVI salon at Fontainebleau. il plans Arch Forum 42:121-6 F '25

Details of small Louis XVI salon, Compiegne. plans Arch Forum 42:57-62 Ja '25

Details of the large hall Chateau de Montfermeil, Paris; classic influence in Louis XIV interiors; drawn by C. H. Preston. il Arch Forum 41:81-6 Ag '24

Dining room and its problems in design. il Am Arch 125:81-6 Ja 16 '24

Dutch influence on English decorations: the William and Mary period. il Am Arch 126: 145-50 Ag 13 '24

Field of interior design in the United States. il Am Arch 125:25-9 Ja 2 '24

Great styles of interior architecture with their decoration and furniture. R. Gilman. 264p [bibliog. p. 218-27] Harper '24

Hotel Senecterre, Paris. C. H. Preston. il plans Arch Forum 42:353-8 My '25

House of Robert Law, jr., Port Chester, N.Y. Am Arch 125:338a-h Ap 9 '24

Important addition to the new hotel life of New York city; Park Lane hotel. il plans Am Arch 126:445-8, pl 157-60 N 5 '24

Interior architecture. il Am Arch 125:219-24, 267-72, 349-55, 523-8 F 27-Mr 12, Ap 9, Je 4 '24

Interior architecture; floor treatments—their architectural and decorative values. il Am Arch 127:499-504 Je 3 '25

Interior architecture of apartment hotels. W. S. Wagner. il Arch Forum 41:237-40 N '24

Interior architecture of the country club. il Arch Forum 42:145-8 Mr '25

Interior architecture; planning and furnishing the breakfast room. il plan Am Arch 126: 337-42 O 8 '24

Interior decoration in Great Britain. A. Jacob. Am Arch 128:13 Jl 1 '25

Interior decorations of the house of Robert M. Haig, Riverdale, N.Y. J. Gregory. il Am Arch 127:323-7 Ap 8 '25

Interior finish and fixtures of apartment houses. L. French, jr. il Arch Forum 43:177-84 S '25

Interior wall decoration. F. N. Vanderwalker. 451p Drake '24

Interiors in the early Italian Renaissance style. A. Lowden. il Arch Forum 43:63-4 Jl '25

Interiors of Tudor inspiration; the house of Robert Law, jr., Portchester, N.Y. D. J. Baum. il plan Arch Forum 40:75-8, pl 26-8 F '24

Little Orchard; house of Mrs Laura Levering, Greenwich, Conn. il plans Arch Forum 41: 289-92 D '24

Living room and its furnishings. il diag Am Arch 124:527-32 D 5 '23

Modern interior decorating. A. A. Kelly. Bldg Age 46:144+ N '24

Observations on the use of color in the decoration of interiors. E. Jonson. il Am Arch 127:275-6 Mr 25 '25

Paint as an element of decoration. il Am Arch 127:269-74 Mr 25 '25

Painting and interior decoration. L: A. Osborne, comp. 167p McKay '25

Periods given new interpretation. il plan Am Arch 128:309-12 O 5 '25

Principles of interior design. il plan Am Arch 124:465-9 N 21 '23

Problems of the small town architect in designing the decorations of the interior. il Am Arch 126:99-102 Jl 30 '24

Renaissance in England; the Elizabethan period. il Am Arch 127:121-6 F 11 '25

Renderings of interiors made in the office of Carlhian, of Paris, decorators. il Am Arch 128:183-4 Ag 26 '25

Residence of James Byrne; views. Arch Rec 57:517-31 Je '25

Scale of interior details. il diags Am Arch 126: 377-82 O 22 '24

Shade and shadows in interior design. il Am Arch 127:373-8 Ap 22 '25

Short cut lessons on interior decoration for builders. il Bldg Age 46:75 My; 76 Je; 65 Jl; 75 Ag; 60 S; 58 O; 101 N; 123 D '24; 47; 116 Ja; 140 Mr; 137 Je '25

INTERIOR decoration—*Continued*
Simple course in home decorating. W. Fales. 295p Small, Maynard & co., Boston '23
Small salon, Hotel Gouthiere, Paris. il plans Arch Forum 43:57-62 Jl '25
Spanish-Indian tradition in interior decoration. R. Henderson. il diags Arch Rec 55: 194-202 F '24
Spirit of the old Spanish in modern decoration. il Am Arch 126:573-80 D 17 '24
Two notable houses on Sutton place, New York: the homes of Mrs. W. K. Vanderbilt and Anne Morgan. il plans Arch Forum 41: 49-60, pl 17-24 Ag '24
Utilizing the personality of clients with particular reference to the decorative treatment of bedrooms. il Am Arch 127:25-30 Ja 14 '25

See also Architecture, Domestic; Carpets; Color in architecture; Drapery; Fresco painting; Furniture; Mural painting and decoration; Paper hanging; Rugs; Sun rooms; Tapestry; Wall paper; Woodwork; *also* Compiègne, Palace of

Bibliography

Art in home economics. M. E. Clark and others, comps. 66p Univ. of Chicago press '25

Exhibitions

Annual exhibition of the Art-in-trades club, New York. il Am Arch 126:449-50 N 5 '24
Glimpse of the interiors at the International exposition of architecture and allied arts. il Am Arch. 127:425-8 My 6 '25
Interior architecture at the League exhibition. il Am Arch 125:156-8 F 13 '24
International exposition of architecture and the allied arts. il Am Arch 127:455-60 My 20 '25
International exposition of modern industrial and decorative art in Paris. W. F. Paris. il Arch Rec 58:265-77 S '25

INTERLOCKING devices
Interlocking devices. A. Clegg. diags Mach 30:466-7, 526-8, 614-16 F-Ap '24

INTERLOCKING plants. See Railroads—Signals

INTERMEDIATE credit banks
Agricultural credit banks. Fed Res Bul 11: 457 Jl '25
Better banking for the farmer. A. C. Wiprud. Nation's Business 12:66+ Ap '24
Billion dollar enterprise springs from the soil. M. L. Corey. Am Bankers Assn J 17:83-5 Ag '24
Credits for the cooperatives. M. L. Corey. Am Bankers Assn J 17:379-80+ D '24
Federal intermediate credit bank debentures. Moody's Inv Serv 17:131 Ap 16 '25
How resources are being employed in agriculture. Index p 5-6 Ja '25
Intermediate credit and state laws. H. C. Wallace. Comm & Fin Chr 117:2166-7 N 17 '23
Sale of third issue of debentures ($10,000,000) of Federal Intermediate credit banks. Comm & Fin Chr 117:2279 N 24 '23
Tax exemption provision of Agricultural credits act as to debentures of Federal Intermediate credit banks upheld by Attorney-General Daugherty. Comm & Fin Chr 117: 2378-9 D 1 '23
Text of law providing for federal intermediate credit banks. 24p U.S. Federal farm loan bd., Washington '24

INTERMITTENT mechanism. See Mechanical movements

INTERNAL combustion engines. See Gas and oil engines; Niepce engine

INTERNAL pressure. See Pressure, Internal

INTERNAL revenue
See Corporations—Taxation; Income tax; Inheritance tax; Taxation—United States

INTERNAL revenue, Bureau of. See United States—Internal revenue, Bureau of

INTERNATIONAL acceptance bank, New York
International acceptance bank in new quarters. il Bankers M 110:317-23 F '25

INTERNATIONAL advertising convention. See Associated advertising clubs of the world

INTERNATIONAL aeronautic federation
Outline of scope, organization and accomplishments. Aviation 18:156-7 F 9 '25

INTERNATIONAL agricultural corporation
14th annual report for year ended June 30, 1923. Comm & Fin Chr 118:83-4 Ja 5 '24

INTERNATIONAL association for the study and improvement of relations and conditions in industry
Organization. Am Management R 14:341 N '25

INTERNATIONAL association of casualty and surety underwriters
Casualty and surety men convene, French Lick Springs, Ind., Sept. 29-Oct. 1. Spectator 115:4+ O 1; 37-8 sec 2 D 24 '25
International association of casualty and surety underwriters. W: BroSmith. Spectator 113:45-7 sec 2 Jl 17 '24
Joint convention with National association of casualty and surety agents, White Sulphur Springs, W. Va. Spectator 113:7+ O 2 '24

INTERNATIONAL association of garment manufacturers
Annual convention, 30th, Chicago. Textile World 65:3411-12+ My 24 '24
Annual meeting, 32d, Chicago. Textile World 67:3405+, 3537-8 My 23-30 '25

INTERNATIONAL association of industrial accident boards and commissions
Annual meeting, 10th, St Paul, Minnesota, Sept. 24-26, 1923. U S Bur Labor Statistics Bul 359:1-148 '24; Monthly Labor R 17:1169-72 N '23
Annual meeting, 11th, Halifax, Nova Scotia, August 26-28, 1924. U S Bur Labor Statistics Bul 385:1-174 '25; Monthly Labor R 19:909-11 O '24
Annual meeting, 12th, Salt Lake City, Aug. 17-20. Monthly Labor R 21:808-12 O '25
Index to proceedings, 1914-1924. G. L. Tibbott. U S Bur Labor Statistics Bul 395:1-57 '25
Work of the association. O. F. McShane. Monthly Labor R 21:687-93 O '25

INTERNATIONAL association of master house painters and decorators of the United States and Canada
Annual convention, 40th, Atlantic City, N. J. Oil Paint & Drug Rep 105:20 F 11 '24

INTERNATIONAL association of printing house craftsmen
Annual convention, 5th, Milwaukee, Wis., Aug. 18-21. Inland Ptr 73:929-31 S '24
Craftsmen's movement—its aims, obligations and accomplishments. H. H. Weber. Inland Ptr 73:713-15 Ag '24

INTERNATIONAL association on unemployment
General assembly at Luxemburg. Int Labour R 8:689-95 N '23

INTERNATIONAL banking corporation, New York
Yankee finance on the seven seas. D. P. de Young. il Burroughs Clearing House 9:21-3+ F '25

INTERNATIONAL business machines corporation, New York city
Annual report, 12th, for the year 1923. Comm & Fin Chr 118:1555 Mr 29 '24
Building for the International business machines corporation. Arch & Bldg 57:83, pl 198-9 S '25
Good architecture a commercial asset. il Am Arch 128:365-6 O 20 '25

INTERNATIONAL cement congress
Congress, arranged by the Institution of structural engineers, Olympia, April 22. Engineering 117:556-7, 566-7 Ap 25-My 2 '24

INTERNATIONAL cement corporation
Annual report, 5th, 1923. Comm & Fin Chr 118:2074-5 Ap 26 '24

INTERNATIONAL cement corporation—*Cont.*
Annual report, 6th, for the period ended Dec. 31, 1924. Comm & Fin Chr 120:2306-7 My 2 '25; Excerpt. Concrete (cement mill sec) 26:79-80 Je '25

INTERNATIONAL chamber of commerce
Arbitration takes a hand in foreign trade disputes. Ptr Ink 131:33-4+ My 7 '25
Congress, 3d, Brussels, June 21-27. Engineering 120:117 Jl 24 '25; Automotive Ind 53: 63-4 Jl 9 '25; Comm & Fin Chr 121:286-8 Jl 18 '25; Am Bankers Assn J 18:125-8+ S '25
Le 3e congrès de la Chambre de commerce internationale à Bruxelles. A. de Lavergne. Chimie & Ind 14:469-71 S '25
Plans of International chamber of commerce. A. C. Bedford. Oil Paint & Drug Rep 107: 22 My 11 '25
World business acts as one. M. Thorpe. Nation's Business 13:22-4 S '25
World meeting of business. J. C. Quinn. Nation's Business 13:38-9 My '25

INTERNATIONAL city manager's association
Convention, Montreal, Sept. 23-25. Can Eng 47:397-8 O 7 '24

INTERNATIONAL claim association
Annual convention, 15th, Chicago. L. T. Smith. Spectator 113:15+ S 18 '24

INTERNATIONAL combustion engineering corporation
An industrial advertising policy that built sales of millions. R. C. Beadle. Ptr Ink 129: 143+ O 23 '24

INTERNATIONAL commission for air navigation
International requirements for airworthiness. Aviation 17:777-8 Jl 21 '24

INTERNATIONAL commission on illumination
Report of sixth session, Geneva, July 21-24, 1924. R. Watson and W. T. Dunn. Gas J (Lond) 171:110-19 Jl 8 '25
6th session, Geneva, Switzerland, July 22-25. Elec W 84:330, 381-2 Ag 16-23 '24; Gas J (Lond) 167:446-7, 642-3, 697; 169:150-2, 219-20, 349-50, 538-9, 606-7; 170:467-8 Jl 30, Ag 20-27 '24, Ja 21-28, F 11, Mr 4-11, My 13 '25; Illum Eng Soc 19:607-21 S '24

INTERNATIONAL competition. See Competition, International

INTERNATIONAL conference of labor statisticians
Meeting, Geneva, Oct. 29-Nov. 2, 1923. Int Labour R 9:3-30 Ja '24; Excerpt [Resolutions adopted]. Monthly Labor R 18:1147-50 My '24
Second International conference, Geneva, April 20-25. Int Labour R 12:1-22 Jl '25

INTERNATIONAL conference of pure and applied chemistry
Annual meeting, 5th, Copenhagen, June 26-July 1. Soc Chem Ind J (Chem & Ind) 43: 718-19 Jl 11 '24; Ind & Eng Chem 16:867, 870 Ag '24
La cinquième conférence internationale de la chimie. J. Gérard. Chimie & Ind 12:1-10 Jl '24
Annual conference, 6th, Bucharest. G. L. Wendt. Chem & Met Eng 32:679-81 Ag '25
Conference, 6th, June 22-25. J. C. Drummond. Soc Chem Ind J (Chem & Ind) 44:811-12 Ag 14 '25
La sixième conférence international de la chimie, Bucarest, June 22-25. J. Gérard. Chimie & Ind 14:1-9 Jl '25

INTERNATIONAL conference of women in science, industry and commerce
Conference, 1st, Wembley, July 15-17. Electrician 95:89-90 Jl 24 '25; Elec R (Lond) 97: 158-9 Jl 24 '25

INTERNATIONAL conference on large high tension electric systems
International E. H. P. conference. R. B. Matthews. Elec R (Lond) 96:1009; 97:7, 48-9 Je 26-Jl 10 '25
Proceedings at the third International conference, Paris, June 16-25. Engineer 140: 92-3 Jl 24 '25; Engineering 120:102 Jl 24 '25; Electrician 95:11 Jl 3 '25; Elec W 86:451-3 S 5 '25
IIIe session de la Conférence internationale des grands réseaux électriques à haute tension (Paris, 16-25 juin 1925). Tribot-Laspière. Génie Civil 87:61-4 Jl 18 '25

INTERNATIONAL conference on sanitary engineering
International conference on sanitary engineering, 1st, London, July 7-10. H. P. Eddy. Eng N 93:342-5 Ag 28 '24
Transactions of the International conference on sanitary engineering, London, 1924. 383p Inst. of sanitary engineers, London '25
Transactions of the International conference on sanitary engineering, London, 1924. T. C. Schaetzle. Am Water Works Assn J 13:550-5 My '25

INTERNATIONAL congress of acetylene, autogenous welding, and related industries
Le VIIIe Congrès international de l'acétylène, de la soudure autogène et des industries qui s'y rattachent. P. Rosemberg. Chimie & Ind 11:sup 7-12 Mr '24

INTERNATIONAL congress of applied mechanics
Der erste Internationale kongress für angewandte mechanik. A. Nadai. Zeit Ver Deutsch Ing 68:825-6 Ag 9 '24

INTERNATIONAL congress of radiology
First international congress, London, June 30-July 4. Elec R (Lond) 97:49-50, 111-12, 191-2, 229-30, 275-6 Jl 10-17, 31-Ag 14 '25

INTERNATIONAL congress of refrigeration, London
Congress, 4th, London, 1924. Engineer 137: 685-6 Je 20 '24; Refrig W 59:29-34 Jl; 27-30 Ag; 25-6 S '24
Report on the fourth International congress of refrigeration. T: Shipley. Refrig Eng 11: 221-3 D '24

INTERNATIONAL congress on architectural education
Conference, London, July 28-August 2. H. C. Bradshaw. Am Inst Arch J 12:412-14 S '24

INTERNATIONAL congress on social policy
International congress on social policy at Prague. Monthly Labor R 19:1385-7 D '24

INTERNATIONAL cooperation
Foundrymen foster world unity. H. C. Estep. Iron Tr R 75:1084-6 O 23 '24
Limits of nationalism; basis of national security. W: S. Culbertson. Ann Am Acad 112:124-45 Mr '24
Plan for a world center of organized cooperation in intellectual work. G. Dewey. Special Lib 16:172 My '25
Road to world peace. O. Newfang. 372p Putnam '24
Statesmanship of business. E. Howard. Nation's Business 12:13-14 Je 5 '24
See also Credit, International; Finance, International

INTERNATIONAL cooperative alliance
11th International cooperative congress. Monthly Labor R 19:1375-9 D '24

INTERNATIONAL education board
General education board and the International education board. R. Savord. Special Lib 16:188-91 Je '25

INTERNATIONAL electrotechnical commission
Conference, The Hague, April 16-23. Electrician 94:540-1 My 8 '25; Elec W 85:991 My 9 '25; Power 61:753 My 12 '25
Work of the International electrotechnical commission. Elec W 85:84-5, 252-3 Ja 10, 31 '25

INTERNATIONAL exchange. See Foreign exchange

INTERNATIONAL exposition of architecture and the allied arts, New York, 1925
Exposition, April 20-May 2. Am Arch 127: 415-22, pl 108-23 My 6 '25

INTERNATIONAL exposition of modern decorative and industrial art, Paris, 1925
Art in industry; Industrial arts exposition at Paris. L: Galantiere. il Nation's Business 13:31-3 N '25
Electricity in decorative art and applied industry. T. Rich. il Elec R (Lond) 97:524-6 O 2 '25
L'exposition internationale des arts décoratifs et industriels modernes, Paris, avril-octobre 1925. P. Calfas. il plans Génie Civil 86:525-31 My 30 '25
France glorifies advertising in a subtle futuristic exposition. W. L. Larned. il Ptr Ink M 11:36-7+ O '25
International exhibition of decorative arts and modern industry, Paris. Engineer 140:118-19 Jl 31 '25
International exposition of modern decorative and industrial art. D. E. Waid. Am Inst Arch J 13:413-14 N '25
International exposition of modern industrial and decorative art in Paris. W. F. Paris. il Arch Rec 58:265-77, 365-85 S-O '25
Lighting at the Paris exposition. W. W. Kantack. il diags Am Arch 128:303-6 O 5 '25
Paris letter. G. F. Sebille. Am Inst Arch J 13:258-9, 406-7 Jl, N '25
Rebirth of art and architecture in Europe; a review of the International exposition at Paris. A. C. Bossom. il Am Arch 128:161-6 Ag 26 '25
Will the exposition regain artistic leadership for France? L. V. Solon. Arch Rec 58:391-3 O '25

INTERNATIONAL federation of civil servants
1st congress, Paris, May 11-16. Monthly Labor R 21:434-5 Ag '25

INTERNATIONAL federation of trade unions
Activities, 1922 to 1924. Monthly Labor R 20: 925 Ap '25
International trade-union movement, 1923. Monthly Labor R 21:182-5 Jl '25
3d congress, Vienna, June 2-7. Monthly Labor R 19:685-9 S '24

INTERNATIONAL federation of working women
Congress, 1923, Schoenbrunn, Austria, August 14-18. Monthly Labor R 17:1111-12; 20:1387-8 N '23, Je '25

INTERNATIONAL finance. See Finance, International

INTERNATIONAL-Great Northern railroad
Annual report, 2d, 1923. Comm & Fin Chr 118: 2175-6 My 3 '24
Annual report, 3d, year ended Dec. 31, 1924. Comm & Fin Chr 120:3057-8 Je 13 '25
Commission approves acquisition of International-Great Northern by Gulf Coast lines. Ry R 74:1231-2 Je 21 '24
Control of I.G.N. by Gulf Coast lines authorized. Ry Age 76:1761-2 Je 21 '24
International-Great Northern securities. Moody's Inv Serv 16:27 Ja 17 '24

INTERNATIONAL harvester company
Annual report, 1923. Comm & Fin Chr 118: 2330-1 My 10 '24
Annual report—December 31, 1924. Comm & Fin Chr 120:1772-3 Ap 4 '25
Chatham works, I.H.C., celebrates perfect safety year. Nat Safety N 11:11-12 F '25
International harvester company. Moody's Inv Serv 16:305-8 Ag 7 '24

INTERNATIONAL health board
Disease prevention and the International health board. F: L. Hoffman. Spectator 113: 25-7 O 30 '24

INTERNATIONAL industrial welfare congress
First congress, Holland, June 19-26, 1925. L. C. Odencrantz. Am Management R 14:341-3 N '25; Taylor Soc Bul 10:231-2 O '25

INTERNATIONAL institute of agriculture
Agriculture's league of nations. W. J. Maddox. il Forbes 16:730-2 S 1 '25
International institute of agriculture at Rome. A. W. Gilbert. Am Bankers Assn J 18:39 Jl '25
World census of agriculture. C. B. Sherman. Am Bankers Assn J 17:749+ Je '25; Same. Econ W n s 30:40-2 Jl 11 '25

INTERNATIONAL labor conference, Fifth
5th conference, Geneva, Oct. 22-29. W: H. Cameron. Nat Safety N 9:6-7 Ja '24
5th session of the International labour conference. Int Labour R 8:789-810 D '23; Monthly Labor R 18:418-23 F '24

INTERNATIONAL labor conference, Sixth
Sixth session, Geneva, June 16-July 5. Monthly Labor R 19:679-85 S '24; Int Labour R 10:549-82 O '24

INTERNATIONAL labor conference, Seventh
Seventh session. Int Labour R 12:145-85 Ag '25; Monthly Labor R 21:430-4 Ag '25

INTERNATIONAL labor organization
International social progress. G: A. Johnston. 263p G. Allen & Unwin, ltd., London '24
Legal character of the International labour organisation. J. de Vilallonga. Int Labour R 9:196-207 F '24

INTERNATIONAL ladies' garment workers' union
Experiment of protocolism in the women's garment trades. Monthly Labor R 20:982-6 My '25
Hearings before governor's arbitration board on labor dispute in women's wear trades. Comm & Fin Chr 118:3145-6 Je 28 '24
Women's garment workers. L: Levine. 608p [bibliog. p. 555-68] Huebsch '24

INTERNATIONAL law and relations
International jurists at Geneva. Bradstreet's 53:241 Ap 11 '25
International problems discussed at Institute of politics at Williams College. Bradstreet's 53:497 Ag 1 '25
Lawless law of nations. S. E. Edmunds. 449p J. Byrne co., Washington, D.C. '25
World peace through codification of international law urged. C. E. Hughes. Comm & Fin Chr 120:2763-4 My 30 '25
See also Freedom of the seas; Maritime law; Trade marks (international law)

INTERNATIONAL law association
Conference, 33d, Stockholm. Economist 99:447-8 S 20 '24

INTERNATIONAL management congress
Congress, Prague, July 20-24. Iron Age 114: 500-1 Ag 28 '24; Mech Eng 46:624-5 O '24
1st International management congress proves most successful. H. V. Bozell. Am Mach 61:328a Ag 21 '24
Pimco, Prague. H. S. Person. Taylor Soc Bul 9:195-9 O '24
Real significance of Pimco. L. M. Gilbreth. Am Management R 14:181-3 Je '25

INTERNATIONAL mercantile marine company
Advance statement, year ended Dec. 31, 1924. Comm & Fin Chr 120:2934-5 Je 6 '25
Annual report, Dec. 31, 1923. Comm & Fin Chr 119:321 Jl 19 '24; Bradstreet's 52:366-7 Je 7 '24
Annual report for the year ended Dec. 31, 1924. Comm & Fin Chr 121:192 Jl 11 '25

INTERNATIONAL paper company
International paper company. Moody's Inv Serv 16:41-4 Ja 24 '24
International paper gets new start. Paper 33: 20-1 F 28 '24
Stockholders will vote on increasing and reclassifying the capital stock and on approving a new mortgage. Comm & Fin Chr 120:1211-12 Mr 7 '25

INTERNATIONAL petroleum congress
Leaders of industry are named for governors of oil congress. Nat Pet N 17:95 Ag 19 '25

INTERNATIONAL petroleum exposition
Expo. grounds look like boom town. J. C. Chatfield. il Nat Pet N 16:37-8 S 24 '24
Second International petroleum exposition, Tulsa, Okla., Oct 6-13. Oil Paint & Drug Rep 106:20+ O 20 '24
2d International petroleum exposition, Tulsa, Oct. 2-11. L. E. Smith. Nat Pet N 16:17-18 O 8; 33+ O 15 '24

INTERNATIONAL petroleum exposition—*Cont.*
Taps for 1924 oil show. H. Graffis. Pet Age 14:11-12 O 15 '24
Third exposition, Tulsa, Okla., Sept. 30-Oct. 10. Pet Age 16:21-3 O 1 '25; Iron Tr R 77: 1534 D 17 '25

INTERNATIONAL railroad master blacksmiths' association
Annual convention, 28th, Chicago, August 19-21. Ry Mech Eng 98:560-2, 619-20 S-O '24
Annual convention, 29th, Cleveland, Aug. 18-20. Ry Mech Eng 99:575-80, 649-52 S-O '25

INTERNATIONAL railway congress
Program. Ry R 76:1048-50 Je 13 '25
Program for International railway congress, London, June 22, 1925. Ry Age 77:661 O 11 '24
Railway congresses of other days. Ry Age 78:1431-2 Je 13 '25
Tenth session, London, June 22-27. Engineer 139:628-9, 646-8, 675-7, 712-13; 140:14-15 Je 5-Jl 3 '25; Engineering 119:804-8; 120:7-12, 38-41, 68-9 Je 26-Jl 17 '25; Electrician 95: 7-9 Jl 3 '25; Elec R (Lond) 97:10-11, 71-2, 116-17 Jl 3-17 '25; Eng N 95:155 Jl 23 '25; Iron Age 116:227-8 Jl 23 '25; Ry Age 79:81-7, 133-6 Jl 11-18 '25; Ry R 77:77-80, 115-20, 161-4, 249-51, 277-8, 352-3 Jl 18-Ag 1, 15-22, S 5 '25; Génie Civil 87:109-12, 126-7 Ag 1-8 '25

INTERNATIONAL railway fuel association
Annual meeting, 16th, Chicago, May 26-29. Ry Age 76:1319-22, 1365-7, 1513-17 My 31-Je 14 '24; Ry R 74:956-7, 1049-50 My 31-Je 7 '24; Ry Mech Eng 98:411-14 Jl '24
Annual meeting, 17th, Chicago, May 26-29. Ry Age 78:1345-51, 1387-95 My 30-Je 6 '25; Ry R 76:971-2, 1007-12 My 30-Je 6 '25; Ry Mech Eng 99:373-4, 453-62 Je-Jl '25

INTERNATIONAL railway general foremen's association
Annual convention, Chicago, Sept. 9-12. Ry Mech Eng 96:629-36 O '24
Annual convention, 19th, Chicago, Sept. 8-11. Ry Mech Eng 99:645-8 O '25; Am Mach 63: 492c S 17 '25; Ry R 77:385-6 S 12 '25

INTERNATIONAL shipping conference
International shipping conference, London. Engineer 137:548, 579 My 16-23 '24
Meeting, 2d, London. W. H. Wendon. Marine Eng 29:417-18 Jl '24

INTERNATIONAL shoe company
Another dissenting opinion from the Federal trade commission. Sales Management 9: 284+ S 5 '25

INTERNATIONAL society of textile chemists
Annual meeting, Zürich, May 17-20. Soc Dyers & Col J 41:251-3 Jl '25

INTERNATIONAL sociological congress
Congress, 3d, Rome, April 22-29. Monthly Labor R 19:914-16 O '24

INTERNATIONAL statistical institute
International statistical institute and its fifteenth session. J. A. Baines. Roy Statis Soc J 87:1-11; Discussion. 11-21 Ja '24

INTERNATIONAL street and interurban railway association (Central Europe)
Convention, 2d, Homburg von der Höhe, Sept. 3-5. Elec Ry J 64:1082-3 D 27 '24
Internationaler strassenbahn- und kleinbahnkongress Homburg v.d. Höhe, 1924. Dr. Ertel. Elektrotech Zeit 45:1244-6 N 13 '24

INTERNATIONAL telegraph convention. See Telegraph—Laws and regulations

INTERNATIONAL telephone and telegraph company
Annual report of the president to the stockholders—1923. Comm & Fin Chr 118:2969-72 Je 14 '24

INTERNATIONAL thrift congress
Discussions of the delegates in Milan. C: A. Miller. Am Bankers Assn J 17:388+ D '24

INTERNATIONAL town, city, and regional planning conference
City and regional planning conference, New York, April 20-25. Elec Ry J 65:662 Ap 25 '25; Eng N 94:733-4 Ap 30 '25; Can Eng 48: 456 My 5 '25
Conference, New York, April 20-24. L. Mumford. Am Inst Arch J 13:198-9 Je '25
International city and regional planning conference, New York, April 20-24. C: D. Lay. Arch Forum 42:283-4 My '25

INTERNATIONAL trade exhibition
New Orleans' International trade exhibition. E. V. Stier. il Comm & Fin 14:2111+ O 28 '25

INTERNATIONAL tramway, light railway and bus association
Le XIXe Congrès international de tramways, de chemins de fer d'intérêt local et de transports publics automobiles (Paris, 16-22 juin 1924). P. Calfas. diags Génie Civil 85: 10-14 Jl 5 '24
Meeting, Paris, June 16-20. Elec Ry J 64:168-9 Ag 2 '24

INTERNATIONAL typographical union
Number and earnings of members of International typographical union, 1909 to 1923. Monthly Labor R 17:1399 D '23

INTERNATIONAL union of pure and applied chemistry. See International conference of pure and applied chemistry

INTERPARLIAMENTARY union
Conference, 23d, Washington. Bradstreet's 53: 657 O 10 '25

INTERPOLATION
Shortened interpolation formula for certain types of data. E. P. Neale and D. M. Y. Sommerville. Am Statis Assn J 19:515-17 D '24

INTERRUPTERS, Electric. See Electric interrupters

INTER-SOUTHERN life insurance company
New life insurance giant. Spectator 114:20-1+ Ja 15 '25

INTERSTATE commerce
Interstate commerce act. K. K. Gartner. 97p La Salle extension univ., Chicago '24
Power and interstate commerce. P. P. Wells. Ann Am Acad 118:163-7 Mr '25
Statistics of the interstate railways of the United States for the year ended Dec. 31, 1923. Elec Ry J 65:697 My 2 '25
Tax-reducing methods in factory operation. L. Childs. Factory 32:266+ F '24
See also Transportation act, 1920

INTERSTATE commerce commission
Annual report. Ry Age 75:1061-4, 1113-15 D 8-15 '23
Annual report, 38th, to Congress. Ry Age 77: 1029-34 D 6 '24; Ry R 75:908-11 D 6 '24
Appropriations recommended for I.C.C. and Labor board. Ry Age 77:1020 D 6 '24
Certificates of convenience and necessity issued by Interstate commerce commission during year. Ry R 76:87-9 Ja 3 '25
Commission and the law. Ry Age 78:1072-3 My 2 '25
Commission defines its authority over motor trucks. Ry R 75:285-6 Ag 23 '24
Great Northern train control petition denied. Ry Age 79:805-8 O 31 '25
How to make rail and water rates pay. T. C. Powell. Ry R 77:882-5 D 12 '25; Same cond. Ry Age 79:845-6 N 7 '25
I.C.C. denies certificates for new railroad projects in Texas. Ry Age 77:482-3 S 20 '24
I. C. C. divided on certificate for new line to the Wenatchee Southern. Ry Age 77:325-6 Ag 23 '24
I.C.C. not an advocate. C. B. Aitchison. Ry Age 78:423-4 F 14 '25; Ry R 76:363-4 F 21 '25
I.C.C. statistics and operating efficiency. J. E. Slater. il Ry Age 75:907-10 N 17 '23
I.C.C. without jurisdiction to regulate operation of passenger trains. Ry Age 76:434 F 16 '24
Is interstate commerce commission an economic dictator? K. F. Burgess. Ry Age 79: 441-4 S 5 '25; Excerpts. Ry R 77:363-4 S 5 '25; Discussion. Ry Age 79:422-3 S 5 '25
Jurisdiction over interurban electric railway rates affirmed. Aera 13:1129-31 F '25

INTERSTATE commerce commission—*Cont.*
Problems and trials of the Interstate commerce commission. F. J. Lisman. Ry Age 79:153-6 Jl 18 '25
Procedure and proof before the Interstate commerce commission, in rate and allied cases. H. H. Hartman. 181p I: T. Hanson, Washington, D.C. '25
Rules of practice; rev., amended, and adopted December 10, 1923. 45p U.S. Interstate commerce comm., Washington, D.C. '23
Selection of Interstate commerce commissioners. Ry Age 78:820-1 Mr 28 '25
Senator Underwood criticizes lack of Southern I.C.C. members. Ry Age 79:650 O 10 '25
$6,853,962 recommended for I.C.C. Ry Age 78:237-8 Ja 17 '25
Two recent developments in the transportation field. J. G. Condon. Ptr Ink 132:81-2+ Ag 20 '25

Bureau of locomotive inspection

Annual report, 12th, for the year ending June 30, 1923. il Ry Mech Eng 98:18-20 Ja '24; Ry R 73:860-2 D 15 '23; Ry Age 76:285-8 Ja 26 '24; Am Mach 60:244 F 14 '24
Annual report, 13th. Ry Age 78:225-7 Ja 17 '25; Same. Ry Mech Eng 99:14-16 Ja '25
Annual report, 13th, of Bureau of locomotive inspection. A. G. Pack. Ry R 75:952-5 D 13 '24
Summary of the accomplishments of the Bureaus of safety and locomotive inspection. A. G. Pack. Ry Age 77:1177-8 D 27 '24

Bureau of safety

Summary of the accomplishments of the Bureaus of safety and locomotive inspection. A. G. Pack. Ry Age 77:1177-8 D 27 '24
Supplemental reports from the Bureau of safety. il Ry Age 77:679-80 O 18 '24

Bureau of service

I.C.C. creates section on efficiency of operation. Ry Age 78:1154 My 9 '25

INTERSTATE cottonseed crushers' association
Annual meeting, 28th, New Orleans, May 7-9. Oil Paint & Drug Rep 105:72 My 19 '24
Annual meeting, New Orleans, May 13-15. Oil Paint & Drug Rep 107:32 My 25 '25

INTERSTATE public service company of Indiana
Creates ten tons of freight for each trolley fare. O. D. Foster. il Forbes 16:22-4 Ap 15 '25

INTERURBAN railroads
Advertising the interurban. J. P. Griffin. Elec Ry J 64:663-4 O 11 '24
Effect of automobiles on interurban traffic. map Elec Ry J 64:386 S 13 '24; Same. Eng & Contr (Ry) 63:165-6 Ja 21 '25
Excursion rates make hit on Indianapolis & Cincinnati traction company. L. St. Clair. il Aera 13:1193-9 F '25
52-mile interurban for Florida. Elec Ry J 66: 764 O 24 '25
Freight business improves North Carolina interurban's operating ratio. il Elec Ry J 66:551-3 O 3 '25
Freight-carrying road held to be under section 15a. Aera 13:1380-3 Mr '25
How the interurban serves. J. A. McGowan. Elec Ry J 64:133 Jl 26 '24
I.T.S. buys observation interurban cars. il diag plans Elec Ry J 65:51-3 Ja 10 '25
I.C.C. order on section 15a. Elec Ry J 63:744-5 My 10 '24
Interstate commission controls rates of interstate interurbans. Elec Ry J 65:73 Ja 10 '25
Interurbans' problem. J: A. Beeler. Aera 13: 2013-16 Jl '25; Same. Elec Ry J 65:935-6; Discussion. 930 Je 13 '25
Interurbans rendering service of incalculable value throughout the Middle West. J. A. McGowan. Aera 13:54-7 Ag '24; Same. Elec J 21:460-2 O '24
Interurbans should indicate status. Elec Ry J 63:73 Ja 12 '24
Jurisdiction of Interstate commerce commission over interurban electric railway rates affirmed. Aera 13:1129-31 F '25
Making a place for the interurban. H. Reid. il Elec Ry J 66:504-6 S 26 '25
Outlook for interurbans stated. T: Conway, jr. Elec Ry J 63:182-3 F 2 '24
Rehabilitated property of the Aurora, Elgin & Fox river electric company lines attracts increased patronage. il Elec Ry J 63:569-73 Ap 12 '24
Section 15a is constitutional. Aera 12:1176-80 F '24
Statement of earnings of Union traction company of Indiana. Elec Ry J 65:831 My 23 '25
Steam line in Texas electrified to furnish interurban service. B. F. Cooke. il map Elec Ry J 65:647-52 Ap 25 '25; Same cond. Gen Elec R 28:237-42 Ap '25
Suburban cars for the D.L. & W. il plan Ry Age 78:843-5 Mr 28 '25; Ry Mech Eng 99: 223-6 Ap '25
Suburban electric and steam railway traffic. J. S. Hyatt. W Soc E J 30:168-71 Ap '25
Successor company to South Shore takes charge. Elec Ry J 66:109 Jl 18 '25
$39,734 after dividends for Baltimore interurban. Elec Ry J 65:713 My 2 '25

See also Electric railroads; Street railroads; *also* Piedmont and Northern railway

INTERVIEWING. See Employment systems—Interviews; Reporting

INVENTIONS
Can the suggestion box yield good results? Management & Adm 8:270 S '24
Clearing house for inventions; Research corporation. R. Nicholson. Am Ind 25:27-9 D '24
Criminal as an inventor. E: H. Smith. il Sci Am 130:376-7+ Je '24
Great inventions and how they were invented. C: R: Gibson. 240p Lippincott '23
Helping the inventor to invent. E. J. Prindle. Am Ind 24:26 Ap '24
History of radio inventions. A. H. Morse. diags Radio N 6:2048-9+ My '25
How to stimulate invention by employees. H. A. Toulmin, jr. Factory 32:490-2+ Ap '24
Inventions of Reginald A. Fessenden. Radio N 6:1140-2, 1389+, 1630-1+, 1851-3+, 2054-6, 2216-18+; 7:20-1+, 156-8+, 276-7+, 428-9+, 590-1+ Ja-N '25
Inventors and patentees. J. R. Langley. Elec J 21:326-30 Jl '24
Inventors, inventions and patent practice. C. L. Jenks. Chem Age 31:513-15 N '23
Marketing an invention. Am Mach 63:748 N 5 '25
Patentable inventions; how classified, defined and protected. O. B. Buchanan. Elec J 21: 143-8 Ap '24
Popular history of American invention. W. Kaempffert, ed. 2v Scribner '24
Principles of the Research corporation and their application to industry. A. A. Hamerschlag. Chem Age 32:323-5 Ag '24
Relations of inventions and patents to development. O. S. Schairer. Elec J 21:487-90 O '24
Rich man's son who has made more than 200 inventions. A. H. Ulm. por Forbes 14:483-4+ Jl 19 '24
Rights of inventors and patentees; how enforced. W. G. Carr. Elec J 21:434-8 S '24
Rights of the employee on his inventions. J. P. Nikonow. Am Mach 60:890 Je 12 '24
Study in feminine invention. il Sci Am 131:260 O '24
Thousand needed inventions. R. F. Yates. 175p Bureau of inventive science, Rochester, N.Y. '25
We make inventing an every-day job; B. F. Goodrich rubber co. J: R. Gammeter. il System 47:181-3+ F '25

See also Patents

Records

How to keep invention records. H. A. Toulmin, jr. Factory 34:598-601 Ap '25

INVENTORIES

Annual inventories of material and equipment; report. J Elec 54:527-9 Je 1 '25

Combined record system for costs and inventories. W: L. Myles. Am Mach 60:575-8 Ap 17 '24

Continuous inventory of fixed capital. A. J. Smith. Gas Age 53:201-2 F 16 '24; Same. Am Gas J 120:242+ Mr 15 '24

Control of inventory through the scientific determination of lot sizes. H. S. Owen. Ind Management 70:165-7, 235-9, 289-95 S-N '25 (to be cont)

Cost of a big inventory. C. H. French. Am Mach 60:590 Ap 17 '24

Daily stock control. W. H. L. Hamilton. il System 48:270-2 S '25

Does it pay to take an annual physical inventory? H. B. Freeman. Factory 32:666-8 My '24

Dull season inventories—rush season profits. J. H. Collins. Ptr Ink M 8:46+ Je '24

Economic control of inventory. J. H. Barber. 114p Codex book co., New York '25

Handling a complex material inventory. R. Rosenthal. Management & Adm 9:267-9 Mr '25

How inventories were reduced at the Dill and Collins company. D. E. Burchell. Management & Adm 8:527 N '24

How our perpetual inventory saves us the expense of guessing. W: P. Mackey. Factory 33:199-201+ Ag '24

How to maintain proper inventory control. H. S. Owen. Ind Management 69:83-5 F '25

Human element in material control. C: A. Williams. Paper Tr J 81:58+ Ag 20 '25

Inventory as a tool of management. T: Warren. Factory 32:33-4+ Ja '24

Inventory practice and material control. F: W. Kilduff. 446p McGraw-Hill '25

Inventory regulations and the income tax law. T. O. McGrath. Min Cong J 11:100-3 Mr '25

Inventory valuation and the business cycle; normal stock method. H. T. Warshow. charts Harvard Business R 3:27-34 O '24

Making short work of inventory taking. il Factory 31:764-6 D '23

Methods to keep inventories down to a minimum. W. J. Graham. Management & Adm 9:471-4 My '25

Modern practice in stores management. W: D. Gordon. chart Ind Management 66:320-6 D '23

More light on scientific inventory control. F: Salditt. Ind Management 69:344 Je '25

Natural business year. E. W. Sells. 276p Shaw '24

Operating adjustments under standard costs. R. W. Darnell. Management & Adm 7:183-6 F '24

Our salesmen take inventory to learn more about our line. O. W. Murphy. Ptr Ink 131:17-18 Ap 16 '25

Pricing the inventory. Paper Tr J 80:63-4+ My 7 '25

Quantity control of inventories. E. K. Wennerlund. Management & Adm 7:677-82 Je '24

Relationship of purchasing to inventories. H. N. Stronck. Factory 32:501-3+ Ap '24

Retail method of inventory. M. P. McNair. 143p Shaw '25

Simple perpetual inventory system. C. J. Morrison. Am Mach 60:175-6 Ja 31 '24

Stock-taking errors do not worry us now. System 47:467-8 Ap '25

Use of cost inventory data in compilation of income tax returns. Paper Tr J 79:51-2 Jl 31 '24

We know our earnings daily. S. C. Greusel. il System 46:720-2+ D '24

Why sales managers should work for the dull season inventory. A. A. Friestedt. Sales Management 8:945-6 Je 27 '25

See also Stores systems

INVENTORS

Invention and the inventor. B. Joy. Gas J (Lond) 168:38-9 O 1 '24

Inventors and their peculiarities. G: O. Draper. Textile World 67:1662 Mr 7 '25

See also Inventions; Women as inventors; *also* Edison, Thomas Alva; Henry, Beulah Louise

INVERTASE

Industrial applications of invertase. H. S. Paine, C. F. Walton, jr., and M. S. Badollet. il plans Ind & Eng Chem 17:445-50 My '25

Mutarotation as a factor in the kinetics of invertase action. J. M. Nelson and O. Bodansky. Am Chem Soc J 47:1624-38 Je '25

Some characteristics of invertase action. J. M. Nelson and G. Bloomfield. Am Chem Soc J 46:1025-43 Ap '24

INVERTERS, Electric current. See Electric current inverters

INVESTMENT bankers association of America

Annual convention, 13th, Cleveland, Sept. 22-24. Bradstreet's 52:621 S 27 '24; Comm & Fin Chr 119:1450-68 S 27 '24; Bankers M 109:977-82 N '24

Committees for the year 1924-1925. I B A of A 13:45-9 S 30 '24

Ideals and work. T: N. Dysart. I B A of A 14:49-51 O 31 '25

INVESTMENT banking

Comparison of British and American practice in issuing investment securities. T. H. McKittrick. Harvard Business R 3:185-93 Ja '25

Investigations preliminary to refinancing. W. P. Lukens. Management & Adm 8:271-5 S '24

Investment banker and public utilities. F. E. Frothingham. N E L A Bul 12:582-4 S '25

Investment banking in England. B. D. Nash. 114p Shaw '24

Investments and investment banking. G. G. Munn. Bankers M 109:1147+; 110:113+ D '24-Ja '25

Investor in relation to the investment banker. D. W. Morrow. Econ W n s 28:436-8 S 27 '24; Same. Comm & Fin Chr 119:1454-5 S 27 '24

Machinery of investment banking. C. Donaldson. Sci Am 133:271+ O '25

Methods in the distribution of securities to investors by an originating house. Harvard Business R 3:104-12 O '24

Place of the investment banker in business. P. M. Mazur. Annalist 26:147-8 Ag 7 '25

Relation of the investment bankers to their clients. I B A of A 12:197-205 F 29 '24

Reliable care of trust investments. H. E. Martin. Burroughs Clearing House 8:8-9+ Ap '24

Rise of investment banking. C. F. Birdseye. Burroughs Clearing House 9:12-14+ My '25

Specialization by a small investment banking house. Harvard Business R 3:115-20 O '24

INVESTMENT management

Management of investment funds. W: S. Scott. 48p Putnam '23

Managing investment funds. J: Moody. Forbes 16:672-3+ Ag 15 '25

Thickening a thin market for a property and investment advisor. Ptr Ink 125:114+ D 27 '23

INVESTMENT trust companies

Advantages of the investment trust company. Economist 100:701-3 Ap 11 '25

American investment trusts. R. D. Kilborne. Harvard Business R 3:160-70 Ja '25

Bankers' shares companies and investment trusts. R. A. Lewis, jr. Am Bankers Assn J 17:491-2+ F '25; Same. Econ W n s 29: 366-9 Mr 14 '25

Investment for the masses. J: Moody. Forbes 16:604+ Ag 1 '25

Investment trust. L. M. Speaker. 112p Shaw '24

Investment trust problems. Moody's Inv Serv 17:146 Ap 30 '25

Investment trusts. Annalist 24:399 O 20 '24

Investment trusts. Index p 12-13 Ag '24

Investment trusts. P. S. Krecker. Comm & Fin 13:1475-6 Ag 6 '24

INVESTMENT trust companies—*Continued*
Investment trusts in Great Britain. P. Einzig. Bankers M 110:227-34 F '25
Investment trusts in Great Britain. J. Wright. J Account 38:337-44 N '24
Some management problems of investment trusts. E: M. Campbell. Harvard Business R 2:296-302 Ap '24
Statistics. Economist 98:619-20 Mr 22 '24
Study of investment trusts. L. R. Robinson. 14p W. T. Watson & co., Bridgeport, Conn. '24
What of the investment trust? T. D. MacGregor. Burroughs Clearing House 10:29-30+ O '25

See also Bancitaly corporation

INVESTMENT trust corporation
Annual general meeting, 37th. Economist 100: 1206-7 Je 13 '25

INVESTMENTS
Association's Y.M.C.A. course in investments. S: O. Rice. I B A of A 12:193-6 F 29 '24
Billion dollars more sales; make communities safe for decent business. R. Dickinson. Ptr Ink 128:117-18+ S 25 '24
Blue-sky promoter is stealing your sales! R. Dickinson. Ptr Ink 127:3-4+ My 1 '24; Abstract. Bankers M 109:209-10 Ag '24
Case for the investor. R: F. Grant. il Nation's Business 13:38-41 F '25
Commodities, inventories and investments. Moody's Inv Serv 17:349-52 O 22 '25
Elements of investment safety. A. V. Shaw. Harvard Business R 3:447-55 Jl '25
Financial independence at fifty. V: de Villiers. 3d ed., rev. & enl. 223p The Magazine of Wall Street, New York '24
How to keep your money and make it earn more. H. N. Casson. 147p Forbes pub. co., New York '23
How to select a profitable short-time security. W. E. Lagerquist. System 48:381+ O '25
How to select bonds. F. J. Lisman. Published in second numbers of each month of Forbes from January, 1924 thru June, 1925
How we invest our surplus earnings. F. W. Albrecht. il System 48:39-41+ Jl '25
Institutional investing. J: Moody. Forbes 16: 173-5 My 15 '25
Investing for profit. J: Moody. Forbes 16: 27-9 Ap 15 '25
Investing for safety plus. J: Moody. Forbes 16:110+ My 1 '25
Investing for the modest trust. D. W. Holgate. Am Bankers Assn J 18:85-6 Ag '25
Investment, a new profession. H: S. Sturgis. 210p Macmillan '24
Investment counsel. 3d ed., rev. 45p Scudder, Stevens & Clark, New York '24
Investment cycles. J: Moody. Forbes 15:830+ Ap 1 '25
Investment policies for women. J: Moody. Forbes 16:448-50 Jl 1 '25
Investment versus speculation. J: Moody. Forbes 15:170-2 N 1 '24
Investments. 544p American inst. of banking, New York '24
Investments. F. W. Thornton. J Account 40: 329-36 N '25
Investments and investment banking. G. G. Munn. Bankers M 109:1147+; 110:113+ D '24-Ja '25
Investments for business men. J: Moody. Forbes 16:332-4 Je 15 '25
Jordan on investments. D: F. Jordan. 2d ed., rev. 378p Prentice-Hall '24
Lasting boon of the war loan drives. G. Emerson. Am Bankers Assn J 18:208+ O '25
Mathematical theory of investment. E. B. Skinner. Rev. ed. 269p Ginn '24
Middle classes are the big buyers of everything. Ptr Ink 129:87-8+ O 2 '24
Miscellaneous investments. J: Moody. Forbes 15:761-3 Mr 15 '25
Modern investor has the nation—the world—at his feet. J: Moody. Forbes 15:79-80+ O 15 '24
Mortgage in the investment field. G: C. Cox. Annalist 22:843-4; 23:107-8+, 135-6 D 31 '23, Ja 14-21 '24
Patent rights as an investment basis. J: K. Brachvogel. Sci Am 132:418 Je '25
Permanent investment policy. Moody's Inv Serv 17:81-4 Mr 5 '25
Principles of investment. J: E. Kirshman. 902p Shaw '24
Principles of investment. A. M. Sakolski. 503p Ronald press '25
Principles of investment applicable to the business of life insurance. C. B. Messenger. Econ W n s 27:490-2 Ap 5 '24
Progress of the "before you invest-investigate" movement. H. J. Kenner. Comm & Fin Chr 119:1559 O 4 '24
Protecting the small investor. H. J. Kenner. Am Ind 24:35-6 Ja '24
Providing investments for the savings depositors. V. R. Patterson. Am Bankers Assn J 17:623+ Ap '25
Sane methods of investing money. R. W. Babson. Comm & Fin Chr 121:1529-30 S 26 '25
Scientific diversification of investments. C. Donaldson. Sci Am 133:204-5 S '25
Selection and care of sound investments. A. H. Herschel. 373p [bibliog. p. 345-54] H. W. Wilson co. '25
Selection of investments. J: Moody. Forbes 15:232-4 N 15 '24
Speculation and investment. E. L. Smith. Comm & Fin 14:2202-3 N 11 '25
Successful investment policies. J: Moody. Forbes 16:734-6 S 1 '25
Successful methods for building an income. E. B. Gowin. 48p Putnam '23
Things to tell your men. G: E. Roberts. Nation's Business 12:52+ N '24
Value of bank shares as investments. P. Gourrich. Annalist 25:413, 445-6, 550-1+, 613-14, 869-70; 26:309-10+ Mr 23-30, Ap 20, My 4, Je 29, S 11 '25
Who gets the money you invest? J: Moody. Forbes 16:822+ S 15 '25
Women and their investments. F. L. Wendell. Burroughs Clearing House 8:33+ Jl '24

See also Banks and banking—Investments; Bonds; Brokers; Building loans; Insurance companies—Securities; Interest; Investment banking; Investment trust companies; Loans; Mortgages; Municipal bonds; Promoters; Public utilities—Securities; Railroads—Securities; Savings banks—Securities; Securities; Stock exchange; Stocks; *also* San Francisco stock and bond exchange

Accounting

See also Interest

Advertising

Blue-sky promoter is stealing morale. R. Dickinson. Ptr Ink 129:17-20 O 2 '24
Dry-as-dust charts vs. the other kind. D. Gridley. Ptr Ink 129:53-4+ D 11 '24
Footballs of public opinion. R. Stevenson, jr. Ptr Ink 129:181+ O 16 '24
How investment bankers use and view advertising. J: W. Prentiss. Ptr Ink 126:44+ F 21 '24
Investment advertising. F. L. Blanchard. Gas Age 54:479-82 O 4 '24; Excerpt. Comm & Fin Chr 119:284 Jl 19 '24
Is the offering advertisement doing its job. A. M. DeBebian. Comm & Fin Chr 121: 1867-8 O 17 '25
Let's modernize the security offering advertisement. A. M. DeBebian. Ptr Ink 133: 74+ O 29 '25
Radio education for investors. S: O. Rice. I B A of A 12:228 Mr 31 '24
Report of committee on circulars. I B A of A 13 no 10:294-300 My 21 '25
To advertise investment principles. Comm & Fin 13:1890 O 1 '24
Way to cash in on sport interest. D. Hubbard. Ptr Ink 128:108+ Jl 3 '24
What thrift means to business and government. A. W. Mellon. Ptr Ink 128:10+ Jl 3 '24

See also Bonds—Advertising

INVESTMENTS—*Continued*

Tables, calculations, etc.

Yields of bonds and stocks in per cent. D: C. Johnson and others. 263p Prentice-Hall '23
Yields of bonds and stocks in per cent. D: C. Johnson and others. 291p Prentice-Hall '25

INVESTMENTS, Foreign

America as creditor nation. A. Johnson. Ann Am Acad 120:90-5 Jl '25
American investments abroad put at five billion dollars. J: E. Barber. Comm & Fin Chr 119:2490-2 N 29 '24; Same. Econ W n s 28:872-4 D 20 '24
American investor—through European eyes. P. Einzig. Bankers M 109:907+ N '24
American investors and foreign securities. E. H. H. Simmons. Econ W n s 28:112-14 Jl 26 '24
American investors and pending European loans. Moody's Inv Serv 17:285-8 Ag 27 '25
America's foreign investments $9,500,000,000. Bradstreet's 53:481 Jl 25 '25
America's growing investment abroad. Annalist 24:445 N 3 '24
Dawes plan and foreign exchange and investments. R. S. Tucker. Econ W n s 28:270-1 Ag 23 '24
Foreign capital investments in Russian industries and commerce. L. J. Lewery. U S Bur For & Dom Com misc ser 124:1-28 '23
Foreign loans and the three C's. G: W. Edwards. il Burroughs Clearing House 9:5-7+ S '25
Foreign securities floated in the United States in the first half of 1925. T. R. Goldsmith. Econ W n s 30:116 Jl 25 '25
Fostering international good will through foreign investments. J. S. Hess. Ann Am Acad 120:96-7 Jl '25
Government control of investments. Economist 99:261-2 Ag 16 '24
Investment of American capital in foreign countries. J: P. Young. Econ W n s 30: 364-7 S 12 '25
Investments in Latin America; Argentina. F: M. Halsey and C. B. Sherwell. U S Bur For & Dom Com Trade Informaton Bul 362:1-85 '25
Mr J. M. Keynes' recent critique of British foreign investment policy. A. R. Marsh. Econ W n s 28:327-8 S 6 '24
Our foreign loans vs. our export surplus. J. Stamp. Annalist 26:539 O 30 '25
Outflow of American funds. A. H. Ulm. Annalist 25:190 F 2 '25
Protecting our foreign bondholders. G. Jones. Am Bankers Assn J 17:298+ N '24
Report of foreign securities committee of Investment bankers association. Comm & Fin Chr 119:1558 O 4 '24
Report of I.B.A. foreign securities committee; proposals for creation of bureau to furnish information on foreign bonds. Comm & Fin Chr 119:1466-7 S 27 '24
Selecting foreign investments. J: Moody. Forbes 15:692-4+ Mr 1 '25
Significance of emigrant dollars; foreign bond problem. F. E. Tyng, jr. Annalist 22:663-4 N 19 '23
U. S. foreign loans for first six months of 1925 total over half billion. Bankers M 111: 367+ S '25
What foreign investment will teach America. Annalist 24:479-80+ N 10 '24
What your dollar does abroad. C: H. Sabin. il Nation's Business 12:13-16 O '24
Why the United States should encourage foreign investments. F. J. Lisman. Ann Am Acad 120:98-101 Jl '25

See also Loans, Foreign

INVISIBLE exchange. See Balance of trade

INVOICE forms

Standard invoice form adopted by National conference. Ry R 76:228 Ja 31 '25
Uniform invoices. E. J. Kulas. Am Mach 63: 737 N 5 '25
Which form of invoice is best? il Iron Age 116:1106-8 O 22 '25
Why not use the standard invoice form? R. M. Hudson. Ry Age 77:899-900 N 15 '24; Same. Ry R 75:803-5 N 15 '24; Same. Aera 13:1165-8 F '25

INVOICES

How not to invoice supplies. Eng & Min J 118:94-6 Jl 19 '24

IODATES

Action of some oxidizing agents on sulfite and its determination with iodate. W. S. Hendrixson. Am Chem Soc J 47:1319-25 My '25

IODIC acid

Reaction between carbon monoxide and iodic acid in aqueous sulfuric acid. A. B. Lamb, A. W. Phillips and R. K. Carleton. Am Chem Soc J 46:2017-26 S '24

IODIDES

Detection of traces of iodides. F. B. Wade. Ind & Eng Chem 17:470 My '25
Relation between the structure of organic halides and the speed of their reaction with inorganic iodides; the problem of alternating polarity in chain compounds. J. B. Conant and W. R. Kirner. Am Chem Soc J 46:232-52 Ja '24
Relation between the structure of organic halides and the speeds of their reaction with inorganic iodides; a study of the alkyl chlorides. J. B. Conant and R. E. Hussey. Am Chem Soc J 47:476-88 F '25
Relation between the structure of organic halides and the speeds of their reaction with inorganic iodides; the influence of unsaturated groups. J. B. Conant, W. R. Kirner and R. E. Hussey. Am Chem Soc J 47:488-501 F '25
Use of iodides in water supplies to prevent simple goiter. A. F. Mellen. bibliog Eng N 95:352-4 Ag 27 '25

IODIDES, Alkyl. See Alkyl iodides

IODINATION

Use of the salts of the arylsulphonhalogenoamides in the estimation and iodination of phenols. E. Roberts. Chem Soc J 123:2707-12 O '23

IODINE

Action of light on the ferrous ferric iodine iodide equilibrium. E. K. Rideal and E: G. Williams. diag Chem Soc J 127:258-69 Ja '25
Carbonisation of seaweed as a preliminary to the extraction of iodine and potassium salts. J. G. King. 15p Gt. Brit. Dept. of sci. & ind. research, Fuel research bd., London '24
Composition of starch iodide. H. D. Murray. Chem Soc J 127:1288-94 Je '25
Decolorization of carbon disulphide solutions of iodine by red phosphorus. R. N. Traxler and F. E. E. Germann. J Phys Chem 29:1119-24 S '25
Diffusion of mercury and of iodine vapours through nitrogen. J. M. Mullaly and H. Jacques. diag Philos Mag 6th ser 48:1105-22 D '24
Equilibrium between iodine and barium iodide in aqueous solutions. J. N. Pearce and W. G. Eversole. J Phys Chem 28:245-55 Mr '24
Hydrolysis of iodine as measured by the iodine electrode. H. D. Murray. Chem Soc J 127:882-5 Ap '25
Influence of water on certain chemical reactions; the reaction between hydrogen sulfide and iodine in ether solution. L. B. Parsons. diag Am Chem Soc J 47:1820-30 Jl '25
Influence of water on certain chemical reactions; the reactions between certain metals and iodine. L. B. Parsons. Am Chem Soc J 47:1830-5 Jl '25
Iodine as an emulsifying agent. H. N. Holmes and H. A. Williams. Am Chem Soc J 47: 323-5 F '25
Nature of the iodine line 2062A. L: A. Turner and K. T. Compton. Phys R 25:791-4 Je '25
New methods of splitting pyrimidines; the action of iodine solution on pyrimidines. L. W. Bass and O. Baudisch. Am Chem Soc J 46:181-3 Ja '24

IODINE—*Continued*
Sorption of iodine and catalytic decomposition of hydrogen peroxide solution, by Norit charcoals. J. B. Firth and F. S. Watson. bibliog J Phys Chem 29:987-94 Ag '25
Sorption of iodine by carbons prepared from paraffin hydrocarbons, carbon dioxide, aromatic hydrocarbons and derivatives, and from the products of oxidation of wood charcoal with fuming nitric acid. J. B. Firth, W. Farmer and J: Higson. Chem Soc J 125:488-92 Mr '24
Starch-iodine reaction. N. R. Dhar. J Phys Chem 28:125-30 F '24
Starch-iodine reaction; abstract. K. C. Sen. Soc Dyers & Col J 40:384 N '24
Viscosity and surface tension of solutions of iodine and potassium iodide. E. A: Dancaster. Chem Soc J 125:2036-7 O '24

See also Goiter; Halogens; Iodometry; Water supply—Iodine treatment

Analysis

Method for the determination of small amounts of iodine as iodide and iodate. N. A. Lange and L. A. Ward. Am Chem Soc J 47:1000-3 Ap '25

Therapeutic use

Iodine an instant aid for accidents among utility workmen. R. A. Bloomsburg. il Gas Age 54:79 Jl 19 '24

IODINE compounds
Blue adsorption compounds of iodine. G: Barger and F: J: Eaton. Chem Soc J 125:2407-14 N '24

IODINE numbers
Influence of several solvents on the Hanus iodine values of cottonseed and coconut oils. H. J. Bankston, jr., and F. C. Vilbrandt. Ind & Eng Chem 16:707-8 Jl '24
Iodine values of cracked gasolines. A. B. Miskin. bibliog Inst Pet Tech J 10:297-302; Discussion. 302-5 Je '24

IODOMETRY
Accurate evaluation of potassium chlorate by the method of Bunsen. E. C. Wagner. diag Ind & Eng Chem 16:616-20 Je '24
Iodimetric determination of vanadium. A. E. Stoppel, C: F. Sidener and P. H. M.-P. Brinton. Am Chem Soc J 46:2448-53 N '24
Standard methods in analysis by iodine. C. F. Green. Textile Col 47:716 N '25
Standardization of solutions used in iodimetry. S. Popoff and J. L. Whitman. diag Am Chem Soc J 47:2259-75 S '25
Standardization of thiosulfate solution by the permanganate-iodide and dichromate-iodide methods. W: C. Bray and H. E. Miller. Am Chem Soc J 46:2204-11 O '24

IODOPHENYLTRIMETHYLAMMONIUM perhalides
p-iodophenyltrimethylammonium perhalides. T: H. Reade and S. A. Sim. Chem Soc J 125:157-60 Ja '24

IODOTOLUENES
Polarity effects in the isomeric ω-bromoxylenes and isomeric iodotoluenes. J: B. Shoesmith and R. H: Slater. Chem Soc J 125: 2278-83 N '24

IODOTOLUIDINE
Toluidine derivatives; quantitative preparation of 5-iodo-2-aminotoluene and some of its derivatives. R. M. Hann and J. F. T. Berliner. Am Chem Soc J 47:1709-12 Je '25

IONAMINES
Dyeing acetate silk. C: E. Mullin. Am Dyestuff Rep 14:482-4+ Jl 27 '25
Progress of research in the ionamine dyestuffs; abstracts. A. G. Green and K. H. Saunders. Chem Age (Lond) 10:140 F 9 '24; Soc Chem Ind J (Chem & Ind) 43:145 F 8 '24; Soc Dyers & Col J 40:138-41 My '24

IONIUM
Ionium; recovery of ionium from carnotite—adsorption of ionium-thorium by barium sulfate—ionium-thorium ratio in carnotite. G. D. Kammer and A. Silverman. Am Chem Soc J 47:2514-22 O '25
Relation between uranium and radium; the period of ionium and the ionium-thorium ratio in Colorado carnotite and Joachimsthal pitch-blende. F: Soddy and A. F. R. Hitchins. Philos Mag 6th ser 47:1148-58 Je '24

IONIZATION, Electrolytic
Dilution law for uni-univalent salts. B. Szyszkowski. J Phys Chem 28:193-211 Mr '24
Electronic theory of valency; intramolecular ionization in organic compounds. T. M. Lowry. Philos Mag 6th ser 46:964-76 N '23
Hydrogen and oxygen electrode titrations of some dibasic acids and of dextrose. H. T: S. Britton. Chem Soc J 127:1896-1917 Ag '25
Inter-ionic attraction theory of ionized solutes. A. A. Noyes. Am Chem Soc J 46:1080-1116 My '24
Inter-ionic attraction theory of ionized solutes; testing of the theory in alcoholic solvents. A. A. Noyes and W. P. Baxter. Am Chem Soc J 47:2122-9 Ag '25
Inter-ionic attraction theory of ionized solutes; the influence of variation of dielectric constant on the limiting law for small concentrations. P. Debye and L. Pauling. Am Chem Soc J 47:2129-34 Ag '25
Ionisation constant of hypochlorous acid. F: G: Soper. diag Chem Soc J 125:2227-31 N '24
Ionisation of aromatic nitro-compounds in liquid ammonia. M. J. Field, W: E: Garner and C. C. Smith. Chem Soc J 127:1227-37 Je '25
Ionization of strong electrolytes. W. H. Rodebush. J Phys Chem 28:1113-17 O '24
Ionisation of two electrolytes in alcohol-water mixtures; influence of environment on ionisation. F. Bradley and W. C. M. Lewis. J Phys Chem 29:782-91 Jl '25
Solubility of silver bromate in solutions of other salts and the corresponding activity relations. R. H. Dalton, R. Pomeroy and L. E. Weymouth. Am Chem Soc J 46:60-4 Ja '24
Study of the electrolytic dissociation of some salts in furfural. F: H. Getman. J Phys Chem 28:212-20 Mr '24
Theory of interionic attraction in strong electrolytes. S. R. Pike and G. Nonhebel. Philos Mag 6th ser 50:723-8 O '25

See also Electric conductivity; Radioactivity

IONIZATION, Gaseous
Absence of ionization by electrons with speeds comparable with that of light. W. F. G. Swann. Philos Mag 6th ser 47:306-19 F '24
Application of positive ray analysis to ionization problems. H. D. Smyth. diags J Fr Inst 198:795-811 D '24
Atmospheric electric observations taken at the University of Chicago during the total eclipse of January 24, 1925. E. N. Coade and W: W. Merrymon. diags J Fr Inst 200: 497-9 O '25
Atmospheric electric observations taken at Yale university during the total eclipse of January 24, 1925. W. F. G. Swann. diag J Fr Inst 200:489-96 O '25
Attachment of electrons to gas molecules. V. A. Bailey. diags Philos Mag 6th ser 50:825-43 O '25
Behaviour of hydrogen in the discharge due to alternating electric fields of high frequency. R. W. Lunt. Philos Mag 6th ser 49:1238-49 Je '25
Characteristic X-rays from lithium. G. K. Rollefson. Phys R 25:740-6 Je '25
Chemical action of gaseous ions produced by alpha particles; reactions of the oxides of carbon. S. C. Lind and D. C. Bardwell. diags Am Chem Soc J 47:2675-97 N '25
Critical potentials. K. T. Compton and F. L. Mohler. il diags Nat Research Council Bul v 9, pt 1:1-135 [bibliog. p. 128-35] S '24
Critical potentials associated with excitation of alkali spark spectra. F. L. Mohler. diags U S Bur Stand Sci Pa 505:167-91 '25

IONIZATION, Gaseous—*Continued*
Derivation of Saha's equation for temperature ionization. W. F. G. Swann. J Fr Inst 200:591-4 N '25
Disappearance of gas in the electric discharge. Philos Mag 6th ser 48:553-80 S '24
Effect of surface charges in vacuum discharge tubes. A. R. Olson and T. F. Young. Phys R 25:58-65 Ja '25
Electrical properties of helium. J. S. Townsend and S. P. McCallum. diags Philos Mag 6th ser 47:737-53 Ap '24
Electrical properties of neon, hydrogen, and nitrogen. S. P. McCallum and C. M. Focken. Philos Mag 6th ser 49:1309-20 Je '25
Electrochemistry of gases. S. C. Lind. Am Electrochem Soc Trans v 44 (preprint 7): 61-9 S '23; Same. Brass W 20:101-3 Mr '24
Energies of multiple X-ray ionization of light atoms. L: A. Turner. Phys R 26:143-9 Ag '25
Gas ion mobilities and their independence of the nature of the ion. L. B. Loeb. bibliog Philos Mag 6th ser 48:446-58 S '24
Gaseous ionization in built-up insulation. J. B. Whitehead. Am Inst E E J 43:19-25 Ja '24; Discussion. 43:1165-8 D '24
Impact effects in nitrogen and nitric oxide. C. B. Bazzoni and A. T. Waldie. bibliog J Fr Inst 197:57-72 Ja '24
Influence of gaseous ionization and spark discharge on fibrous insulating materials and on mica. J. B. Whitehead. bibliog diags Am Inst E E J 42:1297-1304 D '23
Ionization by collision in helium. J. S. Townsend and T. L. R. Ayres. Philos Mag 6th ser 47:401-15 F '24
Ionization, excitation, and dissociation of gases. A. L. Hughes. Philos Mag 6th ser 48:56-64 Jl '24
Ionization of caesium vapor and the mobility of electrons in the Bunsen flame. B. T. Barnes. diags Phys R 23:178-88 F '24
Ionization of gases as a function of the energy of electron impacts. A. L. Hughes and E. Klein. diags Phys R 23:450-63 Ap '24
Ionization of hydrogen by electron impact as interpreted by positive ray analysis. T. R. Hogness and E. G. Lunn. bibliog diags Phys R 26:44-55 Jl '25
Ionization of HCl by electron impacts. E. F. Barker and O. S. Duffendack. diag Phys R 26:339-45 S '25
Ionization of salt vapors. W. M. Latimer. Am Chem Soc J 45:2803-8 D '23
Ionizing potentials of helium and some multiatomic gases. C. A. Mackay. Philos Mag 6th ser 46:828-35 N '23
Ionizing potentials of multiatomic gases. C. A. Mackay. diag Phys R 24:319-29 O '24
Low voltage arcs in phosphorus vapor. O. S. Duffendack and H. Huthsteiner. diags Phys R 25:501-8 Ap '25
Low-voltage arcs in sodium and potassium vapours. F. H. Newman. diag Philos Mag 6th ser 49:1057-64 My '25
Low-voltage glows in hydrogen. G. Stead and B. Trevelyan. diags Philos Mag 6th ser 48:978-1006 N '24
Observations on residual ionization in a closed vessel, taken at Biwabic, Minnesota, during the solar eclipse of January 24, 1925. H: A. Erikson. J Fr Inst 200:505-6 O '25
Opacity of an ionized gas. J: Q. Stewart. Phys R 22:324-32 O '23
Photo-electric ionization of caesium vapor. P. D. Foote and F. L. Mohler. diag Phys R 26:195-207 Ag '25
Primary and secondary products of ionization in hydrogen. H. D. Smyth. diags Phys R 25:452-68 Ap '25
Probability of ionization of gas molecules by electron impacts. K. T. Compton and C. C. Van Voorhis. diags Phys R 26:436-53 O '25
Quantum defect and atomic number. L: A. Turner. Philos Mag 6th ser 48:1010-14 N '24
Relative ionization in different gases for slow-moving electrons. W: P. Jesse. diag Phys R 26:208-20 Ag '25
Saha's ionization formula, and the theoretical value of the photo-electric absorption coefficient. E. A. Milne. Philos Mag 6th ser 50:547-50 S '25
Single and double ionization of argon by electron impacts. H: A. Barton. Phys R 25:469-83 Ap '25
Sparking-potential of gases. G. Holst and E. Oosterhuis. Philos Mag 6th ser 46:1117-22 D '23
Spectra and their excitation, ionisation and critical potentials. Engineering 118:321-2 S 5 '24
Statistical equilibrium with special reference to the mechanism of ionization by electronic impacts. R. H. Fowler. Philos Mag 6th ser 47:257-77 F '24
Studies with ionization gauge. C. G. Found and S. Dushman. diag Phys R 23:734-43 Je '24
Study of ionization produced in certain gaseous reactions. A. K. Brewer. diags Am Chem Soc J 46:1403-19 Je '24
Study of the luminous discharge in chlorine; the electron affinity of halogen molecules. W. A. Noyes, jr. diag Am Chem Soc J 46: 1598-1606 Jl '24
Total ionization produced in air by electrons of various energies. G. A. Anslow. diags Phys R 25:484-500 Ap '25

IONOGEN (term)
Electrolytes and ionogens. W. Blum. Am Electrochem Soc Trans v 47 (preprint 8): 99-102 Ap '25; Same. Brass W 21:194 Je '25

IONONES
Condensation of citral with ketones and synthesis of some new ionones. H. Hibbert and L. T. Cannon. Am Chem Soc J 46:119-30 Ja '24

IONS
Activity coefficients of ions in very dilute solutions. J. N. Brönsted and V: K. La Mer. diag Am Chem Soc J 46:555-73 Mr '24
Adsorption and Schulze's law. H. B. Weiser. J Phys Chem 29:955-65 Ag '25
Attempted electrolytic separation of the isotopes of chlorine and magnesium. J: E. G. Pilley. Philos Mag 6th ser 49:889-99 My '25
Basis for the physiological activity of certain -onium compounds; the mobilities of the -onium ions; sulfonium ions. I: Bencowitz and R. R. Renshaw. diag Am Chem Soc J 47:1904-16 Jl '25
Conception and properties of the electrical double layer and its relation to ionic migration. J. W. McBain. diags J Phys Chem 28:706-14 Jl '24
Conductivity of electrolytes; the mobility of the hydrogen ion at 25°. C. W. Davies. J Phys Chem 29:973-6 Ag '25
Constitution of gaseous ions. J. J. Nolan. diag Phys R 24:16-30 Jl '24
Constitution of soap solutions in presence of electrolytes; potassium laurate and potassium chloride. W: C. Quick. Chem Soc J 127:1401-11 Je '25
Constitution of soap solutions: migration data for potassium oleate and potassium laurate. J. W: McBain and R: C. Bowden. diags Chem Soc J 123:2417-30 O '23
Effect of complex formation on oxidation potentials; the influence of the cyanide-ion on the ferrocyanide-ferricyanide potential. J. A. V. Butler and G: P. Davies. Chem Soc J 125:1101-6 My '24
Effect of the gauze in the Franck modification of the Rutherford alternating current method for measuring ionic mobilities. L. B. Loeb. diags J Fr Inst 196:771-8 D '23
Effect of variable electron mobilities on the formation of negative ions in air. L. B. Loeb. J Fr Inst 197:45-55 Ja '24
Effects of ions in colloidal systems. L. Michaelis. 108p Williams & Wilkins co., Baltimore '25
Emission from an incandescent platinum wire in air. A. M. Tyndall and G. C. Grindley. diags Philos Mag 6th ser 47:689-702 Ap '24

IONS—*Continued*
Emission of positive ions from hot tungsten. W. A. Jenkins. diags Philos Mag 6th ser 47:1025-47 My '24
Free energy of dilution and the activity of the ions in aqueous solutions of barium chloride. J. N. Pearce and R. W. Gelbach. J Phys Chem 29:1023-30 Ag '25
Gas ion mobilities. L. B. Loeb. Philos Mag 6th ser 49:517-19 F '25
General formulation of movement in an electrical field; migration, electrophoresis and electroösmosis of sodium oleate. M. E. Laing. diags J Phys Chem 28:673-705 Jl '24
Individual thermodynamic properties of ions. J. N. Brönsted. Am Chem Soc J 45:2898-2910 D '23
Influence of gelatin on the transference numbers of hydrochloric acid. W. G. France and W. H. Moran. Am Chem Soc J 46:19-30 Ja '24
Influence of gelatin on transference numbers. G: Scatchard. Am Chem Soc J 46:2353-7 N '24
Inorganic complex salts; racemisation and the stability of complex ions. W: Thomas and R. Fraser. Chem Soc J 123:2973-6 N '23
Ionic equilibria across semi-permeable membranes. N Kameyama. Philos Mag 6th ser 50:849-64 O '25
Mobility in air of ions produced in another gas. G. C. Grindley and A. M. Tyndall. diag Philos Mag 6th ser 48:711-19 O '24
Mobility of actinium active deposit ions. H: A. Erikson. diags Phys R 24:622-6 D '24
Mobility of argon and hydrogen ions in air. H: A. Erikson. diags Phys R 26:465-8 O '25
Mobility of negative ions in flames by the Hall effect method. J. S. Watt. Phys R 25: 69-74 Ja '25
Mobility of the positive ions in air. H. B. Wahlin. Philos Mag 6th ser 49:566-70 Mr '25
Motion of electrons in gases. J. S. Townsend. J Fr Inst 200:563-90 N '25
Motions of electrons in gases and the formation of negative ions in air. L. B. Loeb. Philos Mag 6th ser 46:1088-9 D '23
Moving-boundary method for determining transference numbers. E. R. Smith and D. A. MacInnes. diags Am Chem Soc J 46: 1398-1403 Je '24
Moving-boundary method for determining transference numbers; a novel form of apparatus. D. A. MacInnes and T. B. Brighton. diags Am Chem Soc J 47:994-9 Ap '25
Moving-boundary method for determining transference numbers; the transference numbers of some chloride solutions. E. R. Smith and D. A. MacInnes. diag Am Chem Soc J 47:1009-15 Ap '25
Nature of the ions in air and in carbon dioxide. H: A. Erikson. diag Phys R 24:502-9 N '24
Negative ion emission from oxide coated filaments. H: A. Barton. Phys R 26:360-3 S '25
Recombination of gaseous ions, the chemical combination of gases, and monomolecular reactions. J. J. Thomson. diags Philos Mag 6th ser 47:337-78 F '24
Refraction and electron constraint in ions and molecules. C: P. Smyth. Philos Mag 6th ser 50:361-75 Ag '25
Relationship between atomic numbers and the properties of ions in the crystal lattice. A. F. Scott. J Phys Chem 29:304-18 Mr '25
Relative mobility of initial positive ions in gas mixtures at low pressures. H. B. Wahlin. Phys R 25:630-5 My '25
Solubility of bi-bivalent salts in solutions containing a common ion. O. J. Walker. Chem Soc J 127:61-6 Ja '25
Solubility product of barium manganate and the equilibrium between manganate and permanganate ions. H. I. Schlesinger and H. B. Siems. diag Am Chem Soc J 46:1965-78 S '24
Study of ions and electrons for electrical engineers. H. J. Ryan. bibliog Am Inst E E J 44:964-7 S '25; Discussion. 45:59-61 Ja '26
Study of the viscosities of solutions containing mixtures of mercuric, cupric and cobaltous chlorides with other chlorides for the purpose of finding the composition of the complex ions formed. N. A. Yajnik and R. L. Uberoy. Am Chem Soc J 46:802-8 Ap '24
Theory of membrane equilibria. F. G. Donnan. bibliog Chem R 1:73-90 Ap '24
Transference numbers and ionic complexity of hydrofluoric acid solutions. C. W. Davies and L. J: Hudleston. Chem Soc J 125:260-8 Ja '24
Transference numbers of hydrochloric acid in solutions of ethyl alcohol. H. S. Harned and M. H. Fleysher. Am Chem Soc J 47: 92-5 Ja '25
Transference numbers of sodium and potassium chlorides and of their mixtures. J. Dewey. Am Chem Soc J 47:1927-32 Jl '25
Transference numbers of solutions of mixed chlorides; discussion of papers by Schneider and Braley and by Braley and Hall. D. A. MacInnes. Am Chem Soc J 47:1922-7 Jl '25
Vibration of the CO_3-ion. S. Chapman and A. E. Ludlam. Philos Mag 6th ser 50:822-4 O '25

See also Dissociation; Electrochemistry; Electrolysis; Electrons; Hydrogen ion concentration; Ionization, Electrolytic; Ionization, Gaseous; Solution (chemistry)

IOWA
Sales possibilities in Iowa. il Sales Management 7:1665-7 O '24

See also Gasoline industry—Iowa; Water supply—Iowa

IOWA. University

Chemistry building
New productive unit. il plans Ind & Eng Chem 16:404-5 Ap '24

IPECAC
Azo dyes from alkaloids of ipecac root and their identification by means of the spectroscope. S. Palkin and H. Wales. Am Chem Soc J 47:2005-10 Jl '25

IRAQ
John Bull in the Garden of Eden. G: Cary. il Nation's Business 12:44-6 S '24

See also Electric supply—Iraq; Petroleum—Iraq; Petroleum industry and trade—Iraq

IRELAND

See also Banks and banking—Ireland; Coal mines and mining—Ireland; Electric industries—Ireland; Engineering—Ireland; Finance—Ireland; Hydroelectric plants—Ireland; Tariff—Ireland; Water power—Ireland

Commerce
Slump in trade of Irish Free State. Comm & Fin Chr 121:2108 O 31 '25

IRIDESCENCE. See Color

IRIDIUM
Consumption of the platinum metals. J. L: Howe. Eng & Min J 118:13-15 Jl 5 '24
Investigations on the platinum metals; the determination of iridium in platinum alloys by the method of fusion with lead. R. Gilchrist. U S Bur Stand Sci Pa 483:325-45 '24; Same cond. Am Chem Soc J 45:2820-8 D '23

IRON
Action of iron on copper. F. Siebe. Engineer 140:sup127-8 Ag 28 '25
Action of light on the ferrous ferric iodine iodide equilibrium. E. K. Rideal and E: G. Williams. diag Chem Soc J 127:258-69 Ja '25
Action of turpentine on iron. S. I. Levy and R. Defries. Soc Chem Ind J 42:472 D 7 '23
Allotropy of iron. Engineer 140:sup113 Ag 28 '25
Anhysteretic magnetostrictive effects in iron, nickel and cobalt. P. McCorkle. Phys R 25:541-9 Ap '25

IRON—*Continued*
Anhysteretic qualities of iron and nickel and the energy change at the critical temperature. J. R. Ashworth. Philos Mag 6th ser 47:848-59 My '24
Atomic heat capacities of iron and nickel at low temperatures. W. H. Rodebush and J: C. Michalek. diag Am Chem Soc J 47:2117-21 Ag '25
Cellulose and colloidal iron. H. S. Bolton and C: Dorée. Soc Dyers & Col J 40:292-3 S '24
Cementation of iron by silicon. R. T. Haslam and L. E. Carlsmith. il diags Ind & Eng Chem 16:1110-13 N '24
Characteristics of iron in high frequency rotating magnetic fields. L. Tonks. Phys R 23:221-38 F '24
Corrosion of iron. W. R. Whitney. il Ind & Eng Chem 17:385-9 Ap '25
Corrosion of iron in absence of oxygen. J. W. Shipley, I. R. McHaffie and N. D. Clare. Ind & Eng Chem 17:381-5 Ap '25; Abstract. Power 61:734 My 12 '25
Critical potentials in secondary electron emission from iron, nickel, and molybdenum. R. L. Petry. diag Phys R 26:346-59 S '25
Economics of iron and steel. H. J. Skelton. 2d ed., enl. 679p Stevens & sons, ltd.; H. J. Skelton co., ltd., London '24
Effect of a magnetic field on the potential of hydrogen occluded in iron. T. W. Richards and W: T. Richards. diag Am Chem Soc J 46:89-104 Ja '24
Effect of the addition of some alkaloids on the rate of solution of iron in dilute hydrochloric acid. M. B. Rane and M. Prasad. diag J Phys Chem 29:249-55 Mr '25
Einfluss der temperatur und der chemischen zusammensetzung auf die viskosität des eisens. P. Oberhoffer and A. Wimmer. diag Stahl & Eisen 45:969-77; Discussion. 977-9 Je 18 '25
Examination of iron from Konarak. J. N. Friend and W. E. Thorneycroft. Iron & Steel Inst J 110:313-15, pl 13 no 2 '24
First use of metals; iron, lead, and zinc. T. A. Rickard. Eng & Min J 117:759-62 My 10 '24
Fuel required to heat iron. A. D. Williams. Iron Age 113:162 Ja 10 '24
Influence of gases at high temperatures upon iron, with special reference to the formation of blowholes. A. G. Lobley and C. L. Betts. diag Iron & Steel Inst J 111:215-24, pl 28-30 no 1 '25; Same. Engineering 119: 591-2 My 8 '25; Abstract. Engineer 139:540-1 My 15 '25; Discussion Iron & Steel Inst J 111:225-30 no 1 '25; Engineering 119:598 My 15 '25
Influence of iron on copper. F. Johnson. Foundry 51:898-903 N 15 '23
Influence of strain and of heat on the hardness of iron and steel. A. Sauveur and D. C. Lee. Engineering 120:433 O 2 '25
Introduction of carbonaceous matter in electrodeposited iron and nickel. P. K. Frölich. Am Electrochem Soc Trans v 46 (preprint 12):171-87 O '24
Iron in the dye house and bleachery. W. Sanderson. Textile Col 47:302-3 My '25
Die mechanischen eigenschaften von sonderroheisen. A. Wagner. Stahl & Eisen 45: 1815-16 O 29 '25
Rekristallisation nach warmverformung. H. Hanemann and F. Lucke. Stahl & Eisen 45: 1117-22 Jl 9 '25
Soft X-rays from iron. C: H. Thomas. diag Phys R 25:322-32 Mr '25
Spectral series in the soft X-ray region. G. K. Rollefson. diag Phys R 23:35-45 Ja '24
Das technische eisen, konstitution und eigenschaften. P. Oberhoffer. 2d ed., rev. and enl. 598p J. Springer, Berlin '25
Temperkohle und eisengraphit als chemisch gleichartige kohlenstofformen. A. Lissner and R. Horny. Stahl & Eisen 45:1297-1301 Jl 30 '25
Ueber das verhalten des eisens nach bleibenden formänderungen und starken temperaturschwankungen. R. Baumann. Stahl & Eisen 44:471-3 Ap 24 '24
Use of iron in transformers. O. Lodge. diags Radio N 6:325+ S '24
Use of iron or nickel crucibles for alkali determinations. A. W. Epperson and R. B. Rudy. Ind & Eng Chem 17:35 Ja '25
What is iron, what is steel? A. Sauveur. Chem & Met Eng 30:782-3 My 19 '24; Same. Génie Civil 87:136 Ag 8 '25; Same. Iron Age 116:604+ S 3 '25; Same. Sanitary & Heat Eng 104:224-5 O 2 '25
What is steel?—another answer. A. Sauveur. il diags Iron Age 113:581-3 F 21 '24
Zur allotropie des eisens. F. Wever. Stahl & Eisen 45:1208-10 Jl 9 '25

See also Annealing; Blast furnaces; Cast iron; Charcoal iron; Chilled iron; Corrosion and anti-corrosives; Foundry practice; Galvanizing; Iron, Stainless; Iron alloys; Iron founding; Iron industry and trade; Iron metallurgy; Iron mines and mining; Iron ores; Iron works; Magnetism; Magnetostriction; Meteorites; Pickling (metals); Pig iron; Rolling (metal work); Sheet iron; Steel; Wrought iron

Analysis

Beitrag zur kenntnis des zustandsdiagramms eisenoxydul und kieselsäure. O. v. Keil and A. Dammann. diag Stahl & Eisen 45: 890 Je 4 '25; Same (Iron oxide and silica). Engineer 140:sup121 Ag 28 '25
Die bestimmung des kohlenstoffs in roheisen, stahl und ferrolegierungen durch verbrennen im sauerstoffstrom. H. J. van Royen. diag Stahl & Eisen 44:393-7 Ap 10 '24
Die bestimmung des sauerstoffs im eisen. R. Scherer, P. Oberhoffer and others. il diags Stahl & Eisen 45:1555-63 S 10 '25
Copper as reducing agent in iron determinations. J. M. Hendel. Ind & Eng Chem 16:951 S '24
Determination of ferrous iron in materials containing metallic iron. C. E. Sims and B. M. Larsen. Ind & Eng Chem 17:86-8 Ja '25
Determine sulphur content in iron. L. J. Wise and L. H. Rudesill. Foundry 52:347-8 My 1 '24
Diphenylamine as indicator in the titration of iron with dichromate solution. J. Knop. Am Chem Soc J 46:263-9 F '24
Diphenylamine indicator in the volumetric determination of iron. W. W. Scott. Am Chem Soc J 46:1396-8 Je '24
Electrometric titrations, with special reference to the use of titanous chloride for ore analysis. A. McMillan and W. C. Ferguson. Soc Chem Ind J 44:141-2 Mr 27 '25
Estimation of iron by Knecht and Hibbert's method; abstract. L. Brandt. Soc Dyers & Col J 40:241 Jl '24
Estimation of minute percentages of iron in drugs and chemicals. Chem Age (Lond) 10: 383-4 Ap 12 '24
Estimation of oxygen in pure iron. T. E. Rooney. il diag Iron & Steel Inst J 110:122-8; Discussion. 129-43 no 2 '24
Neues massanalytisches verfahren zur schwefelbestimmung in eisen und stahl. H. Pinsl. Stahl & Eisen 44:72-4 Ja 17 '24
New qualitative tests for copper, iron and cobalt. M. L. Nichols and S. R. Cooper. Am Chem Soc J 47:1268-70 My '25
Permanent standards as a possible source of error in iron determinations. E: S. Hopkins. Ind & Eng Chem 17:832 Ag '25
Quantitative determination of iron existing as ferrosilicon in artificial corundum. R. A. Heindl. Am Cer Soc J 8:671-6 O '25
Quelques remarques au sujet des analyses de fonte. G. Batta. il Chimie & Ind 13:195-8 F '25
Séparation du nickel et du fer d'avec le chrome par électrolyse. E. Rousseau. Chimie & Ind 13:199-201 F '25
Simplification of the separation of zinc from iron and aluminium. E. G. R. Ardagh and G. R. Bongard. bibliog Ind & Eng Chem 16: 297-9 Mr '24
Ueber gas- und sauerstoffbestimmungen im eisen, insbesondere gusseisen. P. Oberhoffer and others. il Stahl & Eisen 44:113-16 Ja 31 '24

IRON—Analysis—*Continued*
Use of amalgamated zinc in the evolution method for the estimation of sulphur in iron and steel. T. Ashida. diag Chem Soc J 125:665-8 Mr '24

See also Iron ores—Analysis; Steel—Analysis

Bibliography

Notes on the progress of the home and foreign iron and steel industries. Published in semi-annual numbers of the Journal of the iron and steel institute
Pickling of iron and steel; a bibliography. V: S. Polansky. Blast F & Steel Pl 12:326-8, 368-71, 431-4 Jl-S '24
Review of iron and steel literature for 1923. E. H. McClelland. Blast F & Steel Pl 12: 13-17 Ja '24
Review of iron and steel literature for 1924. E. H. McClelland. Blast F & Steel Pl 13:9-11 Ja '25

Corrosion

See Corrosion and anti-corrosives

Metallography

Die beeinflussung der schweissbarkeit des flusseisens durch zusätze von elementen, die mit dem eisen mischkristalle bilden. P. Hahn. il Stahl & Eisen 45:7-9 Ja 1 '25
Bemerkenswerte erscheinungen über die graphitbildung in grau erstarrten roheisensorten. E. Piwowarsky. Stahl & Eisen 45: 457-8, pl 13 Mr 26 '25
Beobachtungen über gefügeänderungen beim erhitzen und abkühlen des eisens mit hilfe von heissätzungen. P. Oberhoffer and A. Heger. il Stahl & Eisen 43:1322-3 O 18 '23
Dilatation of cast irons during repeated heating and cooling. J. H. Andrew and R. Higgins. il Engineering 120:399-402 S 25 '25
Effect of cold-work upon the density of crystals of α-iron. H. O'Neill. bibliog diags Iron & Steel Inst J 109:93-108, pl 5; Discussion. 109-28 no 1 '24; Abstracts. Engineer 137:536-7 My 16 '24; Engineering 117:631-2 My 16 '24
Effect of grain-size on the extension at the yield point in Armco iron. R. Arrowsmith. Iron & Steel Inst J 110:317-19 no 2 '24
Examination of defective ferrous materials in an engineering works. T. H: Turner. il Engineering 116:698-700 N 30 '23
Das gefüge hochwertigen grauen gusseisens. R. Kühnel and E. Nesemann. il Stahl & Eisen 44:1042-4 Ag 28 '24
Das graphiteutektikum im gusseisen. E. Schüz. Stahl & Eisen 45:144-7, pl 4 Ja 29 '25
Heat treating—its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. il Iron Tr R 74:1434-7 My 29 '24
High-temperature growth of special cast irons. J. H. Andrew and H. Hyman. Iron & Steel Inst J 109:451-60, pl 27-8; Discussion. 461-3 no 1 '24
Orientation of crystals in metal test-pieces subjected to small strains followed by heat-treatment. C. F. Elam. Philos Mag 6th ser 50:517-20 S '25; Abstract. Engineering 120:368; Discussion. 363 S 18 '25; Discussion. Engineer 140:291 S 18 '25
Perlitguss. K: Emmel. il Stahl & Eisen 44: 330-3 Mr 27 '24; Discussion. 44:753-8 Je 26 '24
Plastic deformation of α- and γ-iron. F. C. Thompson and W. E. W. Millington. bibliog diags Iron & Steel Inst J 109:67-92, pl 3-4; Discussion. 109-28 no 1 '24; Abstracts. Engineer 137:536, 537 My 16 '24; Engineering 117:631, 632 My 16 '24
Plastic deformation of iron and the formation of Neumann lines. W. Rosenhain and J. McMinn. Engineer 140:sup114-15 Ag 28 '25
Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. bibliog diags Mech Eng 47:479-84, 559-65 Je-Jl '25
Production of large crystals by annealing strained iron. C. A. Edwards and L. B. Pfeil. bibliog Iron & Steel Inst J 109:129-47, pl 6-11 no 1 '24; Same cond. Engineering 117:651-4, 687-8 My 16-23 '24; Discussion. Iron & Steel Inst J 109:148-58 no 1 '24; Engineer 137:537 My 16 '24
Structural segregation in gray iron. J. W. Bolton. il Iron Age 114:685-9 S 18 '24
Structures of gray iron and semi-steel. J. W. Bolton. il Iron Age 113:47-9, 155-7 Ja 3-10 '24
Study structure of gray iron. J. W. Bolton. il diags Foundry 52:628-34 Ag 15 '24; Same. Iron Tr R 75:544-50 Ag 28 '24
Ueber den einfluss der temperatur auf die graphitbildung im roh- und gusseisen. E. Piwowarsky. Stahl & Eisen 45:1455-61 Ag 27 '25
Ueber ein verfahren zur entwicklung der Hartmannschen linien (kraftwirkungslinien). P. Oberhoffer and M. Toussaint. il Stahl & Eisen 44:1330-2 O 23 '24
Wege und ziele veredelung von gusseisen. P. Goerens. diags Stahl & Eisen 45:137-40, pl 2 Ja 29 '25

Oxygen content

Ferrous alloys research. W. Rosenhain and others. bibliog Iron & Steel Inst J 110:85-128 pl 5-8; Discussion. 129-43 no 2 '24
Sauerstoff im eisen. P. Oberhoffer. Stahl & Eisen 45:1341-8, 1379-84, pl 7 Ag 6-13 '25

Prices

Domestic iron and steel prices in 1923. Iron Tr R 74:88 Ja 3 '24
Domestic iron and steel prices in 1924. Iron Tr R 76:80 Ja 1 '25
European iron and steel prices in 1923. Iron Tr R 74:112 Ja 3 '24
European iron and steel export prices in 1924. Iron Tr R 76:106 Ja 1 '25
Iron and steel prices for twenty-one years, 1903-1923. Iron Age 113:81-8 Ja 3 '24
Iron and steel prices for twenty-one years, 1904-1924. Iron Age 115:71-8 Ja 1 '25
Monthly fluctuations of iron and steel prices for a period of twenty-nine years; chart. Iron Tr R 74:70a Ja 3 '24
Monthly fluctuations of iron and steel prices for period of thirty years; chart. Iron Tr R 76:96a Ja 1 '25
Die preisbewegung führender deutscher eisenerzeugnisse seit dem jahre 1900. J. W. Reichert. Stahl & Eisen 45:1242-9 Jl 16 '25
Prices of iron and steel and other products. S. G. Koon. charts Iron Age 113:1870-1 Je 26 '24
Die roheisenpreise im in- und auslande seit 1900. J. W. Reichert. Stahl & Eisen 45: 369-72 Mr 12 '25
Some price-determining factors in the iron industry. O. W. Blackett. R Econ Statis 7: 198-207 Jl '25
Die stabeisenpreise im in- und auslande seit 1900. J. W. Reichert. Stahl & Eisen 45:716-21 My 7 '25
Trend of iron and steel markets. L: H. Haney. Iron Age 115:218-20, 1425-6, 1788+; 116:154+ Ja 15, My 14, Je 18, Jl 16 '25

See also Iron ores—Prices

Red-shortness

Causes of red-shortness in iron. Automotive Ind 51:919 N 27 '24; Same. Iron Age 114: 1550 D 11 '24; Same. Iron Tr R 75:1643-4 D 18 '24
Influence of sulfur, oxygen, copper and manganese on the red-shortness of iron. J. R. Cain. il Am Electrochem Soc Trans v 46 (preprint 16):233-45 O '24; Same. U S Bur Stand Tech Pa 261:327-35 '24

Specifications

Engineers and the interpretation of chemical specifications for iron and steel in relation to analytical accuracy; abstracts. C. H. Ridsdale. Soc Chem Ind J (Chem & Ind) 43: 276-7 Mr 14 '24; Chem Age (Lond) 10:265 Mr 15 '24; Engineer 137:312 Mr 21 '24; Engineering 117:432 Ap 4 '24

IRON—Specifications—*Continued*
Iron and steel scrap specifications for use by blast furnaces, steel plants and foundries. Blast F & Steel Pl 13:115-19 Mr '25; Same abr. Iron Age 115:137 Ja 8 '25
Iron and steel specifications. U S Bur Stand Circ 101:77-101 '24
Mill scrap specifications submitted. Iron Age 115:1626-7 Je 4 '25
Scrap specifications; probable effect of proposed classifications of purchasing agents' association. Iron Age 115:1743 Je 11 '25

Standards

Die deutschen werkstoffnormen für stahl und eisen. E. H. Schulz. Zeit Ver Deutsch Ing 69:1341-6 O 24 '25
Werkstoffnormen stahl und eisen. Stahl & Eisen 44:1519-22 N 27 '24

Sulfur and phosphorus content

Determine sulphur content in iron. L. J. Wise and L. H. Rudesill. Foundry 52:347-8 My 1 '24
Entschwefelungs-, entgasungs- und desoxydationsverfahren für hochwertiges gusseisen. J. Mehrtens. il diags Stahl & Eisen 45:449-57 Mr 26 '25
Ueber entschwefelung und reduktion im kuppelofen. A. Wagner. Stahl & Eisen 45:1205-7 Jl 9 '25
Untersuchungen über die entschwefelung des spateisensteins beim rösten. A. Weyel. Stahl & Eisen 45:1273-4 Jl 23 '25

Testing

Available data on the properties of irons and steels at various temperatures. H. J. French and W. A. Tucker. Am Soc T M Pro 24 pt 2:56-87 '24
Coke and charcoal irons differ. W. E. Jominy. Iron Tr R 75:1023-5+ O 16 '24
Comparative cold-rolling tests of open-hearth steel strip (deep-drawing stock) and electrolytic-iron strip. J: R. Freeman, jr. and R. D. France. U S Bur Stand Tech Pa 288:297-313 '25
Einfluss der vorbehandlung auf die kerbzähigkeit von kettenwerkstoff in der kälte. A. Pomp. Stahl & Eisen 45:1180-4 Jl 9 '25
Festigkeitseigenschaften von eisen und stahl in der kälte und wärme. W. Oertel. il diags Stahl & Eisen 43:1395-1404 [bibliog. p. 1403-4] N 8 '23
Zur frage der blausprödigkeit. E. Maurer and R. Mailänder. diags Stahl & Eisen 45: 409-23 Mr 19 '25

See also Cast iron—Testing; Iron, Galvanized—Testing; Magnetic testing

Transportation

Iron and steel rates. Iron Age 115:1058 Ap 9 '25
Possible change in rate structure. Iron Age 115:1453 My 14 '25

IRON, Cast. See Cast iron

IRON, Galvanized
Action of calcium chloride brines on galvanized coatings. A. C. White. il Ind & Eng Chem 17:503-5 My '25; Abstract. Refrig Eng 12:10-11 Jl '25
Contamination of beverages and other food with zinc. J. W. Sale and C. H. Badger. Ind & Eng Chem 16:164 F '24

Testing

Methods of testing galvanised iron. S. Cowper-Coles. Engineering 118:825 D 19 '24

IRON, Sponge
Process for the production of sponge iron. C. E. Williams, E: P. Barrett and B. M. Larsen. U S Bur Mines Rep of Invest 2578:1-5 F '24 (typew); Abstracts. Engineering 119:74 Ja 16 '25; Stahl & Eisen 45:1531-5 S 3 '25
Production of sponge iron. C. E. Williams, E: P. Barrett and B. M. Larsen. diags U S Bur Mines Rep of Invest 2656:1-14 N '24; Excerpts. Iron Tr R 76:344-7 Ja 29 '25

IRON, Stainless
Corrosion-resistant alloys—past, present and future—with suggestions as to future trend. P. A. E. Armstrong. Am Soc T M Pro 24 pt 2:193-207 '24
Properties of stainless iron. Brass W 21: 325 S '25
Rustless cast iron. Brass W 20:360 O '24
Rustless iron and steel. A. C. Blackall. Iron Age 113:1761 Je 12 '24
Stainless steel with particular reference to its milder varieties. J: H. G. Monypenny. Iron Age 113:649-50 F 28 '24
Victory over rust. Sci Am 131:25 Jl '24

Bibliography

Stainless steel and stainless iron. V: S. Polansky, comp. 21p Carnegie lib., Pittsburgh '23

IRON, Wrought. See Wrought iron

IRON alloys
Beitrag zur analyse des schwindungsvorganges von weissem und grauem gusseisen. P: Bardenheuer and C. Ebbefeld. Stahl & Eisen 45:1022-7 Je 25 '25
Calculating ferroalloy additions. H. L. Campbell. chart Foundry 53:391-2 My 15 '25; Discussion. J. B. George. 53:694-6 S 1 '25
Cathodic behaviour of nickel-iron alloys. S. Glasstone. Elec R (Lond) 93:955 D 21 '23
Ferroalloy developments in the past year. R. J. Anderson. Iron Age 113:94-7 Ja 3 '24
Ferroalloy industry in 1924. R. J. Anderson and L. D. Anderson. Iron Age 115:65-8 Ja 1 '25
Ferro-alloys. F: M. Becket. Ind & Eng Chem 16:197-205 F '24; Excerpts. Chem & Met Eng 30:186-8, 316-18, 391-3 F 4, 25, Mr 10 '24
Ferrous alloys research. W. Rosenhain and others. bibliog il diags Iron & Steel Inst J 110:85-128, pl 5-8; Discussion. 129-43 no 2 '24; Abstracts. Engineer 138:316-17 S 19 '24; Engineering 118:366-7 S 12 '24
Importance of dissociation of chemical compounds in steel making; use of carbonless alloys. J. K. Smith. Chem & Met Eng 30:49-50 Ja 14 '24
Magnetic and electrical properties of the ternary alloys FE-SI-C. T. D. Yensen. Am Inst E E J 43:558-67 Je '24; Discussion. 43: 1065-8 N '24
Magnetic properties of the fifty per cent. iron-nickel alloy. T. D. Yensen. J Fr Inst 199: 333-42 Mr '25
Some engineering applications of high-chromium-iron alloys. C. E. MacQuigg. il Am Soc T M Pro 24 pt 2:373-82 '24; Abstract. Engineer 139:sup69 My 29 '25

See also Duriron; Ferrochromium; Ferromanganese; Ferrophosphorus; Ferrosilicon; Ferrotungsten; Ferrovanadium; Iron, Stainless; Iron-carbon alloys; Iron-silicon alloys; Steel

IRON and steel institute
Annual meeting, London, May 8-9. Engineer 137:536-7, 565-7 My 16-23 '24; Engineering 117:616-17, 631-3, 662-5 My 9-23 '24; Iron Age 113:1491-3 My 22 '24; Iron Tr R 74:1347-8 My 22 '24
Annual general meeting, 56th, London, May 7-8. Engineering 119:580-1, 596-600, 633-5 My 8-22 '25; Engineer 139:538-41, 566-7 My 15-22 '25; Iron Age 15:1489-94, 1569+ My 21-28 '25; Iron Tr R 76:1324+ My 21 '25
Autumn meeting, London, Sept. 4-5. Elec R (Lond) 95:414-15 S 12 '24; Engineer 138: 298-9, 316-17 S 12-19 '24; Engineering 118: 365-7 S 12 '24; Iron Tr R 75:747-8 S 18 '24
Autumn meeting, Birmingham, Sept. 9-11. Engineering 120:333-4, 361-4 S 11-18 '25; Engineer 140:262-3, 290-2 S 11-18 '25; Iron Tr R 77:778+ S 24 '25

IRON bacteria
Bacteria that dissolves paper. W: H. Gesell. Paper 33:5-6 Mr 27 '24

IRON bacteria—*Continued*
Investigation to ascertain the responsibility of iron-bacteria and other organisms for the formation of iron-incrustations in water-pipes. D: Ellis. Engineering 120: 371-2 S 18 '25; Same. Can Eng 49:555-6 N 17 '25; Same abr. Eng & Contr (W W) 65: 50-1 Ja 13 '26

IRON borings
Makes low cost iron castings from iron borings. H. C. BeMent. Foundry 53:645-6 Ag 15 '25; Same. Iron Tr R 77:626-7 S 10 '25

IRON carbon alloys
Die darstellung von ternären eisen-kohlenstoff-legierungen. A. von Vegesack. diags Stahl & Eisen 45:458-61 Mr 26 '25
Preparation and properties of pure iron alloys. J. F. T. Berliner. diags U S Bur Stand Sci Pa 484:347-56 '24
Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. il Mech Eng 47:339-45 My '25

See also Steel

IRON-carbon-chromium alloys
Alloys in the ternary system iron-chromium-carbon. C: R. Austin. diags Iron & Steel Inst J 108:235-62, pl 14-18 no 2 '23
Ueber das dreistoff-schaubild der eisen-chrom-kohlenstoff-legierungen. K. Fischbeck. diags Stahl & Eisen 44:715-19 Je 19 '24

IRON carbonate. See Siderite

IRON carbonyls
Ueber die entstehungsbedingungen und die verwendungsmöglichkeit des eisenkarbonyls. E. Diepschlag. Stahl & Eisen 44:1250 O 9 '24

IRON compounds
Iron and chromium on cotton or wool. W. B. Nelson. Am Dyestuff Rep 14:164-8 Mr 9 '25
New methods of splitting pyrimidines; the decomposition of pyrimidines by means of ferrous salts. M. H. Pfaltz and O. Baudisch. Am Chem Soc J 45:2972-80 D '23
Oxidation of hydrazine; the interaction of hydrazine and ferric salt in acid solution. E. J. Cuy. Am Chem Soc J 46:1810-14 Ag '24
Oxidation of uric acid with ferrous salts. M. H. Pfaltz. Am Chem Soc J 45:2980-4 D '23
Oxidation potentials of ferrous and ferric salts in concentrated hydrochloric acid and phosphoric acid. S. R. Carter and F. H. Clews. Chem Soc J 125:1880-8 S '24
Promoter action in homogeneous catalysis; mechanism of the promotion by copper salts in the catalytic decomposition of hydrogen peroxide by ferric salts. A. C. Robertson. Am Chem Soc J 47:1299-1314 My '25
Reaction between ferrous salts and cuprous salts. R. C. Wells. Am J Sci 5th ser 8: 428-33 N '24
Reversible colloid of iron. A. F. G. Cadenhead and W. H. Vining. Can Chem & Met 8:65 Mr '24

See also Iron oxides

IRON founding
Bad castings and furnace scrap. H. H. Hopkins. Iron Age 116:1252-3 N 5 '25; Discussion. 116:1399, 1545 N 19, D 3 '25
Calculating cupola mixtures. B. Szöke. diags Iron Age 116:205-7+ Jl 23 '25
Calculating ferroalloy additions. H. L. Campbell. chart Foundry 53:391-2 My 15 '25; Discussion. J. B. George. 53:694-6 S 1 '25
Canadian Westinghouse company produces large electrical castings. P. Dwyer. il Foundry 53:276-80 Ap 1 '25
Continuous molding and casting in plant of Warren foundry co. at Warren, Ohio. il Iron Age 115:187-91 Ja 15 '25
Contrast old and new melting practice. R. E. Masters. Foundry 53:664 Ag 15 '25
Correlates iron and steel making practice. J. E. Fletcher. Iron Tr R 77:1150-2 N 5 '25
Describes cupola reactions. J. Coll. Foundry 51:961-3 D 1 '23
Economical cupola melting. H. Van Aarst. diags Foundry 52:514-15 Jl 1 '24
Examines mass effect on iron. O. Smalley. diags Iron Tr R 73:1724-7 D 27 '23
Falkirk uses new methods; how bath tubs, telegraph-pole bases and other castings are being made. H. C. Estep. il diag Foundry 52:331-9+ My 1 '24
Farms depend on castings shop; the iron foundry of Massey-Harris co. P. Dwyer. il Foundry 53:193-5 Mr 1 '25
Fluorspar has part in cupola melting. B: Osann. Foundry 51:980 D 15 '23
Foundry standards advanced in 1923. H. E. Diller. il Iron Tr R 74:21-2 Ja 3 '24
Foundrymen improve casting practice. D. M. Avey. il Iron Tr R 76:25-6 Ja 1 '25
French and American iron foundry methods compared. W: Ruddy. Foundry 53:97-9 F 1 '25; Discussion. 53:975 D 1 '25
From blast furnace to malleable casting; malleable foundry at Cadillac. G. L. Lacher. il plan Iron Age 113:921-6 Mr 27 '24
Fuels used in melting malleable iron. G: A. Drysdale. Foundry 52:384 My 15 '24
German foundry developments. S. G. Werner. Foundry 51:959-60 D 1 '23
Gray iron problems discussed at A.F.A. Syracuse meeting. Iron Age 116:978-9, 1037-40 O 8-15 '25; Foundry 53:860-2 N 1 '25
Hauptversammlung des Vereines Deutscher giessereifachleute. Zeit Ver Deutsch Ing 69:1094-5 Ag 15 '25
Iron is poured through bottom nozzle. J. Thomas. Foundry 53:139 F 15 '25
Iron supply governs location; malleable foundry in Michigan. il plan Foundry 52:389-95 My 15 '24
Low phosphorus metal for cylinder castings. A. Harley. il Foundry 53:311-13 Ap 15 '25
Make wheels and brakeshoes. P. Dwyer. il diag Foundry 52:707-12+ S 15 '24
Makes castings continuously in permanent molds; impregnating cast iron molds with zinc. il Foundry 53:387-90 My 15 '25; Same. Iron Tr R 76:1325-8 My 21 '25
Makes castings for waterworks; Ludlow valve co., Troy, N.Y. il diag Foundry 53:350-5 My 1 '25
Making iron channel frames. H. R. Simonds. il Foundry 51:933-7 D 1 '23
Making locomotive castings. H. E. Diller. il Foundry 52:88-95 F 1 '24
Making motorcycle cylinders. J. Leonard. diags Foundry 52:589-90 Ag 1 '24
Malleable casting problems. Iron Age 114: 1055-6 O 23 '24
Metallurgy of iron dryer rolls. J. W. Bolton. il diags Iron Age 116:800-2 S 24 '25
Mixtures closely controlled; a test block cast with two different thicknesses and afterward sawed through the center longitudinally indicates the segregation of iron under varying conditions. il Foundry 52:26-8 Ja 1 '24
Molding special pipe shapes. P. Dwyer. il Foundry 52:373-8 My 15 '24
Molds large iron gear cases. P. Dwyer. il Foundry 52:623-7+ Ag 15 '24
New method of making gray iron castings. il Engineer 139:sup9-11 Ja 30 '25
Niedriggekohltes gusseisen als kuppelofenerzeugnis. K: Emmel. il Stahl & Eisen 45: 1466-70, pl 9 Ag 27 '25
Observes melting in cupola. J: Grennan. Foundry 51:908-10 N 15 '23
Permanent mold casting methods cut production expense. D. H. Meloche. il Automotive Ind 50:711-14 Mr 27 '24
Principles in cast iron flask design. H. Cohen. diags Iron Age 113:1137-40 Ap 17 '24
Progress in gray iron industry; abstracts. E. Touceda. Foundry 52:24-5 Ja 1 '24; Iron Age 112:1558 D 6 '23
Pumps made in quantities. P. Dwyer. il diag plan Foundry 52:417-23+ Je 1 '24
Records show cupola control. S. J. Felton. Foundry 52:255-7 Ap 1 '24
Reducing costs on soil pipe. R. E. Nelles. il Foundry 53:100-2 F 1 '25
Saving the gray iron foundry. R: Moldenke. Iron Age 116:1165-7 O 29 '25
Side-blast cupola in operation at Chicago. S. G. Werner. il diags Iron Age 112:1377-9 N 22 '23

IRON founding—*Continued*
Simplifying cupola mixtures. G: A. Drysdale. Foundry 52:433-4 Je 1 '24
States carbon control theory. A. C. Porter. Foundry 52:194-5 Mr 1 '24
Struggle of sandless pig and byproduct coke for a place in the foundry. W. R. C. Alley. Brass W 21:273-4 Ag '25
Sulfur as a hardening agent. R. H. Palmer. il Foundry 52:894-6 N 15 '24
Testing device is easily made. R. E. Masters. Foundry 52:31 Ja 1 '24
Twin cupolas melt wheel iron. P. Dwyer. il diags plan Foundry 52:287-93+ Ap 15 '24
Upward pressure of cores and copes. H. Cohen. Iron Age 114:819-20 O 2 '24
Vergleichende untersuchungen an mischverfahren. O. Fahr. il Stahl & Eisen 43:1589-90 D 27 '23
Who is responsible for porous castings? J. A. Murphy. diags Foundry 53:371-3 My 1 '25

See also Annealing; Cast iron; Castings—Cleaning; Chilled iron; Cupola furnaces; Foundry practice; Furnaces, Iron founding; Molding machines; Molds, Cast iron; Pattern making; Pig iron; Semi-steel

Cost

Malleable furnace fired with pulverized coal. W. Hathaway. il Foundry 53:824-8+ O 15 '25

IRON founding, Electric
Cast iron as produced in the electric furnace, and some of its problems. G: K. Elliott. Am Electrochem Soc Trans v 41 (preprint 9): 75-87 Ap '22; Same abr. Foundry 52:107-9 F 1 '24; Same abr. Chem & Met Eng 27:116-19 Jl 19 '22; Same cond. Iron Age 109:1225-6 My 4 '22; Discussion. Chem & Met Eng 27:292 Ag 16 '22
Cast iron from electric furnaces; discussion at A.F.A. meeting. Iron Age 114:1058-9 O 23 '24; Iron Tr R 75:1103-5 O 23 '24; Foundry 52:844-5 N 1 '24
Gray iron made in electric furnaces. Iron Age 114:914+ O 9 '24
Investigate electric gray iron. Foundry 52: 821-2 O 15 '24
Makes low cost iron castings from iron borings. H. C. BeMent. Foundry 53:645-6 Ag 15 '25; Same. Iron Tr R 77:626-7 S 10 '25
Melting 9 tons in 3-ton furnace. L. J. Barton. il Iron Tr R 74:1493-5 Je 5 '24; Same. Foundry 52:401-3 My 15 '24; Same cond. Iron Age 113:1724-6 Je 12 '24
Using the electric furnace. J. T. MacKenzie. Foundry 52:859-60 N 1 '24

See also Electric furnaces, Iron founding

Cost

Electric furnace iron cheap. L. J. Barton. Foundry 52:71-2 Ja 15 '24

IRON hydroxides
Further studies of water purification by filters charged with aluminum or ferric hydroxide. H. W. Clark. N E Water Works Assn J 38: 84-93 Mr '24; Same. Eng & Contr (W W) 61:567-71 Mr 12 '24
Solubility of ferrous hydroxide and its effect upon corrosion. W. G. Whitman, R. P. Russell and G. H. B. Davis. Am Chem Soc J 47: 70-9 Ja '25
Studies in adsorption; influence of ions carrying the same charge as the sol on the coagulation of sols of (i) prussian blue and of (ii) positive ferric hydroxide. S. Ghosh and N. R. Dhar. J Phys Chem 29:659-78 Je '25
Studies on adsorption. K. C. Sen, P. B. Ganguly and N. R. Dhar. J Phys Chem 28: 313-32 Ap '24
Versatility of ferrous hydroxide. P: Fireman. Ind & Eng Chem 17:603-4 Je '25

IRON in the body
Induced oxidation and the explanation of the internal use of iron salts and of fever. N. R. Dhar. J Phys Chem 28:943-7 S '24

IRON industry and trade
Der eisenbedarf der welt und Deutschlands. Zeit Ver Deutsch Ing 69:173-4 F 14 '25
Der eisenbedarf der welt und Deutschlands. J. W. Reichert. Stahl & Eisen 45:11-16 Ja 1 '25

See also Cast iron; Iron—Prices; Iron founding; Iron mines and mining; Iron ores; Iron works; Pig iron; Rolling mills; Scrap metal; Steel industry and trade; Stoves

Costs

Cost trends in manufacturing. L: H. Haney. Iron Age 115:138-40, 414-16, 778+, 1283-4+, 1347-8+, 1574+, 1716+ Ja 8, F 5, Mr 12, Ap 30, My 7, 28, Je 11 '25

Exhibitions

Bethlehem's products in museum. il Iron Tr R 76:222-3 Ja 15 '25

History

Early history of iron and steel making in Mahoning Valley. J. G. Butler, jr. il Iron Tr R 77:425-8+, 481-4 Ag 20-27 '25

Prices

See Iron—Prices; Iron ores—Prices

Statistics

Depression in the iron and steel trade. Economist 100:699-700 Ap 11 '25
Iron and steel production. Comm M 6:12-13 Mr '25; Same. Econ W n s 29:370-1 Mr 14 '25; Same. Blast F & Steel Pl 13:205-6 My '25
Iron and steel products. Survey of Cur Business 30:74-5 F '24 [continued quarterly]
Iron and steel production of small countries. Iron Age 115:983 Ap 2 '25
Iron and steel; sharp upturn in demand at end of 1924. B. E. V. Luty. Eng & Min J 119:143-4 Ja 17 '25
Less foundry iron being melted. L. H. Atkinson. Iron Age 115:1701-3 Je 11 '25
Monthly pig iron production, 1884-1902: an analysis of a problem in correlation. H. Working. Am Statis Assn J 19:381-6 S '24
Pig iron and steel output of the world. E. F. Cone. Iron Age 113:70-3 Ja 3 '24
Production of pig iron and crude steel in the United States in December and during 1924. Econ W n s 29:86-7 Ja 17 '25
Steel and iron trade. Moody's Inv Serv 16: 53-6 Ja 31 '24
World output nearly prewar. Iron Tr R 74: 68-9 Ja 3 '24
World tonnage is set for rise. Iron Tr R 76: 40-1 Ja 1 '25; Excerpt. Econ W n s 29:123-4 Ja 24 '25
World's pig iron and steel output. E. F. Cone. Iron Age 115:331-3 Ja 29 '25

See also Foundries—Statistics

Austria

Austrian iron and steel industry and trade. E. M. Zwickel. U S Bur For & Dom Com Trade Information Bul 265:1-19 '24
Die entwicklung der österreichisch-Alpinen montangesellschaft. Zeit Ver Deutsch Ing 68:245-6 Mr 8 '24

Belgium

Belgian iron and steel in 1924. Iron Age 115: 58-9 Ja 1 '25
Belgian steel industry gains during 1924. Iron Tr R 76:113 Ja 1 '25

Canada

Canadian iron and steel industry and trade. G. E. Phoebus. U S Bur For & Dom Com Trade Information Bul 285:1-12 '24
Iron and steel industry in Canada. C: S. Cameron. Engineer 138:112-13, 128-9 Jl 25-Ag 1 '24
Manufacture of iron and steel in Canada. Can Eng 49:296 S 8 '25
Production of pig iron and crude steel in Canada in 1923. Econ W n s 27:196 F 9 '24
Tariff reductions have disastrous effects on Canadian industries. F. Sanderson. Iron Age 115:347-9 Ja 29 '25

IRON industry and trade—*Continued*

China

China—market for waste products. G: S. Herrick. map Iron Age 116:67-9 Jl 9 '25

China's ore reserves prove small; Far East's three billion tons: modern blast furnaces coming into use. O. R. Kuhn. Iron Tr R 76:218 Ja 15 '25

Europe

Economic and financial progress in Europe, 1923-24. J. S. Davis. R Econ Statis 6:215-17 Jl '24

European industry hopes for Ruhr peace. Iron Age 113:98, 101-6 Ja 3 '24

France

France's fortunes on upgrade. L. W. Moore. Iron Tr R 76:111-12 Ja 1 '25

France's problems financial. V. Delport. Iron Tr R 76:1449-50 Je 4 '25

French iron and steel industry. C. L. Jones. U S Bur For & Dom Com Trade Information Bul 367:1-42 [bibliog. p. 42] '25

French iron and steel industry in 1924. Iron Age 115:57-8 Ja 1 '25

French iron and steel production during the first half of 1924. Iron Age 114:1555 D 11 '24

French producers are confident. V. Delport. Iron Tr R 74:117-18 Ja 3 '24

Production of pig iron and crude steel in France in 1924. Econ W n s 29:304 F 28 '25

Ruhr iron and steel industry under the Dawes plan. C. K. Leith. Eng & Min J 119:597-8 Ap 11 '25

Germany

Aus dem tätigkeitsbereich der nordwestlichen gruppe des Vereins deutscher eisen- und stahl-industrieller. Stahl & Eisen 45:873-8, 940-4 Je 4-11 '25

Aus der geschichte der Vereins deutscher eisen- und stahlindustrieller. C. Klein. Stahl & Eisen 44:1309-24 O 23 '24

Betrachtungen zur aussenhandelsbilanz von eisen und stahl. O. Dorth. Stahl & Eisen 45: 1087-9 Jl 2 '25

Deutschlands eisenwirtschaft und der Verein deutscher eisen- und stahlindustrieller. J. W. Reichert. Stahl & Eisen 44:1356-63 O 30 '24

L'évolution de l'industrie sidérurgique allemande des territoires occupés, et particulièrement de la Ruhr. Tonus. Génie Civil 85:172-5, 189-92 Ag 23-30 '24

Die frachtbelastung für eisen in der vor- und nachkriegszeit. F. Baare. Stahl & Eisen 45: 1348-57, 1384-8 Ag 6-13 '25

Der französische wirtschaftsimperialismus und die deutsche grosseisenindustrie. A. Heinrichsbauer. Stahl & Eisen 44:947-9 Ag 7 '24

50-jahr-feier des Vereins deutscher eisen- und stahlindustrieller. Stahl & Eisen 44:1349-56 O 30 '24

German iron and steel market shows improvement. Iron Age 115:60 Ja 1 '25

German iron and steel production. Iron Age 115:764-5 Mr 12 '25

German iron and steel trade conditions. Bradstreet's 53:674 O 17 '25

German outlook is promising. E. H. Regensburger. Iron Tr R 76:114-15 Ja 1 '25

Germany is striving to compete V. Delport. il Iron Tr R 76:159-62+ Ja 8 '25

Paris controls Germany's trade. E. H. Regensburger. Iron Tr R 74:119-22 Ja 3 '24

Die preisbewegung führender deutscher eisenerzeugnisse seit dem jahre 1900. J. W. Reichert. Stahl & Eisen 45:1242-9 Jl 16 '25

Present situation in Germany. H. Hermanns. il Blast F & Steel Pl 12:104-6 F '24

Ruhr iron and steel industry under the Dawes plan. C. K. Leith. Eng & Min J 119:597-8 Ap 11 '25

The Ruhr losses. H. Hermanns. il maps Blast F & Steel Pl 11:566-8 N '23

Die stabeisenpreise im in- und auslande seit 1900. J. W. Reichert. Stahl & Eisen 45: 716-21 My 7 '25

Zur wirtschaftlichen lage der kohlen- und eisenindustrie. Stahl & Eisen 44:403-5 Ap 10 '24

Great Britain

British home market invaded. Iron Tr R 76: 109-10 Ja 1 '25

British steel industry expands. W. J. Larke and M. S. Birkett. Iron Tr R 74:1697-1700+ Je 26 '24

Economics of the heavy iron and steel industry. F: Mills. Iron & Steel Inst J 111:31-42 no 1 '25; Same cond. Engineer 139:524-5 My 8 '25

Ferrous metals. M. S. Birkett. 165p Van Nostrand '25

Iron and steel in 1923. Economist 98:188-9 F 2 '24

Iron and steel in the industrial revolution. T: S. Ashton. 265p Longmans '24

Production of pig iron and crude steel in Great Britain in December and during 1923. Econ W n s 27:159-60 F 2 '24

Production of pig iron and crude steel in Great Britain in 1924. Econ W n s 29: 195-6 F 7 '25

Production of pig iron and crude steel in Great Britain, January to July, 1925. Econ W n s 30:303 Ag 29 '25

Italy

Iron and steel industry of Italy. G. E. Falck. Iron & Steel Inst J 108:11-32 no 2 '23; Same cond. Iron Tr R 73:1545-8 D 6 '23; Discussion. Iron & Steel Inst J 108:32-4 no 2 '23

Japan

Iron and steel industry of Japan. E. Kothny. Iron Age 112:1317-20, 1591-3, 1658-60 N 15, D 13-20 '23

Missouri

Making pig iron with Illinois coke. W. G. Maguire. Iron Tr R 74:1484-5 Je 5 '24

Ohio

Ohio a leader in iron and steel. Iron Tr R 75:1438-9 N 27 '24

Russia

Manganese and iron ore industries of Russia. V. Sverdloff. Engineer 139:280 Mr 6 '25

Southern states

South now consuming over eighty per cent of its pig iron. J. A. Green. Manuf Rec 86: 295-6 pt 2 D 11 '24

Sweden

Iron industry of Sweden. A. B. Sloane. il Blast F & Steel Pl 13:173-6 Ap '25

Die schwedische eisen- und holzindustrie. H. von Eckermann. il Zeit Ver Deutsch Ing 68:330-4 Ap 5 '24

Swedish iron and steel. Iron Age 116:656 S 3 '25

United States

A B C of iron and steel. A. O: Backert, ed. 5th ed. 415p Penton pub. co. '25

Business looks for fall recovery. Iron Age 115:1842+ Je 25 '25

Business readjustment nearly completed. L: H. Haney and B. M. Broudy. Iron Age 115: 1507-8+ My 21 '25

Country's large iron production in 1923. Comm & Fin Chr 118:1593-6 Ap 5 '24

Decrease in iron and steel output. Dun's R 33:8-9 My 23 '25

Exports as a percentage of production. Iron Age 113:45-6 Ja 3 '24

Foreign trade in iron and steel for 1923. Iron Age 113:509-12 F 14 '24

Has our industrial capacity been overbuilt? A. O. Backert. il Iron Tr R 74:3-6+ Ja 3 '24

Die hüttentechnischen grundlagen der amerikanischen eisenindustrie. G. Bulle. diags map Stahl & Eisen 45:1057-67 Jl 2 '25

Increasing activity in iron and steel. Dun's R 33:8-9 S 19 '25

IRON industry and trade—United States —*Continued*
Iron and steel exports from the United States for 11 months of 1923 and 1924, with percentage taken by each country. Iron Age 115:357 Ja 29 '25
Iron and steel; marketing and statistics in 1923. B. E. V. Luty. Eng & Min J 117:138 Ja 19 '24
Iron and steel production rises sharply. Dun's R 33:10-11+ F 7 '25
Iron and steel review of 1923. B. E. V. Luty. Blast F & Steel Pl 12:5-7 Ja '24
Iron and steel review of 1924. B. E. V. Luty. Blast F & Steel Pl 13:2-4 Ja '25
Iron industry in 1924. Min Cong J 11:416-17 Ag '25
Iron industry of to-day and to-morrow. J. A. Green. Comm & Fin 13:62-3 Ja 9 '24
Iron output and price related. L. P. Ayres. diag Iron Tr R 75:1232-3 N 6 '24
Iron production and prices. Published in weekly numbers of Commercial and financial chronicle
Marketing of iron ore and pig iron. B. E. V. Luty. il Eng & Min J 118:1005-10 D 27 '24
Most iron imported in raw state. F. M. Leonard. Iron Tr R 75:290-3 Jl 31 '24
Per capita production declines. Iron Tr R 76: 47 Ja 1 '25
Present conditions in the American iron and steel industry. Econ W n s 28:622-3 N 1 '24
Production and shipments of malleable castings. Comm & Fin Chr 118:1204 Mr 15 '24 [continued monthly]
Production of pig iron and crude steel in the United States in December and during the year 1923. Econ W n s 27:86-7 Ja 19 '24
Quarter century of iron and steel production. Iron Age 113:32-3 Ja 3 '24
Scrap iron—business barometer. C. H. Lipsett. Am Ind 25:15-17 Jl '25
Steel making in the United States last year. Iron Age 113:1691 Je 5 '24
Steel output falls to sixth; finished products also lower. Iron Tr R 76:1608-9 Je 18 '25; Excerpts. Iron Age 115:1777 Je 18 '25
Trend of iron and steel markets. L: H. Haney. Iron Age 115:492-4, 558-60, 839-40+, 1059-60+, 1132-4, 1654+; 116:86+, 217-18+, 356+, 422+, 478+, 755-6+ F 12-19, Mr 19, Ap 9-16, Je 4, Jl 9, 23, Ag 6-13, S 17 '25
When steel was young; how the warehouseman of seventy years ago helped to develop our domestic iron and steel industry. il Iron Age 115:1623-5 Je 4 '25

See also Crocker brothers; Republic iron and steel company; Shoenberger works; United States steel corporation

Wisconsin

Milwaukee is versatile workshop. il Iron Tr R 75:863-6 O 2 '24

IRON losses
Eisenverlustmessungen nach einer brückenmethode. J. Goldstein. Elektrotech Zeit 45: 1270-2 N 20 '24
Iron losses at high frequencies. G. W. O. Howe. diags Electrician 94:684-5 Je 12 '25
Iron losses in d.c. machines. E: Hughes. Inst E E J 63:35-50 D '24; Abstract. Elec R (Lond) 96:677-8 Ap 24 '25; Discussion. Inst E E J 63:687-9 Jl '25
Losses in iron under the action of superposed alternating- and direct-current excitations. O. E. Charlton and J. E. Jackson. bibliog il diags Am Inst E E J 44: 1220-5 N '25; Discussion. 44:1142-4 O '25
Properties and testing of magnetic materials. T. Spooner. diags Elec J 22:180-6, 230-4 Ap-My '25
Surface iron losses with reference to laminated materials. T. Spooner and I. F. Kinnard. Am Inst E E J 43:723-9 Ag '24; Discussion. 43:1175-6 D '24

See also Eddy currents; Hysteresis

IRON metallurgy
Aufbereitung der oberfränkischen doggererze. H. Müller. Stahl & Eisen 45:423-6 Mr 19 '25
Die bedeutung der physikalischen eigenschaften für die reduktionsgeschwindigkeit von eisenerzen. F. Wüst and P. Rütten. Stahl & Eisen 43:1540-2 D 13 '23
Charcoal pig iron. A. S. Pavloff. Iron Age 114:1406 N 27 '24
Coke and charcoal irons differ. W. E. Jominy. Iron Tr R 75:1023-5+ O 16 '24
Correlates iron and steel making practice. J. E. Fletcher. Iron Tr R 77:967-70, 1030-2+, 1150-2 O 15-22, N 5 '25; Same. Foundry 53:878-81+, 929-33 N 1-15 '25; Excerpt. Iron Age 116:1602-3+ D 10 '25
Data meager on foundry iron. R. R. McGowan. Foundry 52:593-5 Ag 1 '24
Desulphurisation of iron pyrites. F. C. Thompson and N. Tilling. diag Soc Chem Ind J 43:37-46 F 29 '24
Direct production of iron. E. Fornander. il diags Chem & Met Eng 30:864-8, 907-10 Je 2-9 '24; Abstract. Blast F & Steel Pl 12:339-40 Jl '24
Effect of silica in iron ore on cost of pig iron production. T. T. Read, T. L. Joseph and P. H. Royster. U S Bur Mines Rep of Invest 2560:1-10 Ja '24 (typew); Same cond. Iron Tr R 74:288-91 Ja 24 '24
Einfluss der erzstückgrösse auf die reduktionsvorgänge im hochofen. G. Bulle. diags Stahl & Eisen 45:390-2 Mr 12 '25
Entschwefelungs-, entgasungs- und desoxydationsverfahren für hochwertiges gusseisen. J. Mehrtens. il diags Stahl & Eisen 45:449-57 Mr 26 '25
French metallurgy (1889-1925) and the important part played by France in the past; some curious and unexplained facts connected with manganese steel. R. Hadfield. il Soc Chem Ind J (Chem & Ind) 44:1029-44 O 23 '25; Excerpts. Iron Tr R 77:1333-4, 1398-1400, 1464-5, 1597-8 N 26-D 10, 24 '25; Engineer 140:385-6 O 9 '25
Fundamentalism in ferrous metallurgy. B. D. Saklatwalla. Ind & Eng Chem 17:96-8 Ja '25; Same. Iron Age 114:1620-1, 1672-3 D 18-25 '24; Same. Soc Chem Ind J (Chem & Ind) 44:524-7 My 22 '25
Die gusseisenveredelung durch legierungszusätze. E. Piwowarsky. il Stahl & Eisen 45:289-97 F 26 '25
Die hüttentechnischen grundlagen der amerikanischen eisenindustrie. G. Bulle. diags map Stahl & Eisen 45:1057-67 Jl 2 '25
Iron and steel metallurgy in 1923. C. E. MacQuigg. bibliog Iron Age 113:77-8, 91-3 Ja 3 '24
Iron hottest at middle of cast. S. P. Kinney. Iron Age 116:466-7+ Ag 20 '25
Low temperature reduction of iron ore. J. K. Smith. Iron Age 113:1003-6 Ap 2 '24; Discussion. R: Miles. 113:1736-7 Je 12 '24
Making pig iron from Utah ore. G: J. Young. il Eng & Min J 119:209-10 Ja 31 '25; Same. Blast F & Steel Pl 13:123-5 Mr '25
Manganiferous ores in blast furnace. Iron Age 116:531 Ag 27 '25
Manufacture of pig iron; abstracts. Iron & Steel Inst J 110:364-80 no 2 '24
Massnahmen zur begünstigung der indirekten reduktion im hochofen. K. Hofmann. Stahl & Eisen 45:1709-11 O 8 '25
Material and heat balance of a southern foundry furnace. S. P. Kinney. Blast F & Steel Pl 13:272-7 Jl '25
Metallurgy of iron and steel. B. Stoughton. 3d ed. 519p McGraw-Hill '23
Metallurgy of iron and steel; advances in technology in 1924. B. Stoughton. Eng & Min J 119:117-18 Ja 17 '25
Metallurgy of iron and steel; technical advances noted in 1923. B. Stoughton. Eng & Min J 117:112 Ja 19 '24
Method for reducing the percentage of phosphorus in Swedish iron by diminishing the phosphorus in the charcoal. H. von Eckermann. Iron & Steel Inst J 111:379-91 no 1 '25
Orange county ironmaking; historic chain made at Sterling iron works. E. C. Kreutzberg. il Iron Tr R 75:157-60, 284-8 Jl 17, 31 '24

IRON metallurgy—*Continued*

Die physikalischen und chemischen grundlagen des eisenhüttenwesens. W. Mathesius. 2d ed., rev. & enl. 483p O. Spamer, Leipzig '24

Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. bibliog il diags Mech Eng 47:339-45, 479-84, 559-65, 637-42, 735-42, 832-6 My-O '25

Probable developments in the manufacture of iron and steel. F. Clements. Chem Age (Lond) 10:[Met sec]2-3 Ja 5 '24

Purifying iron ore by chemical methods. A. J. Moxham. Iron Age 113:1637-9 Je 5 '24

Reduction of iron ore in the blast furnace. P. H. Royster, T. L. Joseph and S. P. Kinney. diag Blast F & Steel Pl 12:35-7, 98-100, 154-8, 200-4, 246-50+, 274-80 Ja-Je '24

Sauerstoff im eisen. P. Oberhoffer. Stahl & Eisen 45:1341-8, 1379-84, pl 7 Ag 6-13 '25

Smelting iron ore in Oregon in 1867. R. C. Gosreau. il Iron Tr R 76:1062-3 Ap 23 '25

Soda ash as desulphurizer in foundry. Iron Age 115:473-4 F 12 '25

Southern experiment station—its problem and purpose. A. H. Hubbell. il Eng & Min J 118:132-4 Jl 26 '24

Statistical basis for industrial control. K. Daeves. diags Iron Age 113:1441-3 My 15 '24

Straight line production, Woodward iron, Alabama. F. J. Crolius. il diag Blast F & Steel Pl 12:264-7+ Je '24

Studies direct reduction of ore. il Iron Tr R 74:1635-6 Je 19 '24

Trend in metallurgy last year. C. E. MacQuigg. Iron Age 115:61-4 [bibliog. p. 64] Ja 1 '25

Ueber entschwefelung und reduktion im kuppelofen. A. Wagner. Stahl & Eisen 45:1205-7 Jl 9 '25

Ueber erzröstung. H. Fleissner. Stahl & Eisen 45:1373-9 Ag 13 '25

Untersuchungen über die entschwefelung des spateisensteins beim rösten. A. Weyel. Stahl & Eisen 45:1273-4 Jl 23 '25

Use sodium flux for iron. il Foundry 52:982-4 D 15 '24

Vanadium in iron ores and its extraction. R. von Seth. Eng & Min J 120:51-6 Jl 11 '25

Die verwendung von Martinschlacke als flussmittel beim schmelzen in kuppel- und flammöfen. H. Späthe. Stahl & Eisen 45: 297-9 F 26 '25

Die verwendung von sauerstoff und sauerstoffreicher luft bei der roheisenerzeugung. R. Schenck. Stahl & Eisen 44:521-6 My 8 '24

See also Blast furnaces; Case hardening; Cast iron; Flux; Foundry practice; Galvanizing; Iron alloys; Iron founding; Iron mines and mining; Iron works; Pig iron; Puddling; Slag; Steel metallurgy; Wrought iron

Bibliography

Current literature on ferrous metallurgy. E. H. McClelland. Blast F & Steel Pl 13:114+, 164-5, 207+, 256, 293, 319, 364, 405-6, 442-3, 485 Mr-D '25

Electrometallurgy

Electric reduction furnace iron. R. C. Gosrow. Iron Tr R 74:982-3+ Ap 10 '24

Elektrische roheisenerzeugung in Norwegen. R. Durrer. il diags Stahl & Eisen 45:631-3 Ap 23 '25

High frequency induction furnace plant for the manufacture of special alloys. P. H. Brace. bibliog il diags Am Inst E E J 44: 992-1001 S '25

L'industrie électrothermique des fontes, fers, aciers et des ferro-alliages. Mathieu and Sutter. Génie Civil 87:287-91 O 3 '25

Making pure iron commercially. il plan Iron Age 116:675-9 S 10 '25

New Norwegian electric pig iron furnace. F. Hodson and M. Sem. Iron Age 113:1585 My 29 '24

Producing electrolytic iron commercially. F. A. Eustis. Elec W 84:955 N 1 '24

Progress in electrolytic iron. D. Belcher. flow sheet Am Electrochem Soc Trans v 45 (preprint 11):157-72 Ap '24

Refining metals electrically. L. J. Barton. il Foundry 53:397-9, 439-41+, 493-7, 519-21, 560-3, 612-14 My 15-Ag 1 '25

Die rekristallisation des elektrolyteisens. P. Oberhoffer and W. Oertel. diag Stahl & Eisen 44:560-1 My 15 '24

Steel direct from iron ore; new electric process developed in Sweden. H. Flodin. il Iron Age 116:1247-8 N 5 '25; Same. Blast F & Steel Pl 13:424-5 N '25; Same. Engineering 120:432 O 2 '25; Discussion. Engineer 140:263 S 11 '25; Engineering 120:333-4 S 11 '25

See also Electric furnaces, Iron founding; Iron founding, Electric

IRON mines and mining

Iron mining in 1923. D. E. Woodbridge. Eng & Min J 117:88 Ja 19 '24

Iron ore mining in 1924. D. E. Woodbridge. Eng & Min J 119:86-7 Ja 17 '25

See also Iron ores

History

Glimpses of iron mining fifty years ago. D. E. Woodbridge. il Eng & Min J 120:453-7 S 19 '25

Alabama

Straight line production; Woodward iron cuts all unnecessary corners in reducing raw materials to high grade metal. F. J. Crolius. il Blast F & Steel Pl 12:226-32, 264-7+ My-Je '24

Canada

See also Iron ores—Canada

Italy

Emergency plant completed after war. H. C. MacLean. Iron Age 115:485-6 F 12 '25

Japan

Iron mining enterprise in Japan seems assured. G: J. Young. Eng & Min J 119:819 My 16 '25

Lake Superior region

Future of lake ore outlined. M. C. Lake. Iron Tr R 75:1701-5 D 25 '24

How the steel industry in the United States has reduced labor costs to the minimum. E: N. Vose. il Dun's Int R 44:41-5+ F '25

Intensive production of Lake Superior ores. D. E. Woodbridge. Iron Age 113:74-6 Ja 3 '24

Iron ore shipments in 1924 below ten-year average. A. J. Hain. Iron Tr R 76:355-8 Ja 29 '25

New era in iron ore industry; trade outlook bright. A. J. Hain. il Iron Tr R 76:35-9+ Ja 1 '25

Preparing for active year on ore ranges. D. E. Woodbridge. Iron Age 115:51-3 Ja 1 '25

Progress in iron ore trade reflects prosperity. A. J. Hain. il map Iron Tr R 74:45-9 Ja 3 '24

Story of steel. il map Sci Am 130:108-9+ F '24

Mexico

Brief review of iron mining in Mexico. K. Thomas and J: E. Kelly. Eng & Min J 118: 976-7 D 20 '24

Michigan

Glimpses of iron mining fifty years ago. D. E. Woodbridge. il Eng & Min J 120:453-7 S 19 '25

Narrow ore profits indicated. L. P. Barrett. Iron Tr R 77:684-6 S 17 '25

Taxes overburden iron mines. L. P. Barrett. diag Iron Tr R 77:619-21+ S 10 '25

Minnesota

First complete electrification of an open-pit iron-ore mine in Minnesota; specifications and operation costs of the electrical equipment. R. S. Walker. il diags maps Gen Elec R 27:580-91 S '24

IRON mines and mining—Minnesota—*Cont.*
Operations of the Mesabi iron co. A. B. Parsons. il diag map Eng & Min J 117:157-64, 202-10 Ja 26-F 2 '24

Missouri

St. Louis draws iron ore from various sources. A. J. Hain. il Iron Tr R 75:sup7-10 Ag 21 '24

New York (state)

Mining hematite paint at Clinton, N.Y. W: S. Black. il diags plan Eng & Min J 119:927-30 Je 6 '25

Russia

Ueber die ergebnisse der kursker bohrungen auf eisenerz. S. von Bubnoff. diag Stahl & Eisen 44:825-6 Jl 10 '24

Sardinia

Iron mines of Nurra (Sardinia). C. Martelli and T. Sotgia. Iron & Steel Inst J 108:125-31 no 2 '23

Spain

Iron ore from northern Spain. L. Barreiro. il Iron Age 116:680-3 S 10 '25
Spanish iron mining depressed. Eng & Min J 120:50 Jl 11 '25
World's oldest iron mine in Spain. C. De Kalb. il Manuf Rec 85:83-7 Mr 27 '24

See also Iron ores—Spain

Sweden

Swedish iron ore mining. A. B. Sloane. il Iron Age 115:1500-2 My 21 '25

Switzerland

Gonzen iron mines. il Eng & Min J 119:404 Mr 7 '25

United States

Less iron ore produced in 1924. Iron Age 115: 200 Ja 15 '25

See also Iron ores—United States

IRON ores
Estimating iron ore resources. C: P. Perin. Iron Tr R 75:1568 D 11 '24
Formula for determining the relative value of ores as applied to blast furnace conditions. J. P. Dovel. Iron Age 113:1429 My 15 '24.
Increasing use of manganiferous iron ore. Min Cong J 11:529+ N '25
Iron ore available for United States. O. R. Kuhn. map Iron Age 114:1204-5+, 1285-7 N 6-13 '24
Manganese minerals; their identification and paragenesis. G: A. Thiel. Econ Geol 19: 132-45, pl 3-4 Mr '24
Outlook for foreign iron ore. Iron Age 115: 1423-4 My 14 '25
Sedimentary problem. C. K. Leith. Econ Geol 19:382-5 Je '24; Discussion. A. M. Macgregor. 20:195-7 Mr '25
Titan ore prices and Titan products. Concrete (cement mill sec) 26:67 My '25
Vanadium in iron ores and its extraction. R. von Seth. Eng & Min J 120:51-6 Jl 11 '25

See also Chromite; Hematite; Iron industry and trade; Iron metallurgy; Iron mines and mining; Magnetite; Marcasite; Pyrites

Analysis

Iron ore contents held to standards. Iron Tr R 74:1251 My 8 '24

Bibliography

Report of the Ontario iron ore committee with appendix, 1923. 306p [bibliog. p. 235-90] Ontario Dept. of mines, Toronto '24

Prices

Iron ore prices cut 80 cents. Iron Tr R 74:998-1000 Ap 10 '24; Iron Age 113:1101 Ap 10 '24
Lake Superior iron ore reduced 50 cents. Iron Age 115:1067-8 Ap 9 '25
Marketing of iron ore and pig iron. B. E. V. Luty. il Eng & Min J 118:1005-10 D 27 '24
Ore cut averages 52 cents. A. J. Hain. Iron Tr R 76:978-9 Ap 9 '25
Unit values of Lake Superior iron ores. Iron Age 115:1147 Ap 16 '25; Iron Tr R 76:1037 Ap 16 '25

Transportation

When iron floats—plenty of water is needed; Supreme court's decision pertaining to the Chicago drainage canal effect on the iron and steel industry. A. J. Hain. il Iron Tr R 76:230-2 Ja 15 '25

Canada

Report on the utilization of the low-grade iron ores of Canada. Can Chem & Met 8: 71 Mr '24

See also Iron ores—Ontario

China

China's ore reserves prove small; Far East's three billion tons: modern blast furnaces coming into use. O. R. Kuhn. il map Iron Tr R 76:215-19 Ja 15 '25

France

French iron ore and German coke. Annalist 25:221 F 9 '25

Georgia

Iron ore deposits of Georgia. R. H. Haseltine. Georgia Geol S Bul 41:1-222 '24

Great Britain

Iron ores of England and Wales. Engineering 119:674 My 29 '25
Origin of British iron ores traced. E. C. Eckel. Iron Tr R 77:68-9 Jl 9 '25
Sedimentary iron ores of England. E. C. Eckel. Manuf Rec 88:77 Ag 13 '25

Lake Superior region

Efficiency in handling ore. il Iron Tr R 76: 1523 Je 4 '25
Iron content of Lake Superior ore well maintained. Iron Age 115:1502 My 21 '25
Iron ore grade unchanged. Eng & Min J 119: 1002 Je 20 '25
Lake Superior iron ore shipments in 1924. Iron Age 115:455 F 5 '25
Ore record for 1923 completed. A. J. Hain. Iron Tr R 74:433-6 F 7 '24
Ore shipments not equal to tonnage used. Iron Age 115:53 Ja 1 '25
Ore to last 100 years; Lake Superior reserves are good for a century. C. Zapffe. Iron Age 116:753 S 17 '25
Where Lake Superior ore went in 1924. Iron Age 116:631 S 3 '25

Minnesota

Cuyuna ores more in demand. C. Zapffe. Iron Tr R 76:946-8 Ap 9 '25
Duluth, the iron ore city, holds jubilee. D. E. Woodbridge. il map Eng & Min J 120:231-2 Ag 8 '25
Enrichment of the Mesabi iron ores. I. S. Allison. Econ Geol 20:693-7 N '25
Iron sulphides in magnetic belts near the Cuyuna range. G: A. Thiel. il Econ Geol 19: 466-72 Ag '24
Magnetite segregation in banded syenite in Minnesota. F. F. Grout. il map Econ Geol 20:424-30 Ag '25
Operations of the Mesabi iron co. A. B. Parsons. il diag map Eng & Min J 117:157-64 Ja 26 '24

North Carolina

Magnetic iron ores of east Tennessee and western North Carolina. W: S. Bayley. 252p Tennessee geol. survey, Nashville '23

Ontario

Extent of Ontario's iron ore deposits. Can Chem & Met 8:223 S '24
Report of the Ontario iron ore committee with appendix, 1923. 306p [bibliog. p. 235-90] Ontario Dept. of mines, Toronto '24

Siberia

Iron and alloy metals in Siberia. B. Baievsky. maps U S Bur For & Dom Com Trade Information Bul 359:1-28 '25

IRON ores—*Continued*

South Dakota

Geology of the region around Lead, South Dakota, and its bearing on the Homestake ore body. S. Paige. U S Geol S Bul 765:1-58 '24

Southern states

Iron ore resources of the South. E. F. Burchard. map Manuf Rec 86:283-9 pt 2 D 11 '24

Spain

Iron ore and control of the Strait of Gibraltar. C. DeKalb. Eng & Min J 118:564 O 11 '24

Sweden

Swedish iron ore mining. A. B. Sloane. il Iron Age 115:1500-2 My 21 '25

Tennessee

Magnetic iron ores of east Tennessee and western North Carolina. W: S. Bayley. 252p Tennessee geol. survey, Nashville '23

United States

Iron in 1924. Min Cong J 11:65-6 F '25; Same cond. Iron Tr R 76:293 Ja 22 '25; Same cond. Manuf Rec 87:79 Ja 15 '25

Iron ore produced in 1923—increase in output and value. Comm & Fin Chr 118:494-5 F 2 '24; Same. Iron Tr R 74:213 Ja 17 '24; Same. Iron Age 113:225 Ja 17 '24

Our iron ore imports are increasing. P. M. Tyler. Iron Age 113:795-8 Mr 13 '24

Virginia

Origin of Clinton hematite ores. G: W. Stose. il Econ Geol 19:405-11 Ag '24

IRON oxides

Beitrag zur kenntnis des zustandsdiagramms eisenoxydul und kieselsäure. O. v. Keil and A. Dammann. diag Stahl & Eisen 45:890 Je 4 '25; Same (Iron oxide and silica). Engineer 140:sup121 Ag 28 '25

Combustion of sulphur-containing materials in hand and mechanical burners. P. Parrish. Soc Chem Ind J 44:313-17, 321 Jl 3-10 '25

Conditions affecting the activity of iron oxides in removing hydrogen sulphide from city gas. W. A. Dunkley and R. D. Leitch. diags U S Bur Mines Tech Pa 332:1-33 '24; Same cond. Gas J (Lond) 171:443-7 Ag 19 '25; Summary. Am Gas J 122:447 My 23 '25

Effect of iron oxide pigments on rate of oxidation of linseed oils. F. H. Rhodes, C. R. Burr and P. A. Webster. Ind & Eng Chem 16:960-2 S '24

Equilibria involving the oxides of iron. E. D. Eastman and R. M. Evans. diag Am Chem Soc J 46:888-903 Ap '24

Ferric oxide in steel making. J. H. Whitney. Iron Age 116:1031+ O 15 '25

Manufacture and use of red oxide. J. A. McNulty. Rubber Age 16:369 Mr 10 '25

Preparation of fused iron oxide for use as a catalyst. A. T. Larson and C. N. Richardson. diags Ind & Eng Chem 17:971-2 S '25

Reduction of nickelous and ferric oxides by hydrogen. A. F. Benton and P. H. Emmett. Am Chem Soc J 46:2728-37 D '24

Report of chemical sub-committee on cooperative tests of purifying oxides, according to methods of gas chemists' handbook. Am Gas Assn Technical sec v 5:1163-71 '23

Tests of oxide. Gas J (Lond) 168:849-50 D 24 '24

See also Hematite; Iron hydroxides; Limonite; Magnetite; Ocher

IRON removal from water. See Water purification—Iron removal

IRON selenide

Ferrous selenide as a contact catalyst for cracking. T: Midgley, jr. and C. A. Hochwalt. Ind & Eng Chem 16:365-6 Ap '24

IRON silicates

See Hisingerite

IRON silicon alloys

Acid-resisting iron for nitric acid plant. S. J. Tungay. diags Chem Age (Lond) 11:sup 25-7 O 4 '24

Alloys of iron and silicon. G. Phragmén. Engineer 139:sup22-3 F 27 '25

Determination of silicon in iron-silicon alloys by their physical properties. T. D. Yensen. Engineering 117:173 F 8 '24; Same. Ind & Eng Chem 16:366-7 Ap '24

Der einfluss der korngrösse auf die verlustziffern von dynamo- und transformatorenblechen. K. Daeves. il Stahl & Eisen 44: 1283-6 O 16 '24

Equilibrium at high temperatures in the iron-carbon-silicon system. M. L. Becker. Engineering 120:412-13 O 2 '25

Magnetic and electrical properties of the ternary alloys FE-SI-C. T. D. Yensen. Am Inst E E J 43:558-67 Je '24; Discussion. 43: 1065-8 N '24

Manufacture of high silicon irons and their application by the water works engineer. W. H. Scott. Am Water Works Assn J 14: 29-31 Jl '25

Das ternäre system eisen-silizium-kohlenstoff. E. Piwowarsky. diags Stahl & Eisen 45:634-6 Ap 23 '25

Ueber den aufbau der eisen-silizium-legierungen. R. Durrer. il Stahl & Eisen 45:51-2 Ja 8 '25

Ueber den aufbau der eisen-silizium-legierungen. G. Phragmén. il Stahl & Eisen 45: 299-300 F 26 '25

Ueber die dichte von eisen-silizium-legierungen und deren beziehung zum zustandsdiagramm. O: Hengstenberg. Stahl & Eisen 44:914-15 Jl 31 '24

Zur kenntis der eisen-silizium-legierungen. P. Oberhoffer. Stahl & Eisen 44:979 Ag 14 '24

Der zusammenhang zwischen kerbzähigkeit und gleitebenenbildung. F: Körber. il Stahl & Eisen 45:1146-9 Jl 9 '25

See also Ferrosilicon

IRON sulfate

Ferric sulphate leaching at Inspiration. G. D. Van Arsdale. Eng & Min J 120:689 O 31 '25

Oxidation of ceramic wares during firing; the decomposition of various compounds of iron and sulphur under simulated kiln conditions. F: G. Jackson. Am Cer Soc J 7: 382-96 My '24

Oxidation of ferrous sulfate to ferric sulfate by means of air in copper metallurgy. J. H. Reedy and J. S. Machin. diag Ind & Eng Chem 15:1271-2 D '23

Water-softening in Virginia by iron sulphate and lime. Am Water Works Assn J 12:243-6 O '24

IRON sulfides

Iron sulphides in magnetic belts near the Cuyuna range. G: A. Thiel. il Econ Geol 19: 466-72 Ag '24

See also Pyrite

IRON thiocyanate

Colloidal complications in the thiocyanate method of estimating soil acidity. F. O. Anderegg and R. P. Lutz. Ind & Eng Chem 17: 1153-4 N '25

IRON workers

Customary working time in the iron and steel industry, 1924. Monthly Labor R 19:544-7 S '24

Employment and average earnings in the English iron and steel trades. Monthly Labor R 20:546-7 Mr '25

Fatigue in the iron and steel trades. Engineer 138:187-8. 377 Ag 15, O 3 '24

Labor; employment—earnings—efficiency. L: H. Haney. Iron Age 115:354+ Ja 29 '25

Productivity of iron and steel labor shows gain as earnings increase. L: H. Haney. Iron Age 116:968+ O 8 '25

Sonderregelung der arbeitszeit in den kokereien und hochofenwerken. E. Hoff. Stahl & Eisen 45:231-5 F 12 '25

Wages and hours in the bar, blooming, plate, puddling, and standard rail mill departments of the iron and steel industry, 1924. Monthly Labor R 19:365-82 Ag '24

IRON workers—*Continued*
Wages and hours of labor in the iron and steel industry, 1907 to 1922. U S Bur Labor Statistics Bul 353:1-174 '24
Wages and hours of labor in the iron and steel industry: 1907-1924. U S Bur Labor Statistics Bul 381:1-163 '25

IRON works
See also Foundries; Steel works

Accidents
Accident experience of the iron and steel industry. L. W. Chaney. Monthly Labor R 19: 1139-45 N '24

Employees
See Iron workers

Lighting
Artificial illumination in the iron and steel industry. W. H. Rademacher. bibliog il Illum Eng Soc 18:824-41 N '23; Abstract. Am Inst E E J 44:81-2 Ja '25; Discussion. Illum Eng Soc 18:841-5 N '23

Power
Power and fuel consumption of the iron and steel industries of Pittsburgh. S. B. Ely and W. F. Rittman. il map Blast F & Steel Pl 13:449-55 N '25
Power used in the iron and steel industry. B. R. Shover. charts Elec W 84:681-2 S 27 '24

Germany
Activities of former armament works; Spandau and Haselhorst works. F. A. Brackmann. il Iron Age 113:1151-3 Ap 17 '24
200 jahre Lauchhammer. Stahl & Eisen 45: 1453-4 Ag 27 '25

Italy
Visits and excursions at the Milan meeting. Iron & Steel Inst J 108:329-64 no 2 '23

New York (state)
Orange county ironmaking; historic chain made at Sterling iron works. E. C. Kreutzberg. il Iron Tr R 75:157-60, 284-8 Jl 17, 31 '24

Pennsylvania
Centenary of Shoenberger works. il Iron Age 116:141-3 Jl 16 '25
Juniata, Shoenberger works, Pittsburgh, 100 years old. A. J. Hain. il Iron Tr R 75:475-9 Ag 21 '24

United States
New capacity in iron and steel plants. Iron Age 115:81-8 Ja 1 '25
New capacity in iron and steel works. Iron Age 113:109-14+ Ja 3 '24
Wesen und betrieb amerikanischer eisenhüttenwerke. H. Bleibtreu. Stahl & Eisen 45:1067-71 Jl 2 '25

Virginia
Going back to Longdale where furnaces, mines and mansions were part of a principality. W: W. Hearne. il Iron Tr R 77: 1023-7 O 22 '25

IRONING machines
New type of Decoudon ironing machine. il diags Engineer 138:564-6 N 14 '24

Directories
Journal of electricity appliance directories. J Elec 55:289 O 15 '25

IRONWORK, Architectural
Architectural tradition in New Orleans. N. C. Curtis and W: P. Spratling. il diags Am Inst Arch J 13:279-96 Ag '25
Early colonial hand forged iron work. M. S. Teller. il diag plan Arch Rec 57:395-416 My '25
Work of Edgar Brandt. L. V. Solon. il Arch Rec 57:94-6 Ja '25

Specifications
Ornamental and miscellaneous iron specifications. Am Arch 126:355-6 O 8; sup14 N 5 '24

IRONWORK, Artistic
Decorative iron in an interior scheme. il Am Arch 126:185-90 Ag 27 '24

IRRIGATION
Applying efficient machinery to soil drainage and irrigation. R. Brennan. il Dun's Int R 45:53-5 Jl '25
Certain relations of water to soil in irrigated land. Eng N 93:219 Ag 7 '24
Co-ordination of irrigation and hydroelectric power. L: F. Leurey. J Elec 53:83-4 Ag 1 '24
Corrugation method of irrigation. J. C. Marr. 24p U S Agric Farmers' Bul 1348:1-24 '23; Excerpt. Eng & Contr (W W) 61:359-60 F 13 '24
Depreciation on slip-joint protected steel pipe. E. C. Eaton. Eng N 95:603-4 O 8 '25
Electrical applications to irrigation pumping. R. H. Cates. Am Inst E E J 43:1042-6 N '24; Discussion. 44:418-19 Ap '25
Extending dug wells below water level; methods used in irrigation practice in Arizona. G. E. P. Smith. diag plan Eng & Contr (W W) 62:778 O 8 '24
Hydro-electric power as a by-product of agricultural storage. E. N. Bryan. Am Soc C E Pro 51:80-92 Ja '25; Abstract. Elec R (Lond) 96:195-6 Ja 30 '25; Discussion. Am Soc C E Pro 51:909-10 My '25
Interdependence of irrigation and hydroelectric power. J: D. Galloway. diag J Elec 52:351-4 My 15 '24
Irrigation and community development. W. H. Snelson. il Can Eng 48:121-4 Ja 13 '25
Irrigation and drainage laws critically reviewed. R. P. Teele. Eng N 93:788-90 N 13 '24; Discussion. 93:1047-8; 94:290 D 25 '24, F 12 '25
Modern irrigation system of the Salinas land company. il J Elec 55:252-3 O 1 '25
National reclamation by irrigation. E. Mead. Eng & Contr (W W) 63:326-8 F 11 '25
Practice of irrigation engineering, a manual for beginners. J: C. Cleghorn. Eng N 94: 706 Ap 23 '25
Principles of irrigation engineering. F. E. Kanthack. 299p Longmans '24
Progress report of special committee on irrigation hydraulics. Am Soc C E Pro 51:[Soc aff]137-40 Mr '25
Pumping from wells for irrigation. P. A. Ewing. diags U S Agric Farmers' Bul 1404:1-27 '24
Relation of land settlement to irrigation. E. Mead. W Soc E J 29:241-6 Je '24
Relation of power to irrigation. A. A. Smith. N E L A Bul 11:52-4 Ja '24
See also Dams; Drainage; Irrigation canals; Reclamation of land; Water storage

Bibliography
Bibliography on subjects selected for research by the special committee on irrigation hydraulics. Am Soc C E Pro 51:[Soc aff]147-60 Mr '25

Finance
Making high-cost irrigation feasible; abstract with discussion. E. Mead. Eng N 95:104-5 Jl 16 '25
Report of I.B.A. irrigation securities committee. Comm & Fin Chr 119:1464-5 S 27 '24

Law
Drainage of irrigation lands may be charged to maintenance. Eng N 94:817 My 14 '25

Management
Human qualities essential in an irrigation district. G: Ebner. Eng N 92:846-7 My 15 '24

Tables, calculations, etc.
Discharge of irrigation siphons in California. L. S. Hall. Eng N 93:1024-5 D 25 '24

Alberta
Bassano dam and irrigation works. il Engineering 119:63-5 Ja 16 '25
Lethbridge northern irrigation district in Alberta. C. M. Arnold and H. G. Cockrane. il diags map Eng N 92:243-8 F 7 '24

IRRIGATION—*Continued*

Arkansas

Rice field irrigation in Arkansas. il Eng & Contr (W W) 61:115-16 Ja 9 '24

Australia

Improved irrigation development for Australia. Eng N 92:440 Mr 13 '24
Irrigation enterprises in Australia. il Engineer 139:462, 465 Ap 24 '25
Irrigation in Australia—the Murrumbidgee project in New South Wales. J. N. Barclay. il Dun's Int R 44:47-51 Ja '25; Same. World's Markets 15:8-12 Ap '24

California

Emergency pumping plant saved irrigation crops. H. F. McPhail. il Eng N 93:861 N 27 '24
Recovery of return and seepage waters in California. T. R. Simpson. diags map Eng N 93:751-4 N 6 '24

Canada

Development of irrigation in northwest Canada. P. J. Jennings. il map Eng N 92:616-18 Ap 10 '24
Irrigation problems in West. Can Eng 49:258 Ag 25 '25
Operation and maintenance of irrigation systems. R. S. Stockton. il Eng & Contr (W W) 61:584-8 Mr 12 '24

Egypt

Le barrage de Sennar, sur le Nil Bleu et l'irrigation de la plaine de Gezira (Haute-Égypte). il diags map Génie Civil 85:500-3 N 29 '24
Gezira irrigation scheme. il plan Engineer 140: 211-14, 216 Ag 28 '25
Irrigation pumping machinery (Gezira scheme), Sudan. R: W. Allen. diags plan Engineering 117:654-6, 685-7 My 16-23 '24; Same cond. Engineer 137:549-50; Discussion. 542 My 16 '24
Race with nature; construction of the Sennar dam, on the Blue Nile. H. J. Shepstone. il map Sci Am 132:26-7 Ja '25
Sennar dam and the Gezira irrigation scheme. il (supp) charts diags Engineer 138:348-50, 352 S 26 '24

Hawaiian Islands

Insular irrigation; Hawaii finds it necessary to control her water supply. A. L. Dahl. il Sci Am 130:322 My '24

Idaho

Building Black Canyon irrigation dam in western Idaho. W. Ward. il diags Eng N 93:818-23 N 20 '24

India

India building world's greatest irrigation project. il Eng N 92:904; 93:268 My 22, Ag 14 '24
Irrigation in India. D. G. Harris. 100p Oxford '23

Indo China

Les possibilités d'irrigation et d'assèchement du delta du Tonkin. Génie Civil 83: 442-3 N 3 '23

Mexico

Colorado river problem. W: Kelly. maps Am Soc C E Pro 50:795-836, pl 5 Ag '24; Abstract. Elec W 83:640-1 Mr 29 '24; Discussion. Am Soc C E Pro 50:1436-99; 51:262-88 N '24, F '25

Queensland

Dawson Valley irrigation project. Engineer 138:494 O 31 '24

Spain

Electric irrigation plant at Los Almadenes, Spain. H. Desbarres. Elec W 82:1130 D 1 '23
Irrigation in Spain. Can Eng 49:215 Ag 11 '25

Sudan

See Irrigation—Egypt

Texas

Wichita dam; completion of another big Western irrigation project. il Sci Am 131:30 Jl '24

Transvaal

Bon Accord irrigation—Transvaal. E. H. Hughes. Engineer 139:155 F 6 '25

United States

American irrigation during the past 23 years. Eng & Contr (W W) 60:1243-7 D 12 '23
Boulder Canyon storage and power favored by Dr Mead. Eng N 94:283 F 12 '25
Colorado river problem. W: Kelly. maps Am Soc C E Pro 50:795-836, pl 5 Ag '24; Abstract. Elec W 83:640-1 Mr 29 '24; Discussion. Am Soc C E Pro 50:1436-99; 51:262-88 N '24, F '25
Columbia Basin project to cost two hundred millions. Eng N 94:400 Mr 5 '25
Forecast of future irrigation development. S: Fortier. Eng & Contr (W W) 61:594-5 Mr 12 '24
Irrigation district operation and finance. W. A. Hutchins. 56p U S Agric Bul 1177:1-56 '23
Irrigation needs and possibilities of the Great Plains. Eng N 95:631 O 15 '25
New safeguards sought for reclamation projects. Eng N 93:970 D 11 '24
Notes on western reclamation; summary of an editor's inspection trip. W. W. DeBerard. Eng N 93:898-900, 948-50 D 4-11 '24
Problem of the Colorado river. W: F. Durand. il maps Mech Eng 47:79-84 F '25
Reclamation advisers report on needs of projects and policy for future irrigation; excerpts. Eng N 92:726-9 Ap 24 '24; Elec W 83:797 Ap 19 '24; Eng & Contr (W W) 61: 1281-2 Je 11 '24
Report against Columbia basin irrigation project. Eng N 95:502-3 S 24 '25

See also Reclamation service (United States)

Washington (state)

White Bluffs-Hanford land settlement experiment. H. W. Cooper. il J Elec 54:313-15 My 1 '25
White Bluffs-Hanford land settlement in Washington. Eng N 95:765 N 5 '25

IRRIGATION canals

Design and construction of small, concrete-lined canals. W. E. Code. il diags Univ Ariz Agric Exp Sta Bul 97:1-37 S '23; Excerpt. Eng & Contr (W W) 61:1314-16 Je 11 '24; Summary. Eng N 93:59 Jl 10 '24
Dragline operation on canal. diags Eng & Contr (G C) 64:671 S 16 '25
Effect of berms on flow in Alamo canal. G. G. Sypes. Eng N 95:433 S 10 '25
Lethbridge northern irrigation district in Alberta. G. M. Arnold and H. G. Cockrane. il diags map Eng N 92:243-8 F 7 '24
Lining canals. Pub Works 54:349 N '23
Sand sluicing on the Rio Grande project. Eng & Contr (W W) 64:358-60 Ag 12 '25

See also Flumes

IRRIGATION laws

Irrigation and drainage laws critically reviewed. R. P. Teele. Eng N 93:788-90 N 13 '24
Irrigation and reclamation laws, etc., of Australia, Canada, Great Britain, India, and South Africa. C. L. W. Meyer. 243p Govt. ptg. off., Washington '25

IRRITANT gases. See Gases, Irritant

IRVING, Washington

How shall we say it, in the style of Washington Irving or Michael Arlen? A. Bradbury. Ptr Ink 129:70+ D 18 '24

IRWIN, David D., 1887-

Mining engineers of note. por Eng & Min J 120:204 Ag 8 '25

ISATIN

Condensation of rhodanic acids with isatin; 3-aryl-rhodanal-$\Delta^{5,3'}$-oxindoles. R. M. Hann. Am Chem Soc J 47:1189-91 Ap '25

ISATIN—*Continued*
Condensation reactions of cyclic ketones; the action of isatin and isatin alpha chloride upon certain hydantoins. A. J. Hill and H: R. Henze. Am Chem Soc J 46:2806-10 D '24
N-substituted oxindoles and isatins. R. Stollé and others. Chem Soc J 124 pt 1:1125-7 N '23
Researches on quinazolines; a quinazoline analog of cinchophen (atophan); the synthesis of new quinazoline carboxylic acids from isatin and from ortho-amino-acetophenone. M. T. Bogert and F. P. Nabenhauer. Am Chem Soc J 46:1702-7 Jl '24
Supposed cases of isomerism in the isatin series. A. Hantzsch. Chem Soc J 124 pt 1: 1226-7 D '23

ISLAND Creek coal company
Coal mining and the business cycle. W: L. Crum and H. B. Vanderblue. charts Harvard Business R 4:71-7 O '25
Island Creek mines. Coal Age 28:341-64 S 10 '25

ISLE of Pines
Isle of Pines. Nat City Bank p 32-3 F '25
Isle of Pines treaty. Nat City Bank p 64-5 Ap '25
Isle of Pines treaty ratified by Senate—United States concedes island to Cuba under twenty-one-year-old pact. Comm & Fin Chr 120:1695 Ap 4 '25

ISO-degree-day chart. See Heating—Tables, calculations, etc.

ISOAMYL alcohol
Volumetric method of measurement of the mutual solubility of liquids; the mutual solubility of the systems ethyl ether-water and iso-amyl alcohol-water. I. A. Kablukov and V. T. Malischeva. Am Chem Soc J 47:1553-61 Je '25

ISOCANDLES. See Photometry

ISOCARBS. See Coal

ISOCITRIC acid
Non-volatile acids of the blackberry. E. K. Nelson. Am Chem Soc J 47:568-72 F '25

ISOCYANATES
Mechanism of the reaction of isocyanates and isothiocyanates with the Grignard reagent. H: Gilman and C. R. Kinney. Am Chem Soc J 46:493-7 F '24

ISOCYANIC acid
Condensation of aromatic aminosulphonic acids with *iso*cyanic acid, phenylcarbimide, and cyanamide. J: R. Scott and J. B. Cohen. Chem Soc J 123:3177-91 D '23

ISODIPHENETIDINE
Preparation of isodiphenetidine. J: R. H. Whiston. Soc Chem Ind J 43:269-70 D 26 '24

ISOELECTRIC point
Iso-electric point of malt amylase. H. C. Sherman, A. W. Thomas and M. L. Caldwell. Am Chem Soc J 46:1711-17 Jl '24
Iso-electric points of gliadin and glutenin. E. L. Tague. Am Chem Soc J 47:418-22 F '25
Second isoelectric point of gelatin. E. O. Kraemer. J Phys Chem 29:410-13 Ap '25

ISOFLAVONE
Synthetical experiments in the *iso*flavone group. W. Baker and R. Robinson. Chem Soc J 127:1981-6 S '25

ISOMERISM
Color and constitution: effect of isomerism on the color of certain azo dyes. M. L. Crossley and P. V. Resenvelt. Ind & Eng Chem 16:271-3 Mr '24
Isomeric benzoyl derivatives from vinyldiacetonamine. F: S. Kipping and T. Greasley. Chem Soc J 125:2611-16 D '24
Isomeric esters of para-ethoxy-benzoylacrylic acid. G. P. Rice. Am Chem Soc J 46:2319-26 O '24
Isomeric esters of para-methoxy-benzoylacrylic acid. G. P. Rice. Am Chem Soc J 46:214-23 Ja '24
Isomerism of the oximes; action of picryl chloride and of 2:4-dinitrochlorobenzene on aldoximes. O. L. Brady and L: Klein. Chem Soc J 127:844-52 Ap '25
Isomerism of the oximes; some bromo- and nitro-substituted mono- and di-methoxybenzaldoximes. O. L. Brady and L. B. Manjunath. Chem Soc J 125:1060-8 My '24
Isomerism of the oximes; substituted cinnamaldoximes. O. L. Brady and H. J. Grayson. Chem Soc J 125:1418-21 Jl '24
Isomerism of the oximes; the action of 2:4-dinitrochlorobenzene on some isomeric aldoximes. O. L. Brady and R: Truszkowski. Chem Soc J 125:1087-96 My '24
Isomerism of the oximes; the action of ultra-violet light on aldoximes and their derivatives. O. L. Brady and G. P. McHugh. Chem Soc J 125:547-54 Mr '24
Isomerism of the oximes; the alleged fourth benzildioxime. O. L. Brady and F: P. Dunn. Chem Soc J 125:291-6 Ja '24
Isomerism of the oximes; the configuration of the aldoximes. O. L. Brady and G. Bishop. Chem Soc J 127:1357-62 Je '25
Isomerism of the oximes; the isomeric *p*-nitrobenzophenoneoximes and their four methyl ethers. O. L. Brady and R. P. Mehta. Chem Soc J 125:2297-2304 N '24
Isomerism of the oximes; 3-nitro- and 3-bromo-*p*-dimethylaminobenzaldoximes. O. L. Brady and R: Truszkowski. Chem Soc J 123: 2434-9 O '23
Isomerism of the styryl alkyl ketones; the isomerism of 2-hydroxystyryl methyl ketone. A. McGookin and I. M. Heilbron. Chem Soc J 125:2099-2105 O '24
Muconic and hydromuconic acids; the isomerism of the muconic acids. E. H. Farmer. Chem Soc J 123:2531-48 O '23
Origin of mutarotation and the mechanism of isomeric change; abstract and discussion. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 43:10-11 Ja 4 '24
Oxime of mesoxamide *iso*nitrosomalonamide and some allied compounds; structural and stereo-isomerism in the methyl ethers of the *p*-tolyl derivatives. A. Plowman and M. A. Whiteley. Chem Soc J 125:587-604 Mr '24
Parachor and chemical constitution; geometrical isomerides. S: Sugden and H: Whittaker. Chem Soc J 127:1868-74 Ag '25
Phenomena of rotation dispersion. T. S. Patterson. Soc Chem Ind J (Chem & Ind) 43: 454-7 My 2 '24; Discussion. 43:539-42 My 23 '24
Preparation of the isomeric methoxybenzyl bromides. J: B. Shoesmith. Chem Soc J 123:2698-2703 O '23
Pyridofluorene and some of its derivatives. W: H. Mills, W: H. Palmer and M. G. Tomkinson. Chem Soc J 125:2365-70 N '24
Researches on unsaturated ketonic acids; some experiments with beta-benzoylacrylic acid and related compounds. M. T. Bogert and J: J. Ritter. Am Chem Soc J 47:526-35 F '25
Search in the diphenylmethane series for the isomerism characteristic of certain diphenyl derivatives. C. L. Butler, jr. and R. Adams. Am Chem Soc J 47:2610-20 O '25
Solubility relations in isomeric organic compounds; the construction of the ideal ternary solubility diagram, and its use in analysis. G. T. Kohman and D. H. Andrews. diags J Phys Chem 29:1317-24 O '25
Solubility relations of isomeric organic compounds. J: Johnston. J Phys Chem 29:882-8 Jl '25
Solubility relations of isomeric organic compounds; the determination of freezing temperatures of binary mixtures. D. H. Andrews, G. T. Kohman and J: Johnston. diags J Phys Chem 29:914-25 Ag '25
Solubility relations of isomeric organic compounds; the mutual solubility of the three dinitrobenzenes. D. H. Andrews. J Phys Chem 29:1041-7 S '25
Spatial structure of *cyclo*paraffins; a new aspect of Mohr's theory and the isomerism of decahydronaphthalene. W. A. Wightman. Chem Soc J 127:1421-4 Je '25; Discussion. Soc Chem Ind J (Chem & Ind) 44:605-6 Je 12 '25

ISOMERISM—*Continued*
Stereoisomeric semicarbazones. F. J. Wilson and R. M. Macaulay. Chem Soc J 125:841-4 Ap '24
Stereoisomerism and local anæsthetic action in the β-eucaine group; resolution of β- and iso-β-eucaine. H. King. Chem Soc J 125: 41-57 Ja '24
Stereoisomerism of quadrivalent sulphur, selenium and tellurium. R. F. Goldstein. Soc Chem Ind J (Chem & Ind) 44:1011-12 O 16 '25
Studies of dynamic isomerism; experiments on the arrest of mutarotation of tetramethylglucose. T: M. Lowry and E. M: Richards. Chem Soc J 127:1385-1401 Je '25; Summary, with discussion. Soc Chem Ind J (Chem & Ind) 44:282-3 Mr 13 '25
Studies of dynamic isomerism; the mechanism of mutarotation. T: M. Lowry. Chem Soc J 127:1371-85 Je '25
Studies of dynamic isomerism; the mutarotation of aluminium benzoylcamphor. I. J: Faulkner and T: M. Lowry. Chem Soc J 127:1080-5 My '25
Studies of dynamic isomerism; the mutarotation of beryllium benzoylcamphor. H: Burgess and T: M. Lowry. diag Chem Soc J 125:2081-96 O '24
Studies on the directive influence of substituents in the benzene ring; a chemical method for estimating the meta isomer in some disubstituted derivatives of benzene. A. W. Francis and A. J. Hill. Am Chem Soc J 46:2498-2505 N '24
Supposed cases of isomerism in the isatin series. A. Hantzsch. Chem Soc J 124 pt 1:1226-7 D '23
Three isomeric crystalline tetra-acetylmethyl-*d*-mannosides. J. K. Dale. Am Chem Soc J 46:1046-51 Ap '24
See also Optical rotation; Stereochemistry; Tautomerism

ISOMORPHISM
Isomorphism of the amides and substituted amides of dichloro- and chloroiodo-acetic acids, and of chlorobromo- and chloroiodo-acetic acids. P. V. McKie. Chem Soc J 125: 1075-9 My '24

ISONITROSOMALONAMIDE
Oxime of mesoxamide (*iso*nitrosomalonamide) and some allied compounds; structural and stereo-isomerism in the methyl ethers of the *p*-tolyl derivatives. A. Plowman and M. A. Whiteley. Chem Soc J 125:587-604 Mr '24

ISOPHENOLPHTHALEIN
Isophenolphthalein and some of its derivatives. W. R. Orndorff and W. R. Barrett. Am Chem Soc J 46:2483-97 N '24

ISOPRENE
Abnormal reactions of derivatives of isoprene and of βγ-dimethylbutadiene. L. Claisen and others. Chem Soc J 124 pt 1:1050-2 N '23

ISOQUINOLINE
*Iso*quinoline derivatives; preparation and reduction of *iso*quinoline and its derivatives. R. Forsyth, C: I. Kelly and F. L. Pyman. Chem Soc J 127:1659-67 Jl '25
Synthetical experiments in the *iso*quinoline group. R. D. Haworth, W: H: Perkin, jr. and J: Rankin. Chem Soc J 127:1434-62 Je '25
Synthetical experiments in the *iso*quinoline group; synthesis of substances allied to oxyberberine. R. D. Haworth, W: H: Perkin, jr. and H. S. Pink. Chem Soc J 127: 1709-23 Jl '25

ISOSTASY
Bearing of the theory of isostasy on some major geological problems. W: Bowie. il diags maps J Fr Inst 198:181-97; Bibliography. 197-200 Ag '24
Establishment of isostasy. J: F. Hayford. W Soc E J 29:350-9; Discussion. 360-2 S '24
Geological implications of the doctrine of isostasy. A. C. Lawson. Nat Research Council Bul v 8, pt 4:1-22 Je '24
Gravity results in the Mackenzie basin. A. H. Miller. Am J Sci 5th ser 7:411-12 My '24
Interpretation of the isostatic anomaly. F. A. Melton. Am J Sci 5th ser 10:166-74 Ag '25
Isostasie und schweremessungen; ihre bedeutung für geologische vorgänge, by A. Born. Review by W. D. Lambert. Am J Sci 5th ser 8:90-8 Jl '24
Isostasy in Holland. W: Bowie. Am J Sci 5th ser 7:405-10 My '24
Untersuchungen uber schwerkraft und isostasie, by W. Heiskanen. Review, by W. D. Lambert. Am J Sci 5th ser 10:82-9 Jl '25

ISOTHIOCYANATES
Mechanism of the reaction of isocyanates and isothiocyanates with the Grignard reagent. H: Gilman and C. R. Kinney. Am Chem Soc J 46:493-7 F '24

ISOTOPES
Atomic weights and isotopes. T. W: Richards. Chem R 1:1-37; Bibliography. 37-40 Ap '24
Atoms and isotopes; abstracts. F. W. Aston. Engineer 137:637-8 Je 6 '24; Chem Age (Lond) 10:592 Je 7 '24; Elec R (Lond) 94: 947-8 Je 6 '24; Engineering 117:770-1 Je 13 '24; Soc Chem Ind J (Chem & Ind) 43:598-9 Je 6 '24; Blast F & Steel Pl 12:338-9 Jl '24; Brass W 20:302 S '24
Attempted electrolytic separation of the isotopes of chlorine and magnesium. J: E. G. Pilley. Philos Mag 6th ser 49:889-99 My '25
Complexity of the elements. A. S. Russell. Philos Mag 6th ser 47:1121-40; 48:365-78 Je, S '24
Discovery and separation of the isotopes of chlorine and the whole number rule. W: D. Harkins and T. H. Liggett. J Phys Chem 28:74-82 Ja '24
Isotope effect in band spectra. R. S. Mulliken. Phys R 25:119-38, 259-94; 26:1-32, 319-38 F-Mr, Jl, S '25
Isotopes. Soc Chem Ind J (Chem & Ind) 43: 636-7 Je 20 '24
Redetermination of the atomic weight of bromine; the inseparability of the isotopes by fractional crystallisation. P. L. Robinson and H: V. A. Briscoe. diags Chem Soc J 127:138-50 Ja '25

ISOXAZOLES
Action of hydroxylamine and of hydrazine on the aryl monothio amides of carbethoxyethylmalonate. D: E. Worrall. Am Chem Soc J 45:3092-5 D '23

ISOXAZOLINE oxides
Isoxazoline oxides; benzoyl-diphenyl-isoxazoline oxide. E. P. Kohler. Am Chem Soc J 46:1733-47 Jl '24
Isoxazoline oxides; triphenyl-isoxazoline oxide. E. P. Kohler and G. R. Barrett. Am Chem Soc J 46:2105-13 S '24

ITALIANS in the United States
Restriction of immigration. T. A. Rickard. Eng & Min J 117:883-4 My 31 '24
Some aspects of Italian immigration to the United States. A. Stella. 124p Putnam '24

ITALY
See also Architecture, Domestic—Italy; Electric plants (central stations)—Italy; Electricity supply—Italy; Engineering—Italy; Gas industry—Italy; Hydroelectric plants—Italy; Immigration and emigration—Italy; Railroads—Italy; Roads—Italy: Securities—Italy; Warships—Italy

Appropriations and expenditures
Italy's projected budget for 1924-1925. Econ W n s 27:846-7 Je 14 '24

Commerce
British trade with Italy. Engineering 117:501 Ap 18 '24
Existing bases for a larger development of economic relations between Italy and the United States. Econ W n s 29:580-2 Ap 25 '25
Foreign commerce of Italy, January to April, 1924. Econ W n s 28:52 Jl 12 '24
Foreign commerce of Italy in the first half of 1925. Econ W n s 30:376 S 12 '25
Italy's foreign trade in 1924. P. M. Copp. Econ W n s 29:688-9 My 16 '25

ITALY—Commerce—*Continued*
Spain and Italy your competitors and customers. F: Simpich. Nation's Business 12:20-2 Ja '24

See also Cotton trade—Italy; Metal trade—Italy

Description and travel

Things missed and other things. H. Van B. Magonigle. il Am Arch 125:331-6 Ap 9 '24

Economic conditions

British Italian banking corporation, limited; expansion of business during past year; recovery of Italy. Economist 98:640-4 Mr 22 '24

Business and financial conditions in Italy. Comm & Fin Chr 119:2126 N 8 '24

Economic situation in Italy. Engineering 120: 203-4 Ag 14 '25

Francs, the liras, the marks. S. Crowther. il Am Ind 24:34-8 Ap '24; Same. System 45: 491-3+ Ap '24

Italy plans busy industrial future by export development. Am Mach 60:416h Mr 13 '24

Italy's economic and financial recovery. T. W. Lamont. Comm & Fin Chr 120:1543-4 Mr 28 '25

Italy's economic position. L. Einaudi. Economist 99:sup39+ N 29 '24

Italy's economic progress. Moody's Inv Serv 16:61-4 F 7 '24

Italy's financial and economic condition during May. Comm & Fin Chr 121:932-3 Ag 22 '25

Present financial and economic conditions in Italy. Econ W n s 30:335 S 5 '25

Recent striking improvement in the financial position of Italy. Econ W n s 29:557 Ap 18 '25

Sources of the economic crisis in Italy. L. Caselli. Annalist 26:311+, 426 S 11, O 2 '25

See also Debts, Public—Italy; Finance—Italy; Immigration and emigration—Italy; Labor and laboring classes—Italy; Labor laws and legislation—Italy; Money—Italy; Securities—Italy; Taxation—Italy

Foreign relations

Jugoslavia

See Fiume

Industries and resources

Business lessons from present-day Italy. S: Crowther. il System 45:627-31 My '24

Italy's efforts to overcome her raw material deficiencies. P. M. Copp. Econ W n s 29: 259-60 F 21 '25

New Italy; Signor Mussolini's reforms. Elec R (Lond) 94:675-6 Ap 25 '24

See also Agriculture—Italy; Cotton trade—Italy; Dairying—Italy; Dye industry—Italy; Electric industries—Italy; Iron industry and trade—Italy; Iron mines and mining—Italy; Lead mines and mining—Italy; Machine tool industry—Italy; Potash—Italy; Shipbuilding—Italy; Silk manufacture and trade—Italy; Steel industry and trade—Italy; Steel works—Italy; Sugar industry and trade—Italy; Textile industry—Italy; Wool trade—Italy

Navy

Italian naval manœuvres. Engineering 118: 806-7 D 12 '24

Politics and government

Awakening of Italy, by L. Villari. Review. Comm & Fin Chr 120:2611-13 My 23 '25

Public works

Les grands barrages-réservoirs italiens de construction récente ou en construction. il Génie Civil 84:475-7 My 17 '24

ITTNER, William B.
Work of William B. Ittner. G. Study. il plans Arch Rec 57:97-124 F '25

J

JACKHAMMERS. See Rock drills

JACKS
Cam jack for light work. G. Phelps. diag Am Mach 62:894 Je 4 '25; Discussion. J. C. Harper 63:595 O 8 '25

Hecla pulling jack for mine work. il Engineering 119:555 My 1 '25

Smith multiplex pressure jack. il diag Ry Mech Eng 98:698 N '24

Study in engine jacks. L. W. Johnson. il diag Power 62:298 Ag 25 '25

See also Hydraulic jacks

JACKSON, William J., 1859-
Sketch. por Ry Age 79:141, 142-3 Jl 18 '25

JACKSONVILLE, Florida

Harbor

Ports of the nation—Jacksonville. A. J. Stowe. il Am Ind 24:29-31 Jl '24

Rapid transit

Reorganization plan of Jacksonville traction co. Comm & Fin Chr 121:1677-8 O 3 '25

JACQUARD weaving
Jacquards and harnesses, card-cutting, lacing and repeating mechanism. T: Woodhouse. 429p Macmillan '23

JAFFRAY, Clive T., 1865-
President of the Minneapolis, St Paul & Sault Ste Marie, the Duluth, South Shore & Atlantic and the Mineral Range. por Ry Age 75:1004 D 1 '23

JAILS
County jail a school of crime. Nation's Health 7:429-30 Je '25

Modern plan replaces fee system of boarding prisoners. R. M. Kerr. il Nation's Health 7:589-91 S '25

See also Pittsburgh, Pennsylvania—County jail

JAMAICA Bay boulevard
Plant for Jamaica Bay boulevard construction. F. W. Skinner. il diags Concrete 25: 50-4 Ag '24; Same. Munic & Co Eng 67:45-50 Jl '24; Same. Good Roads 67:49-53+ Ag '24

JAMESTOWN, New York
Engineering in the small city. Eng N 94:800-1 My 14 '25

Architecture

All roads led to Charley Haas. M. L. Simmons. il plans Bldg Age 46:77-81 F '24

JANUARY sales
Pepping up January. W. B. Edwards. Ptr Ink 129:17-20 D 25 '24

JAPAN
Japan from within. J. I. Bryan. 288p Stokes '24

Japan year book, 1924-25. Y. Takenobu. 270p Dixie book shop, 140 Greenwich st., New York '24

Japan's contribution to naval architecture; abstracts. F. P. Purvis. Engineering 119:429 Ap 3 '25; Marine Eng 30:341-2 Je '25; Discussion. Engineering 119:425-6 Ap 3 '25

Japan's financial program for the work of reconstruction. Econ W n s 27:90 Ja 19 '24

Our Far Eastern neighbors to the west. G. E. Tripp. Elec J 21:194-6 My '24

Present day impressions of Japan and China. R. S. Hecht. Bankers M 109:243-5+ Ag '24

See also Architecture—Japan; Architecture, Japanese; Budget—Japan; Building—Japan; Electric plants (central stations)—Japan; Electric railroads—Japan; Electricity supply—Japan; Finance—Japan; Geology—Japan; Hydroelectric plants—Japan; Insurance, Life—Japan; Railroads—Electrification—Japan; Railroads—Japan; Street railroads—Japan; Telephone—Japan; Water supply—Japan

JAPAN—*Continued*

Appropriations and expenditures

Japanese government's plans for reducing expenditures. Econ W n s 28:811 D 6 '24; Same. Comm & Fin Chr 119:2484-5 N 29 '24

Commerce

Close economic relations between the United States and Japan. F. R. Eldridge. Econ W n s 27:227 F 16 '24

Foreign commerce of Japan in December and during the year 1923. Econ W n s 27:124 Ja 26 '24

Foreign commerce of Japan in December and during 1924. Econ W n s 29:158-9 Ja 31 '25

Foreign commerce of Japan in March and the first quarter of 1925. Econ W n s 29:556 Ap 18 '25

Foreign commerce of Japan in the first six months of 1925. Econ W n s 30:124 Jl 25 '25

Japan's domestic and foreign trade situation. Econ W n s 30:333-5 S 5 '25

Japan's enlarged market for American goods. P. K. M. Thomas. Ptr Ink 126:97-100+ Ja 24 '24

Japan's grave export trade problems. F. C. Chappell. Annalist 23:605+ My 26 '24

Japan's invisible trade balance in 1924. Econ W n s 30:16 Jl 4 '25

No trade threat in Japanese exclusion. C: Hodges. Annalist 23:709+ Je 23 '24

What Japan will buy from American manufacturers. M. Hanihara. Ptr Ink 126:157-8+ Mr 6 '24

See also Cotton trade—Japan; Silk manufacture and trade—Japan

Earthquake, 1923

Comments on structural damage. il Eng N 91: 1048-51 D 27 '23

Damage done to power equipment by the earthquake in Japan. Power 62:189-90 Ag 4 '25

Earthquake and fire in Tokio. H. Nishihara. il map Eng & Min J 116:1035-6 D 15 '23

Earthquake damage to Japanese government railways. M. Nawa. map Eng N 91:1047-8 D 27 '23

Earthquake in Japan. Electrician 95:148-9 Ag 7 '25; Elec R (Lond) 97:394-6 S 4 '25

Earthquake in Japan. J. S. Ruble. il Am Concrete Inst Pro 20:210-20 '24

Earthquake-resistant construction: suggestions from Tokyo. R. F. Moss. Eng N 95:183-4 Jl 30 '25

Effect of the earthquake on the principal industries of Japan. Econ W n s 27:550-1 Ap 19 '24

Extent of damage to Japanese electric railways by the earthquake. S. Sano. il Elec Ry J 62:1066-7 D 22 '23

Great earthquake in Japan. T. W. T. Tuckey. il Engineering 116:669-71 N 30 '23

How Iwaki told the world. S: Reber. il Wireless Age 11:17-18+ D '23

How Japanese business met the test. M. R. Lloyd. il Am Exporter 94:9-14+ F '24

How structures withstood the Japanese earthquake and fire. H. M. Hadley. il Am Concrete Inst Pro 20:188-209 '24

Japan railway tunnels and the earthquake. Eng N 92:559 Ap 3 '24

Japan studies rebuilding plans. I. Takano. il Iron Tr R 73:1721-3 D 27 '23

Japanese earthquake of 1923; effects on the Tokio gas company. il Gas J (Lond) 170: 231-3 Ap 22 '25

Japan's earthquake and fire. M. M. Kitasato. il map Nation's Health 6:86-8 F '24

Japan's tragic story. S. Shozo. il Am Soc Heat & V E J 29:731-2 D '23

Quake damage to water supplies of Japanese railways. M. Mawa. Eng N 93:986 D 18 '24

Tokyo company lost customers, property and machinery, yet produced gas quickly after disaster. il Gas Age 53:900+ Je 28 '24

Die zerstörung elektrischer anlagen in Japan durch das erdbeben. il Elektrotech Zeit 45: 76-7 Ja 31 '24

See also Earthquakes and building; Insurance, Fire—Japan

Economic conditions

American exporter; Japanese number. Am Exporter 94:7-22+ F '24

Commercial and industrial position in Japan. Engineering 120:149 Jl 31 '25

Economic problems of Japan as diagnosed by Japanese financial authorities. Econ W n s 28:799-802 D 6 '24

Japanese commerce and industry. G. B. Sansom and W. J. Davies. Elec R (Lond) 95:752-3 N 14 '24

Japanese government's plans for permanent reconstruction in the earthquake area. Econ W n s 28:771 N 29 '24

Japan's electrical machinery needs outlined. G. E. Tripp. Am Mach 60:344a F 28 '24

Japan's progress after earthquake. Comm & Fin Chr 118:145 Ja 12 '24

Japan's rapid recovery from disaster. Am Mach 60:350 Mr 6 '24

See also Budget—Japan; Cooperation—Japan; Debts, Public—Japan; Finance—Japan; Labor and laboring classes—Japan; Money—Japan; Prices, Wholesale—Japan; Taxation—Japan; Wages—Japan

Foreign relations

United States

Ambassador Hanihara denies charges of veiled threat in protest against Japanese restrictions in immigration bill. Comm & Fin Chr 118:1993-4 Ap 26 '24

Attitude of Japanese toward immigration act. R. S. Hecht. Comm & Fin Chr 118:3162-3 Je 28 '24

No trade threat in Japanese exclusion. C: Hodges. Annalist 23:709+ Je 23 '24

Protest of Japanese ambassador against restrictions in immigration bill—reply of Secretary Hughes. Comm & Fin Chr 118:1854-5 Ap 19 '24

Protest of Japanese government against exclusion provision of immigration act. Comm & Fin Chr 118:2778-9 Je 7 '24

Reply of United States to Japanese protest against exclusion provision of immigration act—upholds right of Congress to control immigration. Comm & Fin Chr 118:3038-9 Je 21 '24

War, or permanent friendship with Japan? T. Matsudaira. Ptr Ink 131:3-4+ Je 25 '25

Industries and resources

Japan's industrial progress since the beginning of the twentieth century. P. P. Steintorf. Econ W n s 30:223-4 Ag 15 '25

Metal industries of Japan. E. V. Pannell. il Metal Ind 21:431-2 N '23

Power plant development in the Orient. W. C. Heckerath. Power Pl Eng 29:554 My 15 '25

Yankee builders aiding Japan. J. S. Ruble. Am Ind 24:39-41 Ap '24

See also Chemical industries—Japan; Dye industry—Japan; Electric industries—Japan; Gas industry—Japan; Gold mines and mining—Japan; Iron industry and trade—Japan; Machine tool industry—Japan; Machinery industry—Japan; Mines and mineral resources—Japan; Petroleum industry and trade—Japan; Rubber industry and trade—Japan; Steel industry and trade—Japan; Textile industry—Japan; Wool trade—Japan

Navy

Japanese naval aims. Engineering 119:769-70 Je 19 '25

JAPANESE architecture. See Architecture, Japanese

JAPANESE bonds. See Bonds, Government—Japan

JAPANESE in California
Legislation against the oriental farmer. I. Borchers. J Land & Pub Util Econ 1:509-12 O '25

JAPANESE in the United States
Japanese exclusion. J. E. Johnsen, comp. Ref Shelf 3:1-134 [bibliog. p. 15-31] no 4 '25

JAPANNING
Cleaning metal for japanning. H. J. Gray. il plans Brass W 21:214-15 Je '25
Design of walls for japanning ovens. G. Lefebvre. Am Mach 61:785 N 13 '24
Driers: simple and compound. E. Perry. Oil Paint & Drug Rep 105:20+ Ja 21; 20+ Ja 28 '24
Electric japanning. H. Allen. Brass W 21: 169-70 My '25
Japanning oven temperature automatically controlled. C. S. Wadhams. diag Metal Ind 23:102 Mr '25
Japanning ovens. E. A. Phoenix. Brass W 21:88 Mr '25
Practical japanning of metal parts. C. W. Gammons. il Factory 35:620+ O '25
Uses of gas in the automobile industry. A. B. Greenleaf. Automotive Ind 51:476 S 11 '24
Water japan; patent. Chem Age 32:243 My '24
What gas does in baking japan on ranges. J. E. Bullard. il Gas Age 55:883-4 Je 20 '25
See also Varnish and varnishing

JARDINE, William M.
President Coolidge nominates Dr William M. Jardine of Kansas to be Secretary of agriculture after March 4. Comm & Fin Chr 120:899 F 21 '25

JARROLD family
House of Jarrolds; Norwich, England. Inland Ptr 73:576 Jl '24

JAVA
See Advertising—Java; Ice industry—Java; Railroads—Electrification—Java

JAWS
Diseases
Necrosis of the jaw in workers employed in applying a luminous paint containing radium. W: B. Castle and others. J Ind Hygiene 7:371-82 [bibliog. p. 381-2] Ag '25; Abstract. Monthly Labor R 21:1091-3 N '25

JEFFERSON, Thomas
Monticello. F. Kimball. il Am Inst Arch J 12:174-81 Ap '24
Thomas Jefferson and the arts. Am Inst Arch J 12:454-5 O '24

JEFFERSON & Southwestern railroad
I.C.C. objects to control by coal company. Ry Age 76:1154 My 10 '24

JELLY
Effect of calcium chloride on acid-sugar-pectin gels. E. G. Halliday and G. R. Bailey. Ind & Eng Chem 16:595-7 Je '24
Some unresolved factors in jelly strength determination. S. E. Sheppard and S. S. Sweet. diags Ind & Eng Chem 16:593-5 Je '24
See also Colloids; Pectins

JENKINS, Edward Hopkins
American contemporaries. E. M. Bailey. Ind & Eng Chem 17:874 Ag '25

JERSEY CITY, New Jersey
Two disastrous fires in Jersey City. il Safety Eng 48:256-9 D '24

JET condensers. See Condensers (steam)

JET propulsion
Jet propulsion for airplanes. E. Buckingham. U S Nat Advisory Com for Aeronautics 1923:75-90 '24

JETS
Air and water jet cleans concrete surface for next pour. il diag Eng N 93:351 Ag 28 '24
See also Steam jets

JETTIES
Blocks for jetties made without molds. E. A. Bethel. il Concrete 25:59-60 Ag '24; Same abr. Eng & Contr (W W) 61:1321-2 Je 11 '24
New jetty and equipment, Fresh Wharf, London bridge. il diags plan Engineering 116: 702-5 D 7 '23
Projet de traversée du Pas-de-Calais au moyen d'une double jetée formant chenal et de viaducs pour routes et voies ferrées. J. Jaeger. il diags map plan Génie Civil 86: 457-63 My 9 '25
See also Breakwaters

JEWEL tea company
Our gains from balanced organization. M. H. Karker. Factory 34:411-13+ Mr '25

JEWELRY
Jewelry to fit every purse. C. Bird. il Am Exporter 95:22-5 Jl '24
See also Precious stones

Manufacture
Chemistry and jewelry making. C. M. Hoke. il Metal Ind 23:153-4 Ap '25
Development of some jewelry enamels. H. G. Wolfram and W. N. Harrison. Am Cer Soc J 7:857-67 D '24
Gold in jewelry work. H. W. Ostby. Brass W 20:58 F '24
Jewelry and novelty finishes. E. L. Tannert. Metal Ind 23:228-9 Je '25
Manufacture and use of solder wire. H. M. Horldt and W. G. Bihler. diags Metal Ind 23:274-6 Jl '25
Methods for the recovery of platinum, iridium, palladium, gold, and silver from jewelers' waste. C. W. Davis. U S Bur Mines Tech Pa 342:1-14 '24
Production of an antique white gold finish without the use of platinum chloride. Brass W 21:100 Mr '25

JEWELRY stores
Symposium on store and show-window lighting; semi-exclusive jewelry store. D. W. Atwater and others. plans Illum Eng Soc 20:352-80 Ap '25

JEWELRY trade
Holiday demand stimulates jewelry trade. Dun's R 32:8-9 N 22 '24
Increase noted in distribution of jewelry. Dun's R 33:8-9 Mr 28 '25
Jewelry industry fairly well employed. Dun's R 32:8-9 Jl 26 '24
Jewelry trade rather quiet at present. Dun's R 32:8+ Mr 29 '24
Lessened activity in the jewelry trade. Dun's R 33:8-9 Jl 25 '25
What is the future of the retail store? J. R. Sprague. Ptr Ink M 10:22-4+ F '25

Advertising
Ostby and Barton tell retailers a thing or two about jobbers; manufacturing jewelers use business papers. Ptr Ink 126:69-70 F 28 '24
Uncovering the treasure-trove of jewelry trade advertising. il Ptg Art 44:351-6 D '24

Law
The platinum-palladium controversy in its relation to the jewelry industry. C: Engelhard, comp. 186p Charles Engelhard, Baker & co., inc., Newark, N.J. '24

JEWS in the United States
Part played by Jews in country's history from earliest colonial times. C. Coolidge. Comm & Fin Chr 120:2499-2500 My 16 '25

JIGS
Applying jigs and fixtures to engine-block machining. J. G. Moohl. il Soc Auto Eng J 17:323-4+ O '25; Same, without il. Am Mach 63:584-5 O 8 '25; Same. Mach 32:179 N '25
At the Ansaldo plant in Italy. W. E. Irish. il Am Mach 62:659-63 Ap 23 '25
Automotive jigs that save time. J. G. Moohl. diags Mach 31:640-3 Ap '25
Drill jig for aluminum casting. A. T. Gregory. diag Mach 31:954 Ag '25
Drill jig for malleable-iron casting. H. F. Ruehl. diags Mach 31:614 Ap '25
Drill jigs with basins for coolant. C. T. Ketz. diags Mach 31:307-8 D '24

JIGS—*Continued*
Efficient indexing jig. F. Waldo. diags Am Mach 63:360-1 Ag 27 '25
Essentials of the modern drill jig. S. W. Brown. Am Mach 63:58 Jl 9 '25
Estimating the cost of jigs and fixtures. W: F. Sandmann. diag Mach 31:427-8 F '25
Jig for babbitting locomotive crossheads. C. G. Williams. diags Am Mach 63:241 Ag 6 '25
Jig for boring low pressure cylinder heads. J. H. Hahn. diag Ry Mech Eng 98:688 N '24
Jig for drilling and tapping shaft collars. B. Devereaux. diags Mach 32:53 S '25
Jig for drilling, counterboring and trepanning. J. Williams. il Am Mach 62:170 Ja 22 '25
Jig of unusual size for assembling automobile bodies. il Mach 32:45 S '25
Jigs and dies to reduce shop costs. C: Gordon. il Elec Ry J 64:1023-7 D 20 '24; Same. Am Mach 62:55-8 Ja 8 '25
Jigs and fixtures. F. U. Baker. diags Ry Mech Eng 98:691-2 N '24
Jigs expedite multiple drilling. il Elec Ry J 65:335-6 F 28 '25
Jigs for drilling parts for engineers' transit. R. Mawson. il Mach 30:426 F '24
Jigs for irregular-shaped automobile parts. J. G. Moohl. diags Mach 32:133-6 O '25
Jigs for use on automatic drilling machines. I. Svidlo. il diag Am Mach 60:264-5 F 14 '24
Lowering costs with a jig boring machine. il Mach 32:117 O '25
Making inexpensive jigs. S. W. Brown. diag Mach 31:898-9 Jl '25
Matrix jigs for slender castings. O. S. Marshall. il diags Mach 30:800-1 Je '24
Pratt & Whitney jig-boring machine improved design. il Am Mach 62:554 Ap 2 '25
Principles underlying some automobile jigs. K. E. M. Karlson. il diags Am Mach 62:229-32 F 5 '25
Proportions for U-lugs for jigs and fixtures; reference-book sheet. diags Am Mach 63:597 O 8 '25
Rapid-action jig latches; reference-book sheet. Am Mach 63:325 Ag 20 '25
Simple jig for odd-shaped work. C. H. French. il diags Am Mach 61:1010 D 25 '24
Temporary jigs and fixtures. S. W. Brown. diags Mach 31:292-3 D '24
Two quick-acting jigs. il diags Mach 30:448-9 F '24
Using sub-tables to facilitate handling box jigs. W: F. Sandmann. diags Mach 31:474-5 F '25

JIGS (mining)
What anthracite region is doing to make fine sizes of coal more readily salable. F. H. Kneeland. diags plan Coal Age 25:673-5 My 8 '24

JITNEY buses
Hauling workers at Ford headquarters. plan Bus Transportation 2:561-3 D '23
Jitney bus promotions. Aera 12:1768-70 My '24
Jitneys meet doom in Birmingham, Ala. Elec Ry J 62:1097-8 D 29 '23

Regulation
Atlanta regulates jitney. Elec Ry J 65:234 F 7 '25
Georgia interurban suspension lifted. Elec Ry J 65:197 Ja 31 '25
Jitney ordinance in Detroit unconstitutional. Elec Ry J 63:48 Ja 5 '24
Jitneymen find law works; Springfield, Mass. Aera 12:2075-6 Jl '24
Jitneys lose in Youngstown. Aera 12:2065-6 Jl '24
Jitneys made a political issue in Springfield, Mass. Elec Ry J 64:857-8 N 15 '24
Jitneys regulated in Terre Haute. Elec Ry J 65:480 Mr 21 '25
Public service motor vehicles. R: T. Higgins. Aera 12:1744-9 My '24
Springfield ousts jitneys. Aera 12:1537-9 Ap '24

JIVARO Indians
Grisly war trophies. A. B. Skinner. il Sci Am 133:172-3 S '25

JOB analysis
Analytical study of production jobs. V. S. Karabasz. Ann Am Acad 119:80-4 My '25
Employee specifications. P. M. Atkins. Ind Management 68:115-18 Ag '24
Job analysis and its use; report of committee. 16p Am. management assn., 20 Vesey st., New York '24
Job analysis promotes safety. J: J. Connors. Elec Ry J 64:773 N 1 '24
Job generalization. B. F. Schauffler. Am Management R 13:5-6 Ap '24
Planning the repetitive manufacture of automobile wheels. W: B. Ferguson. il chart diags Management & Adm 7:31-8 Ja '24
What is a skilled man? M. R. Lott. Ind Management 69:179-82 Mr '25

See also Classification of positions

JOB work
Estimating contract work. D. S. Cole. Ind Management 68:373-6 D '24
Flexible method of production planning for the job shop. E. W. Palmer. Factory 32: 321-4+ Mr '24
Handling the jobbing order. E. W. Leach and J. F. Koch. Am Mach 61:603-7 O 16 '24
How to estimate machine shop costs. A. A. Dowd. diags Am Mach 62:543-5 Ap 2 '25
Job shop dilemma. D. S. Cole. Ind Management 68:133-4 S '24
Job work manufacturing problems. E. W. Leach and J. F. Koch. Am Mach 61:411-13 S 11 '24
Returned goods in the jobbing plant. E. W. Leach and J. F. Koch. Am Mach 61:757-9 N 13 '24

See also Typesetting—Jobwork

JOBBERS
Acquaintance with your jobber worth building. H. A. Call. Sanitary & Heat Eng 104: 176-7+ S 18 '25
Advertised brands gain strength as jobber system changes. G. A. Nichols. Ptr Ink 132: 109-10+ Jl 9 '25
Becoming effective. H. A. Call. Sanitary & Heat Eng 103:326-7 My 15 '25
Boyce-ite promoters seek to sell jobbers on contract. Nat Pet N 16:61+ S 3 '24
Can a wholesale business grow too large? L. D. H. Weld. il System 46:267-9 S '24
Can cotton goods marketing chain be shortened? L: Bader. Textile World 68:1021-2 Ag 22 '25
Effective use of jobbers and business analysis. Automotive Ind 53:667-9 O 15 '25
Electrical jobbers' margins. W. R. Herstein. Elec W 86:37-8 Jl 4 '25
Five ways to win jobbers' enthusiasm. Ptr Ink 126:25-6+ Mr 20 '24
Fundamentals in relationship between refiner and jobber. H. L. Deming. Nat Pet N 17: 75-7+ N 4 '25
Getting real help from the wholesaler. F. L. Scott. Ptr Ink 125:25-8 N 8 '23
Getting the jobber on your side. Ptr Ink 128: 45-6+ S 18 '24
Getting the salesmen to push a general cooperative plan; increasing activity of jobbers. H: Burwen. Ptr Ink 125:65-6+ N 22 '23
Has the Pacific coast jobber problems that are his alone? E. A. Kincaid. J Elec 52:128-31 F 15 '24
How much attention must industrial advertisers give the jobber? R. Perry. Ptr Ink M 10:43-4 My '25
How 112 jobbers cut down on returned goods evil. G. A. Nichols. Ptr Ink 131:97+ Ap 30 '25
How Republic brass won a place in the sun with jobbers. Sales Management 8:881-2 Je 13 '25
How to compete when goods and prices are uniform. Ptr Ink 130:77-8 F 19 '25
How to cut wholesale selling costs. J. True. Ptr Ink M 8:17-18+ Je '24

JOBBERS—*Continued*
How to use the jobber in distributing parts and accessories. Automotive Ind 51:714-17 O 23 '24
Investing time with your jobber. H. A. Call. Sanitary & Heat Eng 104:206-7 O 2 '25
Is it right for a jobber to pay a bonus on long-profit lines? L. W. Giellerup. Sales Management 7:1865-6 D '24
Is the exclusive jobber system a load on advertising? Ptr Ink 128:73-4 Ag 14 '24
Is this the way to get wholesalers' cooperation? Ptr Ink 132:81-4 Jl 16 '25
Is uniform plan of distribution best? E. W. Leach. Ptr Ink 131:25-6+ Je 25 '25
Is your sales area limited to a day's journey? C: G. Muller. Ptr Ink 129:105-6+ O 9 '24
Jobber co-operation—how can you get it? D. Gridley. il Ptr Ink M 9:25-6+ Jl '24
Jobber service—what is it? and what is it worth? H. A. Call. Sanitary & Heat Eng 103:143-4 Mr 6 '25
Jobbers complain of manufacturers' competition. Textile World 67:3278-9 My 16 '25
Jobber's obligation to contractor—vice-versa. H. A. Call. Sanitary & Heat Eng 103:286-7 My 1 '25
Jobbers' obligation to the manufacturer. H. A. Call. Sanitary & Heat Eng 103:216-17 Ap 3 '25
Jobber's right to influence manufacturers not to sell chain stores. Ptr Ink 126:145-6+ Ja 10 '24
Jobbers would throw their business to refiners without stations. Nat Pet N 17:67-8 Ap 15 '25
Making secondary distribution more economical. A. R. Mogge. Ptr Ink 131:117-21 Ap 9 '25
Manufacturers' obligation to the jobber and contractor. H. A. Call. Sanitary & Heat Eng 103:72-3+ F 6 '25
More discoveries about wholesale grocers. Ptr Ink 132:10+ Ag 20 '25
New deal on compensating wholesale distributors. F. D. Bristley. Ptr Ink 129:8+ N 27 '24
New help for the nationally advertised line; cash-and-carry wholesaler. Ptr Ink 128:3-4+ Jl 31 '24
Order takers turned salesmen ring up bigger profit for Merrell. D. D. Lukens. Sales Management 8:149-50+ Ja 24 '25
Ostby and Barton tell retailers a thing or two about jobbers; manufacturing jewelers use business papers. Ptr Ink 126:69-70 F 28 '24
Our financing takes care of itself; Newark electrical supply company. O. F. Rost. il System 47:161-3+ F '25
Pithy paragraphs from a wholesaler to manufacturers. R. Tenk. Ptr Ink 131:53-4+ My 28 '25
Position of the jobber in the distribution system. E. A. Kincaid. charts J Elec 52: 50-4 Ja 15 '24
Private brands the barrier to harmony in grocery field. A. E. Haase. Ptr Ink 132:33-4+ Ag 13 '25
Questionnaire as a means of instructing the retailer; how National lamp works gave its agents ideas. Ptr Ink 126:157-8 Ja 17 '24
Relationship of seller and buyer. J. Bramhall. Textile World 65:3150+ My 10 '24
Sample kit that stimulates the jobber's salesman. H. M. Dana. Ptr Ink M 9:100+ Jl '24
Service big factor in jobbing. J: D. Knox. il Iron Tr R 77:433-5 Ag 20 '25
Seven hundred new customers from "lame duck" orders. J: S. McNeal. il Sales Management 6:1065-6+ Je '24
759 jobber salesmen attend manufacturers' sales convention; Western company has jobber co-operation. C. B. Larrabee. Ptr Ink 128:109-10+ Ag 7 '24
Shyster jobber is a barnacle on the industry. H. A. Call. Sanitary & Heat Eng 101: 31-2, 102-3, 167-8, 238-9, 302-3+, 387-8 Ja 25, F 22, Mr 21, Ap 18, My 16, Je 13 '24
Southern wholesaler's problems. N. H. Johnson. Textile World 65:3603+ My 31 '24
Spotlighting the product for key jobbers. Ptr Ink 127:3-4+ Je 26 '24
Successful distribution through exclusive wholesalers. Harvard Business R 3:112-15 O '24
Survey of merchandising trends in the automotive field. R. W. Johnson. il Sales Management 9:79-80+ Jl 25 '25
Survey of merchandising trends in the drug field. R. W. Johnson. Sales Management 8: 661-3+ My 2 '25
Survey of merchandising trends in the dry goods field. R. W. Johnson. il Sales Management 8:863-4+ Je 13 '25
Survey of merchandising trends in the grocery field. R. W. Johnson. il Sales Management 9:346-8+ S 19 '25
Thin disguise for price-cutting seen in wholesale buying plan; Rochester jobber goes after retail business. F. R. Otte. Sales Management 9:419+ O 3 '25
Those orders you turn over to jobbers. Ptr Ink 130:3-4+ F 26 '25
Watching the fluctuations in retail and wholesale trade. W. R. Burgess. Credit M 26:8-9 N '24
What does the jobber think of national advertising? C. B. Larrabee. Ptr Ink M 9:31-2+ O '24
What I discovered about wholesale grocers. Ptr Ink 132:17-20 Jl 2 '25
What is proper compensation for the jobber? R. W. Procter. Ptr Ink 133:137-8+ O 29 '25
When manufacturers compete with their own jobbers. Ptr Ink 131:25-6+ My 21 '25
When the jobbers' salesmen are the neck of the sales bottle; Ekco guaranteed strapping. P. Chapman. il Sales Management 8: 797-8+ My 30 '25
Wholesalers—manufacturers' representatives or order takers? H. A. Haring. Ptr Ink M 8:17-18+ F '24
Wholesaler's role in reducing distribution costs. R. Tenk. Ptr Ink 130:103-4+ F 19 '25
Wholesaling also has its wastes. I: S. Paull. il Nation's Business 13:42-3 Ap '25
Why some wholesalers insist on privilege of returning goods they have bought. H. A. Haring. Ptr Ink 127:3-4+ Ap 3 '24
You say jobbers won't push your line? then you'll be interested in the methods and experiences of Breinig brothers who report "Many of our jobbers are our best salesmen." G. M. Breinig. Ptr Ink 132:61-2+ Jl 30 '25

See also Advertising—Jobber cooperation; Marketing; Merchandizing

Advertising

Canadian wholesalers meet attacks with advertising. Ptr Ink 129:98 O 30 '24
How can a wholesaler advertise? C. B. Larrabee. Ptr Ink 129:107-8+ O 16 '24
Jobber advertises products of many manufacturers collectively; Wetmore-Savage company, of Boston. B. G. Priestley. Ptr Ink 126:41-2+ F 28 '24
What independent jobber should know about advertising effectively. C. E. Walters. Nat Pet N 16:23-4 Ag 6 '24

See also Wisconsin independent oil jobbers

Costs

Harvard bureau's cost analysis. Oil Paint & Drug Rep 106:38; Discussion. 43-5 O 1 '24

Stock

This letter plan plugs holes in our jobbers' stocks. K. G. Merrill. Sales Management 8: 392+ Mr 7 '25
This re-order system acts as a perpetual inventory. C. M. Harrison. Ptr Ink M 10: 64+ Je '25

JOBBERS' conventions

Federal Lamp stages a convention to boost jobbers sales. E. H. Shanks. il Sales Management 9:351-2+ S 19 '25

JOBBERS' salesmen. See Salesmen, Jobbers'

JOHANNESBURG consolidated investment company
Johnnies group in 1923. Economist 98:779-80 Ap 12 '24
Meeting, Johannesburg, Nov. 18. Economist 99:1028-30 D 20 '24

JOHN Fritz medal
Ambrose Swasey awarded John Fritz medal. Iron Tr R 74:302 Ja 24 '24; Power 59:194 Ja 29 '24; Am Inst E E J 43:163 F '24; Mech Eng 46:164 Mr '24

JOHNS-MANVILLE, inc., New York
Office building for Johns-Manville, inc. il plans Am Arch 126:373-6, pl 129-35 O 22 '24

JOHNSON, Hiram
Senator Hiram Johnson and business. J: C. O'Laughlin. por Nation's Business 12:54+ Je '24

JOHNSON City, Tennessee
Great industrial progress in and around Johnson City, Tenn. J. R. Gardner. Manuf Rec 88:79 S 17 '25

JOHNSON-Rabeck effect
Isolierstoffe als praktisch brauchbare elektrizitätsleiter. il Elektrotech Zeit 46:1635-8 O 22 '25

JOINT stock land banks. See Land banks

JOINTS
Double tenon increases strength of glued joints. diag Elec Ry J 63:111 Ja 19 '24
Joint mobile, à diaphragme élastique, système Planche. diags Génie Civil 83:465 N 10 '23
Patternmaker relies greatly on dovetail joints. W. E. Ewalt. diags Foundry 53:666-7 Ag 15 '25
Patterns gain strength when proper joints are used. W. C. Ewalt. diags Foundry 53:536-40 Jl 1 '25
La résistance des joints en construction métallique. Decouflé. diags Génie Civil 86: 479-83 My 16 '25
Some properties of soft soldered joints. T. B. Crow. bibliog il diags Soc Chem Ind J 43:65-8, 69-70, Mr 21-28 '24
Sous-pression dans les joints des maçonneries noyées. G. Coullié. diags Génie Civil 86: 111-12 Ja 31 '25

See also Boilers—Joints; Couplings; Electric cables—Joints; Glass—Joining to metal; Glue; Packing; Pipe joints; Rail joints; Riveted joints; Welding

JOINTS, Riveted. See Riveted joints

JOINTS, Universal
Dies for producing a universal joint boot. N. T. Thurston. il diags Mach 30:253-6 D '23
Easily made universal joint. W. F. Sandmann. diag Am Mach 60:785 My 22 '24
Inspection gages for truck universals. il Am Mach 62:742-3 My 7 '25
New universal joint has uniform motion in all positions. diags Automotive Ind 51:331 Ag 14 '24
Universal joint of simple construction. W: F. Sandmann. diags Mach 31:308 D '24

JOISTS
Why should wood joists or brick-bearing walls be used in modern school buildings? A. R. Reilly. plans Concrete 23:227-9 D '23

JOLITE. See Tool steel

JONES & Lamson machine company
Development of machine tools in New England. G. Hubbard. il diag Am Mach 60:951-5 Je 26 '24

JORDAN, Edward S.
Jordan knew he could do it—and he did. O. D. Foster. por Forbes 14:15-17+ Ap 12 '24

JOULE, James Prescott, 1818-1889
Sketch. E. C. Smith. por Power 60:137, 139-40 Jl 22 '24

JOULE effect (in rubber)
Joule effect. R. W. Lunn. Soc Chem Ind J 44:247-51; Discussion. 251-3 My 22 '25

JOULE-THOMSON effect
Evidence of association in carbon dioxide from the Joule-Thomson effect. F: G. Keyes. Am Chem Soc J 46:1584-92 Jl '24
Experimental study of the Joule-Thomson effect in carbon dioxide. E. S. Burnett. diag Phys R 22:590-616 D '23
Joule-Thomson effect for helium. J: H. Perry. J Phys Chem 28:1108-12 O '24
Progress report on the Joule-Thomson effect. H. N. Davis. charts Mech Eng 46:85-7+; 47:107-8 F '24, F '25
Progress report on work at Harvard university on the Joule-Thomson effect. R. V. Kleinschmidt. Mech Eng 46:84-5 F '24
Report of progress in steam research at Harvard university. R. V. Kleinschmidt. Mech Eng 47:104 F '25

JOULE'S law
Joule's law of electric heating: an historical sketch. W. W. H. Gee. il Engineer 138: 519-20 N 7 '24
Mechanical equivalent of heat; Joule's first measurements. W. W. H. Gee. diags Engineer 139:426-8, 516 Ap 17, My 8 '25

JOURNALISM
Chats on feature writing. H. F. Harrington. 611p **Harper '25**
Journalism week, 1925. Missouri U Bul v 26, no 27:1-88 '25

See also Authorship; Editorials; Editors; Newspaper ethics; Newspapers; Reporting

Bibliography
Journalism, a bibliography. C. L. Cannon, comp. N.Y. public library, New York '24
William L. Sayer collection of books and pamphlets relating to printing, newspapers, and freedom of the press. 2v Free public library, New Bedford, Mass. '14-'20

Study and teaching
Schools and journalism and the newspaper library. H. B. Center. Special Lib 16:316-17 O '25

JUGOSLAVIA

See also Bonds, Government—Jugoslavia; Debts, Public—Jugoslavia; Railroads—Jugoslavia; Unemployment—Jugoslavia

Commerce
Foreign trade of Jugoslavia. Economist 100: 1180, sup 43 Je 13, 27 '25

Economic conditions
Jugoslavia; exchange movements, new government's programme. Economist 99:317-18 Ag 23 '24
Jugoslavia in 1923. D. F. Andricevic. Bankers M 109:60-3 Jl '24
Jugo-Slavia on the road to prosperity. Moody's Inv Serv 16:321-4 Ag 21 '24

JUGS

Manufacture
Better design for a jug mold clinch. P. E. Cox. diags Am Cer Soc J 6:1230-1 D '23

JURY
Jury trial in labor contempt cases. Bradstreet's 52:685 O 25 '24
Jury trials for contempt under the Clayton act. Monthly Labor R 19:1362-4 D '24
Rights of strikers defined. Index p 10-11 N '24
United States Supreme court rules that Federal courts cannot deny jury trials in contempt cases in labor disputes. Comm & Fin Chr 119:1920-1 O 25 '24

JUSTICE, Administration of
Administrative justice. R. H. Smith. Monthly Labor R 18:945-54 My '24

JUTE
Cellulose of jute. A. Lehne and W. Schepmann. Soc Dyers & Col J 41:112-13 Mr '25
Indian government's preliminary forecast of the 1924 jute acreage. Econ W n s 28:123 Jl 26 '24
Indian jute exports. Textile World 67:1260+ F 14 '25
Indian jute mill profits. Economist 98:866-7 Ap 26 '24

JUTE—*Continued*
Management of industry in India. R. A. Packard. Ind Management 70:162-4 S '25
Relative merits of cotton and jute cement sacks. R. J. Morris. il U S Bur Stand Tech Pa 292:515-36 '25

K

KALISPELL, Montana

Water supply

Kalispell water works notes; kalamein pipe in service 32 years. Pub Works 56:167-8 My '25

KAMALA
Constitution of Indian kamala. S. Dutt. Chem Soc J 127:2044-52 S '25

KANSAS

See also Floods—Kansas; Geology—Kansas; Mines and mineral resources—Kansas; Paleontology—Kansas; Petroleum—Kansas; Petroleum industry and trade—Kansas; Petroleum industry and trade—Oklahoma-Kansas district; Railroads—Kansas; Roads—Kansas; Taxation—Kansas

Court of industrial relations

Constitutionality of industrial court law of Kansas. L. D. Clark. Monthly Labor R 20: 1340-6 Je '25
Construction of Kansas industrial court act. Monthly Labor R 18:1137-40 My '24
Kansas Court of industrial relations. 103p Nat. ind. conference board, New York '24
Report presented at convention of American bar association approving Kansas court of industrial relations. Comm & Fin Chr 119:2140-1 N 8 '24
U.S. Supreme court rules against labor court. Eng N 94:690-1 Ap 23 '25; Comm & Fin Chr 120:1971 Ap 18 '25; Coal Age 27:581 Ap 16 '25
What has happened to the Kansas industrial court. W: L. Huggins. Annalist 25:549 Ap 20 '25

KANSAS CITY, Missouri
First-prize plan for new subdivision in Country club district. Kansas City, Mo. plans Arch Rec 57:570-3 Je '25
Put miscroscope on Kansas City's safety problems. maps Nat Safety N 10:25-6 O '24
What Kansas City buys—and how. il Sales Management 6:581-2+ F '24

Railroads

Industrial sites and trackage. W. R. Armstrong. map Eng & Contr (G C) 64:651-4 S 16 '25
Kaw Valley line is working out extensive freight facilities. il map Elec Ry J 63:839-41 My 31 '24

Rapid transit

Building good employee relations in Kansas City. charts Elec Ry J 63:63-6 Ja 12 '24
Court has Kansas City valuation. Elec Ry J 66:379-80 S 5 '25
Improved methods produce results in Kansas City. Elec Ry J 63:807-11 My 24 '24
Kansas City railways reorganization plan. Comm & Fin Chr 120:2942-3 Je 6 '25; Elec Ry J 65:907-8 Je 6 '25
Reorganization affairs reviewed. Elec Ry J 62:1028 D 15 '23
Reorganization of Kansas City railways ahead. Elec Ry J 65:673 Ap 25 '25

See also Motor bus lines—Kansas City, Missouri

Water supply

Control of sludge level in sedimentation basins. L. B. Mangun. Am Water Works Assn J 13:459-65 Ap '25
Kansas City water-works construction stopped. Eng N 97:742 Ap 24 '24

KANSAS CITY, Mexico & Orient railway
Kansas City, Mexico & Orient railway perfects its organization plans. Ry R 76:743-4 Ap 18 '25

KANSAS CITY power and light company
Annual report—1923. Comm & Fin Chr 118: 1286-7 Mr 15 '24

KANSAS City Southern railroad
Annual report, 24th, 1923. Comm & Fin Chr 118:2839-43 Je 7 '24
Annual report, 25th, for the fiscal year ended Dec. 31, 1924. Comm & Fin Chr 120:3207-11 Je 20 '25
Likely Southwestern rail merger. C: F. Speare. Am Bankers Assn J 17:670+ My '25
Valuation of the Kansas City Southern. Ry Age 76:1777-82 Je 21 '24

KANT, Immanuel, 1724-1804
Immanuel Kant; papers read at Northwestern University on the bicentenary of Kant's birth. 211p Open Court pub. co., 122 S. Michigan av., Chicago '25

KAOLIN
Action of heat on kaolins. Bigot. Chem Age (Lond) 9:sup11 N 17 '23
Alseveor china clay pit. il Chem Age (Lond) 10:sup11-12 Je 21 '24
Alumina from china clay. Chem Age (Lond) 13:sup11 Jl 18 '25
Among the Cornish china clay mines. il Chem Age (Lond) 10:sup8-9 F 16; sup9-10 Ap 19 '24
Chemical study of china clays. Chem Age (Lond) 9:sup10-11 N 17 '23
China clay. D. V. Lowe. Tech Assn Pa ser 8:52-3 '25; Same. Paper Tr J 80:203+ F 5 '25; Same. Paper 35:58+ F 12 '25
China clay and petroleum. Chem Age (Lond) 10:sup9 Mr 15 '24
China clay as refining agent. Chem Age (Lond) 11:sup14 S 20 '24
China clay in rubber. Chem Age (Lond) 11:sup 14 O 18 '24
China clay in tinted papers. Chem Age (Lond) 11:sup14-15 D 20 '24
Cost of refractories from Georgia kaolins. Chem & Met Eng 32:289-90 F 16 '25
Defective colloidal clays. A. B. Searle. Chem Age (Lond) 10:sup8-9 Mr 15 '24
Determination of the value of china clay for finishing purposes. P. Bean. Chem Age (Lond) 10:sup 11+ My 17 '24
Different types of plasticity of clays and kaolins. A. Bigot. Am Cer Soc J 7 (Cer A 3):57-8 F '24
Distribution of kaolin and bauxite of the coastal plain of Georgia. R. T. Stull. il Am Cer Soc J 7:513-22 Jl '24
English and American china clays compared. J. W. Higman. il Chem Age (Lond) 12:sup 8-10 Mr 21 '25
English china clay as paper filler. Chem Age (Lond) 12:sup9 My 16 '25
G.W.R. and Fowey. Chem Age (Lond) 12:sup 10 Ja 17 '25
Important china clay invention. Chem Age (Lond) 11:sup11 N 15 '24
Impurities in china clay. Chem Age (Lond) 13:sup11-12 S 19 '25
Kaolin. Eng & Min J 119:97 Ja 17 '25
Kaolin deposits of Furtei, Sardinia. Chem Age (Lond) 11:sup15-16 S 20 '24
Mattagami china clay deposits give promise of development. Can Chem & Met 8:266 N '24
Refining china clay. Chem Age (Lond) 10:sup 15 Mr 15 '24
Saving filler losses in paper manufacture. Chem Age (Lond) 12:sup 12 Ap 18 '25
Settling of clay suspensions. A. B. Searle. Chem Age (Lond) 10:sup16-17 F 16 '24
Some properties of china clay in refining petroleum. Chem Age (Lond) 10:sup8 Ap 19 '24
Speeding up Cornish china clay. W. Trethewell. il Paper 33:10-11+ N 22 '23
Studies on china clays. Chem Age (Lond) 10: sup16 Mr 15 '24
Uses of kaolin in pharmaceutical chemistry. Chem Age (Lond)10:sup9 Ja 19 '24
Utility of china clay as coating material. Chem Age (Lond) 12:sup8-9 F 21 '25

KAOLIN—*Continued*
Utilization of Georgia kaolins in the manufacture of face brick. R. T. Stull and G. A. Bole. Am Cer Soc J 7:347-58 My '24
What has been the experience in substituting domestic secondary and primary kaolins for English china clays? K: Langenbeck. Am Cer Soc J (Bul) 7:417-23; Discussion. 423-37 N '24

See also Clay

Analysis

Analysis of china clay by washing. diags Chem Age (Lond) 10:sup14-15 My 17 '24

Prices

China clay price war. Chem Age (Lond) 12: sup 10-11 Je 20 '25

China clay prices. H. F. Collins. Chem Age (Lond) 10:sup14 Ja 19 '24

Standards

Standardising china clay. Chem Age (Lond) 13:sup12 O 17 '25

KAOLIN, Liquid
Pipe-lines for liquid china clay. Chem Age (Lond) 12:sup10 Ja 17 '25

KAOLIN, Substitutes for

See also Talc

KAOLIN industry
Britain's china clay resources. Chem Age (Lond) 12:sup11 Ap 18 '25

China clay trade review section. Published in Chemical Age (London) in third issue of each month

English china clay industry. S. P. Bunn. il Paper 33:11-13 Ja 17 '24

Mineral industry of the British Empire and foreign countries; statistics, 1919-1921. 13p Gt. Brit. Imperial mineral resources bur., London '24

New china clay jetty at Fowey. il diags Engineer 137:195-6, 202 F 22 '24

Sacrificing a southern mineral industry. H: M. Payne. Manuf Rec 88:71-2 Ag 20 '25

Tehidy minerals, ltd.; china clay prospects of the company. Chem Age (Lond) 11:sup 14-15 Jl 19 '24

KAOLIN works
China clay works visited. il Chem Age (Lond) 11:sup10-11; 12:sup8-9; 13:sup10-11 O 18 '24, Ja 17, O 17 '25

KAOLINITE
Action of heat on kaolinite and on kaolinitic clays. W. Vernadsky. Chem Age (Lond) 11:sup14-16 N 15 '24

KAPOK
Production and uses of kapok. Comm M 6:14-15 My '24

KATALITE
Katalite; a new substance for coating cylinder walls said to promote fuel economy. Automotive Ind 50:680-1 Mr 20 '24

KATANOL
Katanol W. Am Dyestuff Rep 14:642 S 21 '25

Use of katanol in cotton goods printing. R: Fischer. Am Dyestuff Rep 13:423-7 Je 30 '24; Abstract. Soc Dyers & Col J 40:123-4 Ap '24

KATATHERMOMETER
Determination of the factor of the kata-thermometer. T. C. Angus. bibliog diags J Ind Hygiene 6:20-7 My '24

History and development of the kata thermometer. Brass W 20:79 Mr '24

Investigation of the atmospheric conditions in coal mines by means of the kata-thermometer. H. M. Vernon and T. Bedford. bibliog J Ind Hygiene 6:281-90 N '24

Some kata-thermometer observations in Tonopah mines. R. S. Lewis. il diags Eng & Min J 117:363-6 Mr 1 '24

Value of the kata thermometer in effective temperature studies. M. Ingels. chart Am Soc Heat & V E J 30:453-6 Je '24

KAURI
Kauri gum control. Chemicals 24:18 N 2 '25
New Zealand's fossil gums; kauri. W. M. Myers. Chem & Met Eng 31:663-4 O 27 '24

Notes on oil from kauri copal. A. H. Gill and D. Nishida. Ind & Eng Chem 15:1276-7 D '23

KEARNEY, Nebraska

Water supply

Protecting the underground water supply of Kearney, Neb. H. H. Mole. Eng & Contr (W W) 63:762-4 Ap 10 '25

Water-works improvements at Kearney, Neb. E. L. Ferguson. il Eng N 94:884-5 My 28 '25

KEGS. See Barrels

KEITH, George E., 1850-1920
Responsibility develops men, said George E. Keith; from the recollections of his son and successor, Harold C. Keith. por System 45: 484-5 Ap '24

KELLER, Harry Frederick, 1861-1924
Sketch. P. Maas and A. Henwood. por Ind & Eng Chem 16:529 My '24

KELLY, William, 1877-
Chief engineer, Federal power commission to be director, Department of engineering, N. E.L.A. por N E L A Bul 12:276, 311 My '25; Elec W 85:964 My 9 '25

KELMSCOTT press
Kelmscott press and William Morris, master-craftsman. H. H. Sparling. 177p Macmillan '24

KELP
Carbonization of seaweed. Gas J (Lond) 167: 651 Ag 20 '24

Iodin deficiency in the dietary supplied by use of kelp. J. W. Turrentine. Nation's Health 6:449-51+ Jl '24

Potash from kelp. R. P. Brandt. U S Agric Bul 1191:1-40 '23

Potash from kelp; certain equilibria used in the manufacture of potassium chloride from kelp brines. J. W. Turrentine and H. G. Tanner. Ind & Eng Chem 16:242-8 Mr '24

KELVIN, William Thomson, 1st baron, 1824-1907
Centenary of Lord Kelvin. Engineering 117: 799-801 Je 20 '24; Elec R (Lond) 95:92-4 Jl 18 '24; Electrician 93:64-5 Jl 18 '24

Kelvin and Glasgow. A. Gray. por Electrician 93:35-8 Jl 11 '24

KELVIN'S law
Economies of distribution. J. F. H. Douglas. Elec W 84:1145-8 N 29 '24; Discussion. H. P. Seelye. 85:148 Ja 17 '25

Kelvin and the economics of the generation and distribution of electrical energy. G. Semenza. diags Inst E E J 62:882-94 O '24; Abstract. Electrician 92:541 My 2 '24

Kelvin law a general law in dynamics. E. Hering. Am Inst E E J 44:1025 S '25

KEMMERER, Edwin Walter
Drafting the brains behind the dollar; Americans serving in rôle of financial advisors to foreign countries. R. A. Lewis, jr. por Am Bankers Assn J 16:700 My '24

His specialty is doctoring sick currencies. R. A. Lewis, jr. por Am Bankers Assn J 18:5-8 Jl '25

KEMPITE
Kempite, a new manganese mineral from California. il Eng & Min J 119:3 Ja 3 '25

Kempite, a new manganese mineral from California. A. F. Rogers. diags Am J Sci 5th ser 8:145-50 Ag '24

KENOTRON
Testing with kenotrons. J. Nelson. il Elec R (Lond) 95:969-70 D 26 '24; Discussion. A. C. Gunstone. 96:51 Ja 9 '25

See also Magnetron

KENSICO dam, Kensico, N.Y.
Kensico dam, Kensico, New York; views. Arch Rec 55:55-63 Ja '24

KENTUCKY
Kentucky; statistical table. Manuf Rec 86: 376 pt 2 D 11 '24

See also Coal mines and mining—Kentucky; Geology—Kentucky; Mines and mineral resources—Kentucky; Motor bus lines—Kentucky; Petroleum—Kentucky; Roads—Kentucky

Industries and resources

Manufacturing in Kentucky. Manuf Rec 87:70 My 28 '25

KENTUCKY bus association
Organization meeting, Lexington, July 10-11. Bus Transportation 4:406-7 Ag '25

KEROGEN
Constitution of kerogen. J. W. McKinney. Am Chem Soc J 46:968-79 Ap '24
Investigation of oil shale kerogen by the fractionation of the primary bitumen in high vacuum and by organic extractions. C. O. Blackburn. il charts (Quarterly v. 19, no. 2) 46p Colorado school of mines, Golden, Col. Ap '24

KEROSENE
Characteristics of the hydrocarbons in Mid-continent kerosene. C. R. Wagner. Ind & Eng Chem 16:135-6 F '24; Same. Pet Age 13:26-7 F 15 '24; Same. Inst Pet Tech J 10: 220-4 Ap '24
Consumption of kerosene by states. Survey of Cur Business 34:51 Je '24
Gasoline and kerosene consumption. Am Pet Inst Bul v 5:4 F 29 '24
Kerosene consumption by states. Am Pet Inst Bul v 5:3-4 Mr 7 '24
1923 good year after all. Pet Age 13:16 Mr 1 '24
Some engine experiments with oxidized oils. J. H. James and F. C. Ziesenheim. Am Inst Chem Eng Trans v 14:201-10 '21-'22

See also Carbureters; Gas and oil engines; Petroleum

KEROSENE, Accidents from
Starting fires with kerosene. Safety Eng 48: 234-5 D '24

KEROSENE engines
22/26-hp. four-cylinder paraffin engine with reverse gear. il diags Engineering 119:304-5 Mr 6 '25

KERR effect
Relation between the depolarization of the scattered light and the Kerr effect in liquids. W. H. Martin. diag J Phys Chem 28:1284-90 D '24

KESSLER, George Edward
In memoriam. H. Van B. Magonigle. Am Inst Arch J 12:118-19 Mr '24

KETENE
Ketenic decomposition of ketones; ketene and methyl ketene. C: D. Hurd. Am Chem Soc J 45:3095-3101 D '23
Optimum conditions for the preparation of ketene from acetone. C: D. Hurd and W: H. Tallyn. Am Chem Soc J 47:1427-30 My '25

KETENES
Ketenes in the Friedel and Crafts reaction. C: De W. Hurd. Am Chem Soc J 47:2777-80 N '25

KETONES
Absorption spectra of the vapours and solutions of various ketones and aldehydes. J: E: Purvis. il Chem Soc J 123:2515-21 O '23
Absorption spectra of various aldehydes and ketones and some of their derived compounds. J: E: Purvis. Chem Soc J 127:9-14 Ja '25
Condensation of citral with ketones and synthesis of some new ionones. H. Hibbert and L. T. Cannon. Am Chem Soc J 46:119-30 Ja '24
4-meta-nitrophenylsemicarbazide and certain derivatives. A. S. Wheeler and T. T. Walker. Am Chem Soc J 47:2792-6 N '25
Ketenic decomposition of ketones; acetylacetone, diacetyl and pinacolin. C: D. Hurd and W. H. Tallyn. Am Chem Soc J 47: 1779-82 Je '25
Ketenic decomposition of ketones; ketene and methyl ketene. C: D. Hurd. Am Chem Soc J 45:3095-3101 D '23
Structure of the enolic forms of β-keto-esters and β-diketones. N. V. Sidgwick. Chem Soc J 127:907-9 Ap '25
Use of aliphatic acid anhydrides in the preparation of ketones by the Friedel and Crafts reaction. C. R. Noller and R. Adams. Am Chem Soc J 46:1889-96 Ag '24
X-ray investigation of saturated aliphatic ketones. W: B. Saville and G: Shearer. il Chem Soc J 127:591-8 Mr '25

See also Diketones

KETTERING, Charles Franklin, 1876-
Kettering, the man who runs the fact factory, president of General motors research corporation. C. Patten. por Forbes 14:652-4 S 1 '24

KETTLES, Tea. See Tea kettles—Manufacture

KEYS
Keys that never get lost. K. D. Hamilton. il Factory 32:672 My '24

KEYS and keyways (machinery)
Cutting key slots in piston rods. B. O. Server. il Am Mach 63:363 Ag 27 '25
Device for cutting keyways in eccentric pins. diags Ry Mech Eng 99:516 Ag '25
Equipping a boring mill for cutting keyways. F. A. Thas. il diag Mach 31:137 O '24
Grinding the corners of splines. il Mach 31:837 Je '25
Interchangeable broaches for keyways. C: G. Pfeffer. diags Mach 31:549-52 Mr '25
Keyways in milling cutters. C. J. Oxford. Mach 31:390 Ja '25
Larger keyways in milling cutters. Mach 30: 102; 31:499 O '24, F '25
Sommer & Adams multiple spindle spline hobbing machine. il Am Mach 60:337-8 F 28 '24; Iron Age 113:643-4 F 28 '24; Mach 30:555-6 Mr '24
Whitney keys and keyways (Woodruff system): data sheets. Mach 30:512a, 594a Mr-Ap '24

Standards

Proposed standards for keys and key stock. Mach 30:517 Mr '24
Santa Fé standard nuts and keys. Am Mach 61:718 N 6 '24

KHAKI
Dyeing of olive drab; with discussion. A. A. Claflin. Am Dyestuff Rep 12:941-4+ D 31 '23
Khaki fabrics. J. W. Cox, jr. Textile World 65:1186+ F 9 '24
New khaki-coloring process. diag Am Dyestuff Rep 14:33-4 Ja 12 '25
Primuline and vat colors for the production of fast khaki shades. J. S. Unterweiser. Am Dyestuff Rep 13:160-1; Discussion. 161-3 Mr 10 '24

KIDD, William
Career of William Kidd. W. Woolford. il Bankers M 111:175-81, 335-9 Ag-S '25

KIERS
Kiers; their relation to cotton finishing. R. C. Jefferson. Am Dyestuff Rep 13:787-9 D 1 '24

KIESELGUHR. See Diatomaceous earth

KILAUEA, Mount
Explosive eruption of Kilauea in Hawaii, 1924. T. A. Jaggar and R. H. Finch. il map Am J Sci 5th ser 8:353-74 N '24
1924 eruption of the Hawaiian volcano. H. T. Stearns. il Sci Am 132:242-3 Ap '25
Tidal oscillations in Halemaumau, the lava pit of Kilauea. E. W. Brown. map Am J Sci 5th ser 9:95-112 F '25

KILN drying of wood. See Lumber drying

KILNS
Adaptation of tunnel and car kilns to firing refractories. P. Dressler. il diags Am Cer Soc J 8:43-54 Ja '25
Booth open fire tunnel kiln. il diags Brick & Clay Rec 65:680-3 N 11 '24
Brick at less cost. W. D. Richardson. il diag Am Cer Soc J 7:614-19 Ag '24
Burn brick in direct fired tunnel kiln. il Brick & Clay Rec 64:576-80 Ap 15 '24

KILNS—*Continued*
Burn clay ware in electric tunnel kiln. A. Paoloni. il diags Brick & Clay Rec 67:196-8 Ag 4 '25
Course in pottery at the Pennsylvania museum school of industrial art. E. de F. Curtis. il diags Am Cer Soc J 8:138-42 Mr '25
Cut time of malleable anneal. il chart diag Foundry 52:43-50 Ja 15 '24
Design of kilns and furnaces from model tests. F. H. Norton. il Am Cer Soc J 7:783-94 O '24
Designing bands for round kiln crowns. B. W. Willson. diags Am Cer Soc J 8:154-8 Mr '25
Direct fired car tunnel kiln on roofing tile. C. R. Minton. diag Am Cer Soc J 7:821-3 N '24
Firing refractory brick in a round down-draft kiln with a mechanical stoker. E. E. Ayars. Am Cer Soc J 7:889-94 D '24
Getting the highest return from kiln equipment. J: R. Green. Am Cer Soc J 8:599-604 S '25
How Kier fire brick are made; product is burned in tunnel kiln. il Brick & Clay Rec 67:403-6 S 15 '25
Insulation of periodic kilns. E. A. Phoenix. il diag Brick & Clay Rec 65:112-13+ Jl 22 '24
Kiln room. C. H. Sonntag. Concrete (cement mill sec) 26:75-7; 27:3 Je-Jl '25; Discussion. 27:82-3 N '25
Labor cost of building a kiln. Brick & Clay Rec 67:276 Ag 18 '25
Large kiln for calcium carbide constructed by oxyacetylene welding. il Concrete 24:sup42-3 Mr '24
Lesson in modern manufacturing; refractories by the mile. il Chem & Met Eng 31: 766-8 N 17 '24
Making the kilns do more work. M. R. Robinson. il Brick & Clay Rec 67:478-9 S 29 '25
Manufacturing sewer pipe. E. F. Clemens. Brick & Clay Rec 65:762-3 N 25 '24
Measurement of air supply to rotary kiln. F. Lindstead. diags Concrete (cement mill sec) 25:11-12 Jl '24; Discussion. 26:23 F '25
New idea in kiln construction; holes in bag walls and extra flue. il diags Brick & Clay Rec 65:173 Ag 5 '24
New type flat arch kiln. il diag Brick & Clay Rec 65:832-3 D 9 '24
Northern Pacific improves lumber seasoning facilities. il plans Ry Age 79:126-9 Jl 18 '25
One fire whiteware and art ware through direct fired car tunnel kiln. A. E. Hull, jr. il Am Cer Soc J 7:285-7 Ap '24
Operation data on continuous decorating kiln at Mt. Clemens pottery company. J: T. Jans. il Am Cer Soc J 7:626-9 Ag '24
Operation of direct fire tunnel kilns. V. J. Roehm. diags Am Cer Soc J 8:514-24 Ag '25
Positive heat transfer in tunnel kiln. E. W. Ekstrand. il diag Brick & Clay Rec 66:753-4 My 12 '25
Recent installation of a Harrop tunnel kiln. G. P. Gavin and F. M. Hartford. il Am Cer Soc J 6:1214-18 D '23
Sanitary ware plant with 7 tunnel kilns. il Brick & Clay Rec 65:391-3 S 16 '24
Significance of drafts in down-draft, coal-fired kilns. R. A. Sherman, R. F. Lunger and W. E. Rice. il diags Am Cer Soc J 7: 255-70 Ap '24
Study of kiln losses—an example of value accrued from coöperative research. G: A. Bole. Am Cer Soc J (Bul) 8:352-9 Ag '25; Same cond. Brick & Clay Rec 67:264-5+ Ag 18 '25
Thermal conductivity and some other properties of two commercial, heat-insulating bricks used in kiln construction. A. T. Green. bibliog Gas J (Lond) 167:sup29-31 Jl 9 '24
Tunnel kiln construction. diags Chem & Met Eng 29:1195-7 D 31 '23
Tunnel kiln; list of kilns in the country. bibliog il diags plan Brick & Clay Rec 66:22-36 Ja 6 '25
Tunnel kilns for making brick. S. H. Brockunier. Chem & Met Eng 32:515 My '25
Use of muffle tunnel kilns for the arching of plate glass pots. P. d'H. Dressler and L. T. Strommer. il Am Cer Soc J 8:216-24; Discussion. 224-6 Ap '25
Use of radiation pyrometers on refractory kilns. C: B. Thwing. Am Cer Soc J 8:115-16 F '25

See also Brickmaking; Cement kilns; Drying apparatus; Furnaces; Lime kilns

Firing

Firing with producer gas. C. F. Smith. diags Brick & Clay Rec 63:770-1 N 27 '23
Fuel costs for burning clay ware. Brick & Clay Rec 64:650-1 Ap 29 '24
Further development of an automatic kiln stoker. J: D. Martin. Am Cer Soc J 7:878-84; Discussion. 884-8 D '24
Kiln stokers. J: D. Martin. il Am Cer Soc J 8:396-400 Je '25; Abstract. Brick & Clay Rec 66:348-9 Mr 3 '25
Oxidation of ceramic wares during firing; a quantitative study of the nature of sulphur evolution in kiln-firing. F: G. Jackson. Am Cer Soc J 7:634-42, 656-62 Ag-S '24
Report on stoker fired kiln test. Brick & Clay Rec 63:836-7 D 11 '23
Saving fuel in firing common brick. W. D. Richardson. Am Cer Soc J (Bul) 4:254-60 Je '25

Testing

Combustion in kilns burning refractory ware. R. A. Sherman. diags Am Cer Soc J 7:175-88 Mr '24
Determination of the distribution of heat in kilns firing clay wares. W. E. Rice and R. A. Sherman. Am Cer Soc J 7:738-63 O '24

KINEMATICS
Kinematics. C: L. R. E. Menges. Philos Mag 6th ser 49:579-83 Mr '25
Whirling of shafts. J. Frith and F. Buckingham. bibliog diags Inst E E J 62:107-13 Ja '24

See also Machinery, Kinematics of

KINETIC theory of gases. See Gases, Kinetic theory of

KING, Charles Kelly, 1867-
Portrait. Elec W 83:760 Ap 19 '24

KINGSPORT, Tennessee
No man would leave this small town for big city. J: E. Rosser. il Forbes 16:243-6 Je 1 '25

KINGSVILLE, Texas
Making a town by working together. R. McDaniel. il Nation's Business 12:23 D '24

KINZIE, Robert Allen
Mining engineers of note. por Eng & Min J 120:684 O 31 '25

KIRKSVILLE, Missouri

Water supply

Rehabilitation of small 30-year-old waterworks plant. F. M. Veatch. il Eng N 94:658-9 Ap 16 '25

KIRO-Vox. See Neurophonometer

KIRSCH manufacturing company
More than a factory. K. B. Murray. il diags Bldg Age 46:118-21 N; 118-22 D '24

KITCHEN cabinets
Napanee's flying squadron of resale men. A: Belden. Ptr Ink 125:52+ N 8 '23
Three hundred percent increase in sales in twenty months. F. S. Fenton, jr. Sales Management 7:1459-60 S '24

KITCHEN cars. See Dining cars

KITCHEN utensils
Making the housewife proud of her kitchen C. Frederick. il Am Exporter 94:55+ Je '24
Steam-operated kitchen equipment for hotels, restaurants, hospitals, and other institutions. E. W. Riesbeck. il diags plan Dom Eng 106:20-4+ F 23; 20-4 Mr 8 '24

KITCHEN utensils—*Continued*
Thermal efficiency of gas-fired utensils. E. A. Oster. il Mech Eng 46:719 N '24; Same. Gas Age 54:743 N 22 '24

See also Enameled ware; Tea kettles—Manufacture

KITCHENER, Ontario
Planning of Kitchener and Waterloo, Ont. H. L. Seymour. il map Can Eng 47:125-30 Jl 8 '24

KITCHENS
Efficient kitchen. G. B. Child. 259p Robert M. McBride & co., New York '25
Food service in apartment hotels. A. E. Merrill. il plans Arch Forum 41:265-8 N '24
Make the kitchen pleasant and easy to work in. E. H. Ries. plans Bldg Age 46:64-5 Ag; 69 S; 110-11 D '24
Modern home kitchen: its ventilation requirements. A. L. Greene. il Nation's Health 6:19-21 Ja '24
Planning and equipment of hotel kitchens. A. E. Merrill. il diag plans Arch Forum 39:227-34 N '23
Planning for food service. A. E. Merrill. il plans Arch Forum 42:203-6 Mr '25
Ventilating the kitchen. T: L. Kennedy. il Bldg Age 47:108 Jl '25
Ventilation of offices, kitchens, laundries, and industrial plants. E. W. Riesbeck. diags Dom Eng 108:26-7 Jl 26 '24

See also Ships—Kitchens

Lighting

Better kitchen and house lighting literally brought home in Fresno. il J Elec 55:320-2 N 1 '25
Kitchen lighting unit campaign of Southern California Edison co. J Elec 55:204 S 15 '25
Kitchen lights add $120,000 revenue. M. C. Huse. Elec W 85:106-8 Ja 10 '25
Selling better kitchen lighting. H. H. Courtright. il Elec W 86:571-3 S 19 '25
Selling kitchen lighting units in the spring. J Elec 54:62 Ja 15 '25

KITES
Les cerfs-volants modernes. R. Caillol. il diags Génie Civil 86:130-4 F 7 '25
Man-carrying kites. il Sci Am 132:124 F '25

KJELDAHL method. See Nitrogen—Analysis

KLEIN, Julius
Portrait. Chem Age 31:573 D '23

KLIETSCH, Karl
Inventor of rotagravure. S. H. Horgan. por Inland Ptr 75:64-a, 729 Ap, Ag '25; Correction. 76:584 Ja '26

KLYDONOGRAPH
Instrument records abnormal voltage surges. diags Coal Age 25:816-17 My 29 '24; Elec R (Lond) 94:770 My 9 '24; Power Pl Eng 28:728-9 Jl 1 '24
Klydonograph; an instrument for accurately measuring and recording voltage surges. J. F. Peters. il diags Elec W 83:769-73 Ap 19 '24
Klydonograph and its application to surge investigation. J. H. Cox and J. W. Legg. il diags Am Inst E E J 44:1094-1103 O '25; Abstract. Elec W 86:17-18 Jl 4 '25; Discussion. Am Inst E E J 44:1144-6 O '25
Le klydonographe; appareil enregistreur des surtensions sur les réseaux électriques. il diags Génie Civil 87:253-4 S 19 '25
220-kv. transmission transients and flashovers. R. J. C. Wood. il diag Am Inst E E J 44:1213-16 N '25

KNECHT, E.
Presentation to Dr Knecht, foreign editor of the Journal of the Society of dyers and colorists. Soc Dyers & Col J 41:203-5 Je '25

KNIGHT, Charles Mellen
Sketch. por Chem & Met Eng 30:1014 Je 30 '24

KNIT goods
Cloudy outlook for knit underwear. Textile World 67:1013+ F 7 '25
Color in knitted goods. Textile World 65:2001+ Mr 22 '24
Cost of sewing and seaming. W: Davis. Textile World 67:3287+ My 16 '25
Designing in knitted fabrics. il Textile World 65:2524-5 Ap 12 '24
Dyeing knitted fabrics. H. C. Roberts. Textile World 64:3139+ N '23
Dyeing of cotton knitgoods. J. M. Matthews. Color Tr J 15:125-8 N '24
Export trade in knit goods. W: Davis. Textile World 66:357+ Jl 19 '24
Fabrics knitted from artificial silk. R. Boettcher. Textile Inst J 15:P572-3 N '24
Fibre needs for underwear. W: Davis. il Textile World 65:371+ Ja 19 '24
High wool hinders outerwear. Textile World 67:1017+ F 7 '25
Hosiery, knit underwear, and gloves. N. Kneeland. 126p Shaw '24
Influence of hard water in the bleaching of knitgoods. J. M. Matthews. Color Tr J 14:57-8 F '24
Knit goods industry pioneer rayon consumer. L: R. Keeffe. Textile World 68:1769-71 sec 2 S 26 '25
Knitted-fabric radio horns. L: R. Keeffe. il Textile World 65:3027 My 3 '24
Knitted outerwear cooperation. I. P: Cohen. Textile World 65:943 F 2 '24
Making goods to a fixed quality. Textile World 66:2161+ O 18 '24
Manufacture of warp knit gloves. G. R. Merrill. il Textile World 66:353+, 995+ Jl 19, Ag 23 '24
Microscopical vision in the study of knitted goods. A. K. Johnson. il Am Dyestuff Rep 14:209-13 Ap 6 '25
Plated fabrics on tricot warp machines. diags Textile World 67:1387+ F 21 '25
Proportions of yarn in fabric. Textile World 66:1003+ Ag 23 '24
Ratio of yarn size to fabric weight. R. Presgrave. il diags Textile World 68:1035+ Ag 22 '25
Record outerwear volume. Textile World 65:941+ F 2 '24
Relations of mill and laundry. C. A. Harrison. Textile World 65:2527+ Ap 12 '24
Selling knitted garments direct to consumer. L: R. Keeffe. Textile World 67:1951+ Mr 21 '25
Shrinkage in knitted fabrics. Textile World 65:1315+ F 16 '24
Successful designs for knitted fabrics. W: Davis. il Textile World 66:2977+ N 22 '24
Sweaters and bathing suits. N. Kneeland. 144p Shaw '25
Tendencies in knitted patterns. W: Davis. il Textile World 67:4007+ Je 20 '25
Tentering silk tricot cloth. R. Presgrave. Textile World 67:2845+ Ap 25 '25
Thread economy in knitting mills. W: Davis. Textile World 66:2159+ O 18 '24
To improve laundering qualities. Textile World 65:3154+ My 10 '24
U.S. dominant in knit goods. Textile World 67:870 F 7 '25
Variations in finished weight of silks. R. Presgrave. il Textile World 67:4015+ Je 20 '25
Warp knitting and glove manufacture. G. R. Merrill, comp. 125p Bragdon, Lord & Nagle co., New York '25

See also Glove fabrics; Hosiery; Milanese cloth; Net; Underwear; *also* National knitted outerwear association

Accounting

Cost accounting manual for the knitted outerwear industry. W. Lutz and S. R. Gordon. 145p National knitted outerwear assn., inc., New York '24

Exhibitions

Knitting arts exhibition, 20th, Philadelphia. Textile World 65:2393-6, 2509-10+ Ap 5-12 '24
Knitting arts exhibition, Philadelphia. Textile World 67:2497+ Ap 11 '25

KNIT goods—*Continued*

Specifications

Specifications for knit goods. Textile World 68:79+ Jl 4 '25

Testing

Bursting test for knit fabrics. B. H. Foster. il Textile World 67:2309+ Ap 4 '25; Same cond. India Rubber W 72:471 My '25

Method of testing knitted fabric. F. R. McGowan and C. H. Hamlin. Textile World 67: 3285+ My 16 '25

KNITTING

Fancy knitting. Textile World 64:3715+ D 22 '23

Knitted neckties on lace stitch. W: Davis. il diags Textile World 68:359+ Jl 18 '25

Knitting seamless hose. W. E. Boswell. Textile World 68:1615+ S 19 '25

Knitting viscose rayon. Textile World 68: 1045+ Ag 22 '25

Mechanical problems in knitting rayon. W: Davis. Textile World 68:1783-5 sec 2 S 26 '25

Tuck stitch in hosiery. G. R. Merrill. il Textile World 68:1033+ Ag 22 '25

See also Knit goods

KNITTING machines

Circular rib knitting machines. W. E. Boswell. diags Textile World 64:3713+ D 22 '23

Knitting machinery development. Textile World 65:4085+ Je 21 '24

Knitting machines should be lubricated sparingly. Textile World 64:2883+ N 10 '23

Latch needle web machines. W: Davis. Textile World 66:3589+ D 20 '24

Raschel warp knitting machine. G. R. Merrill. il diags Textile World 67:451+ Ja 24 '25

Tricot warp machine. E: Murden. il diags Textile World 65:369+ Ja 19 '24

Tricot warp machine nets. diags Textile World 65:3301+ My 17 '24

See also Hosiery machines

Exhibitions

Knitting arts exhibition, Philadelphia. Textile World 67:2497+ Ap 11 '25

Lubrication

Standardization of textile mill lubrication. A. F. Brewer. Textile World 68:75+ Jl 4 '25

Needles

Manufacture of hosiery needles. L. W. Lees. il diags Textile Inst J 16:T83-96 Mr '25

Needle breakage. Textile World 64:3717+ D 22 '23

KNITTING mills

Chemistry—an aid to the knitter. Am Dyestuff Rep 13:209-11 Ap 7 '24

Middle Western knitting mills enlarge. W. F. Dolke, jr. il Textile World 65:1313+ F 16 '24

New unit at Ford mfg. co.; complete mill for making union suits. il Textile World 67: 1393+ F 21 '25

See also Hosiery mills

Accounting

Cost control for knit underwear factories. 259p Ronald press '24

Cost finding in knitting mills. S. R. Gordon. 204p Bragdon, Lord & Nagle co., New York '23

Cost of sewing and seaming. W: Davis. Textile World 67:3287+ My 16 '25

Thread economy in knitting mills. W: Davis. Textile World 66:2159+ O 18 '24

Employees

Starting piece work in knitting. Textile World 65:3307+ My 17 '24

Wages and hours of labor in hosiery and underwear mills, 1910-1924. Monthly Labor R 19:538-44 S '24

Management

Controlled production of knit goods; William Carter company. H. C. Gates. Management & Adm 9:343-6 Ap '25

Records

Graphic control in a knitting mill. W. E. Haseltine. charts Textile World 64:3707+ D 22 '23

Yarn and weight records in a hosiery mill. W. E. Haseltine. diags Textile World 65:4083+ Je 21 '24

KNITTING needles

See Knitting machines—Needles

KNIVES

Etching cutlery. J. Haas. il diag Metal Ind 23:226-7 Je '25

Large uses of steel in small ways; pocket knives. il Iron Tr R 75:1579-80 D 11 '24

Safety guards

Greater safety with knife guards. W. F. McClellan. diags Nat Safety N 10:55+ O '24

KNOT tying machines. See Knotters

KNOTS and splices

Knots, useful and ornamental. G: R. Shaw. 109p Houghton '24

KNOTTERS

Boyce weaver's knotter. il Textile World 66: 359 Jl 19 '24

Saco-Lowell weaver's knot-tyer. il Textile World 66:231 Jl 12 '24

KNOWLES column cell. See Electrolytic cells

KNOX, William E., 1862-

Portrait. Am Bankers Assn J 17:201 O '24

KNOX hat company

How we sold simplification to our retailers. F. H. Montgomery. System 47:29-33+ Ja '25

Just how far does it pay to go with simplification. F. H. Montgomery. il Factory 32:153-6+ F '24

Knox factory workers basis of new marketing plan. A. Belden. Ptr Ink M 7:21-2+ D '23

KNOXVILLE, Tennessee

Birdseye view of Knoxville. C. C. Campbell. il Comm & Fin 13:1231+ Je 25 '24

Heavy typhoid at Knoxville attributed to milk and spring water. diag Eng N 93:590 O 9 '24

Knoxville, one of the South's thriving industrial centers. A. L. Powers. il Manuf Rec 87:83-90 Ap 30 '25

Knoxville—there she stands. A. H. Temple. il Comm & Fin 13:1229+ Je 25 '24

KODASCOPE

How Eastman prepared the way for home-made movie advertising. A. E. Haase. Ptr Ink 126:33-4+ Mr 13 '24

KOEHLER safety lamp. See Safety lamps

KOHLER, Wisconsin

Industry which created a town. N. S. Amstutz. il Ind Management 70:159-62 S '25

Why economists blink at Kohler model community factory. W. S. Smith. il Forbes 16: 588-90+ Ag 1 '25

KOJIC acid

Constitution of kojic acid; αγ-pyrone derivative formed by aspergillus oryzae from carbohydrates. T. Yabuta. Chem Soc J 125: 575-87 Mr '24

KONGO, BELGIAN

Trading civilization for copper in the Belgian Congo. Sci Am 132:198 Mr '25

See also Copper mines and mining—Kongo, Belgian; Mines and mineral resources—Kongo, Belgian

KÖNIGSBERG, Germany

Der neubau des Königsberger handels- und industriehafens. D. Kutschke. il diags plan Zeit Ver Deutsch Ing 68:1257-62 D 6 '24

KOPNAERIMETER

The kopnaerimeter. E. V. Hill. Heat & Ven 21:47-8 Mr; 49-50 My '24

KRAMER electronic battery
Kramer electronic cell; a self-charging condenser; abstracts. J. B. Kramer. Elec R (Lond) 95:638-9 O 24 '24; Electrician 93:497 O 31 '24

KREE-mee fudge company
Business that lifted itself by its own bootstraps. M. Hastings, jr. Ptr Ink 132:125-6+ S 3 '25

KREIS test
Quantitative aspects of the Kreis test. G: E. Holm and G: R. Greenbank. Ind & Eng Chem 15:1051-3; 16:518 O '23, My '24
Rancidity and the Kreis test. T. W. Jones. bibliog Soc Chem Ind J (Chem & Ind) 43: 1258-9 D 19 '24

KRISTIANIA. See Oslo, Norway

KRUTTSCHNITT, Julius, 1854-1925
Career of Julius Kruttschnitt. por Ry Age 78:1459-62 Je 13 '25
Julius Kruttschnitt to retire. Ry Age 78:945-6 Ap 11 '25
Sketch. Eng N 94:1034 Je 18 '25

KRYPTOCYANINE
Cyanine dyes; a new method of formation of the carbocyanines; the constitution of the thio*iso*cyanines and of kryptocyanine. W: H. Mills and W. T. K. Braunholtz. Chem Soc J 123:2804-13 N '23

KU KLUX Klan
Ku Klux Klan. Comm & Fin Chr 119:1220-1 S 13 '24

KUTTER'S formula
Determinations of Kutter's *n* in 15- and 18-in. pipe sewers. C: W. Sherman. Eng N 95: 434-6 S 10 '25
Kutter's *n* for rough rock channel excavated by explosives. C. E. Ramser. il Eng N 91: 936 D 6 '23

KYMOGRAPH
Relation between aeronautic research and aircraft design. J. S. Ames. il diag U S Nat Advisory Com for Aeronautics 1923:68-71 '24
Small angular oscillations of airplanes in steady flight. F. H. Norton. il U S Nat Advisory Com for Aeronautics 1923:283-8 '24

KYROCK
Resurfacing old roads and streets with Kyrock. il Munic & Co Eng 67:303-5 D '24

L

L.O.X. See Oxygen, Liquid

LABARTHE, Jules
Metallurgical construction engineer of note. por Eng & Min J 120:604 O 17 '25

LABELS
Foreign labels must indicate origin. Ptr Ink 127:160+ Ap 10 '24
Giving seventy products a family identity. B. A. Grimes. il Ptr Ink M 10:36+ F '25
Labels sell these products to wary buyers. C: Gilliland. il Sales Management 7:1581-2+ O '24
Little things which influence efficiency of label, car-card and poster carrying power. Ptr Ink 126:41-2+ Mr 20 '24
Manufacture and use of printed cartons. C: W. Geiger. il Inland Ptr 74:414-15 D '24
Posters used as packing labels. J: K. Hildebrand. Ptr Ink M 11:50 Jl '25
Simplified practice made known. Iron Age 116:5-6 Jl 2 '25
Unusual label design for bulk container helps stabilize demand. il Ptr Ink 127:41-2+ Ap 24 '24
What packages mean to the salesman in foreign lands. il Sales Management 9:577-9+ O 31 '25
When the package label makes the identity of the product clear. W. L. Larned. Ptr Ink 127:159+ Ap 17 '24
Why some labels are refused copyright protection. Ptr Ink 126:142+ Mr 27 '24
See also Printers' labels

LABOR, Compulsory
Results of compulsory labor in Bulgaria. Monthly Labor R 20:1222 Je '25

LABOR, Hours of. See Hours of labor

LABOR and capital
Buying the products of labor. A. J. Thompson. Iron Tr R 75:480-1 Ag 21 '24
Capital and labor shake hands. Comm & Fin 14:681-2 Ap 15 '25
Giving labor product of its toil. A. J. Thompson. Iron Tr R 75:99-101 Jl 10 '24
Present economic revolution in the United States. T: N. Carver. 270p Little, Brown & co., Boston '25
Relations between capital and labor. W: Green. Monthly Labor R 21:14-15 Jl '25
See also Arbitration, Industrial; Capital; Cooperation; Employees; Industrial councils; Industrial relations; Labor and laboring classes; Profit sharing; Strikes and lockouts; Trade unions; Wages; Welfare work in industry; Workmen's compensation

LABOR and laboring classes
And now, the case for the employe. R: F. Grant. Nation's Business 13:44+ Ap '25
Causeway of capital and labour. S. E. Brent. 109p P. S. King & son, ltd., London '25
Democracy and labour. F. J. C. Hearnshaw. 274p [bibliog. p. 267-70] Macmillan '24
Labor economics. S. Blum. 579p [bibliog. p. 537-49] Holt '25
Labor problems. E. S. Furniss and L. R. Guild. 621p Houghton '25
Labor relations in industry. D. L. Hoopingarner. 553p [bibliog. p. 505-42] Shaw '25
New world of labor. S. Eddy. 216p Doran '23
Power and the working life. C. Goodrich. Ann Am Acad 118:97-9 Mr '25
Some problems of "The forgotten man." F: L. Hoffman. Econ W n s 29:256-9 F 21 '25
Utilization of workers' leisure in various countries. Monthly Labor R 19:296-303 Ag '24
See also Accidents, Industrial; Apprentices; Arbitration, Industrial; Bonus system; Building trades—Labor problems; Child labor; Clothing trade—Labor problems; Coal miners; Convict labor; Cooperation; Co-partnership; Cost of living; Cotton mills—Employees; Craftsmanship; Dairy workers; Day labor; Disabled—Rehabilitation; Diseases, Industrial; Efficiency, Industrial; Employees; Employees' representation in management; Employers' liability; Employment agencies; Employment management; Employment systems; Factory inspection; Factory sanitation; Farm labor; Fatigue; Force account system; Foundries—Employees; Fur workers; Garment workers; Gas companies—Employees; Glass workers; Government employees; Hat makers; Home labor; Hours of labor; Housing; Housing projects, Company; Hygiene, Industrial; Industrial councils; Industrial education; Industrial management; Industrial relations; Industry; Insurance, Industrial; Insurance, Workmen's compensation; Intellectual workers; International labor conference; Iron workers; Labor and capital; Labor disputes; Labor laws and legislation; Laundry workers; Leather workers; Leisure; Longshoremen; Lumber workers; Machinery in industry; Marine workers; Metal workers; Motor truck drivers; Municipal employees; Night work; Occupations; Occupations, Choice of; Occupations, Dangerous; Office workers; Old age pensions; Open and closed shop; Pensions, Industrial; Piece work; Potters; Production; Profit sharing; Railroads—Employees; Roads—Convict labor; Safety devices and measures; Seamen; Shoe factories—Employees; Socialism; Standard of living; Steel workers; Stonecutters; Street railroads—Employees; Strikes and

LABOR and laboring classes—*Continued*
lockouts; Syndicalism; Taxicab drivers; Textile workers; Time study; Trade agreements; Trade unions; Unemployment; Wages; Weavers; Welfare work in industry; Woman—Employment; Woolen and worsted mills—Employees; Workers' gardens; Workmen's compensation

Bibliography

Book notes. Published in monthly numbers of International labour review

Publications relating to labor. Published in monthly numbers of Monthly labor review

Dwellings

See Housing

Education

See Education of workers

History

Primitive labour. L. H. D. Buxton. 272p Methuen & co. ltd., London '24

Le travail à travers les âges et la nationalisation des mines. C. Bartuel, H. Rullière and C. Réal. 393p G. Doin, Paris '24

International problems

Sweated goods. Economist 101:257-9 Ag 15 '25

Periodicals

American labor press directory. 82p Rand school of social science, 7 E. 15th st., New York '25

Economic and sociological periodicals in the New York public library; labor periodicals. N Y Pub Lib Bul 29:66-101, 147-63, 815-26, 866-72 F-Mr, N-D '25 (to be cont)

Statistics

Annual report of the committee of the American statistical association on governmental labor statistics. Monthly Labor R 18:600-4 Mr '24

Committee on governmental labor statistics of the American statistical association. Am Statis Assn J 20:93-8 Mr '25

International conference of labour statisticians; meetings. Int Labour R 11:3-30; 12: 1-22 Ja '24, Jl '25

Is a new view-point toward organized labor justified? Factory 34:37-9 Ja '25

See also Immigration and emigration—Statistics

Alabama

Women in Alabama industries. U S Women's Bur Bul 34:1-86 '24

Australia

See Labor laws and legislation—Australia

Austria

Industrial inspection in Austria in 1920 and 1921. Int Labour R 9:257-70 F '24

Industrial inspection in Austria in 1922. Int Labour R 10:674-85 O '24

Industrial inspection in Austria in 1923. Int Labour R 11:542-51 Ap '25

Protection of apprentices in Austria. Monthly Labor R 20:1175-7 My '25

Utilisation of leisure in Austria. Int Labour R 9:227-41 F '24

Workers' sickness insurance in Austria. F. Hawelka. Int Labour R 8:811-29 D '23

Workers standard of life in countries with depreciated currency. 182p International labour office, Geneva '25

See also Wages—Austria

Belgium

Industrial inspection in Belgium in 1922. Int Labour R 10:148-51 Jl '24

Le Parti ouvrier belge, 1885-1925. E. Vandervelde. 503p Maison nationale d'édition l'Eglantine, Brussells '25

Problem of workers' control in Belgium. M. Gottschalk. Int Labour R 11:329-52 Mr '25

Protecting the Belgian worker's health. Monthly Labor R 17:1167-8 N '23

Workers' leisure committees in Belgium. Int Labour R 9:863-78 Je '24

See also Coal miners—Belgium; Labor laws and legislation—Belgium; Wages—Belgium

Bulgaria

Results of compulsory labor in Bulgaria. Monthly Labor R 20:1222 Je '25

See also Labor laws and legislation—Bulgaria

Canada

Hours of work in Canada. Int Labour R 9:387-97 Mr '24

See also Coal miners—Canada; Labor laws and legislation—Canada; Strikes and lockouts—Canada; Trade unions—Canada; Wages—Canada

Chile

See Wages—Chile

China

Labour conditions and labour regulation in China. Int Labour R 10:1005-28 D '24

Labor conditions in China. Ta Chen. Monthly Labor R 19:980-93 N '24

Labor conditions in Shansi, China. Monthly Labor R 21:478-9 S '25

Recommendations of the Shanghai child labour commission. A. Anderson. Int Labour R 11:665-81 My '25

Report of Shanghai child labor commission. Monthly Labor R 19:1076-9 N '24

See also Labor laws and legislation—China; Trade unions—China; Wages—China

Colorado

See Labor laws and legislation—Colorado

Czechoslovakia

Factory inspection in the Czechoslovak Republic in 1922. Int Labour R 10:143-8 Jl '24

Factory inspection in the Czechoslovak Republic in 1923. Int Labour R 11:83-90 Ja '25

Operation of works committees in Czechoslovakia, 1922. Monthly Labor R 19:44-7 Jl '24

Use of spare time in Czechoslovakia. Int Labour R 9:879-95 Je '24

Workers' education in Czechoslovakia. Monthly Labor R 21:857 O '25

See also Labor laws and legislation—Czechoslovakia; Strikes and lockouts—Czechoslovakia

Denmark

See Wages—Denmark

Finland

Industrial inspection in Finland in 1921. Int Labour R 9:105-8 Ja '24

Utilisation of leisure in Finland. Int Labour R 9:573-86 Ap '24

Welfare work for employees in Finland. Monthly Labor R 17:1415 D '23

See also Housing—Finland; Labor laws and legislation—Finland; Wages—Finland

France

Collective agreements reported to French ministry of labor, in 1923. Monthly Labor R 19:143 Jl '24

Labour conditions in France during the war. Int Labour R 12:530-4 O '25

Labor, wages and unemployment in France. E. A. Welden. U S Bur For & Dom Com Trade Information Bul 262:1-10 '24

See also Coal miners—France; Housing—France; Miners—France; Wages—France

Germany

Compulsory adjustment of industrial disputes in Germany. F. Sitzler. Int Labour R 12: 457-66 O '25

LABOR and laboring classes—Germany—*Cont.*
Continental immigration in Germany. Int Labour R 9:50-77 Ja '24
Eight-hour day in Germany in 1921 and 1922. Int Labour R 8:863-73 D '23
German exhibition of home industries and its lessons. G. Hanna. Int Labour R 12:523-9 O '25
Hours actually worked by German workers, May, 1924. Monthly Labor R 19:819-21 O '24
Industrial inspection in Germany in 1921 and 1922. Int Labour R 8:739-57 N '23
New arbitration machinery in Germany. B. Stern. Monthly Labor R 18:1204-7 Je '24
Position of the workers in Germany. 133p International federation of trade unions, Amsterdam '23
Postwar labor conditions in Germany. R. R. Kuczynski. U S Bur Labor Statistics Bul 380:1-199 '25
Workers standard of life in countries with depreciated currency. 182p International labour office, Geneva '25

See also Housing—Germany; Labor laws and legislation—Germany; Strikes and lockouts—Germany; Trade unions—Germany; Unemployment—Germany; Wages—Germany

Great Britain

Bearing of labour unrest upon the path to be taken to sound currency. A. Hoare. Roy Statis Soc J 88:379-89; Discussion. 390-402 My '25
British impressions. T: Harper. Metal Ind 22: 322-4 Ag '24
British labor movement. R. H. Tawney. 189p Yale univ. press, New Haven '25
Export of skilled labor from Britain. F. C. Chappell. Annalist 23:137+ Ja 21 '24
Factory inspection in Great Britain in 1922. Int Labour R 8:914-20 D '23
Factory inspection in Great Britain in 1923. Int Labour R 10:665-74 O '24
Human factor in British industry. J. F. Whiteford. il Ind Management 69:349-53 Je '25
Industrial revolution; a common fallacy examined and exposed. E. Benn. Electrician 92:606 My 16 '24
Labor conditions in relation to the industrial situation in Great Britain. N. Sargent. Econ W n s 30:654-7 N 7 '25
Labour in 1923. Economist 98:45-6 Ja 12 '24
Outline of the British labor movement. P. Blanshard. 174p Doran '23
Spare time in the country; an English experiment in organisation. Int Labour R 9: 916-38 Je '24

See also Coal miners—Great Britain; Great Britain—Trade boards; Housing—Great Britain; Strikes and lockouts—Great Britain; Trade unions—Great Britain; Unemployment—Great Britain; Wages—Great Britain; Workmen's compensation—Great Britain

Greece

Factory inspection in Greece in 1921. Int Labour R 10:136-43 Jl '24

Haiti

Labor situation in Haiti. Monthly Labor R 19:996-7 N '24

Hawaiian Islands

Labor conditions in Hawaii. Monthly Labor R 18:956-8 My '24

Hungary

Decline in standard of living of Hungarian working classes. Monthly Labor R 18:311-14 F '24

See also Labor laws and legislation—Hungary; Wages—Hungary

Illinois

Industrial situation in Illinois in October. Comm & Fin Chr 117:2271-2 N 24 '23 [continued monthly]

India

Factory administration in India. S: J. Hopper. Mech Eng 47:859-60 O '25
Factory inspection in India in 1922. Int Labour R 10:151-3 Jl '24
Labour in Indian industries. G. M. Broughton. 214p Oxford '24

See also Housing—India; Labor laws and legislation—India; Workmen's compensation—India

Ireland

Labour problems in northern Ireland. J. A. Dale. Int Labour R 11:229-38 F '25

Italy

Collective agreements in Italian agriculture, 1923-24. Monthly Labor R 19:610-12 S '24
Labor, wages, and unemployment in Italy. H. C. MacLean. U S Bur For & Dom Com Trade Information Bul 337:1-17 '25
Landless agricultural laborer in Italy. A. Hobson. J Land & Pub Util Econ 1:425-34 O '25
Wage rates and economic condition of Italian workers. Monthly Labor R 21:751-4 O '25

See also Labor laws and legislation—Italy; Strikes and lockouts—Italy

Japan

Japan's grave export trade problems. F. C. Chappell. Annalist 23:605+ My 26 '24
Labour recruiting in Japan and its control. S. Yoshisaka. Int Labour R 12:484-99 O '25
Loss of skilled workers felt in restoring Japanese industries. Chem & Met Eng 29:1074 D 10 '23
Vocational education in Japan. Int Labour R 11:855-7 Je '25
Works councils in Japan. Int Labour R 11: 239-43 F '25

See also Labor laws and legislation—Japan; Miners—Japan; Wages—Japan

Massachusetts

Labor conditions in the shoe industry in Massachusetts, 1920-1924. R. S. Billups and P. L. Jones. U S Bur Labor Statistics Bul 384:1-46 '25

Mexico

See Labor laws and legislation—Mexico; Wages—Mexico

Missouri

Women in Missouri industries. diags U S Women's Bur Bul 35:1-127 '24

Netherlands

Industrial inspection in the Netherlands in 1921. Int Labour R 8:924-9 D '23
Industrial inspection in the Netherlands in 1922. Int Labour R 10:1035-43 D '24
Industrial inspection in the Netherlands in 1923. Int Labour R 11:389-96 Mr '25

New York (state)

Factory employment in New York state, November to December. Comm & Fin Chr 120:267-8 Ja 17 '25 [continued monthly]

See also Wages—New York (state)

New Zealand

Experiments in state control in New Zealand; Arbitration court, Board of trade. J. B. Condliffe. Int Labour R 9:334-60 Mr '24

Norway

Factory inspection in Norway in 1923. Int Labour R 11:397-400 Mr '25

See also Unemployment—Norway; Wages—Norway

Pennsylvania

See Coal miners—Pennsylvania

Philippine Islands

Labor conditions in the Philippine Islands. Monthly Labor R 19:1224-5 D '24

See also Strikes and lockouts—Philippine Islands

LABOR and laboring classes—*Continued*

Poland

Statistics of continental migration in Poland. Int Labour R 9:729-55 My '24

Workers standard of life in countries with depreciated currency. 182p International labour office, Geneva '25

See also Labor laws and legislation— Poland; Strikes and lockouts—Poland; Wages —Poland

Porto Rico

See Wages—Porto Rico

Rumania

See Trade unions—Rumania

Russia

Industrial hygiene in Moscow. A. Hamilton and R. E. Hilles. J Ind Hygiene 7:47-61 F '25

Industrial life in soviet Russia, 1917-1923. 260p [bibliog. p. 256-60] International labour office, Geneva '24

Labor problems in a Siberian plant; operating a coal mine and coke by-products plant under the Soviet. S: S. Shipman. Ind Management 70:248-52 O '25

Russia today; the official report of the British trade union delegation. 284p International publishers, New York '25

Vocational education in soviet Russia. B. A. Nikolsky. Int Labour R 12:386-401, 500-22 S-O '25

See also Trade unions—Russia; Wages—Russia

Scandinavia

See Wages—Scandinavia

South Africa

Labor conditions in South Africa. Monthly Labor R 17:1019-21 N '23

South Carolina

Women in South Carolina industries. U S Women's Bur Bul 32:1-128 '23

Southern states

Southern industrial labor supply; the Piedmont section of the Carolinas. R. G. Macy. il Management & Adm 8:253-7 S '24

Spain

Labor conditions in Spain. Monthly Labor R 19:1225-6 D '24

Labour inspection in Spain in 1920, 1921, and 1922. Int Labour R 9:99-105 Ja '24

See also Strikes and lockouts—Spain; Wages—Spain

Sweden

Agricultural workers on large-scale farms in Sweden. Int Labour R 12:542-54 O '25

Collective agreements, labour disputes, and the work of the official conciliators in Sweden in 1923. Int Labour R 10:853-8 N '24

Development and provisions of collective agreements in Sweden. Monthly Labor R 19:1309-14 D '24

Industrial democracy in Sweden. E. Wigforss. Int Labour R 9:667-79 My '24

Industrial inspection in Sweden in 1923. Int Labour R 11:244-8 F '25

Use of spare time in Sweden. B. Nyström. Int Labour R 9:845-62 Je '24

See also Strikes and lockouts—Sweden; Wages—Sweden

United States

Adjusted monthly index of employment. Annalist 22:637 N 12 '23

Adjusting immigrant and industry. W: M. Leiserson. 356p Harper '24

Business fluctuations and the American labor movement 1915-1922. V. W. Lanfear. (Studies in history, economics and public law) 132p [bibliog. p. 128-9] Columbia univ., New York '24

Causes of industrial unrest. J: A. Fitch. 424p Harper '24

City worker's spare time in the United States. Int Labour R 9:896-916 Je '24

Common labor in railway construction and maintenance. W: Beahan. Eng & Contr (Ry) 60:1307-9 D 19 '23

Crisis looms before organized labor in America; it must justify restricted immigration by its own high efficiency if it is to escape industrial ruin. H: P. Fairchild. Annalist 23:683-4+ Je 16 '24

Election issues. Nat City Bank p 157-66 O '24

Employment and earnings in selected industries in February. Comm & Fin Chr 120: 2210-13 My 2 '25 [continued monthly]

Employment and incomes of our factory workers. W: A. Berridge. Annalist 26:51 Jl 17 '25

Employment and wages in Pennsylvania and New Jersey. Comm & Fin Chr 118:1331 Mr 22 '24 [continued monthly]

Factory employment below normal level. W: Berridge. Annalist 25:33 Ja 5 '25

How America lives; a handbook of industrial facts. H. W. Laidler. 39p League for industrial democracy, New York '24

Increase in employment in selected industries in the United States in February 1924. Comm & Fin Chr 118:1599-1601 Ap 5 '24

Industrial worker 1840-1860. N. Ware. 249p Houghton '24

Labor and immigration outlook. J. J. Davis. Annalist 23:15+ Ja 7 '24

Labor attitudes and problems. W. E. Atkins and H. D. Lasswell. 520p Prentice-Hall '24

Labor Day address of John W. Davis. Comm & Fin Chr 119:1132-3 S 6 '24

Labor Day address of President Coolidge. Comm & Fin Chr 119:1127-9 S 6 '24

New labor declaration. Nat City Bank p 191-5 N '25

Recent developments in the American labor movement. H. W. Laidler. 38p [bibliographies] League for ind. democracy, New York '23

Recent labor progress. R. W. Babson. 336p Revell '24

Short history of the American labor movement. M. R. Beard. 206p Doran '25

Trend of employment of men and women in specified industries. E. Stewart. Monthly Labor R 20:739-50 Ap '25

Wastage of men. E. Stewart. Monthly Labor R 19:1-8 Jl '24

See also Coal miners—United States: Housing—United States; Labor laws and legislation—United States; Miners—United States; Negroes in the United States—Employment; Strikes and lockouts—United States; Trade unions—United States; Unemployment—United States; Wages—United States; Workmen's compensation—United States

Venezuela

See Wages—Venezuela

Wales

Industrial revolution in South Wales. N. Edwards. 108p [bibliog. p. 103-4] Labour pub. co., ltd., London '24

West Virginia

See Coal miners—West Virginia

LABOR banks. See Banks and banking, Trade union

LABOR bureaus

Laws providing for bureaus of labor statistics, etc. U S Bur Labor Statistics Bul 343:1-170 '23

What state labor bureaus are doing. See monthly numbers of Monthly labor review

LABOR colleges

See Education of workers; *also* Commonwealth college, Mena, Arkansas

LABOR contracts

See Open and closed shop; Trade agreements; Wages

LABOR cost

Classification of causes for variations from standard labor costs; symbols and method of use on time cards. M. R. Lott. Management & Adm 9:347-8 Ap '25

Controlling the labor. F. L. Sweetser. Paper Tr J 79:51-5 O 9 '24

Cost of production. E. T. Good. Engineer 138: 460-1 O 24 '24

Costing schemes from the manufacturers' standpoint. A. J. Simons. Cassier's Ind Management 12:296-8 My '25

Economics of the heavy iron and steel industry. F: Mills. Iron & Steel Inst J 111:31-42 no 1 '25; Same cond. Engineer 139:524-5 My 8 '25

Figuring automatic screw machine costs. N. D. Gaston. Ind Management 69:6 Ja '25

Indirect labor. H. J. Ostlund. Paper Tr J 78: 58+ Mr 13 '24

Labor cost declared to average 80 per cent of wholesale prices. Iron Age 115:198 Ja 15 '25

Labor cost in common brick. Brick & Clay Rec 66:120-2 Ja 20 '25

Labor problem; industrial relations and accounting for labor. J. P. Jordan. Paper Tr J 80:53-6 Ja 22 '25

Labor productivity and costs in certain building trades. E. Stewart. Monthly Labor R 19:945-59 N '24; Abstract. Arch Forum 42: 29-30 Ja '25

Longshore labor efficiency. Monthly Labor R 18:325-33 F '24

Overhead and labour costs. Engineer 138:532-3 N 7 '24; Discussion. 138:527, 581 N 7, 21 '24

Practical accounting system for labor costs; how a paper mill controls its labor budget. H. M. Grasselt. Ind Management 70:284-6 N '25

Problem of costing under various wage systems. T: H. Sanders. Paper Tr J 78:57-60 Mr 20 '24

Time and labor costs in manufacturing 100 pairs of shoes, 1923. U S Bur Labor Statistics Bul 360:1-154 '24

Translating high labor rates into lower costs. D. C. Lowles. Am Management R 14:211-13 Jl '25

Unit labor costs are easily found. A. J. Peel. Concrete 27:32-4 N '25

What will you do about labor? Brick & Clay Rec 65:764-6 N 25 '24

See also Labor saving devices

LABOR disputes

Collective agreements, labour disputes, and the work of the official conciliators in Sweden in 1923. Int Labour R 10:853-8 N '24

Industrial round table for conciliation in labor disputes. M. M. Marks. Monthly Labor R 20:1211-20 Je '25

See also Arbitration, Industrial; Strikes and lockouts; Trade agreements; *also* International ladies' garment workers union

LABOR education. See Education of workers

LABOR laws and legislation

Labor laws and court decisions. Published in monthly numbers of Monthly labor review

Legislation on annual holidays for workers. Int Labour R 11:60-82 Ja '25

Legislative series, 1922. v. 3 $7.50 International labour office, Geneva '24

Selection of cases and other authorities on labor law. F. B. Sayre. 1045p Harvard univ. press. Cambridge '23

Trade organisation and labour legislation. J. A. Veraart. Int Labour R 11:784-802 Je '25

See also Alien labor; Arbitration, Industrial; Child labor; Courts, Industrial; Employers' liability; Family allowances; Hours of labor; Industrial laws and legislation; Insurance, Workmen's compensation; Labor, Compulsory; Minimum wage; Pensions, Industrial; Strikes and lockouts; Trade unions; Wage fixing; Woman—Employment; Workmen's compensation

Bibliography

Recent labour legislation. Int Labour R 8:758-71, 930-48; 9:289-316, 427-445, 791-800 N-D '23, F-Mr, My '24 [continued monthly]

Argentina

Argentina's new workers' pension system. K: W. Miller. Econ W n s 27:565-6 Ap 19 '24

Labor legislation of Argentina. E. Y. Larson. Monthly Labor R 19:1159-63; 20:644-52, 1348-53 N '24, Mr, Je '25

Australia

Development of state wage regulation in Australia and New Zealand. D. M. Sells. Int Labour R 10:607-29, 779-99, 962-1004 O-D '24

State experiments in Australia and New Zealand. W: P. Reeves. 2v. v. 2 Dutton '25

See also Factory laws—Australia

Belgium

Belgian law on insurance of employees against old age and premature death. Monthly Labor R 21:410-13 Ag '25

Belgian law on insurance of workers against old age and premature death. A. L. Whitney. Monthly Labor R 20:893-5 Ap '25

Working of the eight-hour day act in Belgium. Int Labour R 12:402-8 S '25

Bulgaria

Bulgarian law and social insurance. Monthly Labor R 20:896-9 Ap '25

Labour legislation in Bulgaria. L. Yanouloff. Int Labour R 10:435-51 S '24

California

Labor laws of the state of California, 1923. 184p California. Bur. of labor statistics, Sacramento '24

Canada

Constitutionality of industrial disputes investigation act of Canada. Monthly Labor R 20:1156-9 My '25

Labor legislation in Canada, 1924. Monthly Labor R 21:169-72 Jl '25

China

Labor legislation in China. Monthly Labor R 18:658-61 Mr '24

Colorado

Colorado industrial law. W: I. Reilly. Min Cong J 11:20-2 Ja '25

Czechoslovakia

New social insurance act of the Czechoslovak Republic. L. Winter. Int Labour R 11:451-73 Ap '25

Finland

Law on collective agreements in Finland. Monthly Labor R 18:1067-8 My '24

France

Amendment of French law regulating night work of women and children. Monthly Labor R 20:839 Ap '25

Judicial remedies in recent French legislation for the enforcement of agreements of trade associations. P. Pic. Int Labour R 12:23-38 Jl '25

Legal position of public servants in France. A. Boissard. Int Labour R 12:317-45 S '25

Germany

Collective agreements in Germany, 1923. Monthly Labor R 20:1286-8 Je '25

German legislation on industrial dwellings. Int Labour R 12:65-73 Jl '25

Legal nature and economic significance of the German works councils. H. Dersch. Int Labour R 11:169-79 F '25

Regulation of hours of labor in Germany. Monthly Labor R 18:559-61 Mr '24

Social insurance legislation in Germany, 1923. Monthly Labor R 19:205-9 Jl '24

Vocational guidance in Germany. Int Labour R 11:526-41 Ap '25

LABOR laws and legislation—Germany—*Cont.*
Works council movement in Germany. B. Stern. U S Bur Labor Statistics Bul 383:1-114 [bibliog. p. 113-14] '25

Great Britain

Interpretation and administration of labour laws in England. H. C. Gutteridge. Int Labour R 10:209-35 Ag '24

See also Great Britain—Trade boards; Workmen's compensation—Great Britain

Hungary

Labour legislation in Hungary. D. Pap. Int Labour R 8:645-71 N '23

India

Factory conditions in the Punjab in 1922. Monthly Labor R 17:1274-5 D '23

Italy

Italy's recently enacted unemployment insurance law. R. Angelone. Econ W n s 27:489-90 Ap 5 '24
Recent Italian legislation on hours of labor. Monthly Labor R 18:561-7 Mr '24

Japan

Labour recruiting in Japan and its control. S. Yoshisaka. Int Labour R 12:484-99 O '25

Mexico

Analysis of Mexican state laws on wages and hours of labor, and employment of women and children. J: Ritchie. Monthly Labor R 17:1179-91 N '23
Labor law of Nayarit, Mexico. E. Y. Larson. Monthly Labor R 19:452-60 Ag '24
Labor laws of Durango, Mexico. Monthly Labor R 18:883-94 Ap '24
Labor laws of Jalisco, Mexico. E. Y. Larson. Monthly Labor R 18:1207-22 Je '24
Minimum wage law of San Luis Potosi, Mexico. Monthly Labor R 20:1066-7 My '25
Protection of workers under Mexican state labor laws. E. C. Yohe. Monthly Labor R 17:1237-49 D '23

New York (state)

Miscellaneous labor laws with amendments, additions and annotations to August 1, 1924. 191p New York (state). Dept. of labor, Albany '24
Protective labor legislation, with special reference to women in the state of New York. E. F. Baker. (Columbia univ. Studies in history, economics and public law) p 103-456 Longmans '25

New Zealand

Development of state wage regulation in Australia and New Zealand. D. M. Sells. Int Labour R 10:627-9, 779-99, 962-1004 O-D '24

Norway

Compulsory arbitration in Norway. J: Castberg. Int Labour R 11:15-38 Ja '25

Ontario

Administration of labour laws in Ontario in 1922 and 1923. Int Labour R 11:248-50 F '25

Poland

Vacations with pay in Poland. Monthly Labor R 18:89-90 Ja '24

Quebec

Administration of labour laws in Quebec in 1921-1923. Int Labour R 10:1043-5 D '24

South Africa

New conciliation and arbitration law in South Africa. Monthly Labor R 19:232-3 Jl '24

United States

Decisions of courts and opinions affecting labor, 1922. L. D. Clark and D. F. Callahan. U S Bur Labor Statistics Bul 344:1-421 '23
Foreman and the law. H. Diemer and others, eds. 80p La Salle extension univ., Chicago '21
Labor laws and court decisions. Published in monthly numbers of Monthly labor review
Labor laws of the United States with decisions of courts relating thereto. U S Bur Labor Statistics Bul 370:1-1240 '25
Labor legislation of 1923. Monthly Labor R 18:634-57 Mr '24
Labor legislation of 1924. L. D. Clark. Monthly Labor R 20:636-44 Mr '25
Labor recommendations in governors' messages of 1925. Monthly Labor R 20:750-5 Ap '25
Laws providing for bureaus of labor statistics, etc. U S Bur Labor Statistics Bul 343:1-170 '23
Protective labor legislation, with special reference to women in the state of New York. E. F. Baker. (Columbia univ. Studies in history, economics and public law) p 1-102 Longmans '25

See also Workmen's compensation—United States

Washington (state)

Compilation of labor, industrial insurance, medical aid, safety, and other laws. 168p Washington (state). Dept. of labor and industries, Olympia '23

LABOR officials

Directories

Directory of labor officials in United States and foreign countries. Monthly Labor R 21:215-36 Jl '25

LABOR party (Australia)
How labour governs. V. G. Childe. 216p Labour pub. co., London '23

LABOR party (Great Britain)
British labour speaks. R: W. Hogue, ed. 282p Boni & Liveright, New York '24
Fall of British labor government. Comm & Fin Chr 119:1700-1 O 11 '24
Labour party and communism. Economist 101:525-6 O 3 '25
Responsibility begets understanding; explaining the mystery of the British Labor party. P. W. Wilson. il Nation's Business 12:16-18 S '24

LABOR party (United States) [proposed]
Labor party for the United States. J. G. Hodgson, comp. Ref Shelf 3:1-109 [bibliog. p. 9-19] no 2 '25

LABOR saving devices
Computing the economies of labor-saving equipment. Power Pl Eng 28:179 F 1 '24
Formulas for computing economies of labor-saving equipment. Mech Eng 47:59-62 Ja '25
Formulas for computing economies of labor-saving equipment. J. A. Shepard and G: E. Hageman. Mech Eng 47:403-8 sec 2 My '25; Same. Cassier's Ind Management 12:434-40+ S '25; Same. Eng & Contr (G C) 64:1319-29 D 16 '25
It pays to make the job easy for the workman. L. C. Morrow. il Am Mach 61:11-16 Jl 3 '24
Labor saving devices. il diags Ry Mech Eng 98:634-6 O '24
Labor-saving equipment in road construction. E. H. Lichtenberg and J. A. Shepard. il Mech Eng 47:414-15 sec 2 My '25
Labor saving machinery adopted. G. H. Charls. Iron Tr R 74:1563-4 Je 12 '24
Things to tell your men. G: E. Roberts. Nation's Business 12:47-8 S '24
Use of labor saving machines in the gas industry. J. K. Crowell. Am Gas J 120:501-2+ My 31 '24

See also Calculating machines; Counting machines and devices; Domestic appliances; Machinery, Automatic; Mechanical handling; Office appliances; Time saving

Advertising

Shooting industrial copy straight at the mark; the Jeffrey manufacturing company uses colored inserts. W. A. Grieves. Ptr Ink 129: 128+ O 16 '24

LABOR statisticians. See International conference of labour statisticians

LABOR supply
Has industry its own remedy for labor shortage? W: R. Basset. il Factory 32:307-10+ Mr '24
Immigration as it affects the labor situation. W. W. Husband. Boston Soc C E J 11:21-37; Discussion. 38-48 Ja '24
Index of the labor market. charts Fed Res Bul 10:83-7 F '24
Who will take your place? L. A. Hartley. Am Mach 62:1007-8 Je 25 '25

See also Employment systems; Immigration and emigration—United States; Intellectual workers; Labor turnover; Unemployment

LABOR turnover
Another way to look at labor turnover. E. B. Morgan. Factory 33:50 Jl '24
Calculation of labor turnover. 16p American management assn., 20 Vesey st., New York '23
Computation of labor turnover. P. F. Brissenden. Am Management R 14:114-16 Ap '25
Cost of labor turnover. H. Fischer. Ind Management 70:150-2 S '25
Cost of labor turnover—how much—and why. R. B. Williams. Am Mach 63:329-30 Ag 20 '25
Experimental psychology in personnel problems. C. S. Yoakum. Taylor Soc Bul 10:158-60; Discussion. 160-3 Je '25
Figuring labor turnover. A. Watts. Am Mach 62:883 Je 4 '25
Four years of labor mobility; a study of labor turnover in a group of selected plants in Philadelphia, 1921-1924. Ann Am Acad 119: supl-146 My '25
How, for only $210, we reduced a serious labor turnover. M. R. Machol. Factory 31:756-7+ D '23
Is turnover in the sales force really a blessing in disguise? Sales Management 8:441-2 Mr 21 '25
Labor turnover. L. Hodges. Textile World 65: 4077-8 Je 21 '24
Labor turnover and its relation to accidents. B. J. Mullaney. Nat Safety N 9:35 Ap '24
Labor turnover can be reduced. Iron Age 115: 1406-7 My 14 '25
Labor turnover industry's key. H. H. Hill. Am Ind 25:31+ N '24
Machines—a factor in holding men. R. B. Williams. Ind Management 66:276-7 N '23
Other side of labor turnover. W: Davenport. Am Mach 62:53-4 Ja 8 '25
Recognition of long-time service. L. D. Burlingame. il Management & Adm 6:767-9 D '23
Reducing the turnover of labor. C. A. Walker. Iron Tr R 74:350-2 Ja 31 '24
Relation of machines to labor turnover. R. B. Williams. il Blast F & Steel Pl 13:5-8 Ja '25
Stability factor of the personnel. E. B. Morgan. Am Management R 13:4-5 Je '24
Stability of employees in Wisconsin. Monthly Labor R 20:608-9 Mr '25
Was Mr Nevins right about his labor turnover? Factory 33:511 O '24
Which companies have the lowest labor turnover in America? W. J. Held. Forbes 16: 258+ Je 1 '25
Which companies have the lowest labor turnover in America? C. J. Hicks. il Forbes 16: 748+ S 1 '25
Which companies have the lowest labor turnover in America? H. G. Sisson. Forbes 16: 453+ Jl 1 '25

See also Employment management; Employment systems

Bibliography

Readers' guide to management literature. E. V. McCollough. Ind Management 69:103-4 F '25

LABORATORIES
Boyce Thompson institute for plant research, Yonkers, N.Y. Arch & Bldg 56:93-4, pl 197-200 O '24
Ford engineering laboratory. G. E. Hagemann. il Management & Adm 9:219-22 Mr '25
Laboratories of ventilation and illumination, Harvard school of public health, Boston. P. Drinker. bibliog il diags J Ind Hygiene 6:57-66 Je '24
Laboratory for Colonial steel co. G: F. Tegan. il Iron Age 115:1408-10 My 14 '25
Layout of the Industrial gas laboratory at the Massachusetts institute of technology. diag Gas Age 53:80-2 Ja 19 '24
Les nouveaux ateliers et laboratoires de l'Ecole centrale des arts et manufactures. L. Guillet. il diags plans Génie Civil 86:497-509 My 23 '25
Technical laboratory of the apparatus house; its functions and organization. P. E. Klopsteg. Chem Age 32:131-4 Mr '24
Workshop laboratory at the British Empire exhibition. Engineering 117:614-15 My 9 '24

See also Aerodynamic laboratories; Chemical laboratories; Electric laboratories; Engineering laboratories; Gas laboratories; Hydraulic laboratories; Industrial research; Metallurgical laboratories; Physical laboratories; Radio laboratories; Rubber laboratories; Testing laboratories; Underwriters' laboratories; *also* American society of heating and ventilating engineers—Research laboratory; Trudeau laboratory; United States—Chemistry, Bureau of—Carbohydrate laboratory; United States—Forest products laboratory

Management

Co-operation between engineer and works chemist. Chem Age (Lond) 11:288 S 20 '24
Management of industrial research. J. M. Weiss and C. R. Downs. Chem & Met Eng 30:475-8, 513-16, 549-54 Mr 24-Ap 7 '24
Tested method of laboratory organisation. S. Pile and R. G. Johnston. 98p H. F. & G. Witherby, London '23

LABORATORIES, Hydraulic. See Hydraulic laboratories

LABORATORIES, Testing. See Testing laboratories

LABORATORY apparatus. See Chemical apparatus

LABORATORY desks. See Desks, Laboratory

LACCOLITH
Structure of the South Moccasin laccolith, Fergus county, Montana. H. S. Palmer. diags Am J Sci 5th ser 10:119-33 Ag '25

LACE and lace making
Bleaching and finishing of laces. J. Richter. il diag Chemicals (Dyestuffs sec) 16:165-6 My 25 '25
Delicate Belgian laces. Verhaegen. il Dun's Int R 44:69-70+ D '24
How to know laces; with a postscript on embroideries. E. H. Roberts. 67p Dry goods economist, 239 W. 39th st., New York '25
Lace curtains. il diag Textile Inst J 15:P100-4 Ap '24
Lace finishing machine. diag Color Tr J 16: 149 My '25
Lace in the making with bobbins and needle. M. L. Brooke. 164p Routledge '23
Lace trade. Economist 101:372-3 S 5 '25
Machine-made lace industry with particular reference to Empire trade. J. L. Litchfield. Textile Inst J 15:P438-42; Discussion. P442-3 S '24

See also Scranton lace company

LACE fabrics
Finishing lace and light fabrics. Textile World 67:1509+ F 28 '25
Production of artificial lace and tulle from cellulose solutions. diag Color Tr J 14:164-5 My '24

See also Net

LACKAWANNA and Wyoming Valley railroad
Freight-carrying road held to be under section 15a. Aera 13:1380-3 Mr '25

LACQUER and lacquering
Blushing; its causes and methods of prevention. H. Zeller. Metal Ind 21:444-5 N '23
Blushing or clouding; causes and prevention of these defects in lacquered metal products. W. J. Smart. Metal Ind 23:367 S '25
Butanol—its use in industry. C. L. Gabriel. Chemicals 23:9 My 25 '25
Four ways to save time and money in the paint shop. F. J. Plym. il Factory 35:112+ Jl '25
How pyroxylin lacquers are manufactured. E. M. Flaherty. Chem Rec Age 23:9-10 Ap 20 '25
How Sherwin-Williams lacquer is applied. Automotive Ind 52:936 My 28 '25
Lacquer finish popular and will live, but problems not all solved. H. Chase. il Automotive Ind 52:1102-6 Je 25 '25
Lacquers—new and old. M. Toch. Chem Age 32:501-2 D '24
Nitrocellulose and pyroxylin lacquers. J. B. Wiesel. Chem Age 32:439-42 N '24
Nitrocellulose and the lacquer industry. R. A. Coolahan. Chem Rec Age 23:7-8 Mr 23 '25
Phenol-formaldehyde resins as constituents of lacquers and varnishes. A. C. Hopper. Chem Age (Lond) 13:370-1 O 10 '25
Progress in terms of volatile solvents. B. R. Tunison. Chem & Met Eng 32:93-4 Ja 19 '25
Pyroxylin invades the varnish plant. il Chem & Met Eng 32:747-9 S '25
Recent developments in the manufacture and application of nitrocellulose lacquers and enamels. G. E. Condé. Can Chem & Met 8:219-21 S '24
Solvents and automobile lacquers. D. B. Keyes. il Ind & Eng Chem 17:558-67 Je '25; Excerpts. Oil Paint & Drug Rep 107:22 Je 1 '25
Two-type lacquer solvents. D. B. Keyes. Ind & Eng Chem 17:1120-2 N '25
Use of plasticizers in lacquers. B. K. Brown. bibliog Ind & Eng Chem 17:568-9 Je '25
Valentine makes radical improvements in lacquer finishing. H. Chase. Automotive Ind 52:873-4 My 14 '25

See also Duco finish; Japanning; Varnish and varnishing

Bibliography

References to recent work on nitrocellulose lacquers. F. M. Crawford. Chem & Met Eng 32:505, 570-1, 635-6, 683-4 My-Ag '25

LACTARINIC acid
Synthesis of certain higher aliphatic compounds; a synthesis of lactarinic acid and of oleic acid. G. M. Robinson and R. Robinson. Chem Soc J 127:175-80 Ja '25

LACTIC acid
Equilibrium between lactic acid and its anhydrides. G. I. Thurmond and G. Edgar. Ind & Eng Chem 16:823-6 Ag '24
Use of lactic acid in textile industry. Am Dyestuff Rep 14:710 O 19 '25
What causes and what cures fatigue; lactic acid controls the action of our muscles. R. L. Duffus. il Sci Am 132:10-11 Ja '25

LACTONES
Acid catalysis in lactone formation. H. S. Taylor and H. W. Close. J Phys Chem 29: 1085-98 S '25
Formation of stable β-lactones. L. Bains and J. F. Thorpe. Chem Soc J 123:2742-5 N '23

See also Dilactones

LACTOSE
Lactose. E. O. Whittier. Chem R 2:85-125 [bibliog. p. 118-25] Ap '25
Relations between rotatory power and structure in the sugar group; the chloro-, bromo- and iodo-acetyl derivatives of lactose. C. S. Hudson and A. Kunz. Am Chem Soc J 47:2052-5 Jl '25

LADDERS
Hydraulic fire ladder. il diag Engineering 117: 575, 578 My 2 '24
Ladder security. diags Safety Eng 49:230-1 My '25
Safety device for ladders. M. E. Clements. il Eng & Contr (Bldgs) 64:701 S 23 '25
Substantial metal ladder for industrial uses. il Ind Eng 83:445-6 S '25

LADENBURG formula
Experiments on the synthesis of substances possessing the Ladenburg formula; associated three-carbon ring systems. E. H. Farmer. Chem Soc J 123:3332-41 D '23

LA FOLLETTE, Robert Marion, 1855-1925
Address of Progressive candidate for president, detailing differing policies of opponents. Comm & Fin Chr 119:1359-62 S 20 '24
Address on Labor Day. Comm & Fin Chr 119: 1133-4 S 6 '24
Robert M. La Follette candidate for President of United States on Progressive and Socialist tickets—candidate of Farmer labor party. Comm & Fin Chr 119:157-60 Jl 12 '24
Senator La Follette. M. Sykes. Comm & Fin 14:1235 Je 24 '25
Senator La Follette's attack on railroads. Comm & Fin Chr 119:1916-17 O 25 '24

LAGOS, Nigeria

Harbor

Iddo Island wharf; Lagos harbour. diags Engineering 120:373-4, pl 25 S 25 '25

LAIMBEER, Mrs William
National city bank appoints woman executive. Bankers M 110:547-9+ Mr '25

LAITANCE
Notes on laitance. R. M. Miller. il diags Am Concrete Inst Pro 21:68-79 '25; Same. Ry R 77:527-30 O 3 '25; Same cond. Concrete 26:97-8 Mr '25; Same cond. Eng & Contr (G C) 64:887-92 O 21 '25; Discussion. Am Concrete Inst Pro 21:80-4 '25

LAKE carriers association
Annual meeting, Detroit, April 16. Marine R 55:201 My '25
Great Lakes shipowners develop model welfare plan. G: A. Marr. Marine Eng 29:393-6 Jl '24

LAKE Shore electric railway
Lake Shore electric railway system reports smaller surplus. Elec Ry J 65:870 My 30 '25

LAKE Superior corporation
Annual report, 21st, year ended June 30, 1925. Comm & Fin Chr 121:1096-7 Ag 29 '25

LAKE Washington ship canal. See Canals—Washington (state)

LAKELAND, Florida
Great program of public improvements at Lakeland, Florida. Munic & Co Eng 67:92 Ag '24

LAKES
Finger Lakes of central New York. V. E. Monnett. il map Am J Sci 5th ser 8:33-53 Jl '24
Les lacs, leur mode de formation—leurs eaux —leur destin. L. W. Collet. 320p G. Doin, Paris '25

See also Great Lakes; Sabine Lake, Texas

LAMB, Thomas W.
Work of Thomas W. Lamb, architect. il Arch Forum 42:377-80 Je '25

LAMBS
Gives farmers more money. C. B. Sherman. Am Bankers Assn J 17:450+ Ja '25

LAMBTON, Ontario

Waterworks

Lambton water works system. R. O. Wynne-Roberts. il Can Eng 47:589-90 D 9 '24

LAMELLA construction. See Roofs

LAMINATED construction. See Plywood; Wood—Testing

LAMME, Benjamin Garver, 1864-1924
Achievements of Benjamin G. Lamme. por Ind Eng 82:358-9+ Ag '24

LAMME, Benjamin Garver—*Continued*
Electrical engineer—pioneer, leader, educator. C: F. Scott. por (front) J Eng Educ 15:350-7 Ja '25
Sketch. por Elec Ry J 64:72 Jl '24; Elec W 84:82 Jl 12 '24; Power 60:101-2, 114 Jl 15 '24; Blast F & Steel Pl 12:384 Ag '24; Mech Eng 46:571 S '24; Am Ind 25:26 Ag '24; Bankers M 109:374 S '24; Sci Am 131:157 S '24; Sibley J 39:293-5 Mr '25
Tribute. H. P. Davis. por Elec J 21:353-4 Ag '24

LAMPBLACK. See Carbon black

LAMPS
See Automobiles—Lighting; Electric lamps; Gas lamps; Lanterns; Reflectors; Searchlights

LAMPS, Electric. See Electric lamps

LAMPS, Gas. See Gas lamps

LAMPS, Mine. See Safety lamps

LAND
Big land problem just around the corner. C. B. Sherman. Am Bankers Assn J 17:548+ Mr '25
Elements of land economics. R: T. Ely and E: W. Morehouse. 363p [bibliog. p. 335-42] Macmillan '24
Field of land utilization. L. C. Gray. J Land & Pub Util Econ 1:152-9 Ap '25
Relation of the engineer to land economics. R. T. Ely and G. S. Wehrwein. Prof Eng 10:8-10+ O '25
See also Agriculture; Clearing of land; Coal lands; Drainage; Eminent domain; Irrigation; Land banks; Land tenure; Landlord and tenant; Mineral lands; Oil lands; Public lands; Real estate business; Real property; Reclamation of land; Rent; School lands; Watersheds; Wilderness areas; *also* Institute for research in land economics and public utilities

Classification

Theory and practice in land classification. P. S. Lovejoy. chart maps J Land & Pub Util Econ 1:160-75 Ap '25

Taxation

Land-value policy. J. D. White. 205p United committee for taxation of land values, London '24
Taxation of land in Austria. J: V. Van Sickle. J Land & Pub Util Econ 1:215-25 Ap '25

Valuation

See Assessment; Land values

LAND banks
Bulletin of C. F. Childs & co. relative to farm loan bonds. Comm & Fin Chr 121:530 Ag 1 '25
Dirt farmers take leadership in joint stock banks. F. Dunne. Forbes 16:883-5 O 1 '25
Land banks play big part in U.S. prosperity. W: A. McGarry. Forbes 16:879-80+ O 1 '25
Loans closed by Federal and joint stock land banks since organization. Comm & Fin Chr 118:737-8 F 16 '24
Magnitude of operations of federal land banks and of the joint stock land banks. Comm & Fin Chr 119:29 Jl 5 '24
Magnitude of operations of federal land banks and of the joint stock land banks. Comm & Fin Chr 119:2713; 120:651-2; 121:794 D 13 '24, F 7, Ag 15 '25
New issue of $35,000,000 Federal land bank bonds sold. Comm & Fin Chr 118:3032 Je 21 '24
Offering of bond issue of New York & New Jersey joint stock land bank of Newark, N.J. Comm & Fin Chr 118:2382-3 My 17 '24
Offering of bonds of Atlanta joint stock land bank. Comm & Fin Chr 118:1477 Mr 29 '24
Offering of bonds of Chicago joint stock land bank. Comm & Fin Chr 117:2165 N 17 '23
Offering of bonds of First-Trust joint stock land bank of Chicago. Comm & Fin Chr 117:2049 N 10 '23
Offering of bonds of Kansas City joint stock land bank and New York joint stock land bank. Comm & Fin Chr 121:1863-4 O 17 '25
Offering of bonds of Liberty Central joint stock land bank of St Louis. Comm & Fin Chr 118:2126 My 3 '24
Offering of bonds of Pennsylvania joint stock land bank. Comm & Fin Chr 121:1748 O 10 '25
Offering of bonds of Tennessee and Mississippi joint stock land banks. Comm & Fin Chr 121:2107 O 31 '25
Offering of bonds of the Burlington (Iowa) joint stock land bank. Comm & Fin Chr 117:2380 D 1 '23
Offering of bonds of the Potomac joint stock land bank. Comm & Fin Chr 118:1477; 119:1237-8 Mr 29, S 13 '24
Offering of bonds of Virginian and of St Louis joint stock land banks. Comm & Fin Chr 121:2222 N 7 '25
Offering of capital stock of Chicago joint stock land bank and Missouri joint stock land bank bonds. Comm & Fin Chr 117:2487 D 8 '23
Offering of capital stock of Virginian joint stock land bank, Union joint stock land bank of Detroit and Fletcher joint stock land bank. Comm & Fin Chr 121:1526-7 S 26 '25
Offering of Des Moines joint stock land bank bonds. Comm & Fin Chr 118:145 Ja 12 '24
Offering of five issues of joint stock land bank bonds, totaling $4,000,000. Comm & Fin Chr 117:2050 N 10 '23
Offering of $5,000,000 bonds of Chicago joint stock land bank; $1,000,000 bonds of Ohio-Pennsylvania joint stock land bank. Comm & Fin Chr 121:1634 O 3 '25
Offering of Kentucky joint stock land bank bonds. Comm & Fin Chr 117:2379-80 D 1 '23
Offering of Lincoln joint stock land bank bonds. Comm & Fin Chr 117:2380 D 1 '23
Offering of $1,000,000 bonds of Central Iowa joint stock land bank. Comm & Fin Chr 117:2379 D 1 '23
Opportunities for investors. E: L. Barnes. Forbes 16:946-7 O 1 '25
Report of I.B.A. real estate securities committee. Comm & Fin Chr 119:1460-1 S 27 '24
Revolutionizing rural America by cheap farm loans G. Huston. Forbes 16:875-6+ O 1 '25
Shares in joint stock land banks yield well and offer sound investments. R. V. Sykes. Forbes 15:648-9 F 15 '25
$26,500,000 new offer of Federal land bank 4½% bonds. Comm & Fin Chr 120:2639 My 23 '25
See also Federal farm land banks

Advertising

Fanning the desert air; Ohio-Pennsylvania joint stock land bank advertises to farmers. E. C. Norman. Ptr Ink 126:113+ Ja 10 '24
Federal land banks ready for third advertising step. A. E. Haase. Ptr Ink 132:65-6+ S 24 '25

LAND drainage. See Drainage

LAND economics and public utilities. See Institute for research in land economics and public utilities

LAND grants
Kentucky land grants. W: R. Jillson. 1844p Standard printing co., inc., Louisville, Ky. '25
See also Railroad land grants

LAND laws. See Land tenure

LAND settlement. See Agricultural colonization

LAND tenure
History of the public land policies. B: H. Hibbard. 591p Macmillan '24
See also Agricultural colonization; Farm tenancy; Homestead law; Landlord and tenant; Mineral lands; Oil lands

LAND tenure—*Continued*

Canada

Rural planning—a Canadian immigration policy. N. Cauchon. Can Eng 46:559-60 My 27 '24

Czechoslovakia

Social aspects of land reform in Czechoslovakia. Int Labour R 12:46-64, 225-44 Jl-Ag '25

Esthonia

Land law of Esthonia. A. Pranspill. Monthly Labor R 18:751-7 Ap '24

Great Britain

Land ownership in England since the war. H: Rew. J Land & Pub Util Econ 1:18-22 Ja '25

Liberal land policy. Economist 99:762-4, 806-7 N 15-22 '24

North Dakota

Large land holdings in North Dakota. A. H. Benton. map J Land & Pub Util Econ 1: 405-13 O '25

Scotland

Income of tenants on a Scotch open-field farm in the eighteenth century. I. F. Grant. Econ J 34:83-9 Mr '24

United States

Alien land law sustained by the United States Supreme court. Comm & Fin Chr 117:2152-3 N 17 '23

Legislation against the oriental farmer. I. Borchers. J Land & Pub Util Econ 1:509-12 O '25

Public leasehold system in the United States. M. L. Shine. J Land & Pub Util Econ 1: 322-35 Jl '25

LAND values

First principles in land valuation. B: M. Anderson, jr. Chase Econ Bul 4:24-32 O 23 '24

Increments in land values in Philadelphia. W. N. Loucks. J Land & Pub Util Econ 1:469-77 O '25

LANDLORD and tenant

German law for protection of tenants. Monthly Labor R 17:1158-60 N '23

Landlord's side of it. T: J. Malone. Nation's Business 13:31-3 F '25

See also Housing laws; Leases; Rent

LANDSCAPE architecture. See Landscape gardening

LANDSCAPE drawing

Way to sketch. V. Blake. 111p Oxford '25

LANDSCAPE gardening

Architect, landscape architect, and decorator. F. Kimball. Arch Rec 55:499-500 My '24

Beautifying the small home grounds. il Bldg Age 46:70-1 Mr '24

Beautifying water works properties. C. S. Denman. il (fold pl) Am Water Works Assn J 14:289-94 O '25; Same. il Eng & Contr (W W) 64:338-42 Ag 12 '25

Cognomen for "Landscape architecture." G: Burnap. Arch Rec 55:400-1 Ap '24

Country place types of the Middle West. R. R. Root. il plans Arch Rec 55:1-32 Ja '24

El Descansadero; a garden under lath. L. H. Donaldson. il Arch Rec 57:370-9 Ap '25

The Italian garden. L. Dami. 351 pl Brentano's; Review, by A. W. Colton. Arch Rec 58:395-9 O '25

Landscape architecture—an opportunity and an obligation. P. H. Elwood, jr. il Am Arch 128:383-8 N 5 '25

Planting in relation to architecture. E. Rehmann. il Arch Forum 43:17-20 Jl '25

Style and expression in landscape architecture. C: D. Lay. il Arch Forum 41:1-8 Jl '24

See also Gardens; Golf links; Parks; *also* Vaux-le-Vicomte, France

Exhibitions

Exhibition of New York chapter of the American society of landscape architects. C. Fowler. il Am Arch 127:285-8, pl 77-80 Mr 25 '25

Exhibition of the Society of landscape architects in Boston, February 19 to March 1, 1924. F. C. Brown. Arch Rec 55:398-400 Ap '24

LANDSLIDES

Drainage tunnels overcome great landslides on O.W.R. & N. il diags map Ry Age 77:975-8 N 29 '24; Same. Eng & Contr (Ry) 63:153-8 Ja 21 '25

Landslide dams the Gros Ventre river in wide canyon. il Eng N 95:116 Jl 16 '25

Northern Pacific builds fences to detect rock slides. C. A. Christofferson. il diag Ry Age 79:151 Jl 18 '25; Same. Eng & Contr (G C) 64:904 O 21 '25

180-ft. dam formed by landslide in Gros Ventre Canyon. F. B. Emerson. il map Eng N 95:467-8 S 17 '25; Discussion. R. Neilson. 95:1044 D 24 '25

Protecting West Virginia highways from sliding hill damage. il Eng N 94:30 Ja 1 '25; Same. Eng & Contr (R & S) 63:256 F 4 '25

Some remarkable landslides. il Aera 13:1458-62 Ap '25

See also Subsidences (earth movements)

LANDWEHR, A. H.

How this man doubles his business every two years; Holland furnace co. N. M. Clark. por Forbes 16:439-42+ Jl 1 '25

LANETT, Alabama

True sketch of a southern cotton mill town. D. H. Clarke. il Manuf Rec 88:80-1 Jl 23 '25

LANG, Anton

Oberammergau comes to America through the microphone. il Wireless Age 11:34-5 F '24

The potter of Oberammergau. por Brick & Clay Rec 64:119-20 Ja 22 '24

LANGLEY flying machine

Wright-Langley controversy. O. Wright; C: D. Walcott. il Aviation 18:550-1, 642 My 18, Je 8 '25

Wright-Langley dispute revived. J: Goldstrom. Am Ind 25:29-30 Je '25

LANGUAGE

See Speech; Writing

LANGUAGES, Modern

See also English language

Study and teaching

Languages in technical education. L. E. Hinkle. J Eng Educ 15:615-22 Ap '25

LANGUAGES, Universal

AIL; the auxiliary international language problem as related to radio. M. Talmey. il Wireless Age 12:9-11+ Ap '25

International language for chemistry; Latin. T. S. Patterson. Soc Chem Ind J (Chem & Ind) 43:380 Ap 11 '24; Discussion. 43:487-90 My 9 '24

See also Esperanto; Ido; Ilo

LANSING, Michigan

Sanitary affairs

Michigan lower court enjoins use of Lansing garbage piggery. Eng N 94:483 Mr 19 '25

LANTERN projection

Der bildwerfer als hilfsmittel für technische vorträge. P. v. Denffer. il diags Zeit Ver Deutsch Ing 68:413-15 Ap 26 '24

LANTERNS

Comparative tests of oil and electric lanterns. Ry Age 78:1227 My 16 '25

New development in long time burning switch lamps. il Ry Age 79:187-8 Jl 25 '25

Advertisements

Dietz lantern plan of mending its fences. C: G. Muller. Ptr Ink 129:105-6+ D 25 '24

Manufacture

Making copper lanterns. il diags Sheet Metal Worker 16:627+ S 25 '25

LANTERNS, Electric. See Electric lanterns

LAPLAND
See Gold mines and mining—Lapland

LA PLATA river
New Mexico-Colorado water compact ratified by Congress. Eng N 94:431 Mr 12 '25

LAPPING
Commercial cylindrical lapping of piston pins. C. T. Appleton. il Mach 32:105-7 O '25
Importance of lapping. O. C. Kavle. diag Mach 31:817-18 Je '25
Precise cylindrical lapping. P. M. Mueller. il diags Mech Eng 47:701-4 S '25; Same cond. Mach 32:60-2 S '25; Same cond. Am Mach 63:439-40 S 10 '25
Precision lapping. W: E. Hoke. diag Mach 31:593-6 Ap '25

LAPPING machines
Besly crankshaft lapping machines. il Am Mach 61:517-18 S 25 '24; Iron Age 114:699 S 18 '24; Mach 31:147-8 O '24
Bethel-Player crankshaft-lapping machine. il Am Mach 62:941-2 Je 11 '25
Bethel-Player lapping machine for repetition cylindrical and flat work. il diags Engineering 120:90-1 Jl 17 '25
Mirra lapping machine. il Am Mach 61:170 Jl 24 '24; Automotive Ind 51:240 Jl 31 '24; Iron Age 114:256 Jl 31 '24; Blast F & Steel Pl 12:391 Ag '24; Mach 30:990-1 Ag '24

LARCENY. See Theft

LARD
Production, prices, etc., 1916-1923. Survey of Cur Business 31:54 Mr '24

Manufacture

Producing wax and lard by mechanical refrigeration. H. J. Macintire. diags plan Chem & Met Eng 31:699-701 N 3 '24; Discussion. A. G. Wikoff. 32:170 Ja 26 '25

LA ROCHELLE, France

Harbor

Les agrandissements du port de La Rochelle. A. Pawlowski. il diags maps Génie Civil 85: 265-9 S 27 '24

LARYNX, Artificial
Rubber artificial larynx. il diag India Rubber W 71:340-1 Mr '25; Same. Sci Am 133: 123-4 Ag '25

LATCHES
Early colonial hand forged iron work. M. S. Teller. il diag plan Arch Rec 57:395-416 My '25

LATENT heat
Back to first principles. T. W. Reynolds. diags Heat & Ven 21:56-7 Je '24
Table of latent heats of substances. Am Gas J 122:443 My 23 '25

LATERITE
Origin, distribution and composition of laterite. C. O. Swanson. Am Cer Soc J 6:1248-60 D '23

LATH construction
El Descansadero; a garden under lath. L. H. Donaldson. il Arch Rec 57:370-9 Ap '25

LATHAM litho & printing company, Long Island City, N.Y.
An hour in the factory of the Latham litho & printing company. il Am Arch 126:139-41, pl 62-4 Ag 13 '24

LATHES
Adapting the lathe to production work. J. Lannen. il diag Mach 30:927-8 Ag '24
American super-productive lathe. Mach 30: 726-7 My '24; Iron Age 113:1223-4 Ap 24 '24
Arc grinding in the lathe. R. A. Black. diags Mach 31:207-8 N '24
Bed design of the Buckman 8½-in. center lathe; abstract. diag Mech Eng 46:218 Ap '24
Betts improved journal truing and axle lathe. il Iron Age 113:167 Ja 10 '24
Boring concentric slots. P. F. Shafran. diags Mach 31:208-9 N '24
Broaching rectangular slots in the lathe. W. C. Johnson. il diag Mach 31:42 S '24
Cam groove planing in the lathe. H. C. Ten Horn. diags Mach 31:112-13 O '24
Carroll & Jamieson lathes, 15-inch and 16-inch. il Am Mach 63:522-3 S 24 '25; Mach 32:157 O '25
Cisco geared head lathe in six sizes. il Iron Age 113:1428 My 15 '24
Die deutsche drehbank des jahres 1925. B. Buxbaum. il diag Zeit Ver Deutsch Ing 69: 261-4 F 28 '25
Development of machine tools in New England. G. Hubbard. il diags Am Mach 60:271-4 F 21 '24
Double-ended lathe for back axles by Smith & Coventry, ltd. il Automobile Eng 15:300 S '25
Drawback chuck operated by a push rod. diags Am Mach 58:772; 60:118-19, 632 My 24 '23, Ja 17, Ap 24 '24
Duomatic automatic lathe. il Iron Age 113: 1586 My 29 '24; Automotive Ind 50:1186-7 My 29 '24
Duplex wheel-centre boring and turning lathe. il diags Engineer 140:330-1 S 25 '25
Economic efficiency of the full-automatic turret lathe in comparison with the semi-turret lathe. R. J. Wadd. Mech Eng 47: 411-14 sec 2 My '25
Elliptical turret lathe operations. C: O. Herb. il diags Mach 32:180-1 N '25
Exe 2½-inch screw-cutting and turret lathes. il diags Engineering 119:120-1 Ja 23 '25
Experiments with lathe tools on fine cuts, and some physical properties of the tool steels and metal operated upon. D. Smith and A. Leigh. diags Engineering 119:364-6 Mr 20 '25; Abstract. Engineer 139:319-20 Mr 20 '25; Discussion. Engineering 119:357-8 Mr 20 '25; Engineer 139:320 Mr 20 '25
Gisholt powerful turret lathe and tooling arrangement. il diags Ry Mech Eng 98:128 F '24
Heavy duty lathe provided with a rapid power traverse screw. il Ry Mech Eng 98: 503-5 Ag '24
Heavy turret lathe work; finishing locomotive power-reverse cylinders. C: O. Herb. il diags Mach 31:706-8 My '25
High-production machines in the automobile shops; the simplimatic lathe. il Am Mach 61:191-4 Jl 31 '24
Hobbing in the lathe. F. H. Mayoh. diags Mach 31:293-4 D '24
Interlocking devices. A. Clegg. diags Mach 30:526-8 Mr '24
Lathe attachment for turning lift shaft ends. diags Ry Mech Eng 98:332 Je '24
Lathe attachment of cutting elliptical grooves. O. L. Kampschaefer. il Mach 30: 716 My '24
Lathe equipped for milling irregular grooves. S. Almond. il diag Mach 31:370 Ja '25
Lathe users' handbook. C. M. Linley. 194p Van Nostrand '23
Lathe-work. P. N. Hasluck. 11th ed., rev. & enl. 244p Van Nostrand '23
Lathes at the Olympia exposition. il diags Engineering 118:309-13, 356-8, pl 28, 35-7 S 5-12 '24
Lathes, their construction and operation. G: W. Burley. 2d ed., rev. 240p Van Nostrand '23
LeBlond geared-head sliding-bed gap lathe. il Am Mach 60:789 My 22 '24
Le Blond multi-cut lathe. diags Am Mach 61: 380-1 S 4 '24
LeBlond 17-inch lathe. Iron Age 113:435, 1868 F 7, Je 26 '24
Locomotive crank axle lathe. il diags Engineer 137:456, 457 Ap 25 '24
Machining differential housings on a universal turret lathe. I. F. Yeoman. il diags Mach 31:217-19 N '24
Machining differential side gears. O. S. Marshall. il diags Mach 32:118-19 O '25
Making sprockets in a lathe. A. J. Weis. diags Mach 30:928-9 Ag '24
Master tools of industry. D. S. Kimball. il Am Mach 60:679-83, 723-7 My 8-15 '24
Morris 22-inch geared head lathe. il Iron Age 113:1154 Ap 17 '24

LATHES—*Continued*
Multiple tool post expedites turning. il Elec Ry J 63:626 Ap 19 '24
Niles-Bement-Pond car-wheel lathe, no. 4. il Am Mach 62:903-4 Je 4 '25; Iron Age 115: 1638 Je 4 '25; Ry Mech Eng 99:376-7 Je '25
Niles-Bement-Pond combined lathe and grinder, 113-in. il Am Mach 62:859-60 My 28 '25; Iron Age 115:1559-60 My 28 '25; Mach 31:826-7 Je '25
Niles-Bement-Pond crankshaft lathe 48-in., heavy duty. il Am Mach 62:716 Ap 30 '25; Iron Age 115:1340 My 7 '25
Niles-Bement-Pond heavy-duty lathe. il Am Mach 61:33-4 Jl 3 '24; Iron Age 114:10+ Jl 3 '24
Plain-head turret lathe as a chucking machine; abstract. E. W. Field. plan Mech Eng 46: 217-18 Ap '24
Popular mechanics lathe handbook number one. 87p Popular mechanics press, Chicago '24
Porter-McLeod engine lathes. Am Mach 61: 169 Jl 24 '24
Potter & Johnston 6-C automatic chucking and turning machine. il Am Mach 59:781-2 N 22 '23
Pratt & Whitney 13 in. model B lathe. il Ry Mech Eng 98:394 Je '24; Iron Age 113:1646 Je 5 '24
Pulley-crowning attachment for a lathe. J. Williams. il Am Mach 61:394 S 4 '24
Reed-Prentice hollow-spindle lathe. il diags Am Mach 61:591-2 O 9 '24; Automotive Ind 51:774-5 O 30 '24; Iron Age 114:916 O 9 '24
Reed-Prentice no. 2 production lathe. il Am Mach 61:40 Jl 3 '24; Iron Age 114:26 Jl 3 '24; Automotive Ind 50:1375 Je 26 '24
Schellenbach multiple diameter stop. il Am Mach 62:331 F 19 '25; Mach 31:576-7 Mr '25
Semi-automatic lathe of interesting design. C. C. Walker. diags Mach 30:870-3 Jl '24
Special tooling for large turret-lathe work. il Am Mach 62:470-1 Mr 19 '25
Sundstrand double-spindle semi-automatic bushing-turning lathe. il Am Mach 62:215-16 Ja 29 '25; Iron Age 15:353 Ja 29 '25; Mach 31:489 F '25
Super-production 26 and 30 inch engine lathes. il Iron Age 114:1284 N 13 '24
Tailstock turret for lathe. H: Simon. diag Mach 31:23 S '24
Threads by broaching. il Iron Age 116:1117 O 22 '25
30-ft. lathe built in San Francisco in 1865. F: H. Colvin. il Am Mach 59:847-8 D 6 '23
3½-in. centre, back-geared, self-acting lathe. il diags Engineering 118:66, 67-8 Jl 11 '24
Turret lathe in the railroad shop. il diags Mach 31:346-8 Ja '25
Typical turret-lathe tooling. F. H. Colvin. il diags Am Mach 62:373-5; 63:353-5 Mr 5, Ag 27 '25
Die untersuchung der dreharbeit. H. Klopstock. il Zeit Ver Deutsch Ing 69:215-21 F 21 '25
Veneer-cutting lathe for plywood. il diag Engineering 120:182 Ag 7 '25
Wade back-geared screw-cutting lathe. il diags Engineering 118:749 N 28 '24
Warner & Swasey no. 1-A hollow hexagon turret lathe. il Am Mach 61:551-2 O 2 '24; Automotive Ind 51:652-3 O 9 '24; Iron Age 114:855 O 2 '24; Ry Mech Eng 98:706-7 N '24
Warner & Swasey turret lathes. diags Am Mach 61:724-5 N 6 '24
What modern machine tools are doing; Cincinnati Acme turret lathes. diags Am Mach 61:540-1 O 2 '24
What modern machine tools are doing; the Libby turret lathe. diags Am Mach 62:164-5 Ja 22 '25
Work of the bench lathe. F. D. Jones. il Mach 30:960-4; 31:26-31 Ag-S '24
Worm grinding in the lathe. J. W. Armour. il diag Mach 30:859-60 Jl '24

See also Machine shop practice; Machine tools; Screw machines; Turning

Manufacture

Building lathes interchangeably. C: O. Herb. il Mach 30:758-61 Je '24
How the Hendey shop builds engine lathes. il Am Mach 59:950-1 D 27 '23
Inspection system in a lathe building plant. H. S. Riggs. il Mach 30:835-41 Jl '24

Safety devices

Hood protects lathe operator. il Elec Ry J 66:248 Ag 15 '25

Specifications

Engine lathe specifications; data sheets. Mach 30:850a Jl '24

Testing

Checking lathes for accuracy. il diag Mach 31:195-9 N '24
Lathe tools research. D. Smith. Engineer 139:389 Ap 3 '25

LATHS
Sound insulating properties of partition walls (chiefly lath and plaster). E. A. Eckhardt and V. L. Chrisler. il diag Am Arch 128: 405-11 N 5 '25

See also Lath construction

Tables, calculations, etc.

Handy chart for figuring lath. N. G. Near. Arch & Bldg 56:34 Ap '24

LATIN America
Adventures in overseas selling. B. Lawson. Sales Management 7:1335-6+ Ag '24
Electrical progress in Latin America. Elec R (Lond) 95:912-13 D 12 '24
President Coolidge commends Latin-American rule of arbitration as worthy of study by those seeking means of preventing wars—gift of statute of General Jose de San Martin. Comm & Fin Chr 121:2230-1 N 7 '25
Sell the government first—if you would succeed in Latin America. B. S. Gili. il Sales Management 7:1371-2+ Ag '24

See also Electric industries—Latin America; Finance—South America; Roads—Latin America; South America; Water supply—Latin America

Bibliography

Catalogue of books, pamphlets, maps, etc., 500 items, relating to America-south-of-U.S.; supp. 400 items. For sale by Edward W. Ames, 44 W. 47th st., New York '24
List of the publications published or distributed by the Pan American union, Washington, D.C. 15p Pan American union, Washington, D.C. '23

Commerce

Commerce broadens as trade routes to Latin America grow shorter. L. O. Welcome. il Dun's Int R 44:44-6 Ja '25
Foreign markets for confectionery. U S Bur For & Dom Com Trade Information Bul 307:1-24 '25
Latin American foreign trade in 1923; general survey. 10p Pan American union, Washington '24
Latin American market for sporting and athletic goods. C. J. North. U S Bur For & Dom Com Trade Information Bul 232:1-34 '24
Nonintoxicating beverages in Latin America. U S Bur For & Dom Com Trade Information Bul 260:1-22 '24
Our economic linking with Latin America. A. G. Cameron. il Forbes 14:380-1 Je 21 '24
Our three billion dollar stake in Latin America. G: E. Roberts. Am Bankers Assn J 17: 744+ Je '25; Same. Econ W n s 29:906-8 Je 27 '25
United States trade with Latin America in 1923. J. R. McKey. U S Bur For & Dom Com Trade Information Bul 224:1-48 '24

LATIN AMERICA—Commerce—*Continued*
United States trade with Latin America in 1924. J. R. McKey and H. S. Giusta. U S Bur For & Dom Com Trade Information Bul 345:1-48 '25

See also Commercial law—Latin America

Economic conditions

Foreign exchange in Latin America; survey of conditions since 1914. C: A. McQueen. U S Bur For & Dom Com Trade Information Bul 316:1-55 '25

Industries and resources

Gums and resins of Latin America. O: Wilson. il Chem & Met Eng 31:374-6 S 8 '24
Latin America as a source of tanning materials. O: Wilson. il Chem & Met Eng 30: 303-5, 398-9 F 25, Mr 10 '24

LATITUDE
Ward method of meridian and latitude determination. H. R. Ward. Eng & Min J 119:797-8 My 16 '25; Same. Eng N 95:25 Jl 2 '25; Discussion. Eng & Min J 119:973 Je 13 '25; Eng N 95:606 O 8 '25

LATVIA
New Baltic states; Latvia. Economist 99:89 Jl 19 '24

See also Automobile industry and trade—Latvia; Debts, Public—Latvia

Commerce

Latvia's trade increasing. World's Markets 15:15-16 Mr '24

LAUNCHING
Airplane carrier Saratoga launched at Camden. il Marine Eng 30:258-9 My '25
Launching a new bow for a salved steamship. il diags Engineering 116:580-2, 594 N 9 '23
Launching lubricating materials. H. H. Thayer. Marine Eng 29:44-5 Ja '24
Launching the airplane carrier Saratoga. E. H. Rigg. il diag Marine Eng 30:391-5 Jl '25; Discussion. 30:699 D '25
Novel checking device used in launching U.S. airplane carrier Lexington. il Marine Eng 30:604-5+ N '25
Unique electrical device used in launching first Ford motorship. il Marine Eng 29:302 My '24

LAUNCHING of airplanes. See Airplanes—Launching

LAUNDERS
Development of the rotary pipe conveyor. E: W. Davis. il diags Eng & Min J 119:157-9 Ja 24 '25
Grades of mill launders. W. J. Tait. Eng & Min J 119:170 Ja 24 '25
Rubber better than steel for launder lining. R. L. Naish. il Eng & Min J 117:22 Ja 5 '24

LAUNDRIES
Why we have no "high hats" in our business. A. T. Downer. il System 47:761-4+ Je '25

Advertising

Solving that opening day problem. A. D. Williams. Ptr Ink 127:105-6 Je 12 '24

Electric equipment

Modern laundry electrification. F. Bates. il Elec W 86:226-7 Ag 1 '25

Equipment

Applying conveyors to laundry service. il Management & Adm 8:26 Jl '24
Gas-fired laundry equipment. W. B. Stoddard. il Am Gas J 123:183-4 Ag 29 '25
Gas for laundries. Gas J (Lond) sup 3:193 O 22 '24
Laundry installations. E. W. Riesbeck. il diags plans Dom Eng 107:20-5+ Ap 19 '24
New industrial laundry drying apparatus developed. il diag Gas Age 56:129-30 Jl 25 '25
Selling more gas for home laundry consumption. H. M. Bennett. Gas Age 55:169-70+ Ja 31 '25; Same cond. Am Gas J 122:225-6+ Mr 14 '25

See also Laundry machinery

Heating and ventilation

Laundry trade; atmospheric conditions in laundries. M. Smith. J Ind Hygiene 7: 166-70 Ap '25

Power

Generated vs. purchased power in various industries; report of Pacific coast electrical association. J Elec 54:412-15 Je 1 '25
Modern laundry power plant. il Power 59:162-4 Ja 29 '24
Purchased power for laundry drive. G. W. Quentin and L. J. Lamberger. Elec W 83: 486-8 Mr 8 '24

Safety devices and measures

Safety code for laundry machinery and operations. U S Bur Labor Statistics Bul 375:1-12 '24

LAUNDRIES, Mine
Company laundries and bathhouse for mining towns. W. F. Bovard. diag plan Coal Age 25:244 F 14 '24

LAUNDRY
Coloured fabrics in the laundry. C. F. Townsend. Textile Inst J 16:P334-5 N '25; Abstract. Chem Age (Lond) 13:420 O 24 '25
Colored goods and the laundry. G: H. Johnson Am Dyestuff Rep 14:681-5+ O 19 '25
Control of laundry operations. R. G. Parker. 241p British launderers' research assn., Hendon, Eng. '25
Hotel laundry. J: J. Phillips. il plans Arch Forum 39:235-7 N '23
Laundering, home—institution. L. R. Balderston. 389p Lippincott '23
Laundry research and the textile industry. G: H. Johnson. Textile World 66:863-4+ Ag 16 '24
Laundryowner and the chemist. F. P. Guernsey. Color Tr J 15:180-1 D '24
Manganese in laundry and pipe lines. H. C. Kneeland. Am Water Works Assn J 13: 436-8 Ap '25
Manual of standard practice for the power-laundry washroom. 2d ed. 187p Laundryowners national assn., La Salle, Ill. '24
Relations of mill and laundry. C. A. Harrison. Textile World 65:2527+ Ap 12 '24
Scientific washing. F. H. Guernsey. il Am Dyestuff Rep 13:287-90, 325-6, 518-20+; 14: 177-80 My 5-19, Ag 11 '24, Mr 23 '25
Some lectures on laundry technology. D. E. Tuttle. 22 numb. l. D. E. Tuttle, Cincinnati '24
Splendid research work of laundryowners. W. E. Fitch. Brick & Clay Rec 65:307-8 S 2 '24
Textiles and the modern laundry; abstract. C: Dorée. Textile Inst J 15:P67-9 Mr '24; Same. Color Tr J 14:165-6 My '24
To improve laundering qualities. Textile World 65:3154+ My 10 '24
Use of alkali in scientific washing. F. H. Guernsey. Color Tr J 13:208-11 D '23
Use of stannous chlorine in fluoride sours; patent. Color Tr J 16:148 My '25

LAUNDRY machinery
Laundry installations. E. W. Riesbeck. il diags plans Dom Eng 107:20-5+ Ap 19 '24

See also Ironing machines; Washing machines

LAUNDRY workers
Effect of working conditions in steam laundries upon health of workers. Monthly Labor R 20:152-5 Ja '25
Fatigue in the washing departments of the New York steam laundries. M. R. Mayers. il J Ind Hygiene 6:270-80 N '24
Laundry trade; a study in activity and fatigue. M. Smith. il J Ind Hygiene 5:447-56; 6:14-19 Ap-My '24

LAVA
Lavas of Barren Island and Narcondam. H: S. Washington. il Am J Sci 5th ser 7:441-56 Je '24

LAVASUL
Permanent tank material. il Chem & Met Eng 30:157-8 Ja 28 '24

LAVATORIES

Ventilation

Locker room ventilation and how it is obtained. R. C. Nason. diags plan Sanitary & Heat Eng 101:304-6 My 16 '24

LAVAUD, Sensaud de
Sketch. Automotive Ind 52:1059 Je 18 '25

LAW
Accountant and the law. J. H. Covington. J Account 40:267-75 O '25
Accountant's duty to uncover questions of law. H. D. Greeley. J Account 40:23-36 Jl '25
Law and economic life. J. M. Clark. Univ J of Business 3:350-77; 4:47-70 S-D '25

See also Advertising—Laws and regulations; Aeronautics—Laws and regulations; Automobile laws and regulations; Banking law; Building laws and regulations; Commercial law; Contracts; Copyright; Corporation law; Damages; Debtor and creditor; Eminent domain; Engineering law; Fixtures (law); Government regulation of industry; Highway law; Industrial laws and legislation; Insurance law; Labor laws and legislation; Landlord and tenant; Legislation; Liens; Lighting—Laws and regulations; Maritime law; Mechanics' liens; Mining law; Motor bus lines—Laws and regulations; Motor vehicles—Law; Nuisances; Patent laws and legislation; Patents; Petroleum laws and regulations; Railroad law; Real property; Sales; Textile laws and regulations; Trade marks; Water laws and legislation; Waterworks—Laws and regulations; Witnesses

LAW schools
Statistics and standards of American law schools. J Eng Educ 15:236 D '24

LAWN mowers
Lawn mowers in the making. il Am Mach 62:586-7 Ap 9 '25

LAWSON, Thomas W.
Man who paid $30,000 for a flower. Comm & Fin 14:288 F 11 '25

LAWSON, Victor F., 1850-1925
Sketch. por Ptr Ink 132:53-4+ Ag 27 '25

LAWYERS
Into business by way of the law. H: Wollman. Nation's Business 12:18-20 N '24

See also Patent lawyers

Advertising

Lawyer who advertised his platform. F. D. Vanover. Ptr Ink 128:76 Ag 14 '24

LAYOUT. See Factories—Layout; Foundries—Layout; Machine shops—Layout; Warehouses—Layout

LAYOUT (printing). See Typesetting—Layout

LEACHING
Some control formulae in leaching and evaporating. F. G. Donnan. Soc Chem Ind J 42:440-2 N 16 '23
Technology of leaching and extraction. A. W. Allen. il diags Chem & Met Eng 32:561-5 Je '25

See also Hydrometallurgy

LEAD
Action of benzol wash oils on lead. A. Schneider and E. Jenniger. Am Gas J 120: 51-2 Ja 19 '24
Absorption spectrum of lead vapor in the ultraviolet. R. V. Zumstein. Phys R 26:189-94 Ag '25
Adsorption of catalytically poisonous metals by platinum; the adsorption of lead and mercury. E: B. Maxted. Chem Soc J 127:73-7 Ja '25
Atomic weight of lead from the Belgian Congo. T. W. Richards and P. Putzeys. Am Chem Soc J 45:2954-8 D '23
Catalytic effect of lead and manganese on the drying of China wood oil. G: E. Ludwig. Ind & Eng Chem 17:1160-1 N '25
Cracking the lead atom. A. Smits and A. Karssen. il diag Sci Am 133:230-1 O '25
Deterioration of sheet lead in contact with Portland cement mortar and concrete. Am Arch 127:398-9 Ap 22 '25
Entropies of the vapors of zinc and lead. W. H. Rodebush and A. L. Dixon. Am Chem Soc J 47:1036-43 Ap '25
First use of metals; iron, lead, and zinc. T. A. Rickard. Eng & Min J 117:759-62 My 10 '24
Le gaspillage du plomb, les millions à économiser. F. Binder. Chimie & Ind 13:683-7 Ap '25
How metals stand up against corrosion. Chem & Met Eng 31:74-5 Jl 14 '24; Same. Brass W 20:309-10 S '24
Influence of lead and tin on the brittle ranges of brass. D. Bunting. il Engineering 119:368-70; Discussion. 341 Mr 20 '25
Lead in 1924. Brass W 21:107 Mr '25
Lead; its occurrence in nature, the modes of its extraction, its properties and uses, with some account of its principal compounds. J. A. Smythe. 343p Longmans '23; Review. Engineering 117:152-3 F 1 '24
Lead studies; the phosphates of lead; equilibrium in the system lead oxide-phosphoric anhydride-water at 25°. L. T. Fairhall. Am Chem Soc J 46:1593-8 Jl '24
Lead, the precious metal. O. C. Harn. 323p Century co. '24; Review, by E. E. Slosson. Nation's Business 12:80+ O '24
Lead—the precious metal. E: H. Robie. Eng & Min J 120:747-8 N 7 '25
New lead paint. R. Ditmar. Chem & Met Eng 31:775 N 17 '24
New uses of lead and tin. G: O. Hiers. Metal Ind 22:3 Ja '24
Partition of silver between lead and zinc. W. A. Naish. il diag Brass W 21:309-13 S '25
Studies of electrolytic polarisation; the cathodic overvoltage of lead. S: Glasstone. Chem Soc J 125:2414-23 N '24

See also Lead industry and trade; Lead metallurgy; Lead mines and mining; Red lead; White lead

Analysis

Determination of lead, copper, and tin in drosses. J: H. Hastings. Eng & Min J 118: 293-4 Ag 23 '24
Gravimetric determination of lead in the presence of tin and antimony. E. Stelling. Ind & Eng Chem 16:748 Jl '24
Inexpensive method for determining lead. W. W. Scott. Ind & Eng Chem 17:678 Jl '25

Price quotations

Price quotations for zinc and lead. Eng & Min J 119:931-2; 120:181-2 Je 6, Ag 1 '25

Prices

Copper, lead and rubber in 1924. Elec R (Lond) 96:86 Ja 16 '25
Lead prices in New York. Moody's Inv Serv 16:224 My 29 '24

Specifications

Standard specifications for pig lead. diags Am Soc T M Standards 1923:12-16

LEAD alloys
Action of lead upon alloys. G: A. Drysdale. Foundry 52:349-50 My 1 '24
Grain growth in lead containing one per cent. of antimony. R. S. Dean and W. E. Hudson. il Am Chem Soc J 46:1778-86 Ag '24
Influence of pouring temperature on a lead-base anti-friction alloy; abstracts with discussion. O. W. Ellis. Engineering 120:331 S 11 '25; Engineer 140:260-1 S 11 '25
Insoluble anodes for electrolysis of brine; the lead-silver series. C. G. Fink and Li Chi Pan. Am Electrochem Soc Trans v 46 (preprint 8):129-35 O '24
List of alloys. W: Campbell. Metal Ind 22: 355-6; 23:184 S '24, My '25

LEAD arsenate
Preparation of a basic arsenate of lead of definite composition. L. R. Streeter and R. W. Thatcher. Ind & Eng Chem 16:941-2 S '24

LEAD borate
Lead borates. E. C. Brown and J. R. Partington. Soc Chem Ind J 44:325-6 Jl 10 '25

LEAD burning
Lead burning with the oxyacetylene flame. Engineering 120:365 S 18 '25

LEAD carbonate
Effect of hydrophilic colloids on size and distribution of particles in electrolytic precipitation; gelatin and basic lead carbonate. W. G. France and D. McBurney. Am Chem Soc J 46:540-4 Mr '24
Heat of formation of lead carbonate. A. L. Marshall and B. Bruzs. J Phys Chem 29: 1184-6 S '25

See also White lead

LEAD chlorides
Diazonium tetrachloroiodides and plumbichlorides. F: D. Chattaway, F. L. Garton and G: D: Parkes. Chem Soc J 125:1980-91 O '24
Solubility of slightly soluble chlorides in concentrated chloride solutions. J. Kendall and C: H. Sloan. Am Chem Soc J 47:2306-17 S '25

LEAD chromate
Chromes from the consumer's point of view. P. R. Koekkoek. Chem Age (Lond) 10:64-5 Ja 19 '24
Proposed specifications for chrome yellow. Am Soc T M Pro 24 pt 1:485-6 '24
Use of mineral pigment in dyeing. J. M. Matthews. Color Tr J 14:37-41 F '24

Analysis

Determination of lead as sulphate in chrome yellow. J. W. Bain and R. I. Wynn-Roberts. Can Chem & Met 8:62 Mr '24

LEAD coating
Most economical method of lead coating small articles. Mach 30:890-1 Jl '24
Protective paint coatings; powdered lead. J. N. Tervet. Soc Chem Ind J 44:28-30 Ja 16 '25

LEAD compounds
Lead and its compounds. R. L. Hallett. Chemicals 24:11-12 Ag 31 '25
Organic compounds of lead. G: Calingaert. Chem R 2:43-83 [bibliog. p. 82-3] Ap '25

LEAD industry and trade
Lead industry; North America, South America and Oceania. U S Bur For & Dom Com Trade Information Bul 368:1-47 '25
Lead; marketing and statistics in 1923. I. H. Cornell. Eng & Min J 117:134 Ja 19 '24
Lead shortage. F. E. Wormser. Eng & Min J 117:469 Mr 15 '24
Postwar developments in the lead industry. Comm M 6:21-7 D '24
Present lead situation thruout the world. Comm M 6:28-30 My '24

Statistics

Lead breaks records in 1924. I. H. Cornell. Eng & Min J 119:139-40 Ja 17 '25
Lead production of world gained 11 percent in 1924. Oil Paint & Drug Rep 108:31 N 9 '25
World production and consumption of lead. Econ W n s 29:627 My 2 '25
World production of lead and zinc in 1924. Econ W n s 29:159 Ja 31 '25

Canada

Production of lead in Canada in 1923. Econ W n s 28:268 Ag 23 '24

Missouri

Retains top in lead and zinc. W: J. Nolle. Iron Tr R 75:supl1 Ag 21 '24

United States

Balance sheets for mine and smelter production of domestic copper, lead, and zinc. C. E. Siebenthal. Econ Geol 20:83-96 Ja '25
Does the tariff on lead help the domestic lead producer? F. W. Paine. Eng & Min J 118:902 D 6 '24
Lead and zinc in 1924. Min Cong J 11:64+ F '25
Lead and zinc production in 1923. Comm & Fin Chr 118:23-4 Ja 5 '24; Same abr. Min Cong J 10:82 F '24; Abstract. Iron Age 113: 283 Ja 24 '24
Lead mining in the United States in 1923. C. H. Crane. Eng & Min J 117:84 Ja 19 '24
Lead ore mining in 1924. C. H. Crane. Eng & Min J 119:83 Ja 17 '25
Lead produced in the United States from 1720-1923. Brass W 21:33, 35 Ja '25
Production and consumption of lead in the United States in 1923. Econ W n s 27:880 Je 21 '24

See also National lead company

LEAD-lined pipe. See Pipe lining

LEAD metallurgy
Barium polysulphide in sulphidizing oxidized ores for flotation. E. S. Leaver and H. M. Lawrence. U S Bur Mines Rep of Invest 2698:1-4 Ag '25 (typew)
Complex lead-zinc ores to be treated by chlorination and electrolysis. J. G. Potter. Eng & Min J 117:646 Ap 19 '24
Concentrator snapshots. E: H. Robie. il Eng & Min J 117:596-7 Ap 12 '24
El Paso smelter. G: J. Young. flow sheet il diag Eng & Min J 119:1041-7 Je 27 '25
Hydrometallurgy of lead. O. C. Ralston. Engineering 117:251-2, 319-20 F 22, Mr 7 '24
Lead refining in southern Australia. Chem Age (Lond) 13:sup19 S 5 '25
Lead smelter snapshots. E: H. Robie. il Eng & Min J 117:716-21 My 3 '24
Notes on western lead smelters. A. B. Parsons. il diags Eng & Min J 119:876-83 My 30 '25
Production of antimony and lead. il diag Metal Ind 22:139-42 Ap '24
Progress in hydrometallurgy of lead-zinc ores. A. B. Parsons. flow sheets il Eng & Min J 119:55-61 Ja 10 '25
Selective flotation at Timber Butte. E: H. Robie. flow sheet il Eng & Min J 120:685-9 O 31 '25

LEAD mines and mining

Idaho

Kellogg celebrates Bunker Hill's birthday. A. B. Parsons. il Eng & Min J 118:623-4 O 18 '24

Italy

Primary and secondary ores of the Bottino mines, Italy. C. L. Sagui. Econ Geol 19:542-9 S '24

Mexico

Ahumada lead mine and the ore deposits in the Los Lamentos range, in Mexico. T. A. Rickard. il map plan Eng & Min J 118:365-73 S 6 '24

Oklahoma-Kansas district

Has the Miami-Picher district passed the zenith? K: L. Koelker. map Eng & Min J 117:168-70 Ja 26 '24

Washington (state)

Lead deposits of Pend Oreille and Stevens counties, Washington. O. P. Jenkins. Washington Geol S Bul 31:1-153 '24

LEAD nitrate
Activity coefficients of dilute aqueous solutions of hydrogen chloride, thallous chloride and lead nitrate. M. Randall and A. P. Vanselow. diags Am Chem Soc J 46:2418-37 N '24

LEAD ores
Lead and zinc ores of Pennsylvania. B: L. Miller. 91p [bibliog. p. 20-1, 44-6, 84-5] Penn. Dept. of forests and waters, Harrisburg '24
Transvaal silver-lead deposit. P. A. Wagner. il map Econ Geol 19:651-67 N '24
Upper Mississippi lead and zinc ores. J. E. Spurr. map Eng & Min J 117:246-50, 287-92 F 9-16 '24

See also Galena

LEAD oxides
Action of lead monoxide (litharge) on *o,o'*-dithio-aniline. H. H. Hodgson. Soc Dyers & Col J 41:99-102 Mr '25

LEAD oxides—*Continued*
Crystal structure of tetragonal lead monoxide. R. G. Dickinson and J. B. Friauf. diags Am Chem Soc J 46:2457-63 N '24
Volumetric determination of Pb_3O_4 in red lead. E. F. Figg. Soc Chem Ind J 44:68 F 13 '25

See also Red lead

LEAD pencil. See Pencils

LEAD phosphates
Deposition of lead salts, with a note on the solubilities of di-lead phosphate in water at 25° C. and of di-lead and tri-lead phosphates in lactic acid at 25° C. L. T. Fairhall and C. P. Shaw. bibliog diags J Ind Hygiene 6:159-68 Ag '24
Lead studies; the phosphates of lead; equilibrium in the system lead oxide-phosphoric anhydride-water at 25°. L. T. Fairhall. Am Chem Soc J 46:1593-8 Jl '24

LEAD pipes. See Pipes, Lead

LEAD poisoning
Abstracts of recent articles. J Ind Hygiene 7: sup 10-14 Ja '25
Contribution to the study of punctate basophilia in lead workers. A. Sellers. J Ind Hygiene 7:145-54 Ap '25
Deposition of lead salts, with a note on the solubilities of di-lead phosphate in water at 25° C. and of di-lead and tri-lead phosphates in lactic acid at 25° C. L. T. Fairhall and C. P. Shaw. bibliog diags J Ind Hygiene 6:159-68 Ag '24
Distribution of lead in the human organism. A. S. Minot and J. C. Aub. bibliog J Ind Hygiene 6:149-58 Ag '24
Distribution of lead in the organism after absorption by the gastro-intestinal tract. A. S. Minot. bibliog J Ind Hygiene 6:125-36 Ag '24
Distribution of lead in the organism after absorption by the lungs and subcutaneous tissue. A. S. Minot. bibliog J Ind Hygiene 6: 137-48 Ag '24
Electric accumulator manufacture; lead poisoning as an industrial disease. Elec R (Lond) 94:45-6 Ja 11 '24
Eliminating lead poisoning in paint factories. C. M. Salls. Safety Eng 50:98 Ag '25
Epidemic of lead poisoning caused by the sandpapering of automobile bodies. A. S. Dean. bibliog J Ind Hygiene 6:245-50 O '24; Abstract. Monthly Labor R 19:1348-50 D '24
Lead painting rules proposed in Britain. Oil Paint & Drug Rep 107:31 My 25 '25
Lead poisoning. J. C. Aub and others. (In Medicine. '25, v. 4, p. 1-250). Review by C. K. Drinker. J Ind Hygiene 7:531-7 N '25
Lead poisoning. R. M. Hutton. 304p Ontario. Provincial board of health, Toronto '23
Lead poisoning among pottery workers; abstract. F. Shufflebotham. J Ind Hygiene 6: sup89-90 N '24
Lead stearate poisoning in the rubber industry. H. J. Cronin. Monthly Labor R 20: 1325 Je '25
Manufacture and repair of electric accumulators. C. W. Price and J. C. Bridge. bibliog J Ind Hygiene 7:451-74 O '25
Tetraethyl lead poisoning. Monthly Labor R 20:401-2 F '25
What is lead poisoning? il Sanitary & Heat Eng 103:171-2 Mr 6 '25

See also Gasoline—Ethyl mixtures; Tetraethyl lead

LEAD poisoning of birds
Duck you hit is not the only duck you kill. Sci Am 132:265+ Ap '25

LEAD sulfate
Determination of lead as sulphate. J. W. Bain and R. I. Wynn-Roberts. Can Chem & Met 8:62 Mr '24
Heat of wetting of lead sulfate. W. A. Koehler and J. H. Mathews. diags Am Chem Soc J 46:1158-67 My '24

LEAD sulfide
Rectification of alternating currents by crystals. A. C. James. Philos Mag 6th ser 49: 681-95 Ap '25

See also Galena

LEADED glass. See Glass, Leaded

LEADERS (merchandizing)
What the trade neglected, this manufacturer made a leader; merchandising Honey Scotch candy. J. N. Collins. Ptr Ink 131:113-14+ My 21 '25

See also Advertising—Leaders

LEADERS (printing). See Printing, Practical—Leaders

LEADERS, Roof. See Roof leaders

LEADERSHIP
Psychology of leadership. H: E: Tralle. 234p [bibliog. p. 229-34] Century co. '25
What is a leader? E. Standfuss. Ind Management 70:287-8 N '25

LEADITE
Use of lead substitutes in pipe line construction. L. A. Geupel. Munic & Co Eng 66:243-6 My '24
Yarning leadite joints. Pub Works 55:384 D '24

LEAGUE of nations
Austria, saved by the League of nations, wants her independence. E. Lengyel. Annalist 24:101 Jl 28 '24
British Prime Minister Ramsay MacDonald says we must have proper system of arbitration—would have Germany in League of nations. Comm & Fin Chr 119:1239-41 S 13 '24
Conclusions of committee of League of nations respecting administrative reforms of Austria. Comm & Fin Chr 120:893-4 F 21 '25
Economic and technical work of the League of nations. E. J. Mehren. Eng N 93:543-5 O 2 '24; Excerpts. Chem & Met Eng 31:496-7 S 29 '24; Elec Ry J 64:411 S 13 '24
Effect of the present attitude of the United States toward the League of nations. M. O. Hudson. Ann Am Acad 120:112-14 Jl '25
Geneva conference. Comm & Fin Chr 119: 1355-9 S 20 '24
Germany lays down conditions for entering League of nations. Comm & Fin Chr 120: 36 Ja 3 '25
Germany may enter League of nations but on same conditions as others. Comm & Fin Chr 120:1407 Mr 21 '25
Great Britain turns down Geneva peace protocol—text of Austen Chamberlain's speech before League of nations. Comm & Fin Chr 120:1405-6 Mr 21 '25
League of nations. J. E. Johnsen, comp. Ref Shelf 2:1-121 no 3 '24
League of nations and price control. Comm & Fin Chr 121:14-15 Jl 4 '25
League of nations in 1923. Economist 98:60-1 Ja 12 '24
League of nations suggested as medium for rehabilitating China. Comm & Fin Chr 121: 935-6 Ag 22 '25
Plea for the League of nations. T: B. McAdams. Am Bankers Assn J 17:249-50 O '24; Same. Comm & Fin Chr 119:116-18 sec 2 O 18 '24
Presentation to Viscount Cecil of Woodrow Wilson foundation award—work of League of nations. Comm & Fin Chr 120:42-6 Ja 3 '25
Text of protocol to outlaw war approved by League of nation's assembly. Comm & Fin Chr 119:1804-9 O 18 '24
Where the League functions; report on double taxation and evasion of taxation. J Account 39:319-25 Ap '25
Why the United States ought to stay out of the League of nations. Comm & Fin Chr 119:1882-4 O 25 '24

See also International labor organization; Permanent court of international justice

LEAKS in buildings
Locating damaging leaks. W. H. Holmes. Bldg Age 46:81+ S '24

LEARNING and scholarship
See Study

LEASES
Advertising now included in store leases. Ptr Ink 131:148 My 7 '25
Law of leases. C. M. Lewis. 674p [bibliog. p 635-40] Baker, Voorhis & co., New York '24

LEAST squares
Least squares criterion for trend lines. W. L. Crum. diags Am Statis Assn J 20:211-22 Je '25
Some elementary examples of least squares. O. S. Adams. 17p U.S. Coast & geodetic survey, Washington '24

LEAST work
Experimental verification of Castigliano's principle of least work and of a theorem relating to the torsion of a tubular framework. A. J. S. Pippard and J. F. Baker. il diags Philos Mag 6th ser 50:97-112 Jl '25

LEATHER
Applied research pays dividends in leather manufacture. A. G. Wikoff. il Chem & Met Eng 30:896-901 Je 9 '24
Automobile upholstery leather. K. L. Herrmann and F. J. Radel. il diags Soc Auto Eng J 14:327-34 Mr '24; Abstract. Automotive Ind 50:222-3 Ja 31 '24
Chemistry and comfort; relation between the chemical composition of leather and the comfort of shoes made therefrom. J: A. Wilson and A. F. Gallun, jr. Ind & Eng Chem 16:268-9 Mr '24
How American sole leather is made. G: A. Miller. il Dun's Int R 44:45-8+ D '24
Imperfections in leather caused by microorganisms. J: A. Wilson and G. Daub. il Ind & Eng Chem 17:700-2 Jl '25
Leather industry needs stimulant. Chem & Met Eng 32:113 Ja 19 '25
Patching of leather perfected. Soc Auto Eng J 16:143-4 F '25
Some scientific aspects of puering and bating. C. E. Pickard. bibliog il Soc Chem Ind J (Chem & Ind) 43:476-80 My 9 '24
Use of patched hides in body upholstery made possible by new method. il diag Soc Auto Eng J 14:228-30 F '24
Ventilating properties of leather. J: A. Wilson and G: O. Lines. diags Ind & Eng Chem 17:570-3 Je '25
Wearing qualities of shoe leathers. F. P. Veitch, R. W. Frey and I. D. Clarke. U S Agric Bul 1168:1-24 '24
See also Belting; Calfskin; Dyes and dyeing—Leather; Gloves; Hides and skins; Shoes; Tanning; Tanning materials

Moisture content
Conditioning of leather. J. Barker. Textile Inst J 16:P279-82 S '25

Specifications
United States government master specification for lace leather. U S Bur Stand Circ 213:1-5 '25
United States government master specification for sole leather. U S Bur Stand Circ 198:1-8 '25
United States government master specification for upholstery leather. U S Bur Stand Circ 212:1-5 '25

Testing
Comparative durability of chrome and vegetable tanned sole leathers. R. C. Bowker and M. N. V. Geib. il U S Bur Stand Tech Pa 286:267-86 '25
Strength and stretch of calf and kid leathers as functions of oil content. J. A. Wilson and A. F. Gallun, jr. Ind & Eng Chem 16: 1147-8 N '24
Strength and stretch of shoe upper leathers. il Chem & Met Eng 31:12-13 Jl 7 '24
Variation of strength and stretch over the area of calf leather. J: A. Wilson. Ind & Eng Chem 17:829-30 Ag '25

LEATHER, Artificial
Artificial leather. Textile Col 47:374 Je '25
Oil and leather cloths; list of uses in different industries. J. W. Cox, jr. il Textile World 65:4214+ Je 28 '24
See also Leather substitutes

Manufacture
Artificial leather flow sheet. Ind & Eng Chem 17:251 Mr '25
Artificial leather; with special reference to its manufacture from nitrocellulose. W. J. Jenkins. Chem Age (Lond) 12:628-9 Je 27 '25
Oil and leather cloths. J. W. Cox, jr. il Textile World 65:3005+, 3303+ My 3, 17 '24
Synthetic leather made from rubber. A. Dubosc. Rubber Age 14:418-20 Mr 10 '24

Testing
Leather-substitute standard needed. E. H. Nollau. il Soc Auto Eng J 16:569-70 Je '25

LEATHER, Diaphram
Drip oil action on diaphragm leathers. T. A. Mighill. Am Gas J 121:655+ Jl 19 '24

LEATHER distillation
Industrial utilization of leather scrap. J. Michelman. Ind & Eng Chem 17:247-50 Mr '25; Same. Chem Age (Lond) 13:144-5 Ag 8 '25

LEATHER industry and trade
See also Shoe industry and trade

Advertising
Hitting two major problems with one advertising campaign; Robert H. Foerderer, inc., Philadelphia. J: A. Lutz. Ptr Ink 126:77-8+ Ja 17 '24
How testimonials can be made to order; the New Castle leather company's business-paper advertising. Ptr Ink 126:64+ Ja 24 '24

Directories
Directory of United States exporters of boots and shoes and other leather manufactures. U S Bur For & Dom Com misc ser 127:1-30 '24

Statistics
Hides and leather—production and stocks, 1921-1924. Survey of Cur Business 30:90-1 F '24 [continued quarterly]

Canada
Tanning industry in Canada. B. Monsaroff. Can Chem & Met 9:115-16 My '25

France
France's leather export embargo. W. J. Page. Am Ind 24:47 Mr '24

Great Britain
British leather trades. Economist 98:673-5 Mr 29 '24
Hide and leather trades in 1924. Economist 100:245 F 7 '25
Leather, hides, skins and tanning materials. E. C. Snow. (Resources of the Empire ser. v. 6) 368p Van Nostrand '24
Shoes, leather, and hides in Great Britain. N. Hertz. il U S Bur For & Dom Com 226:1-201 '24

United States
Business conditions in heavy leather manufacture. H. S. Brown. Chem Age 32:497-9 D '24
Depression in the leather and shoe industries. Comm & Fin 13:1035 My 28 '24
Gains in leather and footwear trades. Dun's R 33:8-9 S 12 '25
Hide, skin and leather markets. Comm M 6: 27-30 S '24
Leather and footwear trades. Dun's R 32:7-8 F 2; 8-9 My 31; 8-9+ S 27 '24; 33:8-9 Ja 31; 8-9 My 16 '25
Leather outlook more hopeful. Nat City Bank p 14-19, p 197-202 N-D '24
Leather trade. Moody's Inv Serv 16:397-8; 17: 106, 263-4 O 30 '24, Mr 26, Ag 6 '25

LEATHER industry and trade—United States —*Continued*
Shoe and leather improvement. Nat City Bank p 82-3 My '25
Situation of the American leather industry. Econ W n s 29:765-7 My 30 '25
Why buy American leather? G: A. Miller. il Dun's Int R 44:37-41 S '24

LEATHER scrap. See Leather waste

LEATHER substitutes
Fiber board manufacture. R. H. Harding. Paper 33:7-10 Ja 17 '24
See also Leather, Artificial; Pyroxylin coated fabrics; Rubber fabrics

LEATHER waste
Industrial utilization of leather scrap. J. Michelman. Ind & Eng Chem 17:247-50 Mr '25; Same. Chem Age (Lond) 13:144-5 Ag 8 '25
Pyrrole from new sources—some uses. J. Michelman. Ind & Eng Chem 17:471-2 My '25

LEATHER work
Decorative leatherwork. P: W. Davidson. 107p Longmans '23

LEATHER workers
Pocketbook workers, New York city; labor agreement. Monthly Labor R 20:568-70 Mr '25

LEAVE of absence. See Absenteeism (labor)

LEAVES
When the leaves begin to fall. E. Bade. il Sci Am 131:329 N '24

LEBRUN, Pierre L., 1864-1924
Sketch. por Am Arch 125:339 Ap 9 '24

LE CHATELIER, Henri Louis, 1850-
Scientific idyl; career of Henri Louis Le Chatelier. por Chem & Met Eng 30:218 F 11 '24

LEDOUX, Albert Reid, 1852-1923
Sketch. por Ind & Eng Chem 16:91 Ja '24

LEEDS university
Jubilee celebrations of the Leeds university, Dec. 15-20. il Gas J (Lond) 168:839-42 D 24 '24

LEGACIES
Increasing demand for bequest insurance. P. F. Clark. Econ W n s 27:780-1 My 31 '24
Life insurance as a method of safeguarding charitable bequests against inheritance taxation. E. P. Huttinger. Econ W n s 29:21-3 Ja 3 '25
Reshaping philanthropic habits. R. Hayes. Am Bankers Assn J 18:243-4 O '25; Same. Comm & Fin Chr 121:164-6 sec 2 O 17 '25

LEGAL advertising
Legal notices and legal rates. G. L. Caswell. Inland Ptr 76:100-1 O '25
When the law sets the advertising rate. Ptr Ink 128:136+ S 11 '24

LEGAL aid organizations, National association of. See National association of legal aid organizations

LEGAL chemistry. See Chemistry, Legal

LEGISLATION
Laws! they might have been worse. W: A. Robinson. Nation's Business 13:34 N '25
Legislative review. Published in monthly numbers of Mining congress journal
Motor industry fares well at hands of 68th Congress. H. L. Cobb. Automotive Ind 52:620-1 Ap 2 '25
National legislative outlook 1924. J. A. Emery. Am Ind 24:29-32+ Ja '24
National legislation; review of work of sixty-eighth Congress. Min Cong J 10:439-43 S '24
See also Law

LEGISLATIVE reference libraries
Legislative reference bureaus. Special Lib 15: 245 D '24
Legislative reference in action; eleven legislative reference bureaus. Special Lib 15:243-4 D '24
Legislative reference movement. H. O. Brigham. Special Lib 15:240-1 D '24

LEHIGH institute of research
Institute of research of Lehigh university. C. R. Richards. J Eng Educ 15:437-46; Discussion. 446-53 F '25
Lehigh institute of research. Chem Age 32: 432 O '24

LEHIGH Valley railroad
Annual report, 71st, 1924. Ry Age 78:962-3 Ap 11 '25; Comm & Fin Chr 120:1872-3 Ap 11 '25
Co-operation—a constructive force; Lehigh Valley maintains intimate contacts between the officers and employees. R. V. Wright. Ry Age 78:1210-18 My 16 '25
Final decree separating railroad and coal properties signed by Judge Hand. Comm & Fin Chr 117:2109-10 N 10 '23
Lehigh Valley railroad segregation. Moody's Inv Serv 16:40 Ja 24 '24

LEISURE
City worker's spare time in the United States. Int Labour R 9:896-916 Je '24
Influence of housing conditions on the use of leisure. R. Unwin. Int Labour R 9:815-28 Je '24
Leisure of the young worker. Int Labour R 9:829-44 Je '24
Place of leisure in life. J. K. Hart. Ann Am Acad 118:111-15 Mr '25
Spare time in the country; American methods of organisation. Int Labour R 10:120-35 Jl '24
Spare time in the country; an English experiment in organisation. Int Labour R 9:917-38 Je '24
Use of spare time in Czechoslovakia. Int Labour R 9:879-95 Je '24
Use of spare time in Sweden. B. Nyström. Int Labour R 9:845-62 Je '24
Utilisation of leisure in Austria. Int Labour R 9:227-41 F '24
Utilisation of leisure in Finland. Int Labour R 9:573-86 Ap '24
Utilization of workers' leisure in various countries. Monthly Labor R 19:296-303 Ag '24
Workers' leisure committees in Belgium. Int Labour R 9:863-78 Je '24
Workers' spare time. Int Labour R 10:555-7, 576-9 O '24

LEMNISCATE. See Curves

LEMONS
Protopectin and some other constituents of lemon peel. R. Sucharipa. Am Chem Soc J 46:145-56 Ja '24
See also Citric acid; Citrus fruit

By-products

Getting the most from lemons; the Sicilian citrus byproducts industry. W. V. Cruess. il Chem & Met Eng 32:313-15 F 23 '25

LENGTH, Standards of. See Standards of length

LENO
Practical methods for weaving lenos. J: Reynolds. il diag Textile World 66:2991+, 3453-4; 67:461+, 1977+ N 22, D 13 '24, Ja 24, Mr 21 '25
Three-end leno jacquard effects. il Textile World 65:3317+ My 17 '24

LENSES
And now they've trade-marked lenses. C. B. Larrabee. Ptr Ink 131:33-4+ Je 18 '25
See also Glass, Optical; Goggles; Optical instruments

Manufacture

Quality of your eye glasses assured by gas fuel. il Gas Age 55:689-90 My 9 '25

LENSES, Photographic
Abberrations of long focus anastigmatic photographic objectives. A. H. Bennett. il diags U S Bur Stand Sci Pa 494:587-640 '24
Camera lenses. A. Lockett. 111p Pitman '25

LENTZ transmission. See Hydraulic transmission

LEPIDOLITE
Studies in the mica group. A. N. Winchell. Am J Sci 5th ser 9:415-30 [bibliog. p. 424-7] My '25

LEPROSY
Leper settlement at Palo Seco. F: L. Hoffman. il Nation's Health 7:40-1 Ja '25
Life's greatest tragedy. F: L. Hoffman. il Nation's Health 7:480-1 Jl '25
Synthesis of the anhydride of hydroxymercuri-ethoxy-chaulmoogric acid and ethyl acetoxymercuri-ethoxy-chaulmoograte. A. L. Dean, R. Wrenshall and G. Fujimoto. Am Chem Soc J 47:403-7 F '25
World's largest leper colony, Culion. V. G. Heiser. il Sci Am 133:236-7 O '25
See also Chaulmoogra oil

LEPTANDRA
Leptandra and veronica—a morphological study. T. Holm. bibliog il Am J Sci 5th ser 9:460-71 Je '25

LEPTAUCHENIA
Leptauchenia and Cyclopidius. F. B. Loomis. il Am J Sci 5th ser 9:241-9 Mr '25

LETTER writing
Live your letters. C: R. Wiers. Ptr Ink 133: 121-2+ O 8 '25
See also Commercial correspondence; Sales letters

LETTERHEADS
Does changing the letterhead mean lost goodwill? Ptr Ink M 9:124 O '24
Illustrated letterheads that tell the sales story. E. B. Weiss. il Ptr Ink M 8:56+ My '24
Letterhead. Inland Ptr 74:893 Mr '25
Say it with letterheads in export trade. C: E. Lyon. Ptr Ink 127:216+ Je 26 '24
Some examples of letterheads. Inland Ptr 75: 240a-h My '25
Special letterheads for long letters. J: T. Bartlett. Inland Ptr 75:275 My '25
Variety and individuality in the letterhead to strengthen the selling appeal. Ptr Ink M 7:112 D '23
What can we expect from the illustrated letterhead? il Ptr Ink M 8:104+ Je '24
What information should a letterhead give? Ptr Ink M 9:150 S '24
See also Business stationery

LETTERING
Art of lettering. C. L. Svensen. 136p Van Nostrand '24
Good results from lettering signs by silk screen process. il diag Elec Ry J 62:1007-10 D 15 '23
Lessons in lettering: series of practice books. T: E. French and W: D. Turnbull. McGraw-Hill '24
Lettering exercise manual. J. Bright and J: F. Faber. 64p Bruce pub. co., Milwaukee, Wis. '24
Lettering guides. il Eng & Contr (Bldgs) 61: 487 F 27 '24
Little things which influence efficiency of label, car-card and poster carrying power. Ptr Ink 126:41-2+ Mr 20 '24
Making a line of lettering sing. W. L. Larned. Ptr Ink 127:33-4+ Je 26 '24
P's and Q's; a book on the art of letter arrangement. S. B Tannahill. 108p Doubleday '23
Quick lettering with aid of typewriter. F. M. Garnett. Eng & Contr (R & S) 61:57 Ja 2 '24
Seven examples of old lettering on stone; photographs by G. H. Van Anda. Am Inst Arch J 13:395-401 N '25
Ticket and show card designing. F. A. Pearson. 73p Pitman '23
Wrico lettering guide. il Eng & Contr (R & S) 61:1261 Je 4 '24
See also Alphabets; Show cards

LETTERS of credit
Letters of credit in export trade. L. R. Browne. Am Exporter 94:18-22 Ja '24

LEUCITE
Manufacture of potash and other salts from leucite. J. W. Hinchley. il diag Soc Chem Ind J (Chem & Ind) 43:158-65; Discussion. 165-8 F 15 '24
New source of potash; Italian leucite and its products. J. W. Hinchley. Chem Age (Lond) 9:572-3 N 24 '23

LEUCOPLASTS
Leucoplasts: living, reproducing, perfect chemical catalysts. E. J. Witzemann. J Phys Chem 28:305-12 Ap '24

LEVEES
Electric-hydraulic dredge work on Illinois levees. il diag Eng N 92:944-5 My 29 '24
Hay pays half maintenance cost of Yazoo levee district. C. W. Littlejohn. il Eng N 93:557 O 2 '24
Levee work with dipper dredges. diag Eng & Contr (G C) 64:883 O 21 '25
Levees on Mississippi tend to lower river bed. C: L. Potter. map Eng N 92:280-2 F 14 '24; Discussion. 92:626-7 Ap 10 '24
See also Flood control

LEVELING
Datum planes—their determination for engineering uses. H. A. Marmer. Eng N 95: 98-100 Jl 16 '25
Longest line of levels in Canada. Can Eng 49:276 S 1 '25
Precise leveling in New England. E. B. Roberts. il maps Boston Soc C E J 11:283-313 S '24
Precise leveling of the United States. E. B. Roberts. Pub Works 56:59-60 F '25
Spirit-level lines in Connecticut. Eng & Contr (R & S) 63:62 Ja 7 '25
See also Surveying

LEVELS
Spirit levels in the machine shop. E. F. Creager. Am Mach 62:160 Ja 22 '25; Discussion. H. L. Wheeler. 62:528 Ap 2 '25
Watts self-adjusting precision level. il diags Engineering 119:732-3 Je 12 '25

LEVERHULME, William Hesketh Lever, Lord, 1851-1925
Leverhulme's 14-hour day. Comm & Fin 14: 948 My 13 '25
Sketch. por Ptr Ink 131:61-2 My 14 '25

LEVERRIERITE
Leverrierite as a schist-forming mineral. C. S. Corbett. Am J Sci 5th ser 10:247-68 S '25

LEVERS
Hoisting lever for applying couplers. il diag Ry Mech Eng 98:743 D '24
Using lever to find weight of heavy machine parts. D. A. Hampson. diag Ind Eng 83: 151 Mr '25

LEVIATHAN (steamship)
Cast Leviathan's large steel hawse pipe. il diags Foundry 52:381-4 My 15 '24
Lighting system of the S.S. Leviathan. W. N. Zippler. il Illum Eng Soc 19:28-42 Ja '24
Problems in repairing the Leviathan. il Iron Age 113:1215-16 Ap 24 '24
Reconditioning the Leviathan. W: F. Gibbs. W Soc E J 28:533-42 D '23
Tests steel plates of Leviathan. G. B. Waterhouse. il Iron Tr R 75:229-30 Jl 24 '24

LEVULOSE
Method for the manufacture of levulose. R. F. Jackson, C. G. Silsbee and M. J. Proffitt. Ind & Eng Chem 16:1250-1 D '24

LEWIS, Gilbert N.
Award of the Willard Gibbs medal. por Chem & Met Eng 30:618 Ap 21 '24

LEWIS, Nelson P., 1856-1924
Sketch. por Eng N 92:586 Ap 3 '24

LEWIS'S theory of rational units
Ultimate rational units and dimensional theory. G. N. Lewis. Philos Mag 6th ser 49: 739-50; Discussion. O. J. Lodge. 751-2 Ap '25

LEXINGTON, Kentucky
Engineering in the small city. Eng N 95: 349-50 Ag 27 '25

Water supply
Well-managed private water plant at Lexington. il Eng N 95:62-3 Jl 9 '25

LIABILITY
See Employers' liability; Insurance, Liability; Manufacturers' liability; Municipal liability

LIBERIA
Americans to grow rubber in Liberia. map India Rubber W 77:650-2 Ag '25

LIBERTY
Perils in attempts to restrict liberty of opinion and action through legislation. C: E. Hughes. Comm & Fin Chr 121:1306-7 S 12 '25

LIBERTY bonds. See Bonds, Government—United States

LIBERTY National bank in New York
Liberty National bank in New York. il Bankers M 108:493-8 Mr '24

LIBMAN, Abraham L.
Builder who came back. M. L. Simmons. por Bldg Age 47:139-41 Je '25

LIBRARIES
Libraries—the pantheons of printing. J. B. Arnold. Inland Ptr 73:217-19 My '24

See also Business libraries; Factory libraries; Financial libraries; Library advertising; Library architecture; Library science; Library service; Reference books; Ship libraries; *also* Bodleian library

Fire test
High temperatures observed in library fire test. Eng N 94:763 My 7 '25

Instruction in use
Guide to the use of libraries. M. Hutchins, A. S. Johnson and M. S. Williams. 3d ed. 251p H. W. Wilson co. '25

China
Libraries in China. A. E. Bostwick. Lib J 50:895-8 N 1 '25

LIBRARIES (rooms)
Details from the library of the hotel Gouthiere, Paris. il diags plans Arch Forum 41: 307-10 D '24

LIBRARIES, Business. See Business libraries

LIBRARIES, County
Beginning and the end of the best library service in the world. L. S. Suggett. 89p Francisco pub. co., San Francisco, Calif. '24
How to secure a county library, including the text of the county library law of Texas. 45p Texas state library, Austin '24

LIBRARIES, Departmental. See College libraries

LIBRARIES, Government
See United States—Patent office—Library

LIBRARIES, Medical. See Medical libraries

LIBRARIES, Special
Association of special libraries second conference, Oxford, Sept. 25-28. Engineer 140:354 O 2 '25
Breadth of library service. E. Kerr. Special Lib 16:224-5 Jl '25
British information bureaux and special libraries. Lib J 50:705-7 S 1 '25
Classification in special libraries. E. Mueser. Special Lib 14:146-8 N '23
Growth of special libraries; reprinted from Special libraries directory. J: C. Dana. Special Lib 16:183-4 Je '25
Libraries in science and industry. O. P. R. Ogilvie. Special Lib 16:8-11 Ja '25
The library: a necessary adjunct to statistical work. G. E. Marion. Special Lib 15:104-7 My '24
Preliminary report of S. L. A. committee on methods. F. H. Chase. Special Lib 14:127-8 O '23
Press in relation to information bureaux and special libraries. F. E. Hamer. Chem Age (Lond) 13:348 O 3 '25
Research and reference in the special library. M. Mann. Special Lib 15:191-8 O '24
Special librarian and the general library. F. H. Chase. Special Lib 15:103-4 My '24
Special library vs the special collection. R. H. Johnston. Special Lib 15:130-1 Je '24
Value of organized information and research to a great public utility. E: Dana. Elec Ry J 66:21-2 Jl 4 '25
Value of our library; Retail credit company. G: A. Bland. Special Lib 16:111 Ap '25
Why special libraries? R. H. Johnston. Special Lib 16:3-6 Ja '25

See also Advertising agencies—Libraries; Business libraries; Chemical libraries; Engineering libraries; Factory libraries; Financial libraries; Insurance libraries; Legislative reference libraries; Library service; Municipal reference libraries; Newspaper libraries; Public utilities—Libraries; Railroad libraries; Scientific libraries; Technical libraries; *also* Conference of special libraries and information bureaux of Great Britain; *also* names of libraries, e.g. General electric company—Library; Masaryk academy of work, Prague—Management library; New York (state)—Health, Department of—Library of division of laboratories; Silk association of America—Library

Bibliography
Cumulated index to Special libraries. C. G. Noyes, comp. 46p Special lib. assn., Boston '24

Directories
Directory of the libraries of Philadelphia and vicinity. 15p Pub. for the Special libraries council of Philadelphia and vicinity by the Special libraries assn., Washington, D.C. '23
Special libraries directory. M. Wilson, comp.; R. B. Rankin, ed. 254p Special libraries assn., 195 Broadway, New York '25

LIBRARIES, Technical. See Technical libraries

LIBRARIES, Traveling
Automobile and the traveling library; the book wagon service. K. Tappert. Ann Am Acad 116:66-8 N '24
Traveling library of Seaboard air line. Special Lib 16:59 F '25

LIBRARY advertising
Library and the community. J. L: Wheeler. 417p American lib. assn., Chicago '24
Material and plans for a county library campaign. F. B. Spaulding, comp. 47 numb l American lib. assn., Chicago '23
Publicity for public libraries. G. O. Ward. 315p H. W. Wilson co. '24

LIBRARY architecture
Beaux-arts institute of design. Am Arch 124: 579-84 D 19 '23
Building for branch of the Chicago public library; views and plans. Arch Forum 43: pl 25-7 Ag '25
Designing of small libraries. C. Hadley. il plans Arch Forum 42:245-8 Ap '25
Details of the small library, Hotel de Chaulnes. Paris. C. H. Preston. il diags plans Arch Forum 40:229-32 My '24
Effect of library planning and location on operative costs. J. L. Wheeler. Eng & Contr (Bldgs) 61:668 Mr 26 '24
Gabriel Richard branch, Detroit library; views and plan. Am Arch 127:pl 4-6 Ja 14 '25
George Maxwell memorial library, Rockville, Conn., and other small libraries; views, plans, outline specifications, etc. Arch Forum 42:253-68 Ap '25
Impressive modern library, Marceline, Mo. P. H. Patrick. il plan Bldg Age 47:94 Ag '25
Indian style library. L. L. Cassidy. il plan Arch Rec 58:292-4 S '25
La Jolla public library, La Jolla, California; views and plans. Arch Rec 56:33-7 Jl '24
Library building, Teachers college, Columbia University, New York; views and plans. Am Arch 126:pl 84-8 S 10 '24
Library buildings; notes and plans. C. Hadley. 154p American lib. assn., Chicago '24 Review, by W: F. Yust. Lib J 49:777-9 S 15 '24
Library shelving and interiors. J: A. Lowe. il Arch Forum 42:249-52 Ap '25
Minnesota's new University library. F. K. Walter. il plans Lib J 49:1029-32 D 1 '24
New library at the University of Washington. C. F. Gould. il plans Lib J 49:1023-5 D 1 '24

LIBRARY architecture
Practical small library building. il plans Lib J 50:133-4 F 1 '25
Public library building plan. il plans Lib J 49:283-6 Mr 15 '24
Public library building plan. J: A. Lowe. il plans Arch Forum 40:1-6, 63-70 Ja-F '24
Public library, Kent, Conn. Am Arch 125: 434e-f My 7 '24
Queens Borough public library, Woodhaven, Long Island, N.Y. Arch & Bldg 56:68+, pl 141-2 Jl '24
Renaissance library; Detroit public library. il plans Bldg Age 47:84-7 N '25
Rural library building; award of the eighth annual White pine architectural competition. il Am Arch 124:479-86 N 21 '23
Schoolcraft branch, Detroit public library; view and plan. Am Arch 126:311 S 24 '24
Small library buildings. L. Asheim. 16p L. Asheim, Bridgeport, Conn. '25

Bibliography

Reading list on library buildings. Lib J 50: 168-9 F 15 '25

LIBRARY finance
Reasonable budgets for public libraries and their units of expense. O. R. H. Thomson. 44p American library assn., Chicago '25

LIBRARY furniture
Library furniture specifications. F. K. Walter. Lib J 50:163-5 F 15 '25

LIBRARY laws
Library laws of Ohio, in force August 1, 1925. 68p Ohio state library, Columbus '25

LIBRARY reports

Bibliography

References on library reports and library statistics. Lib J 49:223-5 Mr 1 '24

LIBRARY schools and training
Education of a librarian. E. A. Hedrick. Special Lib 15:79-81 Ap '24
Graduate school for librarians. W. P. Cutter. Special Lib 15:81-2 Ap '24
Report of S.L.A. committee on training. Special Lib 14:111-12 S '23

LIBRARY science
See also Business libraries; Pamphlets

Bibliography

Textbooks for library professional study. H: B. Van Hoesen. Lib J 50:63-6, 119-22 Ja 15-F 1 '25

LIBRARY service
American public library and the diffusion of knowledge. W: S. Learned. 89p Harcourt '24; Review. Special Lib 15:207-8 O '24
Business library as a phase of group service. A. E. Bostwick. Special Lib 15:187-91 O '24
Newspapers and periodicals, some bibliographical and bibliothecal problems. J. C. M. Hanson. Lib J 50:750-2 S 15 '25
Public library and the business man. J: A. Lowe. Special Lib 14:143-6 N '23
Public library methods of carrying education to adult workers. Monthly Labor R 21:855-6 O '25
Use of the library by the engineer. D. M. Wood. Special Lib 16:112-17 Ap '25
What the public library should do for the business man. A. E. Bostwick. Special Lib 15:51 Mr '24

Study and teaching

See Library schools and training

LICENSES
See Architects—Licenses; Canvassers—Taxation; Engineers—Licenses

LICH gates
English parish church and its details. R. M. Blackall. il diags Arch Rec 57:463-73, 565-9 My-Je '25

LICHENIN
Lichenin. P. Karrer and B. Joos. Soc Dyers & Col J 39:346 N '23
Polysaccharides; lichenin. P. Karrer, B. Joos and M. Staub. Chem Soc J 124 pt 1:1182 D '23

LICHENS
Dyeing properties of some Scottish lichens, and of a few other materials. T. S. Patterson. Soc Chem Ind J 43:189-90 Je 13 '24; Same. Soc Dyers & Col J 40:306-8 S '24
Lichens—impossible plants. A. W. Herre. Sci Am 130:99 F '24

LICHTENBERG figures
Method for measurement of time intervals from 10^{-7} to 6.7×10^{-11} second. P. Heymans and N. H. Frank. il diag Phys R 25:865-9 Je '25

LIDGERWOOD tension engine. See Marine engines

LIEB, John William, 1860-
Edison medal for 1923 awarded to John W. Lieb. Am Inst E E J 43:70 Ja '24; Elec W 82:1287 D 22 '23; Mech Eng 46:165 Mr '24

LIENS
Bender's selected statutes of the state of New York. 13th ed. Matthew Bender & co., Albany, N.Y.

See also Mechanics' liens; Mortgages; Sales, Conditional

LIESEGANG rings
Formation of periodic precipitates. N. R. Dhar and A. C. Chatterji. J Phys Chem 28: 41-50 Ja '24
Periodic precipitation in dilute gelatine gels. G. W. S. Blair. Philos Mag 6th ser 49: 90-6, pl 3 Ja '25

LIFE
Twilight zone of matter. A. Findlay. Ind & Eng Chem 17:891-4 S '25

See also Biological chemistry; Protoplasm

LIFE boats. See Lifeboats

LIFE insurance. See Insurance, Life

LIFE office management association
Annual convention, 1st, Fort Wayne, Ind., Sept. 25-26. Spectator 113:31+ O 2 '24

LIFE saving

See Mine rescue work; Respiratory apparatus; Resuscitation; Safety devices and measures

LIFE saving apparatus
Balsa floats as life saving equipment. il Marine R 55:305-6 Ag '25

See also Lifeboats; Respiratory apparatus

LIFE underwriters association of Canada
Life underwriters association of Canada. J. A. McCamus. Spectator 113:48-50 sec 2 Jl 17 '24

LIFEBOATS
Motor lifeboat for the Cunard steamship company. il diags Engineering 119:542-3 My 1 '25
Ship's lifeboat radio set. il diags Elec R (Lond) 95:792-3 N 21 '24
Ship's motor lifeboat with wireless equipment. il diags plan Engineer 139:160 F 6 '25
Solve unusual lifeboat problem. il diag Marine R 54:349-52 S '24
Wireless for lifeboats. il Electrician 94:301 Mr 13 '25

See also Davits

LIFEBOATS, Steel
Steel boats for safety. P. Winchell. il Iron Age 115:1403-5 My 14 '25

LIFT bridges. See Bridges, Lift

LIFT locks. See Locks (hydraulic engineering)

LIFTING jacks. See Hoisting machinery

LIFTING magnets
Electro magnets. J. B. Kramer. bibliog il diags Cassier's Ind Management 12:74-8 Ja '25
Essential construction details of A.C. magnets. P. G. Bernholz. diags Ind Eng 83:105 F '25
Grosse lasthebemagnete. F. Scheuermann. il diags Elektrotech Zeit 45:914-15 Ag 21 '24
Handling materials by electro magnets. il Cassier's Ind Management 12:132+ Ja '25
Hints for using lifting magnets. Cassier's Ind Management 12:187 Mr '25

LIFTING magnets—*Continued*
How a lifting magnet is used to handle steel scrap. il Ind Eng 83:250 My '25
Lifting magnets. Elec W 82:1079 N 24 '23
Many uses found for lifting magnets. il Iron Tr R 75:1644 D 18 '24
Pig iron cargo handled on ship with magnets. il Marine R 53:476-7 D '23

LIFTS. See Elevators; Hoisting machinery

LIGHT
Action of light on cotton. P. W. Cunliffe. bibliog Textile Inst J 14:T314-18 S '23; Same, without bibliog. Soc Dyers & Col J 39:371-4 D '23
Chemical properties of cotton; action of light. J. M. Matthews. Color Tr J 13:23-6 Jl '23
Further studies on the effect of composition of light on important ocular functions. C. E. Ferree and G. Rand. Illum Eng Soc 19: 424-47; Discussion. 447-55 My '24
Intermediate light. R. A. Houstoun. 228p Longmans '25
Light of knowledge and the knowledge of light. L. A. Hawkins. Illum Eng Soc 19:662-74 S '24; Same cond. Gen Elec R 27:141-6 Mr '24
Light of the night sky. Rayleigh. J Fr Inst 199:105-6 Ja '25
Light waves or light bullets? A. H. Compton. il diag Sci Am 133:246-7 O '25
Must our universe be infinite? N. P. Rashevsky. il Sci Am 133:162-3 S '25
Passage of light through transparent plates. A. Schuster. Philos Mag 6th ser 48:609-19, pl 12 O '24
Principle of Huygens. W. Anderson. Philos Mag 6th ser 49:422-6 F '25
Rotating earth as a reference system for light propagation. L. Silberstein. Philos Mag 6th ser 48:395-404 S '24
Structure of light. J. J. Thomson. il Engineering 119:602-4 My 15 '25
Suggestion as to the structure of light. J. J. Thomson. il Philos Mag 6th ser 48:737-46 O '24; Abstract. J Fr Inst 199:717-19 My '25
Tentative theory of light quanta. L: de Broglie. Philos Mag 6th ser 47:446-58 F '24
Treatise on light. R. A. Houstoun. 4th ed. 486p Longmans '25
Year's progress in illumination 1923-1924. Illum Eng Soc 19:775-85 O '24
Year's progress in illumination; physics. Illum Eng Soc 20:768-79 S '25
Year's progress in illumination; physiology of light. Illum Eng Soc 20:779-87 S '25

See also Aberration; Absorption of rays; Brightness; Color; Daylight; Daylight, Artificial; Diffraction; Dispersion; Dyes, Fastness of; Electric light; Electromagnetic theory; Eye; Fireflies; Fluorescence; Gamma rays; Glare; Infra-red rays; Interference (light); Light projection; Light signals; Lighthouses; Lighting; Opalescence; Optics; Phosphorescence; Photochemistry; Photoelasticity; Photoelectric cells; Photoelectricity; Photography; Photometry; Phototherapy; Plants, Effect of light on; Polarimeter; Polarization (light); Radiation; Radioactivity; Reflection (optics); Refractive index; Solar radiation; Spectrum; Stroboscopic instruments; Textile fabrics, Effect of light on; Ultra-violet rays; X rays

Physiological effect
Effect of light on health. L. Hill. Gas J (Lond) 168:569-70 N 26 '24

Terminology
Illuminating engineering nomenclature and photometric standards. 16p Illuminating engineering soc., 29 W. 39th st., New York '25; Same. Illum Eng Soc 20:629-41 Jl '25

Velocity
Effect of the earth's rotation on the velocity of light; abstract. A. A. Michelson and H. G. Gale. J Fr Inst 200:275-6 Ag '25
Preliminary measurement of the velocity of light. A. A. Michelson. J Fr Inst 198:627-8 N '24

Wave length
Interferometer measurements of the longer waves in the iron arc spectrum. W. F. Meggers and C. C. Kiess. U S Bur Stand Sci Pa 479:273-80 '24
Redetermination of secondary standards of wave length from the new international iron arc. W. F. Meggers, C. C. Kiess and K. Burns. il U S Bur Stand Sci Pa 478:263-72 '24

LIGHT, Colored
Chromograph. H. Logan. il Illum Eng Soc 20:381-7; Discussion. 387-91 Ap '25
Color flood-lighting of buildings. A. U. Gerber and E. D. Tillson. il Illum Eng Soc 19: 518-26; Discussion. 527-30 Jl '24
Color lighting for building exteriors. E. D. Tillson. il Elec W 84:1090-4 N 22 '24
Coloured cinema lighting. il Electrician 95: 100-1 Jl 24 '25
Colored lighting. M. Luckiesh and A. H. Taylor. il Illum Eng Soc 19:135-44; Discussion. 144-9 F '24
Commercial possibilities of color flood-lighting. A. M. Frost. il diag J Elec 54:351-5 My 15 '25
Decorative and theatrical lighting. C. Bragdon. Illum Eng Soc 19:888-901 N '24
Influence of colored light on plant growth. S: G. Hibben. il diags Illum Eng Soc 19: 1000-10 D '24

Bibliography
Colored lighting. M. Luckiesh and A. H. Taylor. Illum Eng Soc 19:143-4 F '24

LIGHT, Scattering of
Molecular scattering of light in liquids. K. S. Krishnan. Philos Mag 6th ser 50:697-715 O '25
Oblique scattering of light in gases and liquids. A. S. Ganesan. diag Phys R 23:63-8 Ja '24
Relation between the depolarization of the scattered light and the Kerr effect in liquids. W. H. Martin. diag J Phys Chem 28:1284-90 D '24
Scattering of light by very big colloidal particles. W. Shoulejkin. diags Philos Mag 6th ser 48:307-20 Ag '24
Scattering of light in mixtures of air and carbon dioxide. D. Banerji. Phys R 26:495-9 O '25
Use of scattered light in the determination of the distribution of size of particles in emulsions. A. J. Stamm and T. Svedberg. il diags Am Chem Soc J 47:1582-96 Je '25

Bibliography
Light scattering; bibliography. W: H. Martin. 281p University library, Toronto '23

LIGHT, Wave theory of
Wave theory of the Compton effect. C. Eckart. Phys R 24:591-6 D '24

LIGHT filter
New light filter. L. W. McCay. Am Chem Soc J 45:2958 D '23

LIGHT measurement. See Photometry

LIGHT projection
Anleuchten von gebäuden. Adolph. il Elektrotech Zeit 46:757 My 21 '25
Color flood-lighting of buildings. A. U. Gerber and E. D. Tillson. il Illum Eng Soc 19: 518-26; Discussion. 527-30 Jl '24
Color lighting for building exteriors. E. D. Tillson. il Elec W 84:1090-4 N 22 '24
Commercial possibilities of color flood-lighting. A. M. Frost. il diag J Elec 54:351-5 My 15 '25
L'éclairage des avions pendant la nuit; à l'aide d'un faisceau de projecteur électrique. J. Rey. diags Soc Ing Civils Bul 76:877-908 Jl '23
Floodlighting projector. il Ry Age 79:667 O 10 '25
Floodlighting railroad terminals and yards. Elec W 84:21 Jl 5 '24; Same. Eng & Contr (Ry) 62:423-4 Ag 20 '24

LIGHT projection—*Continued*
Floodlighting railroad yards. E. G. McAllister. il Elec W 83:1329-32 Je 28 '24
Flood lighting visible for 25 miles. R. D. Myers. il diag Elec W 86:470-1 S 5 '25
Illuminating the exteriors of buildings. B. Jones. il Arch Forum 42:93-6 F '25; Same. Eng & Contr (Bldgs) 64:467-71 Ag 26 '25
Illumination of large external areas. L. G. Toplis. Elec R (Lond) 95:764-5 N 21 '24; Discussion. 95:880, 959-60; 96:12 D 5, 19 '24, Ja 2 '25
New airmail flood lights. il Aviation 19:684 N 9 '25
New floodlight eliminates ventilation difficulties. il Ry Age 79:566 S 26 '25
Our stop and look flood-lights. C. C. McJunkin. System 47:390+ Mr '25
Permanent spectacular illumination for Niagara falls. il Elec W 86:106 Jl 18 '25
Projected light. H. T. Harrison. Gas J (Lond) 168:35-6 O 1 '24
Steam produces novel lighting effects. il Power Pl Eng 28:513 My 1 '24
Striking floodlighting effect at small cost. il Elec W 84:1315 D 20 '24
Studies in the projection of light. F. Benford. il diags Gen Elec R 26:75-82, 160-7, 230-4, 280-90, 575-82, 624-31, 780-7, 818-27; 27:199-207, 252-60, 504-10, 625-33, 698-705, 749-57, 830-8; 28:193-7, 526-35, 866-72 F-My, Ag-S, N-D '23, Mr-Ap, Ag-D '24, Mr, Jl, D '25
See also Moving picture machines

LIGHT railways. See Railroads, Local and light

LIGHT ships. See Lightships

LIGHT signals
Color-position-light signals Baltimore & Ohio. diags Ry Age 78:456-7 F 21 '25
Leuchtfeuer- und signalanlagen nach dem AGA-system. A. Mellin. il Zeit Ver Deutsch Ing 68:334-8 Ap 5 '24
Light reflecting prism for railroad and crossing signs. il Ry Age 77:69 Jl 12 '24; Same. Eng & Contr (R & S) 62:544 S 3 '24
Lighting for traffic control. H. F. Ilgner. Illum Eng Soc 20:399-401 Ap '25
Railway signaling methods for public roads. L: E. Moore. il diag Eng N 94:140-4 Ja 22 '25; Discussion. R. B. Hussey. 94:451 Mr 12 '25
Signal lighting—a special problem. L. S. Dunham. Gen Elec R 28:689-91 O '25
See also Electric lamps, Surveyors'; Searchlights; Traffic signals

LIGHTERMEN
Unhealthy bargee. W. F. Dearden. J Ind Hygiene 7:215-20 My '25

LIGHTERS
Lighterage free; huge waterborne commerce of the port of New York. L. O. Welcome. il Dun's Int R 43:46-9 Ag '24

LIGHTHOUSES
Lighthouse apparatus for Australia. il Engineer 136:513 N 9 '23
Lighthouse construction. R. R. Tinkham. Eng & Contr (Bldgs) 64:198 Jl 22 '25
Student work, Beaux-arts institute of design. il Am Arch 126:465-6, 497-500 N 5-19 '24
Sun valve acts in place of lighthouse keeper. il Marine R 53:473-4 D '23
See also Buoys; Lightships

LIGHTING
Application of scientific illumination in practice. G: Herbert and R. A. Ives. Illum Engr 16:233-8; Discussion. 238-42 O '23
Artificial light in the home. M. Luckiesh. Illum Eng Soc 19:102-5 Ja '24
Best means of promoting public appreciation of the benefits of good lighting. L. Gaster. Illum Engr 17:123-4; Discussion. 124-7 Ag '24
Bright lights. B. Jones. Am Inst Arch J 12: 219-22 My '24
Conference on illuminating engineering, British Empire exhibition, Aug. 12th. Elec R (Lond) 95:306-7 Ag 22 '24; Gas J (Lond) 167:649-50 Ag 20 '24
Co-ordination of research in illuminating engineering and some practical applications. J. S. Dow. Illum Engr 17:6-15 Ja '24; Abstracts. Gas J (Lond) 165:256 Ja 30 '24; Electrician 92:197 F 15 '24; Discussion. Illum Engr 17:16-18 Ja '24
Effects of quantity and quality of illumination upon the human eye and vision. C: Sheard. Safety Eng 47:91-8 F '24; Same. Nation's Health 6:316-18+ My '24
For faster seeing. M. Luckiesh. il diag Sci Am 130:326 My '24
Fundamentals of light and vision. W. Harrison. Am Inst E E J 43:1209-10 D '24
Good light and good sight. L. H. Carris. Safety Eng 50:229-30 O '25
Great demand for light. K. Van Stam. Forbes 13:575-6+ F 16 '24
Die güte der beleuchtung. J. Teichmüller. bibliog Elektrotech Zeit 45:1000-2 S 18 '24
High intensity and eye-fatigue. P. W. Cobb and F. K. Moss. bibliog diag Am Inst E E J 44:672-3 Je '25
Illuminating engineering. F. E. Cady and H: B. Dates, ed. 486p Wiley '25
Illuminating engineering as an aid to the architect. E. G. Perrot. Illum Eng Soc 19: 89-90 Ja '24
Importance of illumination. G. R. Anderson. Illum Eng Soc 19:108-11 Ja '24
Light and vision. il Blast F & Steel Pl 13: 357-60 S '25; Same abr. Textile World 68: 669+ Ag 1 '25
Light and work. M. Luckiesh. 312p Van Nostrand '24
Light, photometry and illuminating engineering. W: E. Barrows. 412p McGraw-Hill '25
Lighting fixtures and lighting effects. M: Luckiesh. 330p McGraw-Hill '25
Lighting in relation to public health. J. H. Clark. 185p Williams & Wilkins co., Baltimore '24
National and international aspects of illuminating engineering. L. Gaster. Illum Engr 17:103-4 Je '24
Notes on light and vision. F. Benford. il diags Gen Elec R 28:707-13 O '25
Ocular principles in lighting. C. E. Ferree and G. Rand. il Illum Eng Soc 20:270-95 Mr '25
Practical illuminating engineering. A. L. Powell. Illum Engr 17:163-4 O '24
Progress in illuminating engineering; proceedings of Illuminating engineering society meeting. Illum Engr 16:223-32 O '23
Progress in illumination. J. Teichmüller. Illum Engr 16:149-50 Je '23
Progress in lighting and illumination. G. H. Stickney. Am Inst E E J 43:750-3 Ag '24
Proper lighting as an aid in the prevention of accidents. R. E. Simpson. Illum Eng Soc 19:93-5 Ja '24
Relationship of the scientist to illuminating engineering. L. A. Hawkins. Illum Eng Soc 19:87-8 Ja '24
Report of the 6th session of the International commission on illumination, Geneva, July 21-24, 1924. R. Watson and W. T. Dunn. Gas J (Lond) 171:110-19 Jl 8 '25
Some present problems in illumination. C. E. Weitz. Munic & Co Eng 67:85-90 Ag '24
Studies in illumination; hygienic conditions of illumination in certain post offices, especially relating to visual defects and efficiency. L. R. Thompson and others. il plans U S Pub Health Bul 140:1-118 '24
Working with the architect on difficult lighting problems. A: D. Curtis and J. L. Stair. il diags Illum Eng Soc 19:43-54 Ja '24
Year's progress in illumination 1923-1924. Illum Eng Soc 19:711-800 [bibliog. p. 800] O '24; Abstract. Illum Engr 17:149-53 O '24

LIGHTING—*Continued*
Year's progress in illumination 1924-1925. Illum Eng Soc 20:679-799 [bibliog. p. 799-800] S '25

See also Acetylene lighting; Brightness; Car lighting; Church lighting; Daylight; Daylight, Artificial; Electric lamps; Electric lighting; Gas lighting; Glare; Light projection; Lighthouses; Locomotive headlights; Mine lighting; Office lighting; Oil lighting; Orientation (architecture); Photometry; Reflectors; Searchlights; Street lighting; Tunnel lighting; *also* subdivision Lighting under various subjects, e.g. Air routes; Art galleries and museums; Automobiles; Department stores; Factories; Foundries; Gasoline service stations; Golf links; Hospitals; Iron works; Kitchens; Machine shops; Motor buses; Moving picture studios; Moving picture theaters; Office buildings; Post office buildings; Printing offices; Railroads—Stations; Roads; Schoolhouses; Ships; Show windows; Steel works; Store buildings; Textile mills; Theaters; *also* International commission on illumination; Institution of public lighting engineers and superintendents

Bibliography

Eyesight conservation survey. p. 200-4 Eye sight conservation council of America, Times bldg., New York '25
Illumination index. Published in monthly numbers of Transactions of the Illuminating engineering society

Laws and regulations

Code of lighting school buildings; report of the committee on lighting legislation. il diags Illum Eng Soc 19:375-410 My '24
Lighting legislation. G. H. Stickney. Textile World 64:3315+ D 1 '23

Patents

Progress in the art of illumination. A. Bishoff. Illum Eng Soc 19:17-27 Ja '24

Study and teaching

Selling illumination by education. R. A. Palmer. il Ptr Ink M 8:100+ My '24

Tables, calculations, etc.

Prediction of daylight from vertical windows. H. H. Higbie. diags Illum Eng Soc 20: 433-73; Discussion. 473-6 My '25
Verkehrsbeleuchtung. J. Schaer. il diags Elektrotech Zeit 45:641-6 Je 19 '24
Window design and the measurement and predetermination of daylight illumination. P. J. Waldram and J. M. Waldram. diags Illum Engr 16:90-117; Discussion. 117-22 Ap '23

Terminology

Illuminating engineering nomenclature and photometric standards; American standard, approved April 29, 1925. 16p Illuminating engineering society, New York '25; Same. Illum Eng Soc 20:629-41 Jl '25
National illumination committee of Great Britain report for the year 1924. Gas J (Lond) 170:744 Je 10 '25
Recent developments in nomenclature and standards. Illum Eng Soc 19:7-16 Ja '24

Testing

Depreciation of lighting equipment due to dust and dirt. E. A. Anderson and J. W. Ketch. Illum Eng Soc 19:55-65; Discussion. 65-86 Ja '24
Further studies on the effect of composition of light on important ocular functions. C. E. Ferree and G. Rand. Illum Eng Soc 19:424-47; Discussion. 447-55 My '24

LIGHTING, Colored. See Light, Colored

LIGHTING, Electric. See Electric lighting

LIGHTING, Exterior. See High buildings—Exterior lighting

LIGHTING, Industrial
L'éclairage des locaux industriels et commerciaux. J. Lynn. il diags Génie Civil 84:417-20 My 3 '24
Eye fatigue and its relation to light and work. P. W. Cobb and F. K. Moss. diag J Fr Inst 200:239-47 Ag '25
Great demand for light. K. Van Stam. Forbes 13:703-4+ Mr 15 '24
Illumination opportunities. N. MacBeth. il Elec W 84:1351-4 D 27 '24
Where localized-general lighting is best. W. Sturrock. il System 46:780+ D '24

See also Factories—Lighting; Foundries—Lighting; Iron works—Lighting; Machine shops—Lighting; Power plants—Lighting; Printing offices—Lighting; Store buildings—Lighting

Cost

Unit costs of industrial lighting. D. H. Tuck. il plan Illum Eng Soc 19:411-19; Discussion. 419-23 My '24; Same. Ind Eng 82:329-32 Jl '24

Standards

Code of lighting: factories, mills and other work places. U S Bur Labor Statistics Bul 331:1-29 '23

LIGHTING fixture industry
To cure the evil in the fixture industry. Elec W 84:144-5 Jl 19 '24

LIGHTING fixtures
Depreciation of lighting equipment due to dust and dirt. E. A. Anderson and J. M. Ketch. Illum Eng Soc 19:55-65; Discussion. 65-86 Ja '24
Design of lighting fixtures. il Am Arch 128: 221-6 S 9 '25
Harmony of style via period fixtures. Bldg Age 47:149 Je '25
Lighting fittings for the coming season. il Gas J (Lond) sup 4:189-94 S 30 '25
Lighting fixtures and lighting effects. M. Luckiesh. 327p McGraw-Hill '25
Maintenance of interior lighting systems. il Nation's Health 6:782-4 N '24
68% more light from the same equipment. D. W. Atwater. Factory 33:665-6+ N '24
Year's progress in illumination. Illum Eng Soc 20:749-59 S '25

See also Electric light fixtures; Street lighting fixtures

LIGHTING fixtures, Street. See Street lighting fixtures

LIGHTING research
Co-ordination of research in illuminating engineering and some practical applications. J. S. Dow. Illum Engr 17:6-15 Ja '24; Abstracts. Gas J (Lond) 165:256 Ja 30 '24; Electrician 92:197 F 15 '24; Discussion. Illum Engr 17:16-18 Ja '24
Research problems; report of the committee on research of Illuminating engineering society. Illum Eng Soc 19:125-30 F '24

LIGHTNING
Ball lightning. G. C. Simpson. il Sci Am 130: 242 Ap '24
Ball lightning—an explanation. E. K. Scott. Elec R (Lond) 93:647 N 2 '23; Same. Chem & Met Eng 29:1152 D 24 '23
Electric thunderstorm field researches. H. Norinder. il diags Elec W 83:223-6; Discussion. 220-1 F 2 '24
Étude expérimentale des décharges atmosphériques et moyens de protection contre leurs effets. Génie Civil 85:119-20 Ag 2 '24
High-voltage phenomena. F. W. Peek, jr. il diags J Fr Inst 197:1-44 Ja '24
Is lightning a.c. or d.c.? H: W. Hall. il Radio N 7:775+ D '25
Lightning. F. W. Peek, jr. il diags J Fr Inst 199:141-82 F '25; Excerpts. Am Inst E E J 43:697-709 Ag '24; Abstract. Elec W 84:936-7 N 1 '24; Discussion. Am Inst E E J 44: 403-7 Ap '25; Elec W 84:937 N 1 '24
Lightning! F. W. Peek, jr. Aera 13:15-18 Ag '24

LIGHTNING—*Continued*
Lightning destroys a new 20-inch gas main. E: H. Bauer. il diag Gas Age 54:289-91 Ag 30 '24
On thunderbolts. W. M. Thornton. Elec R (Lond) 93:794-5 N 23 '23
Thunderstorm researches versus no lightning arresters. E. E. F. Creighton. Elec W 83: 521-3 Mr 15 '24
See also Atmospheric electricity

LIGHTNING arresters
Cost of installing oxide-film arresters. F: Krug. il Elec W 84:121-2 Jl 19 '24
Getting best results from lightning arresters. R. T. Wagner. Elec Ry J 62:911-12 N 24 '23; Discussion. F. J. Foote. 63:107-8 Ja 19 '24
Glow-light protection against lightning. il Sci Am 131:179 S '24
High voltage phenomena. G. Faccioli. il diags W Soc E J 29:431-42, 468 D '24; Abstract. Power Pl Eng 28:1151-5 N 15 '24
High-voltage switches, bushings, lightning arresters; experiences of the Southern California Edison co. H. Michener. Am Inst E E J 42:1251-4 D '23; Discussion. 43:361-4 Ap '24
Lightning arrester application from the economic standpoint. A. L. Atherton. map Am Inst E E J 43:813-17 S '24; Discussion. 44: 179 F '25
Lightning arrester experience in California. E. R. Stauffacher. il map Am Inst E E J 43: 660-5 Jl '24; Discussion. 44:57-8 Ja '25
Lightning-arrester grounds. H. M. Towne. il Elec W 83:131-5, 183-7 Ja 19-26 '24
Lightning arrester of German design. J. Reutter. diag Elec W 85:621 Mr 21 '25
Lightning-arrester performance; basis of comparison, recommended by lightning arrester sub-committee of the protective devices committee. Am Inst E E J 43:575-6 Je '24
Lightning arrester troubles. H. E. Stafford. Ind Eng 82:531 N '24
Lightning arresters. C: E. Bennett. il diags Am Inst E E J 43:791-7 S '24; Discussion. 44:76-9 Ja '25
Lightning arresters and relays discussed at A.I.E.E. il diags Elec W 83:763-5 Ap 19 '24
Lightning protection for antennae. J. R. McFarlin. diags Radio N 5:1257+ Mr '24
Lightning protection of distribution systems. A. L. Atherton. il diags Elec J 22:301-4 Je '25
New safety feature in Autovalve arresters. il Power Pl Eng 29:1076 O 15 '25
Report of Pacific coast electrical association sub-committee on line switches, fuses and protective devices. il diag J Elec 52:445-7 Je 1 '24
Thunderstorm researches versus no lightning arresters. E. E. F. Creighton. Elec W 83: 521-3 Mr 15 '24
Thunderstorm researches versus no lightning arresters. H. Norinder. Elec W 84:219 Ag 2 '24
Two California substations using graded-resistor lightning arresters. il diags Elec W 83:710 Ap 12 '24

Testing
Tests on 22-kv. and 4-kv. lightning arresters. W. F. Young. Am Inst E E J 43:1149 D '24; Discussion. 44:55-7 Ja '25

LIGHTNING conductors
Chimney lightning rod replaced in novel way. L. C. Fitzsimmons. il Power Pl Eng 28:613-14 Je 1 '24
Lightning conductors on naval war memorials. K. Hedges. Elec R (Lond) 94:870-1 My 30 '24
Lightning rods have real value. R. S. Moulton. Eng & Contr (Bldgs) 62:917-18 O 22 '24

LIGHTNING protection
Corona as lightning arrester. J. B. Whitehead. bibliog il diags Am Inst E E J 43: 914-22 O '24; Discussion. 44:393-4 Ap '25
Experiences with lightning trouble in Austria. R. W. Pruesser. Elec W 85:204 Ja 24 '25
Gewitterstörungen und blitzschutz. A. Matthias. il diags maps Elektrotech Zeit 46: 873-80 Je 11 '25
Lightning protection. E. E. F. Creighton. il Elec W 84:622-3 S 20 '24
Protection against lightning. A. M. Schoen. Safety Eng 47:109-17 Mr '24
See also Lightning arresters; Lightning conductors; Oil tanks—Lightning protection

LIGHTNING rods. See Lightning conductors

LIGHTSHIPS
Old and new lightships. il plans Marine Eng 30:137-40 Mr '25
Wireless communication with lightships. F. Tandy. il diags Engineer 137:118-19 F 1 '24

LIGNIN
Chemistry of lignin; a comparison of lignins derived from various woods. W. J. Powell and H: Whittaker. Chem Soc J 127:132-7 Ja '25
Chemistry of lignin; flax lignin and some derivatives. W. J. Powell and H: Whittaker. Chem Soc J 125:357-64 F '24
Chemistry of wood; relation between methoxyl and lignin. G. J. Ritter. Ind & Eng Chem 15:1264-6 D '23
Comparative investigations of lignin and cellulose. F. Fischer and H. Tropsch. Soc Dyers & Col J 40:87-90 Mr '24
Concerning lignin as it occurs in the wood. P: Klason. Tech Assn Pa ser 7:139 Je '24; Same. Paper Tr J 79:46 Jl 17 '24
Contribution to the knowledge of the constitution of spruce wood lignin. P: Klason. Tech Assn Pa ser 7:137-9 Je '24; Same. Paper Tr J 79:44-6 Jl 17 '24
Distribution of lignin in wood. G: J. Ritter. il Ind & Eng Chem 17:1194-7 N '25
Quantitative determination of lignin in wood pulps. H. Wenzl. Paper Tr J 79:48 O 2 '24

LIGNITE
Abraumförderbrücken im braunkohlentagebau. W. Ries. il diags Zeit Ver Deutsch Ing 69: 947-54 Jl 18 '25
Der aufbau der öffentlichen elektrizitätswirtschaft auf der braunkohle Mitteldeutschlands. H. Jahncke. il maps Elektrotech Zeit 45:909-13, 928-31 Ag 21-28 '24
Bayerns kohlenschätze und die aussichten ihrer verwertung. H. Fromm. map Zeit Ver Deutsch Ing 69:573-6 Ap 25 '25
Braunkohlenschwelöfen. A. Thau. diags Stahl & Eisen 45:388-9 Mr 12 '25
Brown coals of New Zealand; organic sulphur as a factor in determining the rank of a lignitic coal. W. P. Evans. Soc Chem Ind J 44:258 My 22 '25
Bureau of mines investigates the question of lignite carbonization. Gas Age 54:250 Ag 23 '24
Burning mixtures of lignite and bituminous. A. Canfield. charts diag Power Pl Eng 28:476-7 My 1 '24
La carbonisation des lignites par le procédé Tozer. E. Marcotte. Génie Civil 84:50-1 Ja 12 '24
Coal transportation problems; Alberta coal with regard to the Ontario market. C. W. Peterson. Can Eng 48:582 Je 16 '25
La distillation des lignites pour la production d'huiles et d'essences minérales. V. Neveux. il diags Génie Civil 87:321-6, pl 4 O 17 '25; Abstract. Power 62:926 D 15 '25
Efficient methods for burning North Dakota lignite for steam generation; abstracts. G: B. Wharen. Mech Eng 46:898-9 D '24; Power Pl Eng 28:1110 N 1 '24
Ekalaka lignite field, southeastern Montana. C. M. Bauer. map U S Geol S Bul 751—F: 231-67, pl 30-4 '24
Extraction du goudron primaire et des huiles brutes, à partir des charbons gras, lignites, etc., par carbonisation à basse température. C: Berthelot. il diags Génie Civil 85:209-13, 251-4 S 6, 20 '24
First general report of the lignite utilisation board of Canada. Review. Engineer 137: 572-3 My 23 '24
Gazéification du lignite rhénan, gazogènes et appareils de dégourdronnage; abstract. H. Becker. diags Chimie & Ind 13:402-6 Mr '25

LIGNITE—*Continued*

Kippenmechanisierung in braunkohlen-tagebaubetrieben. F. Brennecke. diags Zeit Ver Deutsch Ing 68:817-20 Ag 9 '24

Lignite, a future fuel? O. P. Hood. Ind & Eng Chem 16:1020 O '24

Lignite carbonization. W. W. Odell. U S Bur Mines Rep of Invest 2569:1-6 F '24 (typew); Same. Chem Age 32:127-9 Mr '24

Lignite deposits of North Dakota. A. G. Leonard, E. J. Babcock and L. P. Dove. North Dakota Geol S Bul 4:1-240 '25

Lignite distillate. C: E. Kerchner. Mech Eng 46:516-18 S '24

Lignite for gas making. Gas J (Lond) 171: 491 Ag 26 '25

Lignite fuel source of heat for industries. W. Roth. Gas Age 53:763-4 My 31 '24

Lignites of Texas and their potentialities for industry and agriculture. C. F. Drake. Manuf Rec 85:81-2 Ja 31 '24

Method for producing dehydrated lump lignite. E. P. Schoch. Manuf Rec 87:83-4 Mr 19 '25; Excerpt. Power 61:439 Mr 17 '25

Die nebenerzeugnisse der tieftemperaturbehandlung von braunkohlen. C. Bömcke. Zeit Ver Deutsch Ing 69:567-72 Ap 25 '25

New Zealand brown coals; low- and medium-temperature carbonisation experiments with typical high-sulphur and low-sulphur coals. J. A. Gilman and W. P. Evans. diags Soc Chem Ind J 44:263-5 My 29 '25

New Zealand brown coals; some leaching experiments with Avoca, Mossbank, and Coal Creek Flat coals. L. R. Dunn. Soc Chem Ind J 44:274-5 Je 5 '25

New Zealand brown coals, with special reference to their use in gas producers and for low-temperature distillation. W. O. R. Gilling and W. P. Evans. diags Soc Chem Ind J 44:259-63 My 29 '25

Output and value of lignite from North Dakota mines in 1923. Coal Age 27:153 Ja 22 '25

Power from the lignite of Saskatchewan fields. J. B. Hamilton. Power 59:927 Je 3 '24

Les procédés de traitement de la tourbe et du lignite. M. Migeon. il diags Chimie & Ind 11:248-55 F '24

Production and briquetting of carbonized lignite. E. J. Babcock and W. W. Odell. il diags U S Bur Mines Bul 221:1-79, pl 1-3 '23

Die rheinische braunkohle; neue dampfwirtschaft in brikettfabriken. Grunewald. il diags Zeit Ver Deutsch Ing 69:1005-12 Ag 1 '25

Scobey lignite field, Valley, Daniels, and Sheridan counties, Montana. A. J. Collier. diag map U S Geol S Bul 751—E:157-230, pl 21-9 '24

Sur le fractionnement thermique des produits gazeux de la carbonisation des combustibles solides. P. Lebeau. Chimie & Ind 14:17-18 Jl '25

Use of earthy crude lignite for gas making. K. Bunte. diag Am Gas J 121:1107-8+ O 25 '24

See also Coal; Darco

LIGNOCELLULOSE. See Cellulose

LIGNONE

Lignone dust explosion. P. W. Edwards. il diag plan Paper Tr J 78:47-9 Ja 17 '24

LIGNOSULFONIC acid

Lignosulphonic acid obtained by the action of sulphurous acid on spruce wood. C: Dorée and L. Hall. Soc Chem Ind J 43:257-63 Ag 1 '24

Lignosulphonic acid obtained from spruce wood by the action of sulphurous acid in the presence of ammonia. C: Dorée and L. Hall. Soc Chem Ind J 44:270-4 Je 5 '25

LILLY, Eli, and company

We find out how to speed-up production 50%. E. Lilly. il System 48:545-8+ N '25

LIME

Advantages of mechanically slaked lime. Soc Chem Ind J (Chem & Ind) 43:481-2 My 9 '24

Big plant to be erected in Alabama to manufacture diversity of lime products. J: H. Adams. Manuf Rec 87:75 Ja 15 '25

Comparative test of quicklimes for silica brick manufacture. L. J. Trostel. Am Cer Soc J 7:452-4 Je '24

Consistency of lime pastes and mortars. W. E. Emley. Am Soc T M Pro 23 pt 2:440-2 '23

Demand for New Brunswick lime. Concrete (cement mill sec) 26:50 Ap '25

Dirt roads improved by lime mixed with surface soil. E. J. McCaustland. Eng N 94:1055 Je 25 '25

Economy of lime reburning. G. K. Spence. Tech Assn Pa ser 8:60-1 '25; Same. Paper Tr J 80:223+ F 5 '25

English lime industry. C. W. D. Rowe. Concrete 25:sup 7-8 Jl '24

Hydrates of lime. R. T. Haslam, G. Calingaert and C. M. Taylor. Am Chem Soc J 46:308-11 F '24

Industrial uses of hydrated lime. Chem Age (Lond) 12:299 Mr 28 '25

Lime and magnesia; the chemistry, manufacture and uses of the oxides, hydroxides and carbonates of calcium and magnesium. N. V: S. Knibbs. 306p E. Benn, ltd., London; Van Nostrand, New York '24

Lime applications in chemical industries. Chem Age (Lond) 11:344-5 O 4 '24

Lime for sand-lime brick. Chem & Met Eng 30:587 Ap 14 '24

Lime for thawing in winter street work. il Am Gas J 122:54 Ja 17 '25

Lime in 1922. G. F. Loughlin and A. T. Coons. Concrete 24:sup13-14 Ja '24

Lime in 1923. Concrete (cement mill sec) 25: 111 D '24

Lime in 1924. Concrete (cement mill sec) 26:42 Mr '25

Lime in sewage treatment. T. C. Schaetzle. Pub Works 56:171-2, 201-3 My-Je '25

Lime in the treatment of trade wastes. R. H. Ferguson. bibliog Chem Age 32:301-4 Jl '24; Same. Munic & Co Eng 67:256-60 N '24; Same. Can Chem & Met 8:292-4 D '24

Lime production in 1923. Concrete 24:sup58 Ap '24

Lime, the raw material. Chem & Met Eng 32:124 Ja 19 '25

Lime treatment of activated sludge. A. Wolman. Eng & Contr (W W) 63:1254-5 Je 10 '25

Live slogan for lime industry; better lime for the consumer. G: B. Wood. Chem & Met Eng 32:83 Ja 19 '25

Methods in use for disposal of lime sludge in soda and sulphate pulp mills. G. K. Spence. Tech Assn Pa ser 7:36-7 Je '24; Same. Paper Tr J 78:182-3 Ap 10 '24; Same. Paper 33:108+ Ap 17 '24

New lime hydrate plant in Utah. L. D. Roueche. Concrete 25:sup50 S '24

New lime plant in Illinois. il Concrete (cement mill sec) 27:4 Jl '25

Production of hydraulic lime. Concrete (cement mill sec) 27:6 Jl '25

Production of lime from small stone. W. M. Myers. U S Bur Mines Rep of Invest 2596: 1-9 Ap '24 (typew)

Production of lime in 1923. Comm & Fin Chr 118:855 F 23 '24

Progress in the lime industry in 1924. N. V. S. Knibbs. Chem Age (Lond) 11:651 D 27 '24

Rate of hydration of lime from reburned sludges as influenced by its soluble salts. A. H. White and R. M. True. Ind & Eng Chem 17:520-1 My '25

Reaction between lime and nitrogen peroxide. J. R. Partington and F. A. Williams. diag Chem Soc J 125:947-58 Ap '24

Le rôle et l'importance de la chaux en agriculture. M. Lenglen. Chimie & Ind 10:1015-25; 11:17-39 D '23-Ja '24

Satisfactory year for the lime industry. W: R. Phillips. Chem & Met Eng 30:94 Ja 21 '24

LIME—*Continued*
Use of hydrated lime with Portland cement. J: W. Ramsey. Arch Forum 40:125-8 Mr '24; Same. Eng & Contr (Bldgs) 63:434-8 F 25 '25
Use of lime in agriculture and horticulture. N. V. S. Knibbs. Chem Age (Lond) 10:88 Ja 26 '24
Use of lime in preventing stream pollution. E. B. Besselievre. il Chem & Met Eng 32: 634-5 Jl '25
Utilization of nitrogen in soils and fertilizers as affected by lime. J. G. Lipman and A. W. Blair. Ind & Eng Chem 16:373-5 Ap '24
Utilizing carbide residue. J. J. Murphy. Chem & Met Eng 32:800 O '25
What happens in the lime cycle? Sci Am 131: 44 Jl '24
See also Cement

Specifications

Recommended specification for limestone, quicklime, lime powder, and hydrated lime for use in the manufacture of sugar. U S Bur Stand Circ 207:1-6 '25
Recommended specification for quicklime and hydrated lime for use in the absorption of carbon dioxide. U S Bur Stand Circ 189:1-5 '24
Recommended specification for quicklime and hydrated lime for use in the manufacture of sand-lime brick. U S Bur Stand Circ 150:1-6 '23
Recommended specification for quicklime and hydrated lime for use in the purification of water. U S Bur Stand Circ 231:1-4 '25
Recommended specifications for quicklime and hydrated lime for use in the manufacture of calcium arsenate. U S Bur Stand Circ 203:1-4 '25
Report of committee C-7 on lime. Am Soc T M Pro 24 pt 1:397-403 '24
United States government master specification for hydrated lime for structural purposes. diag U S Bur Stand Circ 204:1-7 '25
United States government master specification for quicklime for structural purposes. U S Bur Stand Circ 201:1-5 '25
See also Whiting—Specifications

LIME dermatitis
Lime dermatitis. W. J. O'Donovan. Monthly Labor R 20:1128-9 My '25

LIME juice
Coloring matter of lime juice. F. Hardy and F. H. S. Warneford. Ind & Eng Chem 17: 48-50 Ja '25

LIME kilns
New lime-burning plant of Union carbide company. H. L. Noyes. il diags plan Eng N 93: 546-8 O 2 '24
Technical principles of lime burning process. G. Kappeler. Concrete (cement mill sec) 27: 86-7 N '25
Waste elimination by the rotary kiln for lime. C: Wadsworth. il Chem & Met Eng 30:13-16 Ja 7 '24
Waste-heat recovery from rotary lime kilns; abstract. C: Longenecker. Mech Eng 47:857 O '25
Welded rotary kilns, coolers and bins. H. L. Noyes. il diags plan Concrete (cement mill sec) 26:31-4 Mr '25

LIMESTONE
Crushed limestone and hollow-tile waste aggregate. Concrete 27:29 Jl '25
German limestone production. Concrete 23:sup 82 N '23
Limestone abundant in Canada. Eng & Min J 120:375 S 5 '25
Limestone for sheet glass making. E. P. Arthur. Am Cer Soc J 8:125-30 Mr '25
Limestone planer dust in mortars. Concrete 26:182 My '25
Limestone production as a mining problem. F. R. Thoenen. il Concrete (cement mill sec) 26:61-2 My '25
Limestone quarrying at Sonora, California. G: J. Young. il Eng & Min J 120:693-5 O 31 '25
Limestone resources of Illinois. F. Krey and J. E. Lamar. Ill State Geol S Bul 46:1-392 '25
Loyalhanna limestone of southwestern Pennsylvania especially with regard to its age and correlation. C: Butts. il Am J Sci 5th ser 8:249-57 S '24
Marketing of Indiana limestone. H. S. Brightly. il Eng & Min J 119:237-43 F 7 '25
Mining limestone at Shingle Springs, California. G: J. Young. il diags Eng & Min J 119:1001-2 Je 20 '25
Mining limestone by glory holes in California. G: J. Young. il diags Eng & Min J 120:249-53 Ag 15 '25
Mining limestone for lime manufacture. O. Bowles. U S Bur Mines Rep of Invest 2585: 1-9 Mr '24 (typew); Same. Concrete 24:sup 90-3 Je '24
Mining limestone with shrinkage stopes. A. B. Parsons. il diags plan Eng & Min J 118: 605-9 O 18 '24
Novel application of glory hole mining. R. A. Kinzie. diags Eng & Min J 118:752-3 N 8 '24
Oriskany rocks in Illinois. T. E. Savage. il Am J Sci 5th ser 10:139-44 Ag '25
Quarrying limestone by glory holes. G: J. Young. il diags Eng & Min J 120:13-16 Jl 4 '25
Refacing old buildings. il Am Arch 127:347-8 Ap 8 '25
Sources of limestone, gypsum, and anhydrite for dusting coal mines to prevent explosions. O. Bowles. U S Bur Mines Bul 247: 1-68, pl 1-15 '25
Standard specifications for cut Indiana limestone work. 60p Indiana limestone quarrymen's assn., Bedford, Ind. '24
Study of limestone mining. Eng & Min J 118: 843 N 29 '24
Winning limestone. G: J. Young. il diags Eng & Min J 120:493-7 S 26 '25
See also Dolomite; Marble

Analysis

New analytical procedure for limestone. W. E. Haskell. Concrete (cement mill sec) 27: 42-3 '25
Separation of manganese in the analysis of limestone and similar materials. A. W. Epperson. Ind & Eng Chem 17:744-5 Jl '25

LIMEWATER. See Calcium hydroxide

LIMITATION of production. See Production, Limitation of

LIMITER, Electric current. See Electric current limiter

LIMONENE
Action of hydrogen peroxide on limonene. J. Sword. Chem Soc J 127:1632-3 Jl '25

LIMONITE
Oxidation products derived from chalcopyrite. R. Blanchard and P. F. Boswell. il diags Econ Geol 20:613-38 N '25

LINARIA
Ilysanthes, scrophularia and linaria; a morphological study. T. Holm. bibliog il Am J Sci 5th ser 8:395-410 N '24

LINCOLN, Abraham

Memorials

Interior of the Lincoln Memorial. Am Inst Arch J 13:220-1 Je '25

LINCOLN, England
See Electricity utilities—Lincoln, England

LINCOLN, Nebraska

Sewerage

New sewage disposal works of Lincoln, Neb. il Eng & Contr (W W) 60:1028-31 N 14 '23

LINCOLN cathedral
Cathedral towers at Lincoln. G: F. Paul. il Prof Eng 9:5 Je '24

LINCOLN highway
Construction of the final link of the Lincoln highway through New Jersey. H. D. Robbins. Good Roads 68:61 F '25

LINCOLN highway—*Continued*
Development of an American highway system. A. F. Bement. il Good Roads 65:151-6+ N 7 '23
Lincoln highway four-fifths finished. A. F. Bement. Good Roads 66:135-6 My '24
Progress on the Lincoln highway construction. Munic & Co Eng 68:10-11 Ja '25

LINCOLN National life insurance company
Lincoln National life insurance building, Fort Wayne, Indiana; views and plans. Arch Rec 56:335-48 O '24

LINCOLN storage company
Lincoln storage company warehouse, Cleveland, Ohio. il diag plans Am Arch 127:393-7 Ap 22 '25

LINDABURY, Richard Vliet, 1850-1925
Sketch. por Iron Tr R 77:227-8 Jl 23 '25

LINDEBERG, Harrie T.
Harrie T. Lindeberg's contribution to American domestic architecture. R. J. Whitehead. il Arch Rec 55:309-72 Ap '24

LINE radio. See Telephone, Carrier current

LINEMEN
Construction department safety rules. Elec W 84:1004-5 N 8 '24
Job analysis promotes safety. J: J. Connors. Elec Ry J 64:773 N 1 '24
Safe practices, tools and devices; report of Pacific coast electrical association. J Elec 54:431-6 Je 1 '25
Safe tree trimming for line clearance. G: D. Blair. il Nat Safety N 11:13-14 F '25
Safety principles for a lineman. M. Williams. Nat Safety N 10:45 D '24

LINEMEN'S equipment
Grounding device reduces hazards to workmen. A. G. Carson. il Elec W 85:1223-4 Je 6 '25
Portable transformer hoist. diag Elec W 85: 774 Ap 11 '25
Safety belt for removing linemen from poles. G. W. Hurn. il Elec W 84:1160 N 29 '24

Testing
Testing distribution line tools for safety. T. B. Bash. Elec W 84:469-70 S 6 '24

LINEMEN'S gloves. See Gloves, Rubber

LINEN
Action of strong solutions of caustic soda on flax yarn and fabrics under conditions of mercerising. P. P. Viktoroff. Soc Dyers & Col J 41:143-5 Ap '25
Belfast linens are slack. A. S. Moore. Textile World 68:492 Jl 25 '25
Dear flax retards linens. A. S. Moore. Textile World 67:1260+ F 14 '25
First linen made on Pacific coast. Textile World 68:1334 S 5 '25
Irish linen. Economist 99:910-12 D 6 '24
Linen and bedding. F. J. Ringo. 119p Shaw '25
Linen as cotton's competitor. A. S. Moore. Textile World 65:1413-14 F 23 '24
Rise of the Irish linen industry. C. Gill. 359p [bibliog. p. 344-9] Oxford '25
Troubled outlook in Irish linen. A. S. Moore. Textile World 68:1152+ Ag 29 '25
Will linen supersede cotton? Comm & Fin 13: 267 Ja 30 '24
See also Bleaching—Linen; Flax; Hemp

Manufacture
Building linen plant in Oregon. il Textile World 67:3126-7 My 9 '25
Dress linens: their production and finish. A. S. Moore. Am Dyestuff Rep 13:85-6+ F 11 '24
Electrically-driven linen mill. il diag Elec R (Lond) 96:699-702 My 1 '25
Flax and its products. F. Bradbury. Textile Inst J 15:P333-47; Discussion. P371-3 Ag '24
Some aspects of linen weaving, ancient and modern. F. Anderson. il Textile Inst J 15: P348-70 Ag '24
See also Linen finishing

Testing
Significance of stress-strain curves of yarns and their application in testing. G. F. New and A. L. Gregon. Textile Inst J 14:T447-64 N '23
Strength as a test for linen. C. J. Burkley. Textile World 66:3121+ N 29 '24

LINEN finishing
Caustic soda as a mercerizing agent for linen. I. Ginsberg. Textile Col 47:629-32 O '25
Lustre finishing upon linen piece goods. R. Sansone. il Textile Col 46:359-63, 428-30, 641-4; 47:28-31, 156-9 Je-Jl, O '24, Ja, Mr '25
Sizing of linen fabrics and transparent batiste. A. Marshall. diag Am Dyestuff Rep 12:902-4 D 17 '23

LINEN research
Linen research work. A. S. Moore. Textile World 65:233+ Ja 12 '24
Research in relation to the linen industry. J. V. Eyre. Textile Inst J 15:P219-23 Jl '24

LINEN waste
Cottonizing of linen waste. S. C. Schimansky and P. P. Budnikoff. Color Tr J 14:73-5 F '24

LINEN weaving
Linen damask weaving. F. J. W. Shannon. Textile Inst J 16:P213-20 Jl '25

LINISHERS
Scope of the linisher. diags Mech Eng 47: 293 Ap '25

LINK-belt company
Fiftieth anniversary. Mach 31:995 Ag '25

LINOLEUM
Armstrong linoleum field work that promotes sales. A. K. Barnes. Ptr Ink 125:8+ N 15 '23
Laying linoleum on concrete or wood floors. il Concrete 24:19-20 Ja '24
Linoleum and competition. Economist 98: 1046-8 My 24 '24
Romance in school floors. il Bldg Age 46:66-8 Jl '24

Advertising
Value of a retail sales laboratory. Ptr Ink 129:10+ O 30 '24

Manufacture
Manufacture of floor covering. il Chem & Met Eng 32:480-5 My '25

Specifications
United States government master specification for battleship linoleum. U S Bur Stand Circ 191:1-6 '24; Abstract. Am Inst Arch J 13:42 Ja '25
United States government master specification for plain, inlaid, and printed linoleums. U S Bur Stand Circ 190:1-4 '24

LINOLEUM factories

Accounting
Linoleum manufacturing accounting. A. B. Barakat. J Account 37:432-40 Je '24

LINOTYPE
Linotype instruction book. J: R. Rogers. 242p Mergenthaler linotype co., Brooklyn, N.Y. '25
Linotype mechanism. A. G. Swank and R. Means. 151p Swank and Means, Indianapolis, Ind. '24
Linotypes and intertypes, their maintenance and mechanism explained. I. MacD. Sinclair. 2d ed 280p Milo Bennett's intertype school, Toledo, Ohio '24
Machine composition. E. M. Keating. See monthly numbers of Inland printer
Origin and development of the linotype machine. H: L: Bullen. il diag Inland Ptr 72: 769-71, 936-8 F-Mr '24
Story of an evolutionary printer. B. F. Chittick. Inland Ptr 76:281 N '25
Transpositions. E. M. Keating. Inland Ptr 74: 385 D '24
Wanted—an invention; gas pressure regulator for linotype machines. E: J. Cooney. Am Gas J 120:235+ Mr 15 '24

LINOXYN
Contribution to the chemistry of drying oils. G. W. Ellis. Soc Chem Ind J 44:401-8, 463-8, 469-72, 486 Ag 7, S 25-O 9 '25

LINSEED oil
Chemical and material markets in 1923. Chem & Met Eng 30:118 Ja 21 '24
Comparison of monel and copper kettles in boiling linseed oil. C. Fichandler. Ind & Eng Chem 17:478-80 My '25
Contribution to the chemistry of drying oils. G. W. Ellis. Soc Chem Ind J 44:401-8, 463-8, 469-72 Ag 7, S 25-O 2 '25
Control method for boiling drying oils. J. S. Long and J. G. Smull. il Ind & Eng Chem 17:138-41 F '25
Determination of free fatty acid in bodied linseed varnishes and oils. L: M. Larsen and W: J. Young. Ind & Eng Chem 17:277 Mr '25
Dielectric constants of some liquids, and their variation with temperature. G. E. Bell and F. Y. Poynton. diags Philos Mag 6th ser 49:1065-72 My '25
Effect of certain metallic soaps on the drying of raw linseed oil. L. L. Steele. Ind & Eng Chem 16:957-9 S '24
Effect of iron oxide pigments on rate of oxidation of linseed oils. F. H. Rhodes, C. R. Burr and P. A. Webster. Ind & Eng Chem 16:960-2 S '24
Industrial applications of ozone; effect on linseed oil. F. E. Hartman. Am Soc Heat & V E J 30:725-7 N '24
Linseed oil data collected in tariff probe show difficulty of comparison. Oil Paint & Drug Rep 105:19-20 F 18 '24
Linseed oil supply for crop year smaller. Chem & Met Eng 32:142 Ja 19 '25
Linseed oil tariff report has been submitted to President by commission. Oil Paint & Drug Rep 107:19 Mr 9 '25
Linseed-soya oil held dutiable at 3.3 cents. Oil Paint & Drug Rep 107:21 Je 22 '25
N.P.O. & V.A. report on linseed oil. Oil Paint & Drug Rep 108:59-60 N 5 '25
Polymerisation of linseed oils. N. Friend and H. J. Alcock. Chem Age (Lond) 10:513-14 My 17 '24
Production costs of linseed oil compiled for tariff hearing. Chem & Met Eng 30:290 F 18 '24
Rate of molecular weight increase in the boiling of linseed oil. J. S. Long and G. Wentz. Ind & Eng Chem 17:905-8 S '25
Recherche au point de vue des applications à la peinture, des différences existant entre les huiles grasses analogues à l'huile de pavot ou analogues à l'huile de lin; abstract. A. Eibner and B. Wibelitz. Chimie & Ind 14:96-8 Jl '25
Report of sub-committee V on linseed oil. Am Soc T M Pro 24 pt 1:432-40 '24
Study of liquid dielectrics. W. P. Davey and T: A. Wilson. il diags Gen Elec R 28:770-81 N '25 (to be cont)
Tariff commission hearing on linseed oil duty. Chem & Met Eng 30:406 Mr 10 '24; Oil Paint & Drug Rep 105:19+ Mr 10 '24
U. S. government specifications for raw, refined, and boiled linseed oil. Am Inst Arch J 13:80 F '25

Prices
Flaxseed and linseed oil. Published in weekly numbers of Oil paint and drug reporter

LINTELS
Standardized formwork for reinforced-concrete lintels. R. M. Singer. il diags Eng N 94:904-5 My 28 '25

LIPASE
Studies on enzyme action; the spontaneous increase in the activities of lipase and protease of tissue extracts. H. M. Noyes, K. Sugiura and K. G: Falk. Am Chem Soc J 46:1885-9 Ag '24

LIPOIDS
Extraction and estimation of lipoids in cereal products. O. S. Rask and I: K. Phelps. Ind & Eng Chem 17:187-9 F '25

See also Phospholipins

LIQUEFACTION of gases. See Gases—Liquefaction

LIQUEFACTION of hydrogen. See Hydrogen, Liquid

LIQUID air
Berechnung der luftverflüssigungs- und trennungsapparate. V: Fischer. Zeit Ver Deutsch Ing 68:647-53, 672-4 Je 21-28 '24
Concentration of argon from air by fractional liquefaction. G. R. Fonda, F. W. Reynolds and S. Robinson. diag Ind & Eng Chem 17: 676-8 Jl '25
L'économie de l'emploi des explosifs à l'air liquide. Génie Civil 83:497 N 17 '23
L'emploi de l'air liquide comme explosif minier. Herpin. Génie Civil 87:273-4 S 26 '25
Liquid air mine rescue apparatus. il diags Engineering 117:619 My 9 '24
Oxygen by the liquefaction process. A. G. Wikoff. il diags Chem & Met Eng 30:181-4 F 4 '24

See also Oxygen, Liquid

LIQUID carbonic company
Liquid carbonic sales organization. W. J. Graham. Management & Adm 10:255-8 N '25

LIQUID chlorine. See Chlorine, Liquid

LIQUID fuel
Coal-oil motor fuel interests Mines bureau. Oil Paint & Drug Rep 108:21+ Ag 24 '25
Complete utilization of coal and motor fuel. A. C. Fieldner and R. L. Brown. Oil Paint & Drug Rep 108:xii-xiii pt 2 O 5 '25; Same. Nat Pet N 17:83+ N 11 '25; Same cond. Coal Age 28:562-3 O 22 '25; Excerpt. Chem & Met Eng 32:799 O '25
La crise des carburants et les remèdes proposés. A. Travers. diags Chimie & Ind 13: 373-82, 722-30 Mr, My '25
La distillation des lignites pour la production d'huiles et d'essences minérales. V. Neveux. il diags Génie Civil 87:321-6, pl 4 O 17 '25
Les enseignements du dernier congrès de motoculture et des carburants nationaux. A. Guiselin. diags Soc Ing Civils Bul 78:73-151, pl 88 Ja '25
La fabrication des carburants synthétiques aux dépens des mélanges de carbone et d'hydrogène. E. Audibert. Chimie & Ind 13:186-94 F '25
Fuel resources and supplies for road transport. E. J. W. Slade. map Inst Pet Tech J 9:452-68 D '23
La houille et le problème des combustibles liquides. E. Audibert. diags Chimie & Ind 10:613-31 O '23
Hydrogenation by the Bergius process. H. G. Shatwell. Soc Chem Ind J (Chem & Ind) 44:471-7 My 8 '25
Kokerei und flüssige brennstoffe. P. Fritzsche. diags Zeit Ver Deutsch Ing 68:593-9 Je 7 '24
Latest German developments in coal liquefaction and synthetic methanol. il Chem Age (Lond) 13:268-9 S 12 '25
Liquefaction of wood and cellulose and some general remarks on the liquefaction of coal. H. E. Fierz-David. Soc Chem Ind J (Chem & Ind) 44:942-4 S 25 '25
Liquid fuels from water gas. F. Fischer. Ind & Eng Chem 17:574-6 Je '25
Liquid fuels of the future. Engineer 140:91 Jl 24 '25
Method of determining the dew points of fuel-air mixtures. R. J. Kennedy. diags U S Bur Stand Sci Pa 500:47-63 '25; Abstract. Mech Eng 47:850 O '25
Motor fuel problem. F. H. Rhodes. Sibley J 38:42-9 F '24
Motor fuels. J. S. S. Brame. Engineering 119: 516-17, 579 Ap 24, My 8 '25; Abstract. Chem Age (Lond) 12:408-9, 454-5 Ap 25, My 9 '25
La politique française des combustibles liquides. C: Pomaret. 418p Éditions de la Vie universitaire, Paris '23
La politique française du pétrole et des combustibles liquides. L: Pineau. Chimie & Ind 13:669-79 Ap '25; Abstract. Génie Civil 86: 483-5 My 16 '25

LIQUID fuel—*Continued*
Procédés de production des huiles légères pour les moteurs à combustion interne. M. Brutzkus. diags Chimie & Ind 14:171-85, 358-62 Ag-S '25
Production of liquid fuels from oil-shale and coal in Australia. R. E. Thwaites. Gas J (Lond) 165:779 Mr 26 '24
Research in liquid fuel economy. M. Sklovsky. Iron Age 116:1174-5 O 29 '25
Smokeless fuel and oil. C. H. Lander. Soc Chem Ind J (Chem & Ind) 44:521-3; Discussion. 523-4 My 22 '25
Solidification of liquid fuel. Chem Age 32: 203-4 Ap '24
Some further studies with the Moore spontaneous ignition meter. W. R. Ormandy and E. C. Craven. diags Inst Pet Tech J 10: 335-41 Je '24
Synthetic liquid fuel. Power 61:726 My 12 '25
La transmutation hydrogénée des combustibles en carburants. A. Grebel. Génie Civil 86:333-8 Ap 4 '25
L'utilisation des combustibles liquides dans les moteurs à combustion interne. S. Golczewski. diags Génie Civil 86:163-5 F 14 '25
Vapour pressures of binary and ternary fuel mixtures. J. S. Lewis. diag Inst Pet Tech J 11:152-70 Ap '25; Abstract. Engineering 119:587 My 8 '25; Discussion. Inst Pet Tech J 11:170-6 Ap '25

See also Airplane engines—Fuel; Alcohol as fuel; Automobile engines—Fuel; Benzol (commercial benzene); Bergius process; Fuel, Colloidal; Gas and oil engines—Fuel; Gasoline; Kerosene; Motor truck engines—Fuel; Naphthalene; Oil as fuel; Oil burners

LIQUID metals. See Metals, Liquid

LIQUID oxygen. See Oxygen, Liquid

LIQUID soap. See Soap, Liquid

LIQUIDS
Convective cooling of wires in streams of viscous liquids. A. H. Davis. diags Philos Mag 6th ser 47:1057-92 Je '24
Densities and compressibilities of several organic liquids and solutions, and the polymerization of water. T. W: Richards and H. M. Chadwell. Am Chem Soc J 47:2283-2302 S '25
Device for maintaining a slow, constant flow of liquid. C: Van Brunt. Ind & Eng Chem 17:966-7 S '25
Extremely dry liquids. G. N. Lewis. Am Chem Soc J 45:2836-40 D '23
Flow of liquids; some factors influencing friction, velocity distribution and heat transmission. W. H. McAdams. bibliog il charts Refrig Eng 11:279-88; Discussion. 288+ F '25
Handling volatile liquids. diag Chem & Met Eng 30:596-7 Ap 14 '24
Molecular association of liquids. E. E. Walker. Philos Mag 6th ser 47:513-25 Mr '24
Molecular association of liquids and highly-compressed gases. E. E. Walker. Philos Mag 6th ser 47:111-26 Ja '24
New energy relation governing liquids and vapors. J. E. Mills. J Phys Chem 29:68-73 Ja '25
Specific heats of certain organic liquids at elevated temperatures. J: W. Williams and F. Daniels. diags Am Chem Soc J 40:903-17 Ap '24
Theory of molecular interaction in the liquid state. G. N. Antonoff. Philos Mag 6th ser 50:265-89 Jl '25

See also Boiling points; Drops; Emulsions; Evaporation; Films; Fluids; Gases—Liquefaction; Hydraulics; Hydrodynamics; Liquid fuel; Solution (chemistry); Viscosity; Water; Wetting

Clarifiers

See Clarifiers

Gaging

See Gaging

LIQUOR-flavored extracts

Advertising

Prohibition commissioner interprets rulings on advertising liquor-flavored specialties. Ptr Ink 125:81-2+ N 15 '23

LIQUOR laws

See Prohibition

LIQUOR traffic
Britain taxing herself dry. H. N. Casson. Comm & Fin 14:1861 S 23 '25

See also Brewing industries; Distilling industries; Prohibition

Advertising

Advertising of liquor interests helps to keep Scotland wet. T: Russell. Ptr Ink 125:149+ D 6 '23
Government further restricts liquor advertising. Ptr Ink 127:44+ My 1 '24

LIQUORS
Some serious aspects of the alcohol problem. H. C. Lythgoe. Chem Age 32:209-14 My '24

See also Distillation; Wine

LITERARY property. See Copyright

LITHARGE. See Lead oxides

LITHIUM
Characteristic X-rays from lithium. G. K. Rollefson. Phys R 25:740-6 Je '25
Genesis of lithium pegmatites. W. T. Schaller. Am J Sci 5th ser 10:269-79 S '25
Market for lithium minerals. Eng & Min J 120:20 Jl 4 '25
Marketing of rare metals and minerals. H. C. Meyer. Eng & Min J 118:286 Ag 23 '24
So-called metal ammoniums; the vapor pressures of solutions of lithium in liquid ammonia. C: A. Kraus and W. C. Johnson. Am Chem Soc J 47:725-31 Mr '25

See also Spodumene

LITHIUM aluminum silicate. See Spodumene

LITHIUM chloride
Activities of strong electrolytes; a revision of the activity coefficients of potassium, sodium, and lithium chlorides, and potassium hydroxide. G: Scatchard. Am Chem Soc J 47:648-61 Mr '25
Properties of ammonium nitrate; the reciprocal salt pair ammonium nitrate and lithium chloride. E. P. Perman and W. R. Harrison. Chem Soc J 125:1709-13 S '24
Vapor pressures of lithium chloride solutions at 20°. F. B. Lovelace, W. H. Bahlke and J. C. W. Frazer. diags Am Chem Soc J 45: 2930-4 D '23

LITHIUM ethoxide
Action of hydrogen sulphide on lithium ethoxide; lithium hydrosulphide. J: H: Jones and J: S. Thomas. diag Chem Soc J 123: 3285-94 D '23

LITHIUM halides
Compressibilities of the chlorides, bromides and iodides of lithium, rubidium and cesium. T. W. Richards and E. P. R. Saerens. diag Am Chem Soc J 46:934-52 Ap '24

LITHIUM hydrosulfide
Action of hydrogen sulphide on lithium ethoxide; lithium hydrosulphide. J: H: Jones and J: S. Thomas. diag Chem Soc J 123: 3285-94 D '23

LITHIUM hydroxide
Studies on the swelling of cotton cellulose. G: E. Collins. Textile Inst J 16:T123-6 My '25
Velocity of reaction in mixed solvents; the influence of the base on the velocity of saponification of esters in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 125: 2590-5 D '24

LITHIUM perchlorate
Separation and determination of the alkali metals using perchloric acid; normal butyl alcohol and ethyl acetate as mixed solvents in the separation and determination of potassium, sodium and lithium. G. F: Smith and J: F. Ross. Am Chem Soc J 47:1020-6 Ap '25

LITHIUM potassium sulfate
Crystal structure of lithium potassium sulphate. A. J. Bradley. Philos Mag 6th ser 49:1225-37 Je '25

LITHIUM sulfides
Polysulfides of the alkali metals; the monosulphide and disulphide of lithium. J: S. Thomas and J: H: Jones. Chem Soc J 125: 2207-14 N '24

LITHOGRAPHERS
See National association of employing lithographers

LITHOGRAPHIC technical foundation, incorporated
Great coöperative movement. Inland Ptr 76: 268 N '25
Lithographic technical foundation. Inland Ptr 75:945-6 S '25
Lithographic technical foundation. Inland Ptr 75:260-1 My '25
Lithographic technical foundation; its history and purpose. Inland Ptr 74:909-10 Mr '25
Organization meeting, New York, Dec. 4. Inland Ptr 74:543 Ja '25
Reports of progress. Inland Ptr 75:399 Je '25
Review of conditions to date. Inland Ptr 75: 598 Jl '25

LITHOGRAPHY
Art of lithography. H: J: Rhodes. 2d ed., rev. and enl. 328p Van Nostrand '24
Color lithography with one negative. E. Bassist. Inland Ptr 75:259 My '25
Lithographic processes in architectural illustration. S: Chamberlain. il Am Arch 128: 207-10, pl 236-42 S 9 '25
Lithographic topics. Inland Ptr 74:911-12 Mr '25
Lithographing 72,000 sheets daily; decoration of steel sheet and tin plate. J: D. Knox. il Iron Tr R 74:789-95 Mr 20 '24
Lithography applied to textiles. il Textile World 65:3643 My 31 '24
Lithography in architectural sketching and rendering. V. Hagopian. il Am Arch 127: 131-4 F 11 '25
Metal lithography. R. T. Powell, ed. 89p R. T. Powell, New York '25
National association of employing lithographers convention, Del Monte, Calif., June 3-5. Ptr Ink 127:153-4 Je 12 '24
Process in lithography. E. Bassist. Inland Ptr 75:394-5 Je '25
Type—intaglio—offset. F. O. Sullivan. Inland Ptr 74:537-8 Ja '25
What process shall we use? W: A. Kittredge. Ptg Art 42:333-5 D '23
See also Engraving; Photolithography

Accounting
Cost system for lithography. A. Williamson. Inland Ptr 76:268-9 N '25

Advertising
Advertising lithography. Inland Ptr 75:596-7 Jl '25

LITHOPONE
Chemical and material markets in 1923. Chem & Met Eng 30:107 Ja 21 '24
Determination of asbestine in lithopone paint. F: G. Germuth. Ind & Eng Chem 17:1150 N '25
How lithopone is made. Eng & Min J 119:162 Ja 24 '25
Mechanism of lithopone formation. C: A. Mann. Chem & Met Eng 32:638 Jl '25
Proposed specifications for lithopone. Am Soc T M Pro 24 pt 1:479-80 '24
Rapid method to distinguish zinc oxide and lithopone pastes. E: O. Dunkley. Ind & Eng Chem 17:890 S '25

LITHUANIA
New Baltic states; Lithuania. Economist 99: 138-9 Jl 26 '24

LITHUANIANS in the United States
Cooperation among the Lithuanians in the United States. Monthly Labor R 19:466-8 Ag '24

LITTLE, Arthur D.
Portrait. Chem & Met Eng 31:534 O 6 '24

LITTLE ROCK, Arkansas
Little Rock, Arkansas—an industrial view. W. T. King. il Manuf Rec 86:473-8 pt 2 D 11 '24
Little Rock built on solid business foundation. W. King. il Manuf Rec 85:67-74 Je 26 '24

LIVE stock
First national livestock loan corporation is set up. R. A. Lewis, jr. Am Bankers Assn J 18:170-1 S '25
How chemistry helps solve livestock problems. J: R. Mohler. Am Inst Chem Eng Trans v 15 pt 2:185-91 '23
Livestock and meat industry. Comm M 6:3-9 Jl '24
Live stock industry and the gold standard. M. A. Traylor. Am Bankers Assn J 18:81+ Ag '25
Livestock industry turns upgrade. R. A. Cooper. Am Bankers Assn J 17:597-8 Ap '25
Post war readjustments on beef and cattle productions. Comm & Fin Chr 121:1295 S 12 '25
Report of President Coolidge's agricultural conference on emergency in livestock industry. Comm & Fin Chr 120:280-1 Ja 17 '25
Slaughtering next year's livestock. Comm & Fin 13:2457 D 24 '24
See also Cattle; Feeding and feeding stuffs; Lambs

Prices
Livestock prices in 1924 and 1925. Fed Res Bul 11:735-6 O '25

Statistics
Department of agriculture's statistics of farm animals in the United States on January 1, 1925. Econ W n s 29:194-5 F 7 '25
Livestock movement, 1921-1924. Survey of Cur Business 36:148-9 Ag '24
Position of the livestock industry. Fed Res Bul 10:862-4 N '24

Transportation
Chicago livestock transportation arrangements. J. G. Knapp. map Univ J of Business 3:68-81, 188-97 D '24-Mr '25
Finds livestock rates low. Ry Age 79:484-5 S 12 '25
Freight charge a small factor in the price of live stock. Ry R 74:1130-1 Je 14 '24
Study of live stock prices in relation to transportation costs. Ry R 76:168, 185 Ja 17-24 '25
Western roads ask livestock rate increases. Ry Age 78:1648-50 Je 27 '25
See also Stock cars

LIVE stock insurance. See Insurance, Live stock

LIVEING, George Downing, 1827-1924
Sketch. Soc Chem Ind J (Chem & Ind) 44: 116-17 Ja 30 '25

LIVERPOOL cathedral
Cathedral church of Christ, Liverpool. il Am Inst Arch J 12:342-53 Ag '24
Liverpool cathedral. H. D. Eberlein. il diags plan Arch Rec 57:1-15 Ja '25

LIVINGSTONE, William, 1844-1925
Sketch. por Marine R 55:430-1 N '25

LLOYD GEORGE, David
Radio's torchlight parade to Lloyd George. E. H. Felix. por il Wireless Age 11:32-3 D '23

LLOYD'S, London
Illegal operations of members of Lloyd's, London, in New York. F. R. Stoddard, jr. Econ W n s 27:380 Mr 15 '24
Kings come and go—Lloyd's lives on. Nation's Business 12:71 D '24
Lloyd's. il Marine Eng 29:514-15 S '24
Lloyd's, London, and the recent case of an insolvent member. Econ W n s 27:850-1 Je 14 '24
Recent development in Lloyd's. D. E. W. Gibb. Harvard Business R 2:345-53 Ap '24
The security of a Lloyd's policy. Economist 98:950-1, 996-7 My 10-17 '24

LLOYDS' associations
Lloyds' plan of insurance explained. H. H. Parmenter. Spectator 112:28-9 Je 5 '24

LOAD (mechanics)
Distribution of load on the balls and rollers of ball and roller bearings. J: Goodman. diags Engineering 119:753-5 Je 19 '25
Dynamic effect of moving floor loads; stresses measured in the floor and balcony of a college gymnasium. Am Arch 126:455-6 N 5 '24
Effect of external load on fastenings. H. W. Leet. diags chart Am Mach 63:763-4 N 12 '25
How bearing loads on idler gears may be determined. R. S. Condon. diags Automotive Ind 53:788-9 N 5 '25
Live-loads for building designs; standards recommended by Building code commission of the U. S. Department of commerce. Eng N 95:214 Ag 6 '25
Minimum live-loads in building design. Eng N 94:878, 1032 My 28, Je 18 '25
Problem of eccentric loading on earth. Eng N 93:722, 881-2 O 30, N 27 '24

See also Bridges—Load; Strains and stresses

LOAD line
Freeboards and load lines. E. C. Bennett. Marine Eng 30:321-2 Je '25
Safety factors in lake ships. A. Lindblad. Marine R 53:462-4 D '23

LOADING and unloading
Commission proves that machine loading reduces mine cost 30 per cent. charts diag Coal Age 24:733-8 N 15 '23
Economic uses of the bucket loader in paving work. J. E. Marson. il Eng & Contr (R & S) 64:511-17 S 2 '25
L'installation de déchargement de la Compagnie nouvelle de Sucreries réunies, à Ham (Somme). C: Dantin. il diags Génie Civil 85:185-9 Ag 30 '24
Jeffrey Tanktred portable loader. il Power 60: 512 S 23 '24; Chem & Met Eng 31:390-1 S 8 '24; Manuf Rec 86:90 O 23 '24
Loading device for slushing. I. W. Farrand. il diags plan Eng & Min J 117:531-2 Mr 29 '24
Loading hopper increases truck efficiency. il Management & Adm 10:92 Ag '25
Loading materials in small operations. il Eng & Min J 119:971-2 Je 13 '25
Mechanical loaders and unloaders. M: W. Potts. il Ind Management 67:107-14 F '24
Mine loaders find wide range of use. R. P. Greenleaf. il diag Iron Tr R 77:75-7+ Jl 9 '25
Neuzeitliche deutsche selbstentlader. M. Buhle. il diags Zeit Ver Deutsch Ing 69:1301-5 O 10 '25
Eine neuzeitliche verlade- und begichtungsanlage. A. Schruff. il diag plan Stahl & Eisen 45:1517-21 S 3 '25
Rail and water transport in containers. H. Schlatter. diags Cassier's Ind Management 11:81-3 F 7 '24
Unloading system for extractors and dye tubs. il Textile World 67:3149 My 9 '25

See also Coal loading machines; Conveying machinery; Dump cars; Dumping appliances; Freight handling; Lifting magnets; Mechanical handling; Scrapers

Cars
Grain elevator operation with automatic box car unloader. il plan Ry R 75:732-7 N 8 '24

Motor trucks
Acme automatic loader. il Eng & Contr (R & S) 62:758 O 1 '24
Diverse uses indicated for truck loaders. il Eng N 93:688 O 23 '24
Gravel loading device. E. L. Stump. il diag Eng & Contr (R & S) 64:333 Ag 5 '25
Loading and unloading bulk materials to and from motor vehicles. il Cassier's Ind Management 11:215-17, 246-9, 277-9 Ap 17-My 15 '24

Ships
Care and use of electric winches. A. O. Loomis. il Marine R 54:456-60+ D '24
Cargo cranes prove successful. il Marine R 55:57-9 F '25
Coal-handling plant for loading barges and coasting vessels direct from the colliery. il diag Cassier's Ind Management 12:143-4 F '25
Electric drive in ports and harbours. W. A. Perry. Elec R (Lond) 94:488-9 Mr 28 '24
Finds new use for old ships; self-unloading installations. R. V. Sawhill. il diags Marine R 55:7-12 Ja '25
Floating pneumatic grain elevators for the port of London. il diags Engineer 139:296-8, 300 Mr 13 '25
Handling bananas at the port of New Orleans. F. B. Peebles. il diags Cassier's Ind Management 12:329-32 Je '25
How Henry Ford loads ships and operates lake to ocean and coastwise services. A. H. Jansson. il Marine R 55:73-80 Mr '25; Abstract. Iron Tr R 76:696-8 Mr 12 '25
Meets needs of fast liner service. H. R. Simonds. il Marine R 55:13-16 Ja '25
New York Central increases capacity of pier; installs revolving cranes. il diag Ry Age 79:529-31 S 19 '25; Elec W 89:952-3 N 7 '25
Le port maritime et fluvial de Rotterdam (Hollande). A. Bijls. il Génie Civil 85:549-50 D 13 '24
Relative advantages of ship equipment and port equipment for loading and discharging ships. A. R. T. Woods. Cassier's Ind Management 11:218-22 Ap 17 '24
Self unloader cuts time in port. diags Marine R 55:166-7 Ap '25
Self-unloading Great Lakes bulk cargo vessels. H. Penton and H. C. Sadler. diags Marine Eng 30:103-9 F '25; Same cond. Engineering 118:723-4 N 21 '24; Abstract. Eng N 94:109 Ja 15 '25; Abstract. Cassier's Ind Management 12:183 Mr '25; Discussion. Marine Eng 29:729-30 D '24
Ships unloaded by barges operating on slipway structure. diags plans Eng N 95:707-8 O 29 '25
Slipway for handling cargo on the coast of Guatemala. il Engineering 120:238-40, pl 15 Ag 21 '25
Telescopic conveyor for ship cargo handling. G. F. Nicholson. il Cassier's Ind Management 11:106-7 F 21 '24

See also Coal piers

LOANS
Borrowing. R: W. Saunders. Bankers M 109: 394 S '24
Cheap money, business and the stock market. B: M. Anderson, jr. Comm & Fin Chr 120: 2494-5 My 16 '25; Same. Am Management R 14:179-81 Je '25
Securing funds for business expansion. A. M. Leinbach. Management & Adm 8:33-8 Jl '24; Same. Paper Tr J 79:53-6+ Ag 21 '24

See also Building loans; Debts, Public; Interest; Investments; Securities

LOANS, Bank
Bank credit. Fed Res Bul 11:454-5 Jl '25
Bank loan—deposit ratios. Moody's Inv Serv 16:129-32 Mr 27 '24
Bank loans to finance the installment buyer. B. Davenport. Am Bankers Assn J 18: 312+ N '25; Same. Comm & Fin Chr 121: 2476-7 N 21 '25
Bankers' balances as the first sign of the turn in money demand. R. A. Lewis, jr. Am Bankers Assn J 17:555-6 Mr '25
Call money and its relation to bank credits. D. R: Young. Am Bankers Assn J 17:69-71+ Ag '24; Same. Econ W n s 28:294-7 Ag 30 '24
Cyclical fluctuations of the ratio of bank loans to deposits, 1867-1924. W. M. Persons. charts R Econ Statis 6:260-83 O '24
Distribution of loans made by national banks, 1911-1923. Survey of Cur Business 31:21 Mr '24
Financing the cooperatives. O. J. Sands. Am Bankers Assn J 18:156+ S '25

LOANS, Bank—*Continued*
Five practical forms of financing. System 48:548-9+ N '25
Meaning of 2 per cent money. Am Bankers Assn J 17:1-2 Jl '24
Mortgage loan investments by banking institutions. L. D. Woodworth. Comm & Fin Chr 119:2579-80 D 6 '24
National bank real estate loans. L: Alexander. Am Bankers Assn J 18:323-4 N '25
Need for longer loans on real estate by national banks. A. F. Dawson. Am Bankers Assn J 18:229-30 O '25; Same. Comm & Fin Chr 121:107-9; Discussion. 115-16 sec 2 O 17 '25
Problems of national bank liquidity in the crisis and depression, 1920-1921. W. F. Mitchell. Univ J of Business 3:18-32 D '24
Proportion of its loanable funds which a national bank should lend upon real estate security. T: M. Steele. Comm & Fin Chr 119:136-9 sec 2 O 18 '24; Same cond. Am Bankers Assn J 17:259-60 O '24
Providing capital for agriculture. G. G. Munn. Bankers M 109:649+ O '24
Real dividends from a loan. W. W. Head. Am Bankers Assn J 17:13-14 Jl '24
Sam Jones tries to borrow $500—is turned down. Bankers M 110:653-4 Ap '25
Watching the duplicate borrower. C. W. Allendoerfer. Comm & Fin Chr 119:123-4 sec 2 O 18 '24; Same. Am Bankers Assn J 17:206 O '24; Discussion. Comm & Fin Chr 119: 127-8 sec 2 O 18 '24
What 30 years of banking taught me about financing. A. C. Ratshesky. System 46:571-5+ N '24
Why the banker says yes. System 48:425-7 O '25
See also Advertising and bankers; Usury laws

LOANS, Foreign
America will gain by financing Europe's reconstruction. R. F. Zinkann. Annalist 23: 579-80+ My 19 '24
American bankers' rights and responsibilities in connection with the Dawes plan loan to Germany. B: M. Anderson, jr. Econ W n s 27:737-8 My 24 '24
American investors and pending European loans. Moody's Inv Serv 17:285-8 Ag 27 '25
Berlin observer warns American capital. R. C. Long. Annalist 24:92+ Jl 28 '24
Demand in Europe for American dollars. Annalist 23:633 Je 2 '24
Difficulties of a great international loan to Germany for use in paying reparations. B. M. Anderson, jr. Econ W n s 27:377-8 Mr 15 '24
Dutch East Indies loan coming. Moody's Inv Serv 16:179 My 1 '24
Effect on American industries of American loans to Germany. O. B. Iles. Am Mach 62: 624 Ap 16 '25
Foreign loans. Nat City Bank p 5-7 Ja '25
Foreign loans; aggregate since 1918. Index p 6 N '24
Foreign loans as investments from the standpoint of American investors. Econ W n s 28:477-8 O 4 '24
Foreign loans placed in the United States, 1919-1923. Fed Res Bul 10:92-3 F '24
Foreign securities in American markets. Details of loans and economic conditions of countries floating loans published from time to time in Annalist
Forthcoming German loan. Moody's Inv Serv 16:375, 383 O 9-16 '24
Forthcoming Hungarian reconstruction loan; participation by New York bankers. Comm & Fin Chr 118:3148-9 Je 28 '24
Forthcoming $200,000,000 German loan agreement signed in London. Comm & Fin Chr 119:1693-4 O 11 '24
German loan. Nat City Bank p 5-7 N '24
German loan and the security back of it. N. K. Toerge. Comm & Fin Chr 119:1350-1 S 20 '24
German loan heavily over-subscribed. Bradstreet's 52:669 O 18 '24
German loan—what next? Moody's Inv Serv 16:295 Jl 31 '24
Greek government 7% refugee loan of 1924. Comm & Fin Chr 120:279-80 Ja 17 '25
Hungarian loan approved by League of nations—Hungary's attitude. Comm & Fin Chr 118:266-7 Ja 19 '24
Hungary; conditions and guarantees under which she is expected to offer $20,000,000 of her bonds in America. E. Lengyel. Annalist 23:628+ Je 2 '24
Investors in foreign loans. D. P. Morrow. Comm & Fin Chr 119:639 Ag 9 '24
Japan's international loan. E: A. Bradford. Annalist 23:239 F 18 '24
League of nations plan for Hungary's financial rehabilitation; proposed loan. Comm & Fin Chr 118:1082-4 Mr 8 '24
New plans for supplying world credit needs. Comm & Fin Chr 121:281 Jl 18 '25
Proceeds of the German loan. Index p 7 Ja '25
Putting the dollar to work in Europe is business, not sentiment. H. P. Willis. Annalist 23:603-4+ My 26 '24
Reports that Italy might float loan through J. P. Morgan & co., denied by T. W. Lamont. Comm & Fin Chr 120:2641-2 My 23 '25
Shall we be the world's bankers? W. L. Clause. il Nation's Business 13:16-19+ S '25
Subscriptions opened to Irish Free State loan. Comm & Fin Chr 117:2377-8 D 1 '23
Successful flotation of German external loan of 1924. Comm & Fin Chr 119:1796-9 O 18 '24
Successful flotation of the international loan for the rehabilitation of Hungary. Econ W n s 28:163 Ag 2 '24
Unchanged attitude of President Coolidge on foreign loans. Comm & Fin Chr 120:1831 Ap 11 '25
United States department of state and foreign loans. A. N. Young. Econ W n s 28:401-4 S 20 '24
What aid does American self-interest dictate for Germany? R. F. Zinkann. Annalist 23: 661+ Je 9 '24
Why we should lend money abroad. G: E. Roberts. il Nation's Business 13:18-21 O '25; Discussion. W. L. Clause. 13:60 N '25
See also Debts, Public; German indemnities

LOANS, Small
See Credit unions

LOBBIES. See Halls

LOCARNO, Switzerland
Locarno. H: Winslow. il Am Inst Arch J 13: 237-44 Jl '25

LOCARNO conference

Treaties
Foreign affairs. Nat City Bank p 177-8 N '25
Locarno and the new Europe. Comm & Fin Chr 121:1839-41 O 17 '25
Locarno settlement. Bradstreet's 53:689 O 24 '25
Rhineland security treaty between Germany and other powers, initialed at Locarno along with arbitration pacts. Comm & Fin Chr 121:1984-6 O 24 '25

LOCATING (machine work)
Locating holes to be drilled at an angle. A. T. Gregory. diags Am Mach 62:821 My 21 '25
See also Dividing (machine work)

LOCATING devices
Application of button method of locating work. C: Kugler. diags Mach 31:393-4 Ja '25
Brown & Sharpe toolmakers' buttons. il Mach 31:583 Mr '25
Machine for locating eccentrics on axles. L. V. Mallory. diags Ry Mech Eng 98:696-7 N '24
National tool engineering co. locator. il Am Mach 61:1018 D 25 '24
Spotting tool for strippers and punch pads. E. L. Holcomb. diag Mach 31:274 D '24

LOCATING devices—*Continued*
Stock locating and stripping devices for press dies. S. A. McDonald. diags Mach 30:380-1 Ja '24

See also Centering

LOCATION (in business)
One move reduced our expenses $250,000 a year. J. H. Graham. Sales Management 8: 939-40+ Je 27 '25
We discover some better ways in building. R. W. Stevens. System 47:800+ Je '25
When does it pay to move? L. B. Cummings. System 45:614-17+ My '24

See also Factories—Location; Offices—Location; Stores (retail trade)—Location; Warehouses—Location

LOCKER rooms
Locker room planning and equipment. P. S. Tyre. il plans Arch Forum 42:193-6 Mr '25
Ventilation of locker rooms. J. H. Ritchie. diag plan Arch Forum 42:197-8 Mr '25

LOCKERS
Steel lockers (single and double tier). (Simplified practice recommendation no. 35) 8p U.S. Bur. of stand., Washington '25
Vote to adopt reduction in steel lockers. Iron Age 114:1415 N 27 '24

LOCKS (hydraulic engineering)
Concreting plant for Ohio river lock. W. F. Heavey. il plan Concrete 24:146-8 Ap '24; Same. Eng & Contr (Ry) 62:415-19 Ag 20 '24
L'écluse de Brondolo, sur le canal de Venise au Pô. diag map Génie Civil 83:522 N 24 '23
Emergency dam of Seattle canal lock. A. W. Sargent. il diag Eng & Contr (G C) 64:910-13 O 21 '25
La grande écluse d'Ymuiden, sur le canal d'Amsterdam à la mer du Nord. A. Bijls. il diags plans Génie Civil 87:141-8 Ag 15 '25
Great Lakes engineering problems. H. J. Lamb. il chart maps Can Eng 47:289-92, 315-18 S 2-9 '24
Hydro-electric development at the Muscle Shoals, Alabama. il diags plans Engineer 140:31-2 Jl 10 '25
Lifting lock. il Sci Am 129:395 D '23
New type movable dam guards Soo canal locks. L. C. Sabin. il diags Eng N 93:656-60 O 23 '24
New type of canal lock gate developed in Sweden. L. Lawski. il diag Eng N 93:135-6; 95:396-7 Jl 24 '24, S 3 '25
Les portes à secteurs de l'écluse maritime du canal de Södertälje (Suède). il diags map plans Génie Civil 83:643-6 D 29 '23
Power developments on the Barge canal. il diag plan map Power Pl Eng 28:882-6 S 1 '24
Regulation of the Murray river. il diags map Engineering 119:371-4, 405-6, 469-70, pl 24-5, 30 Mr 27-Ap 3, 17 '25
Salt water climbs the locks of the Panama canal. R. Z. Kirkpatrick. plan Eng N 92: 935-6 My 29 '24
Tightening anchorage rods while heated. R. Z. Kirkpatrick. diag plan Eng N 94:405 Mr 5 '25
Die wasserbewegung beim betriebe von kammerschleusen. B. Schumacher. diags Zeit Ver Deutsch Ing 68:803-8 Ag 2 '24

Control

Elektrisch angetriebene signale im schleusenbetrieb; abstract. Klietz. Elektrotech Zeit 45:339-40 Ap 10 '24

Repair

Box bulkhead used in repair of valves in canal lock. F. Y. Parker. il Eng N 94:531 Mr 26 '25

LOCKS and keys
Locks and keys. H. L. Harris. il Am Arch 124:407-11, 451-5 N 7-21 '23
Making locks for the U.S. mails. il Iron Age 116:1249-50 N 5 '25
Nouvelle serrure, système Birlé, pour la fermeture des portières des voitures des chemins de fer. diags Génie Civil 86:315-16 Mr 28 '25
L'origine et l'évolution de la serrure. il diag Génie Civil 86:45-6 Ja 10 '25
Romance of the lock; its development, and the means employed to beat it, from the earliest days. E: H. Smith. il Sci Am 130: 78-9+ F '24

Advertising

Tonic for the weak sisters of the family. W. B. Edwards. Ptr Ink 133:207-8 N 5 '25

LOCOMOBILES. See Steam engines, Portable

LOCOMOTIVE bells
New type locomotive bell ringer. il diags Ry R 73:702-3 N 10 '23

LOCOMOTIVE boiler explosions
Annual report of the Bureau of locomotive inspection. Ry R 74:16 Ja 5 '24
Disastrous results of an arch tube failure. Ry R 75:212-13 Ag 9 '24
Locomotive crown sheet failures. Ry R 77:47 Jl 11 '25

LOCOMOTIVE boilers
Autogenous or fusion welding on locomotive boilers. A. G. Pack. Ry Mech Eng 98:498-9 Ag '24
Bagnulo locomotive boiler. diags Engineering 120:149-51 Jl 31 '25
Boiler shop practice. 448p Railway training institute, Chicago '25
Causes and prevention of pitting in locomotive boilers. C. H. Koyl. Ry Mech Eng 99:517-18 Ag '25
Effect of water conditions upon lengthened locomotive runs. L. F. Wilson. Ry R 74:848-9 My 10 '24
Evaporative capacity of locomotive boilers. A. P. Poperev. charts Ry Mech Eng 99:487-92, 548-54 Ag-S '25; Discussion. 99:606, 664-5, 741-2 O-D '25
Hungarian Mallet with Brotan type boiler. il diags plan Ry Age 77:407-10 S 6 '24; Same. Ry Mech Eng 98:583-6 O '24
Links in the history of the locomotive. E. A. Forward. diag Engineer 136:638-9, 661-3 D 14-21 '23
Locomotive boiler performance. E. C. Poultney. Engineer 137:192-5, 218-21 F 22-29 '24
Locomotive boilers. Engineer 137:312 Mr 21 '24
Locomotive inspection law amended March 4, 1915, and June 7, 1924. 107p U.S. Interstate commerce commission. Bur. of locomotive inspection '25
Locomotive no better than boiler. C. A. Seley. Ry Age 78:283 Ja 24 '25
Locomotive type boilers. diags Power Pl Eng 28:27 Ja 1 '24
Notes sur la chaudière locomotive. M. Demoulin. Génie Civil 85:34-6, 59-62 Jl 12-19 '24
Paying weight in locomotive boilers. C. A. Seley. Ry Age 76:1216-18 My 17 '24
Pitting and grooving in boilers; report to the Master boiler makers' association. Ry Mech Eng 98:558-9 S '24; Discussion. S. H. Woodroffe. 99:4 Ja '25
Le réchauffage de l'eau d'alimentation des chaudières de locomotives. Génie Civil 86: 384-7 Ap 18 '25
Serviceability and economies of 100 per cent locomotives. C. A. Seley. Ry R 74:797-800 My 3 '24; Excerpts. Ry Age 76:1037-8 Ap 26 '24
Study of the locomotive boiler. L. H. Fry. 157p Simmons-Boardman pub. co., New York '24
Unloading and placing a sixteen-ton locomotive boiler. A. A. Fette. diags Power 61:69 Ja 13 '25
Water treatment on the Chicago & Alton R. R. L. O. Gunderson. il Ry R 75:571-5 O 18 '24

See also Feed water heaters; Feed water purification; Locomotive fireboxes; Locomotive grates; Locomotive smoke boxes; Locomotives; *also* Master boiler makers' association

Firing

DuPont-simplex type B locomotive stoker; recent developments. A. M. Hunt. diags plan Ry R 74:969-71 My 31 '24; Ry Age 76: 1327-9 My 31 '24

LOCOMOTIVE boilers—*Continued*

Repair

Modern locomotive boiler reconditioning shop, Alsace-Lorraine railway. J. T. Burton-Alexander. il diags plan Engineer 137:404-7, 414 Ap 18 '24

New Northern Pacific boiler shop is well equipped. B. Blum. il diag plan Ry Age 78: 1257-9 My 23 '25

See also Locomotive shops

LOCOMOTIVE cabs

Clear vision window and ventilator. diags Ry R 74:698 Ap 12 '24

Cory-Kent locomotive clear view screen. il Ry Age 79:196 Jl 25 '25

Temperature in cabs of freight locomotives passing through tunnels of the Chesapeake & Ohio railroad. S. H. Katz and E. G. Meiter. diag maps U S Bur Mines Rep of Invest 2624:1-8 '24 (typew); Same abr. Ry Age 75:461-3 S 13 '24; Same. Ry R 77:391-6 S 13 '24

LOCOMOTIVE engineers

Locomotive engineers and firemen. Monthly Labor R 20:336-40 F '25

Railroad phenomenon. W. W. Adair. Ry Age 77:247-8 Ag 9 '24

Report on the work of the traveling engineer. Ry Age 77:506-7 S 20 '24

Traveling engineer an instructor. D. C. Buell. Ry Age 79:611-12 O 3 '25

See also Traveling engineers' association

LOCOMOTIVE feed water heaters. See Feed water heaters

LOCOMOTIVE fireboxes

Fire-box stays and the metallurgist. Engineer 136:645-6 D 14 '23; Discussion. E. C. Poultney. 136:702 D 28 '23

Four-sheet fireboxes for Mallet locomotives. il Ry R 75:161-5 Ag 2 '24

McClellon firebox. W. L. Bean. il Ry Age 78:281-2 Ja 24 '25

Nicholson thermic syphon installations on Brazilian railways. diags plan Ry R 76: 581 Mr 21 '25

One piece plate for Southern Pacific locomotive fireboxes. il Blast F & Steel Pl 12:557-8 D '24

Treated water and firebox renewals. W. A. Pownall. Ry Mech Eng 99:541-2 S '25

Wastage of locomotive fire-box stays. Engineer 139:sup44-5 Mr 27 '25

Repair

Removing and renewing firebox sheets. Ry Mech Eng 98:499-500 Ag '24

Welding on copper fireboxes of locomotives. J. F. Springer. Ry Mech Eng 98:293-4 My '24

LOCOMOTIVE firemen

Locomotive engineers and firemen. Monthly Labor R 20:336-40 F '25

LOCOMOTIVE grates

Automatic latch for grate shaker bars. il Ry Age 79:188 Jl 25 '25

Covering grates with paper an aid in fuel conservation. J. L. Marley. Ry R 75:615-16 O 25 '24

Eliminating grate shakers as a source of locomotive accidents. F. M. A'Hearn. diag Ry R 74:249-50 F 9 '24

Grate bars with adjustable lugs aid in reducing cost of maintenance. Ry R 75:670 N 1 '24

Grate shaker bar posts provided with security latch. il Ry Age 78:1485 Je 13 '25

Report on grates with restricted air openings. Ry Age 78:1390-1 Je 6 '25; Ry Mech Eng 99: 547-8 S '25

LOCOMOTIVE headlights

Report of A. R. A. committee on locomotive and car lighting. diags Ry Age 76:1558-60 Je 14 '24

LOCOMOTIVE industry

See also American locomotive company; Baldwin locomotive company

Statistics

Locomotive and motor car orders in 1924. Ry Mech Eng 99:90-3 F '25

Locomotive equipment in the year 1924. Ry R 76:29-41 Ja 3 '25

Locomotive exports. Survey of Cur Business 44:27-8 Ap '25

Locomotive orders and types in 1923. Ry Mech Eng 98:76-8 F '24

Locomotive orders in 1924. F. W. Kraeger. il Ry Age 78:69-74 Ja 3 '25

Locomotive shipments in 1924. Iron Age 115: 346 Ja 29 '25

Locomotives built for foreign countries during the year 1923. Ry R 74:50 Ja 5 '24

Locomotives delivered and on order, 1923. Ry R 74:50-63 Ja 5 '24

Record-breaking increase in motive power. Ry Age 76:77-82 Ja 5 '24

LOCOMOTIVE resistance

Locomotive resistance and tractive force. K. Asakura. chart Ry Mech Eng 98:523-7 S '24; Correction. 98:725 D '24

LOCOMOTIVE shops

Albuquerque, N.M., improved shop operation. il Ry Mech Eng 98:333-42 Je '24

Albuquerque shops of the Santa Fe. H. Campbell. il Am Mach 60:799-801, 847-50 My 29-Je 5 '24

Analyzing shop output and costs. J. E. Slater. Ry R 76:648-51, 698-701 Ap 4-11 '25; Same cond. Ry Age 78:507-11 F 28 '25

B.R. & P. has well organized production shop. il plans Ry Mech Eng 98:295-9 My '24

Burlington's new shops greatly increase facilities. il diags plans Ry R 74:64-73 Ja 5 '24

C.B. & Q.R.R. dedicates new locomotive shops. il Ry R 73:857-9 D 15 '23

Classification of locomotive repair shops. G: Armstrong. diags plan Ry Mech Eng 98:41-6 Ja '24

Denver & Rio Grande Western rebuilds shops. il diags plans Ry Age 76:1193-1200 My 17 '24; Ry Mech Eng 98:491-6 Ag '24

Erie completes modern addition to Hornell shop. il diags plans Ry Age 76:181-5 Ja 12 '24

Few points for erecting shop men. W: Hall. il Ry Mech Eng 98:179-80 Mr '24

Handling rod work at Battle Creek shops. M. H. Westbrook. il plan Ry Mech Eng 98:437-42 Jl '24

Kansas City Southern enlarges its main shops at Pittsburg, Kan. il plan Ry Age 76: 1807-11 Je 28 '24

Locomotive repairs in new Burlington-Denver shops. H. Campbell. il Am Mach 61:447-50, 531-3 S 18, O 2 '24

Locomotive shop practices on Canadian railways. W. W. Baxter. il Ry R 76:1097-1103 Je 13 '25

Maintenance of rolling stock on New England railroads. E. Sheldon. il Am Mach 62:221-4, 269-71, 313-16, 351-5 F 5-26 '25

Maintenance requirements for the mechanical equipment of a railroad. P. L. Battey. il diags W Soc E J 29:405-15 N '24; Same cond. Ry R 75:537-40 O 11 '24; Excerpts. Am Mach 61:583-4 O 9 '24

Modern locomotive boiler reconditioning shop, Alsace-Lorraine railway. J. T. Burton-Alexander. il diags plan Engineer 137:404-7, 414 Ap 18 '24

Modern practice in driving rod repairs. il Ry R 75:236-44 Ag 16 '24

More ton-miles per shop-dollar. F. M. A'Hearn. Am Mach 62:763-6 My 14 '25

New Northern Pacific boiler shop is well equipped. B. Blum. il diag plan Ry Age 78: 1257-9 My 23 '25

Les nouveaux ateliers de machines de la Compagnie Paris-Lyon-Méditerranée, à Nevers. plan Génie Civil 84:454-5 My 10 '24

Operations in the Cotton Belt shops. H. Campbell. il Am Mach 62:885-6 Je 4 '25; Discussion. 63:424 S 10 '25

L'organisation du travail dans les grands ateliers de locomotives de la Compagnie du Chemin de fer d'Orléans. M. Bloch. Génie Civil 87:172-4 Ag 22 '25

LOCOMOTIVE shops—*Continued*
Organization of machine shop forces. J: Korb. Ry R 76:425-6 Mr 7 '25
Pere Marquette Ry. enlarges its Wyoming shops. il diag plans Ry R 74:1108-19 Je 14 '24
Reducing the cost of locomotive repairs. W: S. Cozad. Ry Mech Eng 98:751-7 D '24
Reducing the time of handling driving boxes. E. Marx. diags Ry Mech Eng 98:685-8 N '24
Repairing driving boxes in the average size shop. H. H. Henson. il Ry Mech Eng 99: 236-7 Ap '25
Shop scheduling and production control. L. C. Bowes. Ry R 73:925-9 D 29 '23
Slack-time jobs for railroad shops. F. M. A'Hearn. Am Mach 61:332 Ag 28 '24
Southern railway opens new shops at Birmingham. il diags plans Ry R 76:20-8 Ja 3 '25; Ry Age 77:1159-64 D 27 '24; Ry Mech Eng 99:165-75 Mr '25
Union Pacific systematizes running repairs. il Ry Mech Eng 98:694-6 N '24
Y & M V shops at Vicksburg. H. Campbell. il Am Mach 62:833-8 My 28 '25

See also Locomotive terminals; Locomotives—Repair; Railroads—Shops

Accounting

Distribution of overhead charges in locomotive shops. W. A. Jones. Ry Mech Eng 99:513-15 Ag '25

Equipment

Electric trucks in the locomotive repair shop. H. J. Payne. il diag Ry Mech Eng 99:719-21 N '25
Gas takes charge of heating in the railroad shop. J. H. Gumz. il Gas Age 55:571-4 Ap 18 '25
Labor saving devices. il diags Ry Mech Eng 98:634-6 O '24
Locomotive repairs at the Bellmead shops. H. Campbell. il Am Mach 61:219-21, 257-9 Ag 7-14 '24
Miscellany of railroad jobs. L. C. Morrow. il Am Mach 61:173-6 Jl 31 '24
Some impressions of Burnham locomotive shop. il diag Ry Mech Eng 99:713-18 N '25
Southern builds modern equipped locomotive shops. il plans Ry Mech Eng 99:165-75 Mr '25
Truck wheel press converted into a driving box press. V. T. Kropidlowski. diag Ry Mech Eng 98:490 Ag '24
Turret lathe in the railroad shop. il diags Mach 31:346-8 Ja '25
Versatile tool for locomotive repair shops. L. R. Gurley. il Ry Mech Eng 99:295-9 My '25
Whiting screw-type electric drop table. il Ry Age 77:1167 D 27 '24; Ry R 75:1038 D 27 '24; Ry Mech Eng 99:65-6 Ja '25

LOCOMOTIVE smoke boxes
Steam pipe and smoke box arrangement on some modern locomotives. W. H. Winterrowd. il diags Ry R 76:757-65 Ap 25 '25

LOCOMOTIVE terminals
Advanced design in new engine terminal at Richmond. il diags plans Ry Age 76:492-9 Mr 1 '24
A.R.A. report on the design of shops and engine terminals. Ry Age 78:1548-50 Je 20 '25; Ry Mech Eng 99:410-16 Jl '25
Assignment of locomotives for enginehouse repairs. il Ry Mech Eng 99:325-30 Je '25
Better terminals versus more locomotives. L. G. Plant. Ry Mech Eng 98:632-4 O '24
Canadian National railways engine terminal at Moncton, N.B. il diags plans Ry R 75; 785-95 N 15 '24
Concrete mattress foundations; how they were used at new engine terminal at Sharpsburg, Pa. il diag Eng & Contr (G C) 63:831-2 Ap 17 '25
Engine terminal operation a difficult job. E. Gelzer. diags Ry Mech Eng 98:103-5 F '24
England's first reinforced concrete enginehouse. D. R. Lamb. il plans Ry Age 76:337-40 F 2 '24
Fireless steaming system at engine terminals. L. G. Plant. Ry R 76:1205-7 Je 27 '25; Same. Ry Age 79:146-7 Jl 18 '25
General organisation of running sheds. Engineer 139:260-2 Mr 6 '25
Locomotive sheds; report to the International railway congress. Engineer 139:676; 140:15 Je 19, Jl 3 '25; Engineering 120:40-1 Jl 10 '25
New engine terminal at Peach Creek, W.Va. il diags plans Ry R 74:279-86 F 16 '24
New engine terminal of the New York Central railroad at Selkirk, N.Y. il diags plans Ry R 76:426-42 Mr 7 '25
Notable engine terminal, Acca, Virginia. il diags plans Ry R 74:399-412 Mr 8 '24
Portland terminal facilities are modernized. il plan Ry Age 77:879-84 N 15 '24
Pre-cast concrete used in engine terminal. il diag Ry Age 77:1025-7 D 6 '24
Shop and terminal construction in 1923. Ry Mech Eng 98:107-9 F '24
Southern Pacific lines extending repair facilities. il diags plans Ry R 74:881-4 My 17 '24
Southern railway will build locomotive terminal at Spencer, N. C. Ry R 74:466 Mr 8 '24
Using concrete mattresses for foundations at new Sharpsburg engine terminal near Pittsburgh. il plans Ry Age 77:229-33 Ag 9 '24
Well equipped engine terminal on the R.F. & P. il diags plan Ry Mech Eng 98:235-40 Ap '24

See also Locomotive shops; Roundhouses

LOCOMOTIVE tires. See Tires, Locomotive

LOCOMOTIVE works
Ateliers de construction du Nord de la France à Blanc-Misseron. R. Jouassain. Soc Ing Civils Bul 77:645-50, pl 83 O '24
Compagnie de Fives-Lille. R. Jouassain. Soc Ing Civils Bul 77:617-22, pl 81 O '24
Lokomotivwerkstätten der Linke-Hofmann-Lauchhammer aktiengesellschaft in Breslau. K. Bernhard. il diags Zeit Ver Deutsch Ing 68:889-95, 1053-8 Ag 30, O 4 '24
Powdered coal for locomotive shop. C: Longenecker. il diags Iron Age 113:565-9 F 21 '24
Powdered-coal installation at the Baldwin locomotive works. C. C. Bailey. diags Mech Eng 47:932-3 N '25

See also Locomotive shops

LOCOMOTIVES
Ancient locomotive still in service. il Locomotive 35:242-3 O '25
B. & O. builds mountain type passenger locomotive. Ry R 77:8-9 Jl 4 '25
Baldwin locomotive works delivers new engine for Newburg & South Shore railroad. Ry R 77:340-1 S 5 '25
Book of the locomotive. G. G. Jackson. 244p Longmans '24
British locomotives of 1923. il (supp) Engineer 137:6-7 Ja 4 '24
British railway acquires Garratt six cylinder locomotive. il Ry Age 79:809-10 O 31 '25
Broad gage locomotives for India. E. C. Poultney. il diag Ry Mech Eng 99:142-4 Mr '25
Le chargement mécanique des foyers de locomotives. E: Sauvage. Génie Civil 85:484-5 N 22 '24
Cheap power on railways. C: R. King. Engineer 138:444 O 17 '24
Compound locomotives in use in Europe. C: R. King. Ry Age 76:1075-6 My 3 '24
Compound vs. simple locomotives in France. M. Vallantine. Ry Age 76:461 F 23 '24
Consolidation type locomotive for Lehigh & Hudson River. Ry Age 79:439-40 S 5 '25; Same. Ry R 77:339-40 S 5 '25
Die dampflokomotive in entwicklungsgeschichtlicher darstellung ihres gesamtaufbaues. J: Jahn. 356p J. Springer, Berlin '24
D. & H. christens new locomotive. il Ry Age 77:1071-2 D 13 '24
Delaware & Hudson co. two-cylinder compound locomotive with high-pressure boiler. L. F. Loree. il Ry R 75:939-42 D 13 '24
Delaware and Hudson high-pressure compound 2-8-0 type locomotive. Engineering 119:381-2, pl 26-7 Mr 27 '25
D. & H. super-locomotive. il Sci Am 132: 193+ Mr '25

LOCOMOTIVES—*Continued*
Designing locomotives for service requirements. J. Partington. il Ry R 74:167-9 Ja 26 '24
Detroit Toledo & Ironton R.R. switch engines. il Ry R 76:535 Mr 14 '25; Ry Mech Eng 99:212-13 Ap '25
Developments in locomotive construction. W. W. Baxter. il diags Ry R 76:1056-61 Je 13 '25
E + 1 Z-zahnrad- und adhäsions- heissdampflokomotive. diag Zeit Ver Deutsch Ing 69: 352-3 Mr 14 '25
Fireless locomotives. diag Mech Eng 47:50 Ja '25
Flexibility of the three-cylinder principle demonstrated by application in 1924. il Ry R 76:297-9 F 14 '25
Flexible locomotives on narrow-gage lines. Eng N 92:290 F 14 '24
Four-cylinder 4-6-0 type locomotive; Great Western railway. il diag Engineering 116: 236, 742, 743, pl 42 Ag 24, D 14 '23; Engineer 136:197, 202 Ag 24 '23
Garratt locomotive for the London and North eastern railway. Engineering 120:12-14 pl 1-3 Jl 3 '25; Engineer 139:715-17 Je 26 '25; Mech Eng 47:756 S '25
Garratt locomotive in India and South Africa. il diags plan Ry R 74:447-9 Mr 8 '24
Garratt locomotives for South African railways. Engineer 139:498 My 1 '25
Geared shunting locomotive. il diags Engineer 139:432-4, 436 Ap 17 '25
Giant locomotives—steam and electric. il Sci Am 133:260+ O '25
Great Northern acquires Mallet locomotives. il Ry Age 79:359-61 Ag 22 '25; Same. Ry Mech Eng 99:544-7 S '25
Heavy six-wheel switch engine for the Union railroad. il Ry Mech Eng 98:275-6 My '24
Heavy 2-10-2 type locomotives for B. & O. il diags Ry Mech Eng 98:73-6 F '24; Same. Ry Age 76:413-14 F 16 '24; Same cond. Ry R 73:889-90 D 22 '23
Improved tank locomotives for the Queensland state railways. il Ry Age 77:508 S 20 '24
Is the steam horse to pass away? A. G. Ingalls. il diags Sci Am 132:88-9 F '25
Lehigh Valley three-cylinder locomotive. J. G. Blunt. Ry R 74:1125 Je 14 '24
Lima builds 2-8-4 type locomotive. il diags Ry Age 78:1077-82 My 2 '25; Same. Ry Mech Eng 99:266-73 My '25
Lima 2-8-4 type; epoch making advance in locomotive design. il diags Ry R 76:799-810 My 2 '25
La locomotive à trois cylindres. M. Demoulin, diags Génie Civil 85:444-6 N 15 '24
Locomotive crankpins—wear and mounting pressure. C. H. Franklin. Am Mach 60:936 Je 19 '24
Locomotive Magnet as reconstructed; an old Stockton and Darlington railway locomotive. il Engineer 139:440 Ap 17 '25
Locomotive no. 28, Liverpool and Manchester railway. C. F. D. Marshall. il Engineer 138: 20-1 Jl 4 '24
Locomotive of the future. Sci Am 130:384 Je '24
Locomotives of improved design increase ton miles and lower operating cost. Ry R 76: 270-1 F 7 '25
Locomotives of 1924. il (supp) diags Engineer 139:9-14 Ja 2 '25
London, Midland and Scottish railway—new eight-coupled tank engine. il diag Engineer 136:476 N 2 '23; Engineering 116:570 N 2 '23
Maine Central purchases ten-wheel locomotives. il Ry Age 76:555-6 Mr 8 '24
Mikado locomotives for the Lehigh Valley. il Ry Age 75:959-60 N 24 '23
Mikado type locomotives for Central of New Jersey. [il p. 1061] Ry R 76:1065 Je 13 '25
Modified Fairlie locomotive. il Mech Eng 47: 757 S '25
Motive power exhibit by the Pennsylvania railroad. il Ry R 74:264-5 F 9 '24
Mountain type locomotive for Canadian National. il diags Ry Age 79:316-18 Ag 15 '25
Mountain type locomotive for Great Northern. il Ry Age 75:1065-6 D 8 '23
Mountain type locomotive for Illinois Central R.R. il Ry R 76:990-1 My 30 '25
Mountain type passenger locomotives for Grand Trunk Western. il Ry R 77:56-7 Jl 11 '25
Naming the new locomotive types. Ry Age 79: 259 Ag 8 '25
Narrow-gauge express locomotive. il Engineer 140:70 Jl 17 '25
New era for steam locomotives. il Ry Age 78:279-83 Ja 24 '25
New locomotives for G.S. & W. Ry. of Ireland. W. W. Baxter. il diags Ry R 77:17-19 Jl 4 '25
Operating problems of the railroads. L. G. Coleman. Am Inst E E J 43:651-3; Discussion. 655-9 Jl '24
Pacific type passenger locomotive for Reading co. [il p. 1065] Ry R 76:1061 Je 13 '25
Pennsylvania builds eight-wheel switching locomotive. il diag Ry Age 79:195-6 Jl 25 '25
Powerful six-wheel switcher for the Monon. il chart Ry Mech Eng 98:660-1 N '24
Reading consolidation type locomotive. il Ry Age 77:19-20 Jl 5 '24
Recent developments in the three-cylinder locomotive. Ry R 75:737 N 8 '24
Recent types of improved power for yard service. il Ry R 75:396-401 S 13 '24
Santa Fe type locomotive converted to 4-8-2. il diags Ry Age 79:239-40 Ag 1 '25
Santa Fe type locomotives for Baltimore & Ohio. il diags Ry R 76:108-11 Ja 10 '25
Santa Fe type locomotives for the Canadian National. C. E. Brooks. il Ry Age 77:793-4 N 1 '24
Science of locomotive management. G: H: Baker. 144p Walther press, New York '24
Some notable locomotives of recent design. J. Partington. il Ry Age 76:193-5 Ja 12 '24
Southern Rly.—express locomotive. il diag Engineer 140:329 S 25 '25
Speculations on locomotive efficiency. T: E. Stuart. Ry Mech Eng 98:720 D '24
Steam locomotive of unusual design christened and placed in service at Colonie, N.Y. Ry R 75:911-12 D 6 '24
Sudan government railways; "prairie" type locomotives. il diags (supp) Engineer 140: 246-7 S 4 '25
Summary of equipment purchases during 1924. Ry R 76:91-3 Ja 3 '25
Tendencies in equipment design. il Ry Age 78:40-3 Ja 3 '25
Three-cylinder 4-10-2 locomotives for the S. P. and U. P. il diags Ry Age 79:268-71 Ag 8 '25; Same. Ry Mech Eng 99:557-60 S '25
Three-cylinder locomotives on American railroads. il Ry Age 78:1197-1202 My 16 '25
Too many defective locomotives. Ry Age 78: 216 Ja 17 '25
Turning the wheels of the railroad: steam locomotives. il Sci Am 131:244 O '24
Two light Mikado locomotives built at Lima. il Ry Age 76:505-6 Mr 1 '24
Two remarkable locomotives. E. C. Poultney. il Engineer 140:370-1, 378, 439-41 O 9, 23 '25
2-10-2 type replace Mallets on Great Northern. Ry Age 76:459 F 23 '24
Über die gestaltung der einzelteile von dampflokomotiven. K. Ewald. il Zeit Ver Deutsch Ing 68:285-7 Mr 22 '24

See also Electric locomotives; Locomotive boilers; and other headings beginning Locomotive; Motor cars (railroad); Railroads—Rolling stock; Roundhouses; Steam engines; Stokers, Mechanical; Tractors

Axles

Appareils pour rectifier les fusées, tourillons et contre-manivelles des essieux de locomotives. M. Montillier. diags Génie Civil 84: 279-80 Mr 22 '24
Bored pins and axles for locomotives. L. H. Fry. Ry Mech Eng 98:667-8 N '24

LOCOMOTIVES—Axles—*Continued*

Machine for locating eccentrics on axles. L. V. Mallory. diags Ry Mech Eng 98:696-7 N '24

Solid crank axles. H: Fowler. diags Engineer 138:650-1 D 5 '24

Suggested basis of proportions for driving axle keys. H. J. Coventry. Ry Mech Eng 97: 801-2 D '23

Bearings

Casting railroad bearings. G. H. Clamer. il chart Foundry 53:791-4, 829-32, 886-90 O 1-N 1 '25

Boosters

Bethlehem auxiliary locomotive. il Ry Age 79:320 Ag 15 '25

Booster inspection and maintenance. il diag Ry Mech Eng 99:290-2 My '25

Locomotive booster. T. P. Whelan. Ry R 76: 817-18 My 2 '25

Locomotive boosters—effect on design and train operations. Ry Age 77:553-4 S 27 '24; Same. Ry Mech Eng 98:590-1 O '24

Performance tests of the locomotive booster. M. H. Roberts. Ry R 74:765-9 Ap 26 '24; Abstract. Mech Eng 46:357 Je '24

See also Locomotives—Starting

Cleaning

Engine washing platform. diags Ry Age 77: 650 O 11 '24; Eng & Contr (Ry) 62:1128 N 19 '24

Laundering locomotive air pumps in one hour. F. H. Colvin. il Am Mach 62:815-18 My 21 '25

Mechanical means for cleaning locomotive flues. C. B. Smith. Ry Mech Eng 99:461-2 Jl '25

Condensing equipment

Die kolbendampfmaschinen-lokomotive mit kondensation. K. Pfaff. diags Zeit Ver Deutsch Ing 68:997-1003 S 20 '24

Paris-Orleans condensing locomotive. H. Leflot. il diags Ry Mech Eng 98:211-12 Ap '24

Cost of operation

Classified knowledge of enginehouse expense. L. K. Sillcox. Ry Age 77:143-4 Jl 26 '24

Comparison of operating and maintenance costs of electric and steam locomotives of the Swiss federal railways for 1920-1922. Engineer 137:685 Je 20 '24

Locomotive day—in dollars and cents. R: Lawrence. Ry Age 76:1769-71 Je 21 '24

Crossheads

Babbitting crossheads to finish dimensions. F. H. Colvin. il diags Am Mach 59:803-6 N 29 '23

Crossheads on the New York Central; practice of the West Albany shops. il Am Mach 61:348 Ag 28 '24

Improvements in the Rogatchoff adjustable crosshead. il diags Ry Mech Eng 98:186 Mr '24

Jig for babbitting locomotive crossheads. C. G. Williams. diags Am Mach 63:241 Ag 6 '25

Locomotive crosshead puller. E. A. Miller. diags Ry Mech Eng 98:697 N '24

Machining crossheads on a turret lathe. O. L. Kampschaefer. diags Am Mach 61:1008 D 25 '24

Rogatchoff adjustable crosshead gives long service. il Ry Age 76:1412 Je 11 '24; Ry R 75:257-8 Ag 16 '24

Tramming crossheads on running repairs. C. H. French. diags Am Mach 61:764 N 13 '24

Cut-off

Automatic cut-off control tested in service. il Ry Age 76:1033-7 Ap 26 '24; Same. Ry Mech Eng 98:267-72 My '24

Back pressure as an index to fuel economy. R. W. Retterer. Ry R 76:1138-45 Je 20 '25

Fifty per cent. cut-off locomotives; Pennsylvania railroad system. E. C. Poultney. il diags Engineer 139:509-11, 550-1 My 8-15 '25

Derailment

Derailments of locomotives on curves. R. C. Beaver and M. B. Richardson. diags Ry Mech Eng 98:721-5; 99:16-20 D '24-Ja '25; Discussion. 99:138-9, 200-1 Mr-Ap '25

Design

A. R. A. report on locomotive design and construction. Ry Age 76:1443-7 Je 12 '24

A.R.A. report on locomotive design and construction. Ry Age 78:1551-6 Je 20 '25; Ry R 77:14-16 Jl 4 '25; Ry Mech Eng 99:418-27 Jl '25

Boston & Albany tests a 2-8-4 type locomotive. W. W. Baxter. il charts diags Ry R 77:373-82 S 12 '25

Buenos Aires Great Southern locomotive. il diag Engineer 138:94-5 Jl 25 '24

Canadian National Mikado type locomotive. C. E. Brooks. il diags Ry Mech Eng 98:6-9 Ja '24

Canadian Pacific standard 4-6-2 locomotive. il diags Ry Mech Eng 97:803-8 D '23; Same, without diags. Ry Age 75:1107-8 D 15 '23

Central of Georgia Ry. mountain type passenger locomotives. il plans Ry R 75:457-60 S 27 '24

Chesapeake & Ohio Mikado type locomotive. W. W. Baxter. il diags Ry R 77:83-6 Jl 18 '25

Chesapeake & Ohio 2-8-8-2 simple Mallet. il diags Ry Mech Eng 98:206-11 Ap '24; Ry R 74:631-40 Ap 5 '24; Ry Age 76:927-9 Ap 12 '24; Engineering 118:795-8, 860-1, pl 81 D 12, 26 '24

Chicago & Eastern Illinois Ry. 4-6-2 type locomotives. il diags Ry R 75:197-200 Ag 9 '24

C.I. & W.R.R. Pacific type passenger locomotives. il diags Ry R 76:599-603 Mr 28 '25

Decapod type locomotive for G.M. & N.R.R. il diags Ry R 74:317-19 F 23 '24

D. & H. high pressure locomotive. il diags Ry Age 78:353-7 F 7 '25; Same. Ry Mech Eng 99:78-86 F '25; Abstract. Mech Eng 47:298 Ap '25

Denver & Rio Grande Western R.R. 2-8-2 type narrow gauge locomotive. il diags Ry R 76:179-84 Ja 24 '25

Design of the steam locomotive. J. G. Blunt. Ry Mech Eng 99:86-8 F '25; Same cond. Ry R 75:994-5 D 20 '24

Effecting economy through careful design. H. Y. Carpenter. il Ry Mech Eng 98:532-3 S '24

1 E-grossgüterzuglokomotiven der österreichischen bundesbahnen. J. Rihosek. il diags Zeit Ver Deutsch Ing 68:225-32 Mr 8 '24

Fifty per cent. cut-off locomotives; Pennsylvania railroad system. E. C. Poultney. il diags Engineer 139:509-11, 550-1 My 8-15 '25

Fundamental factors in fuel conservation. G. M. Basford. Ry R 76:1211-13 Je 27 '25

Garratt locomotive for the London and North Eastern railway. il diags Engineering 120: 12-14, pl 1-3 Jl 3 '25

Heavy 4-8-0 type superheater locomotive at the British Empire exhibition. il diags Engineering 118:280-4 Ag 29 '24

Hungarian Mallet with Brotan type boiler. il diags plan Ry Age 77:407-10 S 6 '24; Same. Ry Mech Eng 98:583-6 O '24

Individualism in locomotive design. J. G. H. Warren. diags Engineer 138:717-19 D 26 '24; Discussion. C. G. Howsin. 139:55 Ja 9 '25

Lima builds 2-8-4 type locomotive. il diags Ry Age 78:1077-82 My 2 '25; Same. Ry Mech Eng 99:266-73 My '25

Lima 2-8-4 type; epoch making advance in locomotive design. il diags Ry R 76:799-810 My 2 '25

Locomotive development as shown in the Palace of engineering at the British Empire exhibition. J. H. Brittain. il diags Engineer 137:528-31 My 16 '24

Locomotive testing plant and its influence on steam-locomotive design. L. H. Fry. Mech Eng 47:881-6 N '25; Same cond. Ry Age 79:752-5 O 24 '25

LOCOMOTIVES—Design—*Continued*
Locomotives at the British Empire exhibition. il diags Engineering 117:665-8, 672 My 23 '24
Les locomotives ten-wheel compound, quatre cylindres à surchauffe, des Chemins de fer de l'État belge. diags Génie Civil 83:626 D 22 '23
London, Midland and Scottish railway—four-cylinder tank locomotive. il diags Engineer 138:582-4 N 21 '24
Long locomotive runs on the Norfolk & Western Ry. A. C. Needles. il chart diags plan Ry R 74:203-7 F 2 '24
Mallet compound locomotive for North Western (state) railway of India. il diags Ry R 75:821-4 N 22 '24
Mikado type locomotive, Canadian National Rys. il diags Ry R 74:12-16 Ja 5 '24; Same cond. Ry Age 76:281-2 Ja 26 '24
Mikado type locomotive, Elgin Joliet & Eastern Ry. il diags Ry R 75:317-20 Ag 30 '24
Mikado type locomotive for Wabash railway. W. A. Pownall. il diags Ry R 76:1043-4, 1089-95 Je 13 '25
Missouri Pacific three cylinder locomotive tests. W. W. Baxter. il charts diags Ry R 77:151-8+ Ag 1 '25
Motive power of the Carolina, Clinchfield & Ohio Ry. il diags Ry R 74:1005-17 Je 7 '24
Narrow-gauge Mallet locomotives for Burma. il diags Engineer 138:138-9 Ag 1 '24
Neue wege im lokomotivbau. F. Meineke. diags Zeit Ver Deutsch Ing 68:937-42 S 13 '24; Abstract (Recent developments in locomotive design in Germany). Mech Eng 46:906-7 D '24
Neuere lokomotiven der deutschen reichsbahn. F. Meineke. il diags Zeit Ver Deutsch Ing 68:273-6 Mr 22 '24
New era in locomotive design. C: W. Foss. Annalist 26:343+ S 18 '25
New locomotives for Bombay, Baroda & Central India railways. il diags Ry R 76:689-92 Ap 11 '25
New Mikado type locomotives for the Wabash R.R. il diags Ry R 74:593-9 Mr 29 '24
New 0-8-0 heavy switch engines for Wabash Ry. il diags Ry R 74:833-8 My 10 '24
New Santa Fe locomotives for the C. N. C. E. Brooks. il diags Ry Mech Eng 98:733-5 D '24
Pacific and Mikado type locomotives for Canadian Pacific Ry. il diags Ry R 75:690-7 N 8 '24
Pennsylvania ten-wheel passenger locomotive. il diags Ry Mech Eng 98:16-18 Ja '24
Performance of Lehigh Valley 3-cylinder locomotive no. 5000. il diags Ry R 74:1079-93 Je 14 '24; Abstracts. Ry Age 76:1585-7 Je 14 '24; Mech Eng 46:493 Ag '24
Performance of three-cylinder locomotive on test track. il diags Ry R 75:611-15 O 25 '24
Railway material at the British Empire exhibition. il diags Engineering 117:535-41, pl 40-2 Ap 25 '24
Reading company consolidation locomotives. il diags Ry R 75:43-6 Jl 12 '24; Ry Mech Eng 98:581-3 O '24
Recent types of freight and passenger locomotives for Canadian National railways. il diags Ry R 75:744-56 N 8 '24
Relation of locomotive design to maintenance. C: Raitt. Ry Mech Eng 98:410-11 Jl '24
Relation of track stress to locomotive design. C. T. Ripley. il diags Ry Age 76:1547-53 Je 14 '24; Abstract. Eng N 93:336 Ag 28 '24; Discussion. Ry Age 76:1553-8 Je 14 '24
Simple articulated locomotives for G. N. Ry. W. W. Baxter. il diags Ry R 77:629-34 O 24 '25
Southern Pacific 4-8-2 type locomotives. il diags Ry Mech Eng 98:141-6 Mr '24; Same. Ry R 74:250-6 F 9 '24; Same cond. Ry Age 76:375-7 F 9 '24
Steam pipe and smoke box arrangement on some modern locomotives. W. H. Winterrowd. il diags Ry R 76:757-65 Ap 25 '25
Three-cylinder locomotive for the Missouri Pacific. il diags Ry Age 78:1164-8 My 9 '25
Three-cylinder Mikado for the South Manchurian. il diags Ry Mech Eng 98:656-9 N '24; Excerpt. Ry Age 77:733-4 O 25 '24
2D 1-heissdampf-vierzylinder-verbund-schnellzuglokomotive der Spanischen Nordbahn. A. Wolff. il diags Zeit Ver Deutsch Ing 69:1077-82, 1271-6, pl 7 Ag 15, O 3 '25

Dictionaries
Locomotive cyclopedia of American practice. R. V. Wright, ed. 7th ed. 1131p Simmons-Boardman '25

Draft
Blower for drafting locomotives in engine-house. il diag Ry Mech Eng 99:388-9 Je '25
Mechanical draft. Ry Age 76:1513-15 Je 14 '24
Report to the convention of the International railway fuel association on front-ends, grates and ashpans. E: C. Schmidt. diags Ry R 74:999-1004 Je 7 '24
T.E.A. committee reports. Ry R 77:409-11 S 19 '25

Driving box shoes
Driving box shoe planing device. J. D. Snyder. diags Ry Mech Eng 98:488-9 Ag '24
Preventing shoes and wedges from breaking in service. diags Ry Mech Eng 98:761 D '24
Something about shoe and wedge work. F. A. Stanley. il diags Am Mach 62:957-9 Je 18 '25
Tools for planing driving box shoes and wedges. E. A. Murray. il Ry Mech Eng 99: 293 My '25

Driving boxes
American locomotive company's methods of machining driving boxes. L. C. Morrow. il Am Mach 61:715-17 N 6 '24
Bronzing driving boxes. Ry Mech Eng 99:260 My '25
Casting crown brasses and hub plates in place. F. H. Colvin. il Am Mach 59:479-80 S 27 '23; Discussion. 59:729-31; 60:60, 143-4, 176, 234, 328 N 15 '23, Ja 10, 24-31, F 14, 28 '24
Discussion of loose crown brasses. F. M. A'Hearn. Ry Mech Eng 98:202 Ap '24
Driving box calipers for use in limited spaces. L. V. Mallory. diags Ry Mech Eng 99:724 N '25
Driving box oil grooving device. diag Ry Mech Eng 99:302 My '25
Driving-box practice on the Western Maryland. S. A. Hand. Am Mach 63:605-7 O 15 '25
Driving box work, N. & W. Ry. shops, Roanoke, Va. E. C. Gaines. il Ry R 75:15-17 Jl 5 '24
Franklin driving box. il Ry Age 76:1616-17 Je 16 '24
Handling driving box work. J. H. Hahn. il diags Ry Mech Eng 98:549-52 S '24
Holding and machining driving boxes. H. F. Crawford. il Am Mach 63:513 S 24 '25
How driving-box practice varies. F. C. Hudson. diags Am Mach 63:697-9 O 29 '25
Locomotive bronze crown bearings. il Ry Age 78:1481-2 Je 13 '25
Machining driving boxes, shoes and wedges. il diags Ry R 74:1029-39 Je 7 '24
One piece crown brasses eliminate waste. M. F. Cox. il diag Ry Mech Eng 98:693 N '24
Pneumatic press for driving box shells. E. A. Miller. diags Ry Mech Eng 99:519-20 Ag '25
Reducing the time of handling driving boxes. E. Marx. diags Ry Mech Eng 98:685-8 N '24
Repairing driving boxes in the average size shop. H. H. Henson. il Ry Mech Eng 99: 236-7 Ap '25
Replacement driving boxes on the New York Central. L. C. Morrow. il diags Am Mach 61:309-12 Ag 21 '24
Something about shoe and wedge work. F. A. Stanley. il diags Am Mach 62:957-9 Je 18 '25
Treating hot driving boxes on modern power. J. E. Allen. diags Ry Mech Eng 99:607 O '25

LOCOMOTIVES—*Continued*

Equipment and supplies

A.R.A. report on removable hand rail columns. diags Ry R 76:1185 Je 20 '25
Fieux clutch for locomotives. il diags Engineering 119:760-1 Je 19 '25

See also Feed water heaters; Injectors; Locomotive boilers; Locomotive fireboxes; Locomotive grates; Locomotive headlights; Locomotives—Boosters; Locomotives—Gearing; Locomotives—Superheaters; Stokers, Mechanical

Erection

See Locomotives—Manufacture

Failures

Annual report of Bureau of locomotive inspection. A. G. Pack. Ry R 75:952-5 D 13 '24
Engine failure defined. Ry Age 78:1505, 1553 Je 20 '25; Ry R 76:1169 Je 20 '25

See also Locomotive boiler explosions

Frames

Frame repairing. P. T. Lavinder. Ry Mech Eng 99:578-9 S '25
Handling frame binders. F. McGough. il diags Am Mach 61:435 S 11 '24
Locomotive frame welding. A. F. Dillon. Am Mach 60:396 Mr 13 '24
Notable economies in forging locomotive frames. il Ry R 73:687-9 N 10 '23
Welding locomotive frames with bronze. J. H. Chancey. il Ry Mech Eng 99:235 Ap '25

Front ends

Exhaust nozzle and front end adjustment. D. L. Derrom. il Ry Mech Eng 98:362-5 Je '24
Unique front end arrangement on powerful M.-K.-T. switcher. il Ry Age 78:981-3 Ap 18 '25

Fuel

A.R.E.A. committee report on facilities for fuel oil for locomotives. diags Ry R 76: 499-504 Mr 14 '25
Back pressure as an index to fuel economy. R. W. Retterer. Ry R 76:1138-45 Je 20 '25
Burning of fuel oil in railroad locomotives. J. M. Johnston. Am Pet Inst Bul 4:61-6 D 31 '23; Same abr. Nat Pet N 15:23-4+ D 12 '23
Consumption of fuel oil by locomotives. Am Pet Inst Bul v 5:3-4 Mr 13 '24
Controlling use of locomotive coal. Ry Age 78:413-14 F 14 '25; Same. Ry Mech Eng 99:144-6 Mr '25
Cost of traction; fuel and its combustion; report to the International railway congress. Engineer 139:647 Je 12 '25; Engineering 119:806-7 Je 26 '25; Ry Age 79:86 Jl 11 '25; Ry R 77:352-3 S 5 '25
Covering grates with paper an aid in fuel conservation. J. L. Marley. Ry R 75:615-16 O 25 '24
Decapod tests show well defined fuel economy. il Ry Mech Eng 98:662-6 N '24; Same. Ry Age 77:635-9 O 11 '24
Facilities for fuel oil for locomotives. diags Ry R 74:602-8 Mr 29 '24
Firing a locomotive with milk. il Sci Am 131: 259 O '24
First move to co-ordinate study of fuel economy; joint meeting of the A. R. A. committee on fuel conservation and a committee of the International railway fuel association. Ry R 74:94-5 Ja 5 '24
Fuel consumption and grade revision. F. A. Russell. Ry Age 78:519-23 F 28 '25
Fuel economy. T. H. Kelly. Ry R 74:372-3 Mr 1 '24
Fuel for road locomotives; I.C.C. statistics. Ry Age 78:928 Ap 11 '25
Fuel losses at locomotive terminals. W. A. Kline. Ry Mech Eng 98:413 Jl '24
Fuel oils. J. B. Rathbun. Pet Age 14:61+ Jl 15; 61+ Ag 1 '24; 15:57+ Ja 1 '25
Fundamental factors in fuel conservation. G. M. Basford. Ry R 76:1211-13 Je 27 '25; Same cond. Ry Age 78:1387-9 Je 6 '25; Same. Ry Mech Eng 99:454-6 Jl '25
How can a mechanical officer effect fuel economy? J. Purcell. Ry Age 78:1389-90 Je 6 '25; Same. Ry Mech Eng 99:456-7 Jl '25; Same abr. Ry R 76:1010-11 Je 6 '25
How can the management effect fuel economy? A. R. Ayers. Ry Age 78:1347-9 My 30 '25; Same. Ry R 76:1008-10 Je 6 '25
How to improve oil burning on locomotives. J. N. Clark. Ry R 75:1025-7 D 27 '24; Same cond. Ry Age 77:555-8 S 27 '24; Same cond. Ry Mech Eng 98:592-4 O '24
Locomotive development as a means of fuel economy; abstracts. L. F. Loree. Ry R 76: 1007-8 Je 6 '25; Ry Mech Eng 99:373-4 Je '25; Ry Age 78:1345-7 My 30 '25
Locomotive fuel must be conserved. C: J. Scudder. Ry Age 78:1443-4 Je 13 '25
Oil and coal as locomotive fuels. M. C. M. Hatch. Ry Age 76:1515 Je 14 '24; Same. Ry Mech Eng 98:473 Ag '24
Oil burning improvement on locomotives. Ry Mech Eng 98:592-4 O '24; Same cond. Ry Age 77:555-8 S 27 '24
Preparing coal for locomotive fuel. M. McFarlane. Ry R 75:24-7 Jl 5 '24; Same cond. Ry Age 76:1827-8 Je 28 '24
Proper distribution of locomotive fuel. C. N. Beyerly. Ry Age 76:1366-7 Je 7 '24
Responsibility of division superintendent in fuel conservation. D. F. Stevens. Ry R 74: 1145-8 Je 14 '24; Same. Ry Age 76:1377-8; Discussion. 1378 Je 7 '24
Signals and the saving of fuel; abstracts. B. J. Schwendt. il Ry Age 78:1319-20 My 30 '25; Ry R 76:1081-4 Je 13 '25
Some aspects of the problem of fuel economy. R. H. Aishton. Ry R 74:963-5 My 31 '24; Same. Ry Age 76:1319-20 My 31 '24; Same abr. Ry Mech Eng 98:411-13 Jl '24
Suggestions on locomotive fuel economy. D: L. Franciscus. diags Ry R 74:286-8 F 16 '24
Various methods for determining fuel performance. diags Ry R 77:10-13 Jl 4 '25
Ways in which operating men can help to save fuel. Ry Age 78:1645-6 Je 27 '25

See also Locomotives, Gas and oil; Oil bunkering stations

Geared type

Shay geared-type locomotives in special transfer service. il Ry Age 77:108-9 Jl 19 '24

Gearing

Lentz variable hydraulic transmission gear. il diags Engineering 119:350-1, 354 Mr 20 '25
Schneider hydro-mechanical transmission gear. il diags Engineer 140:86-8, 90 Jl 24 '25; Ry Mech Eng 99:468-71 Jl '25

History

Aus der geschichte der eisenbahn Stockton-Darlington (27. September 1825 bis 1863). Geisler. il diags Zeit Ver Deutsch Ing 69: 1238-42 S 26 '25
British centenary celebration. S: O. Dunn. il Ry Age 79:183-6 Jl 25 '25
British steam railway locomotive from 1825 to 1924. E. L. Ahrons. il diags Engineer 139:2-4, 34-7, 66-8, 94-6, 124-6, 150-2, 178-81, 206-8, 232-3, 258-60, 288-90, 316-18, 344-6, 370-2, 398-400, 424-6, 452-4, 478-81, 506-7, 534-6, 562-4, 590-2, 616-18, 642-4, 670-2, 698-701; 140:2-4, 28-9, 54-6, 80-2, 104-7, 132-3, 156-7, 180-1, 206-7, 232-3, 258-60, 284-6, 312-14, 338-9, 366-8, 394-5, 422, 452-3, 480-1, 508-10, 538-40, 570-1, 598-600, 628-9 Ja 2-D 11 '25; Discussion. 139:704; 140:36, 123, 198-9; 140:400, 429, 469-70; 141:9, 42 Je 26, Jl 10, 31, Ag 21, O 16-30 '25, Ja 1-8 '26
Celebrate centenary of first steam railway in England. Am Mach 63:214a Jl 30 '25
Le centenaire des chemins de fer à vapeur en Angleterre. il diags Génie Civil 87:101-4 Ag 1 '25
Centenary of the locomotive. V. Raven. Engineer 140:40-1 Jl 10 '25; Same. Engineering 120:51-2 Jl 10 '25
Century of locomotive building by Robert Stephenson & co., 1823-1923. J. G. H. Warren. 461p A. Reid & co., Newcastle upon Tyne, England '23

LOCOMOTIVES—History—*Continued*
Le développement des chemins de fer et l'évolution de la locomotive à grande vitesse. M. Demoulin. diags Génie Civil 84:60-4, 85-9 Ja 19-26 '24
Early history of the locomotive. Ry R 74:1028-9 Je 7 '24
How England celebrated 100 years of railroading. H. A. Smith. il Ry R 77:115-20 Jl 25 '25
Links in the history of the locomotive. E. A. Forward. diag Engineer 136:638-9, 661-3 D 14-21 '23
Mighty contrast with 1825. Ry R 77:207 Ag 8 '25
Pioneer locomotives of the Pacific coast. T. Young. il Ry R 77:485-7 S 26 '25
Quarter century of the steam locomotive. W. A. Austin. il Ry R 74:107-14 Ja 12 '24
Railway centenary. il diags Engineering 119: 783-96, pl 49-56; 120:41-2 Je 26, Jl 10 '25; Engineer 140:42-3 Jl 10 '25
Summary of developments in locomotive building. W. W. Baxter. il Ry R 77:459-69 S 26 '25
Timothy Hackworth and the locomotive. R. Young. 406p Spon '23

Hours of service

Utilization of motive power; comparison of steam locomotives, buses, elevated cars and taxicabs. R: Lawrence. il Ry Age 79: 319-20 Ag 15 '25

Inspection

Bill to increase locomotive inspection force reported. Ry Age 76:974 Ap 19 '24
Brotherhood representatives reply to Indianapolis protest. Ry Age 76:936-7 Ap 12 '24
Public affected by locomotive inspection; Indianapolis commerce chamber condemns action of federal inspectors on Pennsylvania in January. Ry Age 76:799-800 Mr 22 '24
Systematic terminal inspection of locomotives. C: Raitt. Ry Mech Eng 99:139 Mr '25

See also Interstate commerce commission —Bureau of locomotive inspection

Lubrication

Alemite lubricating system for rods. diags Ry Age 76:986 Ap 19 '24; Same. Ry Mech Eng 98:247 Ap '24
Alternate valve and cylinder lubrication for locomotives. diag Ry Age 78:1484-5 Je 13 '25
A.R.A. report on locomotive design and construction. Ry Age 78:1551-2 Je 20 '25; Ry Mech Eng 99:418-19 Jl '25; Ry R 76:1207-8 Je 27 '25
Appliances for lubricating locomotives. Ry Mech Eng 99:617-18 O '25
Axle-boxes and lubrication; report to the International railway congress. Engineer 139: 647-8 Je 12 '25; Engineering 119:807-8; 120: 7 Je 26-Jl 3 '25; Ry R 77:352-3 S 5 '25
Ehrhart decarbonizer for locomotives. il Ry Age 78:1474 Je 13 '25
Force feed lubrication on locomotives. A. H. Woodward. il diag Ry Mech Eng 98:151-2 Mr '24
Lubrication and its effect on locomotive service. Ry Age 77:558-61 S 27 '24
Lubrication of locomotives and cars. D. Wood. Ry Age 77:1129-30 D 20 '24
Manufacture of railroad engine greases. H. L. Kauffman. Ry Mech Eng 98:13-14 Ja '24
Pneumatic flange oiler for locomotives. il Ry Mech Eng 98:309-10 My '24
Pneumatic flange oilers on the Indiana Harbor Belt line. il Ry R 74:267 F 9 '24
T.E.A. committee reports. Ry R 77:411-13 S 19 '25

Manufacture

Building locomotives in France. V. Delport. il Iron Tr R 75:600-3 S 4 '24
Erecting locomotives on special forms. F. C. Hudson. il diags Am Mach 61:641-2 O 23 '24
Heavy turret lathe work; finishing locomotive power-reverse cylinders. C: O. Herb. il diags Mach 31:706-8 My '25
High-manganese steel for locomotives. E. F. Cone. il Iron Age 114:824-5 O 2 '24
I.C. builds 24 Mikados at Burnside shops. il Ry Mech Eng 98:111-15 F '24
Improved method of locomotive erection by the use of erecting forms; abstract. diag Mech Eng 46:489-90 Ag '24
Machining locomotive parts in the Frisco shops. H. Campbell. il Am Mach 59:749-52 N 22 '23
Making locomotive castings. H. E. Diller. il Foundry 52:53-60, 88-95, 137-42 Ja 15-F 15 '24
New York Central cylinders. L. C. Morrow. il Am Mach 61:493-4 S 25 '24
Rebuilding narrow-gage locomotives. H. Campbell. il Am Mach 61:141-3 Jl 24 '24
Recent practice on locomotive axles, crankpins and piston rods. diags Am Mach 63: 397-8 S 3 '25
Short histories of famous firms; Kitson & co., ltd. Airdale foundry, Leeds. il diag Engineer 136:548-50 N 23 '23
Steels used in locomotives; abstracts. L. H. Fry. Iron Age 114:1686-7+ D 25 '24; Ry Mech Eng 99:88-90 F '25; Ry R 76:515-18 Mr 14 '25

See also Locomotive works; Locomotives —Frames

Operation

Enginemen's manual. W: P: James. Rev. ed. 579p James pub. co., Louisville, Ky. '24
Fundamentals of fuel economy. W. L. Richards. il Ry Age 75:999-1003 D 1 '23; Same. Ry R 73:866-71 D 15 '23; Same cond. Ry Mech Eng 97:809-13 D '23
Less damage to freight by rough handling. C. F. Polzin. il Ry Age 75:1057-9 D 8 '23
M-K-T R.R. locomotives run 220 miles for water. il Ry R 75:52-4 Jl 12 '24
Principles of locomotive operation. A. J. Wood. 2d ed. 315p McGraw-Hill '25
Serviceability and economies of 100 per cent locomotives. C. A. Seley. Ry R 74:797-800 My 3 '24; Excerpts. Ry Age 76:1037-8 Ap 26 '24
Stoker fired locomotives and the future engineman. Ry Age 77:554-5 S 27 '24; Same. Ry Mech Eng 98:591-2 O '24

See also Locomotives—Runs

Painting

Possibilities of mechanical painting. J. W. Gibbons. il Ry Mech Eng 98:360-2 Je '24
Standards for painting cars and locomotives. Ry Mech Eng 98:272-4 My '24

Performance

Advantages of the 50-per-cent-cutoff locomotive. W. F. Kiesel, jr. diags Ry R 73:721-5 N 17 '23; Same cond. Ry Age 75:903-6 N 17 '23; Same cond. Ry Mech Eng 97:813-16 D '23
A.R.A. report on tractive power for Mallet locomotives. Ry R 74:1122-3 Je 14 '24
Daily program and performance of a locomotive. R. S. Parsons. Ry R 74:884-6 My 17 '24
Engineering and business considerations of the locomotive. W. H. Winterrowd. diags Ry R 74:1103-7 Je 14 '24
French locomotive performances. J. T. B. Alexander. Engineer 139:153-5 F 6 '25
Good results obtained with assigned power. E. Von Bergen. Ry Age 77:735-6 O 25 '24
Increasing the product of the freight locomotive. C. B. Fletcher. Ry R 76:613-15 Mr 28 '25
Die kolbendampfmaschinen-lokomotive mit kondensation. K. Pfaff. diags Zeit Ver Deutsch Ing 68:997-1003 S 20 '24
Lehigh Valley railroad three-cylinder locomotive. il diags Engineer 137:666-7 Je 13 '24
Locomotive resistance and tractive force. K. Asakura. chart Ry Mech Eng 98:523-7 S '24; Correction. 98:725 D '24
100,772 miles per engine failure on the Katy. Ry Age 79:448 S 5 '25
Performance of Lehigh Valley 3-cylinder locomotive no. 5000. il diags Ry R 74:1079-93 Je 14 '24

LOCOMOTIVES—Performance—*Continued*
Performance of Lima locomotive no. 8000. il Ry Age 78:373-4 F 7 '25
Preparation and use of velocity profiles. V. I. Smart. Ry R 74:209-15 F 2 '24
Report of A.R.A. committee on the utilization of locomotives. Ry R 76:1106-7 Je 13 '25
Some British locomotive performances. J. T. Burton-Alexander. Engineer 136:684-5 D 28 '23
Tests of 2-8-4 locomotive on B. & A. F. A. Butler. il Ry Age 79:467-71 S 12 '25; Same. Ry Mech Eng 99:621-5 O '25
Three-cylinder high-pressure locomotive. H. N. Gresley. Engineer 140:46, 58-9 Jl 10-17 '25; Same. Engineering 120:58-61, 86-8 Jl 10-17 '25; Discussion. Engineer 140:41, 545 Jl 10, N 20 '25; Engineering 120:52-3 Jl 10 '25
Useful life of American locomotives. L. H. Fry. il Engineering 116:609-11, 624 N 16 '23
Various methods for determining fuel performance. diags Ry R 77:10-13 Jl 4 '25

See also Locomotives—Boosters; Locomotives—Runs; Locomotives—Testing

Prices

Index of railway car and locomotive prices. Ry Age 77:277-8 Ag 16 '24
Locomotive prices in 1924. Ry Age 78:91 Ja 3 '25

Rack type

New rack locomotive. il diags Engineer 138: 55 Jl 11 '24
Rack-adhesion locomotive for the Nilgiri railway, India. il Engineering 120:165-6, pl 13 Ag 7 '25

Records

Preparation and use of velocity profiles. V. I. Smart. Ry R 74:209-15 F 2 '24

Repair

Application of micrometers in railway shops. M. H. Williams. il diags Ry Mech Eng 98: 553-8 S '24
Arc welding on locomotive work. il Am Mach 61:914-15 D 11 '24
Assignment of locomotives for enginehouse repairs. il Ry Mech Eng 99:325-30 Je '25
Autogenous welding. J. Grine. il Ry Mech Eng 98:562 S '24
Better terminals versus more locomotives. L. G. Plant. Ry Mech Eng 98:632-4 O '24
Burns flange on locomotive cylinder. R. E. Masters. Foundry 52:52 Ja 15 '24
C. of N.J. locomotive repair contracts criticized. Ry Age 76:1831-3 Je 28 '24
Changing trailing truck springs. J: Connelly. Ry Mech Eng 98:433 Jl '24
Construction and repair of railway equipment. Ry Age 77:293-6 Ag 16 '24
Depressed track for locomotive repairs. il Ry R 77:82 Jl 18 '25
Device for removing piston rods. S. H. Pratt. diags Ry Mech Eng 98:759 D '24
Electric arc welding on the steam locomotive. W. M. B. Brady. il Gen Elec R 27: 687-97 O '24
Equipment repairs burdened railways in 1923. Ry Age 76:739-43 Mr 15 '24
Erecting shop practices—good and bad. C: Riatt. il Ry Mech Eng 97:839-40 D '23
Erie locomotive repairs criticized; I.C.C. finds work in contract shops, 1920-1923, greatly exceeded road's own shop costs. Ry Age 77:1171-3 D 27 '24
Factors concerning the economics of shopping steam locomotives. L. K. Sillcox. Mech Eng 47:419-25 sec 2 My '25; Same cond. Ry Age 78:1263-6 My 23 '25; Same cond. Am Mach 62:915-18 Je 11 '25; Same cond. Ry Mech Eng 99:355-60 Je '25; Same cond. Ry R 76:1147-9 Je 20 '25
French shipyard repairs American locomotives. G. L. Carden. il Ry Age 76:1106-7 My 3 '24
Increasing income by reducing repair costs. H. Y. Carpenter. Ry Mech Eng 99:213-14 Ap '25
K.C.S. makes class 3 repairs within eight hours. il Ry Mech Eng 98:300-2 My '24
Locomotive maintenance. A. G. Pack. Ry Age 77:551-3 S 27 '24; Same. Ry Mech Eng 98: 589-90 O '24
Locomotive repair costs on the New York, New Haven & Hartford R.R. Ry R 73:822 D 8 '23
Locomotive repairs in new Burlington-Denver shops. H. Campbell. il Am Mach 61:447-50, 531-3 S 18, O 2 '24
Maintaining train control equipment on locomotives. E. Wanamaker. il Ry Mech Eng 99:40-4 Ja '25
Marsh portable journal-turning machine. il Ry Mech Eng 98:443-4 Jl '24
Modernized power from reconstructed locomotives. il diags Ry R 74:367-72 Mr 1 '24
Motive power of the Carolina, Clinchfield & Ohio Ry. il diags Ry R 74:1005-17 Je 7 '24
New locomotive repair statistics. Ry Age 76: 335-6 F 2 '24
Periodical locomotive repairs at terminals. Ry Age 77:701-2 O 18 '24
Pits or hoists, for wheeling locomotives? Am Mach 60:660 My 1 '24
Progress boards for the wheel gang. J. R. Phelps. il Ry Mech Eng 99:115-16 F '25
Railroads' interest in safe locomotives. A. G. Pack. Ry Age 78:1027-9 Ap 25 '25; Same cond. Ry R 76:855-7 My 9 '25
Record in completing class III repairs; Kansas City Southern Ry. arranges a demonstration in putting a heavy freight locomotive through Pittsburg shops. il Ry R 74: 713-14 Ap 19 '24
Reducing the cost of locomotive repairs. W: S. Cozad. charts Ry Mech Eng 98:751-7 D '24
Relation of equipment design to maintenance. W: H. Fowler. Ry Mech Eng 98:659-60 N '24
Repairing locomotive frames by arc welding. J. M. Vossler. il diags Am Mach 63:151-4 Jl 23 '25
Repairing locomotives in a manufacturing plant. H. Campbell. il plan Am Mach 61: 329-32 Ag 28 '24
Repairing locomotives in contract shops. F: H. Colvin. Am Mach 59:833-4 D 6 '23
Replacement driving boxes on the New York Central. L. C. Morrow. il diags Am Mach 61:309-12 Ag 21 '24
Replacing crank pins equipped with eccentric arms. R. B. Robinson. diag Ry Mech Eng 99:117-18 F '25
Roundhouse forces make good record in locomotive repairs. Ry R 76:870-1 My 9 '25
Routing mountain type locomotives through shops for heavy repairs. S. W. Mullinix. Ry R 76:395-7 F 28 '25
Running repair costs and repair work practices. Ry R 75:407-9 S 13 '24
Spreader for locomotive welding. L. M. O'Kelley. il Ry Mech Eng 98:38 Ja '24
Suggestions for wheeling locomotives. A. S. Duryea. il Ry Mech Eng 98:38 Ja '24
Union Pacific systematizes running repairs. il Ry Mech Eng 98:694-6 N '24
Welding standardization in locomotive shops. J. S. Heaton. diags Ry Mech Eng 98:176-8, 231-4 Mr-Ap '24
When is a locomotive held for repairs? Ry Age 76:1246-7 My 24 '24

See also Locomotive shops

Rods

Advantages of the floating bushing. Ry Mech Eng 99:200, 259-60, 405-6 Ap-My, Jl '25
Baker bros. locomotive rod boring machine. il Ry Mech Eng 98:48-9 Ja '24; Ry R 74:1060 Je 7 '24
Colburn locomotive-rod boring machine. il Am Mach 61:251 Ag 7 '24
Fixtures for boring and testing locomotive rods. F. H. Colvin. il Am Mach 60:947-9 Je 26 '24
Locomotive connecting rod failures. Engineering 116:566 N 2 '23
Locomotive main rods with solid ends. diags Am Mach 60:855 Je 5 '24

LOCOMOTIVES—Rods—*Continued*
Modern practice in driving rod repairs. il Ry R 75:236-44 Ag 16 '24
Newton duplex locomotive rod boring machines. il Ry Mech Eng 98:643-5 O '24; Am Mach 61:364-5 Ag 28 '24; Iron Age 114:564 S 4 '24
Packing gland provides for improper alignment. diag Ry Mech Eng 99:61 Ja '25
Repairing locomotive main and side rods. C: F. Henry. diags Am Mach 60:731-2 My 15 '24
Rod and valve motion production. il plan Ry Mech Eng 99:351-4 Je '25
Side and main rod work. L. C. Morrow. il Am Mach 61:367-9 S 4 '24

Runs

A.R.A. report on locomotive utilization. Ry Age 78:1557-9 Je 20 '25; Ry Mech Eng 99: 417-18 Jl '25
Extended locomotive runs on the C.B. & Q. R.R. il Ry R 76:719-21 Ap 18 '25
Extension of locomotive runs. F. E. Russell. Ry Age 77:57-9 Jl 12 '24; Same. Ry Mech Eng 98:464-7 Ag '24
Good results obtained with assigned power. E. Von Bergen. Ry Age 77:735-6 O 25 '24
London & North-Eastern railway; Leeds to King's Cross; non-stop. Engineer 137:198 F 22 '24
Long engine runs on the Burlington; monthly savings exceed nine thousand dollars. il map Ry Age 78:971-6 Ap 18 '25; Same. Ry Mech Eng 99:261-5 My '25
Long locomotive runs on the Norfolk & Western Ry. A. C. Needles. il chart diags plan Ry R 74:203-7 F 2 '24
Longer locomotive runs. Engineer 137:481-2 My 2 '24
Longest locomotive run. il Ry Age 76:556 Mr 8 '24
Southern passenger locomotive makes record test run. Ry Age 79:318 Ag 15 '25
Striking record in long locomotive runs. Ry R 74:1153-4 Je 14 '24
3,700 miles in this continuous run. Ry R 77: 514, 822-4 O 3, N 28 '25
Transportation committee report on long engine runs. Ry Age 76:1818-19 Je 28 '24
Union Pacific water work proves profitable; investigation develops significant facts about long locomotive runs. il charts map Ry Age 77:585-92 O 4 '24; Same cond. Eng & Contr (Ry) 62:1109-17 N 19 '24

Sand spreaders

Graham-White sand spreader. diag Ry Age 76:1407 Je 11 '24

Sand supply

Locomotive sand. W. M. Weigel. Ry R 75: 866-7 N 29 '24
Supplying sand to locomotives. Elec Ry J 62: 912 N 24 '23

Smoke problem

L'entretien des ponts métalliques; franchissant des voies ferrées à grande fréquentation. H. A. de Conty. diags Génie Civil 86: 207-11 F 28 '25
Fans to avoid smoke nuisance in Chicago Union station. diags Eng N 92:929-31 My 29 '24
Fireless steaming system at engine terminals. L. G. Plant. Ry R 76:1205-7 Je 27 '25; Same. Ry Age 79:146-7 Jl 18 '25
Smoke abatement and fuel economy. W. J. Overmire. Ry R 77:104 Jl 18 '25
Smoke prevention in Pittsburgh. A. T. Mitchell. diags Ry Age 79:144-6 Jl 18 '25

Springs

Improved method of repairing springs. T. F. Buckley. Ry Mech Eng 98:619-20 O '24
Spring making and repairing. G: H. Corcoran. diag Ry Mech Eng 99:579-80 S '25

Starting

Street locomotive starter. il diags Ry R 75:518-21 O 4 '24; Same cond. Ry Age 77: 598-600 O 4 '24; Same. Ry Mech Eng 98: 702-4 N '24

Statistics

Locomotive and its relation to the railroad service. C. B. Fletcher. Ry R 75:795-6 N 15 '24
Locomotive manufacturing statistics for 1923. Ry R 74:1057 Je 7 '24; Same abr. Eng & Contr (Ry) 61:1370 Je 18 '24
Number of locomotives on British railways. Engineer 140:71 Jl 17 '25

Superheaters

Maintenance and care of superheaters. J. L. Smith. Ry R 75:556-7 O 11 '24
Superheater—its abuse as a fuel saver. B. Browne. Ry Mech Eng 98:149-50 Mr '24
Superheater unit test rack. diags plan Ry Mech Eng 99:58 Ja '25
Zur kritik des lokomotivüberhitzers. R. P. Wagner. diags Zeit Ver Deutsch Ing 68: 951-6 S 13 '24; Abstract (Locomotive superheaters). Mech Eng 46:905-6 D '24

Testing

Automatic cut-off control tested in service. il Ry Age 76:1033-7 Ap 26 '24; Same. Ry Mech Eng 98:267-72 My '24
Boston & Albany tests a 2-8-4 type locomotive. W. W. Baxter. il charts diags Ry R 77:373-82 S 12 '25
Code for road tests of steam locomotives. diags Ry R 73:937-41 D 29 '23
Decapod tests show well defined fuel economy. il Ry Mech Eng 98:662-6 N '24; Same. Ry Age 77:635-9 O 11 '24
Electricity and steam's tug of war. il Am Ind 24:31-2 Mr '24
Exchange trials of locomotives. Engineer 139: 627-8 Je 5 '25; Discussion. 139:651-2, 688-9 Je 12-19 '25
Lehigh Valley three-cylinder locomotive tests. il diags Ry Age 76:755-7 Mr 15 '24; Same. Ry Mech Eng 98:203-5 Ap '24
Locomotive cylinder performance. E. C. Poultney. Engineer 138:574-5, 602-4 N 21-28 '24
Locomotive testing plant and its influence on steam-locomotive design. L. H. Fry. Mech Eng 47:881-6 N '25; Same cond. Ry Age 79: 752-5 O 24 '25
Missouri Pacific tests three-cylinder locomotive. il Ry Age 78:1623-8 Je 27 '25; Same. Ry Mech Eng 99:462-7 Jl '25
Missouri Pacific three cylinder locomotive tests. W. W. Baxter. il charts diags Ry R 77:151-8+ Ag 1 '25
New dynamometer car, New York Central R.R. il plan Ry R 74:687-91 Ap 12 '24
Otheograph records locomotive characteristics. P. M. Gillilan. il diag Ry Age 77:283-6 Ag 16 '24
Otheograph records of steam and electric locomotives. P. M. Gillilan. il Gen Elec R 27:179-81 Mr '24
Performance of three-cylinder locomotive for the South Manchurian railway on test track. il diags Ry R 75:611-15 O 25 '24
Performance tests of the locomotive booster. M. H. Roberts. Ry R 74:765-9 Ap 26 '24
Tests of 2-8-4 locomotive on B. & A. F. A. Butler. il Ry Age 79:467-71 S 12 '25; Same. Ry Mech Eng 99:621-5 O '25
Three-cylinder high-pressure locomotive. H. N. Gresley. Engineer 140:46, 58-9 Jl 10-17 '25; Same. Engineering 120:58-61, 86-8 Jl 10-17 '25; Abstract. Mech Eng 47:756 S '25; Discussion. Engineer 140:41 Jl 10 '25; Engineering 120:52-3 Jl 10 '25
Three-cylinder Mikado for the South Manchurian. il diags Ry Mech Eng 98:656-9 N '24; Excerpt. Ry Age 77:733-4 O 25 '24
Twenty years' work on the Pennsylvania railroad locomotive testing plant. L. H. Fry. Engineering 119:371 Mr 27 '25
Vergleichversuche zwischen Diesel- und dampflokomotive. F. Meineke. diags Zeit Ver Deutsch Ing 69:321-2 Mr 7 '25
Zur untersuchung von thermolokomotiven. G: Lomonossoff. diags Zeit Ver Deutsch Ing 68:849-52 Ag 16 '24

See also Electric locomotives—Testing

LOCOMOTIVES—*Continued*

Transportation

Shipment of locomotives to India. il Engineering 116:802-4, 806 D 28 '23

Uniflow type

Unaflow locomotive is built for Russia. J. Stumpf. il diags Ry Mech Eng 98:517-21 S '24; Same. Ry Age 77:327-31 Ag 23 '24

Valves and valve gear

Beames-Walschaerts valve gear. charts diags Engineer 137:706-7 Je 27 '24

British methods of setting locomotive valves. F. Norman. diags Ry Mech Eng 99:163-4 Mr '25

Chambers front end locomotive throttle valve. il Ry Age 76:1408 Je 11 '24

Development of the Lentz poppet valve gear. A. Niklitchek. il diags Ry Mech Eng 98: 407-9 Jl '24

Device for reseating Cole pop valves. diags Ry Mech Eng 98:365-6 Je '24

Elimination of errors in Stephenson valve motion. R. C. Beaver. diags Ry Mech Eng 98: 214-16 Ap '24

Emergency brake for Mallet engine trucks. H. C. Gillespie. diags Ry Mech Eng 99:652 O '25

Fixtures for holding distributing and triple valves. H. J. Duernberger. diags Ry Mech Eng 99:116-17 F '25

Helpful suggestions for setting valve gear. H. W. Stowell. diags Ry Mech Eng 98:596-7 O '24; Discussion. 99:77, 485-6 F, Ag '25

Locomotive cylinder drainage system; the Diel-More. il Ry Age 76:1410-11 Je 11 '24

Locomotive exhaust pipe for braking trains. diags Ry Mech Eng 99:184-5 Mr '25

Locomotive valve-stem trams. F. M. A'Hearn. diag Am Mach 60:335 F 28 '24

Locomotive valve travel. Engineer 139:711-12 Je 26 '25

Model for locomotive valve gear. il Engineer 140:140 Ag 7 '25

Needle valve reseating tool. G. L. Davis. il diags Ry Mech Eng 99:723 N '25

Reducing valve piston repairs. F. Bentley. Ry Mech Eng 99:58 Ja '25

Rod and valve motion production. il plan Ry Mech Eng 99:351-4 Je '25

Valve and valve gear repairs. J. H. Armstrong. Ry Mech Eng 98:302-3 My '24

Washing

See Locomotives—Cleaning

Wheels

Derailments of locomotives on curves. R. C. Beaver and M. B. Richardson. diags Ry Mech Eng 99:16-20 Ja '25

Locomotive crank pin grinding and quartering machine. il diag Engineer 136:650 D 14 '23

Locomotive wheel quartering machine. il diags Engineer 139:250 F 27 '25

Mounting locomotive, tender and car wheels. diags Am Mach 60:768 My 22 '24

Standard sizes and shrinkage of hub bands. C. H. French. diags Am Mach 60:971 Je 26 '24

Successful locomotive hub liner practice. H. L. Lucks. diags Ry Mech Eng 97:833 D '23

See also Locomotives—Driving wheels; Tires, Locomotive

LOCOMOTIVES, Diesel-electric

Baldwin builds Diesel-electric locomotives. il Ry Age 79:645-8 O 10 '25; Same, with plan. Ry Mech Eng 99:688-92 N '25

Betriebs- und versuchsergebnisse der russischen dieselelektrischen lokomotive. F. Meineke. diags Zeit Ver Deutsch Ing 69:1321-2 O 17 '25

Diesel-electric locomotive for the Russian government. J. Stumpf. il diag Ry Age 78: 321-3 Ja 31 '25; Same. Ry Mech Eng 99:140-2 Mr '25

Diesel-electric locomotives. diag Engineer 138: 322, 324, 552-4 S 19, N 14 '24

Diesel soon big boon to oil. Pet Age 16:50 S 1 '25

Internal combustion electric locomotives. H. Lemp. il diags Gen Elec R 27:673-81 O '24

Internal-combustion locomotive; electrical transmission gear. J. W. Hobson. Elec R (Lond) 96:316-17 F 20 '25

Italian double-ended Diesel-electric locomotive. diag Engineer 139:358 Mr 27 '25

Oil-electric locomotive performance. il Ry Age 79:231-3 Ag 1 '25

Oil-electric locomotive with injection type engine. il Ry Age 76:1159 My 10 '24; Aera 12: 1729-32 My '24; Ry R 74:846-7 My 10 '24; Ry Mech Eng 98:418 Jl '24; Sci Am 131:93 Ag '24; Eng N 93:390-1 S 4 '24; Engineering 118: 781 D 5 '24

Road tests of a Diesel-electric locomotive. Engineer 139:249 F 27 '25

Zur untersuchung von thermolokomotiven. G: Lomonossoff. diags Zeit Ver Deutsch Ing 68:849-52 Ag 16 '24

LOCOMOTIVES, Electric. See Electric locomotives; Locomotive, Diesel-electric; Locomotives, Steam turbine-electric

LOCOMOTIVES, Gas and oil

Baldwin Diesel locomotive with Knudsen engine. diag Mech Eng 47:503 Je '25

Baldwin experimenting with Diesel locomotives. Power 61:317 F 24 '25

Crude-oil engine shunting locomotive. il diags Engineering 118:701-3 N 21 '24

Crude oil motor locomotive. il diags Engineering 116:553-5 N 2 '23

Davenport seven-ton gasoline locomotive. il Good Roads 67:92 S '24

Davenport 20-ton gasoline locomotive. il Eng & Contr (G C) 63:1121 My 20 '25

Die diesellokomotive vom standpunkt des lokomotivbaues. M. Mayer. diags Zeit Ver Deutsch Ing 69:635-41 My 9 '25

Dieselmotor und kraftübertragung für grossöllokomotiven. J. Geiger. il diags Zeit Ver Deutsch Ing 69:642-6 My 9 '25; Abstract (Diesel locomotive design in Germany). Engineer 139:578-9 My 22 '25

Drewry petrol locomotive for oil refinery. il Engineer 140:10 Jl 3 '25

L'état actuel de la traction sur voies ferrées par moteurs à combustion interne. E. Brillié. il diags Soc Ing Civils Bul 78:199-260, pl 91-2 Mr '25; Same (Traction on rails by internal-combustion engines). Engineering 119:491-3, 524-7, 558-60, 620-2, 684-7 Ap 17-My 1, 15, 29 '25; Same cond. Génie Civil 86:325-33, 355-8 Ap 4-11 '25

Flüssigkeitsgetriebe für ölmotor-lokomotiven; Schneider-getriebe. T. Müller. il diags Zeit Ver Deutsch Ing 69:499-504, 595-600 Ap 18, My 2 '25

Gasoline locomotive for switching service made by Fate-Root-Heath co. il Iron Age 115:286 Ja 22 '25; Eng & Contr (Equip R) 63:914-15 Ap 29 '25

Gasoline locomotive spells economy. B. Eisenman. il Brick & Clay Rec 65:111-12 Jl 22 '24

German Diesel locomotive with fluid transmission gear. diag Mech Eng 47:672-3 Ag '25

Hydraulic transmission for Diesel locomotives. il diags Ry Mech Eng 99:151-2 Mr '25

Locotracteur à moteur Diesel et à transmission hydraulique Lentz, des ateliers de Gratz (Autriche). il diags Génie Civil 85: 325 O 11 '24

Milwaukee type H locomotive. il Eng & Contr (R & S) 61:66 Ja 2 '24

Milwaukee type H15 gasoline locomotive. il Good Roads 68:72 F '25

New model Plymouth locomotive. il Eng & Contr (R & S) 61:60 Ja 2 '24

Next step is the Sulzer thermo-locomotive; application of Diesel engine to railroad work. J. Barraja-Frauenfelder. diags Ry Mech Eng 98:81-5 F '24

Oil locomotives. Engineer 137:230 F 29 '24

Rohöllokomotiven mit kompressorlosem Dieselmotor und flüssigkeitsgetriebe. W. Schumacher. il diags Zeit Ver Deutsch Ing 69: 647-52 My 9 '25

LOCOMOTIVES, Gas and oil—*Continued*
Status of oil-engine locomotives. E. B. Katte; E. A. Sperry; L. G. Coleman. Ry Age 79: 88-90 Jl 11 '25; Abstract. Mech Eng 47:648-9 Ag '25
Vermot shunting tractor. il diags Engineer 136:687-8, 694 D 28 '23; Engineering 116:768-70 D 21 '23
Vulcan gasoline locomotive with airbrake equipment. il Iron Age 115:410 F 5 '25; Eng & Contr (R & S) 63:83 Ja 7 '25
Vulcan 20-ton gasoline locomotive. il Iron Age 116:82 Jl 9 '25; Eng & Min J 120:153-4 Jl 25 '25
Whitcomb 4-ton gasoline locomotive. il Eng & Contr (R & S) 63:721 Ap 1 '25
Zur theorie der Diesellokomotive. G. Lomonossoff. Zeit Ver Deutsch Ing 68:198-202 Mr 1 '24
Zur untersuchung von thermolokomotiven. G: Lomonossoff. diags Zeit Ver Deutsch Ing 68:849-52 Ag 16 '24

LOCOMOTIVES, Industrial
Fireless locomotive saves fuel. C. E. Colburn. il Blast F & Steel Pl 12:Material handling sec 16 Ap '24
Light locomotives most suitable for plantation and industrial railways. E: N. Vose. il Dun's Int R 46:47-8 S '25
Small heavy locomotives. il Blast F & Steel Pl 11:633-4 D '23
Vermot shunting tractor. il diags Engineer 136:687-8, 694 D 28 '23; Engineering 116:768-70 D 21 '23

See also Electric locomotives, Industrial; Locomotives, Mine; Tractors

LOCOMOTIVES, Mine
Little steam locomotives once hauled coal underground. il Coal Age 27:43 Ja 8 '25
Shuttler locomotive speeds up work of machine loaders. il Coal Age 27:632 Ap 23 '25
Simplified methods in locomotive haulage. H. C. Goodrich. il Min Cong J 11:303-5+ Je '25
Small compressed air locomotive. il Eng & Min J 120:196 Ag 1 '25

See also Electric locomotives, Mine

Standards
Standardizing underground transportation. diags Min Cong J 10:135-41 Mr '24

LOCOMOTIVES, Steam turbine
Developments of the Ljungstrom locomotive. il Ry Age 76:849-50 Mr 29 '24; Abstract. Mech Eng 46:356-7 Je '24
Les essais de la locomotive à turbine Zoelly, de la Société Escher Wyss et Cie. il Génie Civil 85:433 N 8 '24
First Krupp turbine locomotive. il Mech Eng 46:904-5 D '24
Die kondensationslokomotive mit turbinenantrieb, system Ljungström. il Zeit Ver Deutsch Ing 68:1004 S 20 '24
Krupp turbine locomotive. il diag Sci Am 132:245 Ap '25
Ljungstrom turbo-locomotive being built by Beyer, Peacock & company, Manchester, England, for passenger service between London and Glasgow without change. diag Ry Age 77:192 Ag 2 '24
Reid-MacLeod geared turbine condensing locomotive. il Ry Age 76:107 Jl 19 '24; Engineering 118:479, 488 O 3 '24
Die turbinenlokomotive der schweizerischen bundesbahnen. diags Zeit Ver Deutsch Ing 69:514-16 Ap 18 '25
Turbines on locomotives, particularly with compound engines; abstract. H. Durin. Mech Eng 47:757 S '25
Zoelly turbine-driven locomotive. H. Zoelly. il diags plan Mech Eng 46:653-60 N '24; Same. Ry R 76:145-54 Ja 17 '25; Excerpts. Ry Age 77:875-8 N 15 '24; Excerpts. Ry Mech Eng 98:726-32 D '24; Abstract. Power 60:934 D 9 '24
Zoelly turbine locomotive. diags Engineer 138:530-2 N 7 '24
Zur frage der turbolokomotive. O. T. Post. Zeit Ver Deutsch Ing 68:302-4 Mr 29 '24

Bibliography
Steam turbine locomotive. A. A. Slobod. Special Lib 16:206 Je '25

LOCOMOTIVES, Steam turbine-electric
Ramsay condensing turbo-electric locomotive. G: F. Jones and T. L. Hale. il diags plans Mech Eng 47:235-9 Ap '25; Same cond. Ry Age 78:177-80 Ja 10 '25; Same. Ry Mech Eng 99:5-11 Ja '25; Discussion. Mech Eng 47:240-2 Ap '25
Recent developments in railroad locomotives discussed at A.S.M.E. railroad division meeting. Eng N 93:955 D 11 '24

LOCUSTS
Argentine fights locust pest with galvanized iron. Sheet Metal Worker 15:639 S 12 '24
Fighting locusts with sheet steel. il Iron Age 115:1255-7 Ap 30 '25
Locust fighting; a battle that man never wins, but never gives up. il Sci Am 132: 299 My '25

LODGE, Henry Cabot, 1850-1924
Sketch. Comm & Fin Chr 119:2250-2 N 15 '24

LODGE doctor. See Medical service, Cooperative

LODGES
Engineer's lodge built from materials found at hand. il plan Concrete 24:63-4 F '24

LOEB, Jacques, 1859-1924
Sketch. por Chem & Met Eng 30:287 F 18 '24
Sketch. J: H. Northrop. por Ind & Eng Chem 16:318 Mr '24

LOEW, Marcus
The man who heads the new merger in the movies. C. T. Crowell. por Forbes 14:156-8+ My 10 '24

LOFT buildings
Arsenal building, New York city. Arch & Bldg 57:31-2, pl 82 Ap '25

LOGARITHMIC decrement. See Vibration

LOGARITHMS
Graphic table combining logarithms and antilogarithms. A. Lacroix and C: L. Ragot. 46p Macmillan '25
Natural sines. E. Gifford. 543p Van Nostrand
Plane trigonometry and logarithms. B. H. Brown and J. W. Young. 66p Houghton '25
Semi-logarithmic chart. A. C. Haskell. Ind Management 66:300-1 N '23

LOGGING. See Lumbering

LOGS (ships)
New propeller log gives revolutions per minute. il Marine R 55:369-72 O '25; Marine Eng 30:642-3 N '25
Ship-log is improved by use of connector. il diag Marine R 55:334-5 S '25

LOGWOOD
Chlorate of potash and logwood extract in hearings before Tariff commission. Chem & Met Eng 29:940 N 19 '23
Impregnating cotton with tannin for logwood dyeing. W. R. McKennon. Textile Col 47: 638-9, 703-4+ O-N '25
Interesting sources of natural dyestuffs; little-known facts about logwood. C. D. Mell. il Textile Col 46:443-4 Jl '24
Logwood black. C. Cavendish. Color Tr J 15: 105-6 O '24
Logwood black on various materials. H. R. Tisdale. Textile World 67:3545+ My 30 '25
Logwood extract duty before tariff board. Oil Paint & Drug Rep 104:44d N 19 '23
Logwood in Haiti: an economic survey. H. P. Davis. il Oil Paint & Drug Rep 105:63-4 Mr 20 '24
Modern applications of logwood to cotton. J. R. Spencer. Textile Col 46:502-5, 649-53, 702-3 Ag, O-N '24

LONDON, England
American quarter of London—Aldwych, Kingsway and vicinity. E: N. Vose. il map Dun's Int R 44:37-40+ O '24

See also Electricity supply—London

LONDON, England—*Continued*

Architecture

Devonshire house, Piccadilly. il (supp) diags plans Am Arch 128:127-32 Ag 12 '25
Londinium; architecture and the crafts. W. R. Lethaby. 248p Appleton '24

See also Bush House, London; Housing—London; Westminster Hall—London

Bridges

Erection of Waterloo temporary bridge. il (supp) Engineer 139:686, 701-4 Je 19-26 '25; Engineering 119:762-4 Je 19 '25
Settlement of piers endangers Waterloo bridge. il Eng N 92:1059 Je 19 '24
Waterloo bridge. J: J. Robson. Engineering 117:584-5, 766 My 2, Je 13 '24

Commerce

Market methods and trade usages in London. U S Sp Cons Rep 86:1-82 '23
Small-consignment commodity-distribution in London and its environs. J. Paterson. chart maps Soc Auto Eng J 15:352-8 O '24; Discussion. 16:326-9 Mr '25

Harbor

Port of London is wisely managed. V. Delport. il map Marine R 55:375-9 O '25

Railroads

Outline of rapid transit development. C: L. Morgan. il Engineering 116:603-5 N 9 '23; Same cond. Engineer 136:508-9 N 9 '23

Rapid transit

Buses will not supplant rail lines in London; interview with Sir Henry Maybury. J: W. Colton. Aera 14:370-3 O '25
Hendon-Edgware extension of the London electric railways. il map Engineer 138:216-18 Ag 22 '24
L.C.C. committee favors tramways. Elec Ry J 64:335 Ag 30 '24
London county council tramways; report on the financial position. Elec R (Lond) 96:276 F 13 '25
London's complicated transportation situation. il map Elec Ry J 64:425-7 S 20 '24
London's traffic problems. L. Macassey. Aera 13:1000-16, 1200-13, 1315-24 Ja-Mr '25; Abstracts. Engineer 138:402-3 O 10 '24; Engineering 118:522 O 10 '24; Elec R (Lond) 95:570-1 O 17 '24
Lord Ashfield on the future of tram and bus. il maps Elec Ry J 64:427-33 S 20 '24
Many problems before London Underground; abstracts. Lord Ashfield. Elec Ry J 65:485-6 Mr 21 '25; Bus Transportation 4:203 Ap '25
Outline of rapid transit development. C: L. Morgan. il Engineering 116:603-5 N 9 '23; Same cond. Engineer 136:508-9 N 9 '23
Rapid transit proposed on the Thames. Eng N 93:619 O 16 '24
Tram strike and metropolitan traffic. Engineering 117:406-7 Mr 28 '24
Tramcar vs. bus in London. C. J. Spencer. Aera 13:1665-9 My '25

See also London—Subways

Science museum

Engineering at the Science museum. E. C. Smith. Engineering 119:689-90 Je 5 '25

Streets

Developing arterial roads at London. E. J. Mehren. map Eng N 93:586-7 O 9 '24
English roads and London traffic. P. Wooton. Eng N 91:926-7 D 6 '23
European street congestion notably lighter. il Elec Ry J 64:435-7 S 20 '24

Subways

Les ateliers de réparations du matériel roulant des London underground railways à Acton. il diags plans Génie Civil 84:441-5 My 10 '24
Camden Town extension, London electric railways. il diags plan Engineer 137:288-9, 442-3 Mr 14, Ap 25 '24; Elec R (Lond) 94:797-9 My 16 '24
City and South London railway; completion of work of reconstruction. il map Elec R (Lond) 95:886-8 D 12 '24; Engineering 118: 775-6 D 5 '24
Development of the London underground railways. Engineering 117:561 Ap 25 '24
London improves and extends its transit system. plans Eng N 92:154-5 Ja 24 '24
London tube-facilities to be extended to meet competition. Elec Ry J 62:916 N 24 '23
Oldest London tube reopened. il diags map Elec Ry J 65:141-3 Ja 24 '25
Recent London underground advertising posters. il Elec Ry J 64:804-5 N 8 '24
What London owes to the engineer; abstracts. B. Mott. Engineering 118:640-1 N 7 '24; Engineer 138:517-19 N 7 '24

Water supply

Littleton reservoir of the Metropolitan water board. il diags map Engineering 119:593-6, 627-31, 690-3, 704, pl 39-44 My 15-22, Je 5 '25; Engineer 139:672-5, 682, 705-8, 710 Je 19-26 '25; Eng & Contr (W W) 64:835-44 O 14 '25
London water supply. Engineer 136:696 D 28 '23
Metropolitan water board; 18th annual report of Director of water examination. Engineer 138:275 S 5 '24
Metropolitan water board; 19th annual report of the Director of water examination. Engineer 140:352-3 O 2 '25
Metropolitan water board; report of the works completed during 1923. Engineer 137:47 Ja 11 '24; Abstract. Eng N 92:368 F 28 '24
Metropolitan water board 21st annual report. Engineer 138:503 O 31 '24
Water consumption in London, England. Eng & Contr (W W) 62:583 S 10 '24

LONDON, Ontario

Sewerage

New district sewer system, London, Ont. W. M. Veitch. il diags map plan Can Eng 48: 183-7 F 3 '25; Same. Eng & Contr (W W) 63:507-14 Mr 11 '25

Water supply

Meters save water in London, Ontario. E. V. Buchanan. Can Eng 47:403 O 7 '24; Same. Eng & Contr (W W) 62:1087-8 N 12 '24

LONDON and North-Western railway

One hundred years of British railways. Engineer 138:288-90, 319-21, 354-6 S 12-26 '24

LONDON nitrate company, limited

Annual meeting, 37th, Liverpool, Dec. 19. Economist 99:1072 D 27 '24

LONDON school of printing

London school of printing. J. R. Riddell. il Inland Ptr 75:580-2 Jl '25

LONDON stock exchange

Movement of security values on the London stock exchange in January. Econ W n s 29: 232 F 14 '25

LONEALING (term)

Lonealing—a new term in heat treating. Am Mach 60:420 Mr 20 '24; Same. Iron Tr R 74: 916 Ap 3 '24; Same. Iron Age 113:811 Mr 13 '24; Same. Mach 30:612 Ap '24; Same abr. Automotive Ind 50:623 Mr 13 '24; Same abr. Ry R 74:579 Mr 22 '24

LONG BEACH, California

See also Electric plants (central stations)—Long Beach, California

Harbors

Long Beach harbor improvements. diags plan Eng & Contr (G C) 63:1347-9 Je 17 '25

LONG BRANCH, Ontario

Sewerage

Sewerage system at Long Branch, Ont. il diags plan Can Eng 47:533-5 N 25 '24

LONG ISLAND, New York

Rapid transit

Bus company develops from community club. il Bus Transportation 3:303-4 Jl '24

LONG ISLAND City

Rapid transit

Fare increase for Queens county road. Elec Ry J 63:1028-30 Je 28 '24

LONG ISLAND railroad

Annual report, 42d, 1923. Comm & Fin Chr 118:1767, 1905 Ap 12-19 '24

Annual report, 43d, year ended Dec. 31, 1924. Comm & Fin Chr 120:2139-40 Ap 25 '25

Long Island railroad's 1924 improvement budget. Ry R 74:1045 Je 7 '24

Service started on Babylon electrification of Long Island railroad. il Elec Ry J 65:803-6 My 23 '25

LONGDALE iron company

Going back to Longdale where furnaces, mines and mansions were part of a principality. W: W. Hearne. il Iron Tr R 77: 1023-7 O 22 '25

LONGEVITY

Life duration and interest rates. J: F. Fennelly. Comm & Fin 14:1713 S 9 '25

Life-span of insured wage-earners in the United States and Canada in 1923. Econ W n s 28:422 S 20 '24

LONGIFOLENE

Constituents of Indian turpentine from *pinus* longifolia, Roxb. J: L. Simonsen. Chem Soc J 123:2642-66 O '23

LONGITUDE

Determining longitude by radio. C. H. Swick. il Radio N 6:656-7 N '24

Mapping continents by radio. C. H. Swick. il Sci Am 132:333 My '25

LONGSHOREMEN

Admiralty jurisdiction over stevedores. Monthly Labor R 18:894-6 Ap '24

Decasualization of dock labor in Seattle. Monthly Labor R 19:868-70 O '24

How Nova Scotia handles its extraterritorial problems, with special reference to longshoremen. V. J. Paton. U S Bur Labor Statistics Bul 385:21-6; Discussion. 26-7 '25

Inspection of employment in ports in the Netherlands in 1922. Int Labour R 9:756-8 My '24

Longshore labor efficiency. Monthly Labor R 18:325-33 F '24

Longshore work—Seattle. Monthly Labor R 18:579 Mr '24

Longshoremen; Atlantic and gulf ports. Monthly Labor R 18:344-7 F '24

Longshoremen; labor agreements. Monthly Labor R 20:842-3 Ap '25

Play fair with your stevedore. A. E. Wood. il Marine R 55:169 Ap '25

Safety 'longshore—look out below! M. E. Arkills. il Nat Safety N 11:13-14 Je '25

Status of maritime workers injured in the course of employment. L. D. Clark. Monthly Labor R 18:402-6 F '24

LONGVIEW, Washington

Cities reared to order. E. Dakin. il Comm & Fin 13:2189-91 N 12 '24

City built with buses. il map Bus Transportation 3:495-7 N '24

"A city, please"—Longview the result. N. Swett. il plans Bldg Age 46:78-87+ My '24

Concrete-built lumber city. il Concrete 26:139-40 Ap '25

Electricity in a modern lumber project. F. R. Innes. il diag map Elec W 85:137-40, 198-202, 243-6, 297-301 Ja 17-F 7 '25

LOOMS

Advantages of automatic high speed looms. C. Draper. Textile World 66:2539+ N 1 '24

Anti-vibrator for looms. F. Hymans. diag Textile World 65:3813+ Je 7 '24

Care of loom reeds. Textile World 66:1427+ S 13 '24

Development of the Jacquard loom. F. W. Howe. Comm & Fin 14:859 sec 2 Ap 29 '25

Improved warp damper for looms. il Engineer 138:594 N 21 '24

Loom motor transmission. C. A. Baer. il Textile World 65:2327 Ap 5 '24

Textile mill mechanical department. il diag Textile World 65:3807+ Je 7 '24

Whitin drawing frame model H. diag Textile World 68:1354 S 5 '25

See also Weaving

Manufacture

Materials handling in multi-storied buildings; the Crompton & Knowles loom works. M: W. Potts. il Ind Management 70:83-8 Ag '25

LOOSE, Jacob J.

Make every good idea count, said Jacob L. Loose. B. L. Hupp. por System 48:52-3 Jl '25

LORAIN, Ohio

Ohio tornado destroys Lorain business district. il Eng N 93:54-6 Jl 10 '24

LOREE merger plan. See Railroads—Consolidation

LORENTZ transformation

Proof of the invariance under the Lorentz transformation of the equation of motion of the electron. L. Page. Phys R 24:627-30 D '24

LORIENT, France

Les transformations du port de Lorient. A. Pawlowski. il map plans Génie Civil 86:1-5 Ja 3 '25

LOS ANGELES, California

Frank Wiggins, builder of a city. Nation's Business 13:22-3 Jl '25

Growth of Los Angeles. Economist 100:390-1 F 28 '25

Los Angeles' administration center. E. G. Leaf. plans Am Arch 127:317-19 Ap 8 '25

Los Angeles architects combine for public service. S. P. Trood. Eng N 95:312-13 Ag 20 '25

New administration center plan for Los Angeles. Arch Rec 57:474, 475 My '25; Nation's Health 7:353-4 My '25

New civic centre of Los Angeles. plan Am Inst Arch J 13:151-2 Ap '25

Bureau of power and light

Electrical distribution for a city of unusual growth. C. A. Heinze. il diags plans Elec J 22:261-8 Je '25

Los Angeles experiment in municipal power. F. G. Tyrrell. J Elec 52:311-16 My 1 '24; Discussion. 52:346-9, 478-9 My 15, Je 15 '24

Telling the people their business. T: J. Mercer. Ptr Ink 133:169-70+ N 5 '25

Coliseum

Los Angeles coliseum. R. L. Morin. il Am Arch 125:430-4 My 7 '24

Harbor

Extensive work in Los Angeles harbor recommended. map Eng N 93:740-1 N 6 '24

Hotels

Los Angeles-Biltmore hotel. il diags Arch Forum 39:198-203, pl 73-9 N '23

Museum of history, science and art

Allied architects association of Los Angeles. Am Inst Arch J 13:114 Mr '25

Politics and government

Return to checks and balances and decentralization. Eng N 93:338-41 Ag 28 '24

Railroads

Industrial sites and trackage. W. R. Armstrong. map Eng & Contr (G C) 64:651-4 S 16 '25

State commission has no power to order union station. Ry Age 76:930, 984-5 Ap 12-19 '24

Rapid transit

Comprehensive transportation plan for Los Angeles. diags plans Elec Ry J 65:731-5 My 9 '25

LOS ANGELES, California—Rapid transit —*Continued*
Conditions existing in Los Angeles. W: McClintock. Elec Ry J 65:737-8 My 9 '25
Congestion, traffic control and rapid transit. D. W. Pontius. Elec Ry J 66:618-19 O 10 '25
Hollywood subway sanctioned. Elec Ry J 63: 82 Ja 12 '24
Los Angeles after subways. Elec Ry J 62:872 N 17 '23
New tunnel in Los Angeles for Pacific electric railway company. E. C. Thomas. il diags map Aera 13:198-204 S '24
Sub-surface terminal for Los Angeles. il Elec Ry J 65:179-80 Ja 31 '25
Tentative plans for Los Angeles subway. Elec Ry J 66:711-12 O 17 '25
Tunnel digging is begun in Los Angeles. C. A. Elliott. il diag map Elec Ry J 64:349-51 S 6 '24
$200,000,000 transit system on Coast. Elec Ry J 65:705-6 My 2 '25

Sewerage

Los Angeles North outfall sewer includes various types of concrete construction. il map Concrete 26:112-17 Ap '25
Progress on North outfall sewer for city of Los Angeles. W. T. Knowlton. il Eng N 92: 730-1 Ap 24 '24

Streets

Conditions in Los Angeles. G: B. Anderson: Aera 12:1339-46 Mr '24; Abstract. Elec Ry J 63:372-3 Mr 8 '24
Los Angeles simplifies traffic laws and reduces accidents. C. R. Snethen. il Nat Safety N 12:25-6 Jl '25
Propose major street improvements for Los Angeles. Nat Safety N 10:32 D '24
Traffic commission of Los Angeles. P. G. Hoffman. chart diag Ann Am Acad 116:246-50 N '24
Unified traffic control tried in Los Angeles. il Elec Ry J 63:579 Ap 12 '24

Water supply

Better prospects for settlement of Owens Valley dispute. Eng N 94:767-8 My 7 '25
Leading a river across the desert. E: C. Crossman. il Sci Am 132:92-3 F '25
Los Angeles plans 268-mi. aqueduct from Colorado river. Eng N 94:560 Ap 2 '25

LOS ANGELES chamber of commerce building
California's big heating job. H. A. Tatum. il Dom Eng 113:37-8 O 31 '25

LOS ANGELES county
Metropolitan sewer plan for Los Angeles county, A. K. Warren. map Eng N 94:1026 Je 18 '25
Water conservation program for Los Angeles county. map Eng N 92:1088-90 Je 26 '24

LOS ANGELES gas and electric corporation
Modern home of the Los Angeles gas and electric corporation. il J Elec 54:132-3 F 15 '25

LOS ANGELES stock exchange
History of stock exchanges formed in Los Angeles. Comm & Fin Chr 119:2609 D 6 '24
Passing the sirens by. E. Dakin. il Comm & Fin 13:2368-71 D 10 '24

LOTH guide cable
La navigation aérienne guidée par un champ électromagnétique. Génie Civil 84:623-5 Je 28 '24

LOUD speaking apparatus
Addressing the million. il Electrician 94:686-7 Je 12 '25
Development of a new type of hornless loud speaker. C. W. Rice and E: W. Kellogg. il diags Am Inst E E J 44:982-91; Discussion. 1015-20 S '25
How the King will address thousands at opening of British Empire exhibition. il diags Electrician 92:480-1 Ap 18 '24; Elec R (Lond) 94:714-15 My 2 '24
Loud speaker now used to place orders in lunch room. il J Elec 54:108-9 F 1 '25
Public address system at the British Empire exhibition. il diags Engineering 117:560-1 Ap 25 '24
Radio and the public address system. W. S. Thompson, jr. il diags Radio N 5:1398-1400 Ap '24
Spellbinding kilowatt. il Sci Am 131:154+ S '24
Steven's new public address system. L. C. W. Conrow. il diags Stevens Ind 41:122-3+ O '24
See also Radio loud speakers

LOUISIANA
See also Forests and forestry—Louisiana; Roads—Louisiana; Wages—Louisiana

Industries and resources

Census of Louisiana manufactures, 1923. Manuf Rec 87:115 Je 4 '25
Some facts about Louisiana. H: L. Fuqua. Manuf Rec 86:377; Statistics. 381 pt 2 D 11 '24
See also Gas, Natural—Louisiana; Mines and mineral resources—Louisiana; Petroleum—Louisiana; Petroleum industry and trade—Louisiana

LOUISVILLE, Kentucky

Rapid transit

Bus operation is benefiting Louisville. F. E. Belleville. Elec Ry J 63:421-2 Mr 15 '24; Same. Bus Transportation 3:182 Ap '24
Dividends on common expected in Louisville. Elec Ry J 65:637-8 Ap 18 '25
Louisville railway prospects bright. Elec Ry J 63:393-4 Mr 8 '24

Water supply

Reconstruction of filters at Louisville. W. H. Lovejoy. Am Water Works Assn J 14:352-6 O '25

LOUISVILLE & Nashville railroad
Annual report, 73d, 1923. Comm & Fin Chr 118:1681-5 Ap 5 '24; Abstract. Ry R 74:783 Ap 26 '24
Annual report, 74th, for the year ended Dec. 31, 1924. Comm & Fin Chr 120:1766-71 Ap 4 '25
Louisville & Nashville railroad bonds. Moody's Inv Serv 17:4 Ja 2 '25
New Pullman equipment for L. & N. pan-American trains. il diags Ry Age 79:216-19 Ag 1 '25
When a business gets "in Dutch" with the public. Sales Management 8:33-4 Ja 10 '25

LOUVAIN university

Library

Library of Louvain. il Dun's Int R 43:69-70+ Jl '24

LOUVERS
Better utilization of daylight in art galleries and other places. H. I. Day. il Am Arch 126:581-8 D 17 '24

LOW, Fred R.
New president of the American society of mechanical engineers. A. D. Blake. por Power 58:938 D 11 '23

LOW temperature. See Temperature, Low

LOWELL textile school
27th commencement exercises, June 9. Textile World 67:3852 Je 13 '25

LOWENSTEIN, Arthur
Practical idealism in industry. por Chem & Met Eng 30:500 Mr 31 '24

LOWER California. See California, Lower

LUBRICATING greases
Lubricating greases, their composition, properties and application. J. E. Babb. il Nat Pet N 17:82-3+ Jl 15 '25
Measurement of cup grease consistency by use of the plastometer. P. K. Porter and W. A. Gruse. Ind & Eng Chem 17:953-5 S '25
Train the force to sell more grease because it is profitable. J. R. Battenfeld. Nat Pet N 17:83-4 Mr 18 '25
Use of grease in modern lubrication practice. A. F. Brewer. il Ind Management 70:153-8 S '25

LUBRICATING greases—*Continued*

Manufacture

Control of consistency in manufacture of cup grease. D: R. Merrill. Ind & Eng Chem 17: 1068-71 O '25

Manufacture of railroad engine greases. H. L. Kauffman. Ry Mech Eng 98:13-14 Ja '24.

Testing

Report of sub-committee IV on grease; proposed method of test for the penetration of cup and railroad greases. il diags Am Soc T M Pro 24 pt 1:513-21 '24

LUBRICATING oil industry

Breaking up a hard and fast buying habit with demonstrations. Sales Management 7: 1843-4 D '24

Develop personality and originality in selling motor oils. L. W. Jaeger. Nat Pet N 17:91-2 My 13 '25

Dodge bros. oils show greater lack of uniformity than Independents'. R. B. Stafford. Nat Pet N 16:59-60 Je 18 '24

Fundamentals in relationship between refiner and jobber. H. L. Deming. Nat Pet N 17: 75-7+ N 4 '25; Excerpt. Pet Age 16:44+ N 1 '25

Independents standardize lube grades and start post advertising. Nat Pet N 17:88 Mr 11 '25

Indiana refining co. builds lube trade with motor testing service. W. K. Halbert. il Nat Pet N 17:117+ My 13 '25

Investigation shows most motor oil being sold is good oil. P. Truesdell. Nat Pet N 16:69+ My 14 '24

Jobber increases lube oil business selling to consumer direct. W. K. Halbert. Nat Pet N 16:67-8 My 21 '24

Jobbers originate sales ideas for pushing lube oils. W. K. Halbert. Nat Pet N 17:123+ My 13 '25

Marketing lubricating oil for ships. Marine R 54:215 Je '24

Sell your own motor oil instead of nationally advertised brand. W. A. McMillan. Nat Pet N 16:91 D 3 '24

Selling your own brand of lubricating oil. W. A. McMillan. Nat Pet N 17:81 My 13 '25

Shining truck as advertisement in smoky town; Marland refining co. of Indiana present finest tank wagon on wheels. W. K. Halbert. il Nat Pet N 16:55+ Je 25 '24

Visible vender handles motor oil in original packages. diags Nat Pet N 17:102 My 13 '25

See also Wisconsin independent oil jobbers

Advertising

Good ad copy without words. J. H. Duncan. il Pet Age 16:32+ Jl 1 '25

Good results can be had from ads in small-town newspapers. M. R. Tennerstedt. Nat Pet N 17:117-18+ S 30 '25

Original advertising schemes of oil marketers. Nat Pet N 17:83 Je 10 '25

LUBRICATION and lubricants

Achieving safety in lubrication. R. W. A. Brewer. Iron Age 113:857-9 Mr 20 '24

Adsorption as applied to refining of petroleum products. H. L. Kauffman. Nat Pet N 16:55+ Ap 9 '24

Advisability of using grooves in bearings. Power Pl Eng 27:1144-5 N 15 '23

Asphalt in lubricating oils. E. A. Evans. Inst Pet Tech J 9:384-8 O '23

Ball-bearing lubrication. A. Duckham and S. E. Bowrey. il Engineering 116:612-13 N 16 '23

Bearing lubrication principles. J. B. Rathbun. Pet Age 15:57, 59 My 15 '25

Behaviour of lubricating oils under oxidising tests. J. B. Hoblyn. Inst Pet Tech J 11: 1-13, pl 1-4 F '25; Same cond. Automobile Eng 15:51-4 F '25; Discussion. Inst Pet Tech J 11:13-35 F '25

Boundary lubrication. Engineering 119:109-10 Ja 23 '25; Same cond. Soc Auto Eng J 16:471-2 Ap '25

Boundary lubrication. R. W. A. Brewer. Iron Age 113:447-8 F 7 '24

Bowen industrial lubricating system. il Am Mach 63:416 S 3 '25

Bucket pump removes and applies grease. il Elec Ry J 65:978 Je 20 '25

Can we standardize power plant lubrication? A. F. Brewer. il Ind Management 69:19-23, 70-5 Ja-F '25

Careful storage and handling of lubricants are important. G: R. Rowland. Elec Ry J 64: 244-5 Ag 16 '24

Casings and lubrication for silent chain drive. P. Wheeler. il Brick & Clay Rec 65:25-7 Jl 8 '24; Same. Concrete 25:sup13-14 Jl '24

Castor blend ideal lube. G: S. Partridge. Pet Age 15:34 Je 1 '25; Same cond. Nat Pet N 17:76 Jl 1 '25

Castor oil as lubricant. J. B. Rathbun. Pet Age 15:48 Je 15 '25

Centrifugal separation. L. D. Jones. Chem & Met Eng 29:883-4 N 12 '23

Container for distributing rock drill lubricants. diag Eng & Min J 120:140 Jl 25 '25

Critical bearing pressures. G. B. Upton. Mech Eng 47:941-2 N '25

Cylinder lubrication. J. B. Rathbun. Pet Age 15:61+ Ja 15 '25

Decolorization of lubricating oils by the contact method. A. R. Moorman. Nat Pet N 17: 84+ Jl 22 '25

Density of a lubricating oil at temperatures from -40° to +20° C. H. K. Griffin. diag Ind & Eng Chem 17:1157-8 N '25

Design and performance of complete cylindrical bearings from mathematical theory of lubrication. G. B. Upton. Sibley J 38: 56-60+, 97-100 Mr-Ap '24

Does the zn/p function fit the facts? A. E. Becker. diags Ind & Eng Chem 16:856-7 Ag '24; Discussion. 16:975 S '24

Economics of lubrication—suggestions for a research program. W: F. Parish. Nat Pet N 16:59-60+ My 7 '24

Essentials of lubricating engineering. A. F. Brewer. il Ind Management 68:145-51 S '24

Experiences with multiple feed, high pressure lubrication. L: R. Humpton. il Blast F & Steel Pl 12:236-7 My '24

Film theory in lubrication. J: B. Rathbun. Pet Age 16:59-60 N 1 '25

Find pressure helps in filtering lubes and washing filters. P. Truesdell. diags Nat Pet N 17:73-4+ Ag 5 '25

Fortschritte im voltolverfahren. Zeit Ver Deutsch Ing 68:1157-8 N 1 '24

Gearing and gear lubricants. A. F. Brewer. il Ind Management 68:18-24 Jl '24

Graphical study of journal lubrication. H. A. S. Howarth. Mech Eng 46:77-9; Discussion. 79-80 F '24

Handbook of industrial oil engineering. J: R. Battle. 2d ed., rev. 1141p Lippincott '23

Handling and storing lubricants. diag Textile World 65:2319+ Ap 5 '24

High-pressure-bearing research; abstracts. L: Illmer. Am Mach 61:959-62 D 18 '24; Mech Eng 47:109-10; Discussion. 113-14 F '25

How $6,929.06 has been saved in the purchase, storage and distribution of lubricants. H: Freeman. il Ind Eng 82:475-7 O '24

Improved lubricating system for rod bearings. diags Coal Age 25:711-12 My 8 '24

Inspection routine and methods of controlling industrial lubrication. K. Richards. il Ind Eng 82:368-72+ Ag '24

Journal lubricating system. il diag Ry Age 76:1783 Je 21 '24; Same. Ry Mech Eng 98: 505-6 Ag '24

Launching lubricating materials. H. H. Thayer. Marine Eng 29:44-5 Ja '24

Lengthening the life of the chain drive. A. F. Brewer. il Ind Management 68:266-72 N '24

Lubricants and lubrication. R. W. L. Clarke. Inst Pet Tech J 10:612-18 S '24

Lubricants and lubrication. J. Duguid. Mech Eng 47:887-94 N '25

Lubricating Diesel engines and auxiliary machinery. Marine Eng 29:298-300 My '24

Lubricating oils. J. B. Rathbun. Pet Age 13: 67, 69 My 15 '24; 15:63 F 1; 57 My 15 '25

Lubricating power equipment. Textile World 64:3323+ D 1 '23

LUBRICATION and lubricants—*Continued*
Lubrication. M. J. O'Connor. Ry Mech Eng 97:824-5; Discussion. 825-6 D '23
Lubrication; abstracts. L. R. Christy. Ry Mech Eng 99:627-9 O '25; Ry R 77:677-8 O 31 '25; Discussion. Ry Mech Eng 99:708 N '25
Lubrication—and the operating engineer. G. B. Vroom. Marine Eng 30:224-5 Ap '25
Lubrication in relation to economical production. Cassier's Ind Management 11:295-6 My 29 '24
Lubrication in steel and cement mills. J. A. Marland. W Soc E J 30:254-9 Je '25; Same. Concrete (cement mill sec) 27:39-42 Ag '25
Lubrication in the steel industry. il Blast F & Steel Pl 12:377-80 Ag '24
Lubrication in the steel industry. A. F. Brewer. Iron Age 114:434-7 Ag 21 '24
Lubrication of ball bearing hanger boxes. Ind Eng 83:351-2 Jl '25
Lubrication of gas works plant. W. T. Kenshole. Gas J (Lond) 165:490-1 F 27 '24; Discussion. 165:567-8 Mr 5 '24
Lubrication of grooved bearings. T. E. Stanton. Iron Age 113:505 F 14 '24
Lubrication of hot dies. W: H. Potter. Am Mach 60:174 Ja 31 '24
Lubrication of machine tools. A. F. Brewer. Am Mach 62:621-3 Ap 16 '25
Lubrication of refrigerating machinery. Refrig Eng 11:304-6 F '25
Lubrication of refrigeration compressors other than ammonia. A. F. Brewer. Power 59:524-5 Ap 1 '24; Same. Refrig Eng 10:407-8 My '24
Lubrication of the cement kiln. G. S. LaForge. Concrete 24:sup59 Ap '24
Lubrication; the selection of oils for electrical power plant. Electrician 92:661 My 30 '24
Die mechanische schmierung der eisenbahnachsen. W. Friedrich. il diags Zeit Ver Deutsch Ing 68:877-9 Ag 23 '24
Method of relining and oiling hubs of loose pulleys. diags Power 59:378 Mr 4 '24
Methods for applying lubricants. diags Power Pl Eng 28:560-2 My 15 '24
Methods of machine tool design. A. L. DeLeeuw. diags Am Mach 61:799-801 N 20 '24
Modernizing sets of old-type gear reductions with oil circulating system. M. C. Cockshott. plan Ind Eng 83:550-1 N '25
Nature of lubrication in engineering practice. T. E. Stanton. Sibley J 37:194-6 N '23; Excerpt. Elec Ry J 63:443 Mr 22 '24
New vacuum refining process makes narrow cut lub oils. P. Truesdell. diag Nat Pet N 16:64+ S 10 '24; Abstract. Mech Eng 46: 708-9 N '24
Notes on the theory of lubrication, with particular application to the Michell thrust and journal bearings; abstract. J. Ward. Mech Eng 46:423-4 Jl '24
Oil-flow in complete journal bearings. D. P. Barnard, 4th. diags Soc Auto Eng J 17:205-9 Ag '25; Discussion. 17:459-60 N '25
Oil lubrication of propeller tail shafts. W. G. Esmond. diag Marine Eng 29:638-9 N '24
Oil-ring design. H. A. Freeman. diags Mach 31:687-90 My '25
Oil system specially designed for municipal pumping plant. H. R. Cady. il diags Power 60:203-5 Ag 5 '24
Physical properties of lubricants. E. A. Evans. Inst Pet Tech J 9:380-4 O '23
Power plant chemistry; abstract. W. M. Miles. Elec R (Lond) 95:37 Jl 4 '24
Prime movers and their lubrication. il Power Pl Eng 28:739-42 Jl 15 '24
Proper lubrication of modern industrial bearings. A. F. Brewer. il Ind Management 67: 177-83 Mr '24
Properties of a good lubricant. W: Lee. Chem Age (Lond) 9:513 N 10 '23
Recent trends in the practice of lubricating prime movers. C: H. Bromley. il diags plans Refrig Eng 11:159-64; Discussion. 164+ N '24
Reclamation of lubricating oil from used crank-case oil. F. H. Rhodes and H. J. Haon, jr. Ind & Eng Chem 17:25-7 Ja '25
Reports on the progress of naphthology during 1924; lubricants, lubrication and insulating oils. R. W. L. Clarke. bibliog Inst Pet Tech J 11:337-42 Ag '25
Rivett forkup oiling system. il Am Mach 63: 678-9 O 22 '25
Safe en masse lubrication. il diag Coal Age 27:31-2 Ja 1 '25
Selecting forced-feed and motor-cylinder oils for navy use. J. G. O'Neill. Power 62:171-2 Ag 4 '25
Selection of chain lubricants. Mach 30:430 F '24
Skin friction. L. Bairstow. Roy Aeronautical Soc J 29:3-5 Ja '25; Abstract. Engineering 118:742 N 28 '24
Specific heats of lubricating oils. E. H. Leslie and J. C. Geniesse. diag Ind & Eng Chem 16:582-3 Je '24
Standardization of textile mill lubrication. A. F. Brewer. Textile World 66:3295-7; 67:69-71, 1673+, 2343+, 3139+, 3711+; 68:75+, 663+, 1345+ D 6 '24, Ja 3, Mr 7, Ap 4, My 9, Je 6, Jl 4, Ag 1, S 5 '25
Stopcock lubrication and an improved lubricant. E. G. R. Ardagh and A. L. Davidson. Can Chem & Met 9:137 Je '25
Studies on lubricating oils. W. J. Wilson and B. C. Allibone. Inst Pet Tech J 11:177-90 Ap '25
Viscosity of lubricants at high pressure and temperature. M. D. Hersey. Soc Auto Eng J 14:188 F '24
What the lubrication engineer has done for power plant maintenance. A. F. Brewer. il diags Ind Management 66:281-9 N '23
Why do motors overheat? J. B. Rathbun. Pet Age 13:62+ My 15 '24

See also Air compressors—Lubrication; Automobile engines—Lubrication; Automobiles—Lubrication; Bearings; Diesel engines—Lubrication; Electric motors—Lubrication; Electric motors, Railway—Lubrication; Gas and oil engines—Lubrication; Graphite; Locomotives—Lubrication; Lubricating greases; Lubricators; Marine engines—Lubrication; Oil reclamation; Semi-Diesel engines—Lubrication; Silk machinery—Lubrication; Steam engines—Lubrication; Steam turbines—Lubrication; Stokers, Mechanical—Lubrication; Street cars—Lubrication

Specifications

Concerning the value and use of characteristics of lubricating oils; abstract. Mech Eng 46:635 O '24
Government board approves changes in federal specifications. Nat Pet N 16:81+ F 13 '24
Greases-solid oils. J. B. Rathbun. Pet Age 15:57 My 1 '25
Lubricating oils. J. B. Rathbun. Pet Age 14: 61+ Ag 15 '24
United States government specification for lubricants and liquid fuels and methods for testing. U S Bur Mines Tech Pa 323A:9-29 '24

Terminology

About flash, fire, etc; explanation of different terms used in marketing. Pet Age 16:38 Jl 15 '25
Lube units you should know. J: B. Rathbun. Pet Age 16:26+ Ag 15 '25

Testing

Comments on the measurement of consistency, with particular application to greases and petrolatum. R. E. Wilson and F. R. Baxter. Am Soc T M Pro 23 pt 2:453-5 '23
Investigation of the critical bearing pressures causing rupture in lubricating-oil films. L. N. Linsley. il diag Mech Eng 47:110-13 F '25; Abstracts. Automotive Ind 51:1084-5 D 25 '24; Am Mach 61:962 D 18 '24; Discussion. Mech Eng 47:113-14 F '25
Lubricating oil tests; how to make them—what they mean. H. L. Kauffman. Nat Pet N 16:34+ S 10; 73-4+ S 24; 63-4+ O 8 '24
Machine for comparing the lubricating properties of oils at high pressures. C. F. Marvin, jr. il Soc Auto Eng J 17:287-9 S '25

LUBRICATION and lubricants—Testing—*Cont.*
Mechanism of lubrication; the effect of oiliness on the behavior of journal bearings. D. P. Barnard, H. M. Myers and H. O. Forrest. Ind & Eng Chem 16:347-50; 17:102 Ap '24, Ja '25
Methods for testing lubricants and liquid fuels. diags U S Bur Mines Tech Pa 323A: 30-89 '24
Practical test by oxidation to determine the stability of mineral oil. T. S. Sligh, jr. diag Power 60:551 S 30 '24
Real test for lubes now; Wasson motor check. J: B. Rathbun. Pet Age 14:45+ N 15 '24
Report of sub-committee XI on emulsification. Am Soc T M Pro 24 pt 1:531-7 '24
Sell more lubricants by testing crankcase dilution. C. M. Larson. il charts Pet Age 13:18+ Je 15 '24
Service tests of lubricants in internal combustion engines. W. S. James. il Am Pet Inst Bul 4:132-41 D 31 '23
Some experiments in the lubrication of commercial-vehicle engines. H. D. Nickinson. Automobile Eng 14:24-9 Ja '24; Abstract. Automotive Ind 50:26-8 Ja 3 '24
Tentative method of test for steam emulsion of lubricating oils. diag Nat Pet N 15:51+ N 21 '23
Test of lubricating oils. 17p U.S. Bur. of engineering, Washington '24
Tests for lubricating oils. Power Pl Eng 28: 853-4 Ag 15 '24

LUBRICATION and lubricants (cutting and grinding)
Choosing metal cutting oil. J. B. Rathbun. Pet Age 14:80+ O 1 '24
Lubricating and cooling the cutting tool. A. F. Brewer. il diags Ind Management 69: 197-205 Ap '25
Miscellaneous oils; grinding lubricants. J. B. Rathbun. Pet Age 15:71 F 15 '25
Physical and chemical points of oils. Brass W 21:217 Je '25
Some suggestions for builders and users of machine tools. T: Nadin. Am Mach 60: 211-12 F 7 '24; Same. Soc Auto Eng J 14: 134-5 F '24; Same cond. Cassier's Ind Management 11:322 Je '24; Discussion. Soc Auto Eng J 14:614-16 Je '24
Tool engineering. A. A. Dowd and F. W. Curtis. diags Am Mach 59:613-15; 60:57-9, 135-7, 259-61 O 25 '23, Ja 10, 24, F 14 '24

LUBRICATORS
Bowen lubrication system. il Mach 32:154 O '25
Bubb locomotive cylinder lubricator. il diag Ry Mech Eng 98:56-7 Ja '24
Device for filling grease cups. C. G. Williams. diag Am Mach 62:895-6 Je 4 '25
Edna brass co. locomotive force feed lubricator. il Ry Age 78:1472 Je 13 '25; Same. Ry Mech Eng 99:660 O '25
Ehrhart decarbonizer for locomotives. il Ry Mech Eng 99:590 S '25
Keystone safety lubricating system. il Am Mach 62:789 My 14 '25
Lubrication and centrifugal force. il diag Cassier's Ind Management 11:141 Mr 6 '24
Lubricator applications to hydraulic pressure pump, to vacuum pump and to large boring mills. il Iron Age 115:1178-9 Je 18 '25
Mechanical forced feed lubricators. Power Pl Eng 28:447 Ap 15 '24
Pneumatic flange oiler. il Ry Age 76:841-2 Mr 29 '24
Schlack's force feed lubricator. diag Ry Mech Eng 99:662 O '25
Vacuum-controlled lubricating device. il Bus Transportation 4:242 My '25
See also Grease guns

LUCKIESH, M.
Biography of M. Luckiesh. por Illum Eng Soc 20:817-18 O '25

LUDWIGITE
Ludwigite from Peru. M. G. Edwards. Am J Sci 5th ser 7:486-8 Je '24

LUKENS steel company
132 years without losing a customer. C: L. Huston. il System 47:461-6+, 611-15+, 757-61+ Ap-Je '25

LUMBER
Committee urges railroads to conserve forest products. Ry R 76:931-4 My 23 '25; Ry Age 78:1276-7 My 23 '25
Conservation of timber by use of substitutes. Ry R 75:990-2 D 20 '24
Construction uses of short lengths of lumber. Eng & Contr (Bldgs) 64:225-6 Jl 22 '25
How the consumer wastes millions of feet of lumber annually. Eng & Contr (Bldgs) 60: 1157 N 28 '23
Lumber and its uses. R. S. Kellogg. 3d ed., rev. 370p U.P.C. book co. '24
Quarter-sawed. diag Am Arch 127:556 Je 17 '25
Report of the A.R.A. committee on forest products. il Ry Age 76:1689-91; Discussion. 1691-2 Je 18 '24
Short length lumber utilization. Am Arch 128: 140 Ag 12 '25
See also Hard woods; Lumbering; Timber; Wood

Grade marking
Grade-marked lumber adopted as basic policy of Southern pine association. Manuf Rec 87:95-9 Ap 2 '25
Grade marking of lumber and timber. Ry R 76:652 Ap 4 '25; Eng N 94:872 My 21 '25
What the grade marks mean. Arch & Bldg 57:51 Je '25

Prices
Lumber prices. Survey of Cur Business 44: 27-8 Ap '25
Prices of yellow pine lumber, Chicago; tabulation. D. H. Maury. Eng & Contr (W W) 61:1042 My 14 '24

Specifications
Report of sub-committee I on specifications for timber. Am Soc T M Pro 24 pt 1:594-610 '24

Standards
Battle of the thirty-second. W. Du B. Brookings. il Nation's Business 12:20-2 F '24
Lumber standardized and framed to fit. diag Eng & Contr (Bldgs) 61:1416 Je 25 '24
New lumber standards in use. Bradstreet's 53: 474-5 Jl 18 '25
Recommended lumber standards now on trial. Ry Age 77:205 Ag 2 '24
Retain present standard thicknesses of lumber. Eng N 94:786 My 7 '25
Simplified practice recommendations on lumber. Mech Eng 46:167-9 Mr '24
Standardization of lumber. Am Inst Arch J 13:194, 235-6 My-Je '25
Standardizing one-inch lumber. Eng N 93: 207, 393, 476, 518 Ag 7, S 4, 18-25 '24

Testing
Lumber tests. diags Eng & Contr (Bldgs) 64: 191-2 Jl 22 '25
Tentative methods for conducting static tests of timbers in structural sizes. il diags Am Soc T M Pro 24 pt 1:976-94 '24
Tentative methods of testing small clear specimens of timber. il diags Am Soc T M Pro 24 pt 1:939-75 '24

Transportation
Freight rates on lumber, carloads, (and articles taking same rates) the lumber rate book. Southern hardwood traffic assn., Memphis, Tenn. '24
Order reducing rates on logs held invalid. Ry Age 78:1107 My 2 '25

LUMBER cars
50-ton capacity steel frame logging car. il Ry R 73:853-4 D 15 '23
Interesting design of logging car; use of reclaimed material. il diags Ry R 75:92-4 Jl 19 '24

LUMBER drying

Causes of surface checks in wood in varnish-drying rooms. H. D. Tiemann. il Soc Auto Eng J 15:431-6 N '24; Abstract. Automotive Ind 51:764 O 30 '24; Discussion. Soc Auto Eng J 16:523-7 My '25

Lumber handling in an automobile-body plant. B. Nagelvoort and T: D. Perry. il plan Mech Eng 46:472-6 Ag '24; Same cond. Automotive Ind 50:1321-4 Je 19 '24; Discussion. Mech Eng 46:476-7 Ag '24

Mathematical theory of the drying of wood. F. Tuttle. J Fr Inst 200:609-14 N '25

New Boston L lumber storage and kiln. il plans Elec Ry J 64:989-91 D 13 '24

New wood-drying process by ozone. il Sci Am 130:335 My '24

Northern Pacific improves lumber seasoning facilities. il plans Ry Age 79:126-9 Jl 18 '25

Seasoning and preservation of timber. E. G. Blake. 132p Van Nostrand '24

LUMBER handling

Efficient lumber handling on Los Angeles building construction. Z. Witkin. plan Eng N 93:151-2 Jl 24 '24

Handling lumber in a hurry. il Sci Am 131:91 Ag '24

Lumber handling in an automobile-body plant. B. Nagelvoort and T: D. Perry. il plan Mech Eng 46:472-6 Ag '24; Same cond. Automotive Ind 50:1321-4 Je 19 '24; Discussion. Mech Eng 46:476-7 Ag '24

Lumber handling simplified; equipment that will save labor and money. T: D. Perry. il Management & Adm 9:229-32 Mr '25

See also Lumber storage

Safety devices and measures

Safety with lumber handling equipment. H. G. Wiberg. Nat Safety N 10:38 O '24

LUMBER mills

See also Planing mills; Sawmills

Power

One new industrial power plant replaces seven. C. B. Gorton and F. R. Innes. il diag plan Power Pl Eng 28:784-91 Ag 1 '24

LUMBER storage

Construction of a crib for piling lumber. D. A. Hampson. il Ind Eng 83:446 S '25

New Boston L lumber storage and kiln. il plans Elec Ry J 64:989-91 D 13 '24

LUMBER trade

Creating the shopping habit among prospective home owners. E. J. Welsh. il plans Bldg Age 46:140-2 N '24

Displaying building materials to advantage. il plan Bldg Age 46:104-5 D '24

Eliminating speculation in cross-arms. Elec W 85:429-30 F 21 '25

Helping dealers use their legs; creating lumber business by advocating repairs. G. A. Nichols. Ptr Ink 129:117-18+ O 9 '24

How creative selling opened a new channel of distribution; lumber dealers take to quantity selling of paint. A. Belden. Ptr Ink 127:41-2+ My 29 '24

How Weyerhaeuser sets its ideals by the mark of a man. W. S. Smith. il Forbes 16: 15-17+ Ap 15 '25

Merchandising ideas can help save our forests. Ptr Ink 129:95-6+ N 27 '24

National conference on utilization of forest products, Washington. Paper Tr J 79:21-3 N 27 '24

Paradox of lumber. W. Compton. Comm & Fin 14:1756-7 S 16 '25

Prize contest encourages workers to aid in developing an industry. D. G. Miller. Ptr Ink M 8:43-4+ Mr '24

Retail salesmen are eager to take this instruction course. Ptr Ink 129:79-80 O 30 '24

Why lumber bills will go higher; graphic presentation of our lumber supply. Brick & Clay Rec 64:944-5 Je 24 '24

World's timber position. Economist 101:488-9 S 26 '25

See also Lumber—Prices; Lumbering

Advertising

Advertising aids in the solution of lumber industry's problems. J. True. Ptr Ink 126: 89-90+ Ja 3 '24

Employing printed salesmanship to merchandise homes. R. C. Kollenborn. Ptd Salesmanship 46:141-4 O '25

Making people fight for a home. V. E. Coulter. Ptr Ink 127:146+ Je 19 '24

Southern lumber dealer finds the way to sell the thing beyond. Ptr Ink 127:133-4 Ap 10 '24

Winning publicity for the dealer. C. J. Welsh. il Bldg Age 47:112-13 Mr '25

Statistics

Hardwood lumber and furniture, 1922-1924. Survey of Cur Business 30:102-11 F '24

Hardwood lumber stocks and unfilled orders. Survey of Cur Business 44:28 Ap '25

Tables, calculations, etc.

Click's veneer tables. A. G. Click. 2d ed. 151p Edwards & Broughton ptg. co., Raleigh '23

Austria

Austrian and Czechoslovak lumber and woodworking industries. C. H. Foster, W. A. Foote and C. M. Ravndal. U S Bur For & Dom Com Trade Information Bul 196:1-16 '24

Belgium

American lumber in Belgium. A. M. Oxholm. U S Bur For & Dom Com Trade Information Bul 361:1-45 '25

France

French lumber market. A. H. Oxholm. il diags maps U S Bur For & Dom Com Trade Promotion Ser 19:1-383 '25

Great Britain

Empire timbers in the British market. Economist 100:488-90, 589-90 Mr 14, 28 '25

Our timber imports during first half of 1924. Economist 99:262-3 Ag 16 '24

Timber imports and prices. Economist 100: 1231-2 Je 20 '25

Timber imports in 1923. Economist 98:462-3 Mr 1 '24

Netherlands

American woods in the Netherlands. A. H. Oxholm. U S Bur For & Dom Com Trade Information Bul 248:1-29 '24

Lumber market in the Netherlands. A. H. Oxholm. il map U S Bur For & Dom Com Trade Promotion ser 4:1-233 '25

Philippine Islands

Lumber industry of the Philippine Islands. J: A. Fowler. il map U S Bur For & Dom Com Trade Promotion Ser 24:1-43 '25

Southern states

Past, present and future of forestry and lumbering in the South. B. A. Johnson. Manuf Rec 86:314-25 pt 2 D 11 '24

Sweden

Die schwedische eisen- und holzindustrie. H. von Eckermann. il Zeit Ver Deutsch Ing 68:330-4 Ap 5 '24

Switzerland

American lumber in Switzerland. A. H. Oxholm. U S Bur For & Dom Com Trade Information Bul 353:1-21 '25

Texas

Wages and industrial conditions in the lumber industry of Texas. Monthly Labor R 18:958-9 My '24

United States

American lumber industry. N. C. Brown. 279p Wiley '23

America's lumber industry—and how it buys. il Sales Management 8:819-20 My 30 '25

Census bureau's report on 1923 lumber production. Comm & Fin Chr 120:521 Ja 31 '25

LUMBER trade—United States—*Continued*
Exporting American lumber. il World's Markets 15:11-12+ Mr '24
July lumber output. Comm & Fin Chr 119: 1232 S 13 '24
Lumber cut for 1923 is largest since 1914. Comm & Fin Chr 118:2757 Je 7 '24
Lumber feels the pinch. diags Brick & Clay Rec 67:467-9 S 29 '25
Lumber movement. Published in weekly numbers of Commercial and financial chronicle
Lumber production for year 1923. Comm & Fin Chr 119:2945-6 D 27 '24
Lumber production in 1923 and 1924. Comm & Fin Chr 120:520-1 Ja 31 '25
Lumber production in 1923 shows a fifteen per cent increase over 1922. Comm & Fin Chr 118:255 Ja 19 '24
Lumber trade. Moody's Inv Serv 16:17-20 Ja 10 '24
Lumber trade prospects. Bradstreet's 52:487 Jl 26 '24
Lumberman decides to settle down. W. Compton. il Nation's Business 13:17-19 Ap '25
National forest 1923-4 sales break records. Eng N 94:109 Ja 15 '25
New methods and machinery lessening labor and losses in lumbering. E. L. D. Seymour. il Dun's Int R 44:37-41 D '24
1925 lumber business surpasses 1924. Comm & Fin Chr 120:2487 My 16 '25
Oak's position in our exports. A. H. Oxholm. map Am Ind 25:28-9 Je '25
Smaller lumber production in 1924—half of country's output comes from the South. Manuf Rec 88:81 N 5 '25
West coast lumbermen's association weekly review of lumber industry. Published in weekly numbers of Commercial and financial chronicle
Yellow pine and Douglas fir lumber. Survey of Cur Business 48:64 Ag '25 [continued quarterly]

LUMBER workers
Industrial relations in the West coast lumber industry. C. R. Howd. U S Bur Labor Statistics Bul 349:1-120 '24; Abstract. Monthly Labor R 18:758-9 Ap '24
Wages and industrial conditions in the lumber industry of Texas. Monthly Labor R 18: 958-9 My '24
Wages in sawmills and logging camps in Oregon, Washington, and Idaho, 1924. Monthly Labor R 20:530-2 Mr '25

LUMBERING
Compare standard and narrow gage for logging railroads. M. W. Stark. Eng N 94:442 Mr 12 '25
Logging machinery used on the Pacific coast. W: C. Shaw. Mech Eng 47:913-14 N '25
Logging; the principles and general methods of operation in the United States. R. C. Bryant. 2d ed., rev. 556p Wiley '23
Lumberman decides to settle down. W. Compton. il Nation's Business 13:17-19 Ap '25
Modern logging railway practice. L. M. Brooks. Eng N 93:145 Jl 24 '24
Overhead-cableway method of logging. S. Miller. il diags Mech Eng 47:527-34 Jl '25
Romances of industry—lumber. W. Compton. il Am Ind 25:13-17 F '25
Steam logging. J. W. Gill. il diags Mech Eng 47:815-20 O '25
Transportation of logs on sleds. A. M. Koroleff. Paper Tr J 81:45 Ag 13 '25

See also Electricity in lumbering; Lumber handling; Lumber trade

Safety devices and measures

American logging and sawmill safety code. 140p U.S. Bur. of standards, Washington '24
Logging safety in the Pacific Northwest. G: M. Aitken. il Nat Safety N 10:5-7+ N '24
Practical uses of the logging and sawmill safety code. J: A. Dickinson. il Nat Safety N 10:35-8 D '24
Safety in the forest products industry. E: B. Wight. Nat Safety N 8:47-8 O '23

LUMINESCENCE
Active modification of nitrogen. M. N. Saha and N. K. Sur. Philos Mag 6th ser 48:421-8 S '24
Lamp efficiency of cold light. E. Q. Adams. diag Illum Eng Soc 20:392-8 Ap '25
Luminescence in the Ingleside calcites affected by acids. W: P. Headden. Am J Sci 5th ser 8:509-17 D '24
Luminescence of Grignard compounds: spectra and brightness. R. T. Dufford, D. Nightingale and S. Calvert. Am Chem Soc J 47:95-102 Ja '25
Luminescence of nitrogen, argon and other condensed gases at very low temperatures. J. C. McLennan and G. M. Shrum. J Fr Inst 198:434-6 S '24
Luminescence of titanium oxide. E. L. Nichols. Phys R 22:420-4 N '23
Luminescence or cold light. W. S. Andrews. il Gen Elec R 28:103-8 F '25
New variety of spectra. W: H. McVicker, J. K. Marsh and A. Stewart. Philos Mag 6th ser 48:628-36 O '24
Photoluminescence of flames. E. L. Nichols and H. L. Howes. diags Phys R 22:425-31; 23: 472-7 N '23, Ap '24
Some cases of polymorphic transformation energies. A. Hare. Philos Mag 6th ser 48: 412-21 S '24
Spectroscopic study of the cathodo-luminescence of fluorite. F. G. Wick. Phys R 24:272-82 S '24
Spectroscopic study of the luminescent oxidation of phosphorus. H. J. Emeléus and W: E. Downey. diag Chem Soc J 125:2491-5, pl 1 D '24
Tesla-luminescence spectra; some hydrocarbons containing a single benzene nucleus. W: H. McVicker, J. K. Marsh and A. W. Stewart. Chem Soc J 125:1743-50 S '24
Tesla-luminescence spectra; some polynuclear hydrocarbons. W: H. McVicker, J. K. Marsh and A. W. Stewart. Chem Soc J 127:999-1006 My '25
Theory of the decay of alpha ray luminescence. E. E. Witmer. Phys R 24:639-43 D '24

See also Fluorescence; Phosphorescence; Phosphorus

LUMINOSITY
Effect of temperature on the luminosity of radium compounds. J. A. Rodman. Phys R 23:478-87 Ap '24

LUMINOUS materials
Use of radium in buildings. W: H. Dey. il Am Arch 126:151-4 Ag 13 '24

LUNCH wagons
Lunch wagon becomes lunch car. E. J. Tierney. il Am Ind 25:27-30 Ja '25

LUNCHES
Serving a department's lunches in 10 minutes. Factory 32:834 Je '24

See also School lunches

LUNCHROOMS and cafeterias
Cafeteria etiquette. J. Broadhurst. il Nation's Health 7:342-3 My '25

Electric equipment

Electrical cafeteria at Salt Lake proves economy. il J Elec 55:258-9 O 1 '25

LUNCHROOMS and cafeterias, Employees'
Cafeterias prove wise investment for employers. R. J. Waldo. il Textile World 68:1469-70 S 12 '25
Equipment for an industrial cafeteria for 250 persons. Textile World 65:115 Ja 5 '24
Industrial cafeterias offer large appliance market. W: A. Dyer, jr. il Gas Age 56: 687+ N 7 '25
Lunch rooms for employees. 16p Metropolitan life insurance co., 1 Madison av., New York

Costs

Costs in 44 employees' lunchrooms. R. J. Waldo. il plans Management & Adm 9:337-42 Ap '25

LUNGS
Vital capacity of the lungs and its practical application. J. A. Myers. J Ind Hygiene 7: 25-42 [bibliog. p. 39-42] Ja '25

Dust diseases

Compensation for silicosis. F: L. Hoffman. Spectator 112:29+ My 15; 37 My 22 '24
Effects of dust inhalation upon metal grinders. Monthly Labor R 19:1154-6 N '24
Relation of organic dust to pneumonokoniosis. H. R. M. Landis. J Ind Hygiene 7:1-5 Ja '25; Abstract. Monthly Labor R 20:615-16 Mr '25
Silicosis; a modern factory health hazard. J. A. Britton. J Ind Hygiene 6:199-202; Discussion. 221-4 S '24
Size-frequency and identification of certain phagocytosed dusts. P. Drinker. il J Ind Hygiene 7:305-16 [bibliog. p. 315-16] Jl '25

LUPINE alkaloids
Lupine studies; isolation of *d*-lupanine from lupinus kingii (S. Watson). J. F. Couch. Am Chem Soc J 47:2584-7 O '25

See also Spathulatine

LUSTER
Lustre and its determination. I. Ginsberg. Textile Col 47:96-8 F '25
Lustre finishing upon linen piece goods. R. Sansone. il Textile Col 46:359-63, 428-30, 641-4; 47:28-31, 156-9 Je-Jl, O '24, Ja, Mr '25
Lustre, glaze and brightness in textiles. J: G. Robertson; J: R. Watkins. Textile Col 46:566-9, 698-700 O-N '24
Lustre of doubled yarns. A. Adderley and A. E. Oxley. il diags Textile Inst J 14:T361-74 N '23
Lustre of doubled yarns. A. E. Oxley. il Soc Dyers & Col J 40:135-8 My '24
Lustre of yarns and fabrics. A. Adderley. and A. E. Oxley. bibliog diags 4 pls Textile Inst J 16:T167-84 Je '25
Measurement of luster on textile materials. H. Schulz. diag Color Tr J 16:21-2 Ja '25
Measuring luster of fabrics. H. Schulz. diags Textile World 66:1569+ S 20 '24; Abstract. Soc Dyers & Col J 40:128-9 Ap '24
Metallic luster. W. D. Bancroft and R. P. Allen. J Phys Chem 28:588-610; 29:564-86 Je '24, My '25
Physical causes of the lustre in cotton. A. Adderley. diags Textile Inst J 15:T195-206 Ap '24
Practical measurements of sheen. H. S. Busby. diags Textile World 67:2313+ Ap 4 '25
Reflecton of light from lustrous materials. W. S. Denham and T: Lonsdale. il diags Textile Inst J 15:T453-63 O '24

See also Mercerizing

LUSTRITE corporation
We gave second youth to an old line. H. H. Riddleberger. Ptr Ink 132:17-19 S 3 '25

LUSTRON
Use of lustron as a decorating fiber. R. Little. Am Dyestuff Rep 14:51-4 Ja 26 '25

LUTHER, Hans
Germany's sound money Luther. R. C. Long. por Am Bankers Assn J 17:549-50 Mr '25

LUTIDINE
Nitro- and amino-ethoxylutidine. J: N. Collie and G. Bishop. Chem Soc J 127:962-4 My '25

LUTYENS, Edwin Landseer
Gold medal bestowed on Sir Edwin Landseer Lutyens. por Am Arch 127:440-2 My 20 '25
Sir Edwin Landseer Lutyens. C. Williams-Ellis and A. Williams-Ellis. il Am Inst Arch J 13:172-7 My '25

LYCH gates. See Lich gates

LYNCHBURG, Virginia
Engineering in the small city. il Eng N 94: 977-9 Je 11 '25
Lynchburg in old Virginia. G. Garrison. il Comm & Fin 13:1371+ Jl 16 '24

LYNDON institute, Lyndon Center, Vermont
Lyndon institute, Lyndon Center. il plans Am Arch 128:245-6 S 9 '25

LYNOXYN
Contribution to the chemistry of drying oils. G. W. Ellis. Soc Chem Ind J 44:486 O 9 '25

LYSINE
Synthesis of some possible precursors of lysine. C. S. Marvel and others. Am Chem Soc J 46:2638-42 D '24

LYSOL

Analysis

Analysis of lysol. A. H. Dodd. Soc Chem Ind J 43:93-6 Ap 11 '24

M

MACADAMIZED roads. See Roads, Macadamized

MACARONI
Romances of industry—macaroni. H: Mueller. il Am Ind 26:9-14 Ag '25
World trade in macaroni. Econ W n s 28:196 Ag 9 '24

Advertising

Finding the real competitor; macaroni manufacturer out to develop broader market at the expense of the potato. R. Crothers. Ptr Ink 128:89-90 Jl 31 '24

MACAULEY, Alvan
Every critical test a chance to move ahead—Macauley. O. D. Foster. por Forbes 14:311-13+ Je 7 '24

MACCABEES
Progress of this fraternal benefit association. Spectator 114:31 Mr 19 '25

MCCAY, LeRoy Wiley
American contemporaries. W: Foster. por Ind & Eng Chem 17:652-3 Je '25

MCCORMICK, Edward, 1871-
Edward McCormick—the undaunted. H. G. Atkinson. por Prof Eng 8:17 D '23

MCCRAY, Warren T.
Former governor of Indiana, convicted of using the mails to defraud and sentenced to ten years in the Federal prison at Atlanta. Comm & Fin Chr 118:2400-1 My 17 '24

MCCULLOH, J. S.
New president of New York telephone co. O. D. Foster, por Forbes 15:390-2+ Ja 1 '25

MACDONALD, Albert James, 1889-1924
Sketch. por Arch Forum 41:sup48-9 S '24

MACDONALD, Ramsay
Ramsay MacDonald's socialism. S. Bell. Comm & Fin 13:2371 D 10 '24

MCFADDEN bill. See Banking law—McFadden bill

MCGARRAH, Gates W.
Portrait. Bankers M 109:552 O '24

MCGRAW award
First James H. McGraw award presented, certificates bestowed for contributions to advancement of contractor-dealer industry. Elec W 86:670 S 26 '25

MCGRAW-HILL company
High intensity illumination; McGraw-Hill company's offices and plant. il diags Elec W 84:943-9 N 1 '24

MCGREGORY, Joseph Frank
Sketch. E. Ellery. por Ind & Eng Chem 16: 530 My '24

MACHADO y Morales, Gerardo, 1873-
Growing Pearl of the Antilles and its new president. M. Gonzalez. por Am Ind 25:11-12 My '25
President of Cuba. Am Ind 25:45 Je '25

MACHINE guns
Machine-gunning auto bandits. il Sci Am 130: 251 Ap '24

MACHINE shop management
Applying machine shop methods to a woodworking job. D. A. Hampson. Ind Management 67:52-5 Ja '24

MACHINE shop management—*Continued*
Building tractors under scientific management. G: D. Babcock. Management & Adm 8:377-82 O '24
Classification of locomotive repair shops. G: Armstrong. diags plan Ry Mech Eng 98:41-6 Ja '24
Computing the cost of replacing a machine. L. L. Thwing. Am Mach 60:290 F 21 '24
Cooperation between machine shop and foundry. J. P. Glynn. Mach 31:13 S '24
Costs multiplied by old machines. F. A. Scott. Iron Age 115:1412 My 14 '25
Design, manufacture, and production control of a standard machine. R. E. Flanders. il diags plans Mech Eng 46:873-8 D '24; Same. Iron Tr R 75:1573-8 D 11 '24; Same. Am Mach 61:881-8 D 4 '24; Discussion. Mech Eng 47:334-8 My '25
Diversified activities are essential to success in commercial machine shop work. H. B. Sabin and O. C. Sabin. il Iron Tr R 76:621-4 Mr 5 '25
Does it pay to install modern shop machinery? C. A. Shaffer. il Ry Mech Eng 98:325-8 Je '24
A dollar saved is a dollar earned. il Iron Tr R 76:154-6 Ja 8 '25
Economic analysis of machine shop operations. A. L. De Leeuw. diag Am Mach 60: 807-9, 843-6, 891-3 My 29-Je 12 '24; Same cond. Mech Eng 46:335-8+ Je '24; Excerpts. Automotive Ind 51:148-53 Jl 17 '24; Discussion. Mech Eng 46:480-1 Ag '24
Economical machining of single pieces. A. A. Dowd. il Iron Age 113:989-91 Ap 3 '24
Effective repair part schedules. J: H. Ames. Management & Adm 9:525-6 Je '25
Getting the best men in the machine business. J: R. Godfrey. Am Mach 60:781-2 My 22 '24
Getting the most out of your machine tool dollar. J. A. Smith and others. Am Mach 62:409-11, 521-2, 719-22, 793-4, 907-9; 63:1-2, 175-6, 255-6, 417-19, 917-20, 995-7 Mr 12, Ap 2, My 7, 21, Je 11, Jl 2, 30, Ag 13, S 10, D 10-17 '25; Discussion. 62:740 My 7 '25
Graphical charts as an aid to time study. E. C. Van Orsdell. diags Ind Management 70: 141-9 S '25
Group premium for an automatic screw machine department. L. J. Houlihan. Management & Adm 10:281-4 N '25
Grouping machines economically. H. M. Groff. Mach 30:583-6 Ap '24
Handling the jobbing order. E. W. Leach and J. F. Koch. Am Mach 61:603-7 O 16 '24
Home-made complaint. F. M. A'Hearn. Am Mach 62:467-9 Mr 19 '25
How much are inefficient machines costing you? K. H. Condit. Am Mach 61:451-2 S 18 '24
How you can find lost time. L. M. Francis. il Am Mach 60:475-7 Mr 27 '24
Idle capital in the machine shop. A. Easthope. Ind Management (Lond) 10:244-5, 272-5, 300-2, 328 N 1-D 13 '23
It pays to make the job easy for the workman. L. C. Morrow. il Am Mach 61:11-16 Jl 3 '24
Job work manufacturing problems. E. W. Leach and J. F. Koch. Am Mach 61:411-13 S 11 '24
Keeping promise is important factor in commercial machine work. H. B. Sabin and O. C. Sabin. Iron Tr R 76:690-2 Mr 12 '25
Machine-tool arrangement for processing parts. H. H. Edge. il Am Mach 63:759-61 N 12 '25
Mechanical engineering of management in the metal-working trades. R. T. Kent. Mech Eng 46:272-3+ My '24; Same cond. Am Mach 59:839-40 D 6 '23
Method of securing co-operation of operators when making speed changes. D. A. Hampson. il Ind Eng 83:102-3 F '25
Minimizing cost on new production. C: B. Johnson. Ind Management 67:229-30 Ap '24
Moving the machines to the work in the shops of the General electric company. il Sci Am 132:244 Ap '25
Net profits from modern equipment. F. A. Scott. il Iron Age 115:957-61 Ap 2 '25
New methods of production planning that make heavy stocks unnecessary. Factory 32:480-2+ Ap '24
One machine per man per day. E. F. Ross. il plan Iron Tr R 76:745-8+ Mr 19 '25
Problem of production. E. J. Guillemette. Ind Management 68:163-4 S '24
Reducing idle machine time by prompt repair service. E. F. Ross. Iron Tr R 76:631 Mr 5 '25
Reducing production costs; replacing machine tools. H. Varley. Cassier's Ind Management 11:437-40 O '24
Reducing shop cost in the engineering department. J. A. Davis. diags Am Mach 61: 761-3 N 13 '24
Returned goods in the jobbing plant. E. W. Leach and J. F. Koch. Am Mach 61:757-9 N 13 '24
Setting machine tools for short jobs. A. A. Dowd. diags Iron Age 114:74-7 Jl 10 '24
Some notes on British methods of continuous production. F. G. Woollard. il diags plan Automobile Eng 15:85-93 Mr '25; Excerpt. Automotive Ind 52:940 My 28 '25
Suggestions for improving shop management. F. J. Borer. Ry Mech Eng 98:39-40 Ja '24
That repair order! H: S. Riggs. il Am Mach 59:933-8 D 27 '23
Think of your scrap in terms of productive labor. L. C. Morrow. Am Mach 63:41-4, 139-42 Jl 9, 23 '25
Time setting in a machine tool plant. M. A. Lee and D. Vandevate. Ind Management 69:152-6 Mr '25
Time standardisation of workshop operations. T. Pilkington. 253p Pitman '25
Tool salvage. L. A. Churgay. il Soc Auto Eng J 15:455-60 N '24; Same, without tables. Am Mach 61:893-5 D 4 '24; Discussion. Soc Auto Eng J 16:458-60 Ap '25
What about those high-priced tools? A. L. Greene. Factory 35:210-11 Ag '25
What becomes of the chips? C. J. Priebe. il Am Mach 60:361-3 Mr 6 '24
When are tools and patterns obsolete? F. M. Kimball. Elec W 83:1354-5 Je 28 '24
When should old machine equipment be replaced? W. L. Carver. Automotive Ind 50: 906-9 Ap 24 '24
Where to look for net profits. F. A. Scott. il Am Mach 62:869-72 Je 4 '25
Who decides machine purchases? T. Berna. il Iron Age 116:413-14 Ag 13 '25
Work without superintendents. H. R. Simonds. il Iron Tr R 74:548-50 F 21 '24
Workable production control system. E: Davis. il Am Mach 60:911-14 Je 19 '24

See also Assembling methods; Electric railroads—Shops; Industrial management; Locomotive shops; Machine shop practice; Machine shops—Employees; Mechanical handling; Railroads—Shops; Routing systems; Tool rooms

MACHINE shop practice
Accuracy in machining shouldered work. A. A. Dowd. diags Mach 30:590-1 Ap '24
American locomotive company's methods of machining driving boxes. L. C. Morrow. il Am Mach 61:715-17 N 6 '24
Applying automobile methods to building washing machines. F. H. Colvin. il Am Mach 62:447-52 Mr 19 '25
Applying production methods to the radio head set. R. F. Yates. il Am Mach 59:755-6 N 22 '23
Ball bearings in the making. il Am Mach 62: 757-61, 799-802; 63:11-14 My 14-21, Jl 2 '25
British method of building axles. A. J. Aiers. il diags Am Mach 60:421-3 Mr 20 '24
British standard limits and fits for engineering. 33p Pub. for British eng. standards assn. by C. Lockwood & son, London '24
Building Diesel oil engines for Ford. L. S. Love. il Iron Age 114:977-82 O 16 '24
Building government airplanes. F. G. Steinebach. il Iron Tr R 74:665-70+ Mr 6 '24
Building monotype machines. C: O. Herb. il diags Mach 32:1-5 S '25

MACHINE shop practice—*Continued*

Building starters for aeronautical motors. P. T. Ash. il diag Am Mach 62:463-5 Mr 19 '25

Building sugar machinery in the Farrel foundry. il Am Mach 62:382-3 Mr 5 '25

Building the housings for the Sheldon truck axle. F. H. Colvin. il Am Mach 59:715-18 N 15 '23

Building vertical oil engines. F. R. Daniels. il diag Mach 30:247-52 D '23

Close work on a cast iron bushing. D. T. Hamilton. il Am Mach 60:915-17 Je 19 '24

Con-rod line at Waukesha. W: Thiel and H. O. Schultz. il Am Mach 62:301-4 F 19 '25

Constructing automobile radiators. C: O. Herb. il diags Mach 30:454-9 F '24

Crank pin machining time cut in half. L. S. Love. il Iron Age 115:681-3 Mr 5 '25

Cutting costs in the Soo line repair shops. H. Campbell. il Am Mach 60:37-40 Ja 10 '24

Development and manufacture of the self-opening die. il Am Mach 61:563-6, 621-4 O 9-16 '24

Difficult piece of machine work; finishing the interior of a cylinder casting of unusual shape. A. T. Gregory. il chart Am Mach 63:685-6 O 29 '25

Difficulties in making tapered shells. J. Williams. il Am Mach 60:583-5 Ap 17 '24

Drilling and reaming automobile front axles. il Mach 30:391 Ja '24

Drilling parts for cash registers. L. S. Love. il Iron Age 115:1113-17 Ap 16 '25

Driving-box practice on the Western Maryland. S. A. Hand. Am Mach 63:605-7 O 15 '25

Driving box work, N. & W. Ry. shops, Roanoke, Va. E. C. Gaines. il Ry R 75:15-17 Jl 5 '24

Economic aspect of tooling for interchangeable production. J. Lannen. diags Soc Auto Eng J 16:59-61 Ja '25; Discussion. 16:225-6+ F '25

Electric washer production methods. il Iron Age 115:819-22 Mr 19 '25

Eliminating blue prints in machining. il Iron Age 114:1327-8 N 20 '24

Engineering standards. E. Buckingham. Mech Eng 47:556-7; Discussion. 556-9 Jl '25

Engineering workshop principles and practice. A. G. Robson. 3d ed. 292p Emmott & co., ltd., Manchester '23

Everybody's handbook of machinist's kinks. 108p Popular mechanics press, Chicago '25

Fabrication of materials in machine shops. J. K. Wood. diag Am Mach 63:357-9 Ag 27 '25

Feed-water heaters difficult to machine. il Iron Age 114:1605-7 D 18 '24

Forging crankshafts for large Diesel engines. F. H. Colvin. il Am Mach 63:3-5 Jl 2 '25

Generating precision tools. W: E. Hoke. il diags Mach 31:421-5 F '25

Handling driving box work. J. H. Hahn. il diags Ry Mech Eng 98:549-52 S '24

Handling thin work on a magnetic chuck. M. Wright. il Am Mach 63:787 N 12 '25

Hollow connecting rods in the making. F. H. Colvin. il diags Am Mach 60:311-13, 351-2 F 28-Mr 6 '24

How crankshafts for Diesel engines are machined. F. H. Colvin. il Am Mach 63:45-9 Jl 9 '25

How driving-box practice varies. F. C. Hudson. diags Am Mach 63:697-9 O 29 '25

How forged nickel steel Poppet valves are machined on turret lathes in England. T. H. Hargrave. diags Automotive Ind 52:268-9 F 12 '25

How Rivett makes spring collets. il Am Mach 59:865-7 D 13 '23

How some spherical bearing surfaces were machined. G: C. Smith. il diag Am Mach 60:26 Ja 3 '24

How the American locomotive company machines cylinders and bushings. L. C. Morrow. il Am Mach 61:675-9 O 30 '24

Jigs and fixtures for small crankcases. A. J. Aires. il diags Am Mach 60:167-70 Ja 31 '24

Laboratory manual of machine shop practice. J. H. Service and G: E. Frease. 106p Van Nostrand '24

Lawn mowers in the making. il Am Mach 62: 586-7 Ap 9 '25

Lincoln crankshaft practice. C: O. Herb. il diag Mach 31:539-44 Mr '25

Machine shop practice. 416p Railway training institute, Chicago '25

Machine-shop practice and management subjects discussed at the forty-fifth annual meeting of the American society of mechanical engineers. Iron Age 114:1533-6 D 11 '24

Machining a hole along an arc. diags Mach 31:478-80 F '25

Machining a large cam drum. H. A. Loudon. il diags Mach 31:979-82 Ag '25

Machining a 37-ft. generator stator frame. E. T. Spidy. il diag Am Mach 59:955-6 D 27 '23

Machining a transmission housing. W. R. Graham. diags Mach 31:135-6 O '24

Machining a worm drive carrier. F. H. Colvin. il Am Mach 60:45-7 Ja 10 '24

Machining a Worthington pump at the Harrison plant. S. J. Koshkin. il Am Mach 62: 203-6 Ja 29 '25

Machining air compressor cylinders. C. B. Miles. Ry R 76:1104 Je 13 '25

Machining an awkward piece. C. H. Franklin. il Am Mach 63:27 Jl 2 '25

Machining automobile crankshafts. W. E. Groene. il Mach 30:855-8 Jl '24

Machining automobile wheel hubs. il plans Mach 31:125 O '24

Machining cylinders for the Gray motor. H. Campbell. il diags Am Mach 61:659-62 O 23 '24

Machining differential housings. I. F. Yeoman. il diags Mach 32:130-1 O '25

Machining differential housings on a universal turret lathe. I. F. Yeoman. il diags Mach 31:217-19 N '24

Machining differential side gears. O. S. Marshall. il diags Mach 32:118-19 O '25

Machining driving boxes, shoes and wedges. il diags Ry R 74:1029-39 Je 7 '24

Machining evenly spaced pockets in forming die. D. F. Moriarty. diags Mach 31:467 F '25

Machining gears for an electric-truck driving mechanism. F. H. Colvin. il Am Mach 61: 535-7 O 2 '24

Machining Hudson super-six lynite pistons. C: O. Herb. il diags Mach 30:365-70 Ja '24

Machining irregular shaped castings. O. S. Marshall. il Mach 31:50 S '24

Machining locomotive parts in the Frisco shops. H. Campbell. il Am Mach 59:749-52 N 22 '23

Machining massive parts of the world's largest prime movers. E. J. Armstrong. il diags Mech Eng 46:263-7 My '24

Machining methods at cash register plant. L. S. Love. il Iron Age 112:1639-43 D 20 '23

Machining monel metal and nickel. diags Mach 30:287-8 D '23

Machining motor bus axle housings. H. Campbell. il diag Am Mach 60:699-700 My 8 '24

Machining parts for four-wheel brakes. H. Campbell. il diags Am Mach 61:465-7 S 18 '24

Machining poppet valves for gasoline engines. F. Osgood. diags Am Mach 62:723-5 My 7 '25

Machining racks in a planer. C. H. French. il Am Mach 63:594 O 8 '25

Machining Sheldon brakes, drums and spiders. F. H. Colvin. il Am Mach 60:387-9 Mr 13 '24

Machining Sheldon truck axles. F. H. Colvin. il Am Mach 60:275-7 F 21 '24

Machining the transmission case of the Mack truck and bus. F. W. Curtis. il diags Am Mach 63:729-33, 765-8 N 5-12 '25

Machining valves and pipe flanges. C: O. Herb. il diags Mach 31:171-4 N '24

Machinists' and toolmakers' manual. F. D. Jones, ed. 248p Industrial press, New York '24

Making a steering gear for low-pressure-tired wheels. J: Younger. il Am Mach 63:264-6 Ag 13 '25

MACHINE shop practice—*Continued*
Making ball bearings for automobiles. H. R. Simonds. il Iron Tr R 74:345-9 Ja 31 '24
Making Chrysler connecting rods. J: Younger. il Am Mach 62:877-9 Je 4 '25
Making housings for ball bearings. il Am Mach 62:67-70 Ja 8 '25
Making Kelly reamers. C: O. Herb. il diag Mach 31:520-3 Mr '25
Making oxy-acetylene cutting tips. il Mach 31:19-21 S '24
Making pistons for many cars. L. S. Vadner. il Am Mach 62:149-50 Ja 22 '25
Making pistons in the locomobile shop. N. A. Jagger. il Am Mach 62:183-5 Ja 29 '25
Making small machine parts in strips. K. H. Crumrine. diags Am Mach 60:631-2 Ap 24 '24
Making spindles for machine tools. S. W. Brown. il Am Mach 60:939 Je 19 '24; Discussion. G: Wilson. 61:742-3 N 6 '24
Manufacture of tapered roller bearings. M. T. Lothrop. il diag Am Mach 61:803-7, 833-7 N 20-27 '24
Manufacture of wire springs. J. W. Rockefeller, jr. Mach 31:115 O '24
Manufacturing a precision tool. E. Sheldon. il Am Mach 59:903-7 D 20 '23
Manufacturing auger and machine bits. C: O. Herb. il diags Mach 30:271-6 D '23
Manufacturing automobile valve tappet parts. il diags Mach 30:282-6 D '23
Manufacturing hydraulic four-wheel brake parts. J: Younger. il diag Am Mach 62: 795-8 My 21 '25
Manufacturing in a college shop. A. V. O'Brien. il Am Mach 60:295-6 F 21 '24
Manufacturing interchangeable counterbores. C: O. Herb. il diags Mach 30:943-7 Ag '24
Manufacturing the right line radial drill. J: Haydock. il Am Mach 61:495-8, 543-5 S 25-O 2 '24
Manufacturing the Waugh rock drill. J. C. Briggs. il Am Mach 61:241-4 Ag 7 '24
Maschinen- und handarbeit. diags Zeit Ver Deutsch Ing 69:275-9, 382-4 F 28, Mr 21 '25
Maxwell method of securing accurate pistons. F. H. Colvin. il Am Mach 60:873-4 Je 12 '24
Maxwell methods in flywheel work. F. H. Colvin. il diag Am Mach 60:729-30 My 15 '24
Maxwell methods of making rear-axle parts. F. H. Colvin. il diag Am Mach 60:529-32, 569-72, 661-3 Ap 10-17, My 1 '24
Methods in a fire-engine shop. F. H. Colvin. il diags Am Mach 62:43-5 Ja 8 '25
Modern methods of building printing presses. F. H. Colvin. il Am Mach 62:639-41 Ap 23 '25
Modern piston ring practice involves efficient design and production. P. M. Heldt. diags Automotive Ind 49:1142-6, 1204-8 D 6-13 '23
Modern practice in driving rod repairs. il Ry R 75:236-44 Ag 16 '24
New York Central cylinders. L. C. Morrow. il Am Mach 61:493-4 S 25 '24
Normal capacity of turret lathe increased. L. S. Love. il Iron Age 114:1529-31 D 11 '24
Olds uses novel production methods for interchangeable bearings. W. L. Carver. il Automotive Ind 52:978-81 Je 4 '25
Pierce-Arrow machining processes. J: Younger. il diags Am Mach 61:571-3 O 9 '24
Piston-rings and their production. J. McIntosh. diag Mach 31:93-4 O '24
Possible economies in automotive machine-shop operations. A. L. DeLeeuw. Soc Auto Eng J 15:418-25 N '24; Same. Am Mach 61: 735-8, 765-70 N 6-13 '24; Abstract. Automotive Ind 51:754-5 O 30 '24; Discussion. Soc Auto Eng J 16:460-4 Ap '25
Production methods in a tractor plant. il Mach 31:951-4; 32:32-5 Ag-S '25
Production methods in European shops. J: Q. Tilson. il Am Mach 63:455-6 S 17 '25
Production methods on large oil engines. L. S. Love. il Iron Age 113:1777-82 Je 19 '24
Production of Rickenbacker motor parts. H. Campbell. il Am Mach 61:609-12 O 16 '24
Recent practice on locomotive axles, crank-pins and piston rods. diags Am Mach 63: 397-8 S 3 '25
Reclaiming machine parts and tools. S. W. Brown. diag Mach 31:699 My '25
Repairing locomotives in a manufacturing plant. H. Campbell. il Am Mach 61:329-32 Ag 28 '24
Routing and handling material in making a quarter-horsepower motor. L. C. Morrow. il plans Am Mach 61:291-4, 333-6, 389-92 Ag 21-S 4 '24
Saving one setting in machinery. A. A. Dowd. diags Am Mach 60:817-18 My 29 '24; Discussion. A. Sylvester. 61:587 O 9 '24
Saving operations in finishing crank pins. il Ry Mech Eng 98:303-4 My '24
Screw machine tooling for two-piece pistons. I. F. Yeoman. il diags Mach 31:617-18 Ap '25
Shop measurements; English and metric standards of length and their interrelation. E. Buckingham. Mech Eng 46:535-8 S '24
Side and main rod work. L. C. Morrow. il Am Mach 61:367-9 S 4 '24
Simple equipment used to machine pistons accurately. W. L. Carver. il diags Automotive Ind 52:502-5 Mr 12 '25
Some limitations on manufacturing to close limits. B. H. Blood. il diags Mech Eng 46: 186-8+ Ap '24; Same. Iron Tr R 74:1305-8 My 15 '24; Same cond. Iron Age 113:927-9 Mr 27 '24; Excerpt. Am Mach 60:608 Ap 24 '24
Some of the fixtures used in machining the front axle of the locomobile. N. A. Jagger. il Am Mach 62:261-3 F 12 '25
Some problems solved in manufacturing the Hupp eight. J: Younger. il diag Am Mach 62:529-32, 571-5 Ap 2-9 '25
Special tooling for large turret-lathe work. il Am Mach 62:470-1 Mr 19 '25
Special tooling on railroad injector work. S. L. Kneass. il Am Mach 62:499-501 Mr 26 '25
Special tools and operations used in making sweepers. F. H. Colvin. il diags Am Mach 62:829-31 My 28 '25
Special tools facilitate machining of bearings. il diag Elec Ry J 64:834-7 N 15 '24
Standardization of chisel production. F. Johnstone-Taylor. diags Ry Mech Eng 98: 115-17 F '24
Starrett data book for machinists. H. P. Fairfield and others, eds. 4th ed. 180p L. S. Starrett co., Athol, Mass. '25
Successful manufacturing methods in America. G. Schlesinger. Am Mach 62:929-31 Je 11 '25
Summary of the solutions to the first practical shop problem; machining a 7x9-in. hole through a 4-in. piece of 0.50 carbon steel. il Am Mach 63:63-5 Jl 9 '25
Survey of armature, axle and journal bearing practice. il diags Elec Ry J 64:725-9 O 25 '24
Text-book of advanced machine work. R. H: Smith. 8th ed., rev. and enl. 802p Industrial education book co., Boston '25
Threads by broaching. il Iron Age 116:1117 O 22 '25
Tooling for small quantity work. L. S. Love. il Iron Age 114:1193-6 N 6 '24
Tooling methods. il diags Engineering 119:85-7 Ja 16 '25
Turbine blades in the making. F. H. Colvin. il Am Mach 63:135-8, 195-8 Jl 23-30 '25
Typical turret-lathe tooling. F. H. Colvin. il diags Am Mach 62:373-5; 63:353-5, 573-5 Mr 5, Ag 27, O 8 '25
Use of paper in the machine shop. J. Davies. Am Mach 63:200-1 Jl 30 '25

MACHINE shop practice—*Continued*

Using automobile parts in machine construction. D. A. Hampson. diags Mach 32:127-9 O '25

See also Arbors and mandrels; Automobile engines—Manufacture; Babbitting; Bending; Broaching; Centering; Chucks; Connecting rods—Manufacture; Cylinders (engines, etc.); Dies; Drafting room practice; Drilling and boring (metal working, etc.); Electric driving; Engineering colleges—Shop management; Fitting (machinery); Forging; Foundry practice; Gages; Gear cutting; Graduating; Grinding; Grinding machines; Indexing (machine work); Lathes; Locomotive shops; Machine shop management; Machine tools; Machinery; Metal cutting; Milling; Molds, Cast iron; Motor trucks—Manufacture; Pattern making; Piston rings—Manufacture; Railroads—Shops; Repair shops; Riveting; Rolling mills; Scraping machines (metal work); Sharpening; Sheet metal work; Springs (mechanism)—Manufacture; Steel works; Welding

Study and teaching

Can a school turn out first-class machinists? methods in a trade school machine shop that is run on a commercial basis. C: O. Herb. il diags Mach 30:622-5 Ap '24

MACHINE shops

Backwoods shop with home-made machinery. G: Wilson. il Am Mach 60:371-3 Mr 6 '24

Brush-Ljungström turbines; their manufacture at Loughborough. il Electrician 93:582-3 N 21 '24; Engineering 118:699-700. pl 74-6 N 21 '24; Elec R (Lond) 95:820-2 N 28 '24

Details of a modern steel frame one-story shop. il diags plans Eng N 92:456-9 Mr 13 '24

French machine shop. N. Lee. Am Mach 61: 730 N 6 '24

Improvements in press building shop; new works of V & O press co. at Hudson, N.Y. il Iron Age 113:1866-7 Je 26 '24

Kind of salesmen who succeed in selling to machine shops. Sales Management 8:556-8 Ap 4 '25

Leviathan's machine shop. C. Hutchinson. il Am Mach 62:614-15 Ap 16 '25

Machine shop in an office building. il Iron Age 116:410 Ag 13 '25

Modern engineering department. J: Younger. il Am Mach 63:615-17 O 15 '25

New machine shop for Ford motor co. of Canada ltd. il Can Eng 46:223-5 F 12 '24

Les nouveaux ateliers et laboratoires de l'Ecole centrale des arts et manufactures. L. Guillet. il diags plans Génie Civil 86: 497-509 My 23 '25

Routing and handling material in making a quarter-horsepower motor. L. C. Morrow. il plans Am Mach 61:291-4, 333-6, 389-92 Ag 21-S 4 '24

Taking up the postwar slack; Colt's patent fire arms mfg. co., Hartford, Conn. H. R. Simonds. il Iron Tr R 76:277-81 Ja 22 '25

Time is best test of industrial plant design; Consolidated press company, Hastings, Mich. il plan Iron Tr R 76:1567-71 Je 18 '25

See also Electric driving; Electric railroads—Shops; Locomotive shops; Machine shop management; Machine shop practice; Machine tools; Railroads—Shops; Tool rooms

Accounting

See Factories—Accounting

Costs

Economic analysis of machine shop operations. A. L. De Leeuw. diag Am Mach 60: 807-9, 843-6, 891-3 My 29-Je 12 '24; Excerpts. Automotive Ind 51:148-53 Jl 17 '24

How to estimate machine shop costs. A. A. Dowd. chart diags Am Mach 60:567-8, 609-11, 685-8, 773-5, 795-7, 883-5, 963-6; 61:55-7, 149-52. 227-30, 299-302. 469-73, 613-15, 695-7, 775-7, 839-42, 997-1000; 62:59-62, 199-202, 273-6, 395-8, 543-5, 617-20 Ap 17-24, My 8, 22-29, Je 12, 26, Jl 10, 24, Ag 7, 21, S 18, O 16, 30, N 13, 27, D 25 '24, Ja 8, 29, F 12, Mr 5, Ap 2, 16 '25

Employees

Die ausbildung des nachwuchses im maschinenbau. Zeit Ver Deutsch Ing 69:813-14 Je 13 '25

Retaining the right type of girl machinists. Cassier's Ind Management 12:336-7 Je '25

Trained ears as an asset to industry. il Iron Age 114:312-13 Ag 7 '24

Training machinists in the Reo plant. C: O. Herb. il diag Mach 31:847-51 Jl '25

Wages and hours in manufacturing; analysis of the iron and steel and the foundry and machine shop groups from July, 1914, to January, 1924. Iron Age 113:1356-7 My 8 '24; Iron Tr R 74:1167-9 My 1 '24

Wages and hours of labor in foundries and machine shops, 1923. U S Bur Labor Statistics Bul 362:1-120 '24

Equipment

Arranging machines and conveyors for flexible production schedules. W: Bailey. il plans Am Mach 62:257-60 F 12 '25

Elevated pit. M. Wright. il Am Mach 60:895 Je 12 '24

Gravity conveyors in the machine shop. M: W: Potts. il diags Mach 30:331-7 Ja '24

Mechanical handling at River Rouge; handling large castings through production operations in the machine shop. M: W. Potts. il diags Ind Management 68:86-9 Ag '24

Semi-annual résumé of machines, tools and accessories described in the Shop equipment news section of the American machinist during the last six months of 1924; with index to manufacturers. Am Mach 62:81-143 Ja 15 '25

Semi-annual résumé of machines, tools and accessories described in the Shop equipment news section of the American machinist during the first six months of 1925; with index to manufacturers. Am Mach 63:79-134 Jl 16 '25

See also Locomotive shops—Equipment; Machine shop management; Machine tools

Prices

Price changes in the last half-year. Am Mach 62:144 Ja 15 '25

Price trend of machine shop materials and supplies downward. A. W. Welch. Am Mach 61:85-6 Jl 17 '24

Layout

A.R.A. report on passenger car repair shop design and construction. plans Ry R 76: 1157-63 Je 20 '25

A.R.E.A. committee report on general layouts and designs of car shops. Ry R 76:510-13 Mr 14 '25

B.R. & P. has well organized production shop. il plans Ry Mech Eng 98:295-9 My '24

Changes in equipment and product preceding installation of production control. G: D. Babcock. Management & Adm 8:24 Jl '24

C. B. & Q. shops at West Burlington. H. Campbell. il diags Am Mach 61:905-9 D 11 '24

Dobbin—a repair shop afloat. Mech Eng 46: 174 Ap '24

Interesting wheel and axle shop of Newport News shipbuilding & dry dock co. il diags plan Ry R 75:976-87 D 20 '24

Modern shop planned for building automatic printing presses. W: M. Kelly. il plan Am Mach 62:281-4 F 12 '25

New passenger car repair shops and stores buildings for Wabash railway at Decatur, Ill. il diags plans Ry R 76:257-67 F 7 '25

Southern railway opens new shops at Birmingham. il diags plans Ry R 76:20-8 Ja 3 '25; Ry Age 77:1159-64 D 27 '24; Ry Mech Eng 99:165-75 Mr '25

Straight line passenger car repair shops. L. Richardson. Ry Age 77:1088-90 D 13 '24; Same. Ry R 75:949-52 D 13 '24; Same. Ry Mech Eng 99:97-9 F '25

MACHINE shops—Layout—*Continued*
Toronto shop has 5 acres under roof. Elec Ry J 63:894 Je 7 '24

Lighting

Electrical construction. E. E. Browne. diags J Elec 51:454-5 D 15 '23
Good lighting equipment pays. J. J. McLaughlin. il diags Am Mach 61:253-6 Ag 14 '24
Lighting facts to ponder over. C. E. Weitz. il Am Mach 62:295-300 F 19 '25
Unusual lighting problem easily solved. R. A. Palmer. Factory 32:210+ F '24
See also Railroads—Shops—Lighting

Power

See Electric driving; Machine tools—Electric driving

Safety devices and measures

How production methods aid machine shop safety. A. K. Dean. Nat Safety N 12:25-6 Ag '25; Same. Safety Eng 50:121-3 Ag '25; Same cond. Am Mach 63:231 Ag 6 '25
Making machine-tools safe. R. F. Thalner. il Soc Auto Eng J 17:479-85 N '25; Abstracts. Am Mach 63:524k S 24 '25; Automotive Ind 53:537-8 S 24 '25

Standards

Standardization in the machine-shop industries. C. J. Oxford. Mech Eng 47:772-3 S '25
Standardized shop work at Topeka. F. H. Colvin. Am Mach 61:63-4 Jl 10 '24

MACHINE tool builders' association, National. See National machine tool builders' association

MACHINE tool industry
Are production costs of machine tools going down? E. F. DuBrul. Mach 31:111 O '24
Better outlook for machine tools in 1925. F. A. Scott. Iron Age 115:30 Ja 1 '25
Business hazard in the machine tool industry. W. C. Mitchell. Am Mach 60:1-4 Ja 3 '24
Code of ethics in machine tool building. Iron Age 115:1358-9 My 7 '25; Same. Mach 31: 822-3 Je '25
Determining the selling price of machine tools; figuring costs on five-year averages. H. R. Simonds. Iron Tr R 75:35-8 Jl 3 '24
Features of 1924's machine tool market. Iron Age 115:113 Ja 1 '25
Forecasting demand for industrial equipment. E. F. DuBrul. Mech Eng 46:539-42 S '24; Same. Iron Tr R 75:731-4 S 18 '24
Forty years selling machine tools. A. R. Stedfast. Mach 30:853-4 Jl '24
Future of the machine-tool industry. O. B. Iles. Mech Eng 47:894-6 N '25; Excerpt. Iron Age 116:684 S 10 '25
Germans want to buy machine tools. C: D. Oesterlein. Iron Age 116:348 Ag 6 '25
Is display room worth while? F. G. Steinebach. il Iron Tr R 74:420-2 F 7 '24
Machine civilization will grow. R. E. Flanders. Iron Tr R 74:1380 My 22 '24
Machine tools and the census. E. F. DuBrul. Iron Age 114:1609 D 18 '24
Machine tools produced in 1923 and whence they came. diags Iron Age 114:1344-5 N 20 '24
Management problems in machine building industries. E. F. Du Brul. Am Mach 60:717-21 My 15 '24
Mechanical officer and the tool builder. E. F. DuBrul. il Ry Mech Eng 99:331-2 Je '25
National machine tool builders' association spring convention at Buffalo. Iron Age 113: 1582a-f My 29 '24; Iron Tr R 74:1440-1+ My 29 '24
National machine tool builders' association 23d spring convention. Mach 31:693-4 My '25; Am Mach 62:756-a My 7 '25; Iron Age 115:1358-61 My 7 '25; Iron Tr R 76:1225-7 My 7 '25
Needed: a better mutual understanding between car manufacturers and machine tool builders. W. L. Carver. il Automotive Ind 53:687-90 O 22 '25
Orient is best American tool field; Europe returning to heavy demands of prewar period. W. H. Rastall. Iron Tr R 77:687-9+ S 17 '25; Excerpts. Mech Eng 47:947 N '25
Prospective view of the machine tool industry for the next decade or two. O. B. Iles. Am Mach 63:425-9 S 10 '25; Same cond. Mach 32:23-4 S '25
Right way to limit production. E. F. DuBrul. Ptr Ink 130:33-4+ Ja 29 '25
Selling new types of machine tools. G: M. Meyncke. diags Mach 31:527-9 Mr '25
Sound business principles for machine tool builders. E. F. DuBrul. Iron Tr R 76:281 Ja 22 '25
What right kind of publicity can do for machine tool industry. E. F. DuBrul. Iron Tr R 76:1187-8 My 7 '25
Will loans abroad hurt business? O. B. Iles. Iron Age 115:1125 Ap 16 '25

Advertising

Advertising and marketing of machine tools. Iron Age 116:958-60 O 8 '25
Telling the world of your wares. H. S. Riggs. Mach 31:865-6 Jl '25

Directories

Index of American manufacturers. Am Mach 61:129-31; 63:119-23 Jl 17 '24, Jl 16 '25
Index of European manufacturers. Am Mach 62:142-3; 63:134 Ja 15, Jl 16 '25

Statistics

Census figures on machine tools. Am Mach 61:975 D 18 '24
Machine tools; shipments, 1921-1924. Survey of Cur Business 32:55 Ap '24

Czechoslovakia

Czechoslovakia controls own industries assert Czech machine tool agents. M. Kocian and G. Nedela. Am Mach 61:980c D 18 '24

Europe

Index of European manufacturers. Am Mach 62:142-3; 63:134 Ja 15, Jl 16 '25
Machine tool situation in Europe. W. H. Rastall. Am Mach 61:636a-b O 16 '24; Same. Iron Age 114:987-8 O 16 '24; Same. Iron Tr R 75:1090-1 O 23 '24; Same. Mach 31:261-2 D '24

France

French industry awaiting developments. Am Mach 61:866b N 27 '24

Germany

German competition in machinery diminishing. Am Mach 60:20 Ja 3 '24
Germany prepares for renewed activity in the machine tool line. Am Mach 61:480b S 18 '24
Germany's need of machine tools. Am Mach 61:790b-c N 13 '24
Der werkzeugmaschinenbau des Rheinlandes. F. W. Hülle. il diags Zeit Ver Deutsch Ing 69:1043-8, 1071-5 Ag 1-8 '25

Great Britain

British machine tool industry. Mach 31:396 Ja '25
Survey of British machine tool industry. F. Johnstone-Taylor. Iron Age 113:799-800 Mr 13 '24

India

India—a field for American machinery. F. Leslie-Jones. Am Mach 59:953-4 D 27 '23

Italy

Machine tools in Italy. Mach 31:585 Mr '25

Japan

Machine tool requirements of Japan. S. Noda. Mach 31:350 Ja '25

MACHINE tool industry—*Continued*

New England

Development of machine tools in New England. G. Hubbard. il map Am Mach 59:1-4, 138-42, 241-4, 311-15, 389-92, 463-7, 541-4, 579-81, 919-22; 60:129-32, 171-3, 205-9, 255-8, 271-4, 437-41, 617-20, 875-8, 951-4; 61:65-8, 195-8, 269-72, 313-16, 453-5 Jl 5, 26, Ag 16, 30, S 13, 27, O 11-18, D 20 '23, Ja 24-F 21, Mr 20, Ap 24, Je 12, 26, Jl 10, Ag 14-21, S 18 '24

Russia

Conditions in the Russian machine-building industries. J. A. Massel. Mach 31:616 Ap '25

South America

Trade conditions in South America. C. F. Meyer. Am Mach 62:839-40, 992 My 28, Je 25 '25

United States

American machine tool industry, its present condition and future prospects. R. E. Flanders. Mech Eng 46:433-4 Jl '24

Export outlook in machine tools. W. H. Rastall. Iron Age 116:745-7 S 17 '25; Same. Mach 32:109-10 O '25

Export problem of the machine-tool industry. W. H. Rastall. Mech Eng 46:184-5+ Ap '24; Same cond. Am Mach 60:467-8 Mr 27 '24; Same cond. Iron Tr R 74:921-2 Ap 3 '24

Finding work for idle equipment. E. L. Shaner. il Iron Tr R 74:7-10 Ja 3 '24

Foreign trade prospects. il Mach 31:374-8 Ja '25

Future manufacture will be limited by slower industrial expansion. R. E. Flanders. Automotive Ind 50:1227-9 Je 5 '24

Government and machine-tool industry; abstracts. G: K. Burgess. Am Mach 61:513-15 S 25 '24; Mech Eng 46:645-7 O '24.

Industrial review. Published in weekly numbers of American machinist

Machine-tool builders for 77 years; William Sellers & co., inc. F. H. Colvin. Am Mach 62:851-3 My 28 '25

Machine tool exports gaining. Iron Age 115: 1193-4 Ap 23 '25

Machine tool industry in 1925. Mach 31:367-8 Ja '25

Machine tool statistics for 1923. Mach 31:227 N '24

Machine tools purchased during 1924. il Ry Age 78:101-3 Ja 3 '25

Machine tools—the European market. W. H. Rastall. Am Mach 60:851-2 Je 5 '24; Same. Iron Age 113:1502-3 My 22 '24

Ohio leading in machine tool production. il Iron Tr R 75:1433 N 27 '24

Outlook for the machine tool industry. R. E. Flanders. Am Mach 60:790b-c My 22 '24; Same. Engineer 137:607-8 My 30 '24; Same cond. Mach 30:765-6 Je '24

Production of machine tools in 1923; U.S. census report. Mach 31:315 D '24

Railroads large buyers of machine tools. Iron Age 113:139 Ja 3 '24; Same. Ry R 74:217-18 F 2 '24

Twenty years in the machine tool industry. diag Mach 30:393 Ja '24

Urges machine tool builders to cultivate and develop foreign markets. W. H. Rastall. Am Mach 62:792c My 14 '25

Year's purchases of machine tools by the railroads. L. R. Gurley. Ry Mech Eng 99: 46-56 Ja '25

MACHINE tools

American society of mechanical engineers Chicago machine-tool meeting. Mech Eng 47: 306-8 Ap '25; Iron Age 115:833-5 Mr 19 '25

Artisan metal worker. il Am Mach 63:454 S 10 '25; Mach 32:75 S '25

Automatic piston machine. il Iron Age 113: 1432-3 My 15 '24

Automotive industry and the machine tool builder. Am Mach 63:525-32 O 1 '25

Automotive industry and the machine tool builder. Mach 31:85-91, 179-83, 263-7 O-D '24; Discussion. 31:270 D '24

Broad range of adaptation given by no. 2-G production unit of the Meldrum-Gabrielson corp. il Automotive Ind 50:340-1 F 14 '24

Budd-Ranney heavy duty automatic bar machine. il diags Am Mach 60:192-3 Ja 31 '24; Iron Age 113:363-4 Ja 31 '24; Mach 30:475-8 F '24

Davenport non-stop semi-automatic machine for production drilling, turning, threading and tapping. il Iron Age 116:1255 N 5 '25

Digest of new machine tools and shop equipment. il Iron Tr R 74:423-9, 677-84, 923-31, 1171-8, 1505-13; 75:39-47, 361-7, 607-11, 884-8, 1236-43, 1503-8+; 76:163-7+, 389-91, 424-7, 633+, 881-3, 1194-6+, 1456-8+; 77:12-14, 312-13, 346-50, 563-8, 829-33+, 1154-6+, 1435-9 F 7, Mr 6, Ap 3, My 1, Je 5, Jl 3, Ag 7, S 4, O 2, N 6, D 4 '24, Ja 8, F 5, Mr 5, Ap 2, My 7, Je 4, Jl 2, Ag 6, S 3, O 1, N 5, D 3 '25

Economic efficiency of the full-automatic turret lathe in comparison with the semi-turret lathe. R. J. Wadd. Mech Eng 47:411-14 sec 2 My '25

Fortschritte der metallbearbeitungstechnik unter berücksichtigung der Leipziger frühjahrsmesse. Buxbaum. il diags Zeit Ver Deutsch Ing 68:745-50, 798-802 Jl 19, Ag 2 '24

40% of all machine tools are over 20 years old. Elec Ry J 63:441-3 Mr 22 '24; Same. Am Mach 60:513-15 Ap 3 '24

Getting the most out of your machine tool dollar. J. A. Smith and others. Am Mach 62:409-11, 521-2, 719-22, 793-4 Mr 12, Ap 2, My 7, 21 '25; Discussion. 62:740 My 7 '25

High-production machines in the automobile shops. il diags Am Mach 61:191-4, 277-9 Jl 31, Ag 14 '24

How modern machine tools cut costs. il Elec Ry J 63:444-54 Mr 22 '24

How the automotive industry selects equipment. il Mach 32:87-92, 184-9, 274-6 O-D '25

How the overhang of tools affects shop costs. C: F. Henry. diags Am Mach 60:17-19 Ja 3 '24

How to purchase small tools. H. Varley. Cassier's Ind Management 11:334+ Je '24

Improved machine tools speed up production. il Dun's Int R 45:52-6 Ag '25

Die kleinwerkzeugmaschine im schiffbau. Feilcke. il Zeit Ver Deutsch Ing 69:283-8 F 28 '25

Krause four-in-one universal machine tool model U.M. il Am Mach 62:445-6 Mr 12 '25; Iron Age 115:699 Mr 5 '25

Large fixtures and tools for building Twin City tractors. H. Campbell. il Am Mach 60: 907-10 Je 19 '24

Machine tool exhibition diversified; subjects discussed at 4th annual New Haven equipment exhibition. Iron Age 114:757-8+ S 25 '24

Machine tool men discuss production problems at annual exhibit, New Haven, Sept. 10-12. P. M. Heldt. diags Automotive Ind 53:445-8 S 17 '25

Machine-tool needs of the automotive industry. R. M. Hidey. Soc Auto Eng J 17:359-60 O '25; Same. Am Mach 63:533-5 O 1 '25; Same. Mach 32:107-8 O '25; Same cond. Automotive Ind 53:527-8 S 24 '25; Abstract. Iron Age 116:841 S 24 '25

Machine tools for automotive shops. L: Ruthenburg. Mach 31:103 O '24

Machine tools—present and future. F. A. Scott. Mach 31:362 Ja '25

Machine tools refined in 1924. E. F. Ross. Iron Tr R 76:33-4+ Ja 1 '25

Machinery builders improve products. E. F. Ross. il Iron Tr R 74:31-3 Ja 3 '24

Machines-outils pour le travail des métaux; cours supérieur. C. Roure. 356p G. Doin, Paris '25

Making machine-tools safe. R. F. Thalner. il Soc Auto Eng J 17:479-85 N '25; Abstracts. Am Mach 63:524k S 24 '25; Automotive Ind 53:537-8 S 24 '25

MACHINE tools—*Continued*
Minimizing cost on new production. C: B. Johnson. Ind Management 67:229-30 Ap '24
Neue wege zum fabrikationserfolg. G: Schlesinger. Zeit Ver Deutsch Ing 69:197-206, 269-74, 346-8 F 21-28, Mr 14 '25
New or improved machines recently developed for speeding up processes of car production. il diag Automotive Ind 52:150-1 Ja 22 '25
Price or quality considerations when purchasing machine tools. Engineering 116:808-9 D 28 '23
Principal developments in shop equipment during the last six months of 1923. L. C. Morrow. il Am Mach 60:81-114 Ja 17 '24
Problem of buying or making small tools. H. A. Darrell. Cassier's Ind Management 12:275 Ap '25
Report on the present status and future problems of the art of cutting and forming metals. Mech Eng 46:20-30+ Ja '24
Selection of machine tools. W. G. Careins. Am Mach 63:524h-i S 24 '25; Abstract. Automotive Ind 53:526-7 S 24 '25
Semi-annual résumé of machines, tools and accessories described in the shop equipment news section of the American machinist during the first six months of 1924; with index to manufacturers. L. C. Morrow. Am Mach 61:89-131 Jl 17 '24
Semi-annual résumé of machines, tools and accessories described in the Shop equipment news section of the American machinist during the last six months of 1924; with index to manufacturers. Am Mach 62: 81-143 Ja 15 '25
Semi-annual résumé of machines, tools and accessories described in the Shop equipment news section of the American machinist during the first six months of 1925; with index to manufacturers. Am Mach 63:79-134 Jl 16 '25
Some suggestions for builders and users of machine tools. T: Nadin. Am Mach 60: 211-12 F 7 '24; Same. Soc Auto Eng J 14: 134-5 F '24; Same cond. Cassier's Ind Management 11:322 Je '24; Discussion. Soc Auto Eng J 14:614-16 Je '24
Die sondermaschine. K. Jung. il diags Zeit Ver Deutsch Ing 69:257-60, 315-19, pl 1 F 28-Mr 7 '25
Southern Pacific repairs. H. Campbell. il Am Mach 60:869-72 Je 12 '24
Special machines in an automobile plant. il Mach 31:695-8 My '25
Stickney universal unit. il Mach 31:656-7 Ap '25
Three-hundred-ton machine tool. il Sci Am 132:387 Je '25
Trend of improvements in machine tools. L. D. Burlingame. Iron Age 113:30-2 Ja 3 '24
Universal-werkzeug- und rundschleifmaschine. M. Coenen. diags Zeit Ver Deutsch Ing 69: 439-40, pl 3 Ap 4 '25
Versatile tool for locomotive repair shops. L. R. Gurley. il Ry Mech Eng 99:295-9 My '25
Werkzeugmaschinen für den schiffbau. L. Noé. il diags Zeit Ver Deutsch Ing 69:241-8, 279-82 F 21-28 '25
Werkzeugmaschinen für den wasserturbinenbau. O: Meyer. il Zeit Ver Deutsch Ing 69: 294-6 F 28 '25
What users want in machine tools. R. R. Keith. il Iron Tr R 76:878-9 Ap 2 '25
When should old machine equipment be replaced? W. L. Carver. Automotive Ind 50: 906-9 Ap 24 '24
Worthington methods for tool storage, use and repair. A. L. Christensen. Management & Adm 10:201-4 O '25

See also Arbors and mandrels; Bending machines; Broaches; Chamfering machines; Chucking machines; Cutting machines; Cutting-off machines; Dividing machines; Drilling and boring machinery; Facing tools; Feed mechanism; Forming tools; Gear cutting machines; Grinding; Grinding machines; Hobs; Lathes; Linishers; Locating devices; Machine shop practice; Machine tool industry; Metal cutting; Milling cutters; Milling machines; Planing machines; Pneumatic tools; Pointing machines; Polishing machines; Punching machinery; Reamers; Saws; Screw machines; Shapers; Sharpening; Shears (machines); Slots; Slotting machines; Swaging machines; Tapping machines; Thread cutting machines; Tool steel

Bearings

Application of ball bearings to machine tools. diags Mach 30:776-81 Je '24
Application of ball bearings to machine tools. B. M. W. Hanson. il diags Mach 30:355-61 Ja '24
Ball bearings applied to machine tools. T. C. Delaval-Crow. diags Mach 31:454-9 F '25

Control

Distant control for machine tools. T. W. Revell. il Am Mach 60:31 Ja 3 '24
Trips and control dogs for machine tools. F. Horner. diags Mach 32:6-10 S '25

Design

Bemerkenswerte bauarten von werkzeugmaschinen. F. W. Hülle. il diags Zeit Ver Deutsch Ing 69:207-14, pl 1 F 21 '25
British machine-tool design. W. E. Sykes. il Mech Eng 46:395-401 Jl '24; Excerpts. Am Mach 60:917 Je 19 '24
Circular forming tool dimensions. L. W. Close. diags Mach 31:630-2 Ap '25
Design of machine tool feet and bases. F. Horner. diags Mach 30:259-62, 450-3, 508-11 D '23, F-Mr '24
Drafting-board versus work-bench designing. K. H. Crumrine. Mach 32:205 N '25
Efficient tool designing system. F. H. Mayoh. diags Mach 32:29-30 S '25
How the automotive industry has influenced the design of machine tools. A. L. DeLeeuw. Am Mach 61:891-2 D 4 '24
Is beauty an important factor in machine design? an interview with Maxfield Parrish. K. H. Condit. il Am Mach 59:461-2 S 27 '23; Discussion. 60:298, 364 F 21, Mr 6 '24
Methods of machine tool designs. A. L. DeLeeuw. diags Am Mach 60:621-4, 933-5; 61: 317-20, 341-3, 431-3, 507-9, 575-8, 649-52, 799-801, 947-9; 62:21-5, 155-7, 233-6, 425-7, 505-7 Ap 24, Je 19, Ag 21-28, S 11, 25, O 9, 23, N 20, D 18 '24, Ja 1, 22, F 5, Mr 12, 26 '25
Reducing shop cost in the engineering department. J. A. Davis. diags Am Mach 61: 761-3 N 13 '24
Sales hints for the machine designer. Am Mach 60:333 F 28 '24
Die selbsttätigen arbeitsmaschinen. P. Kelle. il diags Zeit Ver Deutsch Ing 69:234-40, 289-94 F 21-28 '25
Tool designing for production manufacturing. P. V. Miller. diags Soc Auto Eng J 15:445-8 N '24; Abstract. Am Mach 61:739-40 N 6 '24; Discussion. Soc Auto Eng J 16:513-16 My '25
Trend in modern machine tool design. Mach 31:339-45 Ja '25

Electric driving

Band saw adaptable for motor drive. il Ry Mech Eng 99:380-1 Je '25
Einzelantrieb von werkzeugmaschinen. K. Meller. diags Zeit Ver Deutsch Ing 69:265-8 F 28 '25
Electric drive and magnetic control for machine tools. A. L. Harvey. il Elec J 21:265-9 Je '24
Electrical equipment for machine tools. J: W. Harper. il diag Am Mach 61:215-17, 261-4 Ag 7-14 '24
Individual electric motor drive of planing machines. L. Miller. Engineering 120:172-5 Ag 7 '25
Individual motor mounting improves shop drives. il Elec Ry J 62:858-9 N 17 '23
Layout of group and individual drives. R. W. Drake. il Ind Eng 82:174-7 Ap '24
Machine tools with built-in electrical equipment. J: W. Harper. il Am Mach 62:780-2 My 14 '25

MACHINE tools—Electric driving—*Continued*
Motor-drive one feature of new Detroit centerless grinder. il diag Automotive Ind 52: 500-1 Mr 12 '25
Motorized motor shop on the Pacific coast. il Am Mach 62:492-3 Mr 26 '25
Motors for machine tools. J. B. Armitage. Mach 31:21 S '24
Operating results with a Newton planing machine drive. il Engineering 117:120 Ja 25 '24
Partial electrification leads to full use of central-station power. G. W. Quentin. Elec W 83:632-3 Mr 29 '24
Planing elevator T-rails. il diags Am Mach 63:473-5 S 17 '25
Planning a lineshaft installation. F. E. Gooding. il Ind Eng 83:418-22+ S '25
Proper wiring of electrical equipment on machine tools. R. C. Deale. il Am Mach 63: 215-18 Ag 6 '25
Standardisation of electric motors for machine tools. C. W. Haxby. Elec R (Lond) 96:5-6 Ja 2 '25
When to use group and individual drives. R. W. Drake. il Ind Eng 82:56-60+, 118-22 F-Mr '24
Wood and metal-working machinery motor requirements. H. C. Jorstad. il Elec W 83: 519-21 Mr 15 '24

Exhibitions

Display machines at 4th annual exhibition of machine tools, New Haven, Sept. 15-18. Iron Tr R 75:812-13, 884-6 S 25-O 2 '24
Display machines at 5th annual exhibition of machine tools, New Haven. Am Mach 63:492a-b S 17 '25; Iron Age 116:739-42 S 17 '25; Iron Tr R 77:720-1 S 17 '25
Four notable machine tool exhibits. il Mach 32:143-5 O '25
Leipzig fair. il Engineering 119:328-9 Mr 13 '25
Leipzig fair proves most successful. Am Mach 60:602g-h Ap 17 '24
Machine tool and engineering exhibition. il Elec R (Lond) 95:447-8 S 19 '24; Engineer 138:266, 270-4, 300-4, sup i-xvi, 328-32, 358-62, 386-8, 415-18 S 5-O 10 '24; Engineering 118:309-21, 353-65, 397-408, 441-8, pl 28-34, 529 S 5-26 '24
Machine tools at the British Empire exhibition. il Engineering 117:553-4, 694-8, pl 53-4 Ap 25, My 30 '24
Machine tools at the British Empire exhibition. I. W: Chubb. il Am Mach 61:177-9 Jl 31 '24
Machine tools feature of the exhibit of the Railway supply manufacturers association, Atlantic City, N.J. Iron Age 113:1785-7 Je 19 '24
Model engineer exhibition, Westminster, Jan. 4-11. il Engineer 137:40-1 Ja 11 '24
National steel and machine tool exhibition at Cleveland. il Iron Tr R 77:716-19+ S 17 '25; Automotive Ind 53:544-6 S 24 '25; Iron Age 116:904-5+ O 1 '25

Fixtures

Applying jigs and fixtures to engine-block machining. J. G. Moohl. il Soc Auto Eng J 17:323-4+ O '25; Same, without il. Am Mach 63:584-5 O 8 '25; Same. Mach 32:179 N '25
Attachments for standard machines. A. A. Dowd. diags Mach 30:711-12 My '24
Convenient profiling fixture. I. B. Rich. il Am Mach 63:546 O 1 '25; Discussion. A. T. Gregory. 64:169 Ja 28 '26
Drilling and milling fixtures for airplane-instrument work. C: F. Henry. il Am Mach 61:853-4 N 27 '24
Estimating the cost of jigs and fixtures. W: F. Sandmann. diag Mach 31:427-8 F '25
Fixture and a jig for heavy work. K. S. Johnson. il Am Mach 62:286 F 12 '25
Fixture for machining an exhaust elbow. G: D. Wright. diags plans Am Mach 60:435-6 Mr 20 '24
Fixture for machining gear-case trunnions. H: C. Francis. il Am Mach 61:664 O 23 '24
Fixtures for Diesel-engine pump cases. F. H. Colvin. il Am Mach 63:317-18 Ag 20 '25
Fixtures for holding distributing and triple valves. H. J. Duernberger. diags Ry Mech Eng 99:116-17 F '25
Fixtures for machining shoes and wedges. F. C. Hudson. il diags Am Mach 63:495-7 S 24 '25
Fixtures used to build frames for noiseless typewriters. W. J. Bauer. il Am Mach 62: 483-6 Mr 26 '25
Gang fixtures for quantity production. F. L. Libgotte. diags Mach 31:625-9 Ap '25
Grinding fixtures for magnetic chucks. S. W. Brown. diags Mach 31:875 Jl '25
Hand knobs for jigs and fixtures; reference-book sheet. Am Mach 63:789 N 12 '25
Jigs and fixtures. F. U. Baker. diags Ry Mech Eng 98:691-2 N '24
Milling and boring fixtures for printing presses. R. E. Marks. il Am Mach 63:547 O 1 '25
Planing and milling fixture for the same kind of work. K. S. Johnson. il Am Mach 62:323 F 19 '25
Proportions for U-lugs for jigs and fixtures; reference-book sheet. diags Am Mach 63: 597 O 8 '25
Reaming, facing and tapping fixture. K. M. Bowlby. diags Mach 31:221-2 N '24
Some fixtures used in machining sewing-machine cams. F. O. Hickling. diags Am Mach 61:779-80, 817-18 N 13-20 '24
Summary of the solutions to the second prize problem; designing a fixture to hold work while metal is being removed. diags Am Mach 63:663-4, 967-8 O 22, D 17 '25
Temporary jigs and fixtures. S. W. Brown. diags Mach 31:292-3 D '24
Two handy machine tool attachments. H. H. Henson. il Ry Mech Eng 98:102 F '24

See also Arbors and mandrels; Chucks; Jigs

Gearing

Application of friction clutches to machine tool drives. S. H. Simon. diags Mach 32: 111-13 O '25
Application of silent chain drive to machine tools. C: R. Weiss. il Am Mach 61:873-6 D 4 '24
Silent gears for machine tools; properties of micarta gears and applications in the machine tool field. T. C. Roantree. il Mach 30: 363-4 Ja '24
Variable-voltage reversing planer drive. A. L. Harvey. il Mach 32:215-16 N '25

History

Master tools of industry. D. S. Kimball. il Am Mach 60:679-83, 723-7 My 8-15 '24

Lubrication

Lubrication of machine tools. A. F. Brewer. Am Mach 62:621-3 Ap 16 '25

Maintenance and repair

Analysis of machine-tool maintenance. A. R. Kelso. Soc Auto Eng J 17:385-8 O '25; Same cond. Am Mach 63:536-9 O 1 '25; Abstract. Automotive Ind 53:538 S 24 '25
Repair of machine equipment. H. Ellsworth. Am Mach 63:345-6 Ag 27 '25

Manufacture

Bestrebungen und fortschritte des grosswerkzeugmaschinenbaues. Weil. il diags Zeit Ver Deutsch Ing 69:249-56 F 21 '25
Card system to help the inspector. K. H. Crumrine. diags Am Mach 61:349-50 Ag 28 '24; Discussion. J. R. Ridlon. 61:726 N 6 '24
Fabrikorganisation und werkzeugmaschine. A. Wallichs. diags Zeit Ver Deutsch Ing 69:222-5 F 21 '25
Heat treating machine parts. E. F. Ross. il Iron Tr R 76:341-3 Ja 29 '25
Makes machine tool castings. P. Dwyer. il Foundry 52:957-62 D 15 '24
Making machine equipment for the tool room. C. A. Shaffer. Ry R 77:710-11 N 7 '25; Same. Ry Mech Eng 99:640-2 O '25; Same. Mach 32:313-14 D '25

MACHINE tools—Manufacture—*Continued*
Most economical number of parts to make at one set-up. J: M. Christman. chart Mach 32:182-3 N '25
Routing work in a machine tool plant. A. L. Baker. il Mach 32:175-8 N '25
Successful manufacturing methods in America. G. Schlesinger. Am Mach 62:929-31 Je 11 '25
Tool engineering. A. A. Dowd and F. W. Curtis. diags Am Mach 60:57-9, 135-7, 315-18, 365-8, 407-9, 443-5, 463-5, 591-3 Ja 10, 24, F 28-Mr 27, Ap 17 '24
Der werkzeugmaschinenbau des Rheinlandes. F. W. Hülle. il diags Zeit Ver Deutsch Ing 69:1043-8, 1071-5 Ag 1-8 '25

Records

Card record system for tool department. W: H. Kellogg. Mach 31:211 N '24

Replacement

See Machine shop management

Standard data sheets

Standard data sheets for machine tool builders and users. A. L. Evans. Am Mach 60: 381-6 Mr 13 '24; Same. Iron Tr R 74:1499-1503 Je 5 '24

Standardization

Standardization of machine tools. S. Einstein. diag Mech Eng 47:614-18 Ag '25; Same cond. Mach 31:991-4 Ag '25
Standardization of railroad shop tools. Mach 32:200 N '25

Testing

Foreign progress in cutting metals. C. A. Beckett. il diags Mech Eng 46:618-24 O '24

Valuation

Money lost by free appraisal service. E. F. Du Brul. Mach 30:796 Je '24

MACHINE work
Hardness governs machinability. J. Ward. il diags Foundry 53:684-7 S 1 '25
Manufacture of the bolt of the Springfield rifle. E. McFarland. il diags Mech Eng 46: 463-70; Discussion. 470-1 Ag '24
What modern machine tools are doing; Cleveland automatics; diagrams. Am Mach 61:234-5 Ag 7 '24
What modern machine tools are doing; Gisholt turret lathe; diagrams. Am Mach 61: 304-5 Ag 21 '24
Work of the bench lathe. F. D. Jones. il Mach 30:960-4; 31:26-31 Ag-S '24

See also Dividing (machine work); Machine shop practice; Turning

Study and teaching

Der technologieunterricht an technischen lehranstalten. Grunewald. diags Zeit Ver Deutsch Ing 69:664-71 My 9 '25

Tables, calculations, etc.

How to estimate machine shop costs. A. A. Dowd. chart diags Am Mach 60:567-8, 609-11, 685-8, 773-5, 795-7, 883-5, 963-6; 61:55-7, 149-52, 227-30, 299-302 Ap 17-24, My 8, 22-29, Je 12, 26, Jl 10, 24, Ag 7, 21 '24
Specifying material for screw machine products. S. Fisher. diags Am Mach 62:225-8 F 5 '25
Weight removed from sphere by boring. F. M. Weston, jr. Mach 30:301-2 D '23

MACHINE works
Planned for expansion in three directions; new plant Sullivan machinery co. G. L. Lacher. il plan Iron Age 113:141-6 Ja 10 '24

MACHINERY
Adequate equipment is more vital to us than ever. Factory 34:260-3+ F '25
Details of typical mechanisms. C. M. Linley. 109p Van Nostrand '23
Feinmechanik und maschinenbau. O. Richter. il diags Zeit Ver Deutsch Ing 68:1089-92 O 18 '24
Mechanics of machinery: part two—kinematics and dynamics. R. C. H. Heck. 550p McGraw-Hill '25
Precautions for starting new equipment. Power Pl Eng 28:1250 D 15 '24

See also Agricultural machinery; Assembling methods; Balancing machines; Balancing of machinery; Ball bearings; Bearings; Belting; Bleaching machinery; Bolts and nuts; Bookkeeping machines; Bottle-making machinery; Brakes; Bushings; Calculating machines; Casting machines; Centering; Clamps; Clutches; Coal mining machinery; Conveying machinery; Cotton machinery; Couplings; Cranes, derricks, etc.; Crankcases; Crankpins; Crankshafts; Crushing machinery; Cutting machines; Cylinders (engines); Disks; Dividing machines; Dredges; Drilling and boring machinery; Dyeing machines; Electric machinery; Engineering; Excavating machinery; Fans, Mechanical; Feed mechanism; Fits (machinery); Fitting (machinery); Folding machines; Forging machinery; Foundry machinery; Friction; Gas and oil engines; Gear cutting machines; Gearing; Glass working machinery; Grinding machines; Hoisting machinery; Hydraulic machinery; Hydraulic presses; Interchangeable mechanism; Inventions; Ironing machines; Jacks; Jigs; Keys and keyways (machinery); Knitting machines; Labor saving devices; Lathes; Laundry machinery; Linotype; Locomotives; Looms; Lubrication and lubricants; Machine shop practice; Machine tools; Machinery, Automatic; Machinery in industry; Mechanical drawing; Mechanical engineering; Mechanical handling; Mechanics; Milling machines; Mining machinery; Mixing machines; Molding machines; Moving picture machines; Packaging machinery; Packing; Paper making machinery; Patents; Pattern making; Planing machines; Pneumatic conveying; Pneumatic hammers; Pneumatic tools; Power transmission; Presses; Printing presses; Pulleys; Pumping machinery; Pumps; Refrigeration and refrigerating machinery; Road making machinery; Roller bearings; Rubber machinery; Scraping machines (metal work); Screw machines; Screws; Sewing machines; Shafting; Shafts; Shapers; Shoveling machines; Silk machinery; Sintering machines; Slotting machines; Spinning machinery; Springs (mechanism); Steam engines; Steam turbines; Sugar machinery; Swaging machines; Tabulating machines; Testing machines; Textile machinery; Thread cutting machines; Threshing machines; Tiering machines; Tolerance; Tools; Tractors; Trenching machinery; Turbines; Turning; Typesetting machines; Typewriters; Upsetting machines; Valves; Water wheels; Winches; Windmills; Wire drawing machines; Wire forming machines; Woodworking machinery; Woolen and worsted machinery

Alinement

See Alinement of machinery

Cleaning

Spray method of cleaning machinery. Mech Eng 47:752 S '25

Costs

Rubber machinery or hand labor? R. Polleys. India Rubber W 70:581-2 Je '24

Design

Checking mechanical design in the physical laboratory. J. A. Capp. il Am Mach 63: 621-3 O 15 '25
Coming—the patent-engineer. il Prof Eng 10:17-18 Jl '25
Design, manufacture, and production control of a standard machine. R. E. Flanders. il diags plans Mech Eng 46:873-8 D '24; Same. Iron Tr R 75:1573-8 D 11 '24; Same. Am Mach 61:881-8 D 4 '24
Design of engraving machines. L. Braren. il diags Mach 30:663-8 My '24
Design of inclinable power presses. P. A. Friedell. il diags Mach 29:376-9, 876-80; 30: 279-81, 626-8 Ja, Jl, D '23, Ap '24
Design of magazine attachments. A. A. Dowd. diags Mach 30:771-3 Je '24
Design of magazine attachments for irregular work. A. A. Dowd. diags Mach 30:847-50 Jl '24
Elasticity and high speeds. A. T. Kasley. Sci Am 130:161 Mr '24

MACHINERY—Design—*Continued*

Elements of machine design. S: J: Berard and E. O. Waters. 323p Van Nostrand '24

Intelligence in machine design. Am Mach 61: 928; 62:910 D 11 '24, Je 11 '25

Interlocking devices. A. Clegg. diags Mach 30:446-7, 526-8, 614-16 F-Ap '24

Machine design, construction and drawing. H: J. Spooner. 5th ed., rev. and enl. 762p Longmans '24

Machine design drawing room problems. C. D. Albert. 320p Wiley '23

Machine design, questions and problems. E. F. Garner. 155p Wiley '24

Planning for the manufacture of new products. W. Wilson. diags Ind Management (Lond) 10:267-9 N 15 '23

Principles of machine design. R. F. McKay. 408p Longmans '24

Principles of machine design. C. A. Norman. 710p Macmillan '25

Relation of materials to machine design. J. K. Wood. Am Mach 61:985-8 D 25 '24; Discussion. 62:798 My 21 '25

Vibration problem in engineering. C. R. Soderberg. diags Elec J 21:295-9, 330-4, 579-82 Je-Jl, D '24

See also Bearings; Cams; Clutches; Drafting room practice; Elastic limit; Gearing; Interchangeable mechanism; Machine tools—Design; Machinery, Automatic—Design; Machinery, Kinematics of; Shafts; Tolerance

Drawing

Machine drawing problems. E: Berg and G: Elleson. 148p Manual arts press '24

Erection

Vibration and noise; their isolation as affecting the erection of machinery. R. B. Grey. il diag Electrician 92:354-5 Mr 21 '24

Exhibitions

British Empire exhibition; engineering exhibits. il diags Engineer 137:430-6, 446, 466-70, 498-503, 528-33, 563-5, 570, 591-5, 600, 618-21, 646-50, 676-80, 704-7; 138:2-8, 14, 35-7, 46, 94-9, 122-6, 150-4, 178-9, 202-8, 212, 228-33, 254-8, 284-8, 312-16, 340-4, 398-400, 426-30, 454-8, 484-8 Ap 25-Jl 11, 25-S 26, O 10-31 '24; Engineering 117:529-54, 595-601, 665-9, 672, 689-92, pl 34-54 Ap 25, My 9, 23-30 '24

British industries fair, Birmingham, Feb. 13-27. Engineer 139:222-3, 238-40 F 20-27 '25; Engineering 119:234-6, 254-6, 257 F 20-27 '25

Fortschritte der metallbearbeitungstechnik unter berücksichtigung der Leipziger frühjahrsmesse. Buxbaum. il diags Zeit Ver Deutsch Ing 68:745-50, 798-802 Jl 19, Ag 2 '24

Leipzig fair. Engineering 119:295-6, 328-9 Mr 6-13 '25

Midwest power show, Milwaukee, May 18-21. il Power 61:889 Je 2 '25; Power Pl Eng 29: 670-2 Je 15 '25

National exposition, 2d, of power and mechanical engineering, New York. Power 58:904-9, 949-54 D 4-11 '23; Power Pl Eng 28:102-17 Ja 1 '24

National exposition, 3d, of power and mechanical engineering, New York. Blast F & Steel Pl 12:563-5; 13:29-30 D '24-Ja '25; Elec W 84: 1281-2 D 13 '24; Iron Tr R 75:1584-5 D 11 '24; Power 60:899-904, 940-8 D 2-9 '24

Some engineering features of the British Empire exhibition of 1925. il Elec R (Lond) 96:924-6 Je 12 '25

See also Foundry machinery—Exhibitions; Machine tools—Exhibitions; Mining machinery—Exhibitions

Foundations

Absorbo cork foundation pads. il Am Mach 63: 332 Ag 20 '25

Auxiliary equipment for blast and ventilating fans. C: L. Hubbard. diags Power 59:318-21 F 26 '24

Checking foundations for large turbines. diags Power 59:135-7 Ja 22 '24

Floor vibration insulation. il Management & Adm 7:447 Ap '24

Foundations for machinery are important. il diag Power Pl Eng 28:1213-14 D 1 '24

Foundations for small engines and motors. diag Power Pl Eng 27:1146-7 N 15 '23

Fractures in horizontal engine beds. E: Ingham. diags Power 62:688-9 N 3 '25

Installing bedplate under motor in limited time. J. Jacobs. diag Power 61:270 F 17 '25

Machinery fastenings. diags Marine Eng 29: 559-60 S '24

Making old foundation serve for new engine. F. S. Rutledge. diags Power Pl Eng 28:500 My 1 '24

Material for isolating machinery vibration; a Korfund plate. il diag Eng & Contr (Bldgs) 63:217 Ja 28 '25

New adjustable insert for machine mounting. il diag Arch & Bldg 56:72 Jl '24

Securing the engine on the foundation by the use of extension nuts. J. A. Carruthers. diags Power 62:694-5 N 3 '25

See also Steam turbines—Foundations

Inspection

Observation of high-speed mechanisms with the vibroscope. P: Davey. il Mach 32:19-21 S '25

See also Rotoscope

Kinematics

See Machinery, Kinematics of

Maintenance and repair

Profit-making factory equipment. B. A. Franklin. Management & Adm 9:149-52 F '25; Same. Brick & Clay Rec 66:987+ Je 23 '25

Manufacture

Die aufgaben der versuchsanstalten von maschinenfabriken. A. Kessner. diag Stahl & Eisen 44:317-19 Mr 20 '24

Ground flat stock. H. B. Schott. il Mach 31: 874-5 Jl '25

How modern handling was installed. M: W. Potts. il Ind Management 70:168-72 S '25

See also Assembling methods; Brakes—Manufacture; Machine works; Tolerance; *also* subdivision Manufacture under names of machines

Painting

Procedure for refinishing of heavy machinery. F: Krug. Ind Eng 82:345 Jl '24

Safety devices

Construction of machinery guards. il diags Nat Safety N 9:43-53 Ja '24

Designing the mechanical safeguard. F: S. Benedict. il Nat Safety N 9:25-6 Ap '24

Fabricating gear guards by welding. il diags Sheet Metal Worker 16:695 O 23 '25

F.O.B., completely equipped with standard guards. J: L. Thompson. Nat Safety N 11: 19-20 Je '25

Guards—their use and abuse. S. J. Williams. Safety Eng 47:311-12+ Je '24; Same. Blast F & Steel Pl 12:329-30 Jl '24; Same. Iron Tr R 74:1107-8 Ap 24 '24

How to make bevel wheel guards. W: Mason. diags Sheet Metal Worker 16:406+ Jl 3 '25

One way of making the safety dollar go farther. D. C. McGiehan. il Nat Safety N 10: 57-8 O '24

One way to take measurements and lay out machine guards. Ind Eng 83:248 My '25

Point of operation guards. J: M. Sandel. Nat Safety N 10:44 D '24

Practical safety devices for the bolt factory. A. L. Greene. il Nat Safety N 11:9-10 F '25

Reducing breakdowns and lost-time accidents in a large food products plant. R. R. Thomson. il Ind Eng 83:118-22+ Mr '25

Safety couplings for machine drives. F. O. Hickling. diags Am Mach 61:921-3 D 11 '24

See also Belt guards; Cranes, derricks, etc.—Safety devices; Grinding machines—Safety devices; Punching machinery—Safety devices; Refrigeration and refrigerating machinery—Safety devices

Standards

Standardization versus individuality. L. D. Burlingame. Mech Eng 46:529-30+ S '24

MACHINERY—*Continued*

Terminology

Nomenclature of machine parts. Am Mach 62: 476 Mr 19 '25

Testing

Checking mechanical design in the physical laboratory. J. A. Capp. il Am Mach 63: 621-3 O 15 '25

Photographic method of determining machine speeds. R. F. Mundorff. il Mach 30:782 Je '24

Spannungsmessungen an laufenden maschinen. J. Geiger. il diags Zeit Ver Deutsch Ing 68:265-8 Mr 15 '24

Test methods for the shop. D. A. Hampson. il diags Am Mach 60:325-8 F 28 '24

Transportation

Romance in shipping machinery. C. M. Ripley. Elec W 83:210-11 Ja 26 '24

See also Crates

Valuation

Rating of machinery. J. J. H. Stansfield. Elec R (Lond) 96:431-2 Mr 13 '25

Rating of machinery and plant; report of the Inter-departmental committee on practices in England and Scotland. Engineering 119: 233 F 20 '25

MACHINERY, Automatic

Automatic coil-winding machine. A. A. Dowd. diags Mach 31:964-6 Ag '25

Automatic milling. F. D. Jones. il diags Mach 30:919-25 Ag '24

Barnes drill company brings out new drill and tapper with self-indexing work table. il Iron Age 113:1286 My 1 '24

Bilton pro-ducto-matics. il Am Mach 63:167-8 Jl 23 '25

Designing an automatic groove-milling machine. A. A. Dowd. diags Mach 32:114-17 O '25

Double-end automatics designed for threading and chamfering operations. W. L. Carver. il Automotive Ind 53:139 Jl 23 '25

Economic efficiency of the full-automatic turret lathe in comparison with the semi-turret lathe. R. J. Wadd. Mech Eng 47:411-14 sec 2 My '25

Indexing mechanisms for automatic machinery. C. S. Seltzer. diags Am Mach 63:15-20 Jl 2 '25; Discussion. B. M. Fine. 63:913-15 D 3 '25

Intermittent motion mechanism. J. E. Fenno. diags Mach 31:475-6 F '25

Intermittent motion mechanism. A. W. Harris. il diags Mach 31:301-4 D '24

Multiple-spindle automatics. J. Horner. il diags Engineering 120:3-7, 93-7, 187-90, 405-7, 597-601 Jl 3, 24, Ag 14, O 2, N 13 '25

Die selbsttätigen arbeitsmaschinen. P. Kelle. il diags Zeit Ver Deutsch Ing 69:234-40, 289-94 F 21-28 '25

Triumphs of automatic machinery. H. C. Ridgely. il Am Exporter 94:7-12+ Je '24

Unusual range of operations possible with vertical automatic. W. L. Carver. il Automotive Ind 52:776-8 Ap 30 '25

Design

Design of magazine attachments. A. A. Dowd. diags Mach 30:771-3 Je '24

Design of magazine attachments for irregular work. A. A. Dowd. diags Mach 30:847-50 Jl '24

Design of magazine carriers and slides. A. A. Dowd. diags Mach 30:931-4 Ag '24

Designing automatic machines. A. A. Dowd. diags Mach 31:212-15 N '24

Designing automatic packing machinery. A. A. Dowd. diags Mach 31:463-6, 567-71, 723-6, 797-800; 32:42-5 F-Mr, My-Je, S '25

Hopper design for automatic machinery. A. A. Dowd. diags Mach 31:37-40 S '24

Valve mechanisms in automatic machinery for handling semi-fluid substances. A. A. Dowd. diags Mach 31:126-9 O '24

MACHINERY, Kinematics of

Graphical analysis of the Geneva stop. C. M. Conradson. diags Mach 32:212-14 N '25

Inertia curve. W. S. Cooper. Sibley J 39: 261-4 F '25

Internal friction theory of shaft whirling. A. L. Kimball, jr. il diags Gen Elec R 27:244-51 Ap '24

Kinematics; the analysis of complex rapid mechanical motions. A. W. Judge. il diags Automobile Eng 14:265-70 S '24

Operation of anti-friction bearings on crank-pin analyzed. J. Kirner. diags Automotive Ind 53:738-44 O 29 '25

See also Mechanical movements

MACHINERY, Replacement of. See Machine shop management; Machinery—Maintenance and repair

MACHINERY, Used

Buying second-hand machinery. J: Cassiday. Power 60:571-2 O 7 '24

Rational values of used machine tools. H. Ensminger. Am Mach 62:400 Mr 5 '25

See also Electric machinery, Used

MACHINERY in industry

Machinery and its effect upon the workers in the automotive industry. C: Reitell. Ann Am Acad 116:37-43 N '24

Machines—a factor in holding men. R. B. Williams. Ind Management 66:276-7 N '23

Philosophy of American industry. J. H. Barnes. Ptr Ink 126:160+ F 7 '24

Pressing machines; labor agreement. Monthly Labor R 20:850-1 Ap '25

Relation of machines to labor turnover. R. B. Williams. il Blast F & Steel Pl 13:5-8 Ja '25

Slaves of modern industry. W. H. Rastall. Iron Age 116:1024-6 O 15 '25

See also Labor saving devices

MACHINERY industry

Exports of machinery. W. H. Rastall. il Iron Age 113:1087 Ap 10 '24

Is the buyer responsible for the cost of machine equipment? H. Tipper. Automotive Ind 50:1038-9 My 8 '24

Loosely drawn contracts invite litigation; implied warranty of fitness of machinery for purpose purchased. L. Childs. Power Pl Eng 28:958-9 S 15 '24

New quirk in industrial marketing. Ptr Ink 129:26+ N 20 '24

1924 plans for machinery exports. W. H. Rastall. U S Bur For & Dom Com Trade Information Bul 212:1-28 '24

Problems of the mechanic and engineer. G: Cormack. Am Mach 62:1005-6 Je 25 '25

Six months in the machine shop field. Am Mach 61:81-6 Jl 17 '24

See also Agricultural machinery industry; Automobile industry and trade; Machine tool industry; Motor truck industry and trade; Tractor industry and trade; *also* National supply and machinery distributors' association

Advertising

How advertising can help sell heavy machinery. H. S. Strouse. Ptr Ink 127:89-90+ Ap 3 '24; Excerpt. Am Mach 60:574 Ap 17 '24

How Starrett and other industrial advertisers get effective illustrations. Ptr Ink 126:133-4+ Mr 6 '24

Industrial magazines. il Ptg Art 43:131-9 Ap '24

See also Washing machines, Electric—Advertising

Statistics

Manufacturing operations and the business cycle. W: L. Crum and H. B. Vanderblue. Harvard Business R 3:177-84 Ja '25

Value of machinery export statistics. W. Althoff. U S Bur For & Dom Com Trade Information Bul 204:1-6 '24

Austria

Produktionsverhältnisse der mechanischen industrien in österreich. O. Taussig. Zeit Ver Deutsch Ing 68:209-11 Mr 8 '24

MACHINERY industry—*Continued*

China

China's machinery imports mounting. Iron Tr R 74:610-11 F 28 '24
Shifts in machinery trade of China. Dun's Int R 43:60 Ap '24

Czechoslovakia

Machinery industry in Czecho-Slovakia. Mach 30:781 Je '24

See also Machine tool industry—Czechoslovakia

Europe

Europe recovers as machinery market. Iron Tr R 74:1634 Je 19 '24
Prospects in the foreign machinery trade. Mach 32:12-14 S '25

See also Machine tool industry—Europe

France

Automotive and agricultural industries keep French machinery trade active. Am Mach 63:454c S 10 '25
France increases its machinery buying from United States in 1924. Am Mach 62:256c F 5 '25
French machinery trade quiet. Am Mach 62: 1018g Je 25 '25
General development of machinery and allied industries in Alsace. Am Mach 62:868d My 28 '25

See also Machine tool industry—France

Germany

German machinery industry in 1923. Am Mach 60:160g-h Ja 24 '24
Kraftmaschinen im Rheinland. P. Langer. diags Zeit Ver Deutsch Ing 69:1023-30 Ag 1 '25
Our future competitor—Germany. W. H. Rastall. Am Mach 61:714c O 30 '24; Same. Iron Tr R 75:1308+ N 13 '24

See also Machine tool industry—Germany

Great Britain

British machinery business slumping. Iron Tr R 74:867-8 Mr 27 '24
England's hopes for machinery trade. Am Mach 60:528b Ap 3 '24
Great Britain increases purchases of machinery from United States. Am Mach 62:220a Ja 29 '25

See also Machine tool industry—Great Britain

India

India using American power machinery. Power 60:863 N 25 '24

Italy

Industrial machinery trade of Italy. A. A. Osborne. U S Bur For & Dom Com Trade Information Bul 169:1-20 '23

See also Machine tool industry—Italy

Japan

Japan's probable machinery requirements. W H. Rastall. charts Iron Age 112:1715-17 D 27 '23

Spain

Spain as a potential machinery market under the new dictatorship. Am Mach 60:490b Mr 27 '24

Sweden

Swedish machinery industry. Mach 30:709 My '24

United States

Business outlook in the machinery field. Mach 30:515-16 Mr '24
Business outlook in the machinery field. Mach 31:357-61 Ja '25
Exporting machinery on credit. W. H. Rastall. Am Mach 62:965-8 Je 18 '25; Same abr. Iron Tr R 75:1572-4 Je 18 '25
Industrial review. Published in weekly numbers of American machinist
Machinery export expansion. diag Iron Age 113:1728 Je 12 '24
Machinery exports increasing. Iron Tr R 76: 1068-9 Ap 23 '25
Metal products foremost in export gains in 1923. Iron Age 113:1429-30 My 15 '24
Opinions of business leaders. Mach 31:351-5 Ja '25
Six months in the machine shop field. K. H. Condit and others. Am Mach 60:73-9 Ja 17 '24

See also Machine tool industry—United States

MACHINISTS

Development of machine tools in New England. G. Hubbard. Am Mach 60:437-41 Mr 20 '24
Famous machinists of history. H. H. Manchester. Am Mach 60:728, 758, 802, 850; 61: 54, 240, 264, 344, 370, 492, 545, 658, 690, 729, 756, 816, 852, 895, 924, 962, 992; 62:237, 268, 355, 427, 462 My 15-Je 5, Jl 10, Ag 7-14, 28-S 4, 25-O 2, 23-D 25 '24, F 5-12, 26, Mr 12-19 '25
Filling the ranks of machinists. J: C. Spence. Am Mach 60:473-4 Mr 27 '24; Discussion. 60:740; 61:53 My 15, Jl 10 '24
Getting the best men in the machine business. W: Newman. Am Mach 61:139 Jl 24 '24; Discussion. G: S: Harris. 61:336 Ag 28 '24
Old time, all around machinist. F. A. Chase. Am Mach 60:918 Je 19 '24
What is a skilled man? M. R. Lott. Ind Management 69:179-82 Mr '25

See also Automobile mechanics; Machine shops—Employees

MCINTOSH, Joseph W., 1873-

Portrait. Am Bankers Assn J 17:438 Ja '25

MACK trucks, incorporated

Annual report, 1923. Comm & Fin Chr 118: 1291-2 Mr 15 '24
Financial statement. Comm & Fin Chr 119: 1076-7 Ag 30 '24

MACKAY companies

Annual report year ended Dec. 31, 1923. Comm & Fin Chr 118:1389 Mr 22 '24
Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:2545-6 My 16 '25

MACKAY process. See Copper metallurgy—Electrometallurgy

MCKENNA, Joseph

Attorney-general Harlan F. Stone named as associate justice of United States Supreme court, succeeding Joseph McKenna, resigned. Comm & Fin Chr 120:148-50 Ja 10 '25

MACKENZIE, Sir William, 1849-1923

Appreciation. H: K. Wicksteed. Eng N 91: 1011 D 20 '23
Sketch. por Can Eng 45:578 D 11 '23

MACKINAW coats. See Overcoats

MCKINNEY steel company

From receivership to many millions; amazing record of McKinney steel revealed. J: W. Hill. il Iron Tr R 76:1379+ My 28 '25
Price McKinney. Iron Tr R 76:1382-3 My 28 '25

MACLAREN, T.

Drawings and sketches by T. MacLaren, A.I.A. J. F. Harbeson. Am Arch 127:267-8, pl 69-76 Mr 25 '25

MCLAUGHLIN, Donald H., 1891-

Mining engineers of note. por Eng & Min J 120:444 S 19 '25

MACLAURIN process

Gas producer methods in carbonizing coal; the Maclaurin process. C. H. S. Tupholme. diag Chem & Met Eng 29:1138-40 D 24 '23; Same cond. Gas Age 53:37-9 Ja 12 '24
Maclaurin process at Glasgow. Chem Age (Lond) 13:298 S 19 '25

MACLENNAN, F. W.

Sketch. por Eng & Min J 118:324 Ag 30 '24

MACLURIN

Constitution of catechin; the production of maclurin from acacatechin. E. O. Hazleton and M. Nierenstein. Am Chem Soc J 46: 2100-5 S '24

MACMILLAN company, New York city
Macmillan building. Arch & Bldg 57:50, pl 122-3 Je '25
New building for the Macmillan company, Fifth Avenue, New York; views and plans. Am Arch 127:pl 157-61 Je 17 '25

MCNARY-Haugen bill. See Agricultural laws and legislation—United States

MACON, Georgia
Macon; its growth in industry and agriculture. W. E. Cobb. il Manuf Rec 88:75-82 Jl 16 '25

MACY, R. H., and company, New York
Addition to department store of R. H. Macy & co., inc., New York. R. D. Kohn. il diags plans Am Arch 125:530a-7 Je 4 '24
Improving department store technique. B. E. Lies. Taylor Soc Bul 10:185-90 Ag '25
Power problems of Macy's department store. il plans Power Pl Eng 27:1215-20 D 15 '23
R. H. Macy & co. claim $100,000 yearly power saving. il Power 61:903 Je 9 '25
R. H. Macy & co.'s department store addition, New York city. Arch & Bldg 56:83-5, pl 174-6 S '24
R. H. Macy power plant changes from coal to oil burning. il Power 58:910-12 D 4 '23
Report of Macy's power plant for the year 1924. Power 62:15 Jl 7 '25
When Brisbane wrote advertising copy. Ptr Ink 133:25-6+ O 1 '25

MADAGASCAR
Development of Madagascar. M. Olivier. Engineering 119:283-4 Mr 6 '25
Madagascar. E. A. Welden. U S Bur For & Dom Com Trade Information Bul 163:1-17 '23

See also Geology—Madagascar; Mines and mineral resources—Madagascar; Petroleum—Madagascar; Water power—Madagascar

MADE to order goods. See Job work; Special orders

MADISON, Wisconsin
Engineering in the small city. Eng N 95:755-6 N 5 '25

Rapid transit
Getting an adequate fare. J: S. Allen. Aera 13:1282-8 Mr '25
Madison road does well. Elec Ry J 66:108 Jl 18 '25
Wisconsin commission recommends double tracking most of system and purchase of new cars. Elec Ry J 63:592 Ap 12 '24

MADISON Square Garden. See New York (city)—Madison Square Garden

MADRID, Spain

Water supply
Madrid water supply. map Engineering 119:222 F 20 '25; Same. Eng & Contr (W W) 64:103-5 Jl 8 '25

MAGADI, Lake
Competitor of American soda; deposit of Lake Magadi. il Chem & Met Eng 30:180 F 4 '24
Soda deposits of Lake Magadi in Kenya. Soc Chem Ind J (Chem & Ind) 43:872 Ag 29 '24

MAGADI soda company
Magadi soda co., ltd. Soc Chem Ind J (Chem & Ind) 44:463-4 My 1 '25

MAGAZINES. See Periodicals

MAGMA. See Ore deposits

MAGNESIA
British magnesia works. il Chem Age (Lond) 11:286 S 20 '24
Laboratory production of pure magnesia ware. R. F. Mehl, J. L. Whitten and D. P. Smith. Ind & Eng Chem 17:1171-2 N '25
Lime and magnesia; the chemistry, manufacture and uses of the oxides, hydroxides and carbonates of calcium and magnesium. N. V: S. Knibbs. 306p E. Benn, ltd., London '24
Photometric method for magnesia in Portland cement. W. E. Haskell. Concrete (cement mill sec) 27:1-2 Jl '25
Tests of caustic magnesia made from magnesite from several sources. P. H. Bates, R. N. Young and P. Rapp. U S Bur Stand Tech Pa 239:529-58 '23; Excerpts. Am Arch 124:567 D 19 '23
Ueber den einfluss der tonerde und der magnesia auf die chemischen eigenschaften der silikatschlacken. R. Durrer. Stahl & Eisen 45:346-8 Mr 5 '25

MAGNESITE
American magnesite handicapped. Iron Tr R 74:1048+ Ap 17 '24
Austrian magnesite industry now active. Eng & Min J 119:246 F 7 '25
Enormous magnesite deposit in Manchuria. H. Nishihara. diags map Eng & Min J 119:488-9 Mr 21 '25
Foreign magnesite producers form export syndicate. Eng & Min J 119:600 Ap 11 '25
Magnesite; commercial sources and trade. C: G. Yale. U S Bur For & Dom Com Trade Information Bul 184:1-19 '24
Magnesite deposits and production in Venezuela. Eng & Min J 120:587 O 10 '25
Magnesite deposits of Manchuria. K. Niinomy. il Econ Geol 20:25-53 Ja '25
Magnesite floor in industry. H. B. Kilmer. Ind Management 69:368-71 Je '25
Magnesite in 1924. Eng & Min J 119:842 My 23 '25; Same. Iron Age 115:1194 Ap 23 '25; Same. Concrete (cement mill sec) 27:5 Jl '25
Magnesite mining at Red mountain, Calif. G: J. Young. flow sheet il diag Eng & Min J 120:178-80 Ag 1 '25
Tariff on magnesite. Iron Age 112:1590 D 13 '23; Iron Tr R 73:1590 D 13 '23
Types of magnesite deposits and their origin. G: W. Bain. Econ Geol 19:412-33 Ag '24; Discussion. H. W. Turner. 20:197-8 Mr '25
United States magnesite production shows big increase in 1923. Eng & Min J 117:683 Ap 26 '24; Same. Iron Age 113:1140 Ap 17 '24
Veitscher magnesitwerke. il Zeit Ver Deutsch Ing 68:247-8 Mr 8 '24
Washington magnesite plant. G: J. Young. il Eng & Min J 119:440-2 Mr 14 '25

Bibliography
Bibliography of magnesite refractories. 41p American ceramic society, Refractories division, Columbus, O. '24

MAGNESIUM
Assay of zinc ores; use of powdered magnesium for removing copper and lead. E. G. R. Ardagh and G. R. Bongard. Ind & Eng Chem 16:300-1 Mr '24
Attempted electrolytic separation of the isotopes of chlorine and magnesium. J: E. G. Pilley. Philos Mag 6th ser 49:889-99 My '25
First magnesium propeller successfully tested. il Aviation 18:248 Mr 2 '25
Further experiments on the periodic dissolution of metals. E. S. Hedges and J. E. Myers. Chem Soc J 127:445-9 F '25
Magnesium. Chem & Met Eng 31:383-6 S 8 '24; Abstract. Engineer 139:sup54-5 Ap 24 '25
Magnesium; a handbook of information and data relating to the use of magnesium and magnesium alloys. 177p American magnesium corporation, Niagara Falls, N.Y. '23
Magnesium and its alloys. S. Daniels. il diag Mech Eng 47:796-9 O '25
Marketing magnesium. S. K. Colby. Eng & Min J 118:51-3 Jl 12 '24
Metallurgy of magnesium. M. Miyake and A. Butts. il Eng & Min J 119:843-6 [bibliog. p. 846] My 23 '25
New process of making magnesium. Eng & Min J 118:738 N 8 '24
Optical constants of magnesium and zinc crystals. M. E. Graber. il diag Phys R 26:380-9 S '25
Production of metallic magnesium from fused salts. W: G. Harvey. diags Am Electrochem Soc Trans v 47 (preprint 21):229-41 Ap '25; Same. Chem & Met Eng 32:573-6 Je '25
Reaction between *p*-dibromobenzene and magnesium. H. S. Pink. Chem Soc J 123:3418-20 D '23

MAGNESIUM—*Continued*
Reducing the fire hazard in handling magnesium. H: C. Francis. Am Mach 61:139 Jl 24 '24

See also Magnesia; Magnesite; Magnesium founding

MAGNESIUM alloys
Cast alloys of aluminium containing small amounts of magnesium. S: Daniels. il Ind & Eng Chem 16:1243-9 D '24
Light alloy connecting rods. diags Automobile Eng 15:47 F '25
Light alloys for pistons and connecting-rods. L. Aitchison. il Automobile Eng 14:148-55 My '24; Same. Automotive Ind 50:924-31, 970-3 Ap 24-My 1 '24
Magnesium. Chem & Met Eng 31:383-6 S 8 '24; Abstract. Engineer 139:sup54-5 Ap 24 '25
Magnesium and its alloys. S. Daniels. il diag Mech Eng 47:796-9 O '25
Preparation of pure alloys. R. F. Mehl. Am Electrochem Soc Trans v 46 (preprint 2): 9-36 O '24
Resistance of metals to repeated static and impact stresses. R. R. Moore. il Am Soc T M Pro 24 pt 3:547-73 '24

See also Electron metal

MAGNESIUM aluminum chloride
Reactions in phosgene solution; formation of chloraluminates. A. F. O. Germann and K. Gagos. diags J Phys Chem 28:965-72 S '24

MAGNESIUM carbonate
Influence of glue on the reinforcing effect of light magnesium carbonate in rubber. H. W. Greider. Ind & Eng Chem 16:151-5 F '24; Abstract. India Rubber W 70:446-8 Ap '24

See also Dolomite; Magnesite

MAGNESIUM chloride
Handling salt solutions. Chem & Met Eng 31: 68-9 Jl 14 '24
Des verhalten von eisen, rotguss und messing in salzhaltigen wässern bei gewöhnlicher temperatur und bei den im dampfkessel herrschenden temperaturen und drücken. O. Bauer. il diags Stahl & Eisen 45:1101-9 Jl 9 '25

MAGNESIUM compounds
Some reactions of substituted mercaptomagnesium halides. H. Gilman and W. B. King. Am Chem Soc J 47:1136-43 Ap '25

See also Grignard reagent

MAGNESIUM fluoride
Crystal structure of magnesium fluoride. H. E. Buckley and W. S. Vernon. Philos Mag 6th ser 49:945-51 My '25

MAGNESIUM founding
Explains use of magnesium. H. J. Maybrey. il Foundry 52:96-9 F 1 '24; Excerpt. Metal Ind 21:398-9 O '23

MAGNESIUM halides
See also Grignard reagent

MAGNESIUM oxide. See Magnesia

MAGNESIUM oxychloride cement. See Cement —Magnesium oxychloride cement

MAGNESIUM perchlorate trihydrate
Magnesium perchlorate trihydrate; its use as drying agent for steel and organic combustion analysis. G. F. Smith, M. Brown and J: F. Ross. Ind & Eng Chem 16:20-2 Ja '24

MAGNESIUM silicate
See Talc

MAGNESIUM stannide
Crystal structure of magnesium stannide. L. Pauling. Am Chem Soc J 45:2777-80 D '23

MAGNESIUM sulfate
Action of sodium and magnesium sulfates on constituents of Portland cement. G. R. Shelton. il Ind & Eng Chem 17:589-92 Je '25
Disintegration of Portland cement in sulfate waters. T. Thorvaldson, R. H. Harris and D: Wolochow. Ind & Eng Chem 17:467-70 My '25
System magnesium sulfate—sodium sulfate—water and a method for the separation of the salts. E. H. Archibald and W. A. Gale. diags Am Chem Soc J 46:1760-71 Ag '24
Das verhalten von eisen, rotguss und messing in salzhaltigen wässern bei gewöhnlicher temperatur und bei den im dampfkessel herrschenden temperaturen und drücken. O. Bauer. il diags Stahl & Eisen 45:1101-9 Jl 9 '25

MAGNETIC analysis. See Magnetic testing

MAGNETIC chucks. See Chucks, Magnetic

MAGNETIC clutches. See Clutches, Magnetic

MAGNETIC contactors
Broken shading coil caused a.-c. magnet to chatter. B. A. Briggs. diag Power 60:426 S 9 '24

MAGNETIC field
Effect of a magnetic field on the electrical resistance of liquid metals and alloys. E. J. Williams. diags Philos Mag 6th ser 50: 27-46 Jl '25
Electrical resistance of mercury in magnetic fields. T. J. Jones. diags Philos Mag 6th ser 50:46-60 Jl '25
Extremely intense magnetic fields. T. F. Wall. Elec R (Lond) 95:994-5 D 26 '24; Same cond. Electrician 93:726+ D 26 '24
Nature of the magnetic field produced by the stator of a three-phase induction motor, with special reference to pole-changing motors. F. J. Teago. Inst E E J 61:1087-96 O '23; Discussion. 62:178-80 F '24
Proposed test of the space quantization of atoms in a magnetic field. A. E: Ruark and G. Breit. Philos Mag 6th ser 49:504-8 F '25
Radiating atoms in magnetic fields. P. Zeeman. il J Fr Inst 199:585-96 My '25
Rotating magnetic field theory of a-c motors. K. L. Hansen. Am Inst E E J 44:170-8 F '25
Studies of electric discharges in gases at low pressures; the use of spherical collectors and the effects of magnetic fields. I. Langmuir and H. Mott-Smith, jr. diag Gen Elec R 27:810-20 D '24
Thermal conductivity of bismuth in a transverse magnetic field. F. A. Ward. diags Philos Mag 6th ser 48:971-7 N '24
Über magnetfelder mit veränderlicher bewegungsgeschwindigkeit; abstract. N. Japolsky. Elektrotech Zeit 45:1449-50 D 25 '24

See also Electromagnetic waves; Hall effect; Optical rotation; Zeeman effect

MAGNETIC flux
Ampere-turns for saturated teeth. V. Karapetoff. Elec W 83:1231 Je 14 '24
Calculation of air-space flux. W. Cramp and N. I. Calderwood. diags Inst E E J 61:1061-71 O '23
Tooth pulsation in rotating machines. T. Spooner. diags Am Inst E E J 43:646-50 Jl '24; Discussion. 43:1175-6 D '24

See also Magnetic field

MAGNETIC induction
Charging effect produced by the rotation of a prolate iron spheroid in a uniform magnetic field. E. Lawrence. diag Philos Mag 6th ser 47:842-7 My '24
Faraday's magnetic lines as quanta. H. S. Allen. diags Philos Mag 6th ser 48:429-45 S '24

See also Hysteresis; Magnetic flux

MAGNETIC measurements
Application of oscillating valve circuits to the determination of magnetic susceptibilities for steady fields. J. E. P. Wagstaff. Philos Mag 6th ser 47:76-9 Ja '24
Characteristics of iron in high frequency rotating magnetic fields. L. Tonks. Phys R 23:221-38 F '24
Magnetic susceptibility of helium, neon, argon, and nitrogen. L. G. Hector. diag Phys R 24:418-25 O '24
Magnetic susceptibility of oxygen, hydrogen and helium. A. P. Wills and L. G. Hector. diags Phys R 23:209-20 F '24

MAGNETIC measurements—*Continued*

Null method of measuring the gyro-magnetic ratio. W. Sucksmith and L. F. Bates. J Fr Inst 197:555-6 Ap '24

See also Magnetic permeability; Magnetic testing; Permeameter

MAGNETIC permeability

Checking the magnetic permeability of iron. P. B. Findley. il Sci Am 133:233 O '25

Effect of a superposed alternating field on apparent magnetic permeability and hysteresis loss. T. Spooner. diags Phys R 25: 527-40 Ap '25

Properties and testing of magnetic materials. T. Spooner. diags Elec J 22:78-82, 180-6, 230-4, 508-14, 554-8, 610-17 F, Ap-My, O-D '25 (to be cont)

MAGNETIC separators

Electro-magnet plant for separating coke from clinker. Gas Age 55:117 Ja 24 '25

Feuerungsrückstände in grosskraftwerken. Ullrich. il Zeit Ver Deutsch Ing 69:845-6 Je 20 '25

Fuel recovery from pan ash; dry-magnetic separating system. il diag Gas J (Lond) 165:200-1 Ja 23 '24; Chem Age (Lond) 10: 165 F 16 '24

Inspection of the magnetic process for the recovery of fuel from ashes. il Gas J (Lond) 167:387-8 Jl 23 '24

Magnetic protection and separation. E. A. Wilcox. il J Elec 53:326-9 N 1 '24

Magnetic recovery of combustible in boiler plant refuse. R. Kudlich. U S Bur Mines Rep of Invest 2634:1-2 S '24 (typew); Excerpts. Power Pl Eng 28:1066 O 15 '24

New iron ore concentrator. il Iron Age 114: 320 Ag 7 '24

Recovering unburned fuel and other matter from ash. C. H. S. Tupholme. il diags Gas Age 53:679-82 My 17 '24

Removing combustible matter from ash and separating tramp iron from coal. Elec R (Lond) 94:910-11 Je 6 '24

MAGNETIC surveying

Geodetic survey issues pamphlet on magnetic declination in Florida. N. H. Heck. Eng N 93:718 O 30 '24

Surveying the oceans with the non-magnetic yacht Carnegie. J. P. Ault. il Sci Am 133: 46-7 Jl '25

MAGNETIC susceptibility. See Magnetic measurements

MAGNETIC testing

L'aimantation de l'acier produite par la traction. L. Fraichet. Génie Civil 84:495-8 My 24 '24

Detecting flaws by magnetic analysis. R. L. Sanford. diag Elec W 86:309-10 Ag 15 '25

Effect of changes in total carbon and in the condition of carbides on the specific resistance and on some magnetic properties of steel. E. D. Campbell and G. W. Whitney. il Iron & Steel Inst J 110:291-311 no 2 '24

Effect of stress on the magnetic properties of steel wire. R. L. Sanford. U S Bur Stand Sci Pa 496:681-95 '24

Elements of magnetic analysis. E. H. Crapper. diags Engineering 117:452-4, 601-2, 660-2, 786-8, 816-17 Ap 11, My 9, 23, Je 20-27 '24; Discussion. S. L. Gokhale. 119:731 Je 12 '25

Exploring within the steel; how magnetic analysis indicates the presence of flaws in rails and beams and hoisting cables. A. G. Ingalls. il Sci Am 130:316-17+ My '24

Field of magnetic testing broad. il Iron Tr R 75:663-5 S 11 '24

Finding cracks in axles and pinions by electro-magnetic method. il Aera 14:779-80 N '25

How to construct and use an armature-testing magnet. A. C. Roe. diags Power 60:297-8 Ag 19 '24

Magnetic analysis. T. Spooner. il Elec J 22: 113-20 Mr '25

Magnetic analysis needs more study. R. L. Sanford. il Iron Tr R 77:555-9+ S 3 '25

Magnetic and electrical properties of the ternary alloys FE-SI-C. T. D. Yensen. Am Inst E E J 43:558-67 Je '24

Magnetic rail tester. Electrician 95:9 Jl 3 '25

Magnetic testing applied to discover hidden defects in turbine wheels. il Iron Age 115: 1835 Je 25 '25

Magnetic testing of small specimens. T. F. Wall. Engineering 117:293-5 Mr 7 '24; Abstract. Automotive Ind 50:934-5 Ap 24 '24; Discussion. E. A. Watson. Engineering 117: 368 Mr 21 '24

Magnetic tests of A.S.T.M. drills. W. B. Kouwenhoven. diags Am Soc T M Pro 24 pt 2: 635-50 '24

Magnetische prüfmethoden, insbesondere von dauermagneten. J. Würschmidt. Stahl & Eisen 44:1727-34 D 18 '24

Mechanical and magnetic hardness. K. Heindlhofer. diags Iron Age 116:606-8 S 3 '25

New method of magnetic inspection. A. V. de Forest. diags Am Soc T M Pro 23 pt2: 611-21; Discussion. 622-5 '23

Properties and testing of magnetic materials. T. Spooner. bibliog diags Elec J 22:78-82, 132-5, 180-6, 230-4, 394-401, 441-6, 508-14, 554-8, 610-17 F-My, Ag-D '25 (to be cont)

Ueber den einfluss des verformens und des anlassens auf die magnetischen eigenschaften der ferromagnetischen metalle unter besonderer berücksichtigung der blauwärme nebst einem hinweis auf die anlasssprödigkeit. Stahl & Eisen 44:1746-7 D 18 '24

Value of commercial magnetic testing. T. Spooner. Elec J 21:374-7 Ag '24

MAGNETISM

Anhysteretic qualities of iron and nickel and the energy change at the critical temperature. J. R. Ashworth. Philos Mag 6th ser 47: 848-59 My '24

Cobalt magnet steels. E. A. Watson. Engineering 118:274-6, 302-4 Ag 22-29 '24

Contribution to the theory of ferromagnetism. L. W. McKeehan. Phys R 26:274-9 Ag '25

Effect of changes in total carbon and in the condition of carbides on the magnetic properties of steel. A. W. Smith, E: D. Campbell and W: L. Fink. diag Phys R 23:377-85 Mr '24

Electric and magnetic spectroscopy. W. Arkadiew. Philos Mag 6th ser 50:157-63 Jl '25

Ferromagnetism and its dependence upon chemical, thermal and mechanical conditions. L. W. McKeehan. J Fr Inst 197:583-602, 757-83 My-Je '24; Bibliography. 197:783-6 Je '24

Frequency multiplication; principles and practical applications of ferro-magnetic methods. N. Lindenblad and W. W. Brown. diags Am Inst E E J 44:469-73 My '25

Magnetic and electrical properties of cast iron; abstracts. J. H. Partridge. Engineering 120:402 S 25 '25; Elec R (Lond) 97:554-5 O 2 '25

Magnetic properties of atoms and molecules. B. H. Wilsdon. Philos Mag 6th ser 49:1145-64 Je '25

Magnetic properties of cast iron. H. O'Neill. bibliog Electrician 95:152+ Ag 7 '25

Magnetic properties of thin films of ferromagnetic metals produced by the evaporation method. A. J. Sorensen. diags Phys R 24: 658-65 D '24

Magnetism and electricity. J. P. Yorke. New ed. 248p E. Arnold & co., London '22

Magnetism of oxygen and the molecule O_4. G. N. Lewis. Am Chem Soc J 46:2027-32 S '24

Die magnetischen umwandlungen der ferromagnetischen metalle. R. Ruer and K. Bode. Stahl & Eisen 45:1184-9 Jl 9 '25

Magnetochemical theory. G. N. Lewis. Chem R 1:231-48 Jl '24

Modern school electricity and magnetism. R. G. Shackel. 250p Longmans '25

Recent developments in the theory of magnetism. C: G. Darwin. Engineering 119:693-4 Je 5 '25

Reluctivity of the recently discovered magnetic metal, permalloy. A. E. Kennelly. J Fr Inst 197:623-7 My '24

MAGNETISM—*Continued*
Simple method of calculating magnetic conditions in electrical machinery. C. Macmillan. Gen Elec R 28:302-11 My '25

See also Compass; Electricity; Electromagnetic theory; Electromagnetism; Electromagnets; Hysteresis; Magnetic measurements; Magnetic surveying; Magnetization; Magnetomotive force; Magneto-optics; Magnetos; Magnetostriction; Magnets; Photomagnetic effect; Thermomagnetism

MAGNETISM, Terrestrial
Anomalies in terrestrial magnetism and in gravitation found in the province of Kursk, Russia. P. Lasareff. J Fr Inst 199:112 Ja '25

See also Auroras; Magnetic surveying

MAGNETITE
Commercial possibilities of the magnetite slates of the Cuyuna range. G: A. Thiel. il map Eng & Min J 118:735-8 N 8 '24
Genesis of the Adirondack magnetites. H. L. Alling. bibliog diags Econ Geol 20:335-63 Je '25
Magnetite iron deposits of southeastern New York. R. J. Colony. 161p Univ. of state of N.Y., Albany '23
Magnetite segregation in banded syenite in Minnesota. F. F. Grout. il map Econ Geol 20:424-30 Ag '25
Magnetostriction of a magnetite crystal. C. W. Heaps. diag Phys R 24:60-7 Jl '24
Sedimentary phases of the Adirondack magnetic iron ores. F. L: Nason. Econ Geol 17: 633-54 D '22; Discussion. 17:709-13; 18:291-6; 19:288-97 D '22, Ap '23, Ap '24
Some magnetite-hematite relations. G. Gilbert. il Econ Geol 20:587-96 S '25
Two-stage transformation of magnetite into hematite. L. A. Welo and O. Baudisch. diags Philos Mag 6th ser 50:399-408 Ag '25

MAGNETIZATION
Barkhausen effect. E. P. T. Tyndall. il diags Phys R 24:439-51 O '24
Effect of a superposed alternating field on apparent magnetic permeability and hysteresis loss. T. Spooner. diags Phys R 25:527-40 Ap '25
Effect of tension upon magnetization and magnetic hysteresis in permalloy. O. E. Buckley and L. W. McKeehan. Phys R 26: 261-73 Ag '25
Natural and the artificial permanent magnetization of rocks. F. Loewinson-Lessing and V. Mitkewitch. J Fr Inst 199:844 Je '25
Properties and testing of magnetic materials. T. Spooner. Elec J 22:78-82 F '25

See also Magnetostriction

MAGNETO-OPTICS
Magnetic rotary dispersion of certain paramagnetic solutions. R. W. Roberts. Philos Mag 6th ser 49:397-422 F '25
Magnetization of spectrum lines; reminiscences and prospects. P. Zeeman. J Fr Inst 200:305-11 S '25
Zeemaneffekt und multiplettstruktur der spektrallinien. E. Back and A. Landé. 213p J. Springer, Berlin '25

See also Polarization (light); Zeeman effect

MAGNETO-resistance
Theory of galvanomagnetic phenomena in flames. C. W. Heaps. Phys R 24:652-7 D '24

MAGNETO-spectral effects
Significance of spectroscopic magneton numbers. E. C. Stoner. Philos Mag 6th ser 49: 1289-1309 Je '25

MAGNETOMOTIVE force
Variation of magnetic potential. A. A. Ahmed. Electrician 93:122-3 Ag 1 '24

MAGNETOS
Combined electric generator and magneto announced by Robert Bosch. il diag Automotive Ind 50:295-6 F 7 '24
Generator and magneto combined. il diags Bus Transportation 3:272 Je '24
Les magnétos pour moteurs à explosion. F. Collin. il diags Génie Civil 84:426-30, 447-52 My 3-10 '24
Scintilla magneto for aircraft engines. il Aviation 18:284 Mr 16 '25

MAGNETOSTRICTION
Anhysteretic magnetostrictive effects in iron, nickel and cobalt. P. McCorkle. Phys R 25:541-9 Ap '25
Contribution to the theory of ferromagnetism. L. W. McKeehan. Phys R 26:274-9 Ag '25
Effect of crystal structure on magnetostriction. C. W. Heaps. diags Phys R 22:486-501 N '23
Magnetostriction of a magnetite crystal. C. W. Heaps. diag Phys R 24:60-7 Jl '24

MAGNETRON
Theory of the magnetron taking into account the variation of the mass of the electron with velocity. L. Page. diag Phys R 25:841-5 Je '25

MAGNETS
Automatic punch press feed operated by a magnet. W. A. Richards. diags Am Mach 62:704-5 Ap 30 '25
Le cobalt et ses récentes applications. L. Guillet. Soc Ing Civils Bul 77:699-706 O '24
Magnet cleans road. il Eng & Contr (R & S) 64:1033 N 4 '25
Magnetische prüfmethoden, insbesondere von dauermagneten. J. Würschmidt. Stahl & Eisen 44:1727-34 D 18 '24
Properties and testing of magnetic materials. T. Spooner. diags Elec J 22:394-401 [bibliog. p. 401] Ag '25
Temperature errors in induction watthour meters; an analysis and the development of a temperature-sensitive magnetic material suitable for compensation. I. F. Kinnard and H. T. Faus. Am Inst E E J 44:241-8 Mr '25; Discussion. 44:523-5 My '25
Ueber chromstahl für dauermagnete. P. Oberhoffer and O. Emicke. Stahl & Eisen 45:537-40 Ap 9 '25
Über magnetstahl. G. Hannack. Zeit Ver Deutsch Ing 69:764-5 My 30 '25
Ueber magnetstahl unter besonderer berücksichtigung der beziehungen zwischen kohlenstoff und den magnetischen eigenschaften. G: Hannack. Stahl & Eisen 44:1237-43 O 9 '24

See also Electromagnets; Lifting magnets

Manufacture
Economic aspect of the utilization of permanent magnets in electrical apparatus. E. A. Watson. diags Inst E E J 63:822-34; Discussion. 834-8 Ag '25
Permanent magnets in theory and practice. S. Evershed. diags Inst E E J 63:725-810 Ag '25; Abstracts. Elec R (Lond) 96:514-15 Mr 27 '25; Electrician 94:394-5+ Ap 3-'25; Discussion. Inst E E J 63:810-21 Ag '25; Elec R (Lond) 96:515 Mr 27 '25

MAGNUS effect
Flettner rotor ship. A. R. Low. il Engineering 118:831 D 19 '24
Flettner's sailless ship explained. il diags plan Power 60:1054-6 D 30 '24
Is the Magnus effect applicable to aircraft? A. Klemin. diags Aviation 18:127-9 F 2 '25
Magnus effect. diag Engineer 138:636 D 5 '24
Magnus effect. Marine Eng 30:95-6 F '25
Magnus effect employed by Herr Anton Flettner. il diags Engineer 138:589 N 21 '24
Magnus effect in aviation. diags Sci Am 132: 343+ My '25
Magnus effect propeller. il diags Sci Am 133: 126 Ag '25
Der magnus-effekt, die grundlage der Flettnerwalze. A. Betz. diags Zeit Ver Deutsch Ing 69:9-14 Ja 3 '25
Principle of Flettner's ship easily demonstrated. il Power 61:36 Ja 6 '25
Savenius wing rotor; a further application of the Magnus effect to windmills and to boat propulsion. A. Klemin. il diags Mech Eng 47:911-12 N '25
Le sillage des cylindres tournants. A. Lafay. Génie Civil 86:291-2 Mr 21 '25

MAGNUS effect—*Continued*
Les théories de l'aérodynamique moderne sur l'effet Magnus et les voiles tournantes Flettner. G. Delanghe. il diags Génie Civil 86:425-33, 453-7 My 2-9 '25
Zur aerodynamik des magnuseffektes. Sandel. diags Zeit Ver Deutsch Ing 69:727-8; Discussion. 728-9 My 23 '25

MAGRATH, Charles A.
Magrath appointed to Ontario hydro commission. Can Eng 49:328-9 S 22 '25

MAGSTER. See Moving pictures, Stereoscopic

MAH jong
Rise of Mahjongg. il Dun's Int R 43:45-7+ Je '24

MAHOGANY
Philippine mahogany. il Arch & Bldg 57:37-8 Ap '25

MAIDSTONE gas company
Centenary of the Maidstone gas company. il Gas J (Lond) 164:767-70 D 19 '23

MAIL
Handling the paper that represents money. il System 48:277-8 S '25
Less expense, more speed. W. R. Robinson. diag System 47:686-7 My '25
Mail sorting that gives us an early start daily. M. W. Osgood. il System 45:329-31 Mr '24
Saving $10,000 a year in handling office mail. D. C. Pettibone. System 45:769-71+ Je '24
20 plans that save hours and dollars for us. R. C. Schumann. il System 48:292-3 S '25
Use of trade literature. D: Autton. Electrician 93:104 Jl 25 '24

See also Advertising, Mail; Mailing; Mailing departments; Postal service

MAIL advertising. See Advertising, Mail

MAIL airplanes. See Airplanes, Mail

MAIL bags
Comparative wearing qualities of pima and ordinary cotton used in mail bags. F. R. McGowan, C: W. Schoffstall and A. A. Mercier. il diags U S Bur Stand Tech Pa 277: 73-83 '25

MAIL boxes

Manufacture

Manufacture of post office equipment. il Iron Age 112:1369-72 N 22 '23

MAIL cars. See Postal cars

MAIL handling
Automatic electric trains for London post office railway. Elec Ry J 66:241-2 Ag 15 '25
Carrying mail mechanically. L. A. Wilson. map Management & Adm 9:71 Ja '25
Continental pneumatic postal tube installation. diags Ind Management (Lond) 10:283-5 N 15 '23
Die mechanisierung des innenverkehrs nach ausführungen der A. G. Mix & Genest, telephon- und telegraphen-werke abt. rohrpost und förderanlagen. C. Beckmann. il diags Elektrotech Zeit 46:1540-7 O 8 '25
Pneumatic mail tubes and operation of automatic railroads. K. E. Stuart. il Sibley J 37:161-5+ O '23
Post office tube railway. il map Engineer 138:404 O 10 '24
Postal subways in London. il Sci Am 131: 160-1 S '24
Wirtschaftlichkeit von hausrohrpostanlagen. J. Fritz. diags Zeit Ver Deutsch Ing 68:681-3 Je 28 '24

See also Mail terminal buildings; Parcel post; Postal cars; Postal service, Aerial

MAIL order business
And now—the mail-order chain of department stores. G. A. Nichols. Ptr Ink 132:33-4+ S 24 '25
Are orders few? why not ship without 'em? W. Brindley. Ptr Ink 131:132-3 My 21 '25
Can mail-order selling be made an exact science? M. J. Lacy. Ptr Ink M 10:61-2 Je '25
Customers decided on this manufacturer's retail outlets; Lincoln & Ulmer denicotined cigars. H. E. Pettingill. Ptr Ink 132:17-19 Jl 16 '25
Dabblers in new policies set example to be avoided. H. C. Clarke. Ptr Ink 126:63-4+ F 14 '24
Even the order blank can be made to sell. M. Hastings, jr. Ptr Ink M 10:33+ Je '25
How Father Murray took care of the boys. R. J. Murray. Ptr Ink 133:57-8+ O 29 '25
How the Otis Hidden company sold personal service. W. E. Backus. Ptr Ink 127:170+ Je 26 '24
How we built a profitable mail-order business. L: Rothman. System 46:171-3 Ag '24
Humanizing the mail order—our way to 1,400% greater volume; Belwin, incorporated. M. Winkler. il System 45:478-80+ Ap '24
Mail order business. Moody's Inv Serv 17:201-2 Je 18 '25
Mail-order hooks in general advertising. L. R. Alwood. Ptr Ink 129:57-8+ D 4 '24
Mail order outlook. Moody's Inv Serv 16:398 O 30 '24
Mail-order selling has boom in London. T: Russell. Ptr Ink 127:120 Ap 17 '24
More about who buys most goods by mail. Ptr Ink 128:69-70+ Jl 24 '24
Pay attention to the laggard department; a lesson from mail order. H. C. Clarke. Ptr Ink 126:194+ Ja 10 '24
Science of marketing by mail. H. J: Buckley. 323p B. C. Forbes pub. co., New York '24
Selling by mail; principles and practice. V. E. Pratt. 428p McGraw-Hill '24
Selling dealers by mail when consumer sales fall off; Shipman-Ward mfg. co. D. M. Hubbard. Ptr Ink M 11:54+ N '25
When jobbers ask you to cut off the mail-order houses. Ptr Ink 130:33-4 Ja 15 '25
Where mail order falls down; can seldom be built on single specialties. Ptr Ink 130:165-6 Ja 29 '25
Why you can't do too much for customers. J. Rosenwald. il System 46:709-12+ D '24

See also Advertising, Mail; Catalogs; *also* Sears, Roebuck & company

Advertising

American tobacco gets customers to try backward sellers. D. Hubbard. il Ptr Ink M 7:78+ D '23
Can mail-order competition spread to the city? Ptr Ink 127:53-4+ My 1 '24
Copy hints from the day's mail. A. T. Moore. Ptr Ink 132:17-20 Jl 23 '25
Four changes that increased returns 700 percent. R. K. Wadsworth. Sales Management 6:590+ F '24
How advertising gives an expert's product its reputation; Goodwin Granger, manufacturer of fishing rods. J: T. Bartlett. Ptr Ink M 9:102+ S '24
How Gordon-Van Tine determines what advertising will do. G. A. Nichols. Ptr Ink 132:3-4+ Ag 6 '25
Keeping Montgomery Ward's copy within bounds of truth. T. F. Merseles. Ptr Ink 128:108+ Jl 31 '24
Mail selling turns this chick stock 104 times a year. G. A. Nichols. Ptr Ink 132:113-14+ Ag 13 '25
Making inquiries breed inquiries; how manufacturer of silos holds down cost of inquiries. W. Brindley. Ptr Ink 130:17-20 Mr 12 '25
New Sears, Roebuck copy mirrors 1924 mail-order trends. D. Hubbard. Ptr Ink 126:17-19 Mr 13 '24
Now they all pull; the mail-order methods and collection policy of El Vandoma. R. M. Rose. System 46:287-8+ S '24
Quality vs. quantity of inquiries in mail order today. D. M. Hubbard. Ptr Ink M 9:60+ D '24
Two-minute lesson in copy writing. F. B. Frazee. Ptr Ink 131:72 Je 4 '25

MAIL order business—Advertising—*Continued*
Where mail order proved the only way to sell; nicotineless cigar. A. Belden. Ptr Ink 128:116+ Jl 10 '24
See also Catalogs

Costs
What should it cost you to sell by mail? R. K. Wadsworth. Ptr Ink 127:33-4+ My 15 '24

MAIL rates. See Postal rates

MAIL service, Railway. See Railway mail service

MAIL terminal buildings
Lackawanna R.R. handles mail expeditiously. G: E. Boyd. il plans Ry R 77:311-14 Ag 29 '25
Noteworthy passenger terminal completed at Chicago. W. S. Lacher. il Ry Age 79:21-3 Jl 4 '25

MAILING
Post office plans better mailing week. Ptr Ink 131:10+ My 14 '25

MAILING departments
Messenger and mailing on the minute. F. S. Yantis. il Burroughs Clearing House 8:8-9+ My '24
Postmaster tells how to increase direct-mail returns. L. Anson. Ptr Ink 126:3-4+ Ja 10 '24
Six ways to cut mailing costs. System 47:159-61 F '25
We found a better way to run our mailing department. C. S. Crummett. il Sales Management 6:1095-6 Je '24

MAILING lists
Audit for mailing lists, after plan of A.B.C. Ptr Ink 133:41-2 O 8 '25
Before you discard that old mailing list. R. N. Fellows. Ptr Ink 126:33-4+ Ja 3 '24
Combining the sales record with the mailing list. K. G. Merrill. System 47:192+ F '25
Dead letters mailed by business men. Nation's Business 13:72+ N '25
Develop a classified mailing list of prospects. J Elec 51:381 N 15 '23
Does your mail go where you send it? M. Droke. Ptr Ink 126:25-6+ Mr 13 '24
How often do you add new names to your mailing list? M. Droke. Ptr Ink 128:57-8+ S 18 '24
How retailers feel about sending their mailing lists to manufacturers. A. H. Van Voris. Ptr Ink M 10:100+ Ja '25
Ideas your dealers can use in building mailing lists. S. H. Ditchett. Ptr Ink 129:169+ D 18 '24
Let the post office help correct your mailing list. Ptr Ink 129:125-6 N 6 '24
Mail campaign that cost $2,490 and produced $58,000. Ptr Ink 130:133-6 Ja 8 '25
Mailing list directory. L. H. Morley and A. C. Kight. 720p McGraw-Hill '24
Making inquiries breed inquiries; how manufacturer of silos holds down cost of inquiries. W. Brindley. Ptr Ink 130:17-20 Mr 12 '25
More sales from better selection. H. McJohnston. Ptr Ink M 9:142+ S '24
Pay attention to your Uncle Sam! E. G. Hawkes. Ptr Ink 133:160 O 1 '25
Rejuvenating an ailing prospect list. W. E. Backus. Ptr Ink 128:33-4+ S 11 '24
Unaddressed mail can be sent through Canada. J: L. Love. Ptr Ink 130:49-50+ Ja 8 '25
What is the fate of your circular? R. B. Clifton. Ptd Salesmanship 46:30 S '25
When should names of prospects be dropped from records? Ptr Ink 128:17-19 Jl 10 '24
Will you call in your postage stamp salesmen? D: H. Colcord. Sales Management 8:237-8+ F 7 '25

MAIN Sierra canal
Ice formations in the Main Sierra canal. G: E. Loughland. il Eng & Contr (W W) 63: 775-80 Ap 10 '25

MAINE
See Geology—Maine; Motor bus lines—Maine; Roads—Maine

MAINE Central railroad
Annual report, 63d, 1923. Comm & Fin Chr 118:1767-8 Ap 12 '24
Annual report, 64th—year ended Dec. 31, 1924. Comm & Fin Chr 120:1740 Ap 4 '25

MAINTENANCE guarantee. See Pavements—Maintenance guarantee

MAINTENANCE work in factories. See Factories—Maintenance and repair

MAJESTIC (steamship)
Structural damage sustained by S.S. Majestic. E: Ellsberg. plan Marine Eng 30: 430-1 Ag '25

MAJORCA, Balearic Islands

Architecture
Majorcan, loggia ceiling. G. Allen. il Arch Forum 40:115-16 Mr '24

MAKEREADY. See Printing, Practical—Presswork

MAKHONINE fuel
Makhonine motor fuel process. Engineer 139: 211 F 20 '25

MAKWAR dam. See Sennar dam

MALACHITE
Mechanism of the formation of malachite from basic cupric carbonate. J. R. I. Hepburn. il Chem Soc J 127:1007-13 My '25

MALARIA
Engineer's part in fostering malaria prevalence. L. M. Fisher. Nation's Health 6: 604-5 S '24
Malaria control on the St Louis Southern lines. Ry R 76:694-5 Ap 11 '25
Malaria control program Missouri Pacific R.R. H. W. Van Hovenberg. il Ry R 77: 22-3 Jl 4 '25
Malaria on the screen. E: Stuart. il Nation's Health 6:26-7 Ja '24
Progress in malaria control. J. A. LePrince. il Nation's Health 7:399-401+ Je '25
Sanitary problems of the South. S: R. Benedict. J Ind Hygiene 6:181-6; Discussion. 216-18 S '24
Work of the engineer in prevention of malaria and mosquito nuisances. J. A. LePrince. Munic & Co Eng 67:231-3 N '24
See also Mosquitoes

MALAY peninsula
Operations of an American rubber company in Sumatra and the Malay peninsula. H. S. Hotchkiss. Ann Am Acad 112:154-62 Mr '24

MALEIC acid
Catalytic transmutation of maleic acid into fumaric acid. E. M. Terry and L. Eichelberger. Am Chem Soc J 47:1402-12 My '25
Halogenation of fumaric and maleic acids; a note on the Walden inversion. E. M. Terry and L. Eichelberger. Am Chem Soc J 47: 1067-78 Ap '25
Isothermal reaction velocity in homo-heterogeneous systems in the absence of solvent; with special reference to the conversion of fused maleic acid into fumaric and malic acids. K. Höjendahl. J Phys Chem 28:758-68 Jl '24
Oxidation of fumaric and of maleic acid to tartaric acid. N: A. Milas and E. M. Terry. Am Chem Soc J 47:1412-18 My '25

MALIC acid
Decomposition of malic acid by sulfuric acid. E. L. Whitford. Am Chem Soc J 47:953-68 Ap '25
Isothermal reaction velocity in homo-heterogeneous systems in the absence of solvent; with special reference to the conversion of fused maleic acid into fumaric and malic acids. K. Höjendahl. J Phys Chem 27:758-68 Jl '24
Malic acid from maple sugar sand. J. F. Snell. Soc Chem Ind J 44:140-1 Mr 27 '25
Non-volatile acids of the strawberry, the pineapple, the raspberry and the Concord grape. E. K. Nelson. Am Chem Soc J 47:1177-9 Ap '25

MALIC acid—*Continued*
Non-volatile organic acids of alfalfa. W: A. Turner and A. M. Hartman. Am Chem Soc J 47:2044-7 Jl '25
Optical activation of racemic acid by *d*-malic acid. A. McKenzie, H. J. Plenderleith and N. Walker. Chem Soc J 123:2875-80 N '23
Polarimetric estimation of malic acid. F. Auerbach and D. Krüger. Chem Soc J 124 pt 2:884-6 D '23

MALINGERING
Detection of malingering in industrial ophthalmology. S. Walker, jr. Nation's Health 6: 243-4 Ap '24
Malingering. F: L. Mosser. Elec Ry J 64:689 O 18 '24
Studies in mental hygiene in industry; malingering. F: W. Dershimer. bibliog J Ind Hygiene 5:299-304 D '23

MALLEABLE iron. See Cast iron

MALLINCKRODT, Edward, 1845-
Sketch. W. L. R. Gifford. por Ind & Eng Chem 16:1194 N '24

MALLINSON, Hirman R.
Former cash boy who heads America's greatest silk business. E. M. Wickes. por Sales Management 7:1217-18+ Jl '24

MALNUTRITION. See Nutrition

MALONIC acid
Action between bromine and malonic acid in aqueous solution. R. W. West. Chem Soc J 125:1277-82 Je '24
Condensation of aryldiazonium salts with monoalkylated malonic acids. T: K. Walker. Chem Soc J 123:2775-9 N '23
Hydrogen and oxygen electrode titrations of some dibasic acids and of dextrose. H. T: S. Britton. Chem Soc J 127:1896-1917 Ag '25
Synthesis of the higher monoalkylmalonic acids. G. M. Robinson. Chem Soc J 125:226-31 Ja '24

MALONIC esters
Addition reactions of certain pentadienones; addition of malonic esters. E. P. Kohler and C. S. Dewey. Am Chem Soc J 46:1267-78 My '24

MALONYL compounds
Quantitative reduction by hydriodic acid of halogenated malonyl derivatives; a study of the mechanism of the reaction. R. W. West. Chem Soc J 125:710-21 Mr '24

MALT
Iso-electric point of malt amylase. H. C. Sherman, A. W. Thomas and M. L. Caldwell. Am Chem Soc J 46:1711-17 Jl '24
Manufacture and industrial uses of malt products. A. L. Davidson. Can Chem & Met 8:4-6 Ja '24

MALTODEXTRINES
Studies on starch; the nature and the genesis of the stable dextrin and of the maltodextrins. A. R. Ling and D. R. Nanji. Chem Soc J 127:636-51 Mr '25

MAMMALS, Fossil
Mesozoic mammalia; American Triconodonts. G: G. Simpson. il Am J Sci 5th ser 10:145-65, 334-58 [bibliog. p. 358] Ag, O '25
Mesozoic mammalia; tinodon and its allies. G: G. Simpson. bibliog il diag Am J Sci 5th ser 10:451-70 N '25

MAMMOTH
Mammoth tusk from the Arctic Archipelago. E. M. Kindle. il Am J Sci 5th ser 8:183-5 Ag '24

MAN
What will future man be like? Sci Am 132: 262-3 Ap '25

Origin and antiquity
Did man descend from monkeys? A. G. Ingalls. Sci Am 133:157 S '25

MAN, Prehistoric
New light on evolving man. A. G. Ingalls. il Sci Am 133:186-7 S '25

MANAGEMENT. See Automobile service stations—Management; Boiler plants—Management; Business management; Electric plants (central stations)—Management; Electric utilities—Management; Employment management; Factory management; Farm management; Foundry management; Gas companies—Management; Industrial management; Irrigation—Management; Machine shop management; Mine management; Motor trucks—Management; Office management; Organization in industry; Plumbing shops—Management; Power plants—Management; Railroads—Management; Repair shops—Management; Street railroads—Management; Waterworks—Management

MANAGEMENT, Institutional. See Institutional management

MANATI sugar company
Annual report for year ended Oct. 31, 1923. Comm & Fin Chr 118:82-3 Ja 5 '24
Annual report for year ended Oct. 31, 1924. Comm & Fin Chr 120:81-2 Ja 3 '25

MANCHESTER, New Hampshire
Engineering in the small city. Eng N 95:543-4 O 1 '25

MANCHESTER municipal college of technology
Manchester college of technology. Soc Chem Ind J (Chem & Ind) 44:6 Ja 2 '25

MANCHURIA
Great West of the Far East enters new era of progress. H: Kinyon. il Forbes 14:723-6 S 15 '24
Manchuria; land of opportunities. Rev. ed. 98p South Manchuria railway co., 111 Bway., New York '24
Where East meets West. il Dun's Int R 44: 42-4 D '24

See also Electric industries—Manchuria; Mines and mineral resources—Manchuria; Railroads—Manchuria

Industries and resources
Wirtschaftsbilder aus der südlichen Mandschurei unter besonderer berücksichtigung der eisen- und kohlenindustrie. H. Fromm. il diag map Stahl & Eisen 45:979-84 Je 18 '25

MANDELONITRILE
Transformation of mandelonitrile to mandelo*iso*nitrile. C: E. Wood and H. S: Lilley. Chem Soc J 127:95-8 Ja '25

MANDRELS. See Arbors and mandrels

MANGANESE
American manganese co. builds big concentrator in Arkansas. T: Shiras. il Eng & Min J 117:69 Ja 12 '24
Catalytic effect of lead and manganese on the drying of China wood oil. G: E. Ludwig. Ind & Eng Chem 17:1160-1 N '25
Complex action of manganese and other so-called deoxidising agents used in the manufacture of steel. F. Giolitti. Iron & Steel Inst J 108:35-48; Discussion. 49-58, 297-9 no 2 '23
Congress will scrutinize manganese tariff. Eng & Min J 119:501 Mr 21 '25
Einfluss des mangangehalts auf die hydraulischen eigenschaften von hochofen-schlacken. R: Grün. Stahl & Eisen 44:1405-9, pl 6 N 6 '24
Electrochemical method for estimating the corrosion of iron and steel. H. Beeny. il diag Am Electrochem Soc Trans v 48 (preprint 14):135-49 S '25
Harriman interests get Russian manganese concession worth millions. Eng & Min J 119: 1021 Je 20 '25
High manganese tariff unwise. Iron Tr R 74: 1242-3 My 8 '24
High temperature manganese veins of the Cuyuna range. G: A. Thiel. Econ Geol 19: 377-81 Je '24
Increasing use of manganiferous iron ore. Min Cong J 11:529+ N '25
Kempite, a new manganese mineral from California. A. F. Rogers. Am J Sci 5th ser 8: 145-50 Ag '24; Abstract. Eng & Min J 119: 3 Ja 3 '25
Low-grade Arkansas manganese in better demand. T. Shiras. il Eng & Min J 120:187 Ag 1 '25

MANGANESE—*Continued*
Manganese and iron ore industries of Russia. V. Sverdloff. Engineer 139:280 Mr 6 '25
Manganese in Baltimore water supply. il diags Am Water Works Assn J 12:211-33 [bibliog. p. 232-3] O '24
Manganese in laundry and pipe lines. H. C. Kneeland. Am Water Works Assn J 13:436-8 Ap '25
Manganese minerals; their identification and paragenesis. G: A. Thiel. Econ Geol 19:107-45, pl 3-4 Mr '24; Discussion. E. E. Fairbanks. 19:769-70 D '24
Manganese mining in Caucasus revives. il Iron Tr R 74:490-2 F 14 '24
Manganese mining in India. E. W. T. Slater. il Eng & Min J 118:1017-18 D 27 '24
Manganese ore deposits in Panama. J: F. Sheridan. maps Iron Age 114:444-7 Ag 21 '24
Manganese precipitated by micro-organisms. G: A. Thiel. il Econ Geol 20:301-10 Je '25
Manganese production in 1923. Eng & Min J 117:724 My 3 '24; Iron Age 114:375 Ag 14 '24; J Fr Inst 198:289-90 S '24
Manganese production increases in 1924. Min Cong J 11:415-16 Ag '25; Same, without tables. Oil Paint & Drug Rep 108:65 Jl 27 '25; Excerpts. Manuf Rec 88:83 Jl 23 '25
Manganese report issued. Eng & Min J 117: 545 Mr 29 '24
Manganese situation. Comm M 7:27-30 S '25
Potentialities of Georgian manganese. V: C. Svimonoff. map Eng & Min J 120:690 O 31 '25
Precipitation of manganese from meteoric solutions. G: A. Thiel. Am J Sci 5th ser 7:457-72 Je '24
Present tariff vital to manganese mining industry. T. Shiras. Manuf Rec 85:79 My 29 '24
Russian iron and manganese industry improving. Eng & Min J 119:802 My 16 '25
Separation of manganese in the analysis of limestone and similar materials. A. W. Epperson. Ind & Eng Chem 17:744-5 Jl '25
Soviet concession to W. A. Harriman interests covering 2,750,000 tons of manganese ore. Comm & Fin Chr 119:1802-3 O 18 '24
Treatment of manganese-silver ores. G. H. Clevenger and M. H. Caron. il diags U S Bur Mines Bul 226:1-110, pl 1-13 '25
World's manganese ore situation. Eng & Min J 120:722-3 N 7 '25

Analysis

Determination of manganese. R. W. Coltman. il Ind & Eng Chem 16:606-9 Je '24
Determination of manganese. T. R. Cunningham and R. W. Coltman. bibliog Ind & Eng Chem 16:58-63 Ja '24
Determination of manganese in iron; Deshay's method. Foundry 52:472a Je 15 '24
Determination of manganese in water by the sodium bismuthate method. W. D. Collins and M. D. Foster. Ind & Eng Chem 16:586 Je '24
Dosage du manganèse au persulfate d'ammonium en présence d'acide fluorhydrique. J. Vernay. Chimie & Ind 11:1093-5 Je '24

MANGANESE acetate
Preparation and solubility of manganese acetate. A. F. G. Cadenhead and W. H. Vining. Can Chem & Met 8:64 Mr '24

MANGANESE alloys
Copper-manganese alloys. W: Campbell. Metal Ind 22:239 Je '24
Electrolytic formation of alloys and amalgams of manganese. A. N. Campbell. Chem Soc J 125:1713-19 S '24
Some electrical properties of copper-nickel-manganese alloys. N. B. Pilling. Am Electrochem Soc Trans v 48 (preprint 2):9-24 S '25

See also Manganese bronze; Manganese steel

MANGANESE amide
Potassium ammono-aluminate, potassium ammonomanganite and manganous amide. F. W. Bergstrom. diags Am Chem Soc J 46: 1545-58 Jl '24

MANGANESE bronze
Corrosion-resistant alloys. J. L. Jones. Am Soc T M Pro 24 pt 2:427-8 '24
Proposed tentative specifications for manganese-bronze castings. Foundry 52:554 Jl 15 '24
Resistance of manganese bronze duralumin and electron metal to alternating stresses. R. R. Moore. il diags Am Soc T M Pro 23 pt 2:106-21; Discussion. 122-9 '23

MANGANESE compounds
Oxidation of hydrazine; the limiting reaction of permanganate and manganic salts in acid solution with hydrazine. E. J. Cuy, M. E. Rosenberg and W: C. Bray. Am Chem Soc J 46:1796-1810 Ag '24

MANGANESE dioxide
Heats of oxidation of carbon monoxide and of hydrogen by manganese dioxide at 0° C. J. C. W. Frazer and C. E. Greider. diag J Phys Chem 29:1099-1104 S '25
Manganese dioxide in the catalytic oxidation of carbon monoxide. W. A. Whitesell and J. C. W. Frazer. Am Chem Soc J 45:2841-51 D '23
Producing face brick with aid of manganese. R. J. Otten. Brick & Clay Rec 65:255+ Ag 19 '24

MANGANESE oxalate
Determination of manganese. R. W. Coltman. il Ind & Eng Chem 16:606-9 Je '24

MANGANESE steel
American manganese steel co. constructs manganese shop in the West. il Foundry 53: 725-6 S 15 '25
Casting manganese steel. H. E. Diller. il Foundry 52:245-9, 298-302 Ap 1-15 '24
Chromium-silico-manganese steel. Soc Auto Eng J 16:148-9 F '25
Cold drawn manganese steel is used in latest type door hinge. W. L. Carver. il diags Automotive Ind 51:687-9 O 16 '24
Composition and physical properties of cast 12-per-cent manganese steel. J: H. Hall and G. R. Hanks. Am Soc T M Pro 24 pt 2:626-34 '24
Correct welding procedure retains qualities of manganese steel. H. H. George. Elec Ry J 63:611-13 Ap 19 '24; Same. Eng & Contr (Ry) 62:411-14 Ag 20 '24
Discovery of manganese steel. Mach 30:258 D '23
Electric arc welding applied to manganese steel. diags J Elec 54:106-7 F 1 '25
French metallurgy (1889-1925) and the important part played by France in the past; some curious and unexplained facts connected with manganese steel. R. Hadfield. il Soc Chem Ind J (Chem & Ind) 44:1036-44 O 23 '25; Excerpts. Iron Tr R 77:1464-5, 1597-8 D 10, 24 '25; Engineer 140:385-6 O 9 '25
High-manganese steel for locomotives. E. F. Cone. il Iron Age 114:824-5 O 2 '24
High manganese steels. Iron Age 114:620 S 11 '24
Making cast manganese steel. J. M. Quinn. Foundry 52:964-6 D 15 '24
Making hard manganese steel involves careful treatment. H. Hermanns and H. Meixner. Iron Tr R 76:452-4, 509-11 F 12-19 '25; Same. Foundry 53:323-5, 356-8 Ap 15-My 1 '25
Manganese special work welding. E. J. Shuler. Eng & Contr (Ry) 61:419-20 F 20 '24
Manganese steel in the clay industry. J. I. Capps. il Brick & Clay Rec 65:177-82 Ag 5 '24
Manganèse steel used for pedestal jaw plates. diags Elec Ry J 66:447 S 19 '25
Phosphid in manganstahl. E. Piwowarsky. Stahl and Eisen 45:1075-6, pl 1 Jl 2 '25; Abstract (Phosphorus in manganese steel). Engineer 140:sup126 Ag 28 '25
Refining metals electrically. L. J. Barton. Foundry 53:70-2, 103-7, 150-4+, 359-60 Ja 15-F 15, My 1 '25
Selling special castings; filling the buyer's wants in manganese steel. D. M. Avey. il Foundry 53:261-6 Ap 1 '25

MANGANESE steel—*Continued*
Specializes manganese steel. H. E. Diller. il plan Foundry 51:891-7 N 15 '23; Same. Iron Tr R 73:1672-7 D 20 '23
Steel and electrical engineering. R. Hadfield. il Electrician 93:606-9 N 28 '24
Welding manganese steel by the oxy-acetylene process. B. K. Smith. diag Eng & Contr (Ry) 62:882-4 O 15 '24
Western manganese steel plant placed in operation at Los Angeles by the American manganese steel co. Foundry 53:491 Je 15 '25
What clay products manufacturers think of manganese steel. Brick & Clay Rec 67:475-7 S 29 '25

Bibliography

Bibliography of manganese steel. E. H. McClelland. Blast F & Steel Pl 12:548-52 D '24

Testing

High manganese steel castings. J: H. Hall. Iron Age 116:879-84 O 1 '25

MANGROVE
Mangrove bark as a source of dye. C. D. Mell. il Textile Col 45:701-2 N '23

MANHATTAN college, New York city
Manhattan college, New York city. Arch & Bldg 56:85, pl 177-82 S '24

MANHOLES
Gas hazards in street manholes. S. H. Katz, E. G. Meiter and J. J. Bloomfield. U S Bur Mines Rep of Invest 2710:1-20 O '25 (typew)
Makers and users desire fewer manhole varieties. Eng N 93:444 S 11 '24
Manhole cover tests show increased safety factor. E: A. Holden and G: M. Griffith. il diags Elec W 84:171-2 Jl 26 '24
New design for manhole covers for Manhattan borough. H. W. Levy. diags plans Eng N 92:774 My 1 '24
Reduction in varieties of manholes proposed. Eng & Contr (W W) 62:352 Ag 13 '24
Safety jury reports on manhole explosion. diag Nat Safety N 11:37 F '25
Seek reduction in manhole varieties. Eng N 93:766 N 6 '24
Standard manhole covers considered. Foundry 53:13 Ja 1 '25; Same. Iron Tr R 76:219 Ja 15 '25
Standardization of manhole frames and covers. Munic & Co Eng 68:211 Ap '25
Water services in Atchison. E. E. Hellener. diags Pub Works 56:51-2 F '25; Same. Eng & Contr (W W) 64:121 Jl 8 '25

MANIFOLDS. See Automobile engines—Manifolds; Penstocks—Manifolds

MANILA, Philippine Islands

Harbor

Port of Manila opens large shipping pier. E. C. Earle. il diag plan Eng N 94:716-20, 756-61 Ap 30-My 7 '25; Discussion. A. F. Dyer. 94:1031-2 Je 18 '25

MANILA electric company
Investment opportunities in the Philippines. Moody's Inv Serv 16:320 Ag 21 '24

MANILA hemp. See Abaca

MANILA rope
Meeting of the special A.P.I. committee on standardization of wire rope and manila cordage. Am Pet Inst Bul 6:84-9 S 4 '25
Report of special committee on the standardization of wire rope and manila cordage. Am Pet Inst Bul 5:52-4 D 31 '24
Why manila makes rope. Marine R 55:275 Jl '25

MANIPULATORS, Ingot
Ingot manipulators. W. H. Bailey. il diags Iron Age 116:146-7 Jl 16 '25

MANITOBA

See Floods—Manitoba; Gold mines and mining—Manitoba; Roads—Manitoba

MANJAK
Gums and resins of Latin America. O: Wilson. il Chem & Met Eng 31:375-6 S 8 '24
Uses of manjak. Sci Am 129:438 D '23

MANNING of ships. See Ships—Manning

MANNITOL
Condensation of mannitol with olive oil. J. C. Irvine and H. S. Gilchrist. Chem Soc J 125: 10-15 Ja '24

MANNOHEPTOSE
Relations between rotatory power and structure in the sugar group; two isomeric crystalline hexa-acetates of dextro-alpha-mannoheptose. C. S. Hudson and K. P. Monroe. Am Chem Soc J 46:979-83 Ap '24

MANNOSE
Acetone sugars; experiments with galactose and mannose. K: Freudenberg and R. M. Hixon. Chem Soc J 124 pt 1:1179-80 D '23
Derivatives of a new form of mannose. J. C. Irvine and W: Burt. Chem Soc J 125:1343-8 Je '24

MANNOSIDES
Three isomeric crystalline tetra-acetylmethyl-*d*-mannosides. J. K. Dale. Am Chem Soc J 46:1046-51 Ap '24

MANOMETERS
Aerology for amateurs and others. E. V. Hill. diag Heat & Ven 21:50 My '24
Balanced manometer at the British Empire exhibition. il diags Engineering 118:223 Ag 15 '24
Capillary manometer system for preparing mixtures of gases with a very high ratio between components; abstract. E. Q. Adams and E. R. H. Charpentier. J Fr Inst 199:550-1 Ap '25
Constant precision manometer. A. F. Zahm. il diags J Fr Inst 198:213-16 Ag '24
Manometer indicates strainer condition. J. Bivim. diag Elec W 84:1003 N 8 '24
New electro-magnetic manometer. il diags Engineer 137:609-10 My 30 '24
Sensitive glass manometer for gases which attack mercury. A. Klemenc. diags Am Chem Soc J 47:2173-5 Ag '25
Temperature controller for boiling vats and balance manometer. diags Engineering 117: 143 F 1 '24
Use of long mercury manometers. diag Am Chem Soc J 47:1341-2 My '25

MANUAL training

See Industrial education

MANUFACTURERS

Directories

Donnelley's directory; a catalog of New York district manufacturers, distributors and business services; annual. Rueben H. Donnelley corporation, New York '22

MANUFACTURERS' agents
Agents and agencies. N. Isaacs. Harvard Business R 3:265-74 Ap '25
Building a sales organization of resident agents. Ptr Ink 130:100-1 Mr 12 '25
Manufacturers' agent as a factor in the distribution scheme. E. A. Kincaid. diags J Elec 51:444-8 D 15 '23
Problems of the manufacturers' agent. E. A. Kincaid. J Elec 52:17-19 Ja 1 '24
To make best use of manufacturers' agents. G. P. Edmonds. Elec W 84:392 Ag 23 '24

MANUFACTURERS' liability
Liability of manufacturer who quotes prices on goods differing from plans and specifications submitted. Dom Eng 110:48+ Ja 3 '25
When your product injures the consumer. A. E. Haase. Ptr Ink M 10:67+ Ja '25

MANUFACTURES
Census of manufactures: 1923. Survey of Cur Business 39:24-5 N; 40:22 D '24
Contribution of science to manufacturing. A. D. Little. Ann Am Acad 119:1-9 My '25
Export outlook for American manufacturers. J. Klein. Econ W n s 29:724-6 My 23 '25
General statistics of manufactures in the United States in 1923. Econ W n s 29:227 F 14 '25
It is time to break away from tradition in manufacturing. E. Wolff. Ptr Ink M 8:34-5+ Ja '24

MANUFACTURES—*Continued*
Manufacturing activity in 1925. Bankers M 110:823 My '25
Manufacturing interests of the United States. Manuf Rec 88:66-8 Jl 16 '25
Some things we do not know about consuming capacity. Ptr Ink 128:33-4+ Jl 17 '24; Same. Paper Tr J 79:53-4 S 4 '24
What is going to happen to the small manufacturing plant? D. S. Cole. chart Ind Management 70:173-7 S '25
What over-borrowing does to industry. C. E. Woods. Burroughs Clearing House 9:5-7 F '25

See also Brickmaking; Catalogs; Chemistry, Technical; Coke manufacture; Commerce; Competition, Unfair; Cost accounting; Cotton manufacture; Equipment industries; Factories; Factory management; Foundries; Fuel; Gas manufacture; Glass manufacture; Home labor; Inspection; Interchangeable mechanism; Knit goods; Labor and laboring classes; Leather; Machine shops; Machinery; Metal work; Metals; Overproduction; Paper making; Patents; Porcelain; Prices; Production; Quality of products; Quantities (in production); Simplification in industry; Soap manufacture; Specifications; Substitutes; Textile fabrics; Toys; Trade marks; Vehicles; Waste products; Woolen and worsted manufacture; *also* subdivision Manufacture under names of manufactured articles, e.g. Automobiles—Manufacture; Pottery—Manufacture; Rubber—Manufacture; Shoes—Manufacture; Sugar—Manufacture and refining; Wire—Manufacture

Costs

See Factory costs; Power cost

MANUFACTURING chemists' association of the United States
Annual meeting, 52d, New York, June 4. Oil Paint & Drug Rep 105:19+ Je 9 '24
Annual meeting, June 3. Oil Paint & Drug Rep 107:21+ Je 8 '25
Annual report of the executive committee for year ended May 31, 1924. H: Howard. Chem Age 32:253-6 Je '24
Sketches and portraits of officers. Oil Paint & Drug Rep 105:18 Je 23 '24

MANUSCRIPTS

Deciphering

Use of ultra violet light in deciphering damaged documents. il Paper Tr J 78:78 Ap 3 '24

MANUSCRIPTS, Preparation of. See Printing, Practical

MANUSCRIPTS, Rejection of. See Authorship

MAP projection
Aerial map of the world. A. P. Berejkoff. diag Aviation 19:208-9 Ag 24 '25

MAPLE
Examination of the dissolved tar from the carbonization of hard maple. L. F. Hawley and H. N. Calderwood, jr. Ind & Eng Chem 17:149-51 F '25

MAPLE flooring manufacturers' association
Another rule of reason. Nat City Bank p 134-5 Ag '25
Trade association activities clarified. Mech Eng 47:599-600 Jl '25
Trade statistics and public policy. F. D. Jones. Harvard Business R 3:394-403 Jl '25

MAPLE sirup
Production of maple sirup and sugar. A. H. Bryan, W: F. Hubbard and S. F. Sherwood. U S Agric Farmers Bul 1366:1-35 '24

MAPLE sugar sand
Malic acid from maple sugar sand. J. F. Snell. Soc Chem Ind J 44:140-1 Mr 27 '25

MAPPING, Aerial
Aerial mapping of New York. Blast F & Steel Pl 12:206-7 Ap '24
Aerial maps made to facilitate California home-site survey. T. R. Mini. map Eng N 93:264-5 Ag 14 '24
Aerial photography an aid to better map making. G. H. Matthes. il Eng N 92:25-7 Ja 3 '24
Making of greater New York's air map. map Aviation 16:16-17 Ja 7 '24
Stereophoto surveying from the air; Brock process. il diags map Eng N 94:604-8 Ap 9 '25

MAPS
Indexing engineering maps and data. H: A. Varney. Eng N 95:306-7 Ag 20 '25
Maps showing territorial changes since the World war. L. Martin, comp. 27p American assn. for international conciliation, 407 W. 117th st., N.Y. '24
Some notes on city mapping. O. W. Gatchell. diag Eng N 92:1106-7 Je 26 '24

See also Advertisements—Maps; Aeronautic maps; Assessment maps; Geological maps; Mine maps; Relief maps; Topographical maps

MARBLE
Dignifying a by-product; office building of Vermont marble company. S. W. St Clair. il plan Am Arch 126:327-30 O 8 '24
Electrical conductivity of marble; abstract. G. Stetter. J Fr Inst 199:139-40 Ja '25
Marble deposits of east Tennessee. 264p Tennessee geol. survey, Nashville '24
Tentative specifications for interior marble work. Am Arch 126:sup16+ S 10 '24
Weathering of marble—its causes and effects. Eng & Contr (Bldgs) 62:481-3 Ag 27 '24
World demand for Belgium's oddly-colored marble. il Dun's Int R 45:73+ Ag; 46:73+ N '25

Advertising

When the product's prestige gives the prospect a price scare. B. A. Grimes. Ptr Ink 127:186+ Je 26 '24

MARBLE floors. See Floors, Marble

MARBLING
Art of marbling paper. B. J. Sansom. Paper 34:903-5 S 4 '24

MARCASITE
Paragenesis of marcasite. W. H. Newhouse. il Econ Geol 20:54-66 Ja '25

MARCONI, Guglielmo
Old record of Marconi's first radio success. W. S. Fitzpatrick. por Wireless Age 12:52-3 O '24

MARCONI wireless telegraph company, ltd.
Earnings, 1921-1924. Comm & Fin Chr 121:839 Ag 15 '25
Marconi report; summary of progress of company 1913-1923. Economist 99:231 Ag 9 '24

MARIEMONT, Ohio
Carrying out Mariemont plan for a self-contained town. G. Hall. plan Eng N 92:580-2 Ap 3 '24

MARIETTA, Ohio

Rapid transit

Marietta votes for the trolley. Aera 12:1101-5 F '24

MARINE biology
Life in the ocean depths. W. K. Fisher. Sci Am 130:175 Mr '24

See also Algae; Marine fauna; Plankton

MARINE boilers. See Boilers, Marine

MARINE borers
Destructive marine organisms. Engineering 117:5-7 Ja 4 '24
Deterioration of structures in sea-water. Engineering 118:774-5 D 5 '24
Marine piling investigations of the National research council. W: F. Clapp. il diags Boston Soc C E J 11:417-25; Discussion. 426-42 N '24
Marine structures; their deterioration and preservation. W: G. Atwood and A. A. Johnson. 474p National research council '24; Summary. Eng N 93:469 S 18 '24
Observations on rock boring mollusks in concrete. W. R. Sadler and D. E. Hughes. Eng N 93:1027-8 D 25 '24; Abstract. Concrete 26:137 Ap '25
Results of experiments in treatment of piling specimens against attack by marine borers. J. D. Maclean. il Eng & Contr (Ry) 61:626-34 Mr 19 '24

MARINE borers—*Continued*
Rock boring bivalve mollusc. il Can Eng 46: 654 Je 24 '24
Some tropical wharf construction. T. H. Barnes. diags Boston Soc C E J 11:385-416 N '24
Stone borers in northern waters. il Eng N 92:210 Ja 31 '24
See also Teredos

Bibliography
Marine structures; their deterioration and preservation. W: G. Atwood and A. A. Johnson. p. 462-74 National research council '24

MARINE engineering
Applying chemistry to marine engineering problems. C. A. McAllister. Marine Eng 29: 396-7 Jl '24
Engine-room practice. J: G: Liversidge. 11th ed., rev. 429p Lippincott '23
Fifty years' evolution in naval architecture and marine engineering; abstracts. A. Denny. Engineering 120:252-5 Ag 28 '25; Engineer 140:221-2 Ag 28 '25; Elec R (Lond) 97: 332-3 Ag 28 '25; Marine Eng 31:49-53 Ja '26
Management of marine engines and boilers. E. Prince. 336p Van Nostrand '25
Marine engineering in theory and practice. S. G. Wheeler. 2v, v 1. C. Lockwood & son, London '24
Marine engineering practice. F: J. Drover. 494p Van Nostrand '24
Practical Diesel engineering. L: R. Ford. diags Marine Eng 29:607-10, 669-73 O-N '24
Practical ideas for the engineer; proper use of engine indicators. il Marine R 54:336-9 Ag '24
Use and abuse of air on board ship. H. C. Dinger. Marine Eng 30:219-20 Ap '25
XXIX[e] session de l'Association technique maritime et aéronautique (Paris, 25-27 mai 1925). Génie Civil 86:624-6 Je 27 '25
See also Boilers, Marine; Diesel engines, Marine; Fenders, Floating; Gas and oil engines, Marine; Marine engines; Motor ships; Naval architecture; Propellers; Rotor ships; Salvage; Ship propulsion; Ship resistance; Shipbuilding; Ships—Electric equipment; Steam turbines, Marine; Steamboats; Steering gear

Exhibitions
Exhibits at the Marine show. Marine Eng 30: 634-45 N '25; Marine R 55:452-6 D '25
Navy at the British Empire exhibition. il diags Engineering 118:420-2, 458-60 S 19-26 '24

Study and teaching
See Naval education

MARINE engineers
Must train men for motorships. A. H. Jansson. Marine R 54:271-6 Jl '24
Practical Diesel engineering; obtaining a license as a motorship engineer. L: R. Ford. Marine Eng 30:509-15 S '25
Sea going engineers win bonus. Marine R 55:192-3 My '25
Training for an engineer's license. D: Gaehr. Marine Eng 29:641 N '24
What fits men for work in the engine room? D: Gaehr. Marine Eng 29:582 O '24

MARINE engines
Automatic tension engine applied to deep sea dredging. il Marine Eng 30:388-9 Jl '25
Centenary of John Elder. 1824-1869. E. C. Smith. Engineer 137:273-4 Mr 14 '24
Conversion of ships into motor types. 143p U.S. Congress. House Com. on merchant marine and fisheries, Washington, D.C. '24
Coxe-Lagergren combined steam and Diesel engine proposed. diags plan Marine Eng 30: 24-6 Ja '25
Elastic towing; new automatic tension towing engine. S. Miller. diag charts Marine Eng 29:657-62 N '24
Future of the marine engine. C: R. King. Engineer 139:468 Ap 24 '25
Future of the marine steam engine. Engineer 139:384 Ap 3 '25
Hybrid steam Diesel engine. diag Sci Am 132: 330-1 My '25
Marine steam engine. R: Sennett and H. J. Oram. 14th ed. 638p Longmans '24
Sixty-two years of service. il Power 62:571 O 13 '25
Steam vs. Diesel engines for propulsion. Marine Eng 30:389-90 Jl '25
See also Boilers, Marine; Diesel engines, Marine; Diesel engines, Submarine; Gas and oil engines, Marine; Marine engineering; Motor ships; Ship propulsion; Steam turbines, Marine; Still engine

Lubrication
Selection of marine oils. J: B. Rathbun. Pet Age 14:56-7 O 15 '24

MARINE fauna
Brief survey of the animal communities in Danish waters, based upon quantitative samples taken with the bottom sampler. C. G. J. Petersen. Am J Sci 5th ser 7:343-54 My '24
Kingdom of the tides. R. W. Miner. il Sci Am 133:5-7 Jl '25
See also Fishes; Marine borers

MARINE fiber. See Posidonia australis

MARINE standards
American marine standards committee invites cooperation of technical organizations. Marine Eng 30:45-7 Ja '25
11 committees study marine standards. Marine R 54:340-1 Ag '24

MARINE structures
Deterioration of structures of timber, metal and concrete exposed to the action of sea water; fifth report of the committee of the Institution of civil engineers. Engineering 120:170-1, 202-3 Ag 7-14 '25; Can Eng 49: 484 O 20 '25
See also Marine borers

MARINE workers
Status of maritime workers injured in the course of employment. L. D. Clark. Monthly Labor R 18:402-8 F '24
See also Longshoremen; Seamen

MARION (Ohio) Star
Frank A. Vanderlip's utterances affecting sale of Marion Star. Comm & Fin Chr 118:868-72 F 23 '24

MARITIME law
First Edmonds bill. Marine Eng 29:267-8 My '24
Geneva conference and ocean shipping. E. T. Chamberlain. U S Bur For & Dom Com Trade Information Bul 202:1-24 '24
Late decisions in maritime law. See monthly numbers of Marine review
Liability of ocean carriers for cargo damage or loss; progress toward uniform legislation. A. J. Wolfe. U S Bur For & Dom Com Trade Information Bul 297:1-23 '24
Navigation laws of the United States, 1923. 557p U.S. Bur. of navigation, Dept. of commerce, Washington, D.C. '23
What's wrong with our navigation laws? A. G. Smith. Marine Eng 30:231-2 Ap '25
See also Insurance, Marine; Merchant marine act, 1920; Seamen

MARKET areas, Law of
Law of market areas explained. F. A. Fetter. Iron Tr R 76:817-19 Mr 26 '25

MARKET buildings
Building health and sanitation into the market; Hay market house, San Antonio. A. W. Roe. il plan Bldg Age 47:104-5 Ja '25
Chicago's new produce market; buildings—equipment. il plans Eng N 95:136-9 Jl 23 '25
Municipal art society prize competition, a municipal market; student work, Beaux-arts institute of design. Am Arch 125:567-72 Je 18 '24
Municipal market building, Norfolk, Va. il plan Arch Forum 42:305-6 My '25
New Centre market building, Newark, N.J. Arch & Bldg 56:30, pl 87-9 Ap '24

MARKET buildings—*Continued*
New Centre market, Newark, N.J. il plans Am Arch 127:241-4 Mr 11 '25
Penalty of dead load; Bronx terminal market, New York. il plan Am Arch 127:515-17 Je 3 '25; Same. Can Eng 49:539-41 N 10 '25
Smaller civil architecture of England; the wool market, Chipping Campden, Gloucestershire. R. W. Ramsdell and H. D. Eberlein. il plan Arch Forum 41:25-8 Jl '24

MARKET surveys
Analysis of a student market. L. S. Lyon. Univ J of Business 2:481-90 S '24
Another market survey that has wide application; analysis of electrical sales. Ptr Ink 129:41-2 O 2 '24
Breaking down sales resistance in industrial selling; a survey of the buying habits of industry. M. Muir. Ann Am Acad 115:83-94 S '24
Commercial survey of the Philadelphia marketing area. J. F: Dewhurst. maps U S Bur For & Dom Com Domestic Commerce Ser 1:1-130 '25
Conducting a survey by interviews. H. A. Haring. Ptr Ink M 9:46+ Jl '24
Consumption statistics good place to find new markets. A. O'Neill. Ptr Ink 131:143-4 My 14 '25
Determining a sales quota basis. E. R. Smith and P. W. Smith. Harvard Business R 4:49-56 O '25
Dr Starch to direct agencies' marketing survey. Ptr Ink 130:140 Ja 15 '25
Étude des besoins de la clientèle. L. Chambonnaud. Chimie & Ind 12:567-73 S '24
Example of scientific marketing procedure. S. Cowan. Taylor Soc Bul 9:143-51 Je '24
Figuring out city buying power. Nation's Business 12:66-7 N '24
Guide to the purchasing power of distribution centres; population's purchasing power. Ptr Ink 128:10+ S 25 '24
Handling the research work in typical direct advertising campaigns. R. E. Ramsay. Inland Ptr 73:413-16 Je '24
Heeding the consumer's whims. C. B. Sherman. Am Bankers Assn J 18:364+ N '25
How many people will buy the product you have to sell? R. G. E. Ullman. Management & Adm 9:361-2 Ap '25
How to measure your market. F. Y. Presley. il System 47:455-9+ Ap '25
How Westinghouse sizes up the various industrial markets. A. M. Staehle. charts Sales Management 9:575-6+ O 31 '25
A market analysis. Elec W 84:1282-3 D 13 '24
Market analysis and the special library. P. White. Special Lib 16:85-6 Mr '25
Market analysis; its principles and methods. P. White. 2d ed. 438p McGraw-Hill '25
Market survey—finder of unknown sales appeals. P. White. Ptr Ink M 8:80+ F '24
Market survey that showed us how to stop guessing. W. E. Underwood. Sales Management 8:335-7+ F 21 '25
Measuring a retail market. U S Bur For & Dom Com Trade Information Bul 272:1-12 '24; Review. Ptr Ink 130:156+ F 12 '25
Mercantile ratings as a measure of potential markets. H. E. Rollins. Ptr Ink M 10:31+ F '25
Merchandising and the scientific study of markets. P. White. charts Gas Age 56:87-8+ Jl 18 '25
My reply to critics who say marketing will never be a science. F: A. Russell. Ptr Ink 131:105-6+ Ap 23 '25
Place of the modern distributive survey in relation to maximum sales. E. G. Booz. Ann Am Acad 115:95-8 S '24
Profitable export market analysis; methods of American automotive manufacturers. G: F. Bauer. Management & Adm 9:561-4 Je '25
Regional market analysis, recently inaugurated by the Domestic commerce division of the Department of commerce. Special Lib 16:22 Ja '25
Regional market surveys promise valuable facts. Ptr Ink 129:25-6 N 27 '24
Regional survey that promises much for merchandising. Ptr Ink 132:25-6+ S 3 '25
Sales control that reveals weaknesses in working territories; Tide Water oil sales corporation's method of visualizing marketing opportunities. M. Hastings, jr. Ptr Ink M 8:39-40+ F '24
Sizing up a town's buying power before building a hotel. F. A. Dudley. il System 46:559-64+ N '24
Statistics in market studies. P. T. Cherington. Ann Am Acad 115:130-5 S '24
Taking the guesswork out of business. W: R. Basset. Forbes 14:31-3 Ap 12 '24
Technique of market analysis. A. Livingston. Taylor Soc Bul 10:18-23; Discussion. 23-4 F '25
What to do before you approach the industrial market. Sales Management 7:1463-4 S '24
When does market analysis pay?—seven tests. P. White. System 46:147-9+ Ag '24

MARKET testing
Market research that revolutionized manufacturing and selling plans of Adjustolite. R: B. Franken. Ptr Ink M 9:70+ S '24
Pointers on picking a trial market. A. Leslie. Ptr Ink 131:69-70+ Je 18 '25
Sounding out consumers' preferences in advance. L. Etherington. Ptr Ink 126:89-90+ Ja 17 '24
Testing the new product's sales appeal. Ptr Ink 131:49-50+ Ap 23 '25

MARKETING
Advertised brands gain strength as jobber system changes. G. A. Nichols. Ptr Ink 132:109-10+ Jl 9 '25
Advertising manager—sales manager—marketing manager. J: Sullivan. Ptr Ink 126:61-2+ Mr 6 '24
Advertising must sell come-to-market idea to retailers. C. M. Harrison. Ptr Ink 131:129+ Ap 23 '25
Are orders few? why not ship without 'em? W. Brindley. Ptr Ink 131:132-3 My 21 '25
Are you neglecting sixty-five per cent of your market? W. S. Vivian. Ptr Ink 125:97-100 N 29 '23
Bell-wether markets. C. B. Larrabee. il Ptr Ink M 8:19-21+ F '24
Between manufacturer and consumer—who bridges the gap? E. A. Kincaid. chart J Elec 51:403-6 D 1 '23
Between the producer and the consumer; the spread of prices is the foundation of our civilization. R. Estcourt. Annalist 23:215-16+ F 11 '24
Betwixt and between markets. Ptr Ink 129:93 D 4 '24
Big advertisers review distribution developments. Ptr Ink 129:103-4+ N 27 '24
Business that lifted itself by its own bootstraps; Kree-mee fudge. M. Hastings, jr. Ptr Ink 132:125-6+ S 3 '25
Census of wastes in distribution. Ptr Ink 129:98+ N 20 '24
Changing method of distribution tripled sales to retail dealers. H. F. Podhaski. il Textile World 68:649-50 Ag 1 '25
Constructive merchandising. R. E. Ramsay. 718p [bibliog. p. 674-5] Appleton '25
Control of retail distribution by a shoe company. Harvard Business R 2:502-5 Jl '24
Co-operation solves problems of distribution. C: F. Abbott. Iron Tr R 77:821-3 O 1 '25
Cutting down the price spread; the advertising manager's broadening view of distribution. P. L. Thomson. Nation's Business 12:38+ Ja '24; Same cond. Ptr Ink 126:117-18+ Mr 13 '24
Disposition of surplus and obsolete materials. A. E. Hatton. Elec Ry J 66:635-6 O 10 '25
Distribution conference endorses marketing census. Sales Management 8:139-40 Ja 24 '25
Distribution forges to the front; discussion at Taylor society meeting. Iron Age 115:1481-3 My 21 '25
Distribution, not production, is problem of today. E. L. Shaner. il Iron Tr R 76:379-83 F 5 '25

MARKETING—*Continued*

Distribution of automotive products. R. W. Sherman. Soc Auto Eng J 17:167-9; Discussion. 169-71 Ag '25

Distribution policy of a hosiery manufacturer. Harvard Business R 3:240-7 Ja '25

Don't block the way to better distribution. E: A. Filene. Ptr Ink M 9:19-20+ D '24

Drop shipments as a solution for piecemeal buying. M. Hastings, jr. Ptr Ink 131:125-6+ Ap 16 '25

Electragists find appliance discounts inadequate. W. C. Peet. Elec W 84:63 Jl 12 '24

Escaping competition by using new outlets. Ptr Ink M 11:108 S '25

Factors conditioning marketing management. L. S. Lyons and N. W. Barnes. charts Univ J of Business 3:321-49 S '25

Food buying and our markets. D. Monroe and L. M. Stratton. 321p M. Barrows & co., Boston '25

Get the facts on distribution; progress reported at annual meeting of Chamber of commerce of U. S. A. Nation's Business 13:34+ Je 5 '25

Getting dealers to feature your entire line—exclusively; Gordon hosiery department idea. G: P. Hall. Ptr Ink M 11:45-6 S '25

Getting national distribution in a hurry; how Boyce-ite did the job. A. Belden. Ptr Ink 128:10+ Jl 31 '24

High cost of too much business. H. Tipper. Nation's Business 12:25-6 Ap '24

How a distributing system for Oliver oil-gas burner grew from mail-order advertising. G. A. Nichols. Ptr Ink 126:157-8+ Ja 10 '24

How a particularly stubborn installation problem was solved by the Raybestos company. B. R. Brooker. Ptr Ink 127:69-70+ Ap 17 '24

How an assortment selling plan is being merchandised; Aluminum goods manufacturing company, Manitowoc, Wis. E. B. Weiss. Ptr Ink M 8:32-3 F '24

How Clymer switched its distributing and advertising plans. Ptr Ink 126:89-90+ F 28 '24

How creative selling opened a new channel of distribution; lumber dealers take to quantity selling of paint. A. Belden. Ptr Ink 127:41-2+ My 29 '24

How many distributors should I have? A. B. Taylor. Ptr Ink 131:17-20 My 21 '25

How much shall we sell the chains? R. W. Johnson. Sales Management 9:211-12 Ag 22 '25

How Portland cement is distributed. M. Kind. Brick & Clay Rec 66:671-4 Ap 28 '25

How to make Buffalo buy. M. V. Reed. il Sales Management 6:717-18+ Mr '24

How we cash in on our newspaper advertising. T: J. Grace. Sales Management 6:549+ F '24

In the whirlpools of distribution. A. E. Dodd. Nation's Business 12:42+ My '24

Influences of methods and costs of retailing and consumers' habits upon the market for meat. Review. Ptr Ink 130:99-100 Ja 1 '25

Is the exclusive jobber system a load on advertising? Ptr Ink 128:73-4 Ag 14 '24

Is uniform plan of distribution best? E. W. Leach. Ptr Ink 131:25-6+ Je 25 '25

Knox factory workers basis of new marketing plan. A. Belden. Ptr Ink M 7:21-2+ D '23

Lee tire drops 9,000 dealers to increase profits. C: G. Muller. Ptr Ink 129:10+ D 11 '24

Madame X—a mail-order success that was shifted to dealers. C: G. Muller. Ptr Ink 129:88+ O 16 '24

Making a success of the small manufacturing business. C. U. Carpenter. Management & Adm 10:287-9 N '25

Management factors in the shoe industry; marketing and manufacturing problems. S. E. Thompson and W. E. Freeland. diags Management & Adm 8:75-81 Jl '24

Management problems in the automotive industry; distribution replacing production as the dominant factor. H. M. Jewett; J. H. Collins. Taylor Soc Bul 10:191-5 Ag '25

Manufacturers' agent as a factor in the distribution scheme. E. A. Kincaid. diags J Elec 51:444-8 D 15 '23

Market management; find your market. N. M. Sweet. Ptg Art 42:327-31 D '23

Marketing. E. Brown, jr. 503p Harper '25

Marketing. H. R. Wellman. Paper Tr J 81: 55-6 Ag 20 '25

Marketing a new model in face of strong dealer opposition; perfected Eversharp. A. G. Frost. Ptr Ink 128:3-4+ Jl 17 '24

Marketing and the mining industries. G: J. Young. Eng & Min J 118:971-5 D 20 '24

Marketing practice. P. White and W. S. Hayward. 577p Doubleday '24

Marketing the technical product. E. N. Simons. 200p Emmott and co., ltd., Manchester, London '24

More consumer pull and less selling push; advertising and the cost of distribution. J: Benson. Comm & Fin 14:991-2 My 20 '25

More light needed on efficiency of marketing methods. H. Tipper. Automotive Ind 52:580-2 Mr 26 '25

My most important sale. G: R. Robinson. Sales Management 8:595-6+ Ap 18 '25

National distribution conference, Washington, Jan. 14-15. Ptr Ink 130:163+ Ja 22 '25

Nine executives answer vital questions on getting new dealers. C: G. Muller. Ptr Ink 132: 3-4+ Ag 13 '25

1,675 face powders—who pays? I. S. Paull. il Nation's Business 13:66+ Je '25

Orphan product acquires a name and caste through advertising; Big Yank work shirts. E. Whitmore. il Sales Management 7:1221-2+ Jl '24

Overlooked opportunities in the big institutional field. il Sales Management 9:505-6+ O 17 '25

Perhaps the dealers are not the right kind; Converse rubber shoe co. sells to deep-sea fishermen. T: F. Walsh. Ptr Ink 130:133-4 F 12 '25

Potential market—how can it be made real? Bassick manufacturing company. D. M. Hubbard. Ptr Ink M 9:50+ O '24

Preparing sales department and retailers for smaller lines. J. True. Ptr Ink M 8:41-2+ Mr '24

Principles of merchandising. M. T: Copeland. 368p Shaw '24

Profit-making possibilities in seeing marketing essentials. B. A. Franklin. Management & Adm 9:245-8 Mr '25; Same. Paper Tr J 81: 51-3+ D 17 '25

Readings in marketing. F. E. Clark, ed. 705p Macmillan '24

Research in marketing essential. A. H. Krieger. Chem & Met Eng 32:580 Je '25

Responsibility of winning leadership—and holding it. D. Hubbard. Ptr Ink M 9:50+ S '24

Rickenbacker plan for breaking in new territory. E. V. Rickenbacker. maps Sales Management 6:919-20 My '24

Science of distribution. il Sci Am 129:404+ D '23

Selection of channels of distribution for accessory equipment. Harvard Business R 3:229-33 Ja '25

Sell the home territory first. R. H. Barker. Ptr Ink 131:167+ Ap 9 '25

Selling dealers by mail when consumer sales fall off; Shipman-Ward mfg. co. D. M. Hubbard. Ptr Ink M 11:54+ N '25

Selling knitted garments direct to consumer. L: R. Keeffe. Textile World 67:1951+ Mr 21 '25

Selling trade-marked products through hotels. F: C. Russell. Ptr Ink 125:77-8+ D 20 '23

Shipping waste and shipping too far. I. S. Paull. il Nation's Business 13:48-9 Jl '25

Should the advertising precede or follow distribution? W: J. Reilly. map Sales Management 7:1245-6 Jl '24

Six channels of distribution open to bumper manufacturers. A. J. McElhone. Automotive Ind 53:782-4 N 5 '25

Small merchant files a minority report. P. W. Kearney. Sales Management 8:541-2+ Ap 4 '25

MARKETING—*Continued*
Smoothing the way for a radically new product. Ptr Ink 128:139-40 Jl 31 '24
Some things we didn't know about our $3,000,000 business. E. S. Harvey. Ptr Ink 131:25-6+ My 7 '25
Tactics that won in Cincinnati. il Sales Management 6:851-2+ Ap '24
Textile distribution problem. H. G. McKerrow. Textile World 67:832-3 F 7 '25
This labyrinthian thing called distribution. M. Hastings, jr. Ptr Ink 130:81-2+ F 12 '25
This plan kept sales growing in a thin market; Ludwig & Ludwig. D. Hubbard. Ptr Ink 131:17-20 Ap 23 '25
Treating jobbers fairly spells success for machinery builder. E. C. Barringer. il Iron Tr R 76:1249-51 My 14 '25
Twenty years of trying to find the best way to market. A. C. Braden. Ptr Ink 130:119-20+ Mr 26 '25
Two policies that have saved our business three times. B. E. Bensinger. System 48:419-23+ O '25
Unprofitable small order—what can be done about it? Ptr Ink 129:103+ O 2 '24
Vital dealer problems pressing for immediate solution. N. G. Shidle. Automotive Ind 51: 89-91 Jl 10 '24
We started advertising too soon and spent six years' profits. T: E. Lyons. Sales Management 9:89-90 Jl 25 '25
What dealer distribution means. F. L. Steinhoff. charts Brick & Clay Rec 64:252-5 F 19 '24
What national distribution means. T: J. Mercer. Ptr Ink M 11:74+ O '25
What's happening in the radio industry? A. E. Haase. Ptr Ink 133:3-4+ O 15 '25
When a new product requires a new sales channel. Ptr Ink 126:41-2+ Mr 13 '24
When borrowed trouble stands in the way of advertising; not difficult to keep undesirable retailers from ordering. Ptr Ink 127:89-90 My 29 '24
When jobbers ask you to cut off the mail-order houses. Ptr Ink 130:33-4 Ja 15 '25
When manufacturers compete with their own jobbers. Ptr Ink 131:25-6+ My 21 '25
When short profits for the dealer block sales; how Sanitas has built good-will. J. W. Behrens. Ptr Ink M 11:36+ S '25
When the side-line becomes the big profit maker; Nelke toys. A. Belden. il Ptr Ink 125:73-4 D 6 '23
Where wastes in distribution lie. I. S. Paull. il Nation's Business 13:29-31 F '25
Wholesale organization in the automobile industry. C. E. Griffin. Harvard Business R 3:424-35 Jl '25
Wholesale peddler as a factor in distribution. R. W. Johnson. il Sales Management 8: 221-2+ F 7 '25
Wholesaling also has its wastes. I. S. Paull. il Nation's Business 13:42-3 Ap '25
Why and how we are merchandising turpentine. N. S. Greensfelder. Ptr Ink 133:95-6+ O 29 '25
Why Autocar believes in concentrating sales and advertising. W: A. McGarry. Ptr Ink 126:8+ Ja 10 '24
Why neglect the small-town dealer? G. A. Nichols. Ptr Ink 132:33-4+ Jl 30 '25
Winchester-Simmons' club plan for getting dealers to trade up. Sales Management 8: 141+ Ja 24 '25
Wipe out the middleman? you can't. L. D. H. Weld. Nation's Business 12:46+ Je '24

See also Advertising; Auctions; Branch houses; Brokers; Canvassing; Chain stores; Consignment selling; Containers; Dealer helps; Exclusive agencies; Family of products; Farm produce—Marketing; Food brokers; Fruit—Marketing; Jobbers; Mail order business; Manufacturers' agents; Market areas, Law of; Market surveys; Price policies; Private brands; Products, Improved; Products, New; Products, Obsolescent; Retail stores, Manufacturers'; Retail trade; Sales policies; Salesmanship; Salesmen, Retail; Street trades; Substitution (marketing problem); Traveling stores; Warehouses; Warehousing

Cost

Competition makes marketing costs range as high as 20 per cent. H. Tipper. Automotive Ind 50:1088-9 My 15 '24
Costs and margins in marketing. J: D. Black and H. B. Price. Ann Am Acad 117:184-200 Ja '25
Is the cost of distribution too high. P. M. Mazur. Harvard Business R 4:7-16 O '25; Same. Paper Tr J 81:57-60+ N 12 '25
Is the farmer a martyr—or a pirate? Sales Management 6:1059-60+ Je '24
Margins of profit. Nat City Bank p 106-15 Jl '24
Measuring the spread from farmer to consumer. W. P. Hedden. Ann Am Acad 117:177-83 Ja '25
Of course distribution is costly. B. Barton. Ptr Ink 133:101-2 O 29 '25; Same. Brick & Clay Rec 67:943 D 22 '25
On the trail of excessive distribution costs. H. A. Haring. Annalist 25:127 Ja 19 '25
Reducing cost of distribution. J: W. O'Leary. il Iron Tr R 77:959-60 O 15 '25
Volume production is not synonymous with profit. H. Tipper. Automotive Ind 50:1138-9 My 22 '24
Wholesaler's role in reducing distribution costs. R. Tenk. Ptr Ink 130:103-4+ F 19 '25
Why selling costs range high. H. R. Wellman. Nation's Business 11:18-19 D '23
Yes, we can cut marketing costs. H. Hoover. Nation's Business 13:48+ Mr '25

Government aid

Government analyzing domestic markets and mapping trade zones. H: H. Morse. Ptr Ink 128:10+ Ag 28 '24
Uncle Sam as a business doctor. S. Anderson. Ptr Ink 130:17-20 Ja 15 '25

MARKETING, Cooperative
Agricultural associations. Monthly Labor R 20:426-9 F '25
Agricultural commission of A.B.A. at Omaha adopts resolution endorsing co-operative marketing movement. Comm & Fin Chr 117: 2165-6 N 17 '23
Billion dollar enterprise springs from the soil. M. L. Corey. Am Bankers Assn J 17:83-5 Ag '24
Bunk! a great American industry. C. W. Tufts, pseud. il Nation's Business 12:36-7 My '24
Canadian wheat pools. C. R. Fay. Econ J 35:26-9 Mr '25
Consolidations of bituminous mining operations. J: C. Brydon. Min Cong J 10:202-4 My '24
Cooperation in agriculture. Index p 4-5 Ja '25
Co-operative cotton marketing organizations. C. B. Howard. Comm & Fin 13:1795+ S 17 '24
Co-operative marketers oppose legislative tinkering. Comm & Fin 14:60 Ja 14 '25
Co-operative marketing and the business of agriculture in the United States. O. D. Foster. Econ W n s 30:116-19 Jl 25 '25
Cooperative marketing is producing business-farmers. R. P. Merritt. il Am Bankers Assn J 18:71-2+ Ag '25
Co-operative marketing of British sulphate of ammonia. Chem & Met Eng 31:582 O 13 '24
Co-operative marketing seen as step in cutting coal cost. P. Wooton. Coal Age 26:516 O 9 '24
Cooperative production and marketing. A. E. Taylor. Monthly Labor R 19:464-5 Ag '24
Co-operative selling: is it the hope of the small unit manufacturer; how 3-More plan is being applied to notions industry. D. Gridley. Ptr Ink 126:49-50+ F 28 '24
Co-operatives sold 8% of cotton crop—marketed 1,125,000 bales last year. Comm & Fin Chr 121:1303-4 S 12 '25
Court decision as to Minnesota cooperative marketing act. Monthly Labor R 21:630-1 S '25

MARKETING, Cooperative—*Continued*
Court decisions as to contracts with co-operative marketing associations. Monthly Labor R 19:668-71 S '24
Credits for the cooperatives. M. L. Corey. Am Bankers Assn J 17:379-80+ D '24
Extent of co-operative marketing among farmers today and the results secured by co-operative associations. B: H. Hibbard. Ann Am Acad 117:201-7 Ja '25
Farmer tackles his biggest job. O. M. Kile. il Nation's Business 12:36-7 O '24
Farmers and the grain trade in the United States: an interpretation of the present pooling movement. J. E. Boyle. Econ J 35:11-25 Mr '25
Farmers urged by Department of agriculture to study economic need for formation of cooperative marketing organizations. Comm & Fin Chr 120:281 Ja 17 '25
Financial gains of marketing successfully through co-operation. T. Macklin. Ann Am Acad 117:208-16 Ja '25
Grower-group control. M: Tobriner. Univ J of Business 3:33-47 D '24
Growth of wool cooperatives. Textile World 68:1598+ S 19 '25
Labor union takes a hand in sales problem of an industry; cooperative marketing of fish. J. M. Mosely. Ptr Ink 126:61-2 Ja 24 '24
Limits to what cooperation will do. S. Anderson. Nation's Business 12:16-18 F '24
Management problems of cooperative marketing associations. L. S. Tenny. Harvard Business R 2:453-64 Jl '24
Marketing fluid milk in Philadelphia; an experience in sales co-operation. R. W. Balderston. Ann Am Acad 117:231-42 Ja '25
Need of co-operation in farming. C. Coolidge. Comm & Fin Chr 120:151-2 Ja 10 '25
Over 12,000 farmers' co-operative organizations in operation. W. M. Jardine. Manuf Rec 88:91 Jl 9 '25
Past performance of cotton co-operatives. Comm & Fin 14:1795 S 16 '25
Possibilities and limitations of co-operative marketing. H. E. Erdman. Ann Am Acad 117:217-26 Ja '25
Report to President Coolidge by Eugene Meyer, jr. and Frank W. Mondell decides that co-operative wheat marketing associations most helpful of all plans. Comm & Fin Chr 117:2058-62 N 10 '23
Social aspects of farmers' co-operative marketing. B. Y. Landis. 62p Univ. of Chicago press '25
Some elements entering into consideration of the financing of co-operative marketing. C. A. Austin. Comm & Fin Chr 117:2488-9 D 8 '23
Some observations on the co-operative marketing of farm products in the United States. Econ W n s 27:261-2 F 23 '24
Sun-maid upholds the right arm of the grocer. R. P. Merritt. Ptr Ink 127:61-2+ Je 26 '24
Vertical combination and how it reduces distribution costs. W: R. Basset and J. Heywood. chart Ind Management 66:278-80 N '23
What a sales manager did for 12,000 Minnesota farmers. E. Whitmore. il Sales Management 8:445-6+ Mr 21 '25
Wheat man's problems; a way out. G: C. Hewett. il Am Ind 24:5-9 N '23

See also Farm produce—Marketing; Fruit—Marketing; Grain marketing company; *also* Canadian co-operative wool growers

MARKETING, Foreign
Accessory makers can reach export market at low cost. P. A. Karl. Automotive Ind 50: 554-5 Mr 6 '24
Breaking into the British market. W. G. Clifford. Sales Management 6:1029-30+ pt 2 My '24
Developing export sales with a one-man organization. B. G. Peck. Ptr Ink 129:41-2+ O 30 '24
Gravest menace to American exporting. J. Klein. Annalist 25:677 My 18 '25
How Gillette increased foreign sales from 200,000 to 2,000,000 razors. T: W. Pelham. Sales Management 7:1389-90+ Ag '24
How to start a British company. W: Frost. il Sales Management 8:77-8+ sec 2 Ja 10 '25
Opening new export markets. W. F. Wyman. System 46:167-8+ Ag '24
Our experience selling Eversharp pencils in England. C. A. Frary. il Sales Management 6:889-90 pt 2 Ap '24
Our present foreign markets—what they are and where they are. A. T. Marks. Textile Col 47:35-6 Ja '25

See also Export trade—Sales management

MARKETS, Municipal
Municipal markets provide the best at the lowest price. il Nation's Health 7:563-4 Ag '25

MARKETS, New
Advertising gives century old company key to wider markets; development of Safedge glassware. Ptr Ink 127:8+ Ap 3 '24
Advertising that widens the neck of the sales bottle. A. S. Myers. Ptr Ink M 10:114+ Ja '25
Another way to create new uses; manufacturer of Dolly Madison bedspreads finds a market for draperies to match. Ptr Ink 126: 25-7 Ja 31 '24
"Any woman's blues"; Wisconsin chair company sells phonograph records to colored folk. Ptr Ink 127:69-70 My 29 '24
Capitalizing past prestige to open new markets; Murphy varnish company. F. Murphy. il Ptr Ink M 10:39-40+ Je '25
Dramatic advertising scenarios from foreign sales experiences. Ptr Ink M 8:74+ F '24
Football as a big secondary market. Ptr Ink M 9:112+ N '24
How manufacturers are working with the schools for bigger sales. Sales Management 9:345+ S 19 '25
How the American surety co. creates new customers in a limited field. J. Henle. Ptr Ink M 8:112+ My '24
In time of prosperity, Barrett company is after future market. D. MacLean. il Ptr Ink 127:41-2+ My 15 '24
Making a slow-moving staple hustle; Morton salt company finds new markets. D. Hubbard. Ptr Ink 129:156+ D 11 '24
Neglected markets that have built big businesses. E. B. Weiss. il Ptr Ink M 8:35-6+ Je '24
Old-fashioned yellow slicker breaks into society. Sales Management 7:1660 O '24
Overselling or underselling? E. Dakin. Comm & Fin 14:289-90 F 11 '25
Reaching the neglected eighty per cent of the market; Stanley works of New Britain, Conn. M. Hastings, jr. Ptr Ink 127:25-6+ Ap 10 '24
Sales opportunities in the school and college market. il Sales Management 9:49-52+ Jl 11 '25
Seeking new markets. J. A. Farrell. World's Markets 14:13-14 F '24
Seeking safety through new markets; Vlcheck tool company. Ptr Ink 128:61-2 S 4 '24
Washburn-Crosby gets new market while old one shrinks. Ptr Ink 127:159-60 My 1 '24

See also Supply and demand

MARKETS, Public
Is a public market a good public investment? C. B. Sherman. il Am Bankers Assn J 16: 501+ F '24
Public market as a retail outlet. Ptr Ink 128: 97-8+ Ag 14 '24

See also Markets, Municipal

MARKETS, Roadside
Business that lifted itself by its own bootstraps; Kree-mee fudge. M. Hastings, jr. Ptr Ink 132:125-6+ S 3 '25
How one boy started business which absorbed his family. C. E. Richards. il Forbes 16: 594-5 Ag 1 '25
Road side market, designed by Connecticut agricultural college. diags plan Bldg Age 46:68-9 F '24

MARKHAM, Charles H.
Nothing is small in selling; Illinois Central cultivation of public relations; interview with Charles H. Markham. D. M. Hubbard. por Ptr Ink M 11:27-8+ Jl '25

MARKING machines
Noble & Westbrook flange-marking machine. il Mach 30:644 Ap '24
Noble & Westbrook marking machine for cylindrical work. il Iron Age 113:373 Ja 31 '24

MARL
Construction of pavement with marl-asphalt in North Carolina. W. F. Morson. il Eng & Contr (R & S) 62:517-20 S 3 '24
Minnesota marl. R. E. Kirk. Chem Age 32: 492-3 D '24

MARQUETTE, Michigan

Water supply

Tastes in the water supply of Marquette, Mich., due to phenol wastes. P. Hansen. flow sheet diags plans N E Water Works Assn J 39:320-42 D '25; Abstract. Eng N 95:469 S 17 '25; Discussion. N E Water Works Assn J 39:343-4 D '25

MARQUISE
Oriental marquise for an oriental store. il diag Sheet Metal Worker 15:449-50 Jl 4 '24
Structural detail and layout of marquise. W: Neubecker. diags Sheet Metal Worker 15: 193-6 Ap 11 '24

MARQUISETTE
Marquisettes; successful method of weaving on plain looms. Textile World 66:365+ Jl 19 '24

MARS
New facts about life on Mars. H: N. Russell. Sci Am 132:97 F '25

See also Communication, Interplanetary

MARSHALL, Alfred, 1842-1924
Bibliographical list of the writings of Alfred Marshall. J. M. Keynes. Econ J 34:627-37 D '24
Sketch. Economist 99:90-1 Jl 19 '24
Sketch. J. M. Keynes. pors Econ J 34:311-72 S '24

MARSHES, Tide
Evolution and colonisation of tidal lands. Engineering 120:469-71 O 16 '25; Discussion. 120:553 O 30 '25

MARSHFIELD, Wisconsin
Marshfield, Wis., gets well supply after 25 years' search. il Eng N 92:843 My 15 '24

MARTIN, Thomas Commerford, 1856-1924
Sketch. por Elec W 83:1100 My 24 '24

MARTIN furnaces. See Open hearth furnaces

MARYLAND
Maryland. E: B. Mathews. Manuf Rec 86: 384-6 pt 2 D 11 '24

See also Architecture—Maryland; Roads—Maryland; Water supply—Maryland

Industries and resources

Maryland—her recent progress. A. C. Ritchie. Manuf Rec 86:382-3; Statistics. 386 pt 2 D 11 '24
Maryland manufactures, 1923. Manuf Rec 87:89 Je 11 '25

Sanitary affairs

Metropolitan district plans in Maryland. A. Wolman. map Pub Works 55:242-5 Ag '24

MARYLAND & Pennsylvania railroad
Maryland & Pennsylvania. R.R., 1st 4s, 1951 (rated Aa). Moody's Inv Serv 16:108 Mr 13 '24

MARYLAND casualty company
Why this business built a home in the suburbs. W: A. McGarry. il Forbes 14:371-3 Je 21 '24

MASARYK, Thomas G.
Portrait. Bankers M 108:915 Je '24

MASARYK academy of work, Prague
Masaryk academy of work. P. M. Atkins. Am Mach 61:829-32 N 27 '24

Management library

European library of American management literature. Taylor Soc Bul 9:186-8 Ag '24

MASHRU. See Satin, Indian

MASLAND, C. H., & sons
Three generations' teamwork does the impossible. W: A. McGarry. Forbes 16:98-100 My 1 '25

MASON, Josiah, 1795-1881
Famous machinists of history. H. H. Manchester. Am Mach 61:756 N 13 '24

MASON, William Pitt, 1853-
Sketch. F. N. Alquist. por Chem Age 31:492 N '23
Sketch. F. W. Schwartz. por Ind & Eng Chem 16:93 Ja '24

MASON CITY, Iowa

Rapid transit

Red Ball lines granted permit. il Bus Transportation 2:599 D '23

MASONIC temples
Building a small masonic temple. P. H. Patrick. il diags plans Bldg Age 46:102-3 D '24
Ivanhoe Masonic Temple, Kansas City, Mo. Arch & Bldg 56:58, pl 127-9 Je '24
Masonic temple, Chester, Pa.; views and plans. Am Arch 126:pl 121-3 O 8 '24
Mecca temple, New York. il plans Am Arch 127:169-80, pl 46-8 F 25 '25
Mecca temple, New York city. il (front) Arch & Bldg 57:11-12, pl 25-8 F '25
Novel structural details in temple building. E. J. Potter. diags Eng N 92:760-1 My 1 '24
Remodeled Masonic temple, Birmingham, Ala. il plans Arch Forum 41:169-72 O '24
Structural design of the Davenport, Iowa, Masonic temple; heating and other features. il diags plans Am Arch 127:289-305 Mr 25 '25

MASONRY
Audels masons and builders guide. F. D. Graham and T: J. Emery. 4v T. Audel & co., New York '24
Catechism of central station gas engineering in the United States. Am Gas J 123:13-14 Jl 4 '25
Efflorescence: its cause and remedy. il Arch & Bldg 56:36 Ap '24
Factors affecting brick masonry strength. S. H. Ingberg. diag Am Soc T M Pro 24 pt 2: 909-19 '24
Masonry estimating and details. I. P. Hicks. diags Bldg Age 47:164+ F '25
Recommended minimum requirements for masonry wall construction. 57p [bibliog. p. 52-7] U.S. Dept. of commerce, Building code committee, Washington, D.C. '25

See also Arches; Brick construction; Bricklaying; Bricks; Bridges—Foundations and piers; Bridges, Concrete; Building; Building stone; Cement; Concrete brick; Concrete construction; Dams; Foundations; Mortar; Plaster and plastering; Retaining walls; Walls

MASONRY, Subaqueous
Sous-pression dans les joints des maçonneries noyées. G. Coullié. diags Génie Civil 86:111-12 Ja 31 '25

MASS action, Law of
Equilibrium pressures of individual gases in mixtures and the mass-action law for gases. L: J. Gillespie. Am Chem Soc J 47:305-12 F '25

MASS buying. See Purchasing, Cooperative

MASSACHUSETTS

See also Electric plants (central stations)—Massachusetts; Electric railroads—Massachusetts; Geology—Massachusetts; Hydroelectric plants—Massachusetts; Roads—Massachusetts; Street railroads—Massachusetts; Wages—Massachusetts; Water supply—Massachusetts

Economic conditions

Higher cost of food in Massachusetts. R. J. McFall. Am Statis Assn J 19:362-76 S '24

MASSACHUSETTS—*Continued*

Safety council

Annual conference, 3d, Worcester, May 1-2. Safety Eng 47:248-9+ My '24

MASSACHUSETTS institute of technology

Cooperative course in electrical engineering. W. H. Timbie. Am Inst E E J 44:613-17 Je '25; Discussion. 44:1127-9 O '25

How M.I.T. makes chemical engineers. C. Wadsworth. Chem & Met Eng 32:161-3 Ja 26 '25

M. I. T. aeronautical course; the pioneer American course in aeronautical engineering. Aviation 19:42-3 Jl 13 '25

Massachusetts institute of technology plan for industrial coöperation. C. L. Norton. Am Cer Soc J (Bul) 7:247-55 Jl '24

Recognizing the exceptional student. Mech Eng 47:865 O '25

Research laboratory of applied chemistry

Research laboratory with a human product. C. Tyler. il Chem & Met Eng 32:285-8 F 16 '25

MASTER boiler makers' association

Annual convention, 15th, Chicago, May 20-23. Ry Age 76:1275-7 My 24 '24; Ry Mech Eng 98:343, 434-5, 498-500 Je-Ag '24; Power Pl Eng 28:677 Je 15 '24

Annual meeting, 16th, Chicago, May 19. Ry Mech Eng 99:370-1 Je '25

MASTER house bureau

Co-operative work that strikes out along new lines. A. Leslie. Ptr Ink 129:165-6+ D 11 '24

MASTERS, Robert E., 1848-

Veteran had rare foundry career. por Foundry 52:651 Ag 15 '24

MASTS and rigging

Art of rigging. G: Biddlecombe. 155p Marine research society, Salem, Mass. '25

MASURIUM

Masurium and rhenium—two missing elements—found. Sci Am 133:336 N '25

MATCHES

Changes in the match trade. Economist 98: 519-20 Mr 8 '24

Match industry, its origin and development. W: H. Dixon. 150p Pitman '25

See also Phosphorus poisoning

MATERIA medica

Use of colloids in medicine. A. Davidson. Chem Age (Lond) 11:134-6 Ag 9 '24

MATERIAL control

Capitalizing the advantages of the small factory. D. S. Cole. Ind Management 69:360-4 Je '25

New type of material control record. R. E. Case. il Management & Adm 9:543-8 Je '25

See also Inventories; Stores systems

MATERIAL handling. See Handling of materials; Mechanical handling

MATERIALS. See Building materials; Paper making materials; Raw materials; Road materials; Tanning materials

MATERIALS, Handling of. See Handling of materials; Mechanical handling

MATERIALS, Purchasing of. See Purchasing

MATERIALS, Strength of. See Strength of materials

MATHEMATICAL physics

Evolution of mathematical physics. H. Lamb 48p Macmillan '24

Heaviside's operators in engineering and physics. E. J. Berg. diags J Fr Inst 198:647-702 N '24

See also Elasticity; Electricity; Gases, Kinetic theory of; Hydrodynamics; Impact; Magnetism; Optics; Physical measurements; Sound; Tensors; Thermodynamics

MATHEMATICAL recreations

X+y problem. diag Sci Am 132:214; 133:283+ Mr, O '25

MATHEMATICS

Analogy between pure mathematics and the operational mathematics of Heaviside by means of the theory of H-functions. J. J. Smith. J Fr Inst 200:519-34, 635-72, 775-814 O-D '25

Biomathematics; being the principles of mathematics for students of biological science. W: M. Feldman. 398p Lippincott '23

Draftsman's mathematical manual. E. V. Oberg. 249p Industrial press, New York '24

Elementary mathematical analysis. C: S. Slichter. 3d ed. 473p McGraw-Hill '25

Engineer's mathematical recreations. R. Fleming. Can Eng 47:645-7 D 30 '24

Human worth of rigorous thinking; essays and addresses. C. J. Keyser. 2d ed., enl. 323p Columbia univ. press, New York '25

Mathematical principles of finance. F: C: Kent. 253p McGraw-Hill '24

Mathematics for technical students. E. R. Verity. 468p Longmans '24

Die mathematische methode: logisch erkenntnistheoretische untersuchungen im gebiete der mathematik, mechanik und physik. O: Hölder. 563p J. Springer, Berlin '24

Practical mathematical analysis. H. Von Sanden. 195p Dutton

Practical mathematics. G. M. Hobbs, E: B. Waite and J: P. Schroeter. 172p Am. tech. soc., Chicago '24

Synopsis of applicable mathematics. L. Silberstein. 267p Van Nostrand '23

Third-year mathematics for secondary schools. E. R. Breslich. 369p Univ. of Chicago press '24

See also Algebra; Arithmetic, Commercial; Bessel's functions; Calculus; Coordinates; Curves; Differential equations; Dynamics; Errors, Theory of; Fourth dimension; Functions, Exponential; Geometry; Graphic methods; Graphic statics; Harmonic analysis; Interest; Logarithms; Mechanics; Mensuration; Metric system; Probabilities; Square root; Triangle; Trigonometry; Vector analysis

Bibliography

Brief list of mathematical books suitable for libraries in high schools and normal schools. 14p Teachers college, Columbia univ., 525 W. 120th st., New York

History

History of mathematics. D: E. Smith. 2v 596p; 725p Ginn '23-'25

History of mathematics in Europe, from the fall of Greek science to the rise of the conception of mathematical rigour. J: W: N. Sullivan. 109p Oxford '25

Philosophy

Introduction to mathematical philosophy. B. A. W: Russell. 208p Macmillan '24

Tables, calculations, etc.

Formulae for facilitating computations in time series analyses. F. A. Ross. Am Statis Assn J 20:75-9 Mr '25

Formules et tables numériques relatives aux fonctions circulaires, hyperboliques, elliptiques. L. Potin. 862p G. Doin, Gauthier-Villars & c^ie, Paris '25

Mathematical tables. H. C. Ives. 130p Wiley '24

Smithsonian mathematical formulae and tables of elliptic functions. E. P. Adams and R. L. Hippisley. (Smithsonian miscellaneous collections v. 73, no. 1) 314p Smithsonian institution, Washington '22

See also Charts (calculating)

MATHER, Kirtley F.

Portrait. Sci Am 131:309 N '24

MATHER, Stephen T.

Our pied piper of parks. F: Simpich. il Nation's Business 12:18-21 D '24

MATSYS, Quintin, 1466-1530

Sketch. H. H. Manchester. por Am Mach 60: 728 My 15 '24

MATTER
Concerning the nature of things. W: Bragg. 250p Harper '25
Foundations of the universe. M: Luckiesh. 245p Van Nostrand '25
Matter and radiation; abstracts. O. Lodge. Engineering 119:158-9 F 6 '25; Engineer 139:139-40 Ja 30 '25
Matter, ether and energy. O. Lodge. il Sci Am 133:80-1 Ag '25
Matter—is there anything in it? W. R. Whitney. diags Ind & Eng Chem 17:885-90 S '25; Same cond. Gen Elec R 28:682-9 O '25
Nature of matter. H. B. Lemon. Soc Auto Eng J 13:466-70; Discussion. 470-2 D '23
Properties of matter under high pressure. P. W. Bridgman. il diags Mech Eng 47:161-9 Mr '25
Structure of matter. J: A. Cranston. 196p Van Nostrand '24
Les théories modernes relatives à la constitution de la matière. H. Abraham. Soc Ing Civils Bul 78:356-439 My '25
Twilight zone of matter. A. Findlay. Ind & Eng Chem 17:891-4 S '25; Same. Chem Age (Lond) 13:274-5, 328-9 S 12, 26 '25

See also Adsorption; Atoms; Brownian movements; Capillarity; Chemistry; Colloids; Compressibility; Critical point; Diffusion; Dissociation; Dynamics; Elasticity; Electromagnetic theory; Electrons; Flocculation; Force and energy; Gases; Gravitation; Hardness; Ions; Molecules; Physics; Solution (chemistry); Specific gravity; Viscosity

MATTICE, Asa Martines, 1853-1925
Sketch. W. M. McFarland. Mech Eng 47:779-80 S '25

MATTRESSES
Dry sterilization of mattresses. T: Telfer. Am Gas J 122:444+ My 23 '25
Hair in hair mattresses. Comm & Fin 13: 2496 D 31 '24
Warning to mattress bootleggers. Ptr Ink 126:116 F 28 '24

Advertising
Advertising to sell dealers a department in their stores. Ptr Ink 125:123-4 D 20 '23
Shall we sell the product, or its environments? Derry-made mattresses. H: Burwen. Ptr Ink 125:17-19 D 6 '23

MATTRESSES (hydraulic engineering)
Brush mattress and mud-cell revetment protects Missouri Pacific Ry. il diag Eng N 92:1024-5 Je 12 '24
Willow mattress bank revetment. R. P. Howell. Eng & Contr (Ry) 62:1139-40 N 19 '24

MAUDSLAY, Henry, 1771-1831
Famous machinists of history. H. H. Manchester. Am Mach 61:729 N 6 '24

MAUSOLEUMS. See Tombs

MAW, William Henry, 1838-1924
Sketch. por Engineer 137:313 Mr 21 '24; Engineering 117:371-4 Mr 21 '24; Mech Eng 46: 301 My '24

MAXIM, Hiram, 1840-1916
Famous machinists of history. H. H. Manchester. Am Mach 62:462 Mr 19 '25

MAXWELL motor corporation
Consolidated balance sheet, December 31, 1923. Comm & Fin Chr 118:1036 Mr 1 '24
Consolidated balance sheet, Dec. 31, 1924. Comm & Fin Chr 120:2167 Ap 25 '25

MAXWELL'S distribution law
Distribution of initial velocities among thermionic electrons. L. H. Germer. diags Phys R 25:795-807 Je '25
Distribution of velocities among the electrons emitted by hot platinum in an atmosphere of hydrogen. H. H. Potter. diags Philos Mag 6th ser 46:768-84 N '23
Kinetic energy of electrons emitted from a hot tungsten filament in an atmosphere of (a) argon (b) hydrogen. J. F. Congdon Philos Mag 6th ser 47:458-65 F '24

MAYAS
Amazingly accurate calendar system of the Maya Indians. J. C. Bardin. diags Sci Am 133:312-13 N '25

Antiquities
Architecture of the ancient Mayas. S. K Lothrop. il Arch Rec 57:491-509 Je '25

MEAD, Elwood
To head Reclamation bureau. por Eng N 92: 630 Ap 10 '24

MEASUREMENT
Master gages and the higher courts in measuring. J. K. Wood. Am Mach 62:873-6 Je 4 '25
Shop measurements; English and metric standards of length and their interrelation. E. Buckingham. Mech Eng 46:535-8 S '24
Some limitations on manufacturing to close limits. B. H. Blood. il diags Mech Eng 46: 186-8+ Ap '24; Same. Iron Tr R 74:1305-8 My 15 '24; Same cond. Iron Age 113:927-9 Mr 27 '24; Excerpt. Am Mach 60:608 Ap 24 '24

See also Angles; Area measurement; Calorimeters and calorimetry; Coal measurement; Colorimeters and colorimetry; Electric measurement; Gages; Gas flow; Gas measurement; Magnetic measurements; Measuring instruments; Mensuration; Meters; Micrometers; Oil measurement; Photometry; Physical measurements; Pitot tube; Pyrometers and pyrometry; Standards of length; Surveying; Temperature—Measurement; Thermometers and thermometry; Water flow; Water measurement; Water meters; Weights and measures; Wood measurement

MEASUREMENT, Electric. See Electric measurement

MEASUREMENT, Magnetic. See Magnetic measurements

MEASUREMENT of light. See Photometry

MEASUREMENT of management. See Industrial management—Measurement

MEASURING instruments
Bethel-Player measuring machine and comparator. il Am Mach 61:521 S 25 '24
High-precision measuring machines. J. K. Wood. il Am Mach 62:945-9 Je 18 '25; Discussion. 63:420 S 10 '25
Instructions for the operation, care, and repair of measuring instruments. 54p U.S. Bureau of engineering, Navy dept., Washington '24
Measurement of engine vibration phenomena. C. E. Summers. il diags Soc Auto Eng J 16:163-71 F '25; Abstract. Automotive Ind 52:135-7 Ja 22 '25; Discussion. Soc Auto Eng J 16:132-3 F '25
Measuring systems and tolerance limits. P. J. Darlington. diags Mech Eng 47:903-5 N '25
New instruments for physical measurements developed in connection with recent research work by the Ordnance department. W. H. Tschappat. il diags Mech Eng 45:673-8 D '23
Steel tapes for measuring large diameters. G: C. Reilley. il diags Am Mach 62:26 Ja 1 '25
Theory of measurements. L. Tuttle and J: Satterly. 333p Longmans '25
Universal measuring machine. il Mach 31:387-8 Ja '25
Use of an oscillograph in mechanical measurements. H. L. Curtis. il diags Am Inst E E J 44:45-52 Ja '25; Discussion. 44:640-4 Je '25
Use of measuring instruments in oil refining. H. S. Bell. Nat Pet N 16:39+ Ja 9; 71-2+ F 20 '24
Vom wärmetechnischen messwesen in glashütten. H. Maurach. diags Zeit Ver Deutsch Ing 68:520-4 My 24 '24
Workshop gauges and measuring appliances. L: Burn. 154p Pitman '24

See also Calipers; Dilatometer; Electric instruments; Gages; Inclinometers; Meters; Micrometers; Oscillographs; Protractors; Slide rule; Timing devices; Vibrograph

Manufacture
Generating precision tools. W: E. Hoke. il diags Mach 31:421-5 F '25

MEASURING instruments, Optical
Les calibres-étalons parallélépipédiques; fabrication et contrôle des étalons Hoke, aux Etats-Unis. R. Perrin. il diags Génie Civil 86:29-33 Ja 10 '25
Carl Zeiss optimeter. il Am Mach 61:560 O 2 '24
Hilger optical gauges. Engineering 117:10 Ja 4 '24
Microscopic measuring machine. C. M. Gottschau. diags Mach 31:791-2 Je '25
Optical measuring instruments. L. C. Martin. 278p Van Nostrand '24
Optical measuring tools. il diags Mach 31:768-71, 867-70 Je-Jl '25
Optical strain gages and extensometers. L. B. Tuckerman. il diags Am Soc T M Pro 23 pt 2:602-10 '23
Optical stress-strain recorders. Engineer 136: 479-80 N 2 '23
Ruling line standards. H. B. Lewis and C. G. Peters. il plan Mech Eng 46:796-8 pt 2 N '24
See also Stroboscopic instruments; Thermorelay

MEAT
How chemistry helps solve livestock problems. J: R. Mohler. Am Inst Chem Eng Trans v 15 pt 2:185-91 '23
Meats and meat products. W: H: Tomhave. 418p Lippincott '25
See also Beef; Packing industry; Pork; Smokehouses

Analysis
Rate of disappearance of sulphites in raw meat. F. H. Campbell. Soc Chem Ind J 43:297-8 S 26 '24

MEAT, Frozen
Defrosting frozen meat with electricity. il Elec R (Lond) 97:490-1 S 25 '25
Moulds on frozen meats. A. M. Wright. Soc Chem Ind J 42:488-90 D 14 '23
Refrigerated meat traffic. R. Ramsay. Refrig W 59:23-6 Ag '24
See also Pork

MEAT, Powdered
Digestibility of powdered dried meat. C. F. Langworthy and A. D. Holmes. bibliog Nation's Health 6:250-1 Ap '24

MEAT cutters
Meat cutters; Westchester county, N.Y. Monthly Labor R 18:347-8 F '24

MEAT industry and trade
Consumer demand survey that will uncover new facts; a government investigation of meat retailing. Ptr Ink 129:10+ O 23 '24
Expenses, profits and losses in retail meat stores. H. Secrist. 70p Northwestern univ., School of commerce, Chicago '24
Foreign import duties on wheat, wheat flour, meat and meat products. F. W. Fetter and H: Chalmers. U S Bur For & Dom Com Trade Information Bul 233:1-37 '24
Influences of methods and costs of retailing and consumers' habits upon the market for meat. Review. Ptr Ink 130:99-100 Ja 1 '25
Marketing of American meat products in export trade. J. E. Wrenn. U S Bur For & Dom Com Trade Information Bul 333:1-60 '25
New jobs cut out for trade associations; Institute of American meat packers blazes trail. R. H. Barker. Ptr Ink 129:145-6+ D 4 '24
Now the tenderloin steak is given a package. Ptr Ink 131:73-4 Ap 2 '25
Packing industry. 357p Univ. of Chicago press, Chicago '24
Price of a porterhouse; story. F. S. Tisdale. il Nation's Business 13:13-16 Ag '25
Profits in meat packing. Nat City Bank p 61-2 Ap '24
Record production of meat and low prices. Comm & Fin Chr 118:496 F 2 '24
Refrigerated meat traffic. R. Ramsay. Refrig W 59:23-6 Ag '24
Retail marketing of meats. H. C. Marshall. U S Agric Bul 1317:1-86 '25
This government report discusses misleading advertising. Ptr Ink 132:153-4+ Jl 23 '25
See also Beef; Cold storage; Lambs; Live stock; Packing houses; Packing industry; Pork industry and trade; *also* Institute of American meat packers

Great Britain
Contribution to the study of London's retail meat trade. W. R. Dunlop. Econ J 35: 416-28 S '25
Meat, fish, and dairy produce. J. R: A. Davis. 104p [bibliog. p. 95-101] E. Benn, ltd., London '24

United States
Domestic exports of meats and fats. Comm & Fin Chr 119:2474 N 29 '24 [continued monthly]
Export trade of the United States in meats and fats in the fiscal year 1923-1924. B. M. Mace, jr. Econ W n s 28:404-6 S 20 '24
Exports of meats and fats large in volume but meats lower in price. Comm & Fin Chr 119:396 Jl 26 '24
Packing companies. Moody's Inv Serv 17: 241-2 Jl 23 '25
Per capita consumption of meat in the United States. Econ W n s 29:626-7 My 2 '25

MEAT inspection
Text-book of meat hygiene. R: H. Edelmann. 5th ed., rev. 478p Lea & Febiger, Philadelphia; New York '25

MECHANICAL draft
Control of power production. C: L. Hubbard. il Factory 33:667-70+ N '24
Development of mechanical draft equipment. C. A. Booth. il Power Pl Eng 29:133-6 Ja 15 '25
Discourse on draught for rolling mill furnaces. W: Lester. Blast F & Steel Pl 13:404+ O '25
Forced draft fan or higher stack. Power Pl Eng 28:406-7, 450, 617-18, 669, 716-17 Ap 1-15, Je 1-Jl 1 '24
Inducto induced draft appliance for burning buckwheat coal in house-heating boilers. il Heat & Ven 21:75-6 N '24
Mechanical draft. Ry Age 76:1513-15 Je 14 '24
New system of induced draft developed. diags plans Marine R 54:422-4 N '24
Overcoming forced draft difficulties. W: J. McGurk. diags Power Pl Eng 28:252 F 15 '24
Report to the convention of the International railway fuel association on fronts, grates and ashpans. E: C. Schmidt. diags Ry R 74:999-1004 Je 7 '24
Saugzuganlagen bei schiffskesseln. diags Zeit Ver Deutsch Ing 69:136-7 Ja 31 '25
When forced draft is used. il Brick & Clay Rec 67:408-9 S 15 '25
See also Blowers; Boilers; Fans, Mechanical

MECHANICAL drawing
Advice to a beginner in mechanical drawing. il diags Sci Am 132:355+ My '25
Blue-print reading and shop sketching for the metal trades. H. C. Givens. 120p Wiley '24
Drafting methods. D. S. Trowbridge. 154p Codex book co., inc., New York '25
Electrical drafting and design. C. C. Bishop. 165p McGraw-Hill '24
Elementary mechanical drawing. C: W: Weick. 2d ed., rev. 251p McGraw-Hill '25
Fundamentals of mechanical drawing. R: S. Kirby. 2d ed. 103p Wiley '25
Manual of engineering drawing for students and draftsmen. T: E. French. 3d ed., rev. & enl. 409p McGraw-Hill '24
Mechanical drawing problems. J: F. Faber. 222p Bruce pub. co., Milwaukee, Wis. '25
Self-taught mechanical drawing and elementary machine design. F. L. Sylvester. 3d ed. 345p Henley '23
See also Architectural drawing; Blueprints; Drafting room practice; Geometrical drawing; Graphic methods; Machinery—Design; Plumbing—Drawing; Structural drawing

MECHANICAL drawing—*Continued*

Study and teaching

Content of a drawing course. T: E. French. Eng Educ 14:114-20 N '23

Methods of teaching engineering drawing. F. G. Higbee. Eng Educ 14:243-8 Ja '24

Psychology in drawing. M. Wenk. Eng Educ 14:249-56 Ja '24

Teaching of engineering drawing. C. L. Svenson. diags J Eng Educ 15:712-17 My '25

Training of mechanical draftsmen. C. M. Goodier. Mach 30:975 Ag '24

MECHANICAL engineering

Feinmechanik und maschinenbau. O. Richter. il diags Zeit Ver Deutsch Ing 68:1089-92 O 18 '24

Freytags Hilfsbuch für den maschinenbau für maschineningenieure sowie für den unterricht an technischen lehranstalten. F. Freytag. 7th ed., rev. 1490p J. Springer, Berlin '24

Machinery's handbook for machine shop and drafting-room. E. Oberg and F. D. Jones, eds. 6th ed., rev. & enl. 1592p Industrial press, New York '24

Maschineningenieurwesen. A. Riedler. Zeit Ver Deutsch Ing 68:1305-8 D 20 '24

Mechanical engineering in the colonies; presidential address before the Institution of mechanical engineers; abstracts. V. L. Raven. Engineering 120:556-7 O 30 '25; Engineer 140:466-7 O 30 '25; Electrician 95: 501 O 30 '25

Mechanical engineering of management in the metal-working trades. R. T. Kent. Mech Eng 46:272-3+ My '24

Mechanical engineers' handbook. L. S. Marks. 2d ed, rev. 2000p McGraw-Hill '24

Nouvelle encyclopédie pratique de mécanique et d'électricité. H. Desarces. 3v A. Quillet, Paris '24

Progress of mechanical engineering in the military service. G. LeQ. Martel. Engineer 137:124-5 F 1 '24; Engineering 117:132-3 F 1 '24; Discussion. F. L. Watson. 117:313 Mr 7 '24

Recent progress in engineering production. C. M. Linley. 355p Van Nostrand '24

Tulley's handbook, steam and electrical. H: C: Tulley. 7th ed., rev. & enl. 3v McGraw-Hill '24

Whittaker's mechanical engineer's pocket book. W: E. Dommett, ed. 3d ed. 776p Pitman '22

See also Aeronautic engineering; Aeronautics; Automobile engineering; Automobiles; Boilers; Chemical engineering; Electric engineering; Fuel; Hydraulic engineering; Locomotives; Lubrication and lubricants; Machine shop practice; Machine tools; Machinery; Marine engineering; Mechanical draft; Mechanical handling; Mechanical movements; Mechanics; Motor trucks; Packing; Power (mechanics); Power transmission; Pumping; Railroads—Mechanical departments; Standardization; Steam engineering; Steam engines; Tolerance; Trucks; *also* American society of mechanical engineers

Bibliography

Engineering index. See monthly numbers of Mechanical engineering

Transactions index of the American society of mechanical engineers, volumes 1-45 (1880-1923). 222p American society of mechanical engineers, 29 W. 39th st., New York '24

Exhibitions

See National exposition of power and mechanical engineering equipment

Tables, calculations, etc.

Mechanical engineering formulae. E. W: Huddy. 167p Spon '23

MECHANICAL engineers

Mechanical engineer in the management of woodworking industries. W. L. Churchill. Mech Eng 45:692-4 D '23

See also American society of mechanical engineers

MECHANICAL equipment of buildings

Allotment of space for the mechanical equipment of buildings. N. S. Thompson. Heat & Ven 21:41-4 Je '24

Electrical mechanical equipment. J. G. Turnbull. il Am Arch 125:123-6 Ja 30 '24

Heating, ventilating, electric and elevator equipment for the American radiator building. Am Arch 126:481-2 N 19 '24

Mechanical equipment in buildings. F. S. Marlow. Eng & Contr (Bldgs) 61:1422-3 Je 25 '24

Mechanical equipment of apartment hotels. J. F. Musselman. il plans Arch Forum 41:233-6 N '24

Mechanical equipment of office buildings. C. R. Place. plans Arch Forum 41:147-52 S '24

Mechanical equipment of the Equitable life assurance society building, New York. E: E. Ashley, jr. il Am Arch 128:65-70 Jl 15 '25

Mechanical equipment of the Tribune tower. J. A. Sutherland. W Soc E J 29:465-7 D '24; Same. Eng & Contr (Bldgs) 63:888-90 Ap 24 '25

Modern building is a machine. B. Jones. il Am Arch 125:93-8 Ja 30 '24

Les nouveaux magasins du Printemps, à Paris. J. Michaut. il diags plans Génie Civil 85:81-9, 108-13, pl 3 Jl 26-Ag 2 '24

Power problems of Macy's department store. il plans Power Pl Eng 27:1215-20 D 15 '23

R. H. Macy power plant changes from coal to oil burning. il Power 58:910-12 D 4 '23

Sanitation and water supply in the modern hotel. C. R. Place. diags plan Arch Forum 39:265-8 N '23

See also Electric wiring, Interior; Elevators; Heating; Hot water supply; Lighting; Plumbing; Steam pipes; Ventilation

MECHANICAL fans. See Fans, Mechanical

MECHANICAL handling

Les appareils de manutention mécanique des nouveaux docks de Cambrai. il diags Génie Civil 84:513-16 My 31 '24

Coke-pushing and coal-levelling machine designed by the Wellman Smith Owen engineering corporation. il diag Engineering 120:66-8, 78 Jl 17 '25

Computing savings with material handling equipment. Chem & Met Eng 29:1061 D 10 '23

Controlling the flow of package products by materials handling equipment; assured savings in the B. T. Babbitt plant. J. Mendleson. il plans Management & Adm 7:545-50 My '24

Conveying bundles of newspapers. il Cassier's Ind Management 11:273-4 My 15 '24

Conveyor system that revolutionized a cotton mill. R. T. Kent. il diag Management & Adm 7:411-16 Ap '24

Conveyors require good management. R. T. Kent. Management & Adm 7:539-43 My '24

Cutting corners in material handling. A. G. J. Rapp. il Blast F & Steel Pl 12:Material handling sec 12-16 Ap '24

Devices for mechanical handling. il Chem Age (Lond) 9:568-71 N 24 '23

Economical handling of raw materials in building unit manufacture. diags Concrete 25:13-18 Jl '24

Economy in handling materials in brick manufacture—Baltimore plant. C. B. Bryant. il diag Concrete 24:97-100 Mr '24

Electrical handling of materials. H. H. Broughton. 354p Van Nostrand '23

MECHANICAL handling—*Continued*

Engineering of material handling. E. T. Bennington. il Iron Age 115:213-15, 344-6 Ja 15, 29 '25; Excerpts. Am Mach 62:195-7 Ja 29 '25

Equipment and maintenance in the plant yard. W: G. Ziegler and M: W. Potts. il Ind Management 68:287-93 N '24

Fundamental economies of materials handling. M. L. Begeman. Mech Eng 46:405-10 Jl '24; Same cond. Textile World 66:99+ Jl 5 '24; Same cond., with bibliog. Cassier's Ind Management 12:13-19 Ja '25; Excerpt. Automotive Ind 51:366-8 Ag 21 '24; Abstracts. Chem & Met Eng 30:944-7 Je 16 '24; Ry R 74:1024-8 Je 7 '24; Discussion. Mech Eng 46:410 Jl '24

Handling concrete materials in the Swiss Alps. S. A. Nutter. il map plan Eng N 92: 102-5 Ja 17 '24

Handling facilities for heavy equipment. diags Elec W 85:1402 Je 27 '25

Handling 42,000,000 tons of raw material a year. L. N. Duryea. il Management & Adm 8:155-60 Ag '24

Handling foundry materials. Cassier's Ind Management 11:135-7 Mr 6 '24

Handling material in painting department. E. T. Bennington. il plan Iron Age 113:1413-16 My 15 '24

Handling materials in pulp and paper mills. il diags Paper Tr J 77:45-51 O 25 '23; Same. Cassier's Ind Management 11:161-5 Mr 20 '24

Handling volatile liquids. diag Chem & Met Eng 30:596-7 Ap 14 '24

Hoist that cuts 95% from loading labor. A. L. Greene. il Factory 33:798-9 D '24; Same. Management & Adm 8:652-3 D '24

How modern handling was installed. M: W. Potts. il Ind Management 70:168-72 S '25

Increased production through improved machinery. Monthly Labor R 20:835-6 Ap '25

Is materials handling emulating the automobile industry? M: W. Potts. il Ind Management 67:265-71 My '24

Keeping America safe for Americans with machines. R. B. Williams. il diag Blast F & Steel Pl 12:Material handling sec 1-6 Ap '24

Many uses to which special handling equipment can be put in electric railway work. il Elec Ry J 63:455-62 Mr 22 '24

Die maschinellen einrichtungen der eisenhüttenwerke. H. Hoff. il diags Zeit Ver Deutsch Ing 69:1013-22, 1182-8 Ag 1, S 12 '25

Material handling as our key to many savings; the Studebaker plant. M. R. Denison. il Factory 33:30-3+, 190-3+ Jl-Ag '21

Material handling in the Hydrox plant. diags Refrig Eng 12:94-5 S '25

Material handling problems at the Western electric company. F. J. Feeley. il W Soc E J 30:360-71 Ag '25

Material handling's larger part in production. Factory 34:41-3+ Ja '25

Materialbewegung in glashütten. C. Michenfelder. il diags Zeit Ver Deutsch Ing 68:515-19 My 24 '24

Materials handling in the warehouse. M: W. Potts. il Ind Management 66:337-43 D '23

Measuring the savings of mechanical handling. W. T. Spivey. il Management & Adm 7:551-6 My '24

Mechanical conveying transport appliances. il diags Chem Age (Lond) 13:216-20 Ag 29 '25

Mechanical handling at River Rouge. M: W. Potts. folding pl il diags plans Ind Management 68:67-114 Ag '24

Mechanical handling devices. A. E. Marshall. il Ind & Eng Chem 16:5-9 Ja '24

Mechanical handling devices. F. M. D. Taylor. Cassier's Ind Management 12:376+ Jl '25

Mechanical handling equipment in face brick manufacture. G. L. Montgomery. il Chem & Met Eng 31:413-16 S 15 '24

Mechanical handling in the factory. G: F: Zimmer. bibliog il diags Cassier's Ind Management 12:20-9 Ja '25

Mechanical handling machinery at the British Empire exhibition, Wembley. il plan Cassier's Ind Management 11:297-300, 327-9, 355-60, 385-7, 415-20 My 29-S '24

Modern British superphosphate plant. il Chem Age (Lond) 11:212-13 Ag 30 '24

Multiplied manpower and simplified handling; the hand lift truck and skid system. M: W. Potts. il Ind Management 68:221-8 O '24

Neue wege zum fabrikationserfolg. G. Schlesinger. il diags Zeit Ver Deutsch Ing 69: 269-74 F 28 '25

New plant eliminates hand labor; Standard milling company. A. P. Walker. il plan Management & Adm 9:513-18 Je '25

Next step in material handling. E. T. Bennington. il Factory 34:994+ Je '25

One man now does the work of eight in one-fourth the time. M. J. Dodds. il Factory 35:126+ Jl '25

Overhead carriers, hoists and conveyors in the rubber factory. il India Rubber W 70: 433-5 Ap '24

Profit or loss in material handling. J. A. Shepard. Management & Adm 6:739-42 D '23

Quality production from the application of automatic handling equipment; labor-saving methods of the American sugar refining company. C. J. Alfred. il Management & Adm 7:563-6 My '24

Redler bin discharger for flour and similar fine materials. diag Cassier's Ind Management 12:265-6 Ap '25

Refuse-material-handling apparatus. il diag Elec W 86:468-9 S 5 '25

Savings from conveyor and molding equipment; how foundry management has cut cost and increased output. R. T. Kent. il diags plan Management & Adm 7:209-14 F '24; Same. Cassier's Ind Management 11: 388-92 Ag '24

Selecting material handling methods for economical production; Dunlop tire and rubber corporation. G. L. Montgomery. il plan Chem & Met Eng 32:427-31 Ap '25

Simpler methods of moving materials. Published in monthly numbers of Factory for 1924

Skip tubs replace ore barrows. J. D. Knox. il diag Iron Tr R 76:1189-93 My 7 '25

Speeding industrial progress; how mechanical handling is revolutionizing all industry. M: W. Potts. il Ind Management 67:348-55 Je '24

Storage of minerals on open ground: considered in relation to reclaiming requirements. H. Blyth. il diags plan Chem Age (Lond) 9:562-4 N 24 '23

Straight line methods of handling. M: W. Potts. il Ind Management 69:157-62 Mr '25

Survey of industrial handling. il Factory 35: 184-92, 276+, 369-73+, 552-6+, 730-3+, 896-9+ Ag-D '25

Survey of representative materials handling practice in modern plants. M: W. Potts. il (supp) Ind Management 70:66-121 Ag '25

Transportmittel und transportwege der rohstoffe des Ruhrorter hochofenwerkes der Phoenix-Akt.-Ges. H. Leiber. il diags plan Stahl & Eisen 45:182-9 F 5 '25

Trends in handling materials. F. E. Gooding. il Ind Eng 82:81-9 F '24

Typical jobs where material handling devices pay for themselves. F. E. Gooding. il diags Ind Eng 83:65-70+ F '25

Unloading and placing a nine-thousand-square foot condenser. diags Power 60:814 N 18 '24

MECHANICAL handling—*Continued*
Unloading and placing a sixteen-ton locomotive boiler. A. A. Fette. diags Power 61:69 Ja 13 '25

See also Acid handling; Ash handling; Brick handling; Cableways; Clay handling; Coal handling; Coke handling; Concrete handling; Conveying machinery; Cranes, derricks, etc.; Cupola furnaces—Charging; Dump cars; Dumping appliances; Electric trucks, Industrial; Freight handling; Fruit handling; Gas retorts—Charging machines; Grain handling; Gravel handling; Hoisting; Hoisting machinery; Ice handling; Lifting magnets; Loading and unloading; Lumber handling; Mail handling; Milk handling; Mine haulage; Mine hoisting; Motor trucks; Oil handling; Packaging machinery; Paper handling; Pneumatic conveying; Railroads, Industrial; Runways; Sand handling; Sugar handling; Telpherage; Tiering machines; Trucks; Winches

Cost

Materials handling methods that have added to industrial profits; experience data on actual installations. G: E. Hagemann. Management & Adm 7:557-62, 693-4 My-Je '24
Savings in material handling. G: E. Hagemann. Management & Adm 9:51-4, 153-6, 357-9 Ja-F, Ap '25
Wirtschaftliche grundlagen der lagerung und stapelung. H. Aumund. diags Zeit Ver Deutsch Ing 69:1225-32 S 19 '25

Safety devices and measures

Accidents eliminated by the use of conveyors. F. D. Campbell. Cassier's Ind Management 11:275-7 My 15 '24
Handling material hints from here and there. Nat Safety N 10:38 S '24
Safety—and mechanical handling. M: W. Potts. il Ind Management 70:103-8 Ag '25
Safety required in handling material. D: S. Beyer. Iron Tr R 74:611-12 F 28 '24
Why the T in Texaco emblem is green. G: E. Wallis. il Nat Safety N 11:5-8+ Ja '25

MECHANICAL movements
Details of typical mechanisms. C. M. Linley. 104p Van Nostrand '23
Intermittent motion mechanism. J. E. Fenno. diags Mach 31:475-6 F '25
Intermittent motion mechanism. A. W. Harris. il diags Mach 31:301-4 D '24

See also Cams; Gearing; Machinery, Kinematics of; Pulleys

MECHANICAL stokers. See Stokers, Mechanical

MECHANICS
Course of experimental mechanics. H. J: E. Bailey. 223p Chapman & Hall, ltd., London '24
Elements of mechanics. F. S. Carey and J. Proudman. 314p Longmans '25
Introduction to the principles of mechanics. J. F: S. Ross. 400p J. Cape, London '23
Lifting an elephant. il diag Power 60:110 Jl 15 '24
Mechanical strength in its relation to absolute size. H. E. Eisenmenger. Gen Elec R 27: 328-33 My '24
Physics for technical students: part one—mechanics and heat. W: B. Anderson. 2d ed., rev. and enl. 371p McGraw-Hill '25
Study of relative motion in connection with classical mechanics. H. Zanstra. Phys R 23:528-45 Ap '24
Synthesis of number, space-time and energy, and a physical basis for Planck's and Rydberg's constants. A. Reuterdahl. 54p Academy of nations press, Brooklyn, N.Y. '23
Technical mechanics, statics, kinematics, kinetics. E: R. Maurer and R. J. Roark. 5th ed. 364p Wiley '25

See also Bending moment; Deformations (mechanics); Dynamics; Elasticity; Engineering; Fluids; Force and energy; Friction; Gases; Hydraulics; Hydrodynamics; Least work; Levers; Liquids; Load (mechanics); Machinery; Mathematical physics; Mechanical movements; Moments of inertia; Physics; Power; Power transmission; Pressure; Pulleys; Rotation; Steam engines; Strains and stresses; Strength of materials; Structures, Theory of; Thermodynamics; Torsion; Vibration; Virial, Theorem of, Viscosity

Study and teaching

How the laboratory helps in teaching mechanics at Yale. T: K. A. Hendrick. Eng N 93:550 O 2 '24

Terminology

Symbols approved by the Society for the promotion of engineering education, June 28, 1918. Eng Educ 14:140-1 N '23

MECHANICS, Analytic
Analytical mechanics, E. H: Barton. 2d ed., rev. & enl. 593p [bibliog. p. 198] Longmans '24

MECHANICS (persons)
La formation des apprentis méchaniciens dans rapports avec l'organisation rationnelle du travail. J. Androuin. Soc Ing Civils Bul 76:1211-21 O '23
Is the skilled mechanic passing? M. E. Carr. Am Mach 62:389-90 Mr 5 '25
Making the skilled mechanic of tomorrow. F: A. Pope. il Ind Management 67:363-7 Je '24
Where is the all-round mechanic? A. L. DeLeeuw. Am Mach 61:851-2 N 27 '24; Discussion. E. M. Chase. 62:876 Je 4 '25

See also Automobile mechanics; Machinists

MECHANICS' liens
Appointment by Secretary Hoover of committee to draft a standard State mechanics' lien act. Comm & Fin Chr 121:792-3 Ag 15 '25; Sanitary & Heat Eng 104:123-4 Ag 21 '25
Effect of the taking of a trade acceptance upon right to a mechanic's lien on public work. Dom Eng 111:57-8+ Je 20 '25
How can I collect a bill for wages and materials after filing a mechanic's lien on the property? Dom Eng 105:633-4 D 29 '23
Importance of surety bonds to the building industry. G. Behymer. Econ W n s 30:95-6 Jl 18 '25
Lien claims in public work. K. G. Kurtemacker. Eng & Contr (R & S) 63:1239-40 Je 3 '25
Right of contractor to mechanic's lien for installation of new heating system in an old building, in Pennsylvania. Dom Eng 111:46+ My 30 '25
Right to mechanics' lien three years after work was done where owner was to test work and not to pay until satisfactory. Dom Eng 111:49+ My 30 '25
Sufficiency of plumber's notice of lien. Dom Eng 110:26 F 28 '25

MECHANISM, Interchangeable. See Interchangeable mechanism

MECONINE
New synthesis of the meconines. G: A. Edwards, W: H: Perkin, jr. and F. W. Stoyle. Chem Soc J 127:195-9 Ja '25
Nitration of *m*-meconine. J. N. Rây and R. Robinson. Chem Soc J 127:1618-23 Jl '25

MEDALS
Gold medal designs. il Foundry 52:399-400 My 15 '24; Same. Brass W 20:211-12 Je '24; Same cond. Iron Tr R 74:1300 My 15 '24; Abstract. Metal Ind 22:250-1 Je '24
Gold medals of the American society of mechanical engineers. il Power 60:1039 D 23 '24

MEDFORD, Massachusetts

Hospitals

Lawrence memorial hospital, Medford, Massachusetts. E: F. Stevens. il plans Arch Rec 55:493-7 My '24

MEDIANS
Use of medians for reducing observations relating to several quantities. F. Y. Edgeworth. Philos Mag 6th ser 46:1074-88 D '23

MEDICAL buildings
Medical arts building, Dallas. W. J. Knight. il diags plans Arch Forum 39:285-90 D '23; Same. Eng & Contr (Bldgs) 61:177-84 Ja 23 '24

MEDICAL buildings—*Continued*
Medical office building, Seattle, Washington; views and plans. Am Arch 128:pl 301-3 N 5 '25
Professional building, Hempstead, L. I., N.Y.; views and plans. Am Arch 126:117-20 Jl 30 '24
Small office building for a group of doctors, Los Angeles, Calif. il plans Am Arch 128: 291-2 S 23 '25

MEDICAL colleges
Statistics and standards of American medical colleges. J Eng Educ 15:239 D '24
See also Illinois. University—College of medicine

MEDICAL education
University of Chicago expands medical education. Nation's Health 7:561-2 Ag '25

MEDICAL examinations. See Insurance, Life—Medical examinations; Physical examinations

MEDICAL inspection of schools. See Schools—Medical inspection

MEDICAL instruments and apparatus
Radio aids the surgeon. J. Hollander. il Radio N 7:776+ D '25
See also Dental instruments and apparatus; Electrotherapeutics—Apparatus and appliances; Surgical instruments

MEDICAL libraries
How the medical libraries operate. E. Gilbert. Office Economist (Art metal construction co., Jamestown, N.Y.) 6:5+ N '24
Training for medical librarianship. J. F. Ballard. Lib J 50:535-6 Je 15 '25

MEDICAL research
Prison a field for pathological research. G: A. Allen. Nation's Health 7:34-5 Ja '25

MEDICAL service
Approach to social medicine. F. L. Dunham. 242p Williams & Wilkins co., Baltimore '25
Indian service doctor replaces the medicine man. W. S. Stevens. il Nation's Health 7: 383-6+ Je '25
Medical profession and health insurance in Great Britain. A. Cox. Int Labour R 11:632-58 My '25

MEDICAL service, Cooperative
Lodge doctor: how to utilize his services fully. J. A. Goldberg. Nation's Health 6: 679-80 O '24

MEDICAL service, Free
Collective medical service and group medicine in Belgium. R. Sand. Nation's Health 6:102-5 F '24

MEDICAL service, Industrial
American industry and the health of its workers. Econ W n s 29:531 Ap 11 '25
Co-operative industrial hospitalization. F: S. Macy. Elec Ry J 64:693-4 O 18 '24
Does industrial health work pay the employer? H. L. Williams. il Blast F & Steel Pl 12:546-7 D '24
Endicott-Johnson medical service. D. C. O'Neil. J Ind Hygiene 5:329-34 Ja '24; Same. Nation's Health 6:1-3+ Ja '24; Discussion. J Ind Hygiene 5:356-7 Ja '24
First aid room at the Monon railway shops. C. G. Irion. il Ry R 73:863-4 D 15 '23
Give medical service to 5,000 gas company employees. il Nation's Health 7:268-9 Ap '25
Good industrial health organization. il plan Nation's Health 6:623-5 S '24
Health service for small plants. il Nat Safety N 8:43-52 N '23
Health service—its place in industry. A. E. Shipley. Am Management R 13:5-7 Ag '24
Health service work in paper mills. L: H. Frechtling. Paper Tr J 79:36+ O 2 '24
Health survey of industrial plants in Philadelphia. Monthly Labor R 21:600-1 S '25
Hills brothers company health and welfare activities. Nation's Health 6:553-4 Ag '24
Hospital data Trumbull electric manufacturing company. il Nation's Health 6:270-1 Ap '24
How a medical department may contribute to safety in the chemical industry. B: J. Slater. Safety Eng 48:216-20 N '24; Same cond. Nat Safety N 10:21-2 D '24; Same. Chem Age 33:29-30 Ja '25
How do employees use the hospital facilities? M. R. Lott. Ind Management 67:58-62 Ja '24
How Western electric company cares for 38,000 employees. S. P. Moore. il Nation's Health 6:89-91 F '24
Human service in industry. O: P. Geier. Nat Safety N 10:43-4 O '24
Industrial health as a purchasable commodity. C. F. N. Schram. Safety Eng 49:195-203 My '25
Industrial health program of Canadian paper mill. F. L. McCarroll. il Nation's Health 7:172-5 Mr '25
Industrial health promotion in small plants. C. P. McCord. Monthly Labor R 20:1136-8 My '25
Industrial psychiatry. H: B. Elkind. bibliog J Ind Hygiene 6:251-8 O '24
Keeping them on the job and fit to work. R. W. Elliott. il Nat Safety N 8:35-6 O '23
Medical care of South African natives on the gold mines of the Witwatersrand. L: E. Hertslet. il J Ind Hygiene 6:291-305 N '24
Medical department of the Alabama power company. il Nation's Health 6:340-1 My '24
Medical service in small industries in Philadelphia. Monthly Labor R 20:155-6 Ja '25
Medical work in western plants of Paraffine companies. N. J. Rich. il Nation's Health 7:46-7 Ja '25
Medicine in the rubber industry. F: C. Hood. Rubber Age 17:372-4 S 10 '25
Milwaukee electric railway and light company. E. W. Miller. il Nation's Health 6:24-5+ Ja '24
Opportunities for industrial service in a general hospital. D. C. Parmenter. J Ind Hygiene 7:62-8 F '25
Opportunity for the industrial doctor in the gas field. F. W. Parsons. Gas Age 56:209-10+ Ag 15 '25
Organization of the medical department. J. J. Wymer. Elec Ry J 64:689-91 O 18 '24; Same. Aera 13:455-7 O '24
Pennsylvania railroad medical and surgical service. E. B. Hunt. il Nation's Health 6: 10-11+ Ja '24
Personality a great asset to the industrial physician; medical service of the American rolling mill company, Middletown, Ohio. H. S. Murat. il Nation's Health 6:162-4 Mr '24
Philadelphia establishes medical service in industry. E: K. Funkhouser. il Nation's Health 6:753-4 N '24
Preventive medicine in industry. F. L. Rector. Nation's Health 7:331-3+ My '25
Progress of health in industry. T: Oliver. Nat Safety N 8:19 N '23
Protecting life and property at the Endicott-Johnson plants. A. C. Carruthers. il Safety Eng 47:191-200 Ap '24
Qualified nurse in industry. W. Hardiman. Management & Adm 7:56 Ja '24
Railroad hospitals on ten roads. il Ry Age 79:102-3 Jl 11 '25
Relation of industrial medicine to the general practice. H. Myers. J Ind Hygiene 5:288-92 D '23
Relation of medicine to industry; proceedings of the Conference board of physicians in industry. 10th anniversary meeting, New York city, April 4, 1924. 88p National industrial conference bd., New York '24
Relation of plant medical and safety departments. G. H. McKinstry. Nat Safety N 9: 8 Ja '24
Relation of the industrial surgeon to the family physician. H. G. Giddings. J Ind Hygiene 5:319-24; Discussion. 349-56 Ja '24
Some random thoughts on the part of a plant physician. W. S. Ash. Nation's Health 6: 460-1+ Jl '24
Tennessee company standardizes certain surgical procedures. H. E. Conwell. Nation's Health 7:408-9 Je '25

MEDICAL service, Industrial—*Continued*
Two years of industrial ophthalmology at the Pullman car works. H. P. Davidson. J Ind Hygiene 7:247-53 Je '25
Why industry profits by health supervision. H. Cheney. il Nation's Health 6:94-6+ F '24
Why should the physician go out into the plant? C. F. N. Schram. J Ind Hygiene 5: 325-8; Discussion. 349-56 Ja '24

See also Dental service, Industrial; Eye—Examination; Harvard mercantile health work; Hygiene, Industrial; Mental hygiene, Industrial; Physical examinations; *also* American association of industrial physicians and surgeons

Bibliography

Readers' guide to management literature. E. V. McCollough. Ind Management 69:105-6 F '25

Cost

Report cost of industrial plants' health service. F. L. Rector. Nation's Health 7:665-6+ O '25

MEDICINE
Progress of medical science. M. Fishbein. il Sci Am 133:242-3, 310-11 O-N '25

See also Abrams electronic reactions; Anesthetics, Local; Antiseptics; Bacteriology; Chemistry, Medical and pharmaceutical; Chemotherapy; Diseases, Industrial; Electrotherapeutics; First aid in illness and injury; Hospitals; Hygiene, Industrial; Leprosy; Medical service, Industrial; Mental diseases; Pharmacy; Poisons, Industrial

MEDICINE, Preventive
Industrial physician and preventive medicine. J: Dodson. J Ind Hygiene 6:193-8; Discussion. 219-21 S '24

MEDICINE chests
Ship's standard medical chest. il Nation's Health 6:546-7 Ag '24

MEDIEVAL architecture. See Architecture, Medieval

MEDITERRANEAN sea
Beginning of international trade on the shores of the Mediterranean. L. O. Welcome. il Dun's Int R 44:49-52+ F '25

MEGGERS. See Ohmmeters

MELAN, Joseph, 1853-
Sketch. por Eng N 92:242 F 7 '24

MELBOURNE, Australia

Rapid transit

Melbourne system to be extended. Elec Ry J 62:837 N 10 '23

MELILITE
Composition of melilite. A. N. Winchell. Am J Sci 5th ser 8:375-84 N '24

MELINGRIFFITH machine
Manufacture of tin plates; a comparison of old and new tinning processes. E. L. Collis. il diags J Ind Hygiene 7:171-83 Ap '25

MELLON, Andrew William
Defense of Secretary Mellon. Comm & Fin Chr 118:1620-2 Ap 5 '24
Mr Mellon vs. the bankers. P. S. Krecker. Comm & Fin 13:2191-2 N 12 '24
Photograph of a painting by Oswald Birley. Am Bankers Assn J 18:207 O '25

MELTING points
Binary system sodium metasilicate-silica. G. W. Morey and N. L. Bowen. J Phys Chem 28:1167-79 N '24
Determination of the melting and transition points of potassium dichromate. P. L. Robinson, G: E: Stephenson and H: V. A. Briscoe. Chem Soc J 127:547-9 Mr '25
Fusing points of metals; temperatures by color. J. B. Rathbun. Pet Age 15:59 My 15 '25
Heat and change of state. Am Gas J 122:251-2, 269, 289-90, 311, 333, 395-6, 419, 465, 487, 507, 527-8 Mr 21-Ap 18, My 9-16, 30-Je 20 '25
Improved electrically-heated melting-point apparatus. F. A. Mason. il Soc Chem Ind J (Chem & Ind) 44:577 Je 5 '25
Inorganic constituents of coal; the melting point of coal ash. N. Simpkin and F. S. Sinnatt. diags Soc Chem Ind J 44:197-200 My 1 '25
Melting and freezing points of pure substances and of eutectic mixtures. E: W. Washburn. diag Ind & Eng Chem 16:275 Mr '24
Melting point of acetyl salicylic acid. M. E. Putnam. Ind & Eng Chem 16:778 Ag '24
Melting-point (*solidus*) curve for mixtures of potassium nitrate and sodium nitrate. W. M: Madgin and H: V. A. Briscoe. Chem Soc J 123:2914-16 N '23
New micromelting point apparatus. J. F. Clevenger. il diags Ind & Eng Chem 16:854-5 Ag '24
Properties of fusible alloys. N. F. Budgen. il Soc Chem Ind J 43:200-3 Jl 4 '24
Some new standard melting points at high temperatures. H. S. Roberts. diag Phys R 23:386-95 Mr '24
Temperature scale and the melting point of molybdenum. A. G. Worthing. Phys R 25: 846-57 Je '25

See also Softening

MELVILLE, George Wallace
Sketch. W. M. McFarland. por Mech Eng 47: 85-7 F '25

MEMBRANES
Equilibrium across a parchment membrane in the case of sodium chloride in presence of sodium caseinate. P. A. Sporing. Chem Soc J 125:2316-19 N '24
Permeability of membranes. W. D. Bancroft and C: Gurchot. J Phys Chem 28:1279-83 D '24
Theory of membrane equilibria. F. G. Donnan. bibliog Chem R 1:73-90 Ap '24

MEMORANDA
His jobs are never forgotten. il System 47:466-7 Ap '25

MEMORIALS
Ghosts, Gods and generals. F. P. Sullivan. Am Inst Arch J 13:156-7 My '25
National Baptist memorial, Washington, D.C. Arch & Bldg 57:53, pl 130-1 Je '25

See also Monuments; Stone Mountain monument; War memorials; *also* Lincoln, Abraham—Memorials; Roosevelt, Theodore—Memorials; Washington, George—Memorials

MEMPHIS, Tennessee
Comprehensive city plan. H. Bartholomew. 176p City plan commission, Memphis '24
Memphis—the city of opportunity. G. Garrison. il Comm & Fin 13:2063, 2066-7+ O 22 '24
River-and-rail freight terminal at Memphis, Tenn. G: W. Foster. il diags plan Eng N 93:696-8 O 30 '24

Rapid transit

Speeding up service in Memphis. il Elec Ry J 64:308 Ag 30 '24

Streets

Special assessments for public improvements in Memphis, Tenn. C. C. Pashby. Munic & Co Eng 67:182-3 O '24

Water supply

Early results from Memphis water purification plant. W. Donaldson. bibliog il Eng N 93:992-4 D 18 '24
Memphis' new waterworks. F. G. Cunningham. il diag plans Pub Works 54:371-4; 55: 13-14 D '23-Ja '24
New water supply system of Memphis, Tenn. F. G. Cunningham. il Eng & Contr (W W) 61:773-80 Ap 9 '24
Recent water developments at Memphis. J. R. McClintock. il plans Am Water Works Assn J 10:1056-71 N '23

MENDEL'S law
Genetics and wool production. A. F. Barker. il Textile Inst J 15:P524-35 O '24

MENHADEN oil
Heterogeneous catalysis; hydrogenation of menhaden oil. A. S. Richardson, C. A. Knuth and C. H. Milligan. Ind & Eng Chem 17:80-3 Ja '25
Menhaden oil supply cut 60 per cent, 1924. Chem & Met Eng 32:143 Ja 19 '25

MEN'S furnishing goods
Men's and boys' clothing and furnishings. F. J. Ringo. 160p (Merchandise manuals for retail salespeople.) Shaw '25
See also Clothing trade; Collars

MENSURATION
Circular, cylindrical, and spherical units of measurement. L. B. Tuckerman. Mech Eng 47:302-3 Ap '25
La mesure industrielle des dimensions et la vérification des formes. H: Stroh. diags Génie Civil 86:230-4 Mr 7 '25
Plea for circular, cylindrical, and spherical units of measurement. J. M. Spitzglass. Mech Eng 46:925 D '24
See also Area measurement; Coal measurement; Gages; Gaging; Measuring instruments; Metric system; Standards of length; Surveying; Tanks—Measurement; Weights and measures

MENTAL diseases
Industrial psychiatry. H: B. Elkind. bibliog J Ind Hygiene 6:251-8 O '24
Mental disorder in Illinois. C: F. Read. Nation's Health 7:101-2 F '25
Points in preventive psychiatry. E: A. Strecker. Nation's Health 7:387-90 Je '25
What the hospital can do for the mental convalescent. L. D. Hubbard. Nation's Health 6:844-5 D '24
See also Mental hygiene, Industrial; *also* Illinois school of psychiatric nursing

MENTAL hygiene
Making the school safe for a developing mind. T. B. Rice. Nation's Health 7:606-8 S '25
Mental hygiene with special reference to the migration of people. W. L. Treadway. U S Pub Health Serv Bul 148:1-190 [bibliog. p. 164-74] '25

MENTAL hygiene, Industrial
Mental hygiene in industry. H: B. Elkind. bibliog J Ind Hygiene 6:113-23 Jl '24
Mental hygiene in industry. T: T. Read. Nation's Health 7:19-20 Ja '25
Mental hygiene of industry. L: J. Pollock. Nation's Health 6:384-6 Je '24
Researches in metal hygiene in industry; personnel science and adminstration from the standpoint of a hygienist. H: B. Elkind. J Ind Hygiene 7:396-406 S '25
See also Malingering

MENTAL tests. See Ability tests

MENTHOL
Studies in the resolution of racemic acids by optically active alcohols; the resolution of *r*-tartaric and *r*-dimethoxysuccinic acids by *l*-menthol. H: Wren and K. H. Hughes. Chem Soc J 125:1739-43 S '24

MENTHYL phenylbromoacetates
Catalytic racemisation of the diastereoisomeric 1-menthyl phenylbromoacetates. A. McKenzie and I. A. Smith. Chem Soc J 125: 1582-93 Ag '24

MENUS
See Advertising mediums—Menus

MERCANTILE agencies
Sources of foreign credit information. A. S. Hillyer. U S Bur For & Dom Com Trade Information Bul 292:1-46 '24

MERCANTILE buildings
Buildings for commerce and industry. 92p Ballinger co., New York '24
Business that became a social institution; Sanborn's of Mexico City. il Am Exporter 95:11-13+ S '24
See also Department stores; Market buildings; Store buildings; Warehouses

MERCANTILE health work. See Harvard mercantile health work

MERCAPTAN (term)
Derivation of the word mercaptan. T. S. Patterson. Soc Chem Ind J (Chem & Ind) 43:196-8 F 22 '24

MERCAPTANS
Alkylation of mercaptans by means of sulfonic esters. H: Gilman and N. J. Beaber. Am Chem Soc J 47:1449-51 My '25

MERCAPTOMAGNESIUM halides
Some reactions of substituted mercaptomagnesium halides. H. Gilman and W. B. King. Am Chem Soc J 47:1136-43 Ap '25

MERCERIZING
Action of strong solutions of caustic soda on flax yarn and fabrics under conditions of mercerising. P. P. Viktoroff. Soc Dyers & Col J 41:143-5 Ap '25
Alkali cellulose. E. Knecht and J. H. Platt. Soc Dyers & Col J 41:53-5 F '25
Analogies between former and recent preliminary chemical treatments of cotton fabrics. G. Tagliani. Soc Dyers & Col J 39:340-2 N '23
Apparatus for impregnating fabrics with mercerising liquor. E. Farrell. diag Soc Dyers & Col J 39:364 D '23
Apparatus for washing out caustic soda residues in mercerized piece-goods. diag Color Tr J 16:86-7 Mr '25
Best material for mercerizing. diag Textile World 65:4087 Je 21 '24
Best yarn for mercerizing. C. F. Green. Textile Col 47:244 Ap '25
Bleaching of cotton piece goods. W: F. Deady. Am Dyestuff Rep 13:43-4+ Ja 28 '24
Caustic for mercerizing and its recovery. C: F. Goldthwait. il Am Dyestuff Rep 14:71-4 F 9 '25
Caustic soda as a mercerizing agent for linen. I. Ginsberg. Textile Col 47:629-32 O '25
Caustic supply and recovery in mercerizing. W. W. Chase. diag plan Textile World 66: 1117+ Ag 30 '24; Correction. 66:2535 N 1 '24
Comments of skein mercerizing. J: R. Watkins. Textile Col 46:582-7 S '24
Detection of mercerizing in cotton. C. F. Green. Textile Col 47:244-6 Ap '25
Dixie Mercerizing output now 250,000 lbs. weekly. D. G. Woolf. il Textile World 68: 1473 S 12 '25
Dyeing and mercerization. W. J. Wilson. Textile Col 47:510 Ag '25
Early mercerizing problems. W: D. Hartshorne. Textile World 65:854+ F 2 '24
Fiber balance. T: Barratt. diag Color Tr J 15: 177-8 D '24
Influence of the degree of twist in yarns on the results of yarn mercerisation, and on the properties of plain fabrics made from grey or mercerized cotton yarns. H. K. Corser and A. J. Turner. Textile Inst J 14:T332-60 O '23
Lustre of yarns and fabrics. A. Adderley and A. E. Oxley. bibliog diags 4 pls Textile Inst J 16:T167-84 Je '25
Lustre produced in cotton by mercerization; abstracts. T: Barratt. Color Tr J 15:179-80 D '24; J Fr Inst 199:772 Je '25
Mercerization—a textile romance. C: F. Goldthwait. il Am Dyestuff Rep 13:612-15, 643-6, 667-70 S 22-O 20 '24
Mercerization of cotton piece goods. W. W. Chase. Am Dyestuff Rep 14:21-3; Discussion. 23-5 Ja 12 '25
Mercerization of cotton piece-goods. M. N. Conklin. Chemicals (Dyestuffs sec) 16:163-5 My 25 '25
Mercerization of fabrics. Am Dyestuff Rep 13: 840-1 D 15 '24
Mercerization of yarn. C: F. Goldthwait. il Am Dyestuff Rep 13:775-80 D 1 '24
Mercerization with nitric acid. P. P. Budnikoff. Textile World 64:3835+ D 29 '23
Mercerisation with permanent finish. H. Cheetham. Soc Dyers & Col J 41:146-7 Ap '25
Mercerization with the aid of nitric acid. Am Dyestuff Rep 14:710-11 O 19 '25

MERCERIZING—*Continued*
Mercerizing cotton goods in the piece. W: F. Deady. Am Dyestuff Rep 13:663-6 O 20 '24
Mercerizing cotton with aid of calcium thiocyanate. E. A. Fourneaux. Color Tr J 14: 129-30 Ap '24
Mercerising, dyeing and finishing of ramie. W: Marshall. il (supp) Soc Dyers & Col J 40:10-13 Ja '24
Mercerizing machine. D. M. McLintock. diags Chemicals (Dyestuffs sec) 17:129+ N 9 '25
Mercerizing—modern research and its results. C: F. Goldthwait. Am Dyestuff Rep 13:705-8 N 3 '24
Mercerizing of piece goods. S. V. De Forest. Chemicals (Dyestuffs sec) 17:15-17 Jl 20 '25
Mercerizing tenters. il Textile Col 47:172 Mr '25
Moisture relations of cotton; the absorption of water by cotton mercerised without tension. A. R. Urquhart and A. M. Williams. bibliog Textile Inst J 16:T155-66 Je '25
Quarter century of mercerizing. C: H. Clark. Textile World 65:782-3 F 2 '24
Recovery of caustic soda in mercerizing cloth. diag Color Tr J 15:94 S '24
Review of the mercerizing industry in Europe. R. Sansone. Textile World 65:797-8 F 2 '24
Something on the dyeing of vat colors on mercerized cotton goods. R. Sansone. diags Textile Col 46:29-34 Ja '24
Swelling of raw cotton hairs during mercerisation without tension. M. A. Calvert and F: Summers. il Textile Inst J 16:T233-68 [bibliog. p. 268] Ag '25
Theory and science in mercerizing. C: F. Goldthwait. il Textile World 65:795-6+ F 2 '24

Standards

Need of better standardization in mercerizing. Color Tr J 14:184-5 Je '24

MERCHANDISING
Constructive merchandising. R. E. Ramsay. 718p Appleton '25
Cutting out waste in distribution. A. L. Filene. Nation's Business 13:35-7 N '25
How a buyer can answer: when? how much? what? E: A. Filene. System 44:754-7+ D '23
How the model stock plan fits every business. E: A. Filene. System 45:637-9+ My '24
Let's think about merchandizing in the clay industry. Brick & Clay Rec 67:615-34 O 27 '25
Merchandizing the lost hope. G. A. Nichols. Ptr Ink 130:113-16+ Ja 1 '25
Middleman in trade. E. Benn. Chem Age (Lond) 10:644 Je 21 '24
My reply to critics who say marketing will never be a science. F: A. Russell. Ptr Ink 131:105-6+ Ap 23 '25
Pay attention to the laggard department; a lesson from mail order. H. C. Clarke. Ptr Ink 126:194+ Ja 10 '24
Principles of merchandising. M. T: Copeland. 368p Shaw '24
Product that dealers neglect: "domes of silence" promoted through hook-up with other small wares. il Sales Management 6: 665+ Mr '24
Right way to cut expenses. H. G. Selfridge. il System 45:761-5+ Je '24
Scientific distribution. Ann Am Acad 115:1-264 S '24
Selling calendar—how it affects profits. E: A. Filene. il System 45:37-40+ Ja '24
Selling distribution and its new economics. H. W. Hess. Ann Am Acad 115:1-7 S '24
17 stockturns a year through the bargain appeal. E: A. Filene. il System 45:469-73+ Ap '24
This labyrinthian thing called distribution. M. Hastings, jr. Ptr Ink 130:81-2+ F 12 '25
Use of estimates in control of merchandising operations. A. C. Hodge. Univ J of Business 3:397-412 S '25
What a promise department does. il Am Exporter 95:41+ Ag '24
What's the underlying factor in advertising success? understanding of human nature. Ptr Ink 127:81-2+ My 15 '24
Wholesale and retail trade statistics. Published in monthly numbers of Federal reserve bulletin
Why Eaton's is one of the world's great establishments. R. P. Crawford. Forbes 15: 815-17+ Ap 1 '25
Why you can't do too much for customers. J. Rosenwald. il System 46:709-12+ D '24

See also Advertising; Bribery, Commercial; Brokers; Buying habits; Catalogs; Chain stores; Commission merchants; Consignment selling; Country stores; Delivery of goods; Department stores—Management; Electric apparatus and appliances—Merchandizing; Electric apparatus and appliances, Domestic—Merchandizing; Exhibits; Family of products; Five- and ten-cent stores; Guaranty of goods; Jobbers; Mail order business; Marketing; Notions (merchandize); Premiums (merchandizing); Price cutting; Price policies; Products, Obsolescent; Purchasing; Retail trade; Returned goods; Salesmanship; Samples; Seasonal industries; Simplification in industry; Special sales; Specialties (merchandizing); Traveling stores; Turnover; Warehousing

Bibliography

Merchandising. J: R. Whitaker. Ann Am Acad 115:248-50 S '24

MERCHANT marine
World's merchant fleets. Economist 101:96-7 Jl 18 '25; Same. Econ W n s 30:224-6 Ag 15 '25

See also Insurance, Marine; Seamen; Shipping; Ships—Manning

Government aid

Government aid to merchant shipping. G. M. Jones. U S Bur For & Dom Com 119:1-470 '25

Canada

Wooden ships and iron men. F: W: Wallace. 337p George Sully & co., New York

Germany

Germany's mercantile fleet. Engineer 139:308 Mr 13 '25
Wage increase in the German merchant marine. Monthly Labor R 20:1256-7 Je '25
Wages in the German merchant marine, February, 1924. Monthly Labor R 18:1278-9 Je '24

Netherlands

Wage agreements in merchant marine of the Netherlands. Monthly Labor R 20:1288-92 Je '25

Norway

Norway's merchant marine. A. H. Mathieson. il World's Markets 15:9-10 Mr '24; Same. Dun's Int R 43:55-6 My '24
Norway's merchant marine in relation to world shipping. F. A. M. Alfsen. Econ W n s 29:6-7 Ja 3 '25
Norwegian carrying trade. Comm M 6:11-14 My '24

United States

Adequate merchant marine essential for the nation. C: P. Plunkett. Marine Eng 28:732 D '23
American marine congress adopts resolutions outlining constructive policy for merchant marine. Marine Eng 28:729-31 D '23
American ships in foreign trade. T. V. O'Connor. Marine Eng 30:257-8 My '25
America's second line of defense. P. H. Middleton. Am Ind 24:13-17 Jl '24
Care of the laid-up fleet. J. Swan. il Marine Eng 29:654-6 N '24
Coastwise shipping thrives. B. K. Price. Marine R 55:281-3 Ag '25
Decided stand for merchant marine. L. W. Moffett. Iron Age 114:71-3 Jl 10 '24

MERCHANT marine—United States—*Continued*
Don't let shipbuilding decay. F. P. Palen. Marine R 55:245-6 Jl '25
Future of the merchant marine. H. Hoover. Am Mach 59:748h-i N 15 '23; Same. Marine Eng 28:723-4 D '23
Give private operation a trial; Export steamship corp. buys 18 government ships and operates them in the foreign trade. il map Marine R 55:417-19 N '25
Government can't compete on the seas. L. C. Palmer. il Nation's Business 13:26-8 O '25
Is shipping turning the corner? E: S. Plummer. il Am Bankers Assn J 16:489-90 F '24
Need of merchant marine. S. M. Vauclain. Iron Age 115:1771-2 Je 18 '25
Plans for a permanent American shipping policy under discussion. H. F. Lane. Marine Eng 30:317-18 Je '25
Private ownership is necessary; abstracts. L. C. Palmer. Nation's Business 13:12-13 Je 5 '25; Marine R 55:255-6 Jl '25
Report of Investment bankers association of America committee on marine securities. I B A of A 12:268-70 My 24 '24
Shipowners offer recommendations for building up an American merchant marine. Marine Eng 30:319-21 Je '25
Urgent need for a well-organized U.S. merchant marine. A. J. Brosseau. Automotive Ind 52:929-30 My 28 '25
What the United States government is doing with its merchant fleet. L. C. Palmer. il Dun's Int R 45:37-41 Ag '25

See also Merchant marine act, 1920; Ship subsidies; Shipbuilding—United States; Shipping—United States; United States—Emergency fleet corporation; United States—Shipping board

MERCHANT marine act, 1920
Application of the coastwise law to trade with the Philippine Islands. V. Villamin. Econ W n s 27:226-7 F 16 '24
Effective date of section 28 of the Merchant marine act postponed. Ry Age 76:1027-8 Ap 26 '24
Effects of section 28 of the Merchant marine act. Ry Age 76:836-8 Mr 29 '24
Railroads and the Merchant marine act. Ry Age 76:773-4 Mr 22 '24
Section 28, Index p 4-5 Ap '24
Section 28. A. H. Temple. Comm & Fin 13: 657 Ap 2 '24
Section 28 of Merchant marine act put into effect. H. F. Lane. Marine Eng 29:203-4 Ap '24
Section 28 wins in national vote. R. V. Sawhill. Marine R 54:161-7 My '24
Senate passes Diesel conversion amendment to shipping bill. H. F. Lane. Marine Eng 29:331 Je '24
Shipping board's rate problem. E: C. Plummer. Am Ind 24:15+ Ap '24
Should exempt coal from operation of sec. 28 of Merchant marine act. S. Daggett. Coal Age 27:19 Ja 1 '25
United States shipping board withdraws application to Inter-state commerce commission for preferential rates under section 28. Comm & Fin Chr 118:2262-3 My 10 '24

MERCHANT marine library association, American. See American merchant marine library association

MERCHANTS

See also Commission merchants; Merchandizing; *also* Wanamaker, John

MERCHANTS and miners transportation company
Completes 72 years of service. il map Marine R 54:313-18 Ag '24

MERCURIALS. See Mercury compounds

MERCURY
Absence of helium from the gases left after the passage of electrical discharges: between fine wires in a vacuum; through hydrogen; through mercury vapor. S. K. Allison and W: D. Harkins. diags Am Chem Soc J 46:814-24 Ap '24
Absorption and emission spectra of the Geissler discharge in mercury vapor and in mixtures of mercury and hydrogen. L: A. Turner and K. T. Compton. Phys R 25:606-12 My '25
Absorption of a line of the principal series of singly ionized atomic mercury. L. A. Turner and K. T. Compton. diag Phys R 25:613-17 My '25
Action of chlorine on mercury. A. F. O. Germann. J Phys Chem 28:1218-20 N '24
Adsorption from the gas phase at a liquid-gas interface. T: Iredale. diags Philos Mag 6th ser 48:177-93; 49:603-27 Jl '24, Mr '25
Adsorption of catalytically poisonous metals by platinum; the adsorption of lead and mercury. E: B. Maxted. Chem Soc J 127:73-7 Ja '25
Almaden mercury ores and their connection with igneous rocks. R. W. Van der Veen. il Econ Geol 19:146-56 Mr '24
Band spectrum of mercury and the dissociation of hydrogen molecules by excited mercury atoms. K. T. Compton and L: A. Turner. Philos Mag 6th ser 48:360-3 Ag '24
Diffusion of mercury and of iodine vapours through nitrogen. J. M. Mullaly and H. Jacques. diag Philos Mag 6th ser 48:1105-22 D '24
Dissociation of hydrogen and nitrogen by excited mercury atoms. O. S. Duffendack and K. T. Compton. Phys R 23:583-92 My '24
Distillation of quicksilver at the Patriquin mine, in California. Eng & Min J 120:56 Jl 11 '25
Division of the mercury atom; abstract. A. Miethe. J Fr Inst 198:626 N '24
Duration of fluorescence of mercury vapor. R. N. Ghosh. Phys R 26:376-9 S '25
Effect of an electric current on the motion of mercury globules in dilute sulphuric acid, and its bearing on the problem of the electrolytic double layer. J. E. P. Wagstaff. diags Philos Mag 6th ser 47:802-15 My '24
Electrical resistance of mercury in magnetic fields. T. J. Jones. diags Philos Mag 6th ser 50:46-60 Jl '25
Fine structure, absorption, and Zeeman effect of the 2536 mercury line. R. W. Wood. diags Philos Mag 6th ser 50:761-74, pl 24 O '25
Influence of mercury and other impurities on the rate of oxidation of white arsenic by nitric acid. C. M. Smith and G. E. Miller. Ind & Eng Chem 16:1168-71 N '24
Latest metallurgical practice in treating cinnabar ores. Eng & Min J 118:943 D 13 '24
Mactear-Franks mercury furnace. W. E. Franks. Eng & Min J 119:692-3 Ap 25 '25
Making gold from quicksilver. J. Rubinfeld. Eng & Min J 118:730 N 8 '24
Measurement of oxidation potentials at mercury electrodes; ter- and bivalent titanium. G: S. Forbes and L. P. Hall. diag Am Chem Soc J 46:385-90 F '24
Metallurgy of quicksilver. L. H. Duschak and C. N. Schuette. U S Bur Mines Bul 222: 1-173 [bibliog. p. 165-7] '25; Abstracts. J Fr Inst 200:544-7 O '25; Eng & Min J 120: 908 D 5 '25; Min Cong J 11:644 D '25
Metastable state in mercury vapor. H. W. Webb. diags Phys R 24:113-28 Ag '24
Method for the estimation of the average life of excited mercury atoms. L: A. Turner. Phys R 23:464-71 Ap '24
New Almaden, a century-old quicksilver camp. A. R. Boone. il Eng & Min J 116:1060-1 D 22 '23
On the mercury line 2270A ($1S-2p_1$). T. Takamine and M. Fukuda. il diag Phys R 25: 23-9 Ja '25
Optical excitation of the mercury spectrum, with controlled orbital transfers of electrons. R. W. Wood. diags Philos Mag 6th ser 50:774-96, pl 25 O '25
Persistence of the radiation excited in mercury vapor. L. J. Hayner. diags Phys R 26:364-75 S '25

MERCURY—*Continued*
Photochemical studies; the activation of a mercury surface by light; a possible relation between photoelectric effect and photochemical action. H. R. Moore and W. A. Noyes, jr. diag Am Chem Soc J 46:1367-76 Je '24
Photochemical studies: the reaction between nitrogen and hydrogen in the presence of mercury vapor, and the resonance radiation of mercury. W. A. Noyes, jr. Am Chem Soc J 47:1003-9 Ap '25
Potassium as a mercury-vapour trap. A. L. Hughes and F. E. Poindexter. diags Philos Mag 6th ser 50:423-39 Ag '25
Production of quicksilver in United States in 1923. Eng & Min J 118:261 Ag 16 '24; Iron Age 114:19 Jl 3 '24; Brass W 20:285 Ag '24
Quicksilver. H. W. Gould. Eng & Min J 119: 91-2 Ja 17 '25
Reactions of hydrogen activated by excited mercury atoms H. S. Taylor and A. L. Marshall. J Phys Chem 29:1140-7 S '25
Saturation pressures of mercury up to 2000 kg. per square cm.; abstract. F. Bernhardt. J Fr Inst 200:273 Ag '25
Some uses and properties of mercury. G. M. Dyson. Chem Age (Lond) 12:sup33-4 My 2 '25
Spectrum of mercury below the ionization potential. J: A. Eldridge. diags Phys R 23: 685-92 Je '24
Striated discharge in mercury vapour. W. H. McCurdy. diags Philos Mag 6th ser 48:898-917 N '24
Striking potential in the low-voltage mercury arc. M. Scott. diags Phys R 22:447-55 N '23
Studies of electric discharges in gases at low pressures. I. Langmuir and H. Mott-Smith, jr. Gen Elec R 27:762-71, 810-20 N-D '24
Studies of electrolytic polarisation; the cathodic overvoltage of mercury. S: Glasstone. Chem Soc J 125:2646-56 D '24
Tests fail to confirm transmutation to gold. il Sci Am 133:296-7 N '25
Theory and experiments relating to the striated glow discharge in mercury vapor. K. T. Compton, L: A. Turner and W. H. McCurdy. diags Phys R 24:597-615 D '24
Wave form of the current when an electric discharge is passed through mercury vapour. F. H. Newman. Philos Mag 6th ser 47:939-40, pl 7 My '24

See also Amalgamation; Amalgams

Analysis

Determination of traces of mercury: the sensitivity of the qualitative tests for mercury; a new method for the detection of mercury sensitive to one part in a billion. H. S. Booth and N. E. Schreiber. Am Chem Soc J 47:2625-9 N '25

MERCURY arc rectifiers. See Electric current rectifiers

MERCURY boilers. See Boilers, Mercury

MERCURY bromates
Use of bromate in volumetric analysis; the preparations and properties of normal and basic mercuric bromate. G. F: Smith. Am Chem Soc J 46:1577-82 Jl '24

MERCURY chlorides
Preparation of electrolytic mercurous chloride in saturated potassium chloride for use in the calomel electrode. W. W. Ewing. diag Am Chem Soc J 47:301-5 F '25
Reaction between phosphorous acid and mercuric chloride. A. D. Mitchell. Chem Soc J 125:1013-30 My '24

MERCURY compounds
Bactericidal action of some organic compounds of mercury. T. A. Henry. T. M. Sharp and H. C. Brown. Soc Chem Ind J (Chem & Ind) 44:532 My 22 '25
Behavior of mercuric salts of organic acids toward heat. M. S. Kharasch and F: W. Staveley. Am Chem Soc J 45:2961-72 D '23
Direct mercuration of benzene and the preparation of mercury diphenyl. J. L. Maynard. Am Chem Soc J 46:1510-12 Je '24
Factors affecting the stability of mercurials and the mercuration of substituted phenylammonium salts. M. S. Kharasch and L. Chalkley, jr. Am Chem Soc J 46:1211-23 My '24
Mechanism of the precipitation of metals by hydrogen sulfide; a study of certain sulfur complexes of mercury. G. M. Smith and S. L. Semon. Am Chem Soc J 46:1325-43 Je '24
Mercuration of aromatic substances; toluene. S: Coffey. Chem Soc J 127:1029-32 My '25
Mercuration of methylene blue. L. Chalkley, jr. Am Chem Soc J 47:2055-61 Jl '25
Mercuration of nitrohydroxybenzaldehydes. T: A. Henry and T: M. Sharp. Chem Soc J 125:1049-60 My '24
Mercury derivatives of azo dyes. A. Proskouriakoff and G: W. Raiziss. Am Chem Soc J 47:1974-9 Jl '25
Mercury derivatives of some imides. E: Lyons. Am Chem Soc J 47:830-3 Mr '25
New organic mercurials and their therapeutic applications. E. C. White. bibliog Ind & Eng Chem 16:1034-8 O '24
Preparation and decomposition of unsymmetrical mercuri-organic compounds; method of establishing the relative degree of negativity of organic radicals. M. S. Kharasch and M. W. Grafflin. Am Chem Soc J 47:1948-54 Jl '25
Synthesis of the anhydride of hydroxymercuri-ethoxy-chaulmoogric acid and ethyl acetoxymercuri-ethoxy-chaulmoograte. A. L. Dean, R. Wrenshall and G. Fujimoto. Am Chem Soc J 47:403-7 F '25

MERCURY cyanide
Reaction between mercuric cyanide and certain metals in liquid ammonia. F. W. Bergstrom. Am Chem Soc J 46:1559-68 Jl '24

MERCURY diphenyl
Direct mercuration of benzene and the preparation of mercury diphenyl. J. L. Maynard. Am Chem Soc J 46:1510-12 Je '24

MERCURY halides
Crystal structure of the mercurous halides. R. J. Havighurst. il diags Am J Sci 5th ser 10:15-28 Jl '25

MERCURY hydroxides
Certain reactions of the alkyl and aryl mercuric hydroxides. I. A. Koten and R. Adams. Am Chem Soc J 46:2764-9 D '24

MERCURY oxides
Organic derivatives of silicon; action of mercuric oxide on diaryldichlorosilicanes. L. R. Vyle and F: S. Kipping. Chem Soc J 125: 2616-22 D '24

MERCURY poisoning
Mercurial poisoning. J: A. Turner. 13p U.S. Public health service, Washington, D.C. '24; Abstract. Monthly Labor R 18:843-5 Ap '24; Excerpt. Chem & Met Eng 30:980 Je 23 '24
Mercurialism in quicksilver production in California. A. Hamilton. bibliog J Ind Hygiene 5:399-407 Mr '24
Mercury poisoning facts presented. J. A. Turner. Brass W 21:82 Mr '25
Mercury poisoning from electric furnaces. L: Jordan and W. P. Barrows. Ind & Eng Chem 16:898-901 S '24

MERCURY pumps. See Vacuum pumps

MERCURY sulfates
Effect of various preparations of mercurous sulfate on the electromotive force and hysteresis of Weston standard cells. W. C. Vosburgh and M. Eppley. Am Chem Soc J 46:104-11 Ja '24

MERCURY turbines
Binary cycles using mercury and steam. A. M. Greene, jr. diags Mech Eng 46:142-4 Mr '24
Emmet mercury boiler. il diags Elec R (Lond) 93:993-4 D 28 '23
Emmet mercury vapour plant. diags plans Engineer 137:65-8 Ja 18 '24
Emmet mercury-vapor process. W. L. R. Emmet. il diags Mech Eng 46:235-40+ My '24; Abstracts. Blast F & Steel Pl 12:343-4 Jl '24; Iron Tr R 75:161-3 Jl 17 '24

MERCURY turbines—*Continued*
How much work can be obtained from a pound of fuel? L. S. Marks. Power 60:536-9 S 30 '24
L'installation de force motrice à vapeur de mercure de Hartford (Connecticut, États-Unis). P. Calfas. il diags Génie Civil 84:12-15 Ja 5 '24
Mercury-vapor boiler and turbine. il diag Mech Eng 46:91-3 F '24
Mercury vapor boiler and turbine. diags Locomotive 35:70-5 Jl '24
Mercury-vapour prime mover; editorial. Engineer 136:561-2 N 23 '23
Mercury vapor turbine. J: W. Colton. il Aera 12:916-20 Ja '24
Possibilities of mercury as a working substance for binary fluid turbines. W: J. Kearton. diags Engineering 116:663-7, 696-7 N 23-30 '23; Abstracts. Engineer 136:560, 563-4 N 23 '23; Elec R (Lond) 93:796-7 N 23 '23; Discussion. Engineering 116:640-5; 117: 47-8 N 23 '23, Ja 11 '24; Engineer 136:564-5; 137:42 N 23 '23, Ja 11 '24
Power from mercury vapor. il Sci Am 130:80-1 F '24

MERCURY vapor lamps. See Electric lamps, Mercury vapor

MERCURY vapor rectifiers. See Electric current rectifiers

MERGENTHALER, Ottmar, 1854-
Ottmar Mergenthaler's birthplace. Inland Ptr 73:575 Jl '24

MERIDIAN
Meridian determination. C. E: Bardsley. charts Mo U Sch Mines & Met Bul 7:1-192 F '24
Ward method of meridian and latitude determination. H. R. Ward. Eng & Min J 119:797-8 My 16 '25; Same. Eng N 95:25 Jl 2 '25; Discussion. Eng & Min J 119:973 Je 13 '25; Eng N 95:606 O 8 '25

MERRILL, Charles W., 1870-
James Douglas medalist. T. A. Rickard. por Eng & Min J 117:196 F 2 '24

MERRILLITE
Merrillite and chlorapatite from stony meteorites. E. V. Shannon and E. S. Larsen. Am J Sci 5th ser 9:250-60 Mr '25

MERRIMACK river
Merrimack river storage improvements. A. T. Safford. map Textile World 67:1267+ F 14 '25

MERRIMAN, Mansfield, 1848-1925
Pioneer educator. por Eng N 94:993+ Je 11 '25

MERYCOCHŒRUS
Generic distinctions between merycochœrus Leidy and promerycochœrus Douglass. M. R. Thorpe. Am J Sci 5th ser 7:121-31 F '24

MESABI iron range. See Iron mines and mining—Minnesota; Iron ores—Minnesota

MESOPOTAMIA. See Iraq

MESOTHORIUM
Period of mesothorium. W. P. Widdowson and A. S. Russell. Philos Mag 6th ser 49:137-40 Ja '25

MESOXALIC acid
Tautomerism of the mesoxalic acid and pyruvic acid phenylhydrazones; evidence for the hydrazone structure of the tautomerides. H. R. Stevens and F. W. Ward. Chem Soc J 125:1324-9 Je '24

MESTROVIC, Ivan, 1883-
Ivan Mestrovic, sculptor-architect; Racic mortuary chapel near Ragusa. K. Parkes. il Arch Rec 57:173-85 F '25
Mestrovic in relation to American sculpture. L. V. Solon. Arch Rec 57:382-3 Ap '25

METABOLISM
Basal metabolism before and after exposure to high temperatures and various humidities. W. J. McConnell, C. P. Yagloglou and W. B. Fulton. Am Soc Heat & V E J 31: 23-33 Ja '25; Abstract. Dom Eng 110:21-2 F 21 '25

METAL cleaning
Blackboard talk on alkaline cleaners. A. P. Munning. Brass W 21:362-5 O '25
Cleaners. A. P. Munning. Metal Ind 23:195 My '25
Cleaning machine for strip steel brought out by the Broden construction co. il Iron Age 115:472 F 12 '25
Cleaning metal for japanning. H. L. Gray. il plans Brass W 21:214-15 Je '25
Cleaning metals today. R. W. Mitchell. Metal Ind 23:151-3 Ap '25
Colt Autosan metal parts washing machine. il Automotive Ind 51:540 S 4 '24
Economical process for cleaning buffed nickel plated articles in quantities. W. L. Hults. Brass W 21:283 Ag '25
Eliminate guesswork in metal cleaning. Ry Mech Eng 99:118-19 F '25
Higher quality products due in part to better cleaning methods. il Automotive Ind 53: 503-5 S 24 '25
How is the buyer to know? how to judge the value, efficiency and economy of metal cleaners. T. S. Blair. Metal Ind 23:112 Mr '25
Judging cleaners. E: Magnuson. Metal Ind 23:196 My '25
Metal cleansing with alkaline cleaning solutions. E. M. Baker and R: Schneidewind. il diags Am Electrochem Soc Trans v 45 (preprint 15):203-29 Ap '24; Same. Brass W 20:208-10, 245-50 Je-Jl '24; Abstract. Metal Ind 22:184-6 My '24
Modern methods of cleaning metals. il Metal Ind 22:402-4 O '24
Preparation of iron and steel surfaces for paint. il Ry R 75:166-73 Ag 2 '24
Prepared metal cleaners. T. S. Blair. diags Metal Ind 22:488-9 D '24
Report of sub-committee XIV on preparation of iron and steel surfaces for painting. il Am Soc T M Pro 24 pt 1:466-76 '24
Sand blasting cuts cost of cleaning many kinds of automotive parts. P. M. Heldt. il diags Automotive Ind 52:142-6 Ja 22 '25
We found these better ways to clean. R. R. Hacker and others. il Factory 35:61-4+ Jl '25

See also Rolls (rolling mills)—Cleaning; Sand blast; Sandpaper; Steel castings—Cleaning

METAL cleaning, Electrolytic
Cleaning cans with electricity. il Chem & Met Eng 32:283-4 F 16 '25
Removal of rust by electrolytic processes. J. P. McLare. diags Engineering 117:25-9 Ja 4 '24

METAL coating
Mass coating of small articles by Schoop process. il Iron Age 113:1360 My 8 '24
Metal spray coatings for hot oxidation resistance. C. Commentz. Chem & Met Eng 31:733 N 10 '24
Metal spraying and sprayed metal; abstracts. T. H: Turner and W. E. Ballard. Am Mach 61:755-6 N 6 '24; Brass W 20:400 N '24
Metal spraying progress. Mach 31:681 My '25
Most economical method of lead coating small articles. Mach 30:890-1 Jl '24
Protective coatings for aluminum. C. Commentz. diag Chem & Met Eng 31:698 N 3 '24
Retinning cheese making equipment by spraying. A. Eyles. il diag Sheet Metal Worker 16:552-3 Ag 28 '25
Rust resistance of nickel-plated steel. E. M. Baker. il diags plan Soc Auto Eng J 14:127-33 F '24
Surface treatment of metals with aluminium. J. F. Kayser. il Engineer 139:sup34-7 Mr 27 '25
Use of metal spraying is extended. il Power Pl Eng 28:1077 O 15 '24
Vaporized metal sprayed on surfaces by hot blast. Concrete 23:244 D '23

See also Calorizing; Electroplating; Enamel and enameling; Galvanizing; Paint, Protective; Pipe coating; Plating; Zinc plating

METAL coloring
Chemical coloring of metals and allied processes. S: Field and S: R. Bonney. 264p Chapman & Hall, ltd., London '25

See also Bronzing

METAL corrosion. See Corrosion and anti-corrosives

METAL cutting
Band saw expedites metal cutting. O. R. Hott. il Elec Ry J 65:107-8 Ja 17 '25
British research committee reports on steels for cutting tools. A. C. Blackall. Blast F & Steel Pl 13:289+ Jl '25
Combination type of metal-cutting machine. S. A. Asquith. il Mach 30:844-6 Jl '24
Cutting brass tubing. G: Edgar. il Am Mach 59:923 D 20 '23
Le dégrossissage des pièces de forge sur le tour. N. Sawine. Génie Civil 84:110-12 F 2 '24
Device for cutting out holes in dust guards. il Ry Mech Eng 99:289 My '25
L'état actuel de la soudure autogène et du découpage des métaux. M. R. Thomas. diags Soc Ing Civils Bul 77:182-203, pl 65 Ja '24
Experiments with lathe tools on fine cuts, and some physical properties of the tool steels and metal operated upon. D. Smith and A. Leigh. diags Engineering 119:364-6 Mr 20 '25; Abstract. Engineer 139:319-20 Mr 20 '25; Discussion. Engineering 119:357-8 Mr 20 '25; Engineer 139:320 Mr 20 '25
Foreign progress in cutting metals. C. A. Beckett. il diags Mech Eng 46:618-24 O '24
Fretter tube cutting machine. il Am Mach 61:788 N 13 '24
Gang slitters in the cutting-up shop. F. R. Daniels. il diags Mach 31:460-2 F '25
Godfrey oxygen jet cutting machine. il diags Engineering 118:123, 124-5 Jl 25 '24
High-speed cutting of brass and other soft metals in standard machine tools. L. D. Burlingame. il diags Mech Eng 47:705-12 S '25; Abstracts. Mach 32:17-18 S '25; Am Mach 63:438-9 S 10 '25; Discussion. J: L. Christie. Mech Eng 47:1110 D '25; Same. Metal Ind 23:498 D '25
How to estimate machine shop costs. A. A. Dowd. diags Am Mach 61:55-7 Jl 10 '24
Investigations in turning and planing. H. Klopstock. il diags Mech Eng 47:474-9 Je '25; Abstract. Am Mach 62:881-3 Je 4 '25
Lubricating and cooling the cutting tool. A. F. Brewer. il diags Ind Management 69:197-205 Ap '25
Maschinen- und handarbeit. diags Zeit Ver Deutsch Ing 69:275-9, 382-4 F 28, Mr 21 '25
New development in cutting metal; Chesterfield cutting metal. il Ry Mech Eng 97:845 D '23
Oxytome metal-cutting machine. il Engineering 117:402, 411-12 Mr 28 '24
Philosophy of cutting. Engineer 139:163 F 6 '25
Present status and future problems of the art of cutting metals. J: Airey. Mech Eng 46:160-1 Mr '24; Same. Mach 30:625 Ap '24
Rapidor metal sawing blade is great improvement. il Brass W 19:407-9 D '23
Report on an experimental study of the forces exerted on the surface of a cutting tool. T. E. Stanton and J. H. Hyde. diags Engineering 119:148-50 Ja 30 '25; Abstract. Engineer 139:126 Ja 30 '25; Discussion. Engineering 119:124-5, 192-3 Ja 30, F 13 '25; Engineer 139:127-8 Ja 30 '25
Report on brass cutting tools. Metal Ind 23: 234-5 Je '25
Report on flow and rupture of metals during cutting. W. Rosenhain and A. C. Sturney. il diags Engineering 119:151-2, 178-9 Ja 30-F 6 '25; Abstracts. Engineer 139:126-7 Ja 30 '25; Iron Age 115:669 F 26 '25; Mech Eng 47: 751-2 S '25; Discussion. Engineering 119:124-5, 192-3 Ja 30, F 13 '25; Engineer 139:127-8 Ja 30 '25
Report on the action of cutting tools. E. G. Coker. diags Engineering 119:363-4, 403 Mr 20-27 '25; Abstracts. Engineer 139:318-19 Mr 20 '25; Mech Eng 47:504-5 Je '25; Discussion. Engineering 119:357-8 Mr 20 '25; Engineer 139:320 Mr 20 '25
Report on the present status and future problems of the art of cutting and forming metals. Mech Eng 46:20-30+ Ja '24; Excerpt. Am Mach 59:841-4 D 6 '23
Research in cutting metals. J. A. Hall. Mech Eng 46:640 O '24
Rôle de certains facteurs dans le travail des métaux par outils coupants à la Fabrique nationale d'armes d'Herstal. H. Pommerenke. Soc Ing Civils Bul 76:1129-31 O '23
Significance of tool temperatures as a function of the cutting resistance of metals. H. A. Schwartz and W. W. Flagle. il Am Soc T M Pro 23 pt 2:27-39 '23
Thermo-electric measurement of cutting tool temperature. H: Shore. J Fr Inst 200:274-5 Ag '25
Über schnittgeschwindigkeit und schnittdruck beim fräsen. G. Engel. diags Zeit Ver Deutsch Ing 69:819-22 Je 13 '25
Die untersuchung der dreharbeit. H. Klopstock. il diags Zeit Ver Deutsch Ing 69:215-21, 311-14 F 21, Mr 7 '25
Welding and cutting in freight yard repairs. H. W. L. Porth. il Ry Mech Eng 98:88-90 F '24
Why do we know so little about metal cutting? Am Mach 63:476 S 17 '25
Wissenschaftliche gestaltung der werkzeuge. W. Hippler. diags Zeit Ver Deutsch Ing 69: 227-33 F 21 '25

See also Cutting machines; Cutting-off tools; Electric cutting; Gas torch; Gear cutting; Lubrication and lubricants (cutting and grinding); Milling; Milling cutters; Oxy-acetylene cutting; Oxyhydrogen cutting; Pipe cutting; Saws; Screw machines; Shears (machines); Steel cutting; Thread cutting; Thread cutting machines; Tool steel

Tables, calculations, etc.

Cutting speeds for turning wheels and tires. diag Am Mach 59:809 N 29 '23
Screw machine production calculator. Am Mach 61:26, 353, 1009 Jl 3, Ag 28, D 25 '24

METAL cutting, Subaqueous
Chalumeau, système Royer, pour le découpage des tôles dans l'eau. diag Génie Civil 86: 267 Mr 14 '25
Cutting sheet piling under water. il Eng & Contr (G C) 64:451 Ag 19 '25
Under-water cutting of metals with oxy-electric torch proves successful in new applications. il Marine Eng 30:333-4 Je '25

METAL exchange, London
London metal exchange. Brass W 20:266 Ag '24
London metal exchange. S. Sussman. Eng & Min J 118:331-2 Ag 30 '24

METAL finishing
Abrasive device replaces file. il Iron Tr R 77:628-9 S 10 '25
Seven ways to a better finish. F. Arnold. il Factory 35:310+ Ag '25

See also Brass finishing; Bronzing; Duco finish; Polishing; Sanding machines

METAL lath
Details of Swetland type of partition. diags Eng & Contr (Bldgs) 63:218-19 Ja 28 '25
Large uses of steel in small ways; metal lath. il Iron Tr R 77:820 O 1 '25
Metal lath as a protection from fire. W. Clay. Eng & Contr (Bldgs) 61:185-7 Ja 23 '24
Metal lath in the construction of industrial buildings. E. M. Lurie. il diags Safety Eng 47:124-33 Mr '24

Advertising

Roundabout advertising that follows a straight line. W. Clay. Ptr Ink 130:149-50+ Mr 26 '25

Specifications

Metal lath; simplified practice recommendation number 3. Am Inst Arch J 12:378 Ag '24

METAL protection
Asbestos protected metal; its development, manufacture and uses. J. H. Young. il Am Inst Chem Eng Trans v 14:381-90 '21-'22
Corrosion of some cast aluminium alloys and a method of protection. A. C. Zimmerman. il Ind & Eng Chem 17:359-62 Ap '25
Metallschutz. E. Maass. Zeit Ver Deutsch Ing 68:880-3 Ag 23 '24
New oil for protecting gas holders. R. Mezger. Am Gas J 122:74, 81-3 Ja 24 '25
Tests of some rust-preventing materials suitable for the protection of stored machinery. C. Jakeman. il diags Engineering 120:123-5 Jl 31 '25; Correction. 120:260 Ag 28 '25
Verchromung; abstracts. Elektrotech Zeit 45: 341 Ap 10 '24; Elec W 83:1143 My 31 '24

See also Bridges, Iron and steel—Protection; Calorizing; Chromium plating; Corrosion and anti-corrosives; Galvanizing; Metal coating; Paint, Protective; Pipe coating; Pipe oiling; Steel—Protection; Zinc plating

METAL spinning
Metal spinning. E: Heller. il diags Sheet Metal Worker 15:957-9+, 1001-3; 16:9-11+, 157-9, 272-3+, 343-4, 476-7+ Ja 2-16, F 13, Ap 10, My 22, Je 19, Jl 31 '25
Spinning rivets on controller fingers. il Elec Ry J 64:928 N 29 '24

METAL spraying. See Metal coating

METAL-to-glass joint. See Glass—Joining to metal

METAL trade
Marketing and the mining industries. G: J. Young. Eng & Min J 118:971-5 D 20 '24
Metal trades and the radio industry. R. F. Yates. diags Metal Ind 22:53-4 F '24
Nonferrous metal markets, 1923. Brass W 20: 27-30 Ja '24
Non-ferrous metals. Nat City Bank p 81-2 My '25
Secondary metals in 1924. Metal Ind 23:391 S '25
Service big factor in jobbing. J: D. Knox. il Iron Tr R 77:433-5 Ag 20 '25
Strong year in metal market. Iron Tr R 74: 98 Ja 3 '24
World politics ruled metals. Iron Tr R 76:90 Ja 1 '25

See also Copper industry and trade; Hardware; Iron industry and trade; Lead industry and trade; Metal workers; Metals—Prices; Mineral industries; Scrap metal; Sheet metal trade; Steel industry and trade; Tin plate; Zinc industry and trade; *also* Metal exchange, London

Statistics

Consumption of non-ferrous metals in this country. Elec W 86:240 Ag 1 '25
Foreign trade in non-ferrous metals and minerals; 1922 and 1923 compared. F. E. Wormser. Eng & Min J 117:131 Ja 19 '24
Foreign trade in the metals and minerals in 1924. F. E. Wormser. Eng & Min J 119:135 Ja 17 '25
Metal products foremost in export gains in 1923. Iron Age 113:1429-30 My 15 '24
Metals, tin plate and sheets for twenty-one years, 1904-1924. Iron Age 115:78 Ja 1 '25
Pig iron and metal products of the United States; calendar years 1915-1923. Metal Ind 23:51 Ja '25
Trend of business movements; metals. Published in monthly numbers of Survey of current business
United States leads in consumption of non-ferrous metals. Am Mach 62:944b Je 11 '25

See also Metals—Prices

France

Metallurgical industry in France presents interesting study. Am Mach 60:416h-i Mr 13 '24
Trade organizations in French metallurgy. C. L. Jones. U S Bur For & Dom Com Trade Information Bul 186:1-10 '24

Germany

German metal demand poor except for aluminum. Eng & Min J 120:11 Jl 4 '25

Italy

Italy's foreign trade in iron, steel and non-ferrous metals in 1923. A. A. Osborne. U S Bur For & Dom Com Trade Information Bul 237:1-6 '24

New York (city)

Metal industry in New York and its environs. V. W. Lanfear. 49p Regional plan of New York and its environs, New York '24; Review. Mach 30:854 Jl '24

United States

Marketing of metals and minerals. J. E: Spurr and F. E. Wormser, eds. 674p McGraw-Hill '25

See also Tariff—United States—Metal schedule

METAL waste
Crushing metal turnings to shoveling size. il Ry R 75:926-7 D 6 '24
Machine turnings crusher. il Management & Adm 8:93-4 Jl '24
Methods for the recovery of platinum, iridium, palladium, gold, and silver from jewelers' waste. C. W. Davis. U S Bur Mines Tech Pa 342:1-14 '24

See also Iron borings; Scrap metal; Steel waste; Tailings

METAL work
Drawing small tubes of precious metals. J. Williams. il Am Mach 61:307-8 Ag 21 '24
Japanese metal working. Roberts-Austen. Brass W 20:7 Ja '24
Pressed-metal engineering. D. P. Cook. il Mech Eng 46:123-8 Mr '24; Abstract. Iron Age 112:1579-80+ D 13 '23; Discussion. Mech Eng 46:128 Mr '24

See also Brass founding; Brass work; Bronze; Bushings; Dies; Electroplating; Engraving; Flanges; Forging; Foundries; Foundry practice; Hardening; Heat treatment; Jewelry; Machine tools; Metal spinning; Pickling (metals); Plating; Polishing; Punching machinery; Rolling (metal work); Sheet metal work; Shells (metal work); Solder and soldering; Stamping; Straightening; Swaging; Tin plate; Turning; Welding; Wire

METAL work, Architectural
Specifications. Am Arch 127:153-4+ F 11 '25

See also Ironwork, Architectural; Sheet metal work, Architectural

METAL work, Artistic
Art metal work. G. A. Banner. il Brass W 21: 187-90, 257-60 Je, Ag '25
Baynes color process of etching. J: R. Baynes. il Metal Ind 23:248-9 Je '25
Decoration of brassware by etching, oxidizing, bronzing and enameling—new and better methods. G: A. Banner. il Brass W 20: 407-12 D '24
Electroplating and the decoration of metal. G: A. Banner. il Brass W 21:333-5 O '25

See also Ironwork, Artistic; Silversmithing

METAL workers
Die arbeiterbewegung unter besonderer berücksichtigung der verbände im bergbau sowie in der eisen- und metallindustrie Europas und Amerikas im jahre 1924. H. Göhring. Stahl & Eisen 45:820-2 My 21 '25
Effects of dust inhalation upon metal grinders. Monthly Labor R 19:1154-6 N '24
German metal workers' federation. F. Kummer. Monthly Labor R 18:740-50 Ap '24
Metal polishers and stove mounters, Indianapolis, labor agreement. Monthly Labor R 21:105-7 Jl '25
Metal work of Armenian boys. M. S. C. Smith. il Metal Ind 23:147 Ap '25
Report on the grinding of metals and cleaning of castings with special reference to the effects of dust inhalation upon the workers. 100p Gt. Brit. Factory inspectors' office, London '23

METAL workers—*Continued*
Wages in the metal industry in Finland, 1913 and 1920 to 1923. Monthly Labor R 19:389-95 Ag '24
Wages in the metal trade not reduced Conference board finds. Am Mach 62:42a Ja 1 '25
Wages of miners and metal workers in France, 1920 to 1924. Monthly Labor R 19:395-7 Ag '24

See also Foundries—Employees; Machine shops—Employees; Machinists

METAL working machinery
Maschinen für die metallbearbeitung in England. Weil. il Zeit Ver Deutsch Ing 69:29-34, 62-4 Ja 10-17 '25

See also Folding machines; Foundry machinery; Heading machines; Machine tools; Scraping machines (metal work); Sharpening; Sheet metal working machinery; Stamping; Straightening machines; Upsetting machines; Wire drawing machines

Statistics

Exports of metal-working machinery. Am Mach 62:992 Je 25 '25

METAL working plants
Mechanical engineering of management in the metal-working trades. R. T. Kent. Mech Eng 46:272-3+ My '24; Same cond. Am Mach 59:839-40 D 6 '23
New York metal group. map Iron Tr R 74: 1238-40 My 8 '24
Reduction saving $48,000 in materials handling costs. F. C. Eibell. il Ind Management 69: 312-15 My '25
Where to look for net profits. F. A. Scott. il Am Mach 62:869-72 Je 4 '25

See also Foundries; Iron works; Rolling mills; Steel works

Accidents

Accident experience of metals and woodworking sections of National safety council. Monthly Labor R 21:398-400 Ag '25
Lower frequency and severity rates in metals section. Nat Safety N 11:39-41 Je '25
Metals section accident statistics, 1923. Nat Safety N 9:50-1 Je '24
Trend of accidents in metal working industries, 1922-1923. Nat Safety N 10:37 S '24

METALLIC filaments. See Wire

METALLIC solutions. See Solutions, Metallic

METALLIUM
Use of lead substitutes in pipe line construction. L. A. Geupel. Munic & Co Eng 66:243-6 My '24

METALLOGRAPHY
Application of X-ray crystal analysis to metallurgy. E. C. Bain. il Ind & Eng Chem 16: 692-8 Jl '24
Conical illumination in metallography. H. S. George. il diags Iron Age 113:426-30 F 7 '24; Same. Brass W 20:197-201 Je '24
Effect of free surfaces on the plastic deformation of certain metals. F. C. Thompson and W. E. W. Millington. bibliog diag Iron & Steel Inst J 110:61-74, pl 4; Discussion. 75-84 no 2 '24
Der einfluss der korngrösse auf die verlustziffern von dynamo- und transformatorenblechen. K. Daeves. il Stahl & Eisen 44: 1283-6 O 16 '24
Grain growth in lead containing one per cent. of antimony. R. S. Dean and W. E. Hudson. il Am Chem Soc J 46:1778-86 Ag '24
High magnifications. Engineer 139:sup65-6 My 29 '25
High power magnification in metallography. R. G. Guthrie. Iron Age 113:1567+ My 29 '24
Inner structure of alloys; abstracts. W. Rosenhain. Engineering 119:233-4, 265-6, 311-12 F 20-27, Mr 13 '25; Chem Age (Lond) 12: 178 F 21 '25; Engineer 139:293 Mr 13 '25
Kristallgitter und härtung. P. Ludwik. bibliog Zeit Ver Deutsch Ing 69:349-51 Mr 14 '25
Leitz micro-metallography—model 1924. il Am Mach 62:178-9 Ja 22 '25
Mechanism of replacement and recrystallization. E. E. Fairbanks. bibliog Econ Geol 20:470-84 Ag '25
Metallography at Lehigh university. H. B. Pulsifer. il Blast F & Steel Pl 12:334-6 Jl '24
Metallography for engineers. W. Rosenhain. il diags Engineer 139:sup40-2, sup50-3, sup 70-2, sup85-8; 140:sup102-5, sup121-4, sup 136-9, sup155-7, sup168-71 Mr 27-N 27 '25
Metallography of non-ferrous metals. J. K. Wood. Am Mach 62:433-6 Mr 12 '25
Microscopes for metallographic work. il Engineering 118:514-15 O 10 '24
Microscopic analysis of metals. F. Osmond. 2d ed., rev. 313p Lippincott '24
New method of preparing specimens of metals. H. B. Pulsifer. il Chem & Met Eng 29:838-9 N 5 '23; Excerpt. Brass W 20:17 Ja '24
New X-ray studies of the ultimate structures of commercial metals. G. L. Clark, E. W. Brugmann and S. D. Heath. il Ind & Eng Chem 17:1142-6 N '25
Non-ferrous metals and metallography discussed at the American society for testing materials 28th annual meeting. Iron Age 116:29 Jl 2 '25
Note cast columnar structure. R. J. Anderson. il diags Foundry 53:20-4 Ja 1 '25
Physical metallography. E. Heyn. 440p [bibliog. p. xiii-xxx] Wiley '25
Practical importance of the equilibrium diagram. D. Hanson. il Engineer 139:sup18-22 F 27 '25
Practical microscopical metallography. R: H. Greaves and H. Wrighton. 135p Van Nostrand '24
Précis de métallographie microscopique et de macrographie. L. Guillet and A. Portevin. 2d ed. 337p Dunod, Paris '24
Preparation of metallographic specimens. J: D. Gat. il Blast F & Steel Pl 12:536-41 D '24
Preparing microphotographs of metals; data sheets. Foundry 53:730a, 786a, 838a, 880a S 15-N 1 '25
Present position of the amorphous theory. W. Rosenhain. Engineer 139:sup2-4 Ja 30 '25
Report on flow and rupture of metals during cutting. W. Rosenhain and A. C. Sturney. il diags Engineering 119:151-2, 178-9 Ja 30-F 6 '25; Abstract. Engineer 139:126-7 Ja 30 '25; Discussion. Engineering 119:124-5, 192-3 Ja 30, F 13 '25; Engineer 139:127-8 Ja 30 '25
Some relations between the microstructure of metal surfaces and electrodeposits made thereon. A. K. Graham. il Am Electrochem Soc Trans v 44 (preprint 10):101-14 S '23; Same. Brass W 20:3-7 Ja '24
Structural metallography. H. B. Pulsifer. 210p Chemical pub. co. '24
Technique of examining metals under the microscope. G. Pirk. il Gen Elec R 28:573-9, 800-8 Ag, N '25 (to be cont)
Text book of metallography. G. H. J. A. Tammann. 388p Chemical catalog co. '25
Trend in physical metallurgy. C. H. Mathewson. J Fr Inst 199:37-50 Ja '25
Use of microstructure in specifications. Engineer 139:sup27-8 F 27 '25
X-ray analysis of copper-zinc, silver-zinc, and gold-zinc alloys. A. Westgren and G. Phragmén. Philos Mag 6th ser 50:311-41, pl 6-11 Jl '25
X-ray evidence versus the amorphous-metal hypothesis. R. J. Anderson and J. T. Norton. Metal Ind 23:97-8 Mr '25
Der zusammenhang zwischen kerbzähigkeit und gleitebenenbildung. F: Körber. il Stahl & Eisen 45:1146-9 Jl 9 '25

See also Alloys; Iron—Metallography; Steel—Metallography

Bibliography

X-rays and metals. O. E. Harder. Gen Elec R 27:456-8 Jl '24

METALLURGICAL analysis
Analysis of plating solutions. J. F. Donnelly. Brass W 20:213-14 Je '24

METALLURGICAL analysis—*Continued*
Analytical methods for certain metals including cerium, thorium, molybdenum, tungsten, radium, uranium, vanadium, titanium, and zirconium. R. B. Moore and others. U S Bur Mines Bul 212:1-325 '23
Analyzing ores for vanadium. Eng & Min J 120:702 O 31 '25
Assay of zinc ores; use of powdered magnesium for removing copper and lead. E. G. R. Ardagh and G. R. Bongard. Ind & Eng Chem 16:300-1 Mr '24
Critical studies on the fusion of rare-metal ores; the pyrosulfate fusion of titanium ores. G: W. Sears and L. Quill. Am Chem Soc J 47:922-9 Ap '25
Determination of aluminium in nonferrous alloys. G. E. F. Lundell and H. B. Knowles. Ind & Eng Chem 17:78-9 Ja '25
Determination of lead, copper, and tin in drosses. J: H. Hastings. Eng & Min J 118: 293-4 Ag 23 '24
Gases in metals. L: Jordan. Am Soc T M Pro 23 pt 2:7-20; Discussion. 21-6 '23
Metallurgical analysis. N. W. Lord and D. J. Demorest. 5th ed. 472p McGraw-Hill '24
Simplification of the separation of zinc from iron and aluminium. E. G. R. Ardagh and G. R. Bongard. bibliog Ind & Eng Chem 16: 297-9 Mr '24
Solution of tin and antimony oxides. E. Stelling. Ind & Eng Chem 16:346 Ap '24
Standard methods of chemical analysis of brass ingots and sand castings. Am Soc T M Standards 1923:30-9
Standard methods of chemical analysis of bronze bearing metal. Am Soc T M Standards 1923:40-53
Superseding chemical analysis by specific gravity tests. S. Mörtsell. il Eng & Min J 119:725-8 My 2 '25
Technical methods in analysis of metallurgical and allied products. W. W. Scott. 875p Van Nostrand '23
Tested methods of metallurgical analysis (non-ferrous). S. Pile and R. Johnston. 127p H. F. & G. Witherby, London '22

See also Alloys; Aluminum—Analysis; Assaying; Brass—Analysis; Bronze—Analysis; Copper—Analysis Ferrosilicon—Analysis; Iron—Analysis; Lead—Analysis; Manganese—Analysis; Radium—Analysis; Steel—Analysis; Tin—Analysis; Tungsten—Analysis; Vanadium—Analysis

METALLURGICAL apparatus
Handling work in hardening baths; equipment for hardening work in cyanide and lead baths. C. T. Ketz. diags Mach 31:703-4 My '25
Metallurgy at the British Empire exhibition. Engineering 117:788-9 Je 20 '24

See also Ball mills; Classifiers; Converters; Crushing machinery; Flotation machines; Magnetic separators; Rotary pans; Separators; Sintering machines; Tube mills

Patents
Process and apparatus for reducing ores and producing cement. diags Chem Age (Lond) 13:107-8 Jl 25 '25

METALLURGICAL laboratories
Plant laboratory and the testing of raw material. S. R. Robinson. Blast F & Steel Pl 13:336-7 Ag '25
Shop laboratory that improves the product; the metallurgical laboratory at the Niles tool works. C: O. Herb. il Mach 31:1-3 S '24
Southern experiment station—its problem and purpose. A. H. Hubbell. il Eng & Min J 118: 132-4 Jl 26 '24

See also Metallurgical research; *also* Great Britain—National physical laboratory, Teddington

METALLURGICAL plants
Chief Consolidated starts novel reduction plant. A. B. Parsons. flow sheet il Eng & Min J 118:582-4 O 11 '24
Experimental ore dressing and metallurgical plant of the Colorado school of mines. S. P. Warren. J Eng Educ 15:252-8; Discussion. 258-60 D '24
Experimental plant of the Chemical development and reduction company. C. M. Dawson. il Eng & Min J 120:383 S 5 '25

See also Blast furnaces; Cyanide plants; Iron works; Metallurgical laboratories; Smelting works; Steel works; *also* California Rand silver, inc.

Accidents
Accidents at metallurgical works in the United States during the calendar year 1922. W: W. Adams. U S Bur Mines Tech Pa 350:1-31 '23
Accidents at metallurgical works in the United States during the calendar year 1923. W: W. Adams. U S Bur Mines Tech Pa 374: 1-31 '25; Abstract. Monthly Labor R 20: 1321-3 Je '25

By-products
See Slag; Tailings

Electric equipment
Electrical equipment of the Consolidated mining and smelting company's zinc plant, Trail, B. C., Canada. R. N. Lockyer. il diags plans Am Inst E E J 43:531-44 Je '24

Equipment
Equipping the one-man mill. D. Lay. il diag Eng & Min J 118:245-9 Ag 16 '24
Power economy in elevating ore pulps. C. W. Tandy. Eng & Min J 118:128 Jl 26 '24
Smelter and refinery of the Nichols copper co. E: H. Robie. il Eng & Min J 119:290-5 F 14 '25

See also Launders

Arizona
New Cornelia concentrating mill at Ajo, Arizona. H. K. Burch. flow sheets il diags plans Eng & Min J 118:806-21 N 22 '24

Belgium
Les usines métallurgiques. J. Galibourg. Soc Ing Civils Bul 76:1113-24 O '23

Colorado
Ouray: famous for the Camp Bird. C. R. Wilfley. il map Eng & Min J 120:570-5 O 10 '25

India
Manufacture of tin plate in India. F. L. Estep. il diag Iron Age 114:1122-8, 1197-8+ O 30-N 6 '24; Same cond. Iron Tr R 75:1173-6 O 30 '24

Mexico
New A.S. & R. projects in Mexico involve $10,000,000 for construction. A. B. Parsons. il Eng & Min J 118:786-7 N 15 '24
Peñoles company expands operations in Mexico. A. B. Parsons. il map Eng & Min J 119: 217-20 Ja 31 '25
Taxco, in Guerrero, Mexico. R. B. Brinsmade. il map Eng & Min J 119:1050-4 Je 27 '25

Peru
A. S. & R. subsidiary starts new 150-ton mill in Peru. A. B. Parsons. flow sheets il Eng & Min J 117:858-60 My 24 '24

METALLURGICAL research
Metallurgical research. T: Turner. Engineer 137:276-7 Mr 14 '24
Metallurgical research in England. W. Rosenhain. il plans Iron Age 115:975-8+, 1129-31 Ap 2, 16 '25
Research activity of the A.S.T.M. Iron Age 116:28-9 Jl 2 '25
Research investigations for the year 1922-1923. 90p Univ. of Utah, State school of mines, Salt Lake City '24

METALLURGICAL research—*Continued*

Significant progress in research in metals. G: L. Kelley. Ann Am Acad 119:24-31 My '25

Standards bureau metal research. H. W. Gillett. il Iron Age 116:461-5+, 536-42 Ag 20-27 '25

See also Foundry research; Metallurgical laboratories; *also* British non-ferrous metals research association; Carnegie institute of technology; Pittsburgh—Bureau of metallurgical research; Copper and brass research association

METALLURGISTS

See Caldecott, William Arthur; Hall, Robert George

METALLURGISTS, French

French metallurgy (1889-1925) and the important part played by France in the past; some curious and unexplained facts connected with manganese steel. R. Hadfield. il Soc Chem Ind J (Chem & Ind) 44:1029-44 O 23 '25; Excerpts. Iron Tr R 77:1333-4, 1398-1400, 1464-5, 1597-8 N 26-D 10, 24 '25; Engineer 140:385-6 O 9 '25

Le rôle de la science française dans la métallurgie. L. Guillet. Génie Civil 87:351-2 O 24 '25

METALLURGY

Accuracy in sampling metallurgical materials. A. C. Halferdahl. Eng & Min J 118:731-2 N 8 '24

Application of oxygen to metallurgical and allied fields. F. W. Davis. Am Inst Chem Eng Trans v 15 pt 2:67-71 '23; Abstract. Iron Tr R 73:1619-20 D 13 '23; Discussion. Am Inst Chem Eng Trans v 15 pt 2:71-80 '23

Chemistry of solids. C. H. Desch. Soc Chem Ind J (Chem & Ind) 44:907-13, 924-9 S 11-18 '25; Same cond. Chem Age (Lond) 13: 247, sup17-19 S 5 '25

Concentrator practice in Utah saves coal used per ton but enlarges total demand. R. D. Hall. Coal Age 28:391-2 S 17 '25

Development of treatment methods for complex ores. R. G. Hall. Eng & Min J 117:440-5 Mr 15 '24

Developments in metallurgy. S. B. Goodale. Blast F & Steel Pl 12:109-12 F '24

Empire mining and metallurgy. Engineer 137: 624-5, 660-1 Je 6-13 '24; Engineering 117:739-42, 759-62 Je 6-13 '24

Erzielung hoher wirtschaftlichkeit von feuerungen. K. Huffelmann. Stahl & Eisen 44: 1488-91 N 20 '24

Metallurgical problems—present and future. W. Rosenhain. Engineering 116:621 N 16 '23

Metallurgical section. Published in Chemical age (London) in first issue of each month

Metallurgical treatment of zinc-retort residues. B. M. O'Harra. U S Bur Mines Tech Pa 341:1-25 [bibliog. p. 22-5] '25

Metallurgy; an elementary text-book. E. L. Rhead. rev. ed. 403p Longmans '24

Metallurgy at the British Empire exhibition. Engineering 117:604-5, 668-9, 730; 118:335-6, 438-41 My 9, 23, Je 6, S 5, 26 '24

Méthodes de recherche et de contrôle dans la métallurgie de précision. P. Chevenard. diags Soc Ing Civils Bul 76:932-72 Jl '23; Abstract. Génie Civil 83:91-2 Jl 28 '23

Non-ferrous metallurgy in America; abstracts. W. M. Corse. Iron Age 114:693-4 S 18 '24; Engineering 118:376-7 S 12 '24

Physicist in metallurgy; abstracts. C. H. Desch. Engineering 117:212-13 F 15 '24; Elec R (Lond) 94:434 Mr 14 '24

Practical metallurgy for engineers. 431p E. F. Houghton & co., Philadelphia '23

Pyrometallurgy; improvements in smelter details. E. H. Robie. Eng & Min J 119:114-16 Ja 17 '25

Pyrometallurgy; significant development recorded in 1923. E. H. Robie. Eng & Min J 117:109-11 Ja 19 '24

Recent work of the Canadian mines department in chemistry and metallurgy. J: McLeish. Can Chem & Met 8:111-13 My '24

Science at the British Empire exhibition. il diags Engineering 117:627-31 My 16 '24

Sulphurising and desulphurising of metals. B. Bogitch. Chem Age (Lond) 10:[Met sec] 34-5 My 3 '24

Theoretical metallurgy. R. S. Dean. 246p Wiley '24

Time factor in metallurgy. Chem Age (Lond) 11:sup41-2 D 6 '24

Use of oxygen-enriched air. W. S. Landis. Iron Age 113:848 Mr 20 '24

Use of oxygenated air in metallurgy. Iron Tr R 74:619 F 28 '24; Same. Foundry 52:212 Mr 15 '24

See also Alloys; Amalgamation; Amalgams; Assaying; Blast furnaces; Chemical engineering; Chemistry, Technical; Chloridizing processes; Copper metallurgy; Cyanide process; Electrometallurgy; Filters and filtration (metallurgy); Flotation process; Flue dust; Flux; Furnaces, Metallurgical; Gold metallurgy; Hydrometallurgy; Iron metallurgy; Lead metallurgy; Manganese bronze; Metallography; Metallurgical analysis; Metallurgical apparatus; Metallurgical laboratories; Metallurgical plants; Metallurgical research; Metals; Nickel metallurgy; Open hearth process; Ore treatment; Ores; Refractory materials; Silver metallurgy; Sintering machines; Smelting; Steel metallurgy; Tailings; Tempering; Tin metallurgy; Titanium; Zinc metallurgy; *also* Empire mining and metallurgical congress

Bibliography

Recent publications relating to ores, fuels, and metallurgy. Iron & Steel Inst J 109:632-7 no 1; 110:477-83 no 2 '24

History

History and progress of metallurgical science. R. Hadfield. il Engineer 136:474-6, 510-12, 536-7, 552-3, 578-80 N 2-30 '23

Study and teaching

Value of problems in teaching metallurgy. C. B. Carpenter. J Eng Educ 15:695-703; Discussion. 704-5 My '25

Terminology

Metallurgical definitions. Eng & Min J 118: 341-2 Ag 30 '24

METALLURGY, Dental. See Dental metallurgy

METALS

Absorption of light by vapours of Pb, Sn, Bi, Sb, and Mg. A. L. Narayan and K. R. Rao. Philos Mag 6th ser 50:645-9, pl 23 S '25

Action of metals on nitric acid. W. D. Bancroft. J Phys Chem 28:475-93 My '24

Action of nitric acid on metals. N. R. Dhar. J Phys Chem 29:142-59 F '25

Adhesion between metal surfaces. Sauerwald and Jaenichen. Engineer 139:sup53-4 Ap 24 '25

Chemistry of the metals. H. R. Moody. 99p Oxford book co., New York '23

Contact electromotive force between the solid and liquid phases of the same metal and between the outgassed surfaces of two dissimilar metals. P. H. Dowling. diags Phys R 25:812-25 Je '25

Deterioration of some metals in hot, reducing ammonia gases. J. S. Vanick. il Am Soc T M Pro 24 pt 2:348-72 '24

Diffusion of hydrogen through metals. H. G. Deming and B. C. Hendricks. Am Chem Soc J 45:2857-64 D '23

Displacement of metals from solutions of their salts by less electropositive elements; the reaction between amides of the alkali and alkaline earth metals and elements more electropositive than tin. F. W. Bergstrom. Am Chem Soc J 47:1836-41 Jl '25

METALS—*Continued*

Effect of electrolysis on the rate of corrosion of metals in photographic solutions. J. I. Crabtree, H. A. Hartt, and G. E. Matthews. Ind & Eng Chem 16:13-19 Ja '24

Effect of free surfaces on the plastic deformation of certain metals. F. C. Thompson and W. E. W. Millington. bibliog diag Iron & Steel Inst J 110:61-74, pl 4; Discussion. 75-84 no 2 '24

Effect of temperature upon metals. E. G. Jarvis. Metal Ind 22:446-7 N '24

Effect of temperature upon properties of metals. Mech Eng 46:414-16 Jl '24

Electrical conductivity and certain other properties of metals and alloys on the basis of Bohr's theory. K. Höjendahl. diags Philos Mag 6th ser 48:349-60 Ag '24

Electron emission from metals as a function of temperature. O. W. Richardson. Phys R 23:153-5 F '24

Electronic bombardment of metal surfaces. H. E. Farnsworth. diags Phys R 25:41-57 Ja '25

Emission of secondary electrons from metal under electronic bombardment. E. W. B. Gill. Philos Mag 6th ser 46:994-9 N '23

Engineering non-ferrous metals and alloys. L. Aitchison and W: R. Barclay. 300p Oxford '23

Equilibria between metals and fused salts. R: Lorenz. Am Electrochem Soc Trans v 47 (preprint 22):243-58 Ap '25

Fibre in metals. Engineer 138:727-8 D 26 '24; Discussion. N. Belaiew. 139:55 Ja 9 '25

Further experiments on the periodic dissolution of metals. E. S. Hedges and J. E. Myers. Chem Soc J 127:445-9 F '25

Gases in metals. Engineer 139:sup82 Je 26 '25

Gases in metals. L. Jordan. Am Soc T M Pro 23 pt 2:7-20; Discussion. 21-6 '23

Heat developed during plastic extension of metals. W. S. Farren and G. I. Taylor. J Fr Inst 199:696 My '25

How metals stand up against corrosion. Chem & Met Eng 31:70-9 Jl 14 '24; Excerpts. Brass W 20:270-2, 309-13 Ag-S '24

How the Germans contrived to substitute one thing for another in the war period. C. P. Karr. Brass W 21:69-70 F '25

How to select a spring material. J. K. Wood. Am Mach 60:49-52 Ja 10 '24

Ignition points of metals in oxygen under pressure. Chem & Met Eng 29:969 N 26 '23

Industrial applications of metals at various temperatures. L. W. Spring. Am Soc T M Pro 24 pt 2:11-14 '24

Influence of water on certain chemical reactions; the reactions between certain metals and iodine. L. B. Parsons. Am Chem Soc J 47:1830-5 Jl '25

Law and mechanism of the emission of electrons from hot bodies. S. C. Roy. Philos Mag 6th ser 47:561-9 Mr '24

Manufacturers, refiners and producers request government to investigate world reserves of the major non-ferrous metals. Elec W 84: 1281 D 13 '24

Mechanism of the precipitation of metals by hydrogen sulfide; a study of certain sulfur complexes of mercury. G. M. Smith and W. L. Semon. Am Chem Soc J 46:1325-43 Je '24

Metallic luster. W. D. Bancroft and R. P. Allen. J Phys Chem 28:588-610; 29:564-86 Je '24, My '25

Metals employed in power machinery. Louis. Brass W 20:354-5 O '24

Metals in the gaseous state. C. H. M. Jenkins. Engineer 140:sup106-9, sup115-18 Jl 31-Ag 28 '25

Metals of tomorrow; American chemical society's intersectional symposium on metals. Chem & Met Eng 30:229-30 F 11 '24

Motion of electricity in metals; abstracts. H. A. Lorentz. Engineering 119:625-6 My 22 '25; Electrician 94:566+ My 15 '25

New uses for metals; a symposium. W: A. Willis and others. il Metal Ind 22:1-4, 55 Ja-F '24

Die nichteisenmetalle unter besonderer berücksichtigung der luftfahrzeuge. E. H. Schulz. diags Zeit Ver Deutsch Ing 68:545-50 My 31 '24

Nonferrous metals at the Wembley exhibition. H: Turner. il Brass W 20:299-301 S '24

Patternmaker should know of metals. W. C. Ewalt. Foundry 53:33 Ja 1 '25

Periodic dissolution of metals in certain reagents. E. S. Hedges and J. E. Myers. il diag Chem Soc J 125:604-26 Mr '24

Physical properties of materials; strengths and related properties of metals and wood. diags U S Bur Stand Circ 101:1-204 [bibliog. p. 194-8] '24

Precision measurements of the lattice constants of twelve common metals. W. P. Davey. Phys R 25:753-61 Je '25

Reactions of strongly electropositive metals with organic substances in liquid ammonia solution; the synthesis of oxygen and sulfur ethers and of alkyl derivatives of ammono acids. G: F. White, A. B. Morrison and E. G. E. Anderson. Am Chem Soc J 46:961-8 Ap '24

Re-determination of the heats of oxidation of certain metals. J. E. Moose and S. W. Parr. diags Am Chem Soc J 46:2656-61 D '24

Reduction of metals from their salts by means of other metals in liquid ammonia solution. C: A. Kraus and H. F. Kurtz. Am Chem Soc J 47:43-60 Ja '25

Relation of materials to machine design. J. K. Wood. Am Mach 61:985-8 D 25 '24; Discussion. 62:798 My 21 '25

Relations between Young's modulus and other physical quantities. J. P. Andrews. Philos Mag 6th ser 50:665-74 O '25

Science of metals. Z. Jeffries and R. S. Archer. 460p McGraw-Hill '24

Self-diffusion in solid metals; abstract. G. Hevesy and A. Obrutsheva. J Fr Inst 200: 633-4 N '25

Soft X-rays from certain metals. C. T. Chu. diags J Fr Inst 200:615-27 N '25

Some principles underlying the successful use of metals at high temperatures. F. A. Fahrenwald. il Am Soc T M Pro 24 pt 2:310-47 '24

Specific heats of magnesium, calcium, zinc, aluminum and silver at high temperatures. E. D. Eastman, A. M. Williams and T. F. Young. Am Chem Soc J 46:1178-83 My '24

Statistical theory of emission of electrons from hot bodies. S. C. Roy. Philos Mag 6th ser 50:250-63 Jl '25

Symposium on effect of temperature upon the properties of metals. Am Soc T M Pro 24 pt 2:9-188 '24 [also published separately]

Thermal energy of electrons in metals. E. D. Eastman, A. M. Williams and T. F. Young. Am Chem Soc J 46:1184-96 My '24

Trend in physical metallurgy. C. H. Mathewson. J Fr Inst 199:37-50 Ja '25

Trend in the science of metals. Z. Jeffries. Iron Age 113:571-2, 720-2 F 21, Mr 6 '24

Uses of metals in early times. C. A. Grabill. Eng & Min J 119:247-50 F 7 '25

Vapor pressures of some liquid and solid metals. R. W. Millar. Ind & Eng Chem 17: 34-5 Ja '25

Variation of logarithmic decrement with amplitude and viscosities of certain metals. G. Subrahmaniam and D. Gunnaiya. Philos Mag 6th ser 49:711-24 Ap '25

Variation of logarithmic decrement with amplitude and viscosity of certain metals. G. Subrahmaniam. Philos Mag 6th ser 50: 716-22 O '25

Volume changes on melting and freezing. Engineer 139:sup42-4 Mr 27 '25

METALS—*Continued*

Zur frage der bildsamen formänderung. H. Preussler. diags Stahl & Eisen 45:1422-8 Ag 20 '25

See also Acid-resisting materials; Alkali metals; Alloys; Aluminum; Amalgams; Annealing; Antimony; Assaying; Babbitt metal; Bearing metals; Bismuth; Brass; Bronze; Cadmium; Cast iron; Cesium; Chromium; Cobalt; Copper; Corrosion and anticorrosives; Earths, Rare; Electric pulverization of metals; Electrodeposition of metals; Electrometallurgy; Electron metal; Fatigue in metals; Foundry practice; Gallium; Geology; Germanium; Gold; Hardening; Hardness; Heat treatment; Iridium; Iron; Lead; Magnesium; Manganese; Mercury; Metal trade; Metallography; Metallurgy; Mineralogy; Mines and mineral resources; Molybdenum; Monel metal; Neodymium, Nickel; Ore deposits; Ores; Pickling (metals); Platinum; Plymetl; Potassium; Praseodymium; Radium; Sheet metal; Silver; Slag; Smelting; Sodium; Solder and soldering; Solutions, Metallic; Solutions, Solid; Steel; Strength of materials; Strontium; Tantalum; Tarnishing of metals; Thallium; Tin; Titanium; Tungsten; Vanadium; Welding; Zinc; Zirconium; *also* British non-ferrous metals research association

Cleaning

See Metal cleaning

Failure

Fractures. G. H. Gulliver. il Engineer 139: sup88-91 Je 26 '25

Some notes on failure in metals. A. Pickles. Chem Age (Lond) 12:sup27 Ap 4 '25

See also Fatigue in metals

Prices

Chart of metal prices for 1923-1924. Metal Ind 23:50 Ja '25

Diagrams showing fluctuations in the prices of metals from Christmas, 1922, to Christmas, 1923. Engineering 116:814 D 28 '23

Diagrams showing fluctuations in the prices of metals from Christmas, 1923, to Christmas, 1924. Engineering 118:872 D 26 '24

Diminishing values of metals. H. R. Hanley. Eng & Min J 120:622-3 O 17 '25

Fluctuations in carload prices of copper, lead, tin and spelter in New York, and tin plate and black and galvanized sheets in Pittsburgh; chart. Iron Age 115:79 Ja 1 '25

Fluctuations in prices of pig tin, aluminum, antimony, lake copper, zinc and lead, 1905-1923; chart. Iron Tr R 74:118a Ja 3 '24

Fluctuations in prices of pig tin, aluminum, antimony, lake copper, zinc and lead, 1905-1924; chart. Iron Tr R 76:112a Ja 1 '25

Fluctuations in the prices of engineering materials during 1923. Engineer 137:25 Ja 4 '24

Market history told by prices. Iron Tr R 74: 99-110 Ja 3 '24

Market history told by prices. Iron Tr R 76: 91-103 Ja 1 '25

Market report. Published in weekly numbers of Engineering and mining journal-press

Metal prices, January, 1923, to July, 1924. chart Eng & Min J 118:157 Jl 26 '24

Metals, tin plate and sheets for twenty-one years, 1903-1923. Iron Age 113:88 Ja 3 '24

1925 metal market outlook does not justify lower car prices. W. C. Hirsch. Automotive Ind 51:1082-3 D 25 '24

Prices of copper, lead, zinc, tin, and silver, 1901-1924; chart. Eng & Min J 119:152a Ja 17 '25

26 years of fluctuations in carload prices of copper, lead, tin and spelter in New York and tin plate and no. 28 black and galvanized sheets in Pittsburgh; chart. Iron Age 113:89-90 Ja 3 '24

Yearly average prices of principal metals. 1895-1923. Eng & Min J 117:140 Ja 19 '24

Yearly average prices of principal metals. 1895-1924. Eng & Min J 119:145 Ja 17 '25

Season cracking

Initial strains and stresses in metal. diag Power 60:957 D 9 '24

Testing

Accelerated electrolytic corrosion test. R. J. Anderson and G: M. Enos. il diag Am Soc T M Pro 24 pt 2:735-52; Discussion. 753-66 '24

Accelerated fatigue tests and some endurance properties of metals. D. J. McAdam, jr. Am Soc T M Pro 24 pt 2:454-75; Discussion. 601-17 '24

Accuracy in high-temperature testing of materials. L. W. Spring and J. Kanter. il diags Power 62:325-9 S 1 '25

A. S. T. M. metal committees 4th session, Cleveland, Oct. 27-29. Iron Tr R 77:1178+ N 5 '25; Iron Age 116:1259-60 N 5 '25; Foundry 53:921 N 15 '25

Ball indentation test. S: L. Hoyt. Engineer 139:sup11-14 Ja 30 '25; Abstract. Mech Eng 46:701-2 N '24

Behaviour of metals under compressive stresses; abstracts. H. I. Coe. Engineering 116:349-51 S 14 '23; Iron Age 113:996-9 Ap 3 '24

Comparative slow bend and impact notched bar tests on some metals. S. N. Petrenko. il diags U S Bur Stand Tech Pa 289:315-46 [bibliog. p. 345-6] '25

Comparison of Herbert pendulum hardness tester with other hardness testers. J. O. Keller. il Mech Eng 46:818-24 pt 2 N '24; Discussion. 47:282-4 Ap '25

Creep of metals at high temperatures. R. W. Bailey. Engineering 119:518 Ap 24 '25

Cross-relations of strengths of metals in tension, compression, torsion and transverse loading. G. B. Upton. Sibley J 38:2-6 Ja '24

Design of specimens for short-time fatigue tests. L. B. Tuckerman and C. S. Aitchison. diags U S Bur Stand Tech Pa 275:47-55 '24

Duration of loading and ball hardness; abstract. R: Mailänder. Mech Eng 47:133-4 F '25

Dynamic elastic limit in tension. G. Welter. Engineer 140:sup110-11 Jl 31 '25; Same. Eng & Contr (Bldgs) 64:683-5 S 23 '25

Effect of temperature on metals and alloys in the notched-bar test. R. H. Greaves and J. A. Jones. Engineering 120:308-10 S 4 '25

Endurance properties of alloys of nickel and of copper. D. J. McAdam, jr. Engineer 139: sup55-60 Ap 24 '25; Abstract. Eng N 94:527 Mr 26 '25

Endurance tests of metals. Eng N 93:172-3 Jl 31 '24

Ermüdungserscheinungen und dauerversuche. R: Mailänder. Stahl & Eisen 44:585-9, 624-9, 657-61, 684-91, 719-21 My 22-Je 19 '24

Les essais de torsion des métaux; déformations élastiques et déformations permanentes. J. Seigle and F. Cretin. diags Génie Civil 84: 545-9, 565-8 Je 7-14 '24

Evidence for the existence of an endurance, or fatigue limit in metals and its determination. H. F. Moore and T. M. Jasper. diag Engineering 118:580-2, 658-60 O 24, N 7 '24

Examination of metal fractures. Chem Age (Lond) 13:sup11 Ag 1 '25

Failure of metals by fatigue. F. A. Rowlinson. diags Sci Am 131:240+ O '24

Fatigue of metals by direct stress. P. B. Irwin. diag Eng N 95:311-12 Ag 20 '25

Fatigue tests of metals and the theory of elasticity. H. F. Moore. Eng N 94:225-6 F 5 '25

Festigkeit und materialprüfung. P. Ludwik. diags Zeit Ver Deutsch Ing 68:212-14 Mr 8 '24

Grosszahlforschung, zuverlässigkeit technischer messungen und streuungsmasse. G. Sachs. Stahl & Eisen 44:941-6 Ag 7 '24

Hardness and hardness testing. L. B. Tuckerman. Mech Eng 47:53-5 Ja '25

Hardness numbers and their relation. H. P. Hollnagel. diags Iron Age 114:1404-6; 115: 770-3 N 27 '24, Mr 12 '25

METALS—Testing—*Continued*
Hardness of metals and hardness testing. Mech Eng 46:360-2 Je '24
Hardness of metals and hardness testing. F. E. Cardullo. Mech Eng 46:638-9 O '24
High temperature and long-time tests of metals. T. D. Lynch, N. L. Mochel and P. G. McVetty. diags Eng N 95:308-9 Ag 20 '25
Influence of the ratio of length to diameter in the compression testing of babbitt metals. J: R. Freeman, jr. and P. F. Brandt. Am Soc T M Pro 23 pt 2:150-5 '23
Influence of the time factor on tensile tests conducted at elevated temperatures. J: S. Brown. Engineering 120:461-4 O 9 '25; Discussion. 120:297-8 S 4 '25; Engineer 140:244 S 4 '25
Investigation of the fatigue in metals; series of 1923. H. F. Moore and T. M. Jasper. il diags Ill U Eng Exp Sta Bul 142:1-86 '24; Abstracts. Eng N 93:212 Ag 7 '24; Power 60: 111-12 Jl 15 '24
Limite d'élasticité et module d'élasticité dans les produits métallurgiques. L. Guillet. Génie Civil 86:626-8 Je 27 '25
Metals committees of A.S.T.M. discuss new specifications and research at Philadelphia meeting, Mar. 18-20. Eng N 94:536 Mr 26 '25
Metals for use in handling organic solvents; action of acetone and methanol. R. F. Remler. il Chem & Met Eng 30:511-12 Mr 31 '24
Metals resistant to mine water. R. J. Anderson and G: M. Enos. Eng N 93:64 Jl 10 '24
Method for determining the resistance of metals to drilling and its application to the investigation of the machinability of metals; abstract. A. Kessner. Mech Eng 46:556-7 S '24
Methods of testing at various temperatures and their limitations. V. T. Malcolm. il diags Am Soc T M Pro 24 pt 2:15-55; Discussion. 142-88 '24
Pile temper-testing machine. R. G. Johnston. il Brass W 19:353-5 N '23
Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. bibliog Mech Eng 47:559-65 Jl '25
Recent English endurance tests of steel and other metals. Eng N 93:709-10 O 30 '24
Resistance of manganese bronze, duralumin and electron metal to alternating stresses. R. R. Moore. il diags Am Soc T M Pro 23 pt 2:106-21; Discussion. 122-9 '23
Resistance of metals to repeated static and impact stresses. R. R. Moore. il Am Soc T M Pro 24 pt 2:547-73 '24
Significance of common physical properties of structural materials. F. H. Moore. diags Soc Auto Eng J 17:175-80; Discussion. 180-2 Ag '25
Significance of the elastic limit, elongation and impact strength in construction. P. Ludwik. Engineer 139:sup45-7 Mr 27 '25; Same. Eng & Contr (Bldgs) 63:1404-7 Je 24 '25
Some fatigue tests on non-ferrous metals. F. R. Moore. Aviation 19:10 Jl 6 '25
Study of metals by X-ray in its infancy. Iron Tr R 73:1736 D 27 '23
Study of stress-strain problems by means of Röntgen rays. il diags Engineering 116:750-1, 762-3 D 14-21 '23
Studying the fatigue of metals. H. F. Moore il diags Am Mach 62:563-5 Ap 9 '25
Tension tests of thin gage metals and light alloys. H. A. Anderson. il Am Soc T M Pro 24 pt 2:990-1003; Discussion. 1004-11 '24
Tentative methods of Brinell hardness testing of metallic materials. Am Soc T M Pro 24 pt 1:1099-1105 '24
Tentative methods of compression testing of metallic materials. diags Am Soc T M Pro 24 pt 1:1094-8 '24
Tentative methods of tension testing of metallic materials. diags Am Soc T M Pro 24 pt 1:1081-93 '24
Test die for finding the shearing strength of metals. H: Simon. diag Am Mach 62:897 Je 4 '25
Testing materials in the laboratory. il Mach 31:184-6 N '24
Testing of materials. F. C. Lea. Engineering 116:633-4 N 16 '23
Translating tension test results into terms of service. Am Mach 61:414 S 11 '24
Types of apparatus used in testing the corrodibility of metals. H: S. Rawdon, A. I. Krynitsky and W. H. Finkeldey. il diags Am Soc T M Pro 24 pt 2:717-34; Discussion. 753-66 '24
Über gleit- und brucherscheinungen. J. Scholl. diags Zeit Ver Deutsch Ing 69:406-10 Mr 28 '25
Use of microstructure in specifications. Engineer 139:sup27-8 F 27 '25
Valve method of detecting minute slipping in metals. C. Handford. diags Philos Mag 6th ser 47:896-907, pl 6 My '24
Vergleichende zug-, druck-, dreh- und walzversuche. P. Ludwik and R. Scheu. Stahl & Eisen 45:373-81 Mr 12 '25
X-ray examination of metals at the Watertown arsenal, Watertown, Mass. T. C. Dickson. Mech Eng 46:773 pt 2 N '24; Same. Am Mach 61:911-12 D 11 '24

See also Brinell hardness test; Copper—Testing; Hardness; Magnetic testing; Notched bar testing; Scleroscope; Sheet metal—Testing; Steel—Testing; Testing machines; Welding—Testing

Bibliography

Bibliography. Am Soc T M Pro 24 pt 2:128-40 '24
Ermüdungserscheinungen und dauerversuche. R: Mailänder. Stahl & Eisen 44:721-5 Je 19 '24

Theft

Electric waves to locate metals. Eng & Min J 119:967 Je 13 '25

METALS, Cold working of
Cold working on bolts and nuts. il Iron Age 116:289-90 Jl 30 '25
Effect of cold working. R. R. Moore. Am Soc T M Pro 24 pt 2:565-9 '24
Verformen und rekristallisieren. F: Körber. diags Stahl & Eisen 45:217-23, 261-5, pl 5-6 F 12-19 '25
X-ray evidence versus the amorphous-metal hypothesis. R. J. Anderson and J. T. Norton. Metal Ind 23:97-8 Mr '25

METALS, Hardening of. See Hardening

METALS, Liquid
Determination of the density of liquid cast iron. H. A. Schwartz. il diag Ind & Eng Chem 17:647-9 Je '25
Effect of a magnetic field on the electrical resistance of liquid metals and alloys. E. J. Williams. diags Philos Mag 6th ser 50:27-46 Jl '25

METALS, Powdered
Die wesentlichen vorgänge beim pressschweissen und ein verfahren zu ihrer untersuchung. F. Sauerwald. Stahl & Eisen 45:1274-6 Jl 23 '25

METAMORPHISM
New kind of metamorphism and its application to the study of ore deposits. A. N. Winchell. Econ Geol 20:642-5 N '25

METANILIC acid
Electrolytic preparation of metanilic acid and its commercial possibilities. A. K. Doolittle. diag Am Electrochem Soc Trans v 45 (preprint 4):43-61; Bibliography. 61-2 Ap '24

METASOMATISM
Physico-chemical theory of metasomatism. H. C. Boydell. Econ Geol 20:388-91 Je '25
Processes in contact metasomatism. P. Geijer. Econ Geol 20:687-90 N '25

METASTABILITY
Metastable state in mercury vapor. H. W. Webb. diags Phys R 24:113-28 Ag '24
Post-arc conductivity and metasable helium. C. Eckart. diags Phys R 26:454-64 O '25

METEOR mountain crater, Arizona
Meteor mountain crater, Arizona. L. F. S. Holland. Eng & Min J 119:253-4 F 7 '25

METEORITES
Merrillite and chlorapatite from stony meteorites. E. V. Shannon and E. S. Larsen. Am J Sci 5th ser 9:250-60 Mr '25
Meteorites. A. M. Miller. Sci Am 131:167 S '24
New meteorite from Baldwyn, Miss. L. C. Glenn. Am J Sci 5th ser 9:488 Je '25

METEOROLOGICAL instruments
See Anemometer; Hygrometer; Thermometers and thermometry

METEOROLOGY
Les applications de la météorologie à l'agriculture et au tourisme; abstract. G. Reboul. Génie Civil 86:521-2 My 23 '25
Beneficence of atmospherics. R. A. W. Watt. il (supp) Roy Aeronautical Soc J 29:62-72; Discussion. 72-5 F '25
Considérations générales sur la météréologie et ses applications; application à l'aéronautique. P. Renard. Génie Civil 86:491-2 My 16 '25
Making the weather. A. McAdie. 88p Macmillan '23
New ideas in meteorology. G. C. Simpson and others. Engineering 120:346-8 S 18 '25
Weather bureau at the pumping station. S. G. Highland. Am Water Works Assn J 13: 647-52 Je '25; Same. Can Eng 46:565-6 My 27 '24; Excerpts. Eng & Contr (W W) 61: 1286-7 Je 11 '24
Why the weather? C: F. Brooks. 310p Harcourt '24

See also Air; Atmosphere; Atmospheric electricity; Atmospheric temperature; Auroras; Clouds; Cyclones; Earth temperature; Floods; Fog; Humidity; Ice on rivers, lakes, etc.; Lightning; Magnetism, Terrestrial; Rain and rainfall; Snow; Solar radiation; Storms; Thunderstorms; Weather; Winds

METER deposits. See Public utilities—Deposit requirements

METER reading
Catechism of central station gas engineering in the United States. Am Gas J 121:1127-8 N 29 '24
Life of a meter reader. G: W. Sherman. Am Gas J 119:552-3+ N 17 '23
Meter reading and bill delivering. C. R. Johnson. Am Gas J 123:219-20+ S 12 '25; Same cond. Gas Age 56:567-8 O 17 '25
Rochester's (New York) meter-reading and billing system. S. B. Story. N E Water Works Assn J 39:71-3 Mr '25; Same. Eng & Contr (W W) 63:1248-9 Je 10 '25; Discussion. N E Water Works Assn J 39:74-8 Mr '25

METERS
Tools of the chemical engineer; fluid measuring devices. D. H. Killeffer. il Ind & Eng Chem 16:785-8 Ag '24

See also Accelerometer: Air flow; Electric meters; Flow meters; Gas meters; Graphic meters; Meter reading; Micrometers; Steam meters; Tachometers; Torsion meter; Venturi meter; Viscosimeters; Water meters; Weirs

METERS, Electric. See Electric meters

METERS, Gas. See Gas meters

METERS, Water. See Water meters

METHANE
Contribution à l'étude de la chloruration du méthane. H. Gault and H. Benlian. Chimie & Ind 13:58 Ja '25
Ignition of gases; ignition by inductance sparks—mixtures of the paraffins with air. R: V. Wheeler. diags Chem Soc J 127:14-26 Ja '25
Methane as likely as natural gas to be ignited by exposed filament. Coal Age 27:501 Ap 2 '25
Methane by catalysis from CO in blue water gas. R. T. Haslam and H. O. Forrest. bibliog Gas Age 52:615-18+ N 17 '23
New design for collecting methane gas from Imhoff tanks. K. Imhoff. diag plan Eng N 93:585 O 9 '24
Relation between the crystal structure and the constitution of carbon compounds; crystallography of further simple substitution products of methane. I. E. Knaggs. diags Chem Soc J 125:1441-4 Jl '24
Six per cent of methane makes mine air dangerously explosive. R. V. Wheeler. Coal Age 25:489-90 Ap 3 '24
Thermal decomposition of methane. R. C. Cantelo. J Phys Chem 28:1036-48 O '24

METHANE indicator, Burrell. See Burrell methane indicator

METHANESULFONAMIDE
Action of diazo-salts on methanesulphonamide. P. K. Dutt. Chem Soc J 125:1463-5 Jl '24

METHANESULFONYL group
Directing influence of the methanesulphonyl group. R: F. Twist and S. Smiles. Chem Soc J 127:1248-52 Je '25

METHANETRIACETIC acid
Experiments on the synthesis of the polyacetic acids of methane; an improved synthesis of methanetriacetic acid. M. H: Dreifuss and C. K. Ingold. Chem Soc J 123:2964-7 N '23

METHANOL
Chemistry moved too fast. H. E. Howe. Nation's Business 13:19 Je '25
Dangers in German methanol. R. Hunt. Manuf Rec 88:74 Jl 9 '25
Detection of constant-boiling mixtures; hydrochloric acid—water and methyl alcohol—benzene. T. R. Briggs. J Phys Chem 28: 644-50 Je '24
Effect of nitrogen and carbon dioxide dilutions on explosion limits of acetone and methanol and their mixtures. H. Crouch and E. K. Carver. diag Ind & Eng Chem 17:641-2 Je '25
German synthetic methanol arrives in New York and threatens existence of the American wood distillation industry. Can Chem & Met 9:101 Ap '25
German wood distillers control methanol price. Oil Paint & Drug Rep 108:21 S 7 '25
Liberation of hydrogen from carbon compounds; the interaction of acetylene, methyl alcohol and formaldehyde with fused caustic alkalies. H. S. Fry, E. L. Schulze and H. Weitkamp. Am Chem Soc J 46:2268-75 O '24
Metals for use in handling organic solvents; action of acetone and methanol. R. F. Remler. il Chem & Met Eng 30:511-12 Mr 31 '24
Methanol: its properties, manufacture and uses. R. F. Remler. Chem Age 32:109-11, 159-61 Mr-Ap '24
Methanol producers and refiners appeal for protection against synthetic product. Oil Paint & Drug Rep 107:21+ My 18 '25
November production of acetate of lime and methanol. Comm & Fin Chr 118:259 Ja 19 '24
Production of acetate of lime and methanol large in 1923, but diminishes at the close. Comm & Fin Chr 118:856 F 23 '24
Specific heats and latent heats of fusion of ice and of several organic compounds. O. Maass and L. J. Waldbauer. Am Chem Soc J 47:1-9 Ja '25
Synthetic methanol. C: H. Herty. Textile World 67:4134 Je 27 '25
Synthetic methanol is poisonous. R. Hunt. Ind & Eng Chem 17:763 Jl '25

Manufacture
Coal may capture alcohol market from wood. Coal Age 28:219 Ag 13 '25
Complete utilization of coal and motor fuel. A. C. Fieldner and R. L. Brown. Oil Paint & Drug Rep 108:xii-xiii pt 2 O 5 '25; Same. Nat Pet N 17:83+ N 11 '25; Same cond. Coal Age 28:562-3 O 22 '25; Excerpt. Chem & Met Eng 32:799 O '25

METHANOL—Manufacture—*Continued*
La fabrication des carburants synthétiques aux dépens des mélanges de carbone et d'hydrogène. E. Audibert. Chimie & Ind 13: 186-94 F '25
France to begin the manufacture of synthetic methanol by the Patart process. Chemicals 24:3 Ag 3 '25
Industrial production of synthetic methanol. C: Lormand. bibliog diag Ind & Eng Chem 17:430-2 Ap '25
Latest German developments in coal liquefaction and synthetic methanol. il Chem Age (Lond) 13:268-9 S 12 '25
Methanol synthesis has been tried for 12 years by various processes. Oil Paint & Drug Rep 107:20 Ap 6 '25
Une nouvelle conquête de la catalyse sous pression: la production industrielle de l'alcool méthylique de synthèse. G. Patart. il diags Chimie & Ind 13:179-85 F '25; Abstract. Génie Civil 86:442-3 My 2 '25; Excerpt. J Fr Inst 200:33-4 Jl '25
Preparation of pure methyl alcohol. H. Hartley and H. R. Raikes. Chem Soc J 127:524-7 Mr '25
La production industrielle de l'alcool méthylique de synthèse, par catalyse sous pression. G. Patart. Génie Civil 86:170-1 F 14 '25
Synthetic manufacture of methanol. Ind & Eng Chem 17:981-2 S '25
Synthetic methanol. R. T. Elworthy. bibliog Can Chem & Met 9:139-40 Je '25; Same. Chem Age (Lond) 12:634 Je 27 '25
Synthetic methanol and formaldehyde. W. M. Gardner. Soc Dyers & Col J 41:228-9 Je '25
Synthetic methanol controversy; Patart process. Ind & Eng Chem 17:859 Ag '25
Wood alcohol from water gas. I. Ginsberg. diag Am Gas J 122:461-2 My 30 '25

Patents

Basic methanol patent is American owned. Chem & Met Eng 32:462 Ap '25
Methanol patent status offers knotty problem. Oil Paint & Drug Rep 107:21 Ap 13; 21+ Ap 20; 21 My 4 '25
Methanol patents start controversy on priority. Oil Paint & Drug Rep 107:21 My 25 '25
Methyl alcohol from methane. Chem Age (Lond) 13:123 Ag 1 '25

METHOXYACETOPHENONE
Phenyl benzyl diketone and some derivatives. T: Malkin and R. Robinson. Chem Soc J 127:369-77 F '25

METHOXYBENZYL bromides
Preparation of the isomeric methoxybenzyl bromides. J: B. Shoesmith. Chem Soc J 123:2698-2703 O '23
Reduction of *m*-methoxybenzyl bromide by hydrogen iodide. J: B. Shoesmith. Chem Soc J 123:2828-30 N '23

METHOXYINDOLES
Methoxyindoles and their derivatives. K. G. Blaikie and W: H: Perkin, jr. Chem Soc J 125:296-335 F '24

METHOXYL group
Chemistry of wood; relation between methoxyl and lignin. G. J. Ritter. Ind & Eng Chem 15:1264-6 D '23
Strychnine and brucine; the position of the methoxyl groups in brucine. F. Lions, W: H: Perkin, jr. and R. Robinson. Chem Soc J 127:1158-69 My '25

METHOXYPIPERIDINE
Attempts to prepare 1-methyl-2-methoxypiperidine; the hydrogenation of certain pyridine derivatives. T. B. Grave. Am Chem Soc J 46:1460-70 Je '24

METHOXYQUINOLINE
Synthesis of 4-tetrahydroquinolone and a new synthesis of 4-methoxyquinoline. G: R. Clemo and W: H: Perkin, jr. Chem Soc J 125:1608-22 Ag '24

METHOXYTOLUENE sulfonic acids
Derivatives of the four isomeric sulphonic acids of *m*-tolyl methyl ether. R. D. Haworth and A. Lapworth. Chem Soc J 123: 2982-96 N '23

METHOXYVINYL group
Nature of the alternating effect in carbon chains; the directing influence of the α-methoxyvinyl group in aromatic substitution. C. K. Ingold and E. H. Ingold. Chem Soc J 127:870-5 Ap '25

METHYL acetate
Influence of gum arabic on the hydrolysis of methyl acetate. J. N. Pearce and J. V. O'Leary. J Phys Chem 28:51-4 Ja '24

METHYL alcohol. See Methanol

METHYL arabinoside
Relations between rotatory power and structure in the sugar group; the rotatory powers of the alpha and beta forms of methyl *d*-xyloside and of methyl *l*-arabinoside. C. S. Hudson. Am Chem Soc J 47:265-8 Ja '25

METHYL benzalpyruvate
Study of benzalpyruvic acid and its esters; the action of sunlight on crystalline methyl benzalpyruvate. M. Reimer. Am Chem Soc J 46:783-90 Mr '24

METHYL chloride
Thermal properties of methyl chloride. D. N. Shorthose. diags charts Refrig Eng 11:70-6 Ag '24; Abstract. Engineering 117:613-14 My 9 '24

METHYL cytosine
Researches on pyrimidines; the discovery of 5-methyl-cytosine in tuberculinic acid, the nucleic acid of the tubercle bacillus. T. B. Johnson and R. D. Coghill. Am Chem Soc J 47:2838-44 N '25

METHYL esters
Velocity of reaction in mixed solvents; the velocity of saponification of certain methyl-esters by potassium hydroxide in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 123:2688-98 O '23

METHYL ethers
Oxime of mesoxamide (*iso*nitrosomalonamide) and some allied compounds; structural and stereo-isomerism in the methyl ethers of the *p*-tolyl derivatives. A. Plowman and M. A. Whiteley. Chem Soc J 125:587-604 Mr '24

METHYL gentiobioside
Relations between rotatory power and structure in the sugar group; the rotation of the alpha form of methyl gentiobioside recently synthesized by Helferich and Becker. C. S. Hudson. Am Chem Soc J 47:872-3 Mr '25

METHYL green
Influence of certain chemicals on the rate of reproduction of yeast in wort; methyl green. N. A. Clark. J Phys Chem 28:223-4 Mr '24

METHYL hypobromite
Addition of methyl hypobromite to certain ethylene derivatives. J. B. Conant and E. L. Jackson. Am Chem Soc J 46:1727-30 Jl '24

METHYL ketones
Higher methyl ketones. G. T. Morgan and E. Holmes. Soc Chem Ind J 44:108-10, 491-2 Mr 6, O 16 '25; Abstract. Chem Age (Lond) 12:131 F 7 '25

METHYL xyloside
Relations between rotatory power and structure in the sugar group; the rotatory powers of the alpha and beta forms of methyl *d*-xyloside and of methyl *l*-arabinoside. C. S. Hudson. Am Chem Soc J 47:265-8 Ja '25

METHYLAMINE
Detection of methylamine in presence of excess of ammonia. P. A. Valton. Chem Soc J 127:40-1 Ja '25

METHYLANILINE hydrochlorides
Mechanism of the Hofmann rearrangement of methyl aniline hydrochloride. J. W. Howard and C. G. Derick. Am Chem Soc J 46:166-77 Ja '24

METHYLANTHRAQUINONE
1:2:8-trimethoxy-6-methylanthraquinone and 1:2:8-trimethoxy-7-methylanthraquinone. J: L. Simonsen. Chem Soc J 125:721-6 Mr '24
Polyhydroxy-methylanthraquinones; condensation of opianic acid with substituted phenols—orientation in the preparation of anthraquinones. R. A. Jacobson and R. Adams. Am Chem Soc J 46:2788-93 D '24

METHYLANTHRAQUINONE—*Continued*
Preparation of methyl-anthraquinone derivatives as intermediates for the vat dyes. Chemicals (Dyestuffs sec) 16:175+ My 25 '25

METHYLATION
Constitutional studies in the monocarboxylic acids derived from sugars; the methylation of tetramethyl gluconic acid. J: Pryde. Chem Soc J 125:520-2 Mr '24
Examination of photosynthetic sugars by the methylation method. J. C. Irvine and G. V. Francis. Ind & Eng Chem 16:1019-20 O '24
Glycogen; partial methylation, and the isolation of methylated glucoses. A. K. Macbeth and J: Mackay. Chem Soc J 125:1513-21 Jl '24
Methylations; hydrolysis of dimethyl sulfate. H. F. Lewis, O. Mason and R. Morgan. Ind & Eng Chem 16:811-12 Ag '24
Tautomerism of amidines; methylation of glyoxalines by diazomethane—bromination of 4(or 5)-phenylglyoxaline. W: G. Forsyth and F. L. Pyman. Chem Soc J 127:573-81 Mr '25
Tautomerism of amidines; the methylation of 4(or 5)-nitroglyoxaline and 4(or 5)-phenylglyoxaline. C: E. Hazeldine, F. L. Pyman and J: Winchester. Chem Soc J 125:1431-41 Jl '24
Wandering of the acetyl group during methylation. O. Kubota and A. G: Perkin. Chem Soc J 127:1889-96 Ag '25

METHYLCOUMARIN
Preparation of 6-methylcoumarin and its derivatives. T. J. Thompson and R. H. Edee. Am Chem Soc J 47:2556-9 O '25

METHYLCYCLOHEXYLIDENE-acetic acid
Rotatory dispersive power of organic compounds; simple dispersion in 1-methylcyclohexylidene-4-acetic acid. E. M: Richards and T: M. Lowry. Chem Soc J 127:238-40 Ja '25

METHYLDIHYDROARSINDOLE
As-methyldihydroarsindole. E. E. Turner and F. W. Bury. Chem Soc J 123:2489-92 O '23

METHYLDIPHENYLMETHYL DICHLORAMINE
Crystallography of methyldiphenylmethyldichloramine. D. J. Fisher. diag Am J Sci 5th ser 10:201-3 S '25

METHYLENE amino-acetonitrile. See Hydroformamine cyanide

METHYLENE blue
Absorption of methylene-blue by cotton; effect of bleaching. C. Birtwell, D. A. Clibbens and B. P. Ridge. diag Textile Inst J 14: T297-313 S '23; Abstract. Soc Dyers & Col J 39:347-8 N '23
Interaction of glucose and methylene blue in an alkaline medium. E. Knecht and E. Hibbert. Soc Dyers & Col J 41:94-5; Discussion. 95 Mr '25
Mercuration of methylene blue. L. Chalkley, jr. Am Chem Soc J 47:2055-61 Jl '25
Note on the use of dyes in agar media. M. Levine. Am Water Works Assn J 14:267-72 S '25
Use of dyestuffs in analytical chemistry. F: W: Atack. bibliog Can Chem & Met 9:201-2 S '25

METHYLENE-citric anhydride
Methylene-citric anhydride; the aniline derivatives of citric and aconitic acids. C. A. Nau, E. B. Brown and J. R. Bailey. Am Chem Soc J 47:2596-2606 O '25

METHYLENE-OXADI-IMINE
Additive formation of four-membered rings. C. K. Ingold. Chem Soc J 125:87-102 Ja '24

METHYLENE tartrates
Rotatory dispersion of derivatives of tartaric acid; methylene derivatives. P. C. Austin and V: A. Carpenter. Chem Soc J 125:1939-46 S '24

METHYLETHYL ketone
Addition products of methylethyl ketone with chloroform, bromoform and iodoform. J: B. Ekeley and C. J. Klemme. Am Chem Soc J 46:1252-4 My '24
Purification of methylethyl ketone by sodium iodide. H. L. Lochte. Ind & Eng Chem 16: 956 S '24

METHYLETHYL sulfate
Methylethyl sulfate as an alkylating agent. F. K. Thayer. Am Chem Soc J 46:1044-6 Ap '24

METHYLGLUCOSIDE
Synthetic fat containing a methylglucoside residue. J. C. Irvine and H. S. Gilchrist. Chem Soc J 125:1-10 Ja '24

METHYLGLUTACONIC acid
Addition of cyano-acetic esters to esters of glutaconic and β-methylglutaconic acids. E. P. Kohler and G. H. Reid. Am Chem Soc J 47:2803-11 N '25
Conditions underlying the formation of unsaturated and cyclic compounds from halogenated open-chain derivatives; products derived from halogenated α-methylglutaric acids. C. K. Ingold. Chem Soc J 127:387-98 F '25

METHYLIMIDAZOLE
Bromo-derivatives of 1-methylglyoxaline, and the constitution of chloroxalmethylin. I. E. Balaban and F. L. Pyman. Chem Soc J 125: 1564-72 Ag '24

METHYLSTANNONIC acid
Derivatives of methylstannonic acid. H. Lambourne. Chem Soc J 125:2013-15 O '24

METHYLTARTARIC acid
Derivatives of citraconic acid; the synthesis of methyltartaric acid and the decomposition of dihydroxymaleic acid. W. F. Goebel. Am Chem Soc J 47:1990-8 Jl '25

METRIC system
Formulas for converting metric measures. Foundry 53:104a F 1 '25
Latest metric move; advocates of the system have plan of action for meeting in Lima. Iron Age 114:138 Jl 17 '24
Meaning of the metric move for business and nation. A. G. Cameron. Forbes 13:450-1+, 578-80, 696-8 Ja 19, F 16, Mr 15 '24
National council of U.S. Chamber votes against metric system. Am Mach 60:752c My 15 '24
Oil and metric system. J. B. Rathbun. Pet Age 15:52+ My 15 '25
Progress in metric system introduction. H. Richards. Eng & Contr (W W) 62:605-6 S 10 '24
Selling the metric system—the next step. E. C. Bingham. Chemicals 24:10-11 Ag 31 '25
Some aspects of the metric system. J. W. Drake. Gas J (Lond) 168:494-6; Discussion. 496 N 19 '24
Suggestions regarding metric measures and a new calendar. J. E. A. Moore. Eng & Contr (Bldgs) 62:1147 N 26 '24
Why metric move is opposed for business and nation. J. Mayer. Forbes 13:631-2+; 14:26-8+ Mr 1, Ap 12 '24
See also Standards of length

METROPOLITAN districts
How to plan district water supplies. Eng N 95:414 S 10 '25; Discussion. A. H. Pratt. 95:560 O 1 '25
Metropolitan districts. Pub Works 56:94-6 Mr '25
Metropolitan water supply systems. M. Knowles and J: A. Fulkman. Am Water Works Assn J 13:601-12 Je '25
Plan for a metropolitan water district in New Jersey. Eng N 95:436 S 10 '25
See also Sanitary districts

METROPOLITAN Edison company
Metropolitan Edison company 7% cum. ptg. pfd. Moody's Inv Serv 16:440 D 4 '24

METROPOLITAN life insurance company
Human touch of the Metropolitan Life. Ptr Ink 129:121-2+ D 4 '24
Metropolitan houses in Long Island City. Arch & Bldg 56:42-4, pl 99-105 My '24
Metropolitan life insurance evaluates its advertising. Ptr Ink 131:161-2+ Je 11 '25

METROPOLITAN life insurance company —*Continued*

Policyholders' service bureau

Policyholders' service bureau of the Metropolitan life insurance co. L. A. Tafel. Special Lib 16:288-9 O '25

METROPOLITAN museum of art. See New York (city)—Metropolitan museum of art

MEXICAN petroleum corporation

Four leaf clovers appear in New Orleans; may bloom elsewhere this year. V. B. Guthrie. il Nat Pet N 16:62-3+ F 27 '24

MEXICAN railway

Mexican railway company, limited, 119th general meeting, London. Economist 99:1024-5 D 20 '24

MEXICANS in the United States

Analysis of Mexican patients at Chicago dispensary. G. H. Britton and K. Constable. il Nation's Health 7:453-5+ Jl '25

MEXICO

Credit granting in Mexico. J. E. Hodges. Credit M 27:7-9 O '25

Not essential to "habla espanol" to sell in Mexico. R. McDaniel. Sales Management 8: 669-70 My 2 '25

See also Architecture—Mexico; Debts, Public—Mexico; Geology—Mexico; Labor laws and legislation—Mexico; Railroads—Mexico

Commerce

Foreign commerce of Mexico in the first half of 1925. Econ W n s 30:484 O 3 '25

Importance of the trade of the United States with Mexico. Econ W n s 27:15-16 Ja 5 '24

Mexican West Coast and Lower California. P. L. Bell and H. B. Mackenzie. U S Bur For & Dom Com 220:1-340 '23

Mexico—a market well worth cultivating. Ptr Ink 130:48 Ja 29 '25

Mexico as a market for United States goods. H. Lazo. U S Bur For & Dom Com Trade Information Bul 306:1-19 '25

Mexico's commercial side to-day. F. Suastegui. Am Ind 25:38-9 Jl '25

Shall we tackle Mexico? R. McDaniel. il Sales Management 6:939-40+ My '24

What to avoid when you start out after Mexican business. R. McDaniel. Sales Management 8:517-18+ Ap 4 '25

See also Cotton trade—Mexico; Drug trade—Mexico

Economic conditions

Is Mexico on the road to economic recovery? G. B. Sherwell. il Am Bankers Assn J 17: 442-3+ Ja '25; Same. Econ W n s 29:148-51 Ja 31 '25

Mexican West Coast and Lower California. P. L. Bell and H. B. Mackenzie. il map U S Bur For & Dom Com 220:1-340 '23

See also Banks and banking—Mexico; Cost of living—Mexico; Debts, Public—Mexico; Finance—Mexico; Labor and laboring classes—Mexico; Wages—Mexico

Foreign relations

United States

Developments in Mexico. Comm & Fin Chr 118:31-2, 157-8, 501-3 Ja 5, 12, F 2 '24

Good will mission to Mexico. Comm & Fin Chr 119:1248 S 13 '24

Return to United States of General Calles, President-elect of Mexico. Comm & Fin Chr 119:2017-18 N 1 '24

Secretary Kellogg's warning to Mexico that support will be given to that government only as it protects American lives and rights—President Calles declares Mexico will not accept foreign interference. Comm & Fin Chr 120:3270-2 Je 27 '25

Industries and resources

See Automobile industry and trade—Mexico; Copper mines and mining—Mexico; Electric industries—Mexico; Foundries—Mexico; Lead mines and mining—Mexico; Mines and mineral resources—Mexico; Petroleum—Mexico; Petroleum industry and trade—Mexico; Silver mines and mining—Mexico; Textile industry—Mexico

MEXICO City, Mexico

Mexico's great international fair. M. Gonzalez. il Am Ind 26:31-2 S '25

MIAMI copper company

Transportation and distribution of underground supplies at Miami copper company. A. J. McDermid and J. C. Conniff. il charts diags Min Cong J 11:555-8+ N '25

MIAMI-PICHER district. See Zinc mines and mining—Oklahoma-Kansas district

MIAMI river

Control of river floods with special reference to the Miami conservancy district of Ohio. C: H. Paul. il diags map J Fr Inst 198:161-79 Ag '24

MICA

Commutator maintenance. N. L. Rea. il Power 61:1020-2 Je 30 '25

High-grading mica hurts industry in India. Eng & Min J 119:487 Mr 21 '25

Influence of gaseous ionization and spark discharge on fibrous insulating materials and on mica. J. B. Whitehead. bibliog diags Am Inst E E J 42:1297-1304 D '23

Manufacture of built-up mica. J. R. McClain. il chart Elec J 21:10-16 Ja '24

Mica. J. A. Rogers. Eng & Min J 119:95 Ja 17 '25

Mica and micanite insulation. A. A. C. Dickson. Elec R (Lond) 93:749-50; 94:408-9, 469-70, 688-91; 95:276-8, 312-13 N 16 '23, Mr 14-21, My 2, Ag 22-29 '24

Mica in 1924. Min Cong J 11:456 S '25

Mining mica in India. E. W. T. Slater. Eng & Min J 116:846 N 17 '23

Production and use of mica. Comm M 6:23-7 Ap '25

Production of mica in Madagascar. Eng & Min J 118:454 S 20 '24

Studies in the mica group. A. N. Winchell. Am J Sci 5th ser 9:309-27, 415-30 [bibliog. p. 424-7] Ap-My '25

Über die durchschlagsfestigkeit verschiedener glimmersorten bei 50periodigem wechselstrom. F. Grünewald. il Elektrotech Zeit 45: 1084-6 O 9 '24

MICARTA

Micarta propellers. Sci Am 132:55+ Ja '25

Silent gears for machine tools; properties of micarta gears and applications in the machine tool field. T. C. Roantree. il Mach 30: 363-4 Ja '24

MICHAEL of Bruneck. See Pacher, Michael

MICHELL bearings. See Thrust bearings

MICHELSON, Albert A.

Presentation of the Franklin medal and certificate of honorary membership. J Fr Inst 196:803-20 D '23

MICHIGAN

Sanitary districts authorized in Michigan. Eng N 95:351 Ag 27 '25

See also Hydroelectric plants—Michigan; Railroads—Michigan; Roads—Michigan

MICHIGAN Central railroad

Annual report, 78th, 1923. Comm & Fin Chr 118:3211-12 Je 28 '24; Same cond. Ry Age 76: 1848-9 Je 28 '24

Annual report, 79th, for the year ended Dec. 31, 1924. Comm & Fin Chr 121:213-15 Jl 11 '25; Same cond. Ry Age 79:117-18 Jl 11 '25

Michigan Central breaks previous records. map Ry Age 76:1826-7 Je 28 '24

Michigan Central has another good year. map Ry Age 79:93-4 Jl 11 '25

MICHIGAN City, Indiana

The city that found itself. E. N. Smith. il Nation's Business 12:28-30 Ja '24

MICHIGAN copper and brass company

Michigan copper and brass company. il Metal Ind 22:475-9 D '24

MICHIGAN. University
Chemical engineering at Michigan. C: Wadsworth. il Chem & Met Eng 31:999-1002 D 29 '24

Lawyers' club
Lawyers' club, University of Michigan, Ann Arbor, Mich. Am Arch 126:pl 173-6 N 19 '24

MICROBALANCE. See Balances

MICROCHEMISTRY
Microchemical reactions. W. Lindgren. Econ Geol 19:762-4 D '24
Microchemistry as an industrial economy. W: H. Gesell and M. A. Dittmar. il Ind & Eng Chem 17:808-9 Ag '25
Practical chemistry by micro-methods. E. C: Grey. 124p W. Heffer & sons, ltd., Cambridge, Eng. '25

MICROFARAD meter
Das Weston-mikrofaradmeter. D. Bercovitz. il diags Elektrotech Zeit 46:312-14 F 26 '25

MICROGAGE. See Gages

MICROMETERS
Application of micrometers in railway shops. M. H. Williams. il diags Ry Mech Eng 98: 481-5, 553-8, 615-18 Ag-O '24
Bench micrometers accurate to better than 0.00005 in. il Iron Age 112:1448 N 29 '23
Early micrometer history. L. D. Burlingame. diag Mach 31:764 Je '25
48-in. micrometer. il Am Mach 59:806 N 29 '23
Lewbeck projection micrometer. il Engineering 117:716 My 30 '24
Measurement of very small changes of capacity. R. Gunn. diags Philos Mag 6th ser 48: 224-6 Jl '24
Micrometer and snap gage in one. il Sci Am 129:414 D '23
Micrometer, Vernier and gear tooth calipers. H. Bentley. diag Cassier's Ind Management 11:454, 483-4 O-N '24
Optical gear tooth micrometer. il diag Iron Age 112:1730 D 27 '23
Repairing micrometers. H. J. G. Kopsch. diag Am Mach 62:357-8 F 26 '25; Discussion. 62: 508; 63:27, 66, 159, 201 Mr 26, Jl 2-9, 23-30 '25
Zeiss optical micrometer for the calibration of gauges. il Engineering 120:447 O 9 '25

Manufacture
Manufacturing a precision tool. E. Sheldon. il Am Mach 59:903-7 D 20 '23

MICROORGANISMS
Are microscopic animals a factor in the foaming of Imhoff tanks? J. B. Lackey. diags Pub Works 56:6-7 Ja '25
Bacterial deterioration of cotton during damp storage. A. C. Burns. Textile Inst J 16: T185-96 [bibliog. p. 196] Je '25
Destruction of wool by exposure to the atmosphere. S. R. Trotman and R. W. Sutton. il Soc Dyers & Col J 41:121-7 Ap '25
Effect of the action of micro-organisms on fibres and fabrics. A. C. Thaysen. Soc Dyers & Col J 40:101-4; Discussion. 104 Ap '24
Imperfections in leather caused by microorganisms. J: A. Wilson and G. Daub. il Ind & Eng Chem 17:700-2 Jl '25
Manganese precipitated by micro-organisms. G: A. Thiel. il Econ Geol 20:301-10 Je '25

See also Bacteriology; Mildew; Protozoa

MICROPHONES
Electric ultra-microphone. Elec W 83:62 Ja 5 '24
Masseinheiten für mikrophone und fernhörer. K. Hersen. Elektrotech Zeit 45:398-9 Ap 24 '24
Microphone without a diaphragm. N: Langer. il diag Radio N 6:663+ N '24
Microphones for broadcast purposes. P. P. Eckersley. Electrician 92:35 Ja 11 '24
La modulation en téléphonie sans fil. diags Génie Civil 86:313-14 Mr 28 '25
Neue apparate aus der elektro-akustik. E. Lau. diag Elektrotech Zeit 46:690-1 My 7 '25

See also Loud speaking apparatus

MICRO-PHOTOMETERS. See Photometers

MICROPLASTOMETER. See Plastometer

MICROSCOPE and microscopy
Analytical microscopy, its aims and methods. T: E: Wallis. 149p Longmans '23
Cold light for the microscope. A. Silverman. il diag Ind & Eng Chem 17:573 Je '25
Indirect illumination for the microscope. A. Silverman. diags Ind & Eng Chem 17:43 Ja '25
Making the sun help the microscope. il Sci Am 131:173 S '24
Microscope; an introduction to microscopic methods and to histology. S. H: Gage. 14th ed., rev. 517p [bibliog. p. 490-8] Comstock pub. co., Ithaca, N.Y. '25
Microscope as an aid to analysis; abstracts of papers by Mr Woodhouse and S. R. Trotman. Soc Chem Ind J (Chem & Ind) 43:123-4 F 1 '24
The microscope, part 2. C. Beck. 231p R. & J. Beck, ltd., London '24
Microscopes for metallographic work. il Engineering 118:514-15 O 10 '24
Microscopical vision in the study of knitted goods. A. K. Johnson. il Am Dyestuff Rep 14:209-13 Ap 6 '25
Microtome from a microscope and a sectioning razor. E. B. Spear and R. L. Moore. il Ind & Eng Chem 17:894 S '25
Ore-dressing microscope for examining molding sand. il Eng & Min J 119:1067 Je 27 '25
Practical methods in microscopy. C: H. Clark. 5th ed., rev. & enl. 337p Heath '25
Revue de chimie analytique; le microscope. C: Digaud. il diags Chimie & Ind 12:816-36 N '24
Technique of examining metals under the microscope. G. Pirk. il Gen Elec R 28:573-9, 800-8 Ag, N '25 (to be cont)
Telescope and microscope in one. il Sci Am 131:103 Ag '24
Training of chemists in bacteriology. D: Ellis. Soc Chem Ind J (Chem & Ind) 43:1075-6 O 31 '24
Ultra-violet microscope in the study of vulcanized latex globules. H: Green. il Ind & Eng Chem 17:802-3 Ag '25; Same. India Rubber W 72:720-1 S '25
Zeiss portable microscope. il Iron Age 113: 371 Ja 31 '24; Sci Am 130:395 Je '24
Zeiss portable microscope with the photomicrographic attachment. il Iron Age 113: 1349 My 8 '24
Zeiss toolmakers' microscope. il Automobile Eng 15:311 S '25

See also Metallography; Microchemistry; Photomicrography

MID-CONTINENT oil and gas association
Association's divisions headed by two new presidents and one re-elected. Nat Pet N 16:77-8 D 3 '24

MIDDLE classes
Middle classes are the big buyers of everything. Ptr Ink 129:87-8+ O 2 '24

MIDDLE WEST utilities company
Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:1450-2 Mr 21 '25

MIDDLE West
Middle West on firmer financial ground. C: M. Harger. Annalist 26:307-8 S 11 '25

MIDDLETOWN, Ohio
Engineering in the small city. Eng N 95:425-6 S 10 '25

MIDWEST electric railway association
Annual meeting, Kansas City, Mo., May 25-26. Elec Ry J 65:890-1 Je 6 '25
First annual meeting, Omaha, Neb., June 11-12. Elec Ry J 63:983-8 Je 21 '24
Midyear meeting, St Louis, Nov. 24-25. Elec Ry J 64:958-63 D 6 '24

MIGRATION
Work of committee on scientific problems of human migration, National research council. (Reprint and Circ. Ser. 58) p 189-96 25c National research council, 1701 Massachusetts av., Washington, D.C. '24

See also Immigration and emigration

MIGRATION (chemistry). See Molecular rearrangements

MILANESE cloth
Defective milanese cloth. Textile World 65:2015 Mr 22 '24

MILDEW
Action of molds and bacteria on cotton. A. J. Hall. Color Tr J 15:88-91 S '24
Destruction of cotton by bacteria and fungi. A. J. Hall. il Textile Col 46:514-16 Ag '24
Experiences with micro-organisms and insects in textile work. A. K. Johnson. il Am Dyestuff Rep 14:13-15; Discussion. 15-17 Ja 12 '25
Microbiological injury to fibers and fabrics. C: E. Mullin. Am Dyestuff Rep 13:580-1 S 8 '24
Mildew; abstract. H. R. Hirst. Soc Dyers & Col J 40:162-3 My '24
Mildew in cotton goods. Textile World 67: 3291 My 16 '25
Mildew in cotton goods. T: B. Bright, L. E. Morris and F: Summers. il Textile Inst J 15:T547-58, pl 1-4 D '24; Same cond. Textile World 67:4145+ Je 27 '25
Mildew on knitted materials. R. H. Hirst. Textile World 66:999+ Ag 23 '24
Mold and mildew. A. H. Reiners. Textile World 65:2123+ Mr 29 '24
Molds in textiles. W. S. Richardson. Textile Col 46:771-3; 47:226-8 D '24, Ap '25
Occurrence of mildew in black-bordered dhooties. D. Armstead and S. C. Harland. il Textile Inst J 14:T475-81, pl 1-2 D '23
Progress in mildew research. F. Summers. Textile Inst J 16:P87-8; Discussion. P88-9 Ap '25
Protecting fabrics against mildew and rot. B. Wolcott and C. L. Jennison. Color Tr J 14:167-8 My '24
Studies on the bacteriology and mycology of wool. R. Burgess. bibliog diag Textile Inst J 15:T573-83 D '24

See also Microorganisms

MILITARY aeronautics. See Aeronautics, Military

MILITARY airplanes. See Airplanes, Military

MILITARY architecture

See Armories; Barracks

MILITARY art and science
Progress of mechanical engineering in the military service. G; LeQ. Martel. Engineer 137:124-5 F 1 '24; Engineering 117:132-3 F 1 '24; Discussion. F. L. Watson. 117:313 Mr 7 '24

See also Aeronautics, Military; Camps, Military; Chemical warfare; Disarmament; Projectiles; Smoke screens; Tractors, Military

MILITARY engineering
Modern military engineering. E. Jadwin. il J Fr Inst 200:1-33 Jl '25

See also Roads, Military

MILITARY posts
An army post; student work, Beaux-arts institute of design. Am Arch 126:216+, 295-7 Ag 27, S 24 '24

MILITARY roads. See Roads, Military

MILITARY tractors. See Tractors, Military

MILK
Chemistry of milk and dairy products viewed from a colloidal standpoint. L. S. Palmer. bibliog Ind & Eng Chem 16:631-5 Je '24; Discussion. 16:974 S '24
Emphasize food value of milk. Nation's Health 7:196-8 Mr '25
Milk. H. R. Whitehead. Soc Chem Ind J (Chem & Ind) 42:1226-30 D 21 '23; Discussion. J. Alexander. 43:67 Ja 18 '24

See also Cheese; Cream; Dairying; Lactose; Milk supply; Milk trade

Analysis

Laboratory book of dairy analysis. H: D. Richmond. 3d ed., rev. 118p C. Griffin & co., ltd., London '25

Pasteurization

Chemical engineering in a modern milk plant. il Chem & Met Eng 32:312 F 23 '25
Commercial pasteurization. C: E. North and others. U S Pub Health Bul 147:1-217 '25
Preparing baby's milk; how milk is pasteurized on a huge scale with a minimum of labor. il Sci Am 131:257 O '24

Transportation

Growing use of glass lined steel tank cars for hauling milk. G. F. Kroha. il Ry R 74:1149-50 Je 14 '24
Local transportation of milk. Ry R 75:289-90 Ag 23 '24; Same. Eng & Contr (Ry) 62: 650 S 17 '24
New type milk cars for the Lehigh Valley. il diags Ry Mech Eng 99:35-8 Ja '25; Ry Age 78:229-30 Ja 17 '25
Shipping milk in carload lots. il Sci Am 130: 243 Ap '24
Transportation of milk by motor truck. H: R. Trumbower. il maps Pub Roads 5:1-18 Jl '24
Transportation of milk by motor truck in the Chicago dairy district. E. L. Browne. il maps Pub Roads 6:107-15 Jl '25; Same cond. Good Roads 68:211-15 S '25
Use of motor truck in milk transportation is increasing. Dun's Int R 44:53-4 D '24

MILK, Condensed
Condensed milk from cow to can. Am Ind 24: 36-7 Jl '24
Science and engineering applied to milk industry. il Chem & Met Eng 32:632 Jl '25

Advertising

Advertising goes to work as part of the sales approach; Carnation milk advertising. Sales Management 7:1299-1300 Jl '24
Symbol that does more than identify the product. Ptr Ink 128:125-6 Jl 10 '24

MILK, Dried
Antiscorbutic potency of whole-milk powder. G. W. Cavanaugh, R. A. Dutcher and J. S. Hall. bibliog charts Ind & Eng Chem 16:1070-3 O '24
Dry milk for school service. G. C. Supplee, O. D. Dow and S. C. Hollis. bibliog charts Nation's Health 7:254-6 Ap '25
Drying milk; Peeblês patent. Chem Age 32: 243-4 My '24
Firing a locomotive with milk. il Sci Am 131: 259 O '24
Powdered milk. Survey of Cur Business 50: 26 O '25
Preparation of dry milk for infant feeding. il Nation's Health 7:114-15 F '25
Whole and skimmed milk powders as food; observations on a new vitamin for reproduction. L. T. Anderegg and V. E. Nelson. Ind & Eng Chem 17:451-5 My '25

See also Milk, Condensed; Milk drying

MILK, Human
Buying human milk. Sci Am 132:267+ Ap '25

MILK bottle caps
Advocating bacterial counts on milk bottle caps. J: L. Rice, A. I. Van Saun and K. E. Haywood. il Nation's Health 6:325-7 My '24

MILK cans

Sterilization

Electric sterilizer for the average-sized dairy. il J Elec 54:323 My 1 '25

MILK cooling
Application of refrigeration in the dairy. W. B. Rorison. il diag Refrig Eng 10:287-94 F '24

MILK drying
Peculiar dust explosion in a spray drier used on milk. W: A. Noel. il diag Chem & Met Eng 31:223-5 Ag 11 '24

See also Milk, Dried

MILK handling
Dairy industry. E. T. Keyser. il Am Exporter 95:7-10+ O '24
Scientific handling of milk. G: F: Zimmer. il Ind Management (Lond) 10:307-10 N 29 '23

See also Milk cans

MILK supply
Clean cows and safe milk make healthy babies. L. K. Sadler. diags Nation's Health 7:260-3 Ap '25
Milk supply of Buenos Aires. G. Rodriguez. Nation's Health 6:858-9 D '24
Philadelphia dairymen clean house. J. E. B. Harvey. il Nation's Health 7:550-1 Ag '25
Safe milk for the small city. J: F. Johnston. Nation's Health 7:99-100 F '25
Some practical aspects of city milk control. J. D. Brew. il Nation's Health 7:1-4 Ja '25
Study of Portland's milk supply. C. U. Moore and E. C. Calloway. Nation's Health 6:750-2 N '24

MILK trade
Marketing fluid milk in Philadelphia; an experience in sales co-operation. R. W. Balderston. Ann Am Acad 117:231-42 Ja '25
Price of milk reduced by New York dairymen. Comm & Fin Chr 117:2162 N 17 '23
Uses of milk personally explained to housekeepers. Ptr Ink 126:189+ Ja 10 '24
See also Dairymen's league

Accounting

Cost accounting the cow. W: C. Lyon. Nation's Business 12:37 F '24

Advertising

Consumption statistics good place to find new markets. A. O'Neill. Ptr Ink 131:143-4 My 14 '25
Getting advertising harmony in a widely scattered industry. Ptr Ink 129:136+ O 9 '24
See also Milk, Condensed—Advertising

MILKING machines
Unit consumptions for electric milking. Elec W 86:422 Ag 29 '25

Advertising

How De Laval sold milkers to doubting Thomases. C. G: Muller. Ptr Ink 131:17-19 Je 4 '25

MILKWEED
Seed hairs of the milkweed. A. W. Schorger. Ind & Eng Chem 17:642 Je '25

MILL construction. See Building, Mill construction

MILLIKAN, Robert Andrews
Nobel laureate in physics. por Chem & Met Eng 29:958 N 26 '23; Ind & Eng Chem 15:1287 D '23
Portrait. Sci Am 131:85 Ag '24

MILLINERY
Millinery. N. Kneeland. 145p (Merchandise manuals for retail salespeople.) Shaw '25

MILLING
Automatic milling. F. D. Jones. il diags Mach 30:919-25 Ag '24
Automatic milling operations performed on small pieces of cylindrical machine-steel stock in producing binder chain links. il diag Mach 31:722 My '25
Essentials to good results in milling. A. N. Goddard. Am Mach 63:158 Jl 23 '25
Four modern milling jobs. il Am Mach 63:147 Jl 23 '25
Group and gang milling for economical production. E. L. Holcomb. diag Mach 31:371 Ja '25
How to estimate machine shop costs. A. A. Dowd. diags Am Mach 61:149-52, 227-30, 839-42 Jl 24, Ag 7, N 27 '24
Lathe equipped for milling irregular grooves. S. Almond. il diag Mach 31:370 Ja '25
Machining Pierce-Arrow cylinders. C: B. Ekdahl. il diags Mach 31:968-72 Ag '25
Milling automobile truck connecting-rods. C. O. Herb. il diag Mach 31:276-8 D '24
Milling curved slots in typewriter parts. J. W. Brhel. il Am Mach 60:815 My 29 '24
Milling evenly spaced keyways in collars. S. A. McDonald. diags Mach 30:630-1 Ap '24
Milling large crankcases. il Mach 32:183 N '25
Milling practice in railroad shops. il Am Mach 62:922 Je 11 '25
Milling turbine impulse blades. il Mach 32:220-1 N '25
Special milling operations. il Mach 31:566 Mr '25
What modern machine tools are doing; Cincinnati milling machines. diags Am Mach 61:654-5 O 23 '24
What the cutter marks tell. D. A. Hampson. Am Mach 63:65 Jl 9 '25

MILLING cutters
A. S. S. T. recommended practice for the heat-treatment of taps and milling cutters. Am Mach 63:194 Jl 30 '25; Mach 31:966-7 Ag '25
Characteristics of stellite; reference-book sheet. diag Am Mach 63:705 O 29 '25
Chart for calculating speeds and feeds of solid and inserted-blade milling cutters; reference-book sheet. Am Mach 63:749 N 5 '25
Device to keep milling cutters clear of chips. W: Denton. il Am Mach 62:745 My 7 '25
Grinding face milling cutters. il diags Mach 31:700-1 My '25
Inserted-blade straddle mills. D. A. Hampson. diag Am Mach 60:28 Ja 3 '24
Inserted tooth face milling cutters. il Ry Mech Eng 98:384-5 Je '24; Iron Age 113:1654 Je 5 '24
Keyways in milling cutters. C. J. Oxford. Mach 31:390 Ja '25
Larger keyways in milling cutters. Mach 30:102; 31:499 O '24, F '25
Non-adjustable fixture for sharpening milling cutters. D. A. Hampson. il Am Mach 61:245-6 Ag 7 '24
Report on the action of cutting tools. E. G. Coker. diags Engineering 119:363-4, 403 Mr 20-27 '25; Abstract. Engineer 139:318-19 Mr 20 '25; Discussion. Engineering 119:357-8 Mr 20 '25; Engineer 139:320 Mr 20 '25
Rundtisch-fräsmaschine. F. W. Hülle. il diags Zeit Ver Deutsch Ing 69:912-14 Jl 4 '25
Selection of milling cutters for helical involute teeth. E. Wildhaber. diags plan Am Mach 59:909-11 D 20 '23
Shop-made formed cutter. H: Simon. il diags Mach 31:685-6 My '25
Théorie du fraisage. N. Sawine. diags Génie Civil 87:127-9 Ag 8 '25
Über schnittgeschwindigkeit und schnittdruck beim fräsen. G. Engel. il diags Zeit Ver Deutsch Ing 69:819-22 Je 13 '25
See also Boring bars; Slots—Standards

Cooling

Air blast for cooling cutters. D. A. Hampson. il Am Mach 62:171 Ja 22 '25; Discussion. W: Denton. 62:356 F 26 '25

Repair

Rejuvenating worn cutting tools. il Am Mach 62:849-50 My 28 '25

Safety devices

Guarding a large milling cutter. C. H. Franklin. il Am Mach 63:361 Ag 27 '25

MILLING machinery. See Ball mills; Crushing machinery; Tube mills

MILLING machines
Attachments for the milling machine. W. E. Buck. il Am Mach 61:511 S 25 '24
Bement 58-in. locomotive rod milling machine. il Am Mach 60:195-6 Ja 31 '24; Iron Age 113:375 Ja 31 '24; Mach 30:479-80 F '24; Ry Mech Eng 98:245-6 Ap '24
Bilton automatic milling machine. il Am Mach 62:518 Mr 26 '25
Bilton pro-ducto-matic milling machines. il Am Mach 63:639 O 15 '25
Bohr- und fräswerke im grossmaschinenbau. A. Schlegelmilch. il diags Zeit Ver Deutsch Ing 68:865-71 Ag 23 '24
Brown & Sharpe motor-in-the-base milling machine. il Am Mach 62:365 F 26 '25; Iron Age 115:623 F 26 '25; Automotive Ind 52:468 Mr 5 '25; Mach 31:574-5 Mr '25; Ry Mech Eng 99:243-4 Ap '25; Engineering 119:568-9 My 8 '25

MILLING machines—*Continued*
Cincinnati high-power and M-type pyramid-column milling machines. il Am Mach 63: 407-9 S 3 '25; Mach 32:65-6 S '25; Automotive Ind 53:374-5 S 3 '25; Iron Age 116:612-14 S 3 '25; Ry Mech Eng 99:663-4 O '25
Designing an automatic groove-milling machine. A. A. Dowd. diags Mach 32:114-17 O '25
Development of machine tools in New England. G. Hubbard. il Am Mach 60:255-8 F 14 '24
Double-end milling fixture. D. D. Wells. diags Mach 30:797 Je '24
Dual cutters are adjustable on standard milling machine. il Automotive Ind 52:712 Ap 16 '25
Enclosed electric drive and friction clutch feature new milling machine. W. L. Carver. Automotive Ind 51:1095 D 25 '24
Equalized drive for milling machine arbors. O. S. Marshall. diag Mach 31:730 My '25
Finishing small surfaces in the milling machine. W. W. Tangeman. Mech Eng 47:307-8 Ap '25
Fixture for milling helical grooves. F. Ramsey. il diags Am Mach 60:116-17 Ja 17 '24
Fixture for milling helical slots. H. Densmore. il Am Mach 61:698 O 30 '24
Fixture that reduces milling costs. D. A. Hampson. il diags Am Mach 59:958-9 D 27 '23
Fixtures for automatic millers. il Mach 31: 772-3 Je '25
Fixtures for machining shoes and wedges. F. C. Hudson. il diags Am Mach 63:495-7 S 24 '25
Fixtures for production milling. A. A. Dowd. diags Mach 30:521-3 Mr '24
Le fraisage: la fraise—les machines à fraiser —les machines à tailler les engrenages—exemples de travaux de fraisage. M. Varinois. 2d ed. 784p Dunod, Paris '23
Front axle milling machine by Smith & Coventry, ltd. il Automobile Eng 15:269 Ag '25
Growing use of milling machines in the railroad shop. M. H. Westbrook. il Am Mach 62:271-2 F 12 '25
Heavy-duty worm-drive milling machines, made by James Archdale & co., ltd. il Engineering 119:383-5 Mr 27 '25
Hendey no.2G geared-head milling machine. il Am Mach 60:69-70 Ja 10 '24; Iron Age 113:217 Ja 17 '24
High production machines in the automobile shop; Ingersoll traveling-head milling machines. il Am Mach 62:417-20 Mr 12 '25
High-speed cutting of brass and other soft metals in standard machine tools. L. D. Burlingame. il diags Mech Eng 47:711-12 S '25
How milling machines service has helped manufacturers. F. H. Colvin. il Am Mach 61:405-9 S 11 '24
Increasing production milling by doubling tables; abstract. F. H. Mayoh. Mech Eng 45:707 D '23
Indicator for milling machine. D. A. Baker. diag Mach 31:394 Ja '25
Kearney & Trecker motor-in-the-base milling machines. il Iron Age 115:120 Ja 8 '25
Keller toolroom milling machine, type BL. il Am Mach 63:489-92 S 17 '25; Iron Age 116:894 O 1 '25; Mach 32:159-60 O '25
Kempsmith circular milling-machine table. il Am Mach 63:331-2 Ag 20 '25
Kempsmith maximillers with motor in base. il Am Mach 63:172 Jl 23 '25; Automotive Ind 53:216 Ag 6 '25
Kempsmith vertical and universal milling machines attachments. il Am Mach 63:253 Ag 6 '25
Kendall and Gent four-spindle plano-milling machine. il Engineering 119:733, 736 Je 12 '25
Knee-type milling machines in railway shops. il Am Mach 62:811 My 21 '25
Milling device for a turret lathe. C. H. Van Fossen. diags Am Mach 62:630 Ap 16 '25
Milling fixture for a gear box. S. A. White. diags Am Mach 62:326 F 19 '25
Milling fixtures and drill jig for fan bracket. D. D. Wells. diags Mach 30:294-5 D '23
Milling-machine dynamometer. il Sci Am 129: 399 D '23
Milling machine over-arms. F. Horner. il diags Mach 31:482-7 F '25
Milling machines in railway shops. L. R. Curley. il Ry Mech Eng 99:342-50 Je '25
Milling spring pads on rear-axle housings. A. G. Miller. il Am Mach 61:546 O 2 '24
Milling tappet carrier mounts bosses in cylinder block. il Automotive Ind 52:659 Ap 9 '25
Milwaukee milling machines. il Am Mach 63: 369-70 Ag 27 '25; Automotive Ind 53:337 Ag 27 '25; Iron Age 116:546 Ag 27 '25
Milwaukee motor-in-base milling machine. il Am Mach 62:33-4 Ja 1 '25; Ry Mech Eng 99:124 F '25
Muir & co. plano-milling machine for profile work. il Engineer 139:308 Mr 13 '25
Multiple fixture with unusual equalizing means. il diags Mach 30:422-3 F '24
Newton planetary type radius milling machine. il Am Mach 60:489 Mr 27 '24
Outboard support for milling machine table. J. Williams. il Am Mach 60:705 My 8 '24
Pratt & Whitney bench machines. il Mach 30: 986 Ag '24; Iron Age 114:250 Jl 31 '24
Pratt & Whitney hand milling machine. il Iron Age 113:1007 Ap 3 '24
Recent developments in precision bench tools. B. A. Behrend. il Am Mach 59:829-31 D 6 '23
Rockford high-production miller. il Iron Age 113:1579-80 My 29 '24
Rockford milling machine company rigidmill. il Am Mach 61:901 D 4 '24
Special milling attachments and fixtures. F. D. Jones. il Mach 31:279-83 D '24
Special milling fixture for fluting taps. H. F. Crawford. il Am Mach 62:935 Je 11 '25
Sundstrand double-spindle milling machine. il Mach 30:805-6 Je '24; Am Mach 60:701-3 My 8 '24
Two ingenious milling fixtures. J: Williams. il Am Mach 61:510-11 S 25 '24
Universal clutch-milling fixture. C: G. Pfeffer. il diag Am Mach 62:71-2 Ja 8 '25
Utilizing the hand milling machine. A. Clegg. diag Am Mach 60:29 Ja 3 '24
Wide range of specialized work now performed by milling machines. W. L. Carver. il Automotive Ind 51:356-60 Ag 21 '24

See also Gear cutting machines; Machine tools; Milling cutters

MILLIONAIRES
Men who pay—and why. E. Dakin. Comm & Fin 14:1755-6 S 16 '25

MILLS. See Factories; *also* names of different kinds of mills, e.g. Cotton mills; Flour mills; Rolling mills; Sawmills; Textile mills

MILLS, Ball. See Ball mills

MILLS, Tube. See Tube mills

MILWAUKEE, Wisconsin
1924 meeting of the American foundrymen's association and the Institute of metals division, A. I M. E., in Milwaukee, Wis., October 11-16. R. L. Foley. Metal Ind 22:389-94 O '24

See also Electric plants (central stations) —Milwaukee

Industries
Milwaukee is versatile workshop. il Iron Tr R 75:863-6 O 2 '24; Foundry 52:758-61 O 1 '24

Railroads
C. & N.W. Ry. depresses busy main line at Milwaukee. il diags Eng N 92:570-4 Ap 3 '24

Rapid transit
Milwaukee contract terms. Elec Ry J 64:571 O 4 '24
Milwaukee's proposed service-at-cost franchise. W. H. Maltbie. Aera 13:1114-17 F '25
Railway operating revenues in Milwaukee well maintained. Elec Ry J 65:674-5 Ap 25 '25

MILWAUKEE, Wisconsin—Rapid transit —*Continued*
Service-at-cost and purchase contract. Elec Ry J 65:425-6 Mr 14 '25
$2,131,164 net at Milwaukee. Elec Ry J 63:483 Mr 22 '24

Sewerage

L'installation pour l'épuration des eaux d'égout de la ville de Milwaukee (Wisconsin, E.-U.). A. Bidault des Chaumes. il plan Génie Civil 85:285-9 O 4 '24
Milwaukee sewage disposal plant opened. Eng N 95:75+ Jl 9 '25
Power plant of Milwaukee sewage disposal works. il diags plans Power 60:316-22 Ag 26 '24
Pumping-engine tests and sewage disposal at Milwaukee. il Mech Eng 47:837-44 O '25

MILWAUKEE electric railway and light company
Interesting public utility bond. Moody's Inv Serv 17:55 F 13 '25

MILWAUKEE technical high school
Teaching trades in a technical school. il diags Mach 30:340-3 Ja '24

MILWAUKEE vocational school
Apprentice training and the Milwaukee system. Iron Age 114:1104-6 O 23 '24
Community apprentice training; how the metal-working concerns in Milwaukee cooperate. H. A. Frommelt. il Mach 31:801-2 Je '25
Co-ordinating employe training. L. A. Hartley. Iron Tr R 76:1451-4 Je 4 '25; Same. Foundry 53:522-5 Jl 1 '25
Cutting tomorrow's labor costs. H. A. Frommelt. il Iron Age 115:1773-4 Je 18 '25
Discuss apprenticeship at the spring meeting of the American society of mechanical engineers. Iron Age 115:1662 Je 4 '25
Employee training. L. A. Hartley. Iron Age 115:1647-9 Je 4 '25
Need for district organization of modern apprenticeship; Milwaukee plan. H. A. Frommelt. Mech Eng 47:96-8; Discussion. 101-2 F '25
Place of vocational schools in the district apprenticeship plan. R. L. Cooley. Mech Eng 47:625; Discussion. 625-6 Ag '25
Solves training of apprentices. il Iron Tr R 75:1018-22 O 16 '24; Same. Foundry 52:752-7 O 1 '24
Square pegs and round holes. H. A. Frommelt. il Iron Age 116:25+ Jl 2 '25
White collars versus overalls. H. A. Frommelt. Iron Age 115:1723-4 Je 11 '25

MIMEOGRAPH
See Copying processes

MINE accidents
Accidents in coal and metal mines. il Safety Eng 47:11-19 Ja '24
Cost of accidents in metal mines as measured by compensation insurance premiums. B. O. Pickard. U S Bur Mines Rep of Invest 2625: 1-9 Jl '24 (typew)
Fatal accidents at mines and quarries in Great Britain in 1923. Econ W n s 28:98-9 Jl 19 '24
Fatal accidents in mines in India. Monthly Labor R 20:1144-5 My '25
Metal-mine accidents in the United States during the calendar year 1922. W: W. Adams. U S Bur Mines Tech Pa 354:1-72 '24
Metal-mine accidents in the United States during the calendar year 1923. W: W. Adams. U S Bur Mines Bul 248:1-90 '25; Abstract. Monthly Labor R 21:402-3 Ag '25
Metal mine accidents—Lake Superior district. il Min Cong J 11:474-6 O '25
Mine-accident statistics. W. W. Adams. U S Bur Mines Rep of Invest 2579:1-16 F '24 (typew)
Mine accident statistics. W. W. Adams. U S Bur Mines Rep of Invest 2641:1-8 S '24 (typew); Same. Econ W n s 28:525-8 O 11 '24; Abstracts. Monthly Labor R 19:1350-3 D '24; Nat Safety N 11:31 Ja '25
Who pays for the accidents? R: V. Ageton. Safety Eng 46:263-4 D '23

See also Blasting—Safety devices and measures; Coal mines and mining—Accidents and explosions; Coal mines and mining—Safety measures; Firedamp; Mine explosions; Mine fires; Mine rescue work; Mine subsidences; Mining engineering—Safety measures; Safety lamps

MINE accounting
Calculating abandonments of mining plant. C: W. Tandy. Eng & Min J 120:169-70 Ag 1 '25
Factors in mine cost accounting. B: F. Tillson. flow sheet Eng & Min J 118:463-7 S 20 '24; Discussion. 118:858-60; 119:211-14 N 29 '24, Ja 31 '25
Practical mine-warehouse accounting. W: T. May. Eng & Min J 118:769-70 N 15 '24
Standardized accounting for metal mines. H. H. Miller. il Min Cong J 10:431-2 S '24

See also Coal mines and mining—Accounting

MINE air
Effective temperatures for still air conditions and their application to mining. F. C. Houghten, C. P. Yaglaglou and R. R. Sayers. charts plan U S Bur Mines Rep of Invest 2563:1-10 '24
Wetting down Colorado mines is a real problem. il Coal Age 25:386-7 Mr 13 '24

See also Mine dust; Mine gases; Mine ventilation

MINE buildings
Coal industry has awakened to the value of paint. A. F. Brosky. il diag Coal Age 25:901-6 Je 19 '24
Montreal mine's new engine house. L. D. Stewart. il plans Eng & Min J 120:10-11 Jl 4 '25
Underground locomotive barn at Kramer both capacious and convenient. diags Coal Age 26:446-7 S 25 '24
Why not house fire-truck driver at mines in same house as apparatus? il Coal Age 27: 433 Mr 19 '25

See also Coal houses; Concrete construction in mining; Mine shops; Mine stables; Mine washhouses; Miners' houses

MINE cars
Air resistance caused by mine cars in coal-mine entries. J. W. Paul, H. P. Greenwald and G. E. McElroy. J Fr Inst 198:833-4 D '24
Anti-friction bearings lower transportation costs from face to railroad car. F. H. Kneeland. il diags Coal Age 25:603-6 Ap 24 '24
Car resists air as much as 100 ft. or more of entry. Coal Age 27:214 F 5 '25
Changes in mine car design save men's hands. il Coal Age 27:845 Je 4 '25
Metal for mine cars. il Iron Age 115:1836 Je 25 '25
Mine car built in less than 3½ hours. O. F. Taylor. il Coal Age 26:714 N 20 '24
Mine car is equipped with one-piece drop bottom. diags Coal Age 25:932 Je 19 '24
New design for underground ore cars. L. L. Quigley. il diags Eng & Min J 118:57-8 Jl 12 '24
Specially designed motors for larry-car service. C. A. Atwell. il diag Coal Age 25:237-8 F 14 '24

See also Mine haulage

Couplings

How car couplings should be forged. Coal Age 27:756 My 21 '25
To prevent fouling, swivel mine-car hitchings should be lubricated. J. W. Powell. diags Coal Age 26:149 Jl 31 '24

Repair

Bush worn mine-car wheels with brass. il Coal Age 27:515-16 Ap 2 '25

Standards

Standardizing underground transportation. diags Min Cong J 10:135-41 Mr '24

MINE construction

See Chute gates; Coal tipples; Concrete construction in mines; Mine buildings; Mine doors; Mine shafts; Mine timbering

MINE doors

Construction of mine fire door. diags Eng & Min J 119:813 My 16 '25

Construction of wooden mine doors. diags Eng & Min J 117:171-2 Ja 26 '24

Self-acting mine doors. il Coal Age 25:898 Je 12 '24

MINE drainage

Cementing pipe in bore holes. Eng & Contr (G C) 64:426 Ag 19 '25

Explosion hazards incidental to unwatering coal mines. L. D. Tracy. U S Bur Mines Rep of Invest 2649:1-5 O '24 (typew); Same. Coal Age 26:723-4 N 20 '24

Long tunnels make extensive dip workings self-draining. F. H. Kneeland. il maps Coal Age 28:175-7 Ag 6 '25

Mine drainage and cost reduction. Min Cong J 11:223 My '25

La reconstitution des charbonnages du Nord et du Pas-de-Calais. A. Pawlowski. il diags Génie Civil 87:161-3 Ag 22 '25

See also Mine pumping; Mine water

Standards

Standardization of mine drainage. J: Brunschwyler. Min Cong J 10:165 Ap '24

MINE dust

Engineering-hygienic aspects of dust elimination in mines. D. Harrington. diags J Ind Hygiene 7:199-214 My '25; Abstract. Monthly Labor R 21:593-6 S '25

Even coal and non-siliceous dusts harmful to health. D. Harrington. Coal Age 25:417-18 Mr 20 '24

Quick determination of incombustible matter in coal and rock-dust mixtures in mines. A. C. Fieldner, W. A. Selvig and F. D. Osgood. [2d ed.] U S Bur Mines Tech Pa 144: 1-34 '24

See also Coal dust; Mine air; Mine explosions

MINE equipment

How to keep mining equipment in satisfactory operating condition at all times. J. F. MacWilliams. il Coal Age 25:843-4 Je 5 '24

List of permissible mining equipment. U S Bur Mines Rep of Invest 2720:1-6 N '25 (typew); Same. Min Cong J 11:645 D '25

Mechanical and electrical equipment problems. Min Cong J 11:329-32+ Jl '25

National exposition of mines and mine equipment. E. C. Porter. il Min Cong J 10:522-6 N '24

Permissible explosives, mining equipment and apparatus approved prior to January 1, 1924. L. C. Ilsley. U S Bur Mines Tech Pa 364:15-21 '24

Permissible explosives, mining equipment, and rescue apparatus approved prior to January 1, 1925. J. E. Crawshaw and others. U S Bur Mines Tech Pa 376:1-35 '25

Transportation and distribution of underground supplies at Miami copper company. A. J. McDermid and J. C. Conniff. il charts diags Min Cong J 11:555-8+ N '25

What America's mining industry buys. il Sales Management 9:97-8+ Jl 25 '25

See also Coal mines and mining—Equipment; Electricity in mining; Fans, Mine; Grizzlies; Mine cars; Mine doors; Mine hoisting; Mine management—Stores systems; Mine pumps; Mining machinery

Standards

Elimination of waste through standardization. C. B. Lakenan. Min Cong J 10:553+ D '24

Standardization number of Mining congress journal. il charts diags Min Cong J 10:165-87 Ap '24

Standardizing underground haulage equipment. W. V. DeCamp. Min Cong J 11:88 F '25

See also Excavating machinery—Standards

MINE examination

See Mine reports; Mine surveying; Prospecting

MINE explosions

Air-blasts in mines. T. A. Rickard. Eng & Min J 116:900-1 N 24 '23

Production of explosives in the United States during the calendar year 1923. W: W. Adams. U S Bur Mines Tech Pa 358:25-7 '24

See also Coal mines and mining—Accidents and explosions; Coal mines and mining—Safety measures; Mine accidents; Mine fires; Mine gases

MINE fans. See Fans, Mine

MINE fires

Drowning a mine fire in carbon dioxide. C: H. Strange. il diag plan Coal Age 28:453-8 O 1 '25

Gob fires. Engineering 119:771-2 Je 19 '25

Metal mine fires. Safety Eng 47:182 Ap '24

Organization for mine fire fighting in metal mines. B. O. Pickard. il Min Cong J 11:158-60 Ap '25

Protection of mine timbering from fire. H. E. Tufft. il Min Cong J 10:481-4 O '24

Small hose streams for fighting mine fires. L. D. Tracy and R. W. Hendricks. diags U S Bur Mines Tech Pa 330:1-23, pl 1-5 '25

When explosion occurs men should know what to do. Coal Age 28:566 O 22 '25

Would ventilate mine fire area with inert gas. J. J. Walsh. Coal Age 25:55 Ja 10 '24

See also Coal mines and mining—Fires and fire protection; Firedamp; Mine accidents; Mine gases; Safety lamps

MINE foremen

Anthracite foremen's examination, districts 1 and 2, 1923. Coal Age 24:746, 786 N 15-22 '23

Anthracite foremen's examination, districts 15 and 16, 1923. Coal Age 24:823 N 29 '23

See also Mine management

MINE gases

Critical study of the Burrell indicator for combustible gases in air. L. H. Milligan. il diags U S Bur Mines Tech Pa 357:1-40 '25

Safety-lamps giving warning of gas. W. M. Thornton. diags Engineering 117:716-17 My 30 '24

See also Carbon monoxide; Firedamp

MINE geologists. See Geologists, Mine

MINE haulage

Better methods and improved equipment increase production at Beech Bottom mine, Power, W. Va. A. F. Brosky. il diags Coal Age 25:521-7 Ap 10 '24

Biggest problem at Lynch is haulage of coal; how its large output moves to the tipple. il diag Coal Age 24:875-9 D 13 '23

Colliery at the British Empire exhibition. il diag plan Engineering 118:251-2, 338-42, 622 Ag 22, S 5, O 31 '24

Control of mine haulage equipment. G. Bright. Min Cong J 11:327-8 Jl '25

Equipment and operation of Inspiration's porphyry shaft. G: H. Booth. il diags Eng & Min J 119:476-85 Mr 21 '25

Has the continuous conveyor a place in metal mines? A. B. Parsons. il Eng & Min J 120:45-50 Jl 11 '25

Haulage equipment for mines. il Engineering 118:732-3 N 28 '24

Long incline and modern top works serve mountain mine in Virginia. J. W. Wilson. il Coal Age 28:107-11 Jl 23 '25

Material haulage and hoisting at the Inspiration Consolidated copper company. A. C. Stoddard. il Min Cong J 11:559-61 N '25

Mining methods and loading machines. Min Cong J 11:340-9 Jl '25

Notes on underground conveying. A. Reis. Cassier's Ind Management 11:301-4 My 29 '24

Safe practice in underground transportation. L. Eaton. il Min Cong J 11:470-2+ O '25

Saving time in gathering mine cars. A. Bennett. Coal Age 26:306 Ag 28 '24

Shaft bottom for mine designed to produce 13,000 tons daily. diag plan Coal Age 28: 284-5 Ag 27 '25

MINE haulage—*Continued*
These mines run on schedule as railroads do. A. F. Brosky. il diags plan Coal Age 28:555-60 O 22 '25
Train haulage computations. S: G. Lasky. Eng & Min J 119:651-2 Ap 18 '25
Le traînage par câbles dans les mines. Génie Civil 87:359 O 24 '25
Transportation and handling of ore and waste in the Magma mine. F: W. Snow. diags plan Min Cong J 11:562-3+ N '25
Underground management in bituminous mines. S. E. Thompson. Coal Age 24:957-8 D 27 '23
Wasted time at partings adds to cost of operation. il Coal Age 24:773-7 N 22 '23
When loaders, locomotives and tipplemen stand idle can haulage control afford them steady work? il Coal Age 24:811-14 N 29 '23
Why not connect butt with inbye face heading and speed up haulage? A. Shacikoski. diags Coal Age 26:196 Ag 7 '24
With hand shoveling 10 tons per man and 26 tons per loader already attained. A. F. Brosky. il plans Coal Age 25:197-203 F 7 '24

See also Coal tipples; Electric locomotives, Mine; Locomotives, Mine; Mine cars; Mine hoisting; Mine tracks; Ore transportation

Safety devices

Illinois experience helps make mine haulage safer. H. T. Bannister. il Coal Age 27:609-12 Ap 23 '25

MINE hoisting
Automatic cager speeds loading and unloading at shaft bottom. diags Coal Age 26:768-9 N 27 '24
Belt conveyors well suited for hoisting coal from shallow mines. A. F. Brosky. Coal Age 24:917-21 D 20 '23
Hauptschacht-gefässförderungen. L. Schütt. il diags Zeit Ver Deutsch Ing 68:665-71, 729-31 Je 28, Jl 12 '24
Homestake method of changing skips. F. E. Wormser. il diag Eng & Min J 117:1044-5 Je 28 '24
Material haulage and hoisting at the Inspiration Consolidated copper company. A. C. Stoddard. il Min Cong J 11:559-61 N '25
Twin-rope skip hoist works well. A. Allen and H. F. Hebley. il plans Coal Age 25:935-40 Je 26 '24
Unusual hoisting equipment at huge German headframe. W. Benedict. il Coal Age 25:130 Ja 24 '24

See also Dumping appliances; Hoisting machinery; Mine cars; Mine haulage; Mine skip wheels

MINE hoisting, Electric
Controlling an electric hoist by compressed air. H. V. Haight. il diags Eng & Min J 117:504-6 Mr 22 '24
Design of controllers for electrical winders and haulage; abstracts. A. West. Elec R (Lond) 96:796-7 My 15 '25; Electrician 95: 91 Jl 24 '25
Diamond portable electric mine haulage gear. il Engineering 120:409 O 2 '25
Electric winders for Thoresby colliery. il Elec R (Lond) 93:660 N 2 '23
Electrical features of Inspiration's new porphyry hoists. F. R. Grant. il Eng & Min J 119:637-42 Ap 18 '25
Electrically-driven colliery winding plant. il diags Elec R (Lond) 96:779-81 My 15 '25
Equipment and operation of Inspiration's porphyry shaft. G: H. Booth. il diags Eng & Min J 119:476-85 Mr 21 '25
420-h.p. electric winder. il diags Engineering 117:633-5 My 16 '24
Huge new hoist at Orient raises 13 tons of coal per trip. D. Kay. il diags Coal Age 27: 535-7 Ap 9 '25
Large electric hoist has air-operated contactors. J. E. Borland. il diag Coal Age 28: 524-7 O 15 '25
Large electric winder. il diags Engineer 139: 404-5, 408 Ap 10 '25
Mining methods at the United Verde. G: J. Young. il diags Eng & Min J 119:359-60 F 28 '25
Model colliery electric winding equipment at British Empire exhibition. il diags Engineer 138:65-8 Jl 18 '24
Modern tendencies in mine hoisting. F. L. Stone. il diags Min Cong J 11:217-22 My '25
Motor of 60-hp. hoists 1,200 tons of coal daily. J. H. Edwards. il diag Coal Age 28:251-3 Ag 20 '25
New Orient grooming to beat all records. il Coal Age 27:397 Mr 12 '25
Notes on mine hoisting. F. L. Stone and F. R. Grant. il Am Inst E E J 43:618-21 Jl '24; Discussion. 44:73 Ja '25
Novel application of dynamic braking on large slope hoist. R. W. McNeill. il diags Coal Age 25:35-9 Ja 10 '24
Portable electric hoists for ore scraping. il Eng & Min J 118:195-6 Ag 2 '24
Record coal mine electrically operated. il Elec W 85:518 Mr 7 '25
Safety for electric mine hoist equipment. Elec W 84:1055 N 15 '24
Some colliery power supply problems. J. F. Perry. Elec R (Lond) 96:674-5; Discussion. 676 Ap 24 '25
Unusual hoist is manually operated from a remote position. il Coal Age 27:727 My 14 '25

See also Electricity in mining

MINE inspection
Factory and mine inspection. Published in monthly numbers of Monthly labor review
Tipple inspection cuts down delays for Island Creek coal co. Coal Age 27:678 My 7 '25

MINE inspectors institute of America
Annual meeting, Cincinnati, Ohio, May 14-16. Min Cong J 10:279-80 Je '24
Annual meeting, Peoria, Ill., May 19-20. Coal Age 27:788-90 My 28 '25

MINE laundries. See Laundries, Mine

MINE lighting
Better underground lighting aids British mining. J. Cooper. Coal Age 28:666-7 N 12 '25
Electric lighting system for collieries. diag Engineer 139:496-7 My 1 '25
Electric lights for inside and outside service at the mines. diags Coal Age 26:412-13 S 18 '24
Illumination by light projectors at coal mines. E. Gealy. il Coal Age 24:807-10 N 29 '23
Lighting in mines; comparative costs of electrical and other methods. R. Rogerson. Electrician 95:241-2 Ag 28 '25

MINE management
Interpreting time-study data of mining operations. W. F. Dietrich. Eng & Min J 118:297-300 Ag 23 '24
Safety bonus in metal mining. F. C. Gregory. U S Bur Mines Rep of Invest 2617:1-3 Je '24 (typew); Same. Blast F & Steel Pl 12:498-9 N '24; Abstract. Monthly Labor R 19:655-7 S '24
Standardization in mining. C: A. Mitke. Min Cong J 10:433-4 S '24

See also Coal mines and mining—Management; Mine accounting; Mine foremen; Mine signals

Stores systems

Checking supplies underground at Pilares mine. E. Leland. flow sheets il diags Eng & Min J 120:165-9 Ag 1 '25
It is easy to waste money on mine supplies. N. Hutchings. Coal Age 24:952-3 D 27 '23
Transportation and distribution of underground supplies at Miami copper company. A. J. McDermid and J. C. Conniff. il charts diags Min Cong J 11:555-8+ N '25

MINE maps
Anaconda copper mining co.'s mapping practice. J. L. Hayes. il Eng & Min J 116:841-3 N 17 '23
Mapping cross-sections of orebodies. J. E. Harding. diag map Eng & Min J 117:767-70 My 10 '24

See also Mine surveying

MINE models
How to make hollow-block plaster models. W: B. McKinlay. il Eng & Min J 120:445-51 S 19 '25

MINE-mouth plants. See Electric plants (central stations)—Mine-mouth plants

MINE pumping
Air-lift pumping system quickly raises water from flooded anthracite mine areas. E. J. Gealy. il diags Coal Age 28:143-6 Jl 30 '25
Barrel scow for open pit pumps. L. C. Moore. il Eng & Min J 120:620-1 O 17 '25; Same. Coal Age 28:813 D 10 '25
Control of mine pumps. W. H. Lesser. Min Cong J 11:324 Jl '25
Controls that enable pumps, hoists and electric shovels to simulate human direction. F. L. Stone. il Coal Age 26:717-20 N 20 '24
Glen Alden uses all available pumps to unwater mines. il Coal Age 25:635-6 My 1 '24
Pump connection to borehole is removable. T: James. diag Coal Age 27:882 Je 11 '25
Pumping 2,200 feet in a single lift. E. F. Irving. il diags Eng & Min J 117:1041-3 Je 28 '24
With air lift flood water can be removed at a single inexpensive setting of equipment. E. J. Gealy. il diags Coal Age 26:868-70 D 18 '24

MINE pumps
Action of lead upon alloys. G: A. Drysdale. Foundry 52:349-50 My 1 '24
Advantages of centrifugal pump for coal-mine drainage. G. V. Woody. il Coal Age 24:885-7 D 13 '23
Explains why water of high sulphur content causes pump failures. J. S. O'Flaherty. il Coal Age 26:770 N 27 '24
Features that should be embodied in the design of plunger and centrifugal pumps. il Coal Age 25:11-14 Ja 3 '24
Marked progress being made by use of special alloy materials for mine-pump parts. E. J. Gealy. il Coal Age 27:251-4 F 12 '25
Metals must resist corrosion; pumps in mines handling acidified waters require special metals. G. A. Drysdale. Foundry 51:952-4 D 1 '23; Same. Min Cong J 10:47-9 Ja '24
No unnecessary pipe fittings in this pump station. J. H. Edwards. il diags Coal Age 26:651-4 N 6 '24
Use of acid-resisting metals. J. A. Malady and others. Min Cong J 11:329-30 Jl '25
Viking coal-mine gathering pump. il Coal Age 24:740 N 15 '23

Repair
Old centrifugal mine pump made good as new. J. F. MacWilliams. diags Coal Age 25:506 Ap 3 '24

Standards
Standardization of mine drainage. G. V. Woody. Min Cong J 10:166 Ap '24
What standardization of mine pumps means to owners and operators. F. L. Atwood. Min Cong J 10:51 Ja '24

MINE railroads. See Locomotives, Mine; Mine tracks

MINE reports
Analytical method of summarizing mining reports. F: C. Fearing. Eng & Min J 116: 713-18 O 27 '23; Discussion. 116:1036; 117:21-2 D 15 '23, Ja 5 '24
What will it cost? what will it earn? C: M. Means. Coal Age 24:915 D 20 '23

MINE rescue work
International first aid and mine rescue contest. il Min Cong J 11:477+ O '25
M.S.A. carbon monoxide self-rescue apparatus. diags Engineering 119:331 Mr 13 '25
Mine rescue apparatus. Engineering 117:307-8 Mr 7 '24
Mine-rescue communication system of the future. J. J. Jakosky. Coal Age 25:139-40 Ja 24 '24
Mine rescue experiments with airplanes. il Aviation 16:12-13 Ja 7 '24
Mine rescue work maintained by the Department of the interior. Safety Eng 47:145 Mr '24
Proto mine-rescue apparatus at the British Empire exhibition. il diags Engineering 117: 807-8 Je 20 '24
Radio to the rescue. J. Farrell. il Radio N 6: 14-15+ Jl '24
Recovery work after the Castlegate mine disaster, what it taught and exemplified. A. L. Murray. Coal Age 26:323-6 S 4 '24
Rescue of miners at Eagle mine, Gilman, Colorado. diags Eng & Min J 118:378 S 6 '24
Self-contained mine rescue oxygen breathing apparatus. D. J. Parker, G. S. McCaa and E. H. Denny. 139p U.S. Bur. of mines, Washington '23
Third mine-rescue maneuvers at Globe, Arizona. F. C. Gregory. diag U S Bur Mines Rep of Invest 2566:1-4 '24
Use of mine rescue apparatus in metal mines. Eng & Min J 117:59-60 Ja 12 '24
When explosion occurs men should know what to do. Coal Age 28:566 O 22 '25

See also Geophone; Mining engineering—Safety measures

MINE salting
Great diamond hoax; how a Colorado desert was salted with gems in 1872. T. A. Rickard. Eng & Min J 119:884-8 My 30 '25

MINE sanitation
Health hazards in the mining industry. R. R. Sayers. bibliog U S Bur Mines Rep of Invest 2660:1-14 D '24 (typew); Same abr. Nation's Health 7:161-4+ Mr '25

See also Mine ventilation

MINE shafts
Appareil automatique pour l'ouverture et la fermeture des recettes intermédiaires dans les bures. Vazeilles-Ollivier. diag Génie Civil 87:313 O 10 '25
Concreting a main hoisting shaft while mine continues in operation. J. W. Powell. diags plans Coal Age 25:612-13 Ap 24 '24
Ejected cement gives life and strength to mine structures. A. F. Brosky. Coal Age 24:955-6 D 27 '23
Lining a shaft with precast concrete. A. B. Dowell. il Coal Age 25:437 Mr 20 '24

See also Mine hoisting; Mine timbering; Mine ventilation; Shaft sinking

MINE shops
Here is a mine shop designed and equipped to fit its work. il Coal Age 27:578 Ap 16 '25
Systematic handling of motor parts reduces costs. il Coal Age 26:664 N 6 '24

MINE signals
Electric signaling devices. T. R. Hay. il Coal Age 24:953-5 D 27 '23
Underground signalling for mines by the ground-conduction or T.P.S. method. J. J. Jakosky. U S Bur Mines Rep of Invest 2576: 1-11 '24 (typew); Same. Coal Age 25:529-34 Ap 10 '24; Abstract. Safety Eng 47:250-2 My '24

MINE skip wheels
Design of skip wheels. diags Eng & Min J 119:729 My 2 '25

MINE stables
Build everything of concrete is O'Gara policy. R. D. Brown. flow sheet il diags plans Coal Age 25:557-62 Ap 17 '24

MINE subsidences
How far beyond excavated area is surface broken? diags Coal Age 25:543 Ap 10 '24
Hydraulic stowage at home and abroad. il Coal Age 25:355-7 Mr 6 '24
Subsidence, how far it extends, its depth and rapidity of movement. Coal Age 26:557 O 16 '24

MINE supplies. See Mine equipment; Mine management—Stores systems

MINE surveying
Borehole surveying by the Kiruna method. S. Lundberg. il diags Eng & Min J 117:690-3 Ap 26 '24
Surveying steep inclined shafts without an auxiliary telescope. E: H. Wisser. diag Eng & Min J 116:988 D 8 '23

See also Geophone; Surveying instruments

MINE taxation
Decentralization plan inaugurated by Internal revenue bureau. M. W. Kriegh. Min Cong J 11:15-16 Ja '25
Gross-proceeds mine tax approved by Montana election. Eng & Min J 118:907 D 6 '24
Inventory regulations and the income tax law. T. O. McGrath. Min Cong J 11:100-3 Mr '25
Mine taxation in Utah. G: J. Young. Eng & Min J 120:405-7 S 12 '25; Discussion. R. B. Brinsmade. 120:898-9 D 5 '25
Mining companies and the capital-stock tax. Eng & Min J 120:529-33 O 3 '25
Proceedings of the Conference on mine taxation held in conjunction with the 26th annual convention of the American mining congress, Milwaukee, Wis., Sept. 24-29, 1923. 172p Am. mining congress, Washington '23
Proceedings of the Conference on mine taxation held in conjunction with the 27th annual convention of the American mining congress, Sacramento, Calif., Sept. 29-Oct. 4, 1924. 149p American mining congress, Washington, D.C. '24
Responsibility for unworkable tax laws. M. W. Kriegh. Min Cong J 10:424-6 S '24
Tax problems in relation to reserves and depletion of natural resources. P. Armitage. Min Cong J 10:251-3 Je '24
Taxation of mines in Arizona. T. A. Rickard Eng & Min J 117:722-4 My 3 '24
Taxes overburden iron mines. L. P. Barrett. diag Iron Tr R 77:619-21+ S 10 '25

See also Coal—Taxation; Mine valuation

MINE telephone
Line radio and the effects of metallic conductors on underground communication. J. J. Jakosky and D. H. Zellers. diags U S Bur Mines Rep of Invest 2682:1-10 Ap '25 (typew); Excerpts. Am Inst E E J 44:600 Je '25
Telephone problems are solved by automatic system. il Coal Age 28:667 N 12 '25
Use of carrier current for communication purposes in collieries. E. L. Hann. Electrician 92:108 Ja 25 '24

See also Radio telephone in mines

MINE timber
Census report on mine timbers. Min Cong J 11:454 S '25; Excerpt. Eng & Min J 120: 338 Ag 29 '25
Coal mining consumes large percentage of timber. Coal Age 28:368 S 10 '25
Mine timber: its selection, storage, treatment and use. R. R. Hornor, H. E. Tufft and G: M. Hunt. il diags U S Bur Mines Bul 235:1-118, pl 1-17 '25
Quantity of timber used in soft-coal mines and how much will be needed in future. N. G. Alford. il Coal Age 25:563-5 Ap 17 '24

MINE timber, Recovery of
Close propping and small falls save timber. R. W. Lightburn. Coal Age 24:967 D 27 '23
Suggestions for recovering timber in anthracite mines. Coal Age 24:742, 863 N 15, D 6 '23

MINE timbering
Economy of preserving mine timbers. G. Sherman. Min Cong J 11:161-2+ Ap '25
Eighteen years' successful experience with treated mine timber at Pottsville, Pa. G: M. Hunt. il Min Cong J 11:440-1 S '25
Forepoling method used at Shattuck mine. diags Eng & Min J 118:856 N 29 '24
Mine timbering and preservatives in Europe. G: S. Rice. il Min Cong J 10:98-9 F '24
Mine timbering serious and costly problem. diags Min Cong J 10:99-101 F '24
Protection of mine timbering from fire. H. E. Tufft. il Min Cong J 10:481-4 O '24
Strength of mine timber. R. P. A. Johnson. il Eng & Min J 117:240-2 F 9 '24; Same abr. Min Cong J 10:96-7 F '24
Timber frame for underhand square setting. G: J. Young. diags Eng & Min J 120:61 Jl 11 '25
Timber preservation at the United Verde extension mining company. R. H. Marks. il Min Cong J 11:127-9; Discussion. 129-30 Mr '25
Timbering methods that will save lives, coal and lumber. J. Gray. Coal Age 24:933 D 20 '23
Treating mine timber pays. G. E. Tufft. il Eng & Min J 119:447 Mr 14 '25
Treating mine timbers with preservatives. G: M. Hunt. il diags Min Cong J 10:102-5 F '24
Trees help to reduce costs of coal mining. R. J. Arthur. il Coal Age 27:645-7 Ap 30 '25
When in doubt use treated timber. H. E. Tufft. il Eng & Min J 120:254 Ag 15 '25
Wolman salts for protecting timber against decay and spread of fire. J: G. Kreer. il Eng & Min J 118:714-15 N 1 '24
Wood preservation and reforestation advances reviewed by American mine institute. il Coal Age 25:491-2 Ap 3 '24

See also Mine shafts

MINE tipples. See Coal tipples

MINE tracks
Automatic switch thrower lessens risk in dumping at the tipple. il Eng & Min J 120: 551 O 3 '25
Automatic track switch. il Coal Age 24:780 N 22 '23
Device for extension of face tracks has backstop horns. C. P. Turley. diag Coal Age 28: 402 S 17 '25
Extension mine rails. H. P. Tompkins. Blast F & Steel Pl 13:41 Ja '25
5 switching layouts for mucking. diags Eng & Contr (G C) 63:1083-4 My 20 '25
Handy track switch. diags Eng & Min J 120: 376 S 5 '25
Means for extension and removal of rails at ends of rooms. T: J. Downing, jr. diag Coal Age 24:898 D 13 '23
Mine track work and materials. A. A. Culp. il Min Cong J 11:564-6 N '25
Slope switch controlled by operator stationed in hoist house. il Coal Age 26:915 D 25 '24
Track brake for car dump. C: Labbe. diag Eng & Min J 120:535 O 3 '25
Track shifting device. il Ind Management (Lond) 10:312 N 29 '23

Standards
Standardization of mine tracks and signals. C: H. Partington. Min Cong J 11:145 Ap '25
Standardize track, increasing speed and safety and lowering labor and repair costs. A. A. Culp. diags plans Coal Age 27:143-5 Ja 22 '25
Standardizing underground transportation. diags Min Cong J 10:135-41 Mr '24
Tracks for open-pit mines. W. R. Brown. Min Cong J 10:169-70 Ap '24

MINE valuation
American silver producers against proposal to revalue properties. Eng & Min J 120:109-12 Jl 18 '25
Discovery clause in income tax laws; its inequalities and abuses. A. H. Fay. Eng & Min J 117:243-5 F 9 '24
Internal revenue rules no general revaluation of silver mines necessary. P. Wooton. Eng & Min J 120:546 O 3 '25
Mineral valuation. H: Louis. 281p Charles Griffin & co., London '23
Revaluation of copper and silver mines by Treasury department. A. B. Parsons. Eng & Min J 119:537-8 Mr 28 '25
Revaluation of silver mines strongly opposed. M. W. Kriegh. Min Cong J 11:377+ Ag '25
Senate revenue investigators assail copper and silver valuations. M. W. Kriegh. Min Cong J 11:172-3 Ap '25
Should mines be subjected to a yearly valuation? C. P. McCormack. Coal Age 26:145-8 Jl 31 '24
Treasury department to revalue copper companies for re-taxing. Eng & Min J 119: 504 Mr 21 '25
Treasury representatives state case to silver producers. P. Wooton. Eng & Min J 120: 105-7 Jl 18 '25

See also Coal mines and mining—Valuation; Prospecting

MINE ventilation
Air shafts and air ways. J. J. Walsh. il Min Cong J 11:170 Ap '25
Cooling mine air—possibilities and limits. T: T. Read. Eng & Min J 120:569 O 10 '25
Each fan airs part of mine, but either can relieve the other. S. Tescher. il plan Coal Age 24:842-3 D 6 '23
Friction factors for metal mine airways. G. E. McElroy and A. S. Richardson. U S Bur Mines Rep of Invest 2663:1-3 Mr '25 (typew)
Gassy mine triply safeguards its ventilation. C: M. Schloss. il plan Coal Age 27:607-8 Ap 23 '25
How underground substations should be ventilated to obtain full rating. R. L. Grimes. diags Coal Age 25:21 Ja 3 '24
Investigation of the atmospheric conditions in coal mines by means of the kata-thermometer. H. M. Vernon and T. Bedford. bibliog J Ind Hygiene 6:281-90 N '24
Mine fan installation. G. E. Lyman. il Min Cong J 11:146-9 Ap '25
Mine ventilation and ventilators. M. H: Haddock. 337p Lippincott '24
Mine ventilation equipment. E. T. Lednum. il plan Min Cong J 10:185-7 Ap '24
Resistance of coal-mine entries to the flow of air. J. W. Paul, G. E. McElroy and H. P. Greenwald. U S Bur Mines Rep of Invest 2621:1-3 Jl '24 (typew); Same. Am Soc Heat & V E J 30:644-6 S '24; Same abr. Coal Age 26:441 S 25 '24
Resistance of coal-mine entries to the flow of air; resistance caused by timber sets and by cars in timbered entry. J. W. Paul, H. P. Greenwald, and G. E. McElroy. U S Bur Mines Rep of Invest 2671:1-4 Mr '25 (typew)
Some features of ventilating fans at 164 coal and metal mines. D. Harrington and M. W. von Bernewitz. U S Bur Mines Rep of Invest 2637:1-5 S '24 (typew)
Some kata-thermometer observations in Tonopah mines. R. S. Lewis. il diags Eng & Min J 117:363-6 Mr 1 '24
Suggestion for regulating flow of air at foot of intake shaft. H. Darney. diags Coal Age 25:579 Ap 17 '24
Theory and practice of mine ventilation. T: Bryson. 255p Longmans '24
Visitor's thoughts on ventilation practice. J: H. Veasey. Am Soc Heat & V E J 30:683-4 O '24

See also Brattice cloth; Coal dust; Fans, Mine; Firedamp; Mine air; Mine doors; Mine dust; Mine gases

Testing

Tests on the leakage of mine ventilating doors. J. W. Paul, G. E. McElroy and H. P. Greenwald. U S Bur Mines Rep of Invest 2602:1-3 My '24 (typew)

MINE washhouses
Change houses in the Lake Superior region. C. E. Kindall. diags U S Bur Mines Tech Pa 289:1-31, pl 1-12 '23
Company laundries and bathhouse for mining towns. W. F. Bovard. diag plan Coal Age 25:244 F 14 '24
New dry at the Montreal mine. L. D. Stewart. il diags plan Eng & Min J 119:598-600 Ap 11 '25

MINE water
Accelerated electrolytic corrosion test. R. J. Anderson and G: M. Enos. il diag Am Soc T M Pro 24 pt 2:735-52; Discussion. 753-66 '24
Composition and corrosive effect of mine water. Coal Age 25:365 Mr 6 '24
Concrete-lined pipes resist acidulous mine water. C. H. S. Tupholme. Coal Age 26: 548-9 O 16 '24
Corrosion-resistant alloys for use in acid mine water. R. J. Anderson and G: M. Enos. Am Soc T M Pro 24 pt 2:259-72 [bibliog. p. 272] '24
Court decision protects water supply against mine drainage. A. L. Fales. Munic & Co Eng 68:276-7 Je '25
Germanium in smithsonite and mine waters, from the Hudson mine, Livingston county, Kentucky. J: H. Müller. Ind & Eng Chem 16:604-5 Je '24
How acid mine water affects corrosion-resisting metals. R. J. McKay. Chem & Met Eng 30:228-9 F 11 '24
Important stream pollution decision in Pennsylvania. Paper Tr J 79:43-4 N 13 '24
Melcroft coal company case. Am Water Works Assn J 13:675-7 Je '25; Same. Eng & Contr (W W) 64:71-2 Jl 8 '25
Mine water and its treatment. J. R. Campbell. Min Cong J 10:43-6 Ja '24; Discussion. C: Haydock. 10:133-4 Mr '24
Pennsylvania water supplies protected against coal mine wastes. Eng N 94:901 My 28 '25
Pumping mine water promptly reduces corrosion of metals. J. A. Shaw. Coal Age 28: 215 Ag 13 '25
Results of study of corrosive action of mine water. Coal Age 25:402 Mr 13 '24
Water shed protection at Altoona, Pa. J. W. Fortenbaugh. Eng & Contr (W W) 61:1322-3 Je 11 '24

See also Mine drainage: Mine pumping

MINERAL and allied industries of California
Mineral and allied industries of California organize. Iron Age 115:1779 Je 18 '25

MINERAL industries
Marketing and the mining industries. G: J. Young. Eng & Min J 118:971-5 D 20 '24
Mineral industry. v. 32, 1923. 887p McGraw-Hill '24
Mineral industry. v. 33, 1924. G. A. Roush and A. Butts, eds. 887p McGraw-Hill '24
Mining industries especially are in need of trade associations. G. H. Dorr. Coal Age 26:14-16 Jl 3 '24
Report of the proceedings of the 26th annual convention of the American mining congress, Milwaukee, Sept. 24-29, 1923. 795p American mining congress, Washington '24
World's mineral production. Economist 100: 442-3 Mr 7 '25

See also Iron industry and trade; Metal trade; Metallurgy; Mineralogy; Mines and mineral resources; Mining industry and finance; Petroleum industry and trade; Potash; Sodium nitrate

California

California mineral conference held at Los Angeles, May 15-16. Min Cong J 11:363-4 Jl '25

Canada

Development of chemical, metallurgical, and allied industries in Canada in relation to the mineral industry. A. W. G. Wilson. 329p Canada Dept. of mines, Ottawa '24
Progress shown in mineral industry. Can Chem & Met 9:122-3 My '25

Ontario

Ontario's mineral industry flourishing. Can Chem & Met 8:246-7 O '24

Russia

Bergwerks- und hüttenindustrie Russlands 1913 bis 1923. J. Ferfer. Stahl & Eisen 44: 1064-7, 1098-1100 Ag 28-S 4 '24

United States

Balance sheets for mine and smelter production of domestic copper, lead, and zinc. C. E. Siebenthal. Econ Geol 20:83-96 Ja '25
Cyclical fluctuations in the volume of mining, 1913-23. E. Boody. charts R Econ Statis 6:77-92 Ap '24
Foreign trade in non-ferrous metals and minerals; 1922 and 1923 compared. F. E. Wormser. Eng & Min J 117:131 Ja 19 '24
Foreign trade in the metals and minerals in 1924. F. E. Wormser. Eng & Min J 119:135 Ja 17 '25
Marketing of metals and minerals. J. E: Spurr and F. E. Wormser, eds. 674p McGraw-Hill '25
Mineral output in the United States in 1923. Soc Chem Ind J (Chem & Ind) 44:430 Ap 24 '25
Mineral values reduced in 1924. Iron Tr R 77: 624 S 10 '25
Trade statistics and the non-ferrous metals. F. E. Wormser and E: H. Robie. Eng & Min J 116:1109-11 D 29 '23

MINERAL industries—United States—*Cont.*
What the Geological survey is doing for the mining industry. G: O. Smith. il Min Cong J 10:456-7 O '24

MINERAL lands
Conflicts between agricultural entrymen and mining claimants. J. H. Favorite. Eng & Min J 118:978-9 D 20 '24
Mining industry and the general land office. W: Spry. Min Cong J 10:539-40+ D '24
Relations of the federal government to mining. H. F. Bain. Min Cong J 11:6-11 Ja '25
What right has a prospector in the Warren mining district? Eng & Min J 120:62, 83 Jl 11-18 '25

See also Coal lands; Gas, Natural; Mines and mineral resources; Mining law; Oil lands; Ore deposits; Petroleum laws and regulations

MINERAL oils. See Petroleum

MINERAL wool
Heat-insulating efficiencies of some diatomaceous earth products and slag wool. A. T. Green and H. Edwards. bibliog Gas J (Lond) 171:sup23-7 Jl 22 '25
Slag wool as a building insulator. diags Sheet Metal Worker 15:861-2 D 5 '24

MINERALOGICAL chemistry
Chart showing the chemical relationships in the mineral kingdom. P. C. Putnam. 31p [bibliog. p. 13] Wiley '25

MINERALOGY
Contributions to Canadian mineralogy, 1923. 57p Univ. of Toronto press, Toronto '23
Contributions to Canadian mineralogy, 1924. (Geol. ser. no. 17) 68p Univ. of Toronto, Toronto '24
Determination of opaque ore-minerals by X-ray diffraction patterns. P. F. Kerr. diags Econ Geol 19:1-34, pl 1-2 Ja '24
Diagnostic value of color in polished sections. S. B. Talmage. il Econ Geol 20: 168-80 Mr '25
New method of preparing briquetted mineral grains for microscopic study. R. E. Head. Eng & Min J 119:889-90 My 30 '25
Origin of veins of fibrous minerals. S. Taber. il Econ Geol 19:475-86 Ag '24
Quantitative standards for hardness of the ore minerals. S. B. Talmage. il diags Econ Geol 20:531-53 S '25
Relation of hardness to the sequence of the ore minerals. G. Gilbert. Econ Geol 19:668-73 N '24
Rôle of heavy minerals in the Coalinga tertiary formations. R. D. Reed. diags Econ Geol 19:730-49 D '24
Some methods for heavy mineral investigations. R. D. Reed. diag Econ Geol 19:320-37 Je '24
Spectroscopy applied to mineral determination. G. V. Douglas. Econ Geol 19:766-8 D '24
X-ray determination of minerals. W. J. Mead and C. O. Swanson. Econ Geol 19:486-9 Ag '24

See also Anisotropism; Coal; Crystallography; Feldspar; Geology; Graphite; Metals; Mica; Mines and mineral resources; Petroleum; Precious stones; Rocks

MINERALS
New uses of nonmetallic minerals. W. M. Myers. U S Bur Mines Rep of Invest 2587: 1-7 Mr '24 (typew); Abstract. Brick & Clay Rec 64:739-40 My 13 '24

See also Carnegieite; Coal; Feldspar; Garnet; Geology; Graphite; Ludwigite; Metals; Mineral lands; Mineralogy; Mines and mineral resources; Ores; Petroleum; Precious stones; Quartz; Rocks; Schists; Searlesite

MINERS
Interpreting time-study data of mining operations. W. F. Dietrich. Eng & Min J 118: 297-300 Ag 23 '24
Law of mines and the freedom of the miner. T. A. Rickard. Eng & Min J 118:891-9 D 6 '24
Principles of industrial cooperation outlined. Min Cong J 10:11-12 Ja '24

See also Coal miners; Mine foremen; Mine washhouses; Miners' houses; Mining towns; United mine workers of America

Diseases and hygiene
Engineering-hygienic aspects of dust elimination in mines. D. Harrington. diags J Ind Hygiene 7:199-214 My '25; Abstract. Monthly Labor R 21:593-6 S '25
Health conservation among miners in foreign countries. R. R. Sayers. Safety Eng 47:174-6 Ap '24; Same cond. Nation's Health 6:346-7 My '24
Health hazards in the mining industry. R. R. Sayers. bibliog U S Bur Mines Rep of Invest 2660:1-14 D '24 (typew); Same abr. Nation's Health 7:161-4+ Mr '25; Abstract. Monthly Labor R 20:612-14 Mr '25
Medical care of South African natives on the gold mines of the Witwatersrand. L: E. Hertslet. il J Ind Hygiene 6:291-305 N '24
Report of miners' beat knee, beat hand, and beat elbow. E. L. Collis and T. L. Llewellyn. J Ind Hygiene 7:sup53-6 Ap '25
Salt water to avoid fatigue. J. Court. Coal Age 26:620 O 30 '24

See also Coal miners—Diseases and hygiene; Mine dust; Miners' nystagmus; Miners' phthisis

France
Old-age and invalidity pensions of French miners. Monthly Labor R 18:879-80 Ap '24
Production of French coal and iron mines and output per worker, April to June, 1924. Monthly Labor R 20:68-9 Ja '25
Wages of miners and metal workers in France, 1920 to 1924. Monthly Labor R 19:395-6 Ag '24

Great Britain
Inspection of mines in Great Britain in 1923. Int Labour R 9:95-8 Ja '24

Illinois
Co-operative chain stores of the Illinois miners. C. E. Warne. Univ J of Business 2:310-27, 432-54 Je-S '24

Japan
Working conditions of Japanese workers. Monthly Labor R 18:498-9 Mr '24

Netherlands
Mine workers' wage rates in the Netherlands, April, 1924. Monthly Labor R 19:576 S '24

United States
Americanization of miners, and others. T. A. Rickard. Eng & Min J 117:409-10 Mr 8 '24
Homestake mine example in industrial cooperation. E. F. Irwin. il Min Cong J 10:79-80 F '24
Industrial cooperation at the Copper Queen branch of the Phelps Dodge corporation. H. C. Henrie. il Min Cong J 11:265-8 Je '25
Labor and wages. A. B. Parsons. Eng & Min J 119:134 Ja 17 '25
Labor situation during 1923. A. B. Parsons. Eng & Min J 117:128 Ja 19 '24
Premium rates for compensation insurance for underground metal-mine workers. B. O. Pickard. U S Bur Mines Rep of Invest 2607:1-9 My '24
United Verde copper company's bonus methods. W. V. DeCamp. Min Cong J 10:541-9 D '24
Wage and board rates in western mining districts, April 1, 1924. Monthly Labor R 19: 383-4 Ag '24
Wages and hours of labor in metalliferous mines. Monthly Labor R 20:1033-8 My '25
Workmen's compensation and metal mining. Min Cong J 10:227-8 My '24

Utah
Welfare and safety in connection with mining in Utah. A. L. Murray. U S Bur Mines Rep of Invest 2704:1-7 S '25 (typew)

MINERS' houses
Few changes in usual house plans afford miner comfort. P. A. Arnold. plans Coal Age 25:572-3 Ap 17 '24
Industrial welfare work with particular relation to housing. G. H. Prosser. il Blast F & Steel Pl 11:605-6 N '23
Kramer mine houses its stay-at-home employees. A. F. Brosky. il diags plans Coal Age 26:463-7 O 2 '24
"Paint up" has cash meaning in mine towns. F. L. Adams. il Coal Age 27:603-6 Ap 23 '25

MINERS' lamps. See Safety lamps

MINERS' nystagmus
Miners' nystagmus; its prevention and cure; abstract. T. L. Llewellyn. J Ind Hygiene 7:sup28-9 Mr '25
Nystagmus the result of deficient illumination. T. L. Llewellyn. Elec R (Lond) 94: 1024 Je 20 '24

MINERS' phthisis
Report of the Miners' phthisis medical bureau for the twelve months ending 31 July, 1923; abstracts. J Ind Hygiene 7:sup20-2 F '25; Monthly Labor R 20:883-4 Ap '25

MINERS' washhouses. See Mine washhouses

MINES and mineral resources
Deepest mines. T. T. Reed. Sci Am 129:385 D '23
Economic utilization of natural resources. H. A. C. Jenison. il Min Cong J 10:351-4 Ag '24
Non-metallic minerals; occurrence, preparation, utilization. R. B. Ladoo. 686p McGraw-Hill '25
Practical need for international conservation of minerals. C. E. Julihn. Ann Am Acad 112:189-90 Mr '24
Survey of the world's mineral resources in the time of Christ. S. H. Ball. map Eng & Min J 117:367-9 Mr 1 '24

See also Aluminum; Asbestos; Bauxite; Coal mines and mining; Copper mines and mining; Diamond mines and mining; Diamonds; Geochemistry; Geology; Gold mines and mining; Hydraulic mining; Iron mines and mining; Lead mines and mining; Lignite; Magnesite; Manganese; Mercury; Metals; Mine accidents; Mine accounting; Mine ventilation; Mineral lands; Miners; Mining engineering; Mining industry and finance; Mining law; Mining machinery; Molybdenum; Nickel ores; Oil shales; Ore deposits; Ore sampling; Ores; Petroleum; Petroleum supply; Phosphates; Potash; Prospecting; Quarries and quarrying; Salt; Salt domes; Salt mines and mining; Shale; Silver mines and mining; Slate; Smelting; Stone; Sulfur; Talc; Tantalum; Tin; Tin mines and mining; Tungsten; Zinc; Zinc mines and mining; Zinc ores

Government ownership
Nationalizing our natural resources. G: H. Bailey. Min Cong J 10:435-7 S '24
Le travail à travers les âges et la nationalisation des mines. C. Bartuel, H. Rullière and C. Réal. 393p G. Doin, Paris '24

See also Coal mines and mining—Government ownership

Statistics
Estimate of the world's mineral reserves. Eng & Min J 116:853 N 17 '23

Alabama
Bauxite deposits of southeastern Alabama. R. E. Rettger. bibliog diags map Econ Geol 20:671-86 N '25
Mineral industries of Alabama. E. A. Smith. Manuf Rec 86:350-4 pt 2 D 11 '24

Alaska
Alaskan nickel minerals. A. F. Buddington. Econ Geol 19:521-41, pl 9 S '24
Alaska's mineral output less in 1924. Eng & Min J 120:419 S 12 '25
Mineral resources of Alaska; report on progress of investigations in 1922. A. H. Brooks and others. map U S Geol S Bul 755:1-222, pl 1-12 [bibliog. p. i-xv] '24
Mineral resources of Alaska; report on progress of investigations in 1923. A. H. Brooks and others. diags maps U S Geol S Bul 773: 1-267, pl 1-6 [bibliog. p. i-xv] '25
Mining in Alaska in 1923. il Min Cong J 10: 39-41 Ja '24
Ruby-Kuskokwim region, Alaska. J. B. Mertie, jr. and G. L. Harrington. il maps U S Geol S Bul 754:1-129, pl 1-4 '24

See also Coal mines and mining—Alaska; Copper mines and mining—Alaska; Gold mines and mining—Alaska; Petroleum—Alaska

Alberta

See Coal—Alberta; Gas, Natural—Alberta

Alsace

See Potash—Alsace

Argentina

See Petroleum—Argentina

Arizona
Arizona—producer of mineral wealth. il Min Cong J 10:399-400 S '24
Geology and ore deposits of the Aravaipa and Stanley mining districts, Graham county, Arizona. C. P. Ross. diags map U S Geol S Bul 763:1-120, pl 1-13 '25
Ore deposits of the Saddle Mountain and Banner mining districts, Arizona. C. P. Ross. diags map plan U S Geol S Bul 771:1-72, pl 1-17 '25
Origin of certain rich silver ores near Chloride and Kingman, Arizona. E. S. Bastin. diags maps U S Geol S Bul 750-B:17-39 '24
Prospecting for minerals in Arizona. Min Cong J 11:545-6 N '25

See also Copper mines and mining—Arizona; Geology—Arizona

Arkansas
Arkansas' mineral resources. G: C. Branner. maps Manuf Rec 86:356-60 pt 2 D 11 '24

See also Petroleum—Arkansas

Australasia
Australasia mining in 1924. P: G. Tait. Eng & Min J 119:128-9 Ja 17 '25
Australasia; 1923 a year of moderate success. P: G. Tait. Eng & Min J 117:125 Ja 19 '24

Australia
Mount Isa silver-lead field Australia's newest find. A. W. Newberry. il maps Eng & Min J 118:165-71 Ag 2 '24

See also Petroleum—Australia

Belgium

See Coal mines and mining—Belgium

Bolivia
Mining activities in Bolivia. Eng & Min J 117:609 Ap 12 '24
Tin deposits of Chacaltaya, Bolivia. W. Lindgren. Econ Geol 19:223-8 Ap '24

Borneo

See Petroleum—Borneo

Brazil
Drill diamonds, carbons or carbonados; their occurrence in Brazil. F. L. Garrison. il map Eng & Min J 118:491-5 S 27 '24
Why mining languishes in Brazil. T. T. Read. il Eng & Min J 117:4-12 Ja 5 '24

See also Petroleum—Brazil

British Columbia
British Columbia's base-metal production increases. R. Dunn. il Eng & Min J 117:28-9 Ja 5 '24
Marked increase in mineral production of British Columbia. Eng & Min J 120:630 O 17 '25
Mining and metallurgy in British Columbia. Can Chem & Met 8:225, 298; 9:21 S, D '24-Ja '25

MINES and mineral resources—British Columbia—*Continued*
Notes on silver-lead deposits of Slocan district, British Columbia, Canada. A. M. Bateman. Econ Geol 20:554-72 S '25
What British Columbia offers the prospector. A. W. Davis. il map Eng & Min J 117:437-9 Mr 15 '24

See also Copper mines and mining—British Columbia; Gold mines and mining—British Columbia

British Guiana

Bauxite deposits of British Guiana. L. T. Emory. il map Eng & Min J 119:686-9 Ap 25 '25

See also Diamond mines and mining—British Guiana

California

Andalusite in California. J: Melhase. il Eng & Min J 120:91-4 Jl 18 '25; Discussion. A. M. Strong. 120:899 D 5 '25
California mineral conference at Los Angeles. Eng & Min J 119:902-3 My 30 '25
California mineral industry. L. L. Root. il Min Cong J 10:389-91 S '24
California turns attention to industrial mineral development. B. F. Hews. il Min Cong J 11:179-81 Ap '25
California's mineral industries in 1924. Min Cong J 11:541 N '25
Magnesite mining at Red mountain, Calif. G: J. Young. flow sheet il diag Eng & Min J 120:178-80 Ag 1 '25
Mineral production in California in 1924. Min Cong J 11:455 S '25
Mineralization in the vicinity of Randsburg. C. D. Hulin. il maps Eng & Min J 119:407-11 Mr 7 '25
Possibilities of the Calico mining district. F. B. Weeks. il map Eng & Min J 119:757-63 My 9 '25

See also Gold mines and mining—California; Petroleum—California; Petroleum industry and trade—California

Canada

Canada; regional summaries. R. E. Hore. Eng & Min J 117:120-1 Ja 19 '24
Canada's mineral production in 1923. Econ W n s 27:52 Ja 12 '24
Canada's mineral production increases. S. J. Cook. Eng & Min J 119:332 F 21 '25
Canadian institute of mining and metallurgy 27th annual meeting, Ottawa, March 4-6. Can Chem & Met 9:81-8 Ap '25
Canadian mineral output for 1924. Eng & Min J 119:463 Mr 14 '25
Canadian mineral production $209,516,465 for 1924. Eng & Min J 119:890 My 30 '25
Chemical and metallurgical industries in Canada. Engineering 119:53 Ja 9 '25
Copper deposits of arctic Canada. G: M. Douglas. il map Eng & Min J 118:85-9 Jl 19 '24
Economic aspect of hydro-metallurgical development in relation to Canadian natural resources. H. Freeman. Can Chem & Met 8:217-18 S '24
Metal and mineral production in Canada in 1924. Econ W n s 29:124 Ja 24 '25
Mineral production in Canada in the first half of 1924. Econ W n s 28:411 S 20 '24
Rare element minerals of Canada. H. V. Ellsworth. Can Chem & Met 8:261-3 N '24
What the Mines branch plans to do during this season. Can Chem & Met 8:190-1 Ag '24

See also Gold mines and mining—Canada; Iron ores—Canada; Gas, Natural—Canada; Petroleum—Canada; Petroleum industry and trade—Canada

Central America

Central America; important mining developments. C: Butters and R. S. Botsford. Eng & Min J 119:124 Ja 17 '25

Chile

Chalcophyllite from Chile. E. V. Shannon. Am J Sci 5th ser 7:31-6 Ja '24

See also Copper mines and mining—Chile; Sodium nitrate

China

Geology of prospecting: survey and reports. W. H. Emmons. map Eng & Min J 117:114-15 Ja 19 '24
Mining tungsten ore at outposts of steel. G. F. Creveling. il map Iron Tr R 74:1112-15 Ap 24 '24

See also Coal—China; Iron ores—China

Colombia

See Coal mines and mining—Colombia; Petroleum—Colombia

Colorado

Carnotite and tyuyamunite and their ores in Colorado and Utah. W. F. Hillebrand. Am J Sci 5th ser 8:201-16 S '24
Growth and possibilities of Colorado minerals. il Min Cong J 10:392-3 S '24
New and known minerals from the Utah-Colorado carnotite region. F. L. Hess. U S Geol S Bul 750:63-78, pl 4-11 '25
Observations on the rich silver ores of Aspen, Colorado. E. S. Bastin. il U S Geol S Bul 750—C:41-62, pl 3 '24
Ouray: famous for the Camp Bird. C. R. Wilfley. il map Eng & Min J 120:570-5 O 10 '25

See also Carnotite; Coal—Colorado; Coal mines and mining—Colorado; Gas, Natural—Colorado; Geology—Colorado; Gold mines and mining—Colorado; Oil shales—Colorado; Petroleum—Colorado; Silver mines and mining—Colorado

Cuba

Cuba; mining activities in 1923. C. M. Weld. Eng & Min J 117:121 Ja 19 '24
Cuba; mining activities in 1924. C. M. Weld. Eng & Min J 119:122-3 Ja 17 '25

Dutch Guiana

Prospecting for bauxite in Dutch Guiana. L. T. Emory. il Eng & Min J 118:45-8 Jl 12 '24

Egypt, Ancient

Copper and gold mines of the ancient Egyptians. T. A. Rickard. il map Eng & Min J 119:1005-12 Je 20 '25

England

Radium from a Cornish mine. M. Gregory. Engineer 139:572 My 22 '25

Florida

Florida's rare minerals won the world war. G: M. Chapin. il Manuf Rec 85:73-7 F 21 '24
Mineral resources of Florida. H. Gunter. il Manuf Rec 86:363-6 pt 2 D 11 '24
Phosphates of Florida. G: M. Chapin. il Manuf Rec 87:76-8 My 14 '25

France

See Coal—France; Coal supply—France; Iron ores—France; Petroleum—France

Georgia

Amphibole asbestos deposits at Hollywood, Ga.; their development and treatment. L. B. Reifsneider. Eng & Min J 119:606-8 Ap 11 '25
Directory of commercial minerals in Georgia and Alabama along the Central of Georgia railway. 154p Central of Georgia railway co., Savannah '23
Improved way of washing ocher. A. H. Hubbell. il diag Eng & Min J 118:336-8 Ag 30 '24
Little known mineral storehouse in Georgia; Graves mountain. Eng & Min J 118:732 N 8 '24
Mineral resources of Georgia. W. S. McCallie. il Manuf Rec 86:369-73 pt 2 D 11 '24
Mining ocher at Cartersville, in Georgia. W. M. Weigel. il Eng & Min J 116:854-6 N 17 '23

Georgia, Transcaucasia

Potentialities of Georgian manganese. V: C. Svimonoff. map Eng & Min J 120:690 O 31 '25

MINES and mineral resources—*Continued*

Germany

German production of non-ferrous minerals. Eng & Min J 120:174 Ag 1 '25

See also Coal—Germany; Coal supply—Germany; Gold mines and mining—Germany; Petroleum—Germany

Gold Coast, Africa

Mineral and water-power resources of the Gold Coast. Engineering 120:484-5 O 16 '25

Great Britain

Empire mining and metallurgy. Engineer 137: 624-5, 660-1 Je 6-13 '24; Engineering 117:739-42, 759-62 Je 6-13 '24

Mineral resources of the British Empire. W. H. L. Long. Econ W n s 28:80-1 Jl 19 '24

Minerals of the Empire; British Empire exhibition, Wembley, 1924. 328p Great Britain Imperial mineral resources bureau, London '24

Non-ferrous metals and other minerals. N. M. Penzer. 264p [bibliog. p. 221-55] E. Benn, ltd., London '24

Our mineral statistics. Engineer 136:534-5 N 16 '23

Our mining statistics. Engineer 139:108-9 Ja 23 '25

See also Coal mines and mining—Great Britain; Coal supply—Great Britain; Petroleum—Great Britain

Idaho

Deformation in ores, Coeur D'Alene district. Idaho. W. A. Waldschmidt. il Econ Geol 20:573-86 S '25

Early days of the Coeur D'Alene mining district. E. Thomas. il Min Cong J 10:404-7 S '24

Ford motor and General motors companies help revive Idaho mining. Eng & Min J 119:455 Mr 14 '25

Future of Idaho as a mineral producer. F. A. Thomson. il Min Cong J 11:536-8 N '25

Ore zones of Idaho. Eng & Min J 120:361-2 S 5 '25

Zonal distribution of gold, silver, lead, and copper ores in Idaho. F. A. Thomson and F. McGonigle. map Eng & Min J 120:216-18 Ag 18 '25

See also Copper mines and mining—Idaho; Gold mines and mining—Idaho; Petroleum—Idaho

Illinois

Economic and geologic papers. 338p Illinois Geol. survey, Urbana '23

Modern geology and its contribution to engineering. M. M. Leighton. il diags W Soc E J 28:491-506 N '23; Same (pt. 2). Eng & Contr (Ry) 62:623-6 S 17 '24

See also Coal—Illinois; Coal mines and mining—Illinois; Petroleum—Illinois

India

India; mining in 1924. W. A. Doman. Eng & Min J 119:130-1 Ja 17 '25

India's mineral wealth. J: C. Brown. 121p Oxford '23

Manganese mining in India. E. W. T. Slater. il Eng & Min J 118:1017-18 D 27 '24

See also Gold mines and mining—India

Italy

See Iron mines and mining—Italy; Lead mines and mining—Italy

Japan

Cupriferous pyritic deposits, Hitachi mines, Japan. M. Watanabé and W. R. Landwehr. il map Econ Geol 19:434-54 Ag '24

Early mining in Japan. K. Nishio. Eng & Min J 118:1013-16 D 27 '24

See also Petroleum—Japan

Kansas

See Lead mines and mining—Oklahoma-Kansas district; Petroleum—Kansas; Zinc mines and mining—Oklahoma-Kansas district

Kentucky

Outlook for mineral development in Kentucky. W. R. Jillson. Manuf Rec 86:374-5 pt 2 D 11 '24

Kongo, Belgian

Belgian Congo in 1923. S. H. Ball. Eng & Min J 117:127 Ja 19 '24

Belgian Congo in 1924. S. H. Ball. Eng & Min J 119:127-8 Ja 17 '25

Mineral resources of the Belgian Congo. J. G. Whiteley. Econ W n s 29:620-1 My 2 '25

Louisiana

Louisiana's mineral resources; past and present. H: V. Howe. Manuf Rec 86:378-81 pt 2 D 11 '24

See also Gas, Natural—Louisiana; Petroleum—Louisiana

Madagascar

Les minerais radioactifs de Madagascar. diag Génie Civil 84:140-1 F 9 '24

Manchuria

Magnesite deposits of Manchuria. K. Niinomy. il Econ Geol 20:25-53 Ja '25

Mexico

Ahumada lead mine and the ore deposits of the Los Lamentos range, in Mexico. T. A. Rickard. il map plan Eng & Min J 118:365-73 S 6 '24

Charcas, an ancient district in San Luis Potosi. C: L. Bradbury. il Eng & Min J 116: 1031-4 D 15 '23

Mexico; outlook for 1925 promises improvement over 1924. W. M. Drury. Eng & Min J 119:123 Ja 17 '25

Mexico; regional summaries. W. M. Drury. Eng & Min J 117:122 Ja 19 '24

Mexico's metal production greater in 1924. Eng & Min J 119:660 Ap 18 '25

Mexico's metal production increased in 1923. Eng & Min J 117:646 Ap 19 '24

Supergene enrichment of copper below a lean pyritic zone. C: H: White. Econ Geol 19:724-9 D '24

Taxco, in Guerrero, Mexico. R. B. Brinsmade. il map Eng & Min J 119:1050-4 Je 27 '25

See also Copper mines and mining—Mexico; Lead mines and mining—Mexico; Petroleum—Mexico; Silver mines and mining—Mexico

Minnesota

See Iron mines and mining—Minnesota; Iron ores—Minnesota

Mississippi

Bauxite in northeastern Mississippi. E. F. Burchard. diags maps U S Geol S Bul 750—G:101-48 '25

Mineral resources of Mississippi. E. N. Lowe. Manuf Rec 86:389-90 pt 2 D 11 '24

Missouri

Bituminous sandstone area of southwest Missouri. C. W. Hall. Eng & Min J 118:1011-12 D 27 '24

Mineral resources of Missouri. H. A. Buehler. il Manuf Rec 86:393-6 pt 2 D 11 '24

See also Coal—Missouri; Mines and mineral resources—St Louis district

Montana

Minerals produced in Montana in 1924. Min Cong J 11:456 S '25

Scobey lignite field, Valley, Daniels, and Sheridan counties, Montana. A. J. Collier. diag map U S Geol S Bul 751—E:157-230, pl 21-9 '24

Treasure state—Montana. C. W. Towne. il Min Cong J 10:401-2 S '24

See also Petroleum—Montana

MINES and mineral resources—*Continued*

Nevada

Deposits of magnesia alum near Fallon, Nevada. D. F. Hewett. maps U S Geol S 750:79-86 '25

Future of Nevada as a mineral producer. J: A. Fulton and W. S. Palmer. Min Cong J 11:539-40+ N '25

Geology and ore deposits of the Manhattan district, Nevada. H: G. Ferguson. il diags maps U S Geol S Bul 723:1-163, pl 1-18 '24

Mining districts and mineral resources of Nevada. F. C. Lincoln. 295p Nevada newsletter pub. co., Reno '23

Mining mirabilite near Wabuska, Nev. J: Melhase. il map Eng & Min J 119:965-7 Je 13 '25

Nevada mineral output, 1924. Min Cong J 11:457 S '25; Eng & Min J 120:452 S 19 '25

Nickel ores from Key West mine, Nevada. W. Lindgren and W. M. Davy. il Econ Geol 19: 309-19, pl 7-8 Je '24

See also Silver mines and mining—Nevada

New Mexico

Mining industry and mineral resources of New Mexico. E. H. Wells. il Min Cong J 10:397-8 S '24

New Mexico's future mineral production. E. H. Wells. il Min Cong J 11:533-5 N '25

See also Coal—New Mexico; Geology—New Mexico; Petroleum—New Mexico

New South Wales

Mineral production of New South Wales. Engineer 139:466-7 Ap 24 '25

New York (state)

Mining hematite paint at Clinton, N.Y. W. S. Black. il diags Eng & Min J 119:927-30 Je 6 '25

See also Garnet

North Carolina

Mineral industry in North Carolina from 1918 to 1923. B. S. Drane and J. L. Stuckey. North Carolina Dept. of conservation and development Econ Pa 55:1-104 '25

North Carolina's mineral resources and their development. B. S. Drane. Manuf Rec 86:398-401 pt 2 D 11 '24

Ohio

See Coal—Ohio; Petroleum—Ohio

Oklahoma

Oklahoma's hidden treasures. C: N. Gould. il Manuf Rec 86:403-7 pt 2 D 11 '24

See also Gas, Natural—Oklahoma; Geology—Oklahoma; Lead mines and mining—Oklahoma-Kansas district; Petroleum—Oklahoma; Zinc mines and mining—Oklahoma-Kansas district

Ontario

Increases in nickel, copper, silver and platinum feature Ontario's mineral production during 1923. Can Chem & Met 8:89-90 Ap '24

Mining in Northern Ontario. Economist 98:132 Ja 26 '24

Ontario's mineral production January-June, 1924. Eng & Min J 118:610 O 18 '24

Primary native silver ores of South Lorraine and Cobalt, Ontario. E. S. Bastin. il Econ Geol 20:1-24, pl 1-7 Ja '25

See also Geology—Ontario; Silver mines and mining—Ontario

Oregon

Mining activities in Oregon. H: M. Parks. Eng & Min J 118:834 N 22 '24

See also Petroleum—Oregon

Pacific coast

Trend of mining industries on the Pacific coast. G: J. Young. Eng & Min J 118:135-6 Jl 26 '24

Panama

Manganese ore deposits in Panama. J: F. Sheridan. maps Iron Age 114:444-7 Ag 21 '24

Pennsylvania

See Coal mines and mining—Pennsylvania

Persia

Gypsum deposits of Southwestern Persia. J. V. Harrison. maps Econ Geol 19:259-73, Bibliography. 273-4 Ap '24

Peru

Occurrence and properties of sincosite, a new vanadium mineral from Sincos, Peru. W. T. Schaller. Am J Sci 5th ser 8:462-80 D '24

Peru's mineral and metal production in 1923. Econ W n s 28:628 N 1 '24

See also Copper mines and mining—Peru; Petroleum—Peru

Philippine Islands

Mineral reconnaissance in the Philippines. H. Nishihara. il diags maps Eng & Min J 119: 717-24 My 2 '25

Poland

See Petroleum—Poland

Portugal

Some mineral resources of Portugal. K. S. Twitchell. il Eng & Min J 119:648-50 Ap 18 '25

Quebec

Mineral output of Quebec. Can Eng 49:146 Jl 21 '25

Progress shown in mineral production of Quebec. Can Chem & Met 8:91 Ap '24

Queensland

Many old Queensland properties being reopened. Eng & Min J 119:618-19 Ap 11 '25

Rhodesia

Rhodesian mining industry improved last year. Eng & Min J 119:811 My 16 '25

Rumania

Minerals and mining. K. E. Carlson. il map U S Bur For & Dom Com 222:104-20 '24

Russia

Manganese and iron ore industries of Russia. V. Sverdloff. Engineer 139:280 Mr 6 '25

Russian iron and manganese. Eng & Min J 119:999 Je 20 '25

Russian metallurgical industries. Engineering 119:461-2 Ap 10 '25; Abstract. Mach 31: 789 Je '25

Soviet concession to W. A. Harriman interests covering 2,750,000 tons of manganese ore. Comm & Fin Chr 119:1802-3 O 18 '24

See also Petroleum—Russia

St Louis district

St. Louis the coming industrial center. il map Iron Tr R 75:sup 1-23 Ag 21 '24

Siberia

Iron and alloy metals in Siberia. B. Baievsky. maps U S Bur For & Dom Com Trade Information Bul 359:1-28 '25

South Africa

See also Central mining and investment corporation, limited

Bibliography

Subject index to the literature on the geology and mineral resources of South Africa. A. L. Hall. 384p Union of South Africa, Dept. of mines and industries, Pretoria '24

South America

South America; mining more active in 1924 than in 1923. il Eng & Min J 119:124-6 Ja 17 '25

South America; regional summaries. G: A. Easley. Eng & Min J 117:123-4 Ja 19 '24

MINES and mineral resources—*Continued*

South Carolina

Mineral resources of South Carolina. F. H. H. Calhoun. Manuf Rec 86:410-11 pt 2 D 11 '24

South Dakota

Geology of the Etta spodumene mine, Black Hills, South Dakota. G. M. Schwartz. bibliog diags Econ Geol 20:646-59 N '25

Geology of the region around Lead, South Dakota, and its bearing on the Homestake ore body. S. Paige. maps U S Geol S Bul 765:1-58, pl 1-11 '24

Gold, silver, and copper in South Dakota and Wyoming in 1923. C. W. Henderson. U S Geol S Min Res of U S 1923, pt 1:587-91 '25

South Dakota's mineral output in 1924. Eng & Min J 119:724 My 2 '25

Southern states

Economic survey of undeveloped Southern mineral resources. H: M. Payne. il Min Cong J 10:412-15 S '24

Mineral resources of the South. H: M. Payne. Manuf Rec 87:79-80 Mr 26 '25

Variety and production of southern minerals. Manuf Rec 88:65 S 24 '25

Spain

See Copper mines and mining—Spain; Iron mines and mining—Spain; Iron ores—Spain

Tasmania

Tasmania's mineral production. Eng & Min J 117:766 My 10 '24

Tennessee

What are Tennessee's mineral resources? W. A. Nelson. il Manuf Rec 86:414-18 pt 2 D 11 '24

Texas

Geology and natural resources of Colorado county. T. L. Bailey. maps Texas U Bul 2333:1-159, pl 1-6 '23

Mineral resources of Texas. E. H. Sellards. Manuf Rec 86:421-3 pt 2 D 11 '24

See also Petroleum—Texas; Potash—Texas

Transvaal

Transvaal silver-lead deposit. P. A. Wagner. il map Econ Geol 19:651-67 N '24

See also Gold mines and mining—Transvaal

Turkestan

Tuya-Muyun radium expedition in 1922. S. P. Alexandroff. il Eng & Min J 116:944-6 D 1 '23

Turkey

Attractive possibilities of mining in Turkey. il Eng & Min J 117:328 F 23 '24

United States

Cyclical fluctuations in the volume of mining, 1913-23. E. Boody. charts R Econ Statis 6:77-92 Ap '24

Metal mining in the United States in 1924. il Min Cong J 11:52-62 F '25

Mineral resources of the United States in 1923. F. J. Katz. Iron Tr R 75:543 Ag 28 '24

Silver, copper, lead and zinc in Central states. Manuf Rec 88:96 Jl 2 '25

United States; regional summaries. A. B. Parsons. il Eng & Min J 117:116-19 Ja 19 '24

United States; regional summaries. A. B. Parsons. Eng & Min J 119:118-21 Ja 17 '25

Wise use of mineral wealth imperative. R: F. Grant. Iron Age 115:24-5 Ja 1 '25

See also Coal mines and mining—United States; Gas, Natural—United States; Gold mines and mining—United States; Iron mines and mining—United States; Iron ores—United States; Petroleum—United States; Potash—United States; Silver mines and mining—United States; United States—Mines, Bureau of; *also* Newmont mining corporation

Utah

New and known minerals from the Utah-Colorado carnotite region. F. L. Hess. il U S Geol S Bul 750—D:63-78, pl 4-11 '24

Radium bearing silts of southeastern Utah. G: O. Williams. Eng & Min J 119:201-2 Ja 31 '25

Six months mining in Utah. G. Martin. Eng & Min J 120:144 Jl 25 '25

Tintic, Utah; active since 1870. H. E. Havenor. il diags map Eng & Min J 117:355-61 Mr 1 '24

Utah camps maintaining good shipping record. il Eng & Min J 118:108 Jl 19 '24

Utah's mineral future. A. G. Mackenzie. Min Cong J 11:541 N '25

Utah's mineral wealth. il Min Cong J 10:395-6 S '24

See also Gas, Natural—Utah; Petroleum—Utah

Venezuela

See Gold mines and mining—Venezuela; Petroleum—Venezuela

Virginia

Mineral resources of Virginia. T: L. Watson. Manuf Rec 86:426-8 pt 2 D 11 '24

See also Coal mines and mining—Virginia

Washington (state)

Metal mining in northeastern Washington. L. O. Howard. map Eng & Min J 119:957-61 Je 13 '25

West Virginia

Natural resources of West Virginia. I. C. White. Manuf Rec 86:432-4 pt 2 D 11 '24

See also Coal—West Virginia; Coal mines and mining—West Virginia; Gas, Natural—West Virginia

Wyoming

Phosphate deposits in the Wind river mountains, near Lander, Wyoming. D. D. Condit. map U S Geol S Bul 764:1-37, pl 1-3 '24

See also Gas, Natural—Wyoming; Petroleum—Wyoming

MINIATURE models. See Models, Miniature

MINIMUM wage

Constitutionality of Massachusetts requirements as to publication of names. Monthly Labor R 19:448-9 Ag '24

Development of state wage regulation in Australia and New Zealand. D. M. Sells. Int Labour R 10:607-29, 779-99, 962-1004 O-D '24

Minimum wage. Published in monthly numbers of Monthly labor review

Minimum wage. T. Brauer. Int Labour R 11: 682-700 My '25

Minimum wage law of Kansas held unconstitutional. Monthly Labor R 21:819-20 O '25

Minimum wage legislation in Canada and its economic effects. J. W. MacMillan. Int Labour R 9:507-37 Ap '24

Newspaper upheld in refusal to accept advertising under provisions of Massachusetts minimum wage law. Ptr Ink 127:176 Je 19 '24

Problem of the basic wage. P. H. Douglas. Univ J of Business 3:1-17 D '24

Problems arising from enforcement of Massachusetts minimum wage and 48-hour laws. E. M. Johnson. Monthly Labor R 19:290-5 Ag '24

State laws affecting working women. charts maps U S Women's Bur Bul 40:1-53 '24

Wage bargain and the minimum wage decision. F. W. Ryan. Harvard Business R 2: 207-18 Ja '24

What is sweating? Economist 100:1170-1 Je 13 '25

Bibliography

List of references on minimum wage for women in the United States and Canada. E. L. Stone. U S Women's Bur Bul 42:1-42 '25

MINING, Cooperative
Co-operatives reorganize; Indiana mines busy again. Coal Age 27:952 Je 25 '25

MINING camps
M.I.T. summer mining camp at Dover closes for season. il Eng & Min J 118:610 O 18 '24

MINING costs
Cost sheet for the mine foreman. W: F. Boericke. Eng & Min J 117:401-2 Mr 8 '24
Fresnillo glory-hole mining practice. T: C. Baker. diags plans Eng & Min J 116:931-42 D 1 '23
Narrow ore profits indicated. L. P. Barrett. Iron Tr R 77:684-6 S 17 '25
Rejuvenation of Nevada Consolidated. A. B. Parsons. il Eng & Min J 120:724-31 N 7 '25
Taxes overburden iron mines. L. P. Barrett. diag Iron Tr R 77:619-21+ S 10 '25

See also Coal mines and mining—Costs; Gold mines and mining—Costs; Silver mines and mining—Costs

MINING engineering
Blowing sand filling into Champion stopes. M. W. Youngs. Eng & Min J 119:1049 Je 27 '25
Facts about steam shovel mining at Jerome. Eng & Min J 119:892 My 30 '25
Fresnillo glory-hole mining practice. T: C. Baker. diags plans Eng & Min J 116:931-42 D 1 '23
Growing field for the mining engineer. A. B. Parsons. il Eng & Min J 117:319-24 F 23 '24
How to support a roof, thus increasing extraction and avoiding squeezes. C. Dixon. Coal Age 26:303 Ag 28 '24
Institution of mining engineers general meeting, Cardiff, June 16-18. Engineering 119: 761-3 Je 19 '25
Limestone production as a mining problem. F. R. Thoenen. il Concrete (cement mill sec) 26:61-2 My '25
Method of aligning raises. F. Montijo. diag Eng & Min J 119:251 F 7 '25
Mining hematite paint at Clinton, N.Y. W: S. Black. il diags plan Eng & Min J 119: 927-30 Je 6 '25
Mining limestone at Shingle Springs, California. G: J. Young. il diags Eng & Min J 119:1001-2 Je 20 '25
Mining limestone with shrinkage stopes. A. B. Parsons. il diags plan Eng & Min J 118: 605-9 O 18 '24
Mining methods at Gold Hill, Nevada. G: J. Young. il diags plan Eng & Min J 117:916-21 Je 7 '24
Mining methods at the United Verde. G: J. Young. il diags Eng & Min J 119:357-60, 397-401 F 28-Mr 7 '25
Mining practice in 1923. G: J. Young. diag Eng & Min J 117:100-3 Ja 19 '24
Mining practice in 1924. G: J. Young. Eng & Min J 119:105-8 Ja 17 '25
Mining soft ores by improved top slicing method. S. J. Goodney. diags Eng & Min J 119:651 Ap 18 '25
Novel application of glory hole mining. R. A. Kinzie. diags Eng & Min J 118:752-3 N 8 '24
Recent developments in open-pit mining. R. Marsh, jr. il Eng & Min J 119:643-7 Ap 18 '25
Steam and electric shovels in open mine excavation. Eng N 95:602-3 O 8 '25
Taschenbuch für berg- und hüttenleute. F. Kögler. 1477p W. Ernst & sohn, Berlin '24
Underground mine caving methods. J. P. Hodgson. Min Cong J 11:483+ O '25
Use of scrapers in narrow veins. A. S. Winther. diags plan Eng & Min J 118:618-19 O 18 '24
Wonders of modern mining. A. Williams. 153p Seeley, Service & co., ltd., London '24

See also Blasting; Coal mines and mining; Copper mines and mining; Diamond mines and mining; Drilling and boring (earth and rocks); Electricity in mining; Hydraulic mine filling; Hydraulic mining; Iron mines and mining; Limestone; Mine drainage; Mine haulage; Mine hoisting; Mine management; Mine pumping; Mine shafts; Mine surveying; Mine timbering; Mine ventilation; Mines and mineral resources; Mining engineers; Mining machinery; Mining schools and education; Ore handling; Ore sampling; Prospecting; Rock drills; Salt mines and mining; Shaft sinking; Tin mines and mining; Tunnels and tunneling; Zinc mines and mining; *also* Empire mining and metallurgical congress

Power
Diesel engine in the mining field. F. E. Wormser. il diags Eng & Min J 120:124-34 Jl 25 '25; W. D. Abel. Discussion. 120:379 S 5 '25
First complete electrification of an open-pit iron-ore mine in Minnesota; specifications and operation costs of the electrical equipment. R. S. Walker. il diags maps Gen Elec R 27:580-91 S '24
Mixed-pressure turbine versus a new steam plant. F. S. Yontsey. il plan Power 59:934-6 Je 10 '24
Power in Ontario mining areas. Can Eng 49: 278 S 1 '25
Water power in the mining industry of Canada. Engineer 138:194 Ag 15 '24; Abstract. Elec W 84:433 Ag 30 '24

See also Coal mines and mining—Power; Electricity in mining

Safety measures
Carbon monoxide self-rescuer. A. C. Fieldner, S. H. Katz and D. A. Reynolds. il diags U S Bur Mines Rep of Invest 2591:1-10 Ap '24 (typew)
Dr Joseph A. Holmes and his contribution to mine safety. C. L. Colburn. il Nat Safety N 8:29-30 D '23
Electrical safety inspection; suggestions for mine-safety engineers. L. C. Ilsley. Safety Eng 47:168-73 Ap '24; Excerpt. Eng & Min J 118:379-80 S 6 '24
Greater safety in mining discussed. H. F. Bain. Min Cong J 10:315-16+ Jl '24
How to make preparations against a fire or an explosion and what to do when it occurs. D. Harrington and M. W. von Bernewitz. il Coal Age 26:689-91 N 13 '24
Mine accident prevention work of the United States Bureau of mines. H. F. Bain. Econ W n s 28:923-4 D 27 '24
Mine safety improves in 1923 despite disasters. C. L. Colburn. Nat Safety N 9:31-2 Ja '24
Mine safety in the handling of explosives. Nat Safety N 10:39-40 O '24
Mine safety problems discussed at National council meeting. Eng & Min J 120:589-90 O 10 '25
Mining interests join in Illinois safety conference. Nat Safety N 11:30 F '25
National safety congress at Louisville gives proof of progress during past year. Coal Age 26:513-15 O 9 '24
Next step in mine safety? R. M. Magraw. Nat Safety N 8:39-40 O '23
Organization for mine fire fighting in metal mines. B. O. Pickard. il Min Cong J 11:158-60 Ap '25
Principles of mine safety work. F. P. Botsford. Min Cong J 11:473 O '25
Progress of Joseph A. Holmes safety association. C. L. Colburn. il Nat Safety N 10: 42 O '24
Reminiscences of twenty-eight years in metal mines. J. H. Hearding. Nat Safety N 9:32 Ja '24
Safe practice in underground transportation. L. Eaton. il Min Cong J 11:470-2+ O '25
Safety in mines research board; second annual report. Elec R (Lond) 95:352-3 S 5 '24
Safety-in-mines research board; 3d annual report. Elec R (Lond) 97:316-17 Ag 21 '25
Safety in underground use of electricity. J. B. Johnson. il Min Cong J 10:475-6+ O '24; Same. Safety Eng 49:28-31+ Ja '24; Abstract. Elec W 84:1110 N 22 '24
Some problems of mine safety. T. T. Read. Min Cong J 10:473-4 O '24

MINING engineering—Safety measures—*Cont.*
Underground safety story of zinc. G: E. Wallis. il Nat Safety N 9:11-14 Je '24

See also Blasting—Safety devices and measures; Coal mines and mining—Safety measures; Mine rescue work; Mine signals; Mine telephone; Mine ventilation

Standards

Application of standardization to metal mining. L. Eaton. Min Cong J 10:149-50 Ap '24

Coordination of mining standards. E. A. Holbrook. Min Cong J 11:25+ Ja '25

Determining size and shape of drifts and drift timbers. A. C. Stoddard. Min Cong J 11:165 Ap '25

Mining standards now before mining standardization correlating committee. E. A. Holbrook. Min Cong J 11:141-2 Ap '25

National standardization movement and the mining industry. P. G. Agnew. Min Cong J 11:143-4 Ap '25

Proceedings of the fourth National standardization conference, held in connection with the twenty-sixth annual convention of the American mining congress, Milwaukee, Wis., Sept. 24-29, 1923. 328p Am. mining congress, Washington, D.C. '24

Standardization promotes safety. R. Kudlich. Min Cong J 10:477 O '24

Standardizing underground transportation. diags Min Cong J 10:135-41 Mr '24

Study and teaching

Carnegie institute to train graduates at mines. Coal Age 26:832-3 D 11 '24

See also Mining schools and education

China

Models of primitive Chinese mines. il Eng & Min J 119:448 Mr 14 '25

MINING engineers

Position of the colliery engineer. Elec R (Lond) 94:84-6 Ja 18 '24; Discussion. 94: 198-9, 207-8, 239 F 1-8 '24

Professional status of mining engineers. F. L. Sizer. Eng & Min J 116:1104 D 29 '23

See also Mining schools and education; *also* McCormick, Edward; Munro, Charles H.; Neill, James Wilson; Strauss, Lester Wallack

MINING industry and finance

Advantages of local smelting. J. A. Parker. il Eng & Min J 117:265-6 F 9 '24

Bonds of copper-mining companies. W. F. Boericke. Eng & Min J 118:91-3 Jl 19 '24

Evolution of mining. J. E. Spurr. Eng & Min J 119:5-12 Ja 3 '25

Ex-trader's views on mine promotion; an interview with John Borg. Eng & Min J 117: 236 F 9 '24

55th annual review and year book number. Eng & Min J 117:82-152 Ja 19 '24

56th annual review and year book number. Eng & Min J 119:81-152 Ja 17 '25

Financing the prospect. A. B. Parsons. Eng & Min J 117:676-83 Ap 26 '24; Discussion. 117: 812-13, 933-4 My 17, Je 7 '24

Money and mines. H. F: Marriott. 270p E. Macmillan '25

Shall the shareholder know? Eng & Min J 117:651-2 Ap 19 '24

Status of the mining industry. T. A. Rickard. Eng & Min J 118:333-5 Ag 30 '24

Virtues of blue-sky laws. J. G. Hinkle. Eng & Min J 120:696 O 31 '25

See also Coal mines and mining—Finance; Copper industry and trade; Iron industry and trade; Metal trade; Mine accounting; Mine taxation; Mine valuation; Mineral industries; Mining costs; *also* Barnsdall corporation; Central mining and investment corporation, limited; Hollinger consolidated gold mines, ltd.

Directories

Mines handbook, 1924. W. H. Weed. 2350p Mines handbook, Tuckahoe, N.Y. '25

Statistics

Company reports. Published in weekly numbers of Engineering and mining journal-press

Mining dividends in 1922 and 1923. Eng & Min J 117:149 Ja 19 '24

Mining dividends in 1923 and 1924. Eng & Min J 119:147-8 Ja 17 '25

Australia

See Gold mines and mining—Australia

British Columbia

Mining and metallurgy in British Columbia. Can Chem & Met 9:46 F '25

Mining industry of British Columbia. W: Sloan. Min Cong J 10:568-9 D '24

California

Mining in the Mother Lode region of California. G: J. Young. il Eng & Min J 118: 64-6 Jl 12 '24

Great Britain

Central mining and investment corporation, limited. Economist 98:1067-71 My 24 '24

Mexico

See Metallurgical plants—Mexico

Montana

Location, representation and patenting of mineral lands in Montana. A. E. Adami. 70p State school of mines, Butte, Mont. '23

Peru

See Copper mines and mining—Peru

Russia

What soviet Russia has done to mining and what it now offers. S. Brooks. il Eng & Min J 117:956-8 Je 14 '24

South Africa

See Diamond mines and mining—South Africa

South America

Bogey of cheap South American copper. A. Notman. Eng & Min J 117:807-10 My 17 '24; Discussion. 118:620 O 18 '24

Sweden

Sweden's largest industrial company; world's oldest enterprise, Stora Kopparbergs bergslags aktiebolag. A. B. Sloane. il Iron Age 114:751-4 S 25 '24

Tanganyika

Increments in darkest Africa. R. B. Brinsmade. Eng & Min J 120:221-2 Ag 8 '25

Tanganyika group. Economist 101:184-5 Ag 1 '25

United States

Metal mining during first half of 1924. Min Cong J 10:363-7 Ag '24

Metal mining in the United States in 1923. il Min Cong J 10:71-8+ F '24

Stabilizing the mining industry. R: E. Tally. Min Cong J 10:519-20 N '24

See also United States—Mines, Bureau of

Utah

New era ahead for Park City, Utah. A. B. Parsons. il Eng & Min J 116:1133-5 D 29 '23

Utah mines paying larger dividends than in 1924. Eng & Min J 120:581-2 O 10 '25

MINING law

California legislature passes sundry laws affecting mining. Eng & Min J 119:1016 Je 20 '25

Engineering and safety problems of the coal mining industry of Great Britain. H: Walker. Coal Age 25:462-4 Mr 27 '24

Great Britain revises its mine electrical rules. C. H. S. Tupholme. Coal Age 26:863-4 O 18 '24

Law of mines and the freedom of the miner. T. A. Rickard. Eng & Min J 118:891-9 D 6 '24

MINING law—*Continued*
Legislative review. Published in monthly numbers of Mining congress journal
Mine inspectors' institute advocates legislation requiring closed lights and permissibles. A. F. Brosky. Coal Age 25:807-8 My 29 '24
Mining code of the state of Arizona. T. C. Foster. 48p Arizona State bur. of mines, Phoenix '23
Mining law revision—a study of proposals. Eng & Min J 119:940-2 Je 6 '25
Model mining law chief objective of House safety hearings. Coal Age 25:851 Je 5 '24
Opinion as to the law on assessment work on mining claims in Alaska. J. W. Thompson. il Eng & Min J 117:476-9 Mr 22 '24; Discussion. H. E. Pratt. 117:1046-8 Je 28 '24
Proposed law to make West Virginia mines safer. Coal Age 27:219-20 F 5 '25
Rumanian mining law—protests by State department at Washington. Comm & Fin Chr 119:658-9 Ag 9 '24
U.S. rules make mines in public lands safer. H. I. Smith. il diags Coal Age 26:8-11 Jl 3 '24

See also Mine taxation; Mineral lands; Petroleum laws and regulations; *also* California debris commission

MINING machinery
Drifting with scraper slides. G: C. Newton. il diags Eng & Min J 117:731-3 My 3 '24
Handling of materials in underground mining. G. N. Bjorge. il Min Cong J 11:554+ N '25
Mechanical loading in metal mines. il Min Cong J 11:214+ My '25
Mechanical underground loading in metal mines. C: E. Van Barneveld. il diags plans Mo U Sch Mines & Met Bul 7:1-639 My '24
Mine loaders find wide range of use. R. P. Greenleaf. il diag Iron Tr R 77:75-7+ Jl 9 '25
New machinery in 1924. A. H. Hubbell. Eng & Min J 119:136-7 Ja 17 '25
New machinery on the market in 1923. A. H. Hubbell. Eng & Min J 117:147-8 Ja 19 '24
Underground mechanical loading. Eng & Min J 120:161, 259 Ag 1, 15 '25
Wege zur verbesserung der druckluftwirtschaft auf bergwerken. H. Reiser. diag Zeit Ver Deutsch Ing 68:653-6 Je 21 '24

See also Coal mining machinery; Electricity in mining; Hoisting machinery; Mine haulage; Rock drills; Scrapers; Shoveling machines

Exhibitions

Cardiff engineering exhibition. il diags Engineering 118:766-9, 808 D 5-12 '24

MINING research

See United States—Mines, Bureau of

MINING schools and education
Arizona's school of mines. G. M. Butler. il Eng & Min J 118:272 Ag 16 '24
Development of Arizona's mining college. G. M. Butler. il Min Cong J 11:542-4 N '25
L'école des mines et de métallurgie du Hainaut à Mons. Halleux. Soc Ing Civils Bul 76:1091-3 O '23
Educating the prospective mining engineer. J. A. Carpenter. Eng & Min J 116:986-7 D 8 '23
Education of a mining engineer. S. J. Kidder. Min Cong J 10:301+ Jl '24
Mining and allied educational institutions in the United States, Canada, and Mexico in which mining engineering subjects are taught. Eng & Min J 119:149-50 Ja 17 '25
Mining engineering education. Eng & Min J 119:234, 570-1 F 7, Ap 4 '25
Mining engineering education since 1910. G. M. Butler. J Eng Educ 15:261-70; Discussion. 270-84 D '24
What is the matter with mining schools? S. H. Brockunier. Eng & Min J 119:731-2 My 2 '25

See also Alaska agricultural college and school of mines

MINING standards. See Mining engineering—Standards

MINING towns
Campine mining villages resemble garden cities. D. Adam. il Coal Age 26:283-6 Ag 28 '24
Kramer mine houses its stay-at-home employees. A. F. Brosky. il diags plans Coal Age 26:463-7 O 2 '24
Model government for an industrial town; Bauxite, Ark. T. Shiras. il Eng & Min J 116: 895-8 N 24 '23
Welfare and safety in connection with mining in Utah. A. L. Murray. Min Cong J 11:478-9 O '25; Abstract. Safety Eng 50: 241+ O '25

See also Miners' houses; *also* Cobalt, Ontario

MINNEAPOLIS, Minnesota

Bridges

Long span arch built over old bridge at Minneapolis. il Concrete 24:207 My '24

Chamber of commerce

Minneapolis chamber of commerce ordered by Federal trade commission to cease unfair methods of competition. Comm & Fin Chr 118:160-1+ Ja 12 '24

Railroads

Northern Pacific Ry. completes line diversion at Minneapolis. il diags map plans Ry R 74:673-80 Ap 12 '24
Track elevation at Minneapolis, N.P. Ry. il diags plans Ry R 74:801-3 My 3 '24

Rapid transit

Dividends paid and property kept up on Twin City rapid transit. Elec Ry J 65: 387-8 Mr 7 '25
Minneapolis valuation before Minnesota commission. Elec Ry J 62:817-18 N 10 '23
Twin Cities railways doing well. Elec Ry J 63:194 F 2 '24
Twin City valuation $42,949,191. Elec Ry J 65:430-1 Mr 14 '25

Water supply

Anaerobic, lactose-fermenting spore-bearers in the City of Minneapolis water supply. F. Raab. Am Water Works Assn J 10:1051-5 N '23

MINNEAPOLIS & St Louis railroad
Minneapolis and St Louis railroad securities. Moody's Inv Serv 16:47; 17:19 Ja 31 '24, Ja 8 '25

MINNEAPOLIS, St Paul & Sault Ste Marie railway
Annual report, 35th, 1923. Comm & Fin Chr 118:2564 My 24 '24; Same. Ry Age 76:1395 Je 7 '24
Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:2396 My 9 '25; Excerpts. Ry Age 78:1306 My 23 '25; Ry R 76: 878-9 My 9 '25
Soo line shows improvement in earnings. Ry Age 76:1371-2 Je 7 '24

MINNESOTA

See Electric plants (central stations)—Minnesota; Geology—Minnesota; Gold mines and mining—Minnesota; Iron mines and mining—Minnesota; Iron ores—Minnesota; Potash—Minnesota; Securities—Minnesota

MINNESOTA bus association
Code of principles adopted. il Bus Transportation 3:482-4 O '24

MINNESOTA federation of architectural and engineering societies
Minnesota federation meets at Winnipeg, Aug. 20-21. Eng N 95:360 Ag 27 '25

MINNESOTA university
University courses in accountancy; University of Minnesota. E. A. Heilman. J Account 39:380-4 My '25

Mines experiment station

Minnesota finishes model ore-testing plant at Minneapolis. A. B. Parsons. il Eng & Min J 116:851-3 N 17 '23

MINTS
First lady of the mint. L: Alexander. Am Bankers Assn J 16:559-60+ Mr '24

MIRABILITE
Mining mirabilite near Wabuska, Nev. J: Melhase. il map Eng & Min J 119:965-7 Je 13 '25

MIRACLE (drama). See Theaters—Stage setting and scenery

MIRRORS
Studies in the projection of light. F. Benford. Gen Elec R 27:698-705, 749-57, 830-8; 28:193-7, 866-72 O-D '24, Mr, D '25

See also Reflectors

MISBRANDING
Misbranding bill a step closer to passage. Ptr Ink 130:10+ Ja 29 '25
Misbranding defined by Supreme court. Ptr Ink 127:41-2 Je 12 '24
Misbranding raw materials and ceramic chemicals for glass manufacture. Am Cer Soc J (Bul) 7:388-90 O '24

See also Food laws and legislation

MISCH metal
Preparation and properties of cerium-free misch metal. A. P. Thompson and H. C. Kremers. Am Electrochem Soc Trans v 47 (preprint 18):207-12 Ap '25

MISO
Nature of the oil of soy bean miso. R. Kodama. Ind & Eng Chem 16:523 My '24

MISSION buildings (Spanish)
Earliest mission buildings of San Antonio, Texas. A. B. Ayres. il Am Arch 126:173-8 Ag 27 '24
Mission San José de Tumacacori, near Tubac, Arizona. I. T. Frary. il Arch Rec 57:476-8 My '25
Old Spanish missions in and about San Antonio. F. S. Laurence. il Am Arch 124:445-50 N 21 '23

MISSISSIPPI

See also Building—Mississippi

Industries and resources

Manufacturing in Mississippi, 1923. Manuf Rec 87:75 My 28 '25
Mississippi. D. Murphree. Manuf Rec 86: 387-8; Statistics. 391 pt 2 D 11 '24
Mississippi on the move to greater prosperity. F. Wilson. Manuf Rec 87:109-10 My 7 '25

See also Mines and mineral resources—Mississippi

MISSISSIPPI river
Economics of transportation on the Mississippi river. J. E. Ransdell. Am Soc C E Pro 49:2028-44 D '23
Federal barge line proving costly experiment; Mississippi-Warrior service. il Ry Age 76: 381-3 F 9 '24; Same. Eng & Contr (Ry) 61: 1364-7 Je 18 '24
Hay pays half maintenance cost of Yazoo levee district. C. W. Littlejohn. il Eng N 93:557 O 2 '24
How the Mississippi river is regulated. C: L. Potter. il diags Eng N 94:508-14 Mr 26 '25
Levees on Mississippi tend to lower river bed. C: L. Potter. map Eng N 92:280-2 F 14 '24; Discussion. 92:626-7 Ap 10 '24
New Orleans refiner widens market by barging oil to Memphis. W. K. Halbert. Nat Pet N 16:17-18 F 6 '24
Relation of the Ohio-Mississippi waterways to production and industrial development. H. B. Luther. Am Soc C E Pro 51:1659-62 O '25
Resources and development of the Mississippi valley. W. Parker. Manuf Rec 85:73-4 Mr 20 '24
Revival of commercial transportation of the Mississippi. M. J. Sanders. Am Soc C E Pro 49:2022-7 D '23
River and harbor problems of the lower Mississippi: a symposium. Am Soc C E Pro 49: 1133-1249, 1722-31, 2021-44 Ag, O, D '23; Discussion. 49:1624-43, 1792-8, 1929-35, 2045-59; 50:83-8, 311-28 Ja, Mr '24
Some suggested ways of controlling the Mississippi floods. C: L. Potter. Eng N 94: 556-9 Ap 2 '25; Discussion. 94:826 My 14 '25
Upper Mississippi river transportation. J. Brodie. diags Soc Auto Eng J 14:516-21 My '24

MISSISSIPPI valley
Last frontier. E. P. Davis. Comm & Fin 13: 115+ Ja 9 '24

See also Banks and banking—Mississippi valley

MISSOURI

See also Coal—Missouri; Geology—Missouri; Labor and laboring classes—Missouri; Roads—Missouri

Capitol

Missouri's new $5,200,000 state capitol. il Manuf Rec 86:92 O 2 '24

Industries and resources

Census of Missouri manufactures, 1923. Manuf Rec 87:86 Je 11 '25
Missouri—a century of romance in progress. A. M. Hyde. Manuf Rec 86:392-3; Statistics. 397 pt 2 D 11 '24

See also Gasoline industry—Missouri; Mines and mineral resources—Missouri; Steel industry and trade—Missouri

Negro industrial commission

Report, 3d biennial. Monthly Labor R 20:988-9 My '25

MISSOURI-Kansas-Texas railroad
Annual report for the year ended December 31, 1923. Ry Age 76:1183-4 My 10 '24; Same. Comm & Fin Chr 118:2202-3 My 3 '24
Annual report for the year ended December 31, 1924. Ry Age 78:1119-21 My 2 '25; Same. Comm & Fin Chr 120:2302-3 My 2 '25
Interstate commerce commission cuts fees of reorganization managers and counsel by $864,250 to $1,500,000. Comm & Fin Chr 121: 547-50 Ag 1 '25; Ry Age 79:226-8 Ag 1 '25; Ry R 77:181 Ag 1 '25
Missouri-Kansas-Texas prosperity. map Ry Age 78:369-72 F 7 '25
Missouri-Kansas-Texas R.R. co. common stock. Moody's Inv Serv 17:276 Ag 20 '25

MISSOURI Pacific railroad
Annual report, 7th, 1923. Ry Age 76:1236-7 My 17 '24; Same. Comm & Fin Chr 118:2066-7 Ap 26 '24
Annual report, 8th, for year ended December 31, 1924. Ry Age 78:1183-4 My 9 '25; Same. Comm & Fin Chr 120:2300-1 My 2 '25
Missouri Pacific efficiency. map Ry Age 78: 231-3 Ja 17 '25
Missouri Pacific railroad company. Moody's Inv Serv 16:21-4 Ja 10 '24
Modern Missouri Pacific. C: F. Speare. Am Bankers Assn J 17:376 D '24
New Orleans, Texas and Mexico railway and International-Great Northern railroad go to Missouri Pacific system. map Manuf Rec 86:84 D 18 '24
Strictures of Inter-state commerce commission on compensation to bankers in acquisition of Gulf Coast lines by Missouri Pacific—approves acquisition. Comm & Fin Chr 119:2718-20 D 13 '24; Ry Age 77:1080-2 D 13 '24

MISSOURI river
Curbing a threatened diversion of the Missouri river. il plans Eng N 93:373-5 S 4 '24
Drainage and flood protection of an industrial district in Kansas. O. H. Horner. il diags map Eng N 94:238-40 F 5 '25

MISSOURI. University
New chemistry building of the University of Missouri. H. Schlundt. plans Chem Age 32: 9-10 Ja '24

MISTS, Acid
Quantitative analysis of mists and fogs, especially acid mists. H. C. Weber. diags Ind & Eng Chem 16:1239-42 D '24

MITCHELL, Sidney Z.
Mitchell, the man who saves millions for investors. B. C. Forbes. por Forbes 16:315-18+ Je 15 '25

MITKE, Charles A.
Mining engineers of note. por Eng & Min J 118: 1004 D 27 '24

MIXED bonds. See Valence

MIXED crystals. See Solutions, Solid

MIXERS
See Concrete mixers; Mixing machines; Paving mixers; Sand mixers; Stirrers

MIXERS, Concrete. See Concrete mixers

MIXING, Heat of
Calorimeter for heats of mixing at elevated temperatures. B. H. Carroll and J. H. Mathews. diags Am Chem Soc J 46:30-6 Ja '24

MIXING devices
Mixing devices and reaction time. C: P. Hoover. Am Water Works Assn J 11:582-97 My '24

See also Sand mixers

MIXING machines
Agitating, stirring and kneading machinery. H. Seymour. 139p E. Benn, ltd., London '25
Mechanical mixing machinery. L. Carpenter. 138p E. Benn, ltd., London '25
Mixing equipment. il Textile Col 47:730-1 N '25

See also Agitators; Concrete mixers; Paving mixers

Safety measures

Guard interlocked with belt shifter on mixing machine. il diag Nat Safety N 9:45 F '24

MIXTURES
Analysis of binary mixtures; volumetric turbidity method. C: D. Bogin. Ind & Eng Chem 16:380-6 Ap '24
Detection of constant-boiling mixtures; hydrochloric acid-water and methyl alcohol-benzene. T. R. Briggs. J Phys Chem 28:644-50 Je '24
Dissolution of substances in mixed liquids with special reference to colloids. E. W. J: Mardles. Chem Soc J 125:2244-59 N '24
Distillation et rectification; mélange de benzène, toluène et métaxylène. L. Gay. Chimie & Ind 10:811-28, 1026-42 N-D '23
Properties of mixtures of aniline, water, and some fatty acids. J. R. Pound and R. S. Russell. il Chem Soc J 125:769-80 Ap '24
Rectifying column calculations with particular reference to *N* component mixtures. E. V. Murphree. Ind & Eng Chem 17:747-50 Jl '25
Relation between deviations from Raoult's law and the partial heats of solution. J. A. V. Butler. Am Chem Soc J 47:117-22 Ja '25
Relation between vapor pressure and vapor composition in binary mixtures of volatile liquids. W. K. Lewis and E. V. Murphree. Am Chem Soc J 46:1-7 Ja '24
Solubility relations of isomeric organic compounds; the determination of freezing temperatures of binary mixtures. D. H. Andrews, G. T. Kohman and J: Johnston. diags J Phys Chem 29:914-25 Ag '25
Specific heats of binary mixtures. J: W. Williams and F. Daniels. Am Chem Soc J 47: 1490-1503 Je '25
Vapour pressure of binary mixtures. J. Brown. Soc Chem Ind J 44:162 Ap 3 '25
Vapour pressures of binary and ternary fuel mixtures J. S. Lewis. diag Inst Pet Tech J 11:152-70; Discussion. 170-6 Ap '25
Vaporization of liquid mixtures. J. F. King and S. P. Smedley. diags J Phys Chem 28: 1265-72 D '24

See also Buffer mixtures; Inflammable mixtures; Mixing, Heat of; Vapor—air mixtures; Water vapor—air mixtures

MIXTURES, Inflammable. See Inflammable mixtures

MOBILE, Alabama
Mobile, Alabama. R. J. Milling. il plan Manuf Rec 86:470-2 pt 2 D 11 '24
Terminal development at Mobile, Ala. D: Holt. Eng & Contr (Ry) 62:644 S 17 '24

Harbor

Four plans submitted for improvements to Mobile under $10,000,000 Seaport enabling act. il Manuf Rec 85:81-2 F 14 '24
Work starts on port development at Mobile, Alabama. A. C. Davis. diag plan Eng N 94:1024-5 Je 18 '25

MODEL houses. See Houses, Model

MODEL stock plan. See Merchandizing

MODEL towns
Cities reared to order. E. Dakin. il Comm & Fin 13:2189-91 N 12 '24
"A city, please"—Longview the result. N. Swett. il plans Bldg Age 46:78-87+ My '24
Why economists blink at Kohler model community factory. W. S. Smith. il Forbes 16: 588-90+ Ag 1 '25

See also Company towns

MODELS
Dynamic model of a valve and oscillating circuit. R. C. Clinker. diags Inst E E J 62:125-6 Ja '24; Same. Engineer 136:583 N 30 '23; Abstract. Elec R (Lond) 94:487-8 Mr 28 '24; Discussion. Inst E E J 62:127-8 Ja '24
Model engineer exhibition, Westminster, Jan. 4-11. il Engineer 137:40-1 Ja 11 '24
Model making, including workshop practice, design and construction of models. R. F. Yates. 2d ed., rev. and enl. 428p Henley '25
Principle of dynamical similarity, with special reference to model experiments. A. H. Gibson. Engineering 117:325-7, 357-9, 391-3, 422-3 Mr 14-Ap 4 '24

See also Architectural models; Astronomical models; Mine models; Ship models

MODELS, Miniature
Building industry in miniature. R. W. Good. il Am Ind 25:19-21+ Ap '25
Equipment models for exhibit. il Eng & Contr (R & S) 64:1022-3 N 4 '25
Miniature model to build sales. R. Crothers. Ptr Ink M 9:74+ Jl '24
Miniature stove helps sell regular models. il Ptr Ink M 11:58 N '25
Thirty-eight percent sales from advertising inquiries; demonstration outfit shipped to prospects. L. J. Steffen. Sales Management 8:951-2 Je 27 '25
Toy model has its limitations. Ptr Ink 130: 86 F 5 '25
When the old customer is really a new prospect; model building for display of Westinghouse products. il Sales Management 9:19-20 Jl 11 '25

MOFFETT, William A., 1869-
Admiral Moffett reappointed chief of the Bureau of aeronautics. por Aviation 18: 325 Mr 23 '25

MOHAIR
Angora goat and mohair production. Comm M 6:25-30 Ag '24

MOHAMMED temple, Peoria, Ill.
Mohammed temple, Peoria, Ill., views. Am Arch 127:89-90 Ja 28 '25

MOHAWK mining company
Facts for the stockholder. Eng & Min J 117: 231 F 2 '24

MOISTURE
Can air carry moisture? diags Power 62:503, 790 S 29, N 24 '25
Conditioning. J. Barker and L. P. Priestley. Textile Inst J 16:P272-90 [bibliog. p. P283, P290] S '25
How to prevent the caking of crystals such as ammonium nitrate. H. J. Krase, J. Y. Yee and J. M. Braham. Chem & Met Eng 32:241-3 F 9 '25

MOISTURE—*Continued*
Preliminary notes on the direct determination of moisture. G. L. Bidwell and W. F. Sterling. diag Ind & Eng Chem 17:147-9 F '25

See also Cotton—Moisture content; Evaporation; Humidity; Sand, Foundry—Moisture content; Soil moisture; Textile fibers—Moisture content; Water; Wheat—Moisture content; Wool—Moisture content

MOL (term)
Engineer opposes the use of the term "mol" in thermo-chemical calculations. R. W. Bailey. Automotive Ind 50:1292-3 Je 12 '24

MOLASSES
Alcohol from cane blackstraps. W. L. Owen and J. D. Bond. Ind & Eng Chem 16:387-92 Ap '24
Alcohol motor fuel from molasses. E. C. Freeland and W. G. Harry. Ind & Eng Chem 17:615-21, 717-20 Je-Jl '25
Cause of the low yield alcohol on fermentation of molasses. D. N. Gupta, H. D. Sen and E. R. Watson. Soc Chem Ind J 43:291-2 S 19 '24
Clarification of sugar products prior to the determination of reducing sugar. L. Eynon and J. H: Lane. Soc Chem Ind J 42:463-6 D 7 '23
Disposal of waste from beet sugar industry. E: Bartow. Am Inst Chem Eng Trans v 16 pt 1:47-53 '24; Same. Chem Age 32:373-5 S '24
Molasses as a source of vitamin B. V. E. Nelson, V. G. Heller and E. I. Fulmer. Ind & Eng Chem 17:199-201 F '25
Motor fuel from molasses. 62p Walter E. Lummus co., Boston '24
Possibilities of beet molasses. W. J. Geldard. diag Chem & Met Eng 30:394-7 Mr 10 '24
Summary of technical methods for the utilization of molasses; collated from patent literature. diags U S Bur Stand Circ 145:1-72 '24; Abstract. J Fr Inst 197:831-4 Je '24
Utilization of beet molasses. Chem Age 32: 185-6 Ap '24

Advertising
New England housewives give hearing to Grandma's molasses. H. Burwen. Ptr Ink 126:181-2 Ja 10 '24

Analysis
True dry substance content of beet molasses. R. G. Gustavson and J. A. Pierce. Ind & Eng Chem 16:167-8 F '24
Use of Baumé scale in molasses analysis. Chem & Met Eng 32:699 Ag '25

Transportation
American sugar refining company operates first molasses tanker. il plan Marine R 54: 131-3 Ap '24

MOLASSES fusel oil. See Fusel oil

MOLASSES tank explosions
Bursting of Boston molasses tank found due to overstress. Eng N 94:188-9 Ja 29 '25

MOLDENKE, Richard, 1864-
To receive first Seaman medal of A.F.A. por Brass W 21:307-8 S '25; Foundry 53:727+ S 15 '25; Iron Age 116:737-8 S 17 '25

MOLDING (metal). See Foundry practice; Molds (for casting)

MOLDING machines
Eine hand-rüttelformmaschine. C. Irresberger. il Stahl & Eisen 45:660-1 Ap 30 '25
Falkirk uses new methods; how bath tubs, telegraph-pole bases and other castings are being made. H. C. Estep. il diag Foundry 52:331-9+ My 1 '24
Hydraulic machine makes axle boxes. il Foundry 53:211 Mr 1 '25
International foundry trades exhibition at Birmingham. il Engineering 117:824-5 Je 27 '24
Die modellplatte. A. Haug. diags Stahl & Eisen 45:1301-6 Jl 30 '25
Modellplattenherstellung für rüttelformmaschinen. P. Frech. il diag Stahl & Eisen 45:658-9 Ap 30 '25
Molding machine driven electrically. il Foundry 52:786 O 1 '24
Molding machine; early history and development. R. E. Search. il diags Metal Ind 22: 56-8 F '24
Molding machine in the jobbing foundry. R. R. Clarke. Metal Ind 22:357-8 S '24
Molding machine practice. R. R. Clarke. Metal Ind 22:237-8, 272-5 Je-Jl '24
Molding machine practice. N. F. Flanagan. Metal Ind 22:5-6 Ja '24
Molding machines and molding practice. R. R. Clarke. il Metal Ind 22:100-3 Mr '24
Molding motor end brackets. il diags Foundry 52:735-6 S 15 '24
Movable molding machine for large work. il Iron Age 114:247-9 Jl 31 '24
Neues verfahren zur herstellung von konverterböden auf rüttelmaschinen. F. Diesfeld. diags Stahl & Eisen 45:259-61 F 19 '25
New molding machines feature exhibition. Iron Age 114:1063-4+ O 23 '24
Osborn new rapid type molding machine. il Foundry 52:162 F 15 '24
Production equipment in iron foundries. il diag Iron Age 115:969-71 Ap 2 '25
Sandaufbereitungs- und masselformmaschine zum formen von hochofenmasseln. M. Paschke. il diags Stahl & Eisen 44:1771-2 D 25 '24
Speeds production of heavy molds for electrical castings. P. Dwyer. il diag Foundry 53:307-10 Ap 15 '25
Squeezer molding machine. R. E. Search. il Metal Ind 22:191-4 My '24
Stossfreie rüttelformmaschinen. P. Frech. il diags Stahl & Eisen 44:1048-9 Ag 28 '24
Types of molding machines. R. E. Search. il Metal Ind 22:315-17, 397-8, 442-3 Ag, O-N '24
Use special molding machines for farm castings. P. Dwyer. il Foundry 53:345-8 My 1 '25
Die vierte giessereifachausstellung in Düsseldorf. C. Irresberger. il diags Stahl & Eisen 45:1811-15 O 29 '25
Why molding machines? C. W. Miller. Metal Ind 22:146-7 Ap '24

MOLDING presses
Automatic machine for molding plastics. il Chem & Met Eng 31:391 S 8 '24
New molding press which is said to increase output; the Duo-press. il Automotive Ind 51:441 S 4 '24

MOLDINGS
Directions for the study of non-ignitable and self-extinguishing boards and mouldings for electrical purposes. diags Inst E E J 63:51-9 D '24

MOLDS (botany)
Moulds on frozen meats. A. M. Wright. Soc Chem & Ind J 42:488-90 D 14 '23

See also Fungi; Microorganisms; Mildew

MOLDS, Cast iron
Continuous casting; notes on the Holley process. il Automobile Eng 15:306 S '25
Discusses permanent molds. R. J. Anderson and M. E: Boyd. il diags Foundry 52:463-8, 510-13 Je 15-Jl 1 '24; Abstract. Automotive Ind 51:252-3 Jl 31 '24
Hold uniform temperature in permanent molds. P. Dwyer. il Foundry 53:787-90+ O 1 '25; Same. Iron Tr R 77:887-92 O 8 '25
How automobile tire molds are made. C: O. Herb. il diags Mach 30:497-500 Mr '24
Makes castings continuously in permanent molds; impregnating cast iron molds with zinc. il Foundry 53:387-90 My 15 '25; Same. Iron Tr R 76:1325-8 My 21 '25
Makes large condenser shell. H. A. Hart. diags Foundry 53:601-5 Ag 1 '25
Making castings without sand. il Sci Am 131: 101 Ag '24; Same. Brass W 20:344-5 O '24
Notes on permanent moulds for cast iron. il Engineer 140:327-8 S 25 '25
Permanent-mold aluminum castings and their field of usefulness. J. B. Chaffe, jr. Am Mach 63:743-4 N 5 '25; Abstracts. Iron Age 116:1116 O 22 '25; Metal Ind 23:399 O '25

MOLDS, Cast iron—*Continued*
Permanent mold casting methods cut production expense. D. H. Meloche. il Automotive Ind 50:711-14 Mr 27 '24; Abstracts. Mach 30: 582, 781 Ap, Je '24

See also Steel ingots—Molds

MOLDS (for casting)
Better design for a jug mold clinch. P. E. Cox. diags Am Cer Soc J 6:1230-1 D '23
Casting metals. W. J. Reardon. diags Metal Ind 22:7-8 Ja '24
Core protects bottom of ingot molds. J. Thomas. diags Foundry 53:35-6 Ja 1 '25
Discusses permanent molds. R. J. Anderson and M. E: Boyd. il diags Foundry 52:463-8, 510-13 Je 15-Jl 1 '24; Abstract. Automotive Ind 51:252-3 Jl 31 '24
Ingot mold foundry of the Vulcan mold & iron co., Latrobe, Pa. P. Dwyer. il plan Foundry 52:125-30 F 15 '24
Liquid celluloid to coat molds. Concrete 26: 213 Je '25
Machines supplant hand molding methods. P. Dwyer. il Foundry 53:647-50 Ag 15 '25
Making long life molds. O. Smalley. Foundry 52:294-7 Ap 15 '24
Metallurgy of iron dryer rolls. J. W. Bolton. il diags Iron Age 116:800-2 S 24 '25
Multiple molds made in loam. J. H. Eastham. diags plan Foundry 51:1002-3 D 15 '23
Plaster molds for intaglio work. E: D. Gleason. diags Metal Ind 23:53-4 F '25
Selling permanent mold castings demands time and patience. P. Dwyer. il Foundry 53:427-30 Je 1 '25
Semi-permanent molds. E: D. Gleason. diags Metal Ind 23:411-12 O '25
Simple moulds for concrete work. F. Jay. diags Bldg Age 46:84+ O '24
Some studies in mold handling. il plan Iron Age 116:272-4 Jl 30 '25

Blackening

Paints stove polish on mold. R. E. Masters. Foundry 52:114 F 1 '24

Cleaning

Cleaning metal molds for rubber with sand blast. H. B. Pickering. il India Rubber W 69:373-4 Mr '24

Drying

Cutting mould drying costs in half. A. Zander. il Gas Age 53:301-2+ Mr 8 '24; Same, abr. Foundry 52:482 Je 15 '24; Same. Iron Tr R 74:1696 Je 26 '24
Skin drying molds is an old practice. R. E. Masters. Foundry 52:690 S 1 '24

Testing

Formstoff- und formenprüfung. L. Treuheit. il diag Stahl & Eisen 43:1363-9, 1494-8 N 1, D 6 '23
Tests hardness of sand molds. E. Ronceray. diags Foundry 53:34-5 Ja 1 '25

MOLDS, Rubber
Rubber molds for plaster casts. il India Rubber W 70:441-2 Ap '24

MOLE littoria, Rome
The new risorgimento; aesthetic beauty and physical development. il Am Inst Arch J 13:19-21 Ja '25

MOLECULAR association
Evidence of association in carbon dioxide from the Joule-Thomson effect. F: G. Keyes. Am Chem Soc J 46:1584-92 Jl '24
Molecular association of furfural. F: H. Getman. J Phys Chem 29:395-8 Ap '25
Molecular association of liquids. E. E. Walker. Philos Mag 6th ser 47:513-25 Mr '24
Molecular association of liquids and highly-compressed gases. E. E. Walker. Philos Mag 6th ser 47:111-26 Ja '24

MOLECULAR attraction
Molecular attraction and molecular combination. O. Maass. diag J Fr Inst 198:145-59 Ag '24; Excerpt. Brass W 20:395-6 N '24
Molecular attraction and velocity of reactions at low temperatures of unsaturated hydrocarbons. O. Maass and C. H. Wright. Am Chem Soc J 46:2664-73 D '24
New energy relation governing liquids and vapors. J. E. Mills. J Phys Chem 29:68-73 Ja '25

MOLECULAR compounds. See Addition compounds

MOLECULAR dynamics
Impact experiments in compound gases; ammonia. A. T. Waldie. diags J Fr Inst 200: 507-18 O '25
Microforces: with reference more especially to orientation and curvature. F. Hannan. Am Water Works Assn J 10:1035-50 N '23; Abstract. Can Eng 44:556-8 Je 5 '23

See also Maxwell's distribution law

MOLECULAR heats. See Specific heat

MOLECULAR orientation
Bromo-alpha-naphthols and the orientation of certain classes of disubstituted naphthalene derivatives. R. C. Fuson. Am Chem Soc J 47:516-18 F '25
Influence of the orientation of surface molecules on the surface tension of pure liquids. S: Sugden. Chem Soc J 125:1167-77 My '24
Microforces: with reference more especially to orientation and curvature. F. Hannan. Am Water Works Assn J 10:1035-50 N '23; Abstract. Can Eng 44:556-8 Je 5 '23

MOLECULAR rearrangements
Action of inorganic halides on organometallic compounds. F: Challenger and F. Pritchard. Chem Soc J 125:864-75 Ap '24
Beckmann rearrangement. A. Lachman. Am Chem Soc J 46:1477-83; 47:260-5 Je '24, Ja '25
Effect of the acidity of acyl upon the migration from nitrogen to oxygen in ortho-aminophenols. L. C: Raiford and H. P. Lankelma. Am Chem Soc J 47:1111-23 Ap '25
Imino-aryl ethers; the molecular rearrangement of *N*-phenylbenziminophenyl ether. A. W: Chapman. Chem Soc J 127:1992-8 S '25
Mechanism of the Hofmann rearrangement of methyl aniline hydrochloride. J. W. Howard and C. G. Derick. Am Chem Soc J 46:166-77 Ja '24
Migration of groups in derivatives of benzoin and desylamine. A. McKenzie and R. Roger. Chem Soc J 125:844-54 Ap '24
Reaction velocity of rearrangement of potassium dibenzhydroxamate. G. Dougherty and L. W: Jones. Am Chem Soc J 46:1535-9 Je '24
Rearrangement of diphenyl-para-tolyl-acethydroxamic acid. C: D. Hurd and H: J. Brownstein. Am Chem Soc J 47:174-8 Ja '25
Role of weight of acyl in the migration from nitrogen to oxygen. L. C: Raiford and J: R. Couture. Am Chem Soc J 46:2305-18 O '24
Role of weight of acyl in the migration from nitrogen to oxygen. L. C: Raiford and C. E. Greider. Am Chem Soc J 46:430-7 F '24
Steric hindrance in the migration of acyl from nitrogen to oxygen. L. C: Raiford and C: M. Woolfolk. Am Chem Soc J 46:2246-55 O '24

MOLECULAR volume
Alternation in molecular volume of the normal monobasic fatty acids. W: E: Garner and E. A. Ryder. diag Chem Soc J 127:720-30 Mr '25

MOLECULAR weights
Density and molecular complexity of gaseous hydrogen fluoride. J. Simons and J. H. Hildebrand. diag Am Chem Soc J 46:2183-91 O '24
Molar weight of selenium dioxide in ethyl alcohol. E. B. R. Prideaux and G. Green. J Phys Chem 28:1273-8 D '24
Molecular weight and solution. W. D. Bancroft. J Phys Chem 29:966-72 Ag '25
Molecular weight of cholesterol. J. R. Partington and S. K. Tweedy. Chem Soc J 127:496-8 F '25
Molecular weight of oils. Gas J (Lond) 169: 84 Ja 14 '25
Rate of molecular weight increase in the boiling of linseed oil. J. S. Long and G. Wentz. Ind & Eng Chem 17:905-8 S '25

MOLECULAR weights—*Continued*

Rotatory dispersive power of organic compounds; the molecular weight of ethyl tartrate and the origin of anomalous rotatory dispersion in tartaric acid and its derivatives. T: M. Lowry and J: O. Cutter. Chem Soc J 125:1465-70 Jl '24

MOLECULES

Absorption spectra and molecular phases. R: A. Morton and H. Barnes. Chem Soc J 123: 2570-2 O '23

Average cross-sectional areas of molecules by gaseous diffusion methods. E: Mack, jr. diags Am Chem Soc J 47:2468-82 O '25

Colour and molecular geometry. J. Moir. diags Chem Soc J 125:1134-41, 1548-51 My, Ag '24

Colour and molecular geometry; a graphical presentation of the theory. J. Moir. Chem Soc J 127:967-72 My '25

Co-ordination of organic molecules. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 43: 218-21 F 29 '24

Determination of molecular diameters from surface-tension measurements. S. Mokroushin. Philos Mag 6th ser 48:765-8 N '24; Discussion. H. Sirk. 49:708-11 Ap '25

Duration of molecules in upper quantum states. R: C. Tolman. Phys R 23:693-709 Je '24

Electric moment and molecular structure. C: P. Smyth. Philos Mag 6th ser 47:530-44 Mr '24

Electric moment of gaseous molecules of halogen hydrides. C. T. Zahn. diags Phys R 24:400-17 O '24

Electric moments of the molecules of monocarboxylic acids and their esters. C: P. Smyth. Am Chem Soc J 47:1894-1900 Jl '25

Electric moments of typical organic molecules. C: P. Smyth. Am Chem Soc J 46: 2151-66 O '24

Fatty acid molecule. T. W. Jones. Soc Chem Ind J (Chem & Ind) 43:782-4 Ag 1 '24

Further X-ray measurements of long-chain compounds and a note on their interpretation. A. Müller and G: Shearer. Chem Soc J 123:3156-64 D '23

Magnetic properties of atoms and molecules. B. H. Wilsdon. Philos Mag 6th ser 49:1145-64 Je '25

Mean distance between neighboring molecules in a fluid. C. V. Raman. Philos Mag 6th ser 47:671-9 Ap '24

Mechanism of molecular activation. R. G. W. Norrish. bibliog Soc Chem Ind J (Chem & Ind) 43:327-8 Mr 28 '24

Moving picture of the molecules. diags Power 61:192 F 3 '25

New determination of the constant *N* of Avogadro, based on its definition. P. Lecomte du Noüy. Philos Mag 6th ser 48: 664-72, pl 13 O '24

Polarization of the light scattered by organic vapours. A. S. Ganesan. Philos Mag 6th ser 49:1216-22 Je '25

Refraction and electron constraint in ions and molecules. C: P. Smyth. Philos Mag 6th ser 50:361-75 Ag '25

Refractivity and the molecular phase hypothesis. E. C. C. Baly and R. A. Morton. J Phys Chem 28:659-67 Je '24

Restricted movements of molecules at very low pressures; a limit of applicability of the second law of thermodynamics. A. Fairbourne. diags Philos Mag 6th ser 43:1047-56 Je '22; Discussion. 45:414-15; 47:152-9 Mr '23, Ja '24

Structure of surface films on water. N. K. Adam. bibliog diags J Phys Chem 29:87-101 Ja '25

Surface tension of colloidal solutions and dimensions of certain organic molecules. P. Lecomte du Nouy. il Philos Mag 6th ser 48: 264-77 Ag '24; Abstract. J Fr Inst 198:811-12 D '24

Theory of molecular interaction in the liquid state. G. N. Antonoff. Philos Mag 6th ser 50:265-89 Jl '25

Tridentate groups in complexes of tetrahedral and octahedral symmetry. J. D. Main Smith. Chem Soc J 127:1682-7 Jl '25

Universal distance of the order of 10^{-8} cm. between the centres of nearest atoms. A. C. Crehore. diags Philos Mag 6th ser 49: 839-88 My '25

X-ray investigation of certain organic esters and other long-chain compounds. G: Shearer. Chem Soc J 123:3152-6 D '23

See also Atoms; Coordination (chemistry); Molecular weights; Optical rotation; Stereochemistry

MOLER. See Diatomaceous earth

MOLESWORTH, Guilford, 1828-1925

Sketch. por Engineering 119:141-3 Ja 30 '25; Engineer 139:137-8 Ja 30 '25

MOLYBDENITE

Floating and leaching copper-molybdenum ores. H. A. Doerner. flow sheet Eng & Min J 119:925-6 Je 6 '25

Molybdenite deposit near New Ross, Nova Scotia. C: W. Cook. Econ Geol 20:185-8 Mr '25

Molybdenite in the Rocky Bar district, Idaho. F. C. Schrader. maps U S Geol S Bul 750: 87-99, pl 12 '25

Some new thermoelectrical and actinoelectrical properties of molybdenite. W. W. Coblentz. U S Bur Stand Sci Pa 486:375-418 '24

MOLYBDENUM

Critical potentials in secondary electron emission from iron, nickle, and molybdenum. R. L. Petry. diag Phys R 26:346-59 S '25

Electron emission from tungsten, molybdenum and tantalum. S. Dushman and others. Phys R 25:338-60 Mr '25

Glazes colored by molybdenum. W. E. Barrett. Am Cer Soc J 8:306 My '25

Molybdenum. J: D. Cutter. Eng & Min J 119: 90 Ja 17 '25

Molybdenum and its applications. il Sci Am 130:167 Mr '24

Molybdenum, cerium and related alloy steels. H. W. Gillett and E. L. Mack. 299p [bibliog. p. 282-92] Chemical catalog co. '25

Molybdenum deposits. F. L. Hess. maps U S Geol S Bul 761:1-35, pl 1-10 '24; Abstract. Automotive Ind 53:502 S 24 '25

Molybdenum in cast steel and iron rolls. W. N. Bratton. il Iron Age 112:1509-10 D 6 '23

Molybdenum, its alloys and its applicability as an alloying constituent. P. Powell. Brass W 20:47-51, 117-23, 157-62 F, Ap-My '24

Richest ore of molybdenum. Eng & Min J 119:855 My 23 '25

Temperature scale and the melting point of molybdenum. A. G. Worthing. Phys R 25: 846-57 Je '25; Abstract. J Fr Inst 199:549-50 Ap '25

Thermal expansion of molybdenum. P: Hidnert and W. B. Gero. il U S Bur Stand Sci Pa 488:429-44 '24

World supplies of molybdenum. Engineering 120:110-11 Jl 24 '25

Analysis

Molybdenum. J. P. Bonardi. U S Bur Mines Bul 212:71-125; Bibliography. 125-30 '23

Rapid determination of molybdenum in steel. O. L. Maag and C. H. McCollam. Ind & Eng Chem 17:524 My '25

MOLYBDENUM alloys

Molybdenum, its alloys and its applicability as an alloying constituent. P. Powell. Brass W 20:47-51, 117-23, 157-62 F, Ap-My '24

Some alloys of nickel and molybdenum. Engineer 139:sup93-5 Je 26 '25

See also Molybdenum steel

MOLYBDENUM halides

Action of ammonia and of a solution of potassium amide in liquid ammonia on certain halides of molybdenum and tungsten. F. W. Bergstrom. diag Am Chem Soc J 47:2317-23 S '25

MOLYBDENUM oxalates

Compounds of tervalent molybdenum; new oxalates. W: Wardlaw and W: H: Parker. diag Chem Soc J 127:1311-18 Je '25

MOLYBDENUM oxides
Studies on the ignition of precipitates; the conversion of molybdenum sulfide to oxide, and the volatility of molybdenum trioxide. P. H. M.-P. Brinton and A. E. Stoppel. Am Chem Soc J 46:2454-7 N '24

MOLYBDENUM oxysulfate
Compounds of tervalent molybdenum; a new oxysulphate. W: Wardlaw, F. H. Nicholls and N. D. Sylvester. Chem Soc J 125:1910-13 S '24

MOLYBDENUM pentoxide
Molybdenum pentoxide. W: Wardlaw and F. H. Nicholls. Chem Soc J 127:1487-8 Je '25

MOLYBDENUM steel
Four molybdenum steels proposed. Soc Auto Eng J 16:588 Je '25

Testing
Endurance tests of molybdenum steels. Am Mach 59:760 N 22 '23
Some endurance tests of metals. H. W. Gillett and E. L. Mack. il diags Am Soc T M Pro 24 pt 2:476-544; Discussion. 601-17 '24

MOLYBDENUM sulfide
Studies on the ignition of precipitates; the conversion of molybdenum sulfide to oxide, and the volatility of molybdenum trioxide. P. H. M.-P. Brinton and A. E. Stoppel. Am Chem Soc J 46:2454-7 N '24

See also Molybdenite

MOLYBDENYL monochloride
Compounds of tervalent molybdenum; molybdenyl monochloride. W: Wardlaw and R. L: Wormell. Chem Soc J 125:2370-2 N '24

MOMENTS of inertia
Moment of inertia. O. M. Burkhardt. Mach 31:215 N '24
Section modulus of unsymmetrical sections. E. Latshaw. diags Mach 31:518 Mr '25

MONASTERIES
Monastery for Redemptorist Fathers, Oconomowoc, Wis.; views and plans. Am Arch 128: pl 296-300 N 5 '25

MONCTON, New Brunswick
Water supply
Water motors inject chlorine at Moncton, N.B. J. van Benschoten. diag plan Can Eng 46:281-2 F 26 '24; Same. Eng & Contr (W W) 61:589-91 Mr 12 '24

MOND, Ludwig
Life and work of Dr Ludwig Mond. H. B. Dixon. Chem Age (Lond) 12:31 Ja 10 '25
Sketch. H. B. Dixon. Chem Age (Lond) 11: 423 O 25 '24; Same. Soc Chem Ind J (Chem & Ind) 43:1076-7 O 31 '24

MOND nickel company
Anniversary dinner of the Mond nickel co. A. Mond. Chem Age (Lond) 13:35 Jl 11 '25
Mond nickel anniversary celebrations at Clydach. il Chem Age (Lond) 13:299-300 S 19 '25
Twenty-fifth anniversary of the Mond nickel company. Chem Age (Lond) 13:7 Jl 4 '25

MONEL metal
Casting composition around monel; battleship turbine buckets re-made in unusual way. B. R. Ware. il Iron Age 116:1026-7 O 15 '25
Characteristics of monel metal; reference-book sheet. Am Mach 63:403, 445 S 3-10 '25
Comparison of monel and copper kettles in boiling linseed oil. C. Fichandler. Ind & Eng Chem 17:478-80 My '25
Corrosion of monel metal calorimeter bombs. J. C. Geniesse and E. J. Soop. Ind & Eng Chem 17:1197-9 N '25
Corrosion of monel metal in photographic solutions. J. I. Crabtree and G. E. Matthews. il Ind & Eng Chem 16:671-5 Jl '24
Electric welding of monel metal; abstract. Mech Eng 46:494 Ag '24
Information regarding monel metal. Marine Eng 29:621-3 O '24
Machining monel metal and nickel. diags Mach 30:287-8 D '23
Machining of monel metal castings. Brass W 20:46 F '24
Monel metal for dyeing, bleaching and finishing equipment. R. J. McKay and E. A. Turner. il Am Dyestuff Rep 13:54-62 Ja 28 '24
Monel metal side sheets stand up in Dayton. il Elec Ry J 65:730 My 9 '25
Nickel and its alloys. 2d ed. il U S Bur Stand Circ 100:53-66 '24
Non-ferrous metallurgy in America. W: M. Corse. Iron Age 114:693-4 S 18 '24
Properties and uses of monel metal. H. Seymour. Chem Age (Lond) 12:sup3 Ja 3 '25
Relation of monel metal to dyeing and textile machinery. J: F. Haerry. Chemicals (Dyestuffs sec) 17:117 N 9 '25
Sand casting monel metal. il Metal Ind 23: 55-6 F '25
La soudure autogène du métal monel. Génie Civil 86:565 Je 6 '25

Testing
Available data on the properties of non-ferrous metals and alloys at various temperatures. C. Upthegrove and A. E. White. Am Soc T M Pro 24 pt 2:113-19 '24
Measuring metal's resistance to shock. R. G. Waltenberg. Chem & Met Eng 31:657-8 O 27 '24; Abstract. Mech Eng 47:51-2 Ja '25

MONEY
Banking conditions. Nat City Bank p 86-9 Je '24
Business conditions and currency control. W: T. Foster and W. Catchings. charts Harvard Business R 2:268-81 Ap '24
Cheap money, gold, and Federal reserve bank policy. B. M. Anderson, jr. Chase Econ Bul 4:3-26 Ag 4 '24; Excerpts. Comm & Fin Chr 119:651-2 Ag 9 '24; Econ W n s 28: 184-6 Ag 9 '24
Commodity prices and the gold standard. R. McKenna. Manuf Rec 87:69-72 Mr 12 '25
A concertina currency. H. Withers. Annalist 23:132 Ja 21 '24
Discussion on monetary reform. E. Cannan and others. Econ J 34:155-76 Je '24
Eastern exchange currency and finance. W: F. Spalding. 4th ed. 468p Pitman '24
Economic theorists among the servants of John company (1766-1806). J. C. Sinha. Econ J 35:47-59 Mr '25
European movement of United States currency. Comm & Fin Chr 121:665 Ag 8 '25
General survey of 1924 in the financial district. Annalist 25:54-6 Ja 5 '25
Gold and silver imports and exports. Published in monthly numbers of Federal reserve bulletin
Gold, silver and world currency. F. W. Hirst. Econ W n s 27:544-6 Ap 19 '24
Gold standard versus a managed currency; with some observations on the quantity theory of money. B: M. Anderson, jr. Chase Econ Bul 5:3-39 Mr 23 '25; Same. Comm & Fin Chr 120:1548-9 Mr 28 '25; Same cond. Bankers M 110:626 Ap '25; Summary. Econ W n s 29:449-50 Mr 28 '25
Has the time come for world currency reform? M. Ives. Am Bankers Assn J 17: 681-2+ My '25
His specialty is doctoring sick currencies; Dr. E. W. Kemmerer of Princeton, financial adviser to nations. R. A. Lewis, jr. Am Bankers Assn J 18:5-8 Jl '25
Importance of foreign currency and exchange investigation of Senate commission to agricultural industry and foreign trade. Comm & Fin Chr 119:1353-4 S 20 '24
Limitation of currency or limitation of credit. E. Cannan. Econ J 34:51-64; Discussion. J. M. Keynes. 65-8 Mr '24
Monetary policy of the future. J. R. Bellerby. Econ J 34:177-87 Je '24
Monetary reform. J: M. Keynes. 227p Harcourt '24; Review by E: A. Bradford. Annalist 23:505+ Ap 28 '24
Money. G: C. Edwards. 113p Wetzel bros. ptg. co., 2129-2133 Center st., Berkeley, Cal. '23
Money and banking. J: T. Holdsworth. 4th ed., rev. & enl. 564p Appleton '23
Money and the exchanges. Nat City Bank p 126-7 Ag '25

MONEY—*Continued*

Money in fetters, its history and mystery candidly related. H: Lowenfeld. 108p J. Murray, London '24

Money: its connexion with rising and falling prices. E. Cannan. 4th ed., rev. 106p P. S. King & son, Westminster '23

New faces in the world of currency. L: Alexander. Am Bankers Assn J 16:781-2 Je '24

Plan for stabilizing prices. G. N. Lewis. Econ J 35:40-6 Mr '25

Quest for stable money. L: Alexander. Am Bankers Assn J 18:23+ Jl '25

Real money versus false money—bank credits. T: C. Daniel. 338p Monetary educ. bur., Washington '24

Reginald McKenna on the relation between the supply of money and the state of industry and trade. A. R. Marsh. Econ W n s 27:327-8 Mr 8 '24

Some phases of monetary reform now under discussion both in this country and abroad. H. F. Boettler. Econ W n s 28:220-4 Ag 16 '24

Stabilisation; an economic policy for producers and consumers. E. M. H. Lloyd. 140p Knopf '23

State theory of money. G: F. Knapp. 306p Published on behalf of the Royal economic society by Macmillan and co., limited, London '24

Unstable dollar causes coal's wage troubles. I. Fisher. Coal Age 28:319 S 3 '25

See also Bank notes; Banks and banking; Capital; Coins; Credit; Finance; Foreign exchange; Gold as money; Hoarding; Index numbers (economics); Inflation (finance); Investments; Mints; Negotiable instruments; Paper money; Prices; Shell money; Silver as money; *also* Stable money association

Argentina

Projected new currency of Argentina. Econ W n s 28:199 Ag 9 '24

Australia

Monetary standards of New Zealand and Australia. A. H. Tocker. Econ J 34:556-75 D '24

Austria

Effect of currency stabilization on Austrian wages. Monthly Labor R 21:748-50 O '25

Substitution of the schilling for the crown as the monetary unit of Austria. Econ W n s 29:415 Mr 21 '25

Belgium

Projected stabilization of the currency of Belgium. Econ W n s 30:629-30 O 31 '25

Canada

Canadian dollar in relation to the gold standard. Econ W n s 29:737 My 23 '25

Reasons in favor of an early resumption of gold payments in Canada. Econ W n s 27: 666-7 My 10 '24

Chile

Puzzle of the Chilean peso's plunge. G. B. Sherwell. chart Am Bankers Assn J 16:785-90 Je '24

China

Standardization needed in China. Am Ind 25: 44-5 Ap '25

Denmark

Rise in Danish and Norwegian exchange. Comm & Fin Chr 121:1040 Ag 29 '25

Stabilization of the Danish krone. Econ W n s 29:379 Mr 14 '25

Europe

Dollars vs. pound in Europe. E. Lengyel. Annalist 24:236 S 8 '24

European currencies. Index p 3-4 Mr '25

Keynote of Europe's revival. W. T. Layton. Am Bankers Assn J 17:377-8+ D '24; Same. Econ W n s 28:917-19 D 27 '24

Postwar currency units in Europe. Comm M 5:14-15 Mr '24

Report of Senate commission of gold and silver inquiry on European currency and finance—general currency conference recommended. Comm & Fin Chr 120:777-8 F 14 '25

France

L'évolution du franc. M. Lambert. Chimie & Ind 12:165-6 Jl '24

Plans for issuance of gold franc proposed by Bank of France not to be resorted to. Comm & Fin Chr 120:1832 Ap 11 '25

Possibility of France returning to gold standard. Comm & Fin Chr 120:2361 My 9 '25

Germany

Adaptation of wages to the depreciation of the currency in Germany. F. Sitzler. Int Labour R 9:643-66 My '24

Currency reorganization in Germany. Fed Res Bul 10:636-7 Ag '24; Same. Econ W n s 28: 269-70 Ag 23 '24

Depreciation of the German currency and the Dawes plan. E: S. Chapin. Am Dyestuff Rep 14:325-31; Discussion. 331-2 My 18 '25

Dr. Schacht on the necessity of a real gold basis for the new German bank of issue. Econ W n s 28:161-2 Ag 2 '24

End of Germany's old paper mark currency. Econ W n s 29:414-15 Mr 21 '25

Eröffnungsbilanzen in goldmark. R. Haas. Elektrotech Zeit 45:705-7 Jl 3 '24

Un essai de réforme monétaire en Allemagne. M. Lambert. Chimie & Ind 10:961-3 N '23

Foreign control of Germany's money system. Annalist 23:166 Ja 28 '24

German government's program for minting new silver coins. Econ W n s 27:738-9 My 24 '24

German note circulation. Nat City Bank p 15 Ja '24

Germany's sound money Luther. R. C. Long. Am Bankers Assn J 17:549-50 Mr '25

Moderne währungsreformen. A. Hesse. Stahl & Eisen 44:561-5 My 15 '24

Rentenmark, the Schacht credit gold bank and the stabilization of German currency. G: Bernhard. Econ W n s 27:845-6 Je 14 '24

Die rentenmark und die golddiskontbank. R. Von Ungern-Sternberg. Elektrotech Zeit 45: 430-2 My 1 '24

Restoration of the gold basis in Germany and the capital of German banks. Econ W n s 29: 116-17 Ja 24 '25

Wege und ziele der deutschen währungsreform. F. Beckmann. Stahl & Eisen 44:249-56 Mr 6 '24

Great Britain

Agitation in Great Britain on gold standard issue. Comm & Fin Chr 120:1687 Ap 4 '25

Bankers and credit. H. Withers. 294p E. Nash & Grayson, ltd., London '24

Bearing of labour unrest upon the path to be taken to sound currency. A. Hoare. Roy Statis Soc J 88:379-89; Discussion. 390-402 My '25

British gold standard act and report of committee on currency. Fed Res Bul 11:375-8 Je '25; Same. Comm & Fin Chr 121:654-6 Ag 8 '25

British government's program for the restoration of the gold standard. Econ W n s 29:629-30 My 2 '25

British monetary policy in relation to gold, as seen from South Africa. S. Evans. Econ W n s 28:17-19 Jl 5 '24

British trade and a managed currency. Econ W n s 29:701-2 My 16 '25

Committee on the currency and Bank of England note issues. Economist 100:851-3 My 2 '25; Excerpts. Comm & Fin Chr 120:2359-60 My 9 '25

Criticism of Great Britain's gold policy. J. M. Keynes. Comm & Fin Chr 121:527-8 Ag 1 '25

Dollar and the pound. Economist 99:856-7 N 29 '24; Econ W n s 28:910-11 D 27 '24

MONEY—Great Britain—*Continued*
Early return to gold. Economist 99:907-8 D 6 '24; Same. Econ W n s 29:17-18 Ja 3 '25
English financial opinion about the proper monetary policy for Great Britain. Econ W n s 27:881-2 Je 21 '24
English financial opinion about the recent rise of the dollar value of the pound sterling. Econ W n s 28:846-7 D 13 '24
Factors affecting the return of the pound sterling to gold parity. F: C. Goodenough. Econ W n s 29:263 F 21 '25
Federal reserve board on return of Great Britain to gold standard. Comm & Fin Chr 120:2886-7 Ja 6 '25; Same abr. Fed Res Bul 11:369-73 Je '25; Same. Econ W n s 29:917-19 Je 27 '25
Gold standard bill passed by British House of Commons. Comm & Fin Chr 120:2356-7 My 9 '25
Great Britain and the gold standard. C: E. Lyon. Econ W n s 29:485-6 Ap 4 '25
Great Britain resumes gold payments. Nat City Bank p 72-3 My '25
Great Britain's monetary policy. F. Schuster. Econ W n s 28:234-5 Ag 16 '24
Great Britain's return to the gold standard. Bankers M 110:1021-4+ Je '25
London expects parity for sterling in 1925. Annalist 25:124+ Ja 19 '25
London money and discounts, 1924. Annalist 25:61 Ja 5 '25
Monetary control—the power of a central bank. H. Withers. Comm & Fin Chr 120: 1265 Mr 14 '25
Objections to a managed currency. C: E. Lyon. Am Bankers Assn J 17:186-7 S '24; Same. Econ W n s 28:449-50 S 27 '24
Pound and the dollar. Index p 7-8 F '25
Pound sterling; comment of English authorities on its approach to parity. Index p 10-11 Ja '25
Question of Great Britain's ability to maintain gold payments. Econ W n s 29:371 Mr 14 '25
Report of the committee on the currency and Bank of England note issues. J. M. Keynes. Econ J 35:299-304 Je '25
Return of gold standard of Great Britain—gold exports to be permitted. Comm & Fin Chr 120:2216-17, 2358-61 My 2-9 '25
Return to gold. Economist 100:844-6 My 2 '25
Return to gold in England. F. Plachy, jr. il Burroughs Clearing House 9:5-7+ My '25
Sterling par—effect in America. I. Wright. Burroughs Clearing House 10:5-7+ O '25
Swiss bank corporation on return of Great Britain to gold standard. Comm & Fin Chr 121:803 Ag 15 '25
What the return to gold means. R. Hobson. Am Bankers Assn J 17:674+ My '25
When sterling goes to par. Comm & Fin 14: 240 F 4 '25

See also Money—South Africa

Guatemala

New coins of Guatemala. F. S. Latour. il Am Bankers Assn J 18:164 S '25

India

Currency situation and the market for silver in India. F: E. Lee. Econ W n s 28:510-12 O 11 '24
Increased demand for silver in the world's markets, with special reference to India. Econ W n s 29:9-11 Ja 3 '25
Indian currency and exchange. Economist 99: 685-7 N 1 '24
Indian finance and currency. Economist 101: 181-2 Ag 1 '25

Italy

Currency situation in Italy at the end of 1924. R. Bacchi. Econ W n s 29:400-3 Mr 21 '25
Internal value of the Italian lira in relation to Italy's foreign trade. P. M. Copp. Econ W n s 29:112-15 Ja 24 '25
Italy's return to specie payments. Comm & Fin Chr 120:2099-2100 Ap 25 '25
Lira revaluation the solution of Italy's economic problems. L. Caselli. Annalist 26:426 O 2 '25

Japan

Japan's gold holdings on March 31, 1925. Econ W n s 29:846-7 Je 13 '25
Recent currency and exchange policy of Japan. G. C. Allen. Econ J 35:66-83 Mr '25

Mexico

Mexican monetary system unified. Eng & Min J 120:136 Jl 25 '25; Same. Econ W n s 30:19 Jl 4 '25

New Zealand

Monetary standards of New Zealand and Australia. A. H. Tocker. Econ J 34:556-75 D '24

Norway

Rise in Danish and Norwegian exchange. Comm & Fin Chr 121:1040 Ag 29 '25

Poland

Bank of Poland and the stabilization of the Polish currency. F. Mlynarski. Econ W n s 29:521-2 Ap 11 '25
Polish zloty. Economist 101:300-1 Ag 22 '25; Same. Econ W n s 30:414-15 S 19 '25
Why zloty has dropped in value. F. Mlynarski. Comm & Fin Chr 121:1170 S 5 '25

Rumania

Currency and foreign exchange. L: E. Van Norman. U S Bur For & Dom Com 222:39-46 '24

Russia

Economic difficulties attending the introduction of the Tchervonetz currency in Russia. Econ W n s 27:191 F 9 '24
Monetary policy of the Soviet government. Economist 98:615-16 Mr 22 '24
Russian gold reserve—what became of it? Economist 100:1066-7, 1174-6 My 30, Je 13 '25
Russian statement of the success of currency reform in soviet Russia. Econ W n s 29: 522-3 Ap 11 '25
Wages and currency reform in soviet Russia. Int Labour R 10:800-24 N '24
What became of Russian bank's gold. Comm & Fin Chr 121:277 Jl 18 '25

South Africa

Gold resumption in South Africa. Index p 13-14 Ap '25
Managed money movement in the British Empire as viewed from South Africa. S: Evans. Econ W n s 27:580-3 Ap 26 '24
South Africa and the gold standard. Fed Res Bul 11:172-80 Mr '25
Work of the gold standard inquiry commission of the Union of South Africa. E. W. Kemmerer. Econ W n s 29:869-71 Je 20 '25

Sweden

Beneficial economic effects of the restoration of the gold standard in Sweden. Econ W n s 28:703 N 15 '24
Return of Sweden to gold standard. Comm & Fin Chr 120:1279-80 Mr 14 '25

United States

American currency in other countries. M. Ives. Am Bankers Assn J 16:495-6 F '24; Same. Econ W n s 27:364-6 Mr 15 '24
Canadian banking view of the gold problem of the United States. Econ W n s 27:694-5 My 17 '24
Financial marvels in resumption; address before the American bankers association at Saratoga, N.Y., August, 1879. J: J. Knox. Am Bankers Assn J 18:215+ O '25
Gold and inflation. Bankers M 109:1057-8 D '24
History of currency in the United States. A. B. Hepburn. Rev. ed. 573p [bibliog. p. 543-64] Macmillan '24
In quest of the ideal currency. B. Davenport. Am Bankers Assn J 17:384-5+ D '24
Misapprehensions as to the volume of American dollars in Europe. J. D. Holmes. Econ W n s 27:547-9 Ap 19 '24
Money in circulation. Published monthly in Federal reserve bulletin

MONEY—United States—*Continued*
Paper money may be reduced in size. R. A. Lewis, jr. il Am Bankers Assn J 18:317-19 N '25
Stock of money and the money in circulation in the United States on January 1, 1924. Econ W n s 27:88 Ja 19 '24
They refused gold. il Am Bankers Assn J 18: 216-17 O '25
Treasury department printing greater amount of paper money than ever before—proposed changes in denominational issues. Comm & Fin Chr 120:2771 My 30 '25
Uncle Sam plans to tidy up the paper money. L. Alexander. Am Bankers Assn J 17:745+ Je '25
What the federal reserve system has done to our currency. W. R. Burgess. Am Bankers Assn J 17:599-601 Ap '25
When the banks say no to money. S. Bent. Nation's Business 12:28-9 O '24
See also Gold as money

MONEY orders
See American express company

MONEY raising campaigns
Bishop's thoughts on salesmen's calls; raising funds for Cathedral of St John the Divine. Ptr Ink 130:33-4 Ja 22 '25
Charity raises $90,507 by mail at a cost of 3 per cent. E. A. Rowell. Ptr Ink 130:57-8+ F 26 '25
City learns how to raise funds for paid advertising campaign. Ptr Ink 126:114-15 F 28 '24
Detroit's "Y" raises $5,471,323 in eleven days. Ptr Ink 131:121-2 Je 11 '25
Does philanthropic advertising pay? D. Gridley. Ptr Ink 128:97+ S 18 '24
Indirect salesmanship in direct advertising. R. D. Skinner. Ptg Art 43:45-7 Mr '24
Raising money for philanthropy by modern selling methods. B. F. Berfield. Ptr Ink M 8:25-7+ Ja '24
75 per cent of the prospects subscribed to this church campaign. A. W. Sullivan. il Ptr Ink M 10:74+ Je '25

MONGOLIA
See Geology—Mongolia

MONOBROMODIETHYL ether
Preparation of halogen-substituted ethers. H. P. Foran. Soc Chem Ind J 44:173-4 Ap 17 '25

MONOCHLOROMETHYL ethyl ether
Preparation of halogen-substituted ethers. H. P. Foran. Soc Chem Ind J 44:173 Ap 17 '25

MONOGERMANE
Germanium; the physical properties of monogermane. R. B. Corey, A. W. Laubengayer and L. M. Dennis. diag Am Chem Soc J 47: 112-17 Ja '25

MONOMOLECULAR reactions
Recombination of gaseous ions, the chemical combination of gases, and monomolecular reactions. J. J. Thomson. diags Philos Mag 6th ser 47:337-78 F '24

MONOPLANE. See Airplanes

MONOPOLY
See Government monopolies; Trusts, Industrial

MONORAIL railroads. See Railroads, Monorail

MONOTYPE
Building monotype machines. C: O. Herb. il diags Mach 32:1-5 S '25
Origin and development of the Lanston monotype composing machine. H: L. Bullen. il Inland Ptr 73:228-32 My '24

MONROE, Louisiana
City where happiness and success are found. il Manuf Rec 86:469 pt 2 D 11 '24

MONROE, Michigan
Water supply
Lake Erie water purified for Monroe. il diags plan Power Pl Eng 29:828-33 Ag 15 '25

MONSOONS
Indian monsoons and floods in 1924. R. Ryves. Engineer 139:290-1 Mr 13 '25

MONTAN wax
Bituminous wax. Soc Dyers & Col J 41:182 My '25

MONTANA
See Coal—Montana; Floods—Montana; Geology—Montana; Gold mines and mining—Montana; Mines and mineral resources—Montana; Mining industry and finance—Montana; Petroleum—Montana; Water power—Montana

MONTEREY, California
Rapid transit
Railway tangle in Monterey. Elec Ry J 62:873 N 17 '23

MONTGOMERY, Alabama
Water supply
From filters to small wells then to large wells. W. A. Cone. il Eng N 95:216-17 Ag 6 '25

MONTICELLO, Virginia
Monticello. F. Kimball. il Am Inst Arch J 12: 174-81 Ap '24

MONTREAL, Quebec
Bridges
Improvement in highway bridge design. C. J. Desbaillets. il Can Eng 49:517-19 N 3 '25
Harbor
Development of the port of Montreal. M. T. Sheehy-Casey. il Can Eng 47:513-18 N 18 '24
Railroads
Montreal railway terminals. Can Eng 47:304 S 2 '24
Rapid transit
Committee reports at Montreal. Elec Ry J 62: 952 D 1 '23
Montreal tramways company, annual report for year ended June 30, 1925. Comm & Fin Chr 121:2032 O 24 '25; Elec Ry J 66:455-6 S 19 '25
Montreal tramways has surplus of $548,695. Elec Ry J 64:862 N 15 '24
Water supply
Municipal water works system, Montreal. C. J. Desbaillets. Can Eng 48:300-2 Mr 10 '25

MONTREAL stock exchange
Record of prices on the Montreal stock exchange. Comm & Fin Chr 120:1267-8 Mr 14 '25

MONUMENTS
First Division monument, Washington, D.C. il diags Am Arch 126:525-30, pl 177-9 D 3 '24
See also Memorials; Stone Mountain monument
Lighting
Floodlighting the Cenotaph. Electrician 92: 127, 168-9, 198, 230 F 1-22 '24

MONUMENTS, Concrete
American pyramid a sure bet against the elements. B. M. Riggs. Concrete 26:161 My '25
Davis monument—country's second highest. il Concrete 25:151-3 O '24

MOODY, John
The man who puts investments through the third degree. B. C. Forbes. por il Forbes 15: 21-3+ O 1 '24

MOON
Volcanoes—or cosmic shell-holes? D. M. Barringer. il Sci Am 131:10-11+, 102+ Jl-Ag '24

MOORE, Daniel McFarlan, 1869-
Thirty years in the dark room; the experiments of Dr D. McFarlan Moore. W. B. Arvin. il Radio N 7:768-9+ D '25 (to be cont)

MOORE, Hugh Kelsea
Appreciation of a great chemist. D: Wesson. Chem Age 33:48-50 F '25

MOORE, Hugh Kelsea—*Continued*
Hugh Kelsea Moore and his work. J: C. Olsen. Chem Age 33:25-8 Ja '25
H. K. Moore is awarded Perkin medal for 1924. Oil Paint & Drug Rep 106:19 O 27 '24
Perkin medalist for 1925. por Chem & Met Eng 32:169 Ja 26 '25; Oil Paint & Drug Rep 107:19+ Ja 19 '25; Paper 35:587-9+ Ja 22 '25

MORDANTS. See Dyes and dyeing—Mordants; Zinc ferrocyanide

MORGAN, Anne
Two notable houses on Sutton place, New York; the homes of Mrs. W. K. Vanderbilt and Anne Morgan. il plans Arch Forum 41: 49-60, pl 17-24 Ag '24

MORGAN, Henry, & company
New building for Henry Morgan & co, Montreal. il Can Eng 46:183-6 Ja 29 '24

MORGAN, John Pierpont
Mr Baker and Mr Morgan. M. Sykes. Comm & Fin 14:160 Ja 21 '25

MORGAN library
Banker Morgan's $8,500,000 gift. C. Honsford. il Am Bankers Assn J 16:566-7 Mr '24
Pierpont Morgan library conveyed by J. P. Morgan to Board of trustees as memorial to his father. Comm & Fin Chr 118:872-3 F 23 '24

MORINDONE
Trihydroxy-methylanthraquinones; synthesis of morindone. R. A. Jacobson and R. Adams. Am Chem Soc J 47:283-90 Ja '25

MORLAIX columns. See Columns

MOROCCO
Crisis in Morocco. Economist 101:48-9 Jl 11 '25
L'essor économique du Maroc. V: Cambon. Chimie & Ind 14:137-40 Jl '25
International intrigue for Moroccan iron. C. De Kalb. Manuf Rec 87:71-3 Je 11 '25
Problem of Morocco. Economist 99:1000-1 D 20 '24

Industries and resources
L'exploitation scientifique du Maroc. V: Cambon. map Chimie & Ind 11:1217-20 Je '24

MORRIS, William
Master of printing. Inland Ptr 75:59-60 Ap '25

See also Kelmscott press

MORRIS canal, New Jersey
Dismantling oil canal involves rebuilding many structures. C. C. Vermeule. Eng N 93: 797-8 N 13 '24

MORRISTOWN, New Jersey

Water supply
One of oldest private water-works taken by city. Eng N 91:1010 D 20 '23

MORROW, James Binckley, 1855-1924
A business author. G: H. Cushing. Nation's Business 12:46 Ag '24

MORSE chain company
Story of Morse chain. C. J. Priebe. il plan Am Mach 60:737-40, 811-14, 887-9, 959-62; 61:69-71, 145-8 My 15, 29, Je 12, 26, Jl 10, 24 '24

MORTALITY
American men table of mortality. A. Partrick, jr. Spectator 113:33 O 16 '24
Death rate among the industrial populations of American states and Canadian provinces. Econ W n s 27:602-3 Ap 26 '24
Engineers and the public health. F. A. Dallyn. Can Eng 47:583-8 D 9 '24
Health of the army. F: L. Hoffman. Spectator 114:31-3 Ja 22 '25
Highly favorable health record of the United States and Canada in 1923. Econ W n s 27: 241-3 F 16 '24
Increasing mortality from heart diseases and chronic nephritis compared with the decreasing mortality from tuberculosis. Econ W n s 30:207 Ag 8 '25
Latest investigation of the longevity of British annuitants. Econ W n s 29:529-30 Ap 11 '25
Mortality experience of a Japanese life insurance company. F: L. Hoffman. Spectator 113:23-5 O 2 '24
Mortality experience of the first quarter of 1925 in the United States and Canada. Econ W n s 29:671 My 9 '25
Mortality in Germany, 1913-1921. E. Roesle. Am Statis Assn J 20:164-78 Je '25
Mortality record of the first half of 1925 in the United States and Canada. Econ W n s 30:314-15 Ag 29 '25
Nation's health. Economist 99:300-1 Ag 23 '24; Same. Econ W n s 28:421-2 S 20 '24
Percentage of actual to expected mortality, 1909-1923. Spectator 113:17 O 16 '24
Percentage of actual to expected mortality—1910-1924. Spectator 115:11 S 10 '25
Progress of the warfare against disease. O. H. Rogers. Spectator 113:20-1 D 18 '24
Public health in the United States and Canada in 1924. Econ W n s 29:240-2 F 14 '25
Recent British investigations of the mortality of annuitants. R. D. Miller. Econ W n s 30:382-4 S 12 '25
Should the American men mortality table be made permissive as a legal valuation standard? W: M. Corcoran. Spectator 115:33+ S 17 '25
Trend of mortality. P. H. Evans. Spectator 114:3+ Je 18 '25; Same. Econ W n s 30:93-5 Jl 18 '25
Tuberculosis death rate among industrial populations of American cities and Canadian provinces; abstracts. Econ W n s 27:783 My 31 '24; Monthly Labor R 19:193-4 Jl '24
U.S. mortality review 1910-1920. F: L. Hoffman. Spectator 112:34-5+ Mr 6 '24
Vital statistics of Sweden and England and Wales: an essay in international comparison. M. Greenwood. Roy Statis Soc J 87: 493-531; Discussion. 532-43 Jl '24
Wider application of the Gompertz law of mortality. H. L. Trachtenberg. Roy Statis Soc J 87:278-90 Mr '24

See also Cancer; Infant mortality; Negroes in the United States—Mortality

MORTAR
Behavior of cement mortar and concrete in German bogs. Concrete 24:207-8 My '24
Catechism of central station gas engineering in the United States; making lime mortar. Am Gas J 122:493-4, 534, 553-5 Je 6, 20-27 '25
Consistency of lime pastes and mortars. W. E. Emley. Am Soc T M Pro 23 pt 2:440-2 '23
Influence of aggregates upon shrinkage of mortar and concrete. C. M. Chapman. il Am Soc T M Pro 24 pt 2:767-77; Discussion. 778-80 '24
Limestone planer dust in mortars. Concrete 26:182 My '25
Modern mixing methods. A. W. Allen. il Chem & Met Eng 29:1186-8 D 31 '23; Same. Eng & Contr (Bldgs) 61:1160 My 28 '24
New method for determining water required for standard mortar consistency. Eng & Contr (R & S) 61:1246 Je 4 '24
Notes on gypsum mortars and mortar consistency. H. S. Brookby. Am Soc T M Pro 23 pt 2:448-52 '23
Use of hydrated lime in Portland cement mortar. Am Arch 127:399-400 Ap 22 '25

Testing
Effect of alkali on strength of mortar. C: E. Proudley. chart Pub Roads 5:25-7 My '24; Same. Eng & Contr (R & S) 61:1205-6 Je 4 '24; Same, without chart. Concrete 25:12 Jl '24
Fatigue of mortar. R. B. Crepps. il diags Am Soc T M Pro 23 pt 2:329-37 '23; Same. Can Eng 46:151-3 Ja 15 '24; Discussion. Am Soc T M Pro 23 pt 2:338-40 '23

MORTGAGES
Adding a profitable department to the savings bank; real estate loan department. T. R. Durham. Am Bankers Assn J 18:213-14+ O '25; Same. Comm & Fin Chr 121:138-41; Discussion. 145-6 sec 2 O 17 '25

MORTGAGES—*Continued*
Banker's place in real estate mortgage field. F. J. Parsons. Comm & Fin Chr 119:152-4 sec 2 O 18 '24; Same. Am Bankers Assn J 17:226-7+ O '24; Excerpts. Bankers M 109: 826-7+ O 31 '24; Discussion. Comm & Fin Chr 119:154-6 sec 2 O 18 '24
Farm-mortgage interest rates. C. F. Wigder. charts maps J Land & Pub Util Econ 1: 102-17 Ja '25
Federal mortgage bond investigation? Comm & Fin 14:1225 Je 24 '25
German mortgage bonds. Moody's Inv Serv 17:253-6 Jl 30 '25
Growth of investments in real estate mortgages. Comm & Fin Chr 121:261 Jl 18 '25
Growth of mortgage sales. H. S. Cody. Comm & Fin Chr 120:509-10 Ja 31 '25
Investment mortgage survey. R. D. Maxwell. Published in bi-weekly numbers of Forbes
Mortgage in the investment field. G: C. Cox. Annalist 22:843-4; 23:107+, 135-6 D 31 '23, Ja 14-21 '24
Mortgages loan investments by banking institutions. L. D. Woodworth. Comm & Fin Chr 119:2579-80 D 6 '24
National bank real estate loans. L: Alexander. Am Bankers Assn J 18:323-4 N '25
Need for longer loans on real estate by national banks. A. F. Dawson. Am Bankers Assn J 18:229-30 O '25; Same. Comm & Fin Chr 121:107-9; Discussion. 115-16 sec 2 O 17 '25
Proportion of its loanable funds which a national bank should lend upon real estate security. T: M. Steele. Comm & Fin Chr 119:136-9 sec 2 O 18 '24; Same cond. Am Bankers Assn J 17:259-60 O '24; Excerpts. Bankers M 109:804-5 O 31 '24
Real estate finance and the nation's welfare. Comm & Fin Chr 119:2458-62 N 29 '24
Report of I.B.A. real estate securities committee. Comm & Fin Chr 119:1460-1 S 27 '24
Second mortgages financed through material dealers. T. F. Laist. Eng & Contr (Bldgs) 61:1198-1200 My 28 '24
Second mortgages for homes. A. E. Cornell. Eng & Contr (Bldgs) 61:1179-82 My 28 '24
Setting up a department to sell real estate mortgages. T. R. Durham. Am Bankers Assn J 18:339-40 N '25
Windstorm insurance as a necessary protection for mortgage loans. G: E. Crosby, jr. Econ W n s 30:23-4 Jl 4 '25

See also Chattel mortgages

MORTISES (printing)
Setting type in mortises. R. F. Salade. Inland Ptr 75:928-30 S '25

MORTISING machine
Automatic chain and hollow chisel mortiser manufactured by B. Smith & son. il Ry Mech Eng 99:661 O '25
Mortising machine for use in car construction. il Ry Mech Eng 98:766-7 D '24
Wappat gear works novel electric mortiser. il Eng & Contr (Bldgs) 64:716 S 23 '25

MORTUARY chapels
Chapel has concrete dome and stucco interior. il diags plan Concrete 25:224-6 D '24
Chapel in Mountain cemetery, Yarmouth, Nova Scotia; views and plan. Am Arch 124: 436f-g N 7 '23
Elm Grove chapel, Mystic, Conn. il plans Bldg Age 47:114 O '25
Ivan Mestrovic, sculptor-architect; Racic mortuary chapel near Ragusa. K. Parkes. il Arch Rec 57:173-85 F '25

MOSAIC
Mosaic art. il Am Arch 128:179-82 Ag 26 '25
Mosaic flooring of Santa Prassede, Rome. A. Mausolff. il Arch Forum 42:17-22 Ja '25
Mosaics in the Church of San Marco, Rome. A. Mausolff. il Arch Forum 40:17-22 Ja '24
Revival of mosaic. P. Ackerman. il Arch Rec 55:601-4 Je '24

MOSQUES
Constantinople the colorful. G. K. Geerlings. il Am Arch 128:1-8 Jl 1 '25

MOSQUITOES
Airplane war against boll weevil and malarial mosquito. W. M. Steele. il Manuf Rec 87: 81-3 F 19 '25
Attacking malaria with airplanes. Sci Am 131:404 D '24
Combating mosquitoes by means of fishes. Eng & Contr (W W) 61:602 Mr 12 '24
Low cost oiling for mosquito control. C. B. Ransone. Eng & Contr (W W) 63:96 Ja 14 '25; Abstract. Pub Works 56:81 Mr '25
Malaria and mosquito control in southern Illinois. A. F. Dappert. Eng & Contr (W W) 61:555 Mr 12 '24
Mosquito breeding in water barrels. Eng & Contr (W W) 63:543 Mr 11 '25
New discovery in mosquito suppression. Sci Am 130:336 My '24
Results of mosquito control at Brunswick, Ga. Eng & Contr (W W) 60:1247 D 12 '23
Resumé of the anti-malarial operations at Cristobal-Colon. J. L. Byrd. il Nation's Health 6:319-20+ My '24
Use of fish for mosquito control. 120p International health bd. of Rockefeller foundation, 61 Bway, New York '24
Work of the engineer in prevention of malaria and mosquito nuisances. J. A. Le-Prince. Munic & Co Eng 67:231-3 N '24

MOTHER lode coalition mines company
Facts for the stockholder. Eng & Min J 116: 1143 D 29 '23

MOTHER-of-pearl
Use of monochromatic X-rays in the production of Laue diagrams, and the structure of mother-of-pearl. J. H. Shaxby. Philos Mag 6th ser 49:1201-6, pl 13 Je '25

MOTHERS' pensions
Disinherited family. E. F. Rathbone. 324p Longmans '24
Mothers' pensions in Michigan. Monthly Labor R 21:157 Jl '25
Mothers' pensions in Ontario. Monthly Labor R 20:411-12 F '25

MOTHS
Checkmating the moth. A. Neuburger. il Sci Am 130:248 Ap '24
Chemical protection of fabrics against moths. J. Craft. Chem Age (Lond) 12:108 Ja 31 '25
Clothes moths and their control. A. D. Imms. Sci Am 130:399 Je '24
Effect of cold storage on clothes moths. E. A. Back and R. T. Cotton. Refrig W 59:26 Ap '24
Eulan—a permanent protection against moth damage to textiles. C. O. Clark and J. Craft. Soc Dyers & Col J 41:155-9; Discussion. 159-61 My '25
Experiences with micro-organisms and insects in textile work. A. K. Johnson. il Am Dyestuff Rep 14:11-13; Discussion. 15-17 Ja 12 '25
Moth damage and moth prevention. A. P. Sachs. Am Dyestuff Rep 14:155-8 Mr 9 '25
Moth-proofing process. Textile World 67:1395 F 21 '25
Moths and moth damage. A. P. Sachs. il Textile Col 46:221-6 Ap '24
Moths and mothproofing. C: E. Mullin. Am Dyestuff Rep 14:321-3; Discussion. 323-5 My 18 '25
Moths and moth-proofing. C: E. Mullin. il Textile Col 47:160-2+, 229-31 Mr-Ap '25

MOTION
Motion of a rigid solid according to the relativity principle. G. Lamaître. Philos Mag 6th ser 48:164-76 Jl '24

See also Force and energy; Kinematics; Machinery, Kinematics of; Mechanics; Precession; Wave motion, Theory of

MOTION study
Achievements of motion psychology. F. B. Gilbreth and L. M. Gilbreth. Taylor Soc Bul 9:259+ D '24
Analyzing the "how" of a job. K. H. Condit. il Am Mach 62:649-51 Ap 23 '25
Broader conception of time and motion study. W: Baum. Am Management R 14:337-9 N '25

MOTION study—*Continued*
Classifying the elements of work. F. B. Gilbreth and L. M. Gilbreth. Management & Adm 8:151-4, 295-7 Ag-S '24
Mechanical aids to motion study. K. H. Condit. il Am Mach 62:685-8 Ap 30 '25
Motions and the variable factors that affect them. K. H. Condit. il Am Mach 62:609-11 Ap 16 '25
New light on pick and shovel work. D. H. Gillette. il Eng & Contr (Ry) 63:581-6 Mr 18 '25

See also Time study

MOTO-METER company
My problem of moving delicate parts. A. B. Schupp. il Factory 34:265-8 F '25; Same. Brass W 21:427-30 D '25

MOTOR and accessory manufacturers association
Annual meeting, Montreal, Oct. 7-10. Automotive Ind 53:665-73 O 15 '25

MOTOR boat industry

Advertising

Selling by the printed word. R. Ruxton. Ptg Art 42:363-8 D '23

MOTOR boats
Commercial field and future of the hydroplane in the motorboat industry. W. H. Fauber. Soc Auto Eng J 17:224+ S '25
Engine bed-timbers adopted. diags Soc Auto Eng J 16:589 Je '25
Engines for motorboats. G: F. Crouch. Soc Auto Eng J 14:117-19 F '24
Fishery patrol boat Vaila. il diags Engineer 138:733-4 D 26 '24
Instructions for the operation, care, and repair of power boat machinery. 232p United States Bureau of engineering, Washington '25
Motor boats and engines show advance. E. T. Keyser. il Am Exporter 94:7-12+ Ap '24
Motor launch Invermira. il diags Engineering 118:800, 801 D 12 '24
150 m.p.h. in a motorboat! G. Wood. Soc Auto Eng J 15:487-8 D '24
Packard-engined "Baby bootlegger" again wins boat classic. K. W. Stillman. il Automotive Ind 53:364-6 S 3 '25
Small motor cruiser. il diag plan Engineer 136:568-9 N 23 '23
Standards, engine requirements and the proposed coast-guard fleet discussed by S.A.E. diags Soc Auto Eng J 14:222-5 F '24
28-ft. cabin cruiser Annette-Petter. il diags Engineering 120:118-19 Jl 24 '25

See also Electric boats; Motor ships

Cost of operation

Diesel tug cuts $22,000 off annual expenses. A. H. Jansson. il Marine R 54:437-9 N '24

Periodicals

Launching the motor-boat magazine campaign. il Ptg Art 43:241-9 My '24

MOTOR bus association, National. See National motor bus association

MOTOR bus association of Virginia
Annual meeting, 3d, Norfolk, August 17-18. Bus Transportation 4:457-9 S '25

MOTOR bus associations
Some fundamentals of a proposed national association. R. W. Sanborn. Bus Transportation 4:71 F '25
State and local bus organizations; a list of officers with notices of meetings is published each month in Bus transportation
State associations report progress during 1924. Bus Transportation 4:73-5 F '25
What the associations are doing. Published in monthly numbers of Bus transportation

MOTOR bus drivers
Drivers hold key to safe operation. F. Van Vranken. Bus Transportation 4:302 Je '25
Merit system builds driver efficiency. il Bus Transportation 3:215-16 My '24
Safety rules given in answers to drivers' quiz. Bus Transportation 4:541-2 N '25
Selecting and training bus employees. A. J. Rowland. Elec Ry J 66:287-8 Ag 22 '25
System of driver reliefs and efficiency record. Bus Transportation 4:476 O '25
Tests for motormen and bus drivers. L. Bacqueyrisse. il Elec Ry J 64:280-5 Ag 23 '24
Training drivers for city service. Bus Transportation 4:263-4 Je '25
Uniformed driver is a business builder. il Bus Transportation 4:538-40 N '25

See also Motor bus lines—Safety devices and measures

MOTOR bus engines
Accessibility with complete enclosure combined in new Wisconsin bus engine. W. L. Carver. diag Automotive Ind 51:1080-1 D 25 '24
Buda brings out larger engine. il Bus Transportation 4:517, 519 O '25
Charge-mixing head in six-cylinder engine. il diag Bus Transportation 4:92 F '25
Continental announces special engine for express bus service. il Automotive Ind 50: 1075-6 My 15 '24
Engine is offset in one of three new models of the Yellow coach co. il diags Automotive Ind 51:915-17 N 27 '24
New Buda six—balanced parts feature. diag Bus Transportation 4:29-30 Ja '25
New Buda six cylinder engine designed especially for bus service. D. Blanchard. il diags Automotive Ind 51:955-6 D 4 '24
100 hp. Knight six designed specially for large high speed buses. B. M. Ikert. il diags Automotive Ind 51:596-9 O 2 '24
Rigid, deep section aluminum crankcase is feature of new Waukesha bus engine. W. L. Carver. il diags Automotive Ind 51:854-5 N 13 '24
Wisconsin six designed to meet exacting demands of bus service. W. L. Carver. Automotive Ind 51:848-9 N 13 '24

Specifications

American stock engine specifications; tabulation. Automotive Ind 40:442-5 F 21 '24

Testing

Testing bus engines with dynamometer. P. V. C. See. il Elec Ry J 63:224 F 9 '24

MOTOR bus industry
What comprises the industry. Bus Transportation 3:25-6 Ja '24

See also Motor bus lines

Advertising

Merchandising the goods without scaring the customer; selling the motor bus. G. A. Nichols. Ptr Ink 125:53-4+ D 27 '23

MOTOR bus insurance. See Insurance, Motor bus

MOTOR bus lines
Atlantic City—the bus world shown in miniature. il chart map Bus Transportation 4:473-6 O '25
Automobile bus a new factor in highway transportation. G: A. Miller. il Dun's Int R 46:37-40 O '25
Bus operating practice. 268p Mack trucks, inc., International motor co., New York '25
Bus transport developing rapidly in many foreign countries. Automotive Ind 53:464-5 S 17 '25
Bus upheld for mass transportation. Bus Transportation 3:63-4 F '24
Chicago holds banner gathering of transport authorities. Bus Transportation 4:296-9 Je '25
Economic position of motor transport. il diags plan Sci Am 130:10-12+ Ja '24
Expansion of motorbus traffic. C. E. Williams. il Manuf Rec 87:91-3 F 26 '25
Field and future of the motorbus. J. A. Emery. Soc Auto Eng J 14:107-10 F '24; Same cond. Bus Transportation 3:64-6 F '24; Discussion. Soc Auto Eng J 15:163-7 Ag '24
Four leading Ohio newspapers speak on electric traction and motor bus. Pub Serv Management 36:117-18 Ap '24

MOTOR bus lines—*Continued*
Future of the motor bus. F. R. Fageol. Bus Transportation 4:94-5 F '25
Highway transportation problems discussed at A.E.R.A. convention. il Bus Transportation 4:547-52 N '25
How commercial travelers regard the bus. S. Katz. Bus Transportation 3:315 Jl '24
How the merchants of Ensley put business on its feet by providing bus transportation. il System 46:163-4 Ag '24
How the public has turned to motor busses for highway transport. J. W. Brooks. il Manuf Rec 87:90-2 Ja 1 '25
Motor transportation as a passenger carrying agency. A. W. S. Herrington. diags Soc Auto Eng J 17:157-60 Ag '25
New York to choose. il Bus Transportation 3: 488 O '24
Place of the motor bus in world transportation. M. E. Forbes. Automotive Ind 50:1172-3 My 29 '24
Public needs complete service. G. E. Tripp. Aera 13:1336-41 Mr '25; Same cond. Bus Transportation 4:144-5 Mr '25
Relation of highways and motor transport to other transportation agencies; Commerce chamber report. Bus Transportation 2:588 D '23
Report of the A.E.R.A. committee on unification and co-ordination of all forms of local transportation. Elec Ry J 64:594-6 O 11 '24; Same. Aera 13:357-62 O '24
Street railway securities; motor busses slowly affecting street railway operations. C. Donaldson. il Sci Am 133:68+ Jl '25
Tabular presentation of recent bus developments. Published in monthly numbers of Bus transportation
Testing out riding habits. Bus Transportation 4:315 Jl '25
Transportation sells real estate. il Bus Transportation 4:177-8 Ap '25
Whole world takes to motor bus. il map Bus Transportation 3:211-14 My '24

See also Railroads—Motor vehicle auxiliaries; Railroads—Motor vehicle competition; Street railroads—Motor vehicle competition; *also* National motor bus association

Accidents

Careful drivers keep fatal bus accidents far below normal. Bus Transportation 4:265-6 Je '25
Claims aspects of motor bus operation. Elec Ry J 64:684-5 O 18 '24
D. S. R. accidents for one month. Bus Transportation 4:381 Ag '25
Motor bus accidents. C. E. Redfern. Elec Ry J 66:688-9 O 17 '25
Team contest and individual bonus keep down accidents in Youngstown, Ohio. J. B. Stewart, jr. Bus Transportation 4:319-20 Jl '25

See also Motor bus drivers; Motor bus lines—Safety devices and measures

Accounting

Accounting system gives picture of operation; Camas stage company, Portland, Ore. W. L. Fowler. Bus Transportation 4:211-14 My '25
Accounting system should tell you how to keep your costs. T: G. Hughes. Bus Transportation 4:17-20 Ja '25
Basis for analyzing revenues and expenses. C. W. Stocks. Bus Transportation 4:267-77, 331-7, 384-92, 435-9 Je-S '25; Discussion. 4: 439-40 S '25
Bus operation and accounting. L. J. Wertzler. Elec Ry J 63:387-8 Mr 8 '24; Same abr. Bus Transportation 3:234-5 My '24
Driver-to-office forms serve as day-by-day barometer of bus line earnings. R. H. Swint. Bus Transportation 2:576-7 D '23
Let classification of expenses follow division of responsibilities. A. E. Hutt. Bus Transportation 3:358-60 Ag '24; Discussion. 3:470-1, 525 O-N '24
Motor buses and accounting. M. W. Glover. Elec Ry J 63:732-3 My 10 '24
New classification of accounts for bus subsidiary. F. A. Healy. Elec Ry J 64:357-8 S 6 '24
Report of the committee on bus accounting. Elec Ry J 66:698-9 O 17 '25; Bus Transportation 4:552-3 N '25
Rochester bus accounts. Elec Ry J 63:811 My 24 '24

Advertising

Advertising methods for increasing the riding habit. il Bus Transportation 4:129 Mr '25
Blotters issued to advertise timetables. Bus Transportation 3:558 D '24
How bus companies advertise to increase business. il Bus Transportation 3:105-8, 159-62 Mr-Ap '24
Letters to patrons build business. Bus Transportation 3:561 D '24
Pioneer line connects 25,000 persons with state's largest city; issues miniature newspaper. il Bus Transportation 4:221-2 My '25
Running signs used in fare-raise plea. il Bus Transportation 3:318-19 Jl '24
Selling the bus idea. Bus Transportation 4: 85 F '25

Baggage

Tag-waybill scheme carries baggage on connecting systems. Bus Transportation 2:574 D '23

Cost of operation

Analysis of costs for ten years of fleet operation. R. E. Plimpton. Bus Transportation 3:138-40; Discussion. 136-7 Mr '24
Comparison of costs of trackless trolley and gasoline bus at Toledo. W. E. Cann. Munic & Co Eng 66:259-60 Je '24
Cost and earnings of bus service by electric railways. E. J. Murphy. Aera 13:1463-8 Ap '25
Cost of bus operation by street railway companies. Eng & Contr (Ry) 63:569-70 Mr 18 '25
Eleven cents a mile saved by cutting maintenance corners. il Bus Transportation 4: 313-15 Jl '25
How the size of equipment affects net income. J. A. Emery. Bus Transportation 4:491-4 O '25
Municipal tramways and motor omnibuses; abstracts. A. R. Fearnley. Elec R (Lond) 97:452 S 18 '25; Electrician 95:325-6 S 18 '25; Elec Ry J 66:832-3 N 7 '25; Discussion. Elec R (Lond) 97:517-18 S 25 '25; Electrician 95:326 S 18 '25
Operating costs of the Chicago, South Bend & Northern Indiana railway's bus division for September, 1924. Bus Transportation 3: 591 D '24
Public pays, but less each year; operating expenses kept on the down grade by Strahan consolidated schools. il Bus Transportation 4:130-1 Mr '25
Public-utility experience with the motor-coach. V. E. Keenan. il charts Soc Auto Eng J 15:320-3 O '24; Abstract. Automotive Ind 51:553 S 25 '24; Discussion. Soc Auto Eng J 16:315-16 Mr '25
Southern company keeps operating cost low. Bus Transportation 4:362-3 Jl '25
Suburban service costs 21.7 cents per mile; operation of motor service by Chicago & West Towns railway. il diag Bus Transportation 4:219-21 My '25
What it costs to build up a suburb; Detroit realtor subsidizes transportation for new subdivision. Bus Transportation 3:568-9 D '24

Employees

Company dinners are paying investments. Bus Transportation 4:218 My '25
Discussion begun of problems of pay and conditions of service governing bus work. Elec Ry J 66:28 Jl 4 '25
Employees of the Chester Valley lines, West Chester, Pa., and the officials organize the Chester Valley lines employees' association. Bus Transportation 4:253 My '25

MOTOR bus lines—Employees—*Continued*
Employer and employee as comrades. H. C. Moser. il Bus Transportation 4:495-8 O '25
Encouraging service with a smile. il Bus Transportation 3:348-50 Ag '24
Many Atlanta coach operators recruited from railway forces. il Elec Ry J 66:245 Ag 15 '25
Recruiting men who man the buses. il Bus Transportation 3:498-500 N '24
Selecting and training men for city and intercity operation; collectors and drivers. A. Shapiro. Bus Transportation 4:183-6 Ap '25
What sells the service? A. Shapiro. Bus Transportation 4:9-13 Ja '25
See also Motor bus drivers

Equipment
Fuel, tire and towing work by one vehicle. il Bus Transportation 4:287 Je '25

Fare collection
Check on every passenger; Long Island operator develops successful system of fare collection. map Bus Transportation 3:155-7 Ap '24
Concentrating responsibility in fare collection. Bus Transportation 4:228 My '25
Convenient mounting for fare register. il Bus Transportation 4:187 Ap '25
Driver punches fare receipt only once. Bus Transportation 2:575 D '23
Fare collection methods. Bus Transportation 3:128-9 Mr '24

Fares
Five-cent fare fails in Everett. Bus Transportation 3:196 Ap '24
Petition for 10-cent fare in Washington, D.C. denied. Bus Transportation 3:439 S '24
Scrip bureau established in California. Bus Transportation 4:247-8 My '25
Washington rapid transit company renews 10-cent fare plea. Bus Transportation 3:591 D '24

Finance
Analysis of financial side of three city companies. Bus Transportation 4:308 Je '25
Bus increases gross income on co-ordinated system; Indiana, Columbus & Eastern traction company. Bus Transportation 3:431-2 S '24
Bus line in Baltimore shows surplus. Bus Transportation 2:597 D '23
Bus operating results in Providence, R.I. maps Elec Ry J 64:43-5 Jl 12 '24
California railroad commission issues bus report. Bus Transportation 2:597-8 D '23
City subsidizes bus line. il map plan Bus Transportation 3:75-7 F '24
Deficit on bus lines in Philadelphia. Bus Transportation 3:146 Mr '24
Detroit company maintains earning ability during expansion. Bus Transportation 3:195 Ap '24
Public service bus revenue $4,133,120 in 1924. Bus Transportation 4:208 Ap '25
Report shows Detroit growth. Bus Transportation 4:531 O '25
See also Fifth avenue coach company; Omnibus corporation

Franchises
New bus ordinance proposed for St Louis. Aera 13:820-4 D '24

Freight
Good profits, good friends—results of express business at Portland, Ore. Bus Transportation 2:566 D '23
Milk carrying a profitable side line. il Bus Transportation 3:62 F '24

Fuel supply
Road fuel-delivery saves $4.81 a day for gasoline. il Bus Transportation 4:128-9 Mr '25

Garages
Electric railway motor bus garages. diags plan Eng & Contr (G C) 63:833-4 Ap 17 '25
Hints on garage design. Bus Transportation 4:564-5 N '25
L-shaped structure makes possible continuous flow of work. il plans Bus Transportation 4:14-16 Ja '25

Insurance
See Insurance, Motor bus

Laws and regulations
American automobile association issues referendum on interstate regulation. Bus Transportation 4:246 My '25
Auto buses and street railways; legal status in Pennsylvania defined. J. F. Shrader. Elec Ry J 62:977-9 D 8 '23
Bus law passed in North Carolina. Bus Transportation 4:152 Mr '25
Bus owners study new Ontario highway act. Bus Transportation 3:193-4 Ap '24
Bus regulation arouses lively interest at Midwest motor transport conference, Chicago, May 27-28. Elec Ry J 65:897-9 Je 6 '25
Buses regulated in Indiana. Elec Ry J 65: 479-80 Mr 21 '25
Governmental action advocated by U.S. chamber of commerce. Bus Transportation 4:284 Je '25
Governors urge bus legislation. Bus Transportation 4:103 F '25
Grand jury urges new bus laws in New York. Bus Transportation 4:50 Ja '25
Holds state can bar interstate lines. Bus Transportation 3:46 Ja '24
Indiana enacts motor bus law; text. Aera 13: 1512-13 Ap '25
Interstate bus line decisions less sweeping than at first supposed. H. L. Cobb. Automotive Ind 52:508-9 Mr 12 '25; Elec Ry J 65:384 Mr 7 '25
Interstate buses create new problems in regulation. L. S. Storrs. Aera 14:736-40 N '25; Same cond. Elec Ry J 66:750-1 O 24 '25
Kansas controls the bus. Elec Ry J 65:1025 Je 27 '25
Licenses for interstate buses. Bus Transportation 3:80-1 F '24
Maine commission refuses certificate for 955-mile bus system. Aera 14:498-509 O '25
Much new legislation. K. L. McKee. Aera 13: 1824-38 Je '25
National system of motor bus regulation proposed in England. Automotive Ind 53: 16 Jl 2 '25
Ohio association establishes legal department. Bus Transportation 3:232 My '24
Operators want state regulation. Bus Transportation 3:381-2 Ag '24
Proposes interstate buses be regulated by the states. N. B. Williams. Bus Transportation 4:559-60 N '25
Public regulation of motor bus service. D. F. Wilcox. Ann Am Acad 116:107-12 N '24
Red Ball lines granted permit. il Bus Transportation 2:599 D '23
Regulation of interstate motor carriers indorsed by independent operators at conference in Washington. Bus Transportation 4: 282-4 Je '25
Regulation of motor vehicles as common carriers. H: R. Trumbower. Pub Roads 5:16-19 Ag '24; Same. Munic & Co Eng 67:150-5 S '24; Same. Eng & Contr (R & S) 64:518-24 S 2 '25; Abstract. Automotive Ind 51: 482-3 S 11 '24
Regulatory law passed in Kentucky. Bus Transportation 3:194 Ap '24
Six states make bus a common carrier; trend of 1923 regulation reviewed. H. Meixell. Bus Transportation 3:4-6 Ja '24
State commissioners aim to control all interstate carriers. Bus Transportation 4: 577-8 N '25
State regulation issue before U.S. Supreme court. Bus Transportation 3:339-40 Jl '24
States cannot prohibit interstate competition, U.S. Supreme court rules. Bus Transportation 4:179-81 Ap '25
States powerless to regulate interstate motor traffic. J: W. Colton. il Aera 13:1445-53 Ap '25

MOTOR bus lines—Laws and regulations —*Continued*
Trend of regulatory practice as shown by court and commission decisions during 1924. H. Johnson. Bus Transportation 4:67-8 F '25
Two governors ask for bus laws. Bus Transportation 3:96 F '24

See also Jitney buses—Regulation; Motor vehicles—Law

Management

Adequate record system characterizes 21-bus installation. Bus Transportation 3:51-4 F '24
Bus operation in Connecticut. W. J. Flickinger. Aera 13:962-9 Ja '25; Same abr. Elec Ry J 64:1001-3 D 13 '24
Buses assume brunt of transportation burden in Portsmouth. il Bus Transportation 3:361-2 Ag '24
Code of principles adopted by the Minnesota motor bus association. il Bus Transportation 3:482-4 O '24
Combining small-scale and large scale operation; eastern Massachusetts railway buses. map Bus Transportation 3:203-5 My '24
Concentrating responsibility in fare collection. Bus Transportation 4:228 My '25
Development of bus operation by electric railways; report of committee of Transportation and traffic association. Aera 14: 454-60 O '25
East Texas line pays cash, even when loans are needed. il map Bus Transportation 3: 397-8 S '24
Four years of reliable service brings profits in Illinois. il map Bus Transportation 4:535-7 N '25
Free transfers issued in Oneonta, N. Y. as bus gradually replaces trolley. il Bus Transportation 3:405-6 S '24
Handy service truck costs $300; efficient servicing of buses on long intercity runs. il Bus Transportation 4:160 Ap '25
How de luxe jobs build up income. il Bus Transportation 3:557 D '24
How the weather prophet can help. il map Bus Transportation 4:433-4 S '25
In a thinly populated district how can traffic be increased? how route between Joliet and Aurora, Ill. does it. il Bus Transportation 4:159-60 Ap '25
Little things count in successful maintenance. W. G. Lamb. Bus Transportation 4:145-6 Mr '25
Methods of regulating passenger behavior. Bus Transportation 3:317-18 Jl '24
Motorbus transportation. A. E. Hutt. Soc Auto Eng J 14:591-3 Je '24; Discussion. 14: 573-4; 15:251-8 Je, S '24
Motor bus transportation discussed. Bus Transportation 3:281-2 Je '24
Pennsylvania-Ohio coach lines believes in contracting for major repairs. il Bus Transportation 4:113-15 Mr '25
Quantity production methods; can they be used to advantage in coal mining camps? il map Bus Transportation 4:5-8 Ja '25
Railways becoming more expert in bus operation. E. J. Murphy. Aera 14:157-62 S '25
Reservation lists help sell service. Bus Transportation 3:254 Je '24
Some observations of a fleet superintendent. J. F. Winchester. il Bus Transportation 3: 282-4 Je '24
Staff-line organization controls state-wide operation in Connecticut. il Bus Transportation 4:487-90 O '25
System for controlling motorbus maintenance. R. E. Fielder. Soc Auto Eng J 16:345-54 Mr '25; Same. Aera 13:1693-1705 My '25
This company triples investment in three years; Gloucester auto bus co. il map Bus Transportation 3:247-50 Je '24
Touring cars give way to larger equipment. il Bus Transportation 4:382-3 Ag '25
Traffic analysis helpful for schedule-making purposes. Bus Transportation 3:449-51 O '24
Use of buses in city service. W: W. Holden. Elec Ry J 65:818 My 23 '25
What sells the service? A. Shapiro. Bus Transportation 4:9-13 Ja '25
Where, when and how to start a bus line. R. A. Hauer. Bus Transportation 3:355-7 Ag '24
Yardstick for measuring intercity bus lines. C. W. Stocks. Bus Transportation 3:407-10 S '24

Maps

Bus schedules, distances and fares shown on wall placard. map Bus Transportation 3:70 F '24

Parcel delivery

By-product that developed itself on the Colorado motor way. Bus Transportation 4:233 My '25
Carrying newspapers—a by-product which pays double dividends. Bus Transportation 4:222 My '25
Parcel delivery system on the East Surrey traction company, ltd. Bus Transportation 3:223 My '24

Public relations

Pied Piper of the bus world; N. E. Reynolds' route between Chatham and Danville, Pa. il Bus Transportation 4:176 Ap '25
Public be pleased an eternal policy. C. R. Wood. Bus Transportation 4:484-6 O '25

Records

Adequate record system characterizes 21-bus installation. Bus Transportation 3:51-4 F '24
Driver-to-office forms serve as day-by-day barometer of bus line earnings. R. H. Swint. Bus Transportation 2:576-7 D '23
Drivers' daily report. il Bus Transportation 5:239 My '25
Record forms that save time for 100-bus system. il Bus Transportation 2:567-70 D '23
Single card carries cost records for maintenance or manufacture. il Bus Transportation 4:186-7 Ap '25

Safety devices and measures

Drivers hold key to safe operation. F. Van Vranken. Bus Transportation 4:302 Je '25
Overcoming hazards of motor bus operation. R. N. Graham. Aera 13:403-8 O '24; Excerpts. Elec Ry J 64:562 O 4 '24
Safety rules given in answers to drivers' quiz. Bus Transportation 4:541-2 N '25
Three factors which affect safety. H. K. Bennett. Bus Transportation 4:277-8 Je '25

Shops

Keeping up the electrical system. il diags Bus Transportation 3:251-3 Je '24
Where inspection and maintenance are standardized; central overhaul depot of the Connecticut co. C: R. Harte. il plan Bus Transportation 3:547-52 D '24

Snow removal

Bucking the drifts in Kansas. il Bus Transportation 3:118-19 Mr '24
Fighting snow in coal land. il Bus Transportation 3:419 S '24
Fighting snow in June at the top of the world. il Bus Transportation 4:117-19 Mr '25
How a city bus company handles snow storms. H. C. Moser. il Bus Transportation 3:412-14 S '24
Keep 'em rollin' is battle cry during winter months. il diags Bus Transportation 3:393-5 S '24
Snow removal gains in New York state. Bus Transportation 3:23-4 Ja '24
When winter comes in Toronto. il plans Bus Transportation 4:421-3 S '25

See also Motor buses—Snow scrapers

Statistics

Bus operating statistics as of Jan. 1, 1925. Bus Transportation 4:76 F '25
Bus operation reported for foreign countries. Bus Transportation 4:471 S '25

MOTOR bus lines—Statistics—*Continued*
Condensed operating statistics and revenue accounts of twelve English municipal tramways operating buses, year ended March 31, 1924. Bus Transportation 4:531 O '25
Large bus operations analyzed. Elec Ry J 65:736-7 My 9 '25

Street railroad auxiliaries

Allies in a common purpose. W. J. Flickinger. Aera 12:1204-7 F '24
Approach of spring brings added bus plans by railways. Bus Transportation 4:201-2 Ap '25
Attitude of the automotive industry on the matter of coordinating electric railway and motor vehicle service. A. J. Brosseau. Aera 13:693-701 N '24; Same cond. Bus Transportation 3:507-8 N '24; Same cond. Elec Ry J 64:622-5 O 11 '24
Bankers and city planners would co-ordinate transportation. Bus Transportation 3:184-5 Ap '24
Be the first to render service. S. B. Way. Aera 13:1374-9 Mr '25; Same. Elec Ry J 65:291-3 F 21 '25; Same cond. Bus Transportation 4:142-4 Mr '25
Better transportation through established agencies. L. S. Storrs. Elec Ry J 66:555-6 O 3 '25
Both buses and cars are needed. G. E. Tripp. Elec Ry J 65:296-7 F 21 '25
Boulevard bus service operated in New Orleans. il Elec Ry J 66:542 O 3 '25
Bus a traction adjunct. T: N. McCarter. Elec Ry J 63:81 Ja 12 '24
Bus and its place. B. Cameron. Elec Ry J 63:985 Je 21 '24
Bus and the railway and the outlook. W. B. Tuttle. Elec Ry J 63:704-5 My 3 '24
Bus and trolley work together in unified interurban system in Pennsylvania and Delaware. il map Bus Transportation 4:79-83 F '25
Bus development by the Boston Elevated. Elec Ry J 63:419-20 Mr 15 '24
Bus is a railway adjunct. E. P. Smith. Aera 13:1479-84 Ap '25
Bus line connects rail termini at New Bedford. il Elec Ry J 63:844 My 31 '24
Bus made an ally in Decatur. Elec Ry J 64: 399 S 13 '24
Bus makers' attitude. T. R. Dahl. Aera 13: 1368-73 Mr '25; Same cond. Elec Ry J 65: 294-5 F 21 '25; Same cond. Bus Transportation 4:141-2 Mr '25; Excerpts. Automotive Ind 52:465 Mr 5 '25
Bus operating results in Providence, R.I. maps Elec Ry J 64:43-5 Jl 12 '24
Bus operation. C: E. Thompson. il Elec Ry J 64:487-90 S 27 '24
Bus operation by electric railways doubled during 1924. Elec Ry J 65:5-8 Ja 3 '25
Bus operation by key system reviewed—more routes coming. Elec Ry J 66:219 Ag 8 '25
Bus operation by street railways doubled since 1924. K. W. Stillman. il Automotive Ind 53:610-14 O 8 '25
Bus operation extends trolley line. T. C. Roderick. Bus Transportation 3:376 Ag '24
Bus operation in Connecticut. W. J. Flickinger. Aera 13:962-9 Ja '25; Same abr. Elec Ry J 64:1001-3 D 13 '24
Bus operation is benefiting Louisville. F. E. Belleville. Elec Ry J 63:421-2 Mr 15 '24; Same. Bus Transportation 3:182 Ap '24
Bus operations of the Public service railway. A. T. Warner. Elec Ry J 66:647-9 O 10 '25
Bus plans of Detroit United railway progressing. il Bus Transportation 3:585-6 D '24
Bus problems the railway man runs up against. B. Hilburn. Aera 13:957-61 Ja '25; Same cond. Elec Ry J 64:998-9 D 13 '24
Buses amplify transportation in Decatur, Ill. il map Elec Ry J 64:909-11 N 29 '24
Buses carry one-quarter total number of passengers in Youngstown. il map Elec Ry J 63:1007-10 Je 28 '24
Buses for Detroit. Elec Ry J 64:931 N 29 '24
Buses for Kansas City. Elec Ry J 65:593 Ap 11 '25
Buses link industrial with residential section. il map Elec Ry J 65:65-6 Ja 10 '25
Buses supplement cars in co-ordinated transportation system, Saginaw, Mich. il map Bus Transportation 3:217-20 My '24
Buses to compete with private automobiles in Kansas City. il diags map plans Elec Ry J 66:43-8 Jl 11 '25
Can motor buses relieve congestion? P. B. Harris. Elec Ry J 65:738 My 9 '25
City boards report on bus-trolley study. Bus Transportation 3:191-2 Ap '24
Comprehensive bus service in Kansas City. E. B. Sanders. il map Aera 14:348-63 O '25
Coordinated transportation. H. C. Clark. Aera 12:921-8 Ja '24; Abstract. Bus Transportation 3:40 Ja '24
Co-ordinating interurban service; Pennsylvania-Ohio electric company. il map Elec Ry J 64:379-82 S 13 '24
Co-ordination of bus and trolley. J. A. Emery. diag Elec Ry J 63:211-13 F 9 '24
Co-ordination of other forms of transportation with the electric railway. P. Shoup. Elec Ry J 64:625-8 O 11 '24
Cost and earnings of bus service by electric railways. E. J. Murphy. Aera 13:1463-8 Ap '25
Detroit coach riders subsidize operation by the city. G: D. Wilcox and F. Peppler. il map Aera 13:1522-32 Ap '25
D.U.R. to operate co-ordinate rail-bus system. Elec Ry J 64:879-80 N 22 '24
Development of bus operation by electric railways; report of committee of Transportation and traffic association. Aera 14: 454-60 O '25; Elec Ry J 66:637-40 O 10 '25
Dont's in bus operation. G: H. Scragg. Elec Ry J 66:788-90 O 31 '25
Economics of motor bus operation. E: Dana. Aera 13:970-3 Ja '25; Same cond. Elec Ry J 64:1003-4 D 13 '24
Electric railways extend bus systems. Bus Transportation 2:593-5; 3:189-90 D '23, Ap '24
Electric railways favor 29-passenger buses. Bus Transportation 4:311 Je '25
Electric railways keep pace in rapidly growing Texas cities. C: Gordon. il maps Elec Ry J 65:1009-14 Je 27 '25
Electric railways now operate 1914 buses over 2,405 miles of route. Bus Transportation 3: 447-9 O '24
Electric railways operating nearly 2,000 buses. Aera 13:234-49 S '24
Experiments with four-track bus and car service in Detroit. il Elec Ry J 65:855 My 30 '25
Extent and kind of bus operation by electric railways. Elec Ry J 63:5-13 Ja 5 '24
Fitting the bus into the transportation system. il maps Elec Ry J 66:429-31 S 19 '25
Four-track operation in Providence; co-ordinated service, with buses carrying the local passengers and cars running express. il map Elec Ry J 63:411-13 Mr 15 '24
Full transportation service by the local electric railway. L. S. Storrs. Aera 14:170-5 S '25
Functions of the motor bus; abstracts. P. Shoup. il Elec Ry J 66:494-6 S 26 '25; Elec J 22:478-9 O '25
Future of the bus and the electric railway; abstracts. F. G. Buffe. Elec Ry J 65:892-4 Je 6 '25; Bus Transportation 4:356 Jl '25
Highway activities of the electric railways. il Bus Transportation 4:147-8 Mr '25
Highway transportation problems discussed at A.E.R.A. convention. il Bus Transportation 4:547-52 N '25
An hour saved for twenty cents; Hartford and Springfield street railway supplements service with bus lines. il Bus Transportation 4: 121-3 Mr '25
How Saginaw has co-ordinated railway and bus. il map Elec Ry J 63:531-4 Ap 5 '24
How the motor coach can be utilized in the transportation system. G. T. Seely. Elec Ry J 63:545-6 Ap 5 '24

MOTOR bus lines—Street railroad auxiliaries —*Continued*
How various tramways in British Isles are treating the bus in England and Scotland. il maps Elec Ry J 64:419-24 S 20 '24
Importance of motor units officially recognized by American electric railway association. H. L. Cobb. Automotive Ind 52:464-5 Mr 5 '25
Interstate buses create new problems in regulation. L. S. Storrs. Aera 14:736-40 N '25; Same cond. Elec Ry J 66:750-1 O 24 '25
Interurban passengers transfer to buses at outlying terminals in Detroit. il plans Elec Ry J 65:685-8 My 2 '25
Linking interurban and stage. W. H. Somers. maps Aera 12:1356-61 Mr '24
Lord Ashfield on the future of tram and bus. il maps Elec Ry J 64:427-33 S 20 '24
Michigan railroad joins with bus and truck to increase freight and passenger facilities. Elec Ry J 63:712 My 3 '24
Modernize and merchandize; an interview with Britton I. Budd. H. L. Brown. Elec Ry J 62:1037-46 D 22 '23
Motor bus as an auxiliary in Baltimore. L. H. Palmer. Elec Ry J 64:18-19 Jl 5 '24
Motor bus—keynote of expansion for street railways; abstracts. W: P. Kennedy. Bus Transportation 3:90 F '24; Elec Ry J 63:145 Ja 26 '24
Motor coach's conquest of traction companies is complete. D. Beecroft. il Automotive Ind 53:694-7 O 22 '25
Nearly 4500 buses now operated by 249 electric railways over 11,668 miles of route. Aera 14:510-37 O '25; Excerpt. Eng & Contr (G C) 64:913 O 21 '25
New ordinance controls in Norfolk. Bus Transportation 4:424-5 S '25
New riding habits can be developed. G. T. Seely. Bus Transportation 3:232-3 My '24
On rails and rubber now and later. M. C. Krarup. il Forbes 15:83-5 O 15 '24
Orders for automotive equipment on the increase. Elec Ry J 63:40-1 Ja 5 '24
Organization and operation of a unified system. C. W. Stocks. il Elec Ry J 66:520-4 S 26 '25
Philadelphia co-ordinates bus and rail. il map Elec Ry J 66:197-200 Ag 8 '25
Place of the bus. A. P. Sloan, jr. Elec Ry J 66:105 Jl 18 '25
Public-utility experience with the motor-coach. V. E. Keenan. il charts Soc Auto Eng J 15:320-3 O '24; Abstract. Bus Transportation 3:465-7 O '24; Discussion. Soc Auto Eng J 16:315-16 Mr '25
Railway operates passenger automobiles for intercity service. il map Elec Ry J 63:581-3 Ap 12 '24
Railways becoming more expert in bus operation. E. J. Murphy. Aera 14:157-62 S '25
Railways should supply all mass transportation service. T. R. Dahl. Aera 13:211-17 S '24; Excerpts. Bus Transportation 3:430 S '24
Regulators must avoid competition. J. N. Shannahan. Elec Ry J 64:852-3 N 15 '24; Excerpts. Bus Transportation 3:580-1 D '24
Revenue increased on unified transportation system; Chester Valley lines. il map Elec Ry J 66:273-5 Ag 22 '25
Room for all of us; abstracts. C: W. Chase. Aera 13:1862-6 Je '25; Bus Transportation 4:299-300 Je '25
Seven kinds of bus operation. A. E. Potter. Elec Ry J 64:810-11 N 8 '24
Some comments on the electric railway industry. L. S. Storrs. Elec Ry J 66:7-9 Jl 4 '25
Some facts about bus operation by electric railways. K. L. McKee. Aera 14:718-26 N '25; Excerpts. Elec Ry J 66:799-800 O 31 '25
Speeding up service through downtown Detroit. il Bus Transportation 4:215-16 My '25
Suburban service costs 21.7 cents per mile; operation of motor service by Chicago & West Towns railway. il diag Bus Transportation 4:219-21 My '25
Traffic increasing on the Beaver Valley bus lines. map Elec Ry J 65:851-2 My 30 '25
Transportation efficiency in future depends on motor vehicle; abstracts. G: M. Graham. Automotive Ind 50:1068-71 My 15 '24; Ry Age 76:1207 My 17 '24; Aera 12:1867-73 Je '24
Transportation fundamentals. L. S. Storrs. Aera 13:951-6 Ja '25; Excerpts. Elec Ry J 64:1004-5 D 13 '24
Transportation service co-ordinated in southeastern Pennsylvania. il map Elec Ry J 64:881-4 N 22 '24
Trend toward one-man cars; bus operation in California by electric railways. Aera 12:1000-2 Ja '24
$21,000 instead of $125,000; laying sheet asphalt over tracks and operating buses instead of trolleys. C. D. Smith. il Aera 13:848-51 D '24
Union street railway starts interstate bus line between New Bedford, Mass., and Providence, R.I., passing through Fall River. il map Elec Ry J 66:117-19 Jl 25 '25
Use of motor bus by railways more than doubles in year. J. A. Millon. Aera 13:1170-86 F '25; Same, without tables. Eng & Contr (Ry) 63:589-90 Mr 18 '25
Using the motor bus effectively. J: A. Ritchie. Elec Ry J 66:165-7 Ag 1 '25
Who shall sell bus transportation? A. J. Brosseau. il Nation's Business 13:21-3 F '25

See also New England motor vehicle conference

Taxation

Bus taxes and the railroads. F. M. Kenney. Bus Transportation 4:446 S '25
Excessive tax on bus retards communities served. L. C. Major. Bus Transportation 4:461 S '25
State bus tax laws summarized. Bus Transportation 3:581-2 D '24
Taxing the automotive industry. J: A. Ritchie. Am Ind 25:5-8+ Ap; 13-17 My '25; Same cond. Bus Transportation 4:163-5 Ap '25

Terminals

Building and maintaining a fleet of twenty-five intercity stages. il Bus Transportation 3:151-4 Ap '24
Bus terminal brings $700,000 annually to Lexington, Ky. il map Bus Transportation 3:410-11 S '24
Bus terminal handles 350 schedule movements daily. il diag plan Bus Transportation 3:443-6 O '24
Central location feature of New Rochester depot. il Bus Transportation 4:181-2 Ap '25
Chain of stage depots planned by Pickwick system. Bus Transportation 3:220 My '24
Chamber of commerce of Rome, N.Y., maintains free terminal for bus lines. il Bus Transportation 3:264-5 Je '24
Combination motor and electric terminal opened in Tacoma. il Bus Transportation 3:259-60 Je '24
Frontages on intersecting streets yield unique bus-rider facilities. il map plan Bus Transportation 2:555-9 D '23
Joint bus and trolley terminal at Auburn, New York, for central New York bus lines. il Bus Transportation 3:305-8 Jl '24
Joint passenger terminals urged for highway and rail systems. R. T. Whitting. Bus Transportation 4:477-9 O '25
Joint terminals make close co-operation possible. il Bus Transportation 3:260 Je '24
Knoxville terminal takes buses first. il Bus Transportation 4:382 Ag '25
Operating convenience provided in a combined terminal, office and garage building. il diags plan Bus Transportation 3:101-4 Mr '24
Passenger loading room forms part of new California stage depot. il plans Bus Transportation 3:1-3 Ja '24
Pickwick $300,000 terminal opened in Los Angeles. il map Bus Transportation 3:515-16 N '24
Portland stage depot is prospering. Bus Transportation 3:250 Je '24
Terminal at Kelso, Washington, pays its way. plan Bus Transportation 4:316 Jl '25

MOTOR bus lines—Terminals—*Continued*
Terminal for 450 buses an hour in London. Elec Ry J 64:459 S 20 '24
Terminal handles 15,000 persons, 1,250 buses daily; Union bus depot in St Paul. il diag Bus Transportation 4:1-4 Ja '25
Terminal opened in Indianapolis. il plan Bus Transportation 4:279-81 Je '25
Two stage lines share city terminal and shops in Kansas City, Mo. il Bus Transportation 3:199-200 My '24
Union station at Danville proves valuable asset. il Bus Transportation 4:115-16 Mr '25

Tickets

Ticket selling machine for bus terminals. il Bus Transportation 3:402 S '24

Time tables

Advertising methods for increasing the riding habit. il Bus Transportation 4:129 Mr '25
Blotters issued to advertise timetables. Bus Transportation 3:558 D '24
Co-operation produces notable time-table. Bus Transportation 4:131-2 Mr '25
Time-table combined with billboard. il Bus Transportation 3:35 Ja '24
Timetables answer the query of when and where for bus patrons. map Bus Transportation 3:563-7 D '24

Winter operation

Industry growth reflected in plans for winter work. il plan Bus Transportation 4:425-6 S '25
Making ready for winter service; practices followed by many companies are brought out in a nation-wide survey. R. E. Plimpton. il Bus Transportation 3:415-18 S '24
Winter preparedness in the central states. Bus Transportation 4:432 S '25

See also Motor bus lines—Snow removal

Akron, Ohio

Akron experiment was not fair test of bus transportation efficiency. Automotive Ind 50: 665 Mr 20 '24
Akron's rubber urge passes. il Elec Ry J 63: 330-4 Mr 1 '24
Buses handle Akron's local traffic for twenty-seven days. il maps Bus Transportation 3: 120-5 Mr '24

Arizona

Long-distance tours prove profitable. il Bus Transportation 2:560 D '23

Astoria, Oregon

Buses replace trolley in Astoria. il Bus Transportation 4:23 Ja '25

British Columbia

De luxe service successful on extra fare. il Bus Transportation 4:188 Ap '25

Buenos Aires, Argentina

Bus traffic increases in Buenos Aires. Automotive Ind 49:1190 D 13 '23

Buffalo, New York

Four companies want Buffalo bus franchise. Bus Transportation 3:91 F '24
102 buses for Buffalo. Elec Ry J 66:180 Ag 1 '25

California

California buses carried over 29,000,000 in 1923. Bus Transportation 3:491-2 O '24
Consolidation eliminates wasteful competition. il map Bus Transportation 4:261-2 Je '25
Further 1924 figures from California. Bus Transportation 4:586 N '25
Motor buses in California carried over 30,000,000 during 1924. Automotive Ind 53: 785 N 5 '25
Notes on automobile stages in California. F. D. Howell. il diag Soc Auto Eng J 15:292-9 O '24; Same cond. Bus Transportation 3: 462-4 O '24; Abstract. Automotive Ind 51: 559-61 S 25 '24; Discussion. Soc Auto Eng J 16:321-6 Mr '25
Referendum vote proposed to make bus public utility in California; new routes. Bus Transportation 3:242-3 My '24
Scrip bureau established in California. Bus Transportation 4:247-8 My '25
Stage consolidation offers attractive scenic route in tourists' paradise. il map Bus Transportation 3:268-9 Je '24

Canada

Bus legislation urged in Canada. Elec Ry J 66:22 Jl 4 '25

Chicago, Illinois

Motor bus traffic in Chicago. J. A. Emery. W Soc E J 29:112-15 Mr '24
West side routes opened in Chicago. il map Bus Transportation 3:187-8 Ap '24

Cleveland, Ohio

Bus proposal revived for Cleveland railway. Elec Ry J 64:896 N 22 '24

Colorado

Over the top of the world by bus; the Rocky Mountain transportation company. il map Bus Transportation 3:363-7 Ag '24
Pioneer line connects 25,000 persons with state's largest city; issues miniature newspaper. il Bus Transportation 4:221-2 My '25

Connecticut

Fitting the bus into the transportation system. il maps Elec Ry J 66:429-31 S 19 '25
Interstate bus line does well. Bus Transportation 3:557-8 D '24
School business, an owner finds, is a worth while by-product. il Bus Transportation 2: 571-4 D '23
Selling byproducts in two states; Acme lines, working in Massachusetts and Connecticut, handle school children on common carrier route. il map Bus Transportation 3:255-7 Je '24
Staff-line organization controls statewide operation in Connecticut. il Bus Transportation 4:487-90 O '25

Danville, Illinois

Union station at Danville proves valuable asset. il Bus Transportation 4:115-16 Mr '25

Delaware

Bus and trolley work together in unified interurban system in Pennsylvania and Delaware. il map Bus Transportation 4:79-83 F '25

Detroit, Michigan

Bus fare cut suggested at Detroit. Elec Ry J 65:233 F 7 '25
Bus system expands in Detroit. map Bus Transportation 3:143 Mr '24
Detroit answers motorbus proposal. Elec Ry J 63:501-2 Mr 29 '24
Detroit commission refuses to approve contract for buses. Elec Ry J 65:74 Ja 10 '25
Keeping pace with the demand for buses in the motor city. il map Bus Transportation 4:557-8 N '25
2,000,000 bus-miles in Detroit. Elec Ry J 65:313 F 21 '25
What it costs to build up a suburb; Detroit realtor subsidizes transportation for new subdivision. Bus Transportation 3:568-9 D '24

England

From two to ninety-five buses. il map Bus Transportation 3:113-15 Mr '24

Europe

Observations on foreign practice. J. W. Welsh, H. A. Johnson and H. L. Brown. il maps Elec Ry J 64:417-59 S 20 '24; Discussion. W. Jackson. 64:1080-2 D 27 '24

Gloucester, Massachusetts

This company triples investment in three years; Gloucester auto bus co. il maps Bus Transportation 3:247-50 Je '24

MOTOR bus lines—*Continued*

Illinois

Four years of reliable service brings profits in Illinois. il map Bus Transportation 4:535-7 N '25

How two railroads are supplied with patrons. il Bus Transportation 3:519-20 N '24

Illinois has 2,400 buses. map Bus Transportation 4:305 Je '25

In a thinly populated district how can traffic be increased? how route between Joliet and Aurora, Ill. does it. il Bus Transportation 4:159-60 Ap '25

Modern buses create traffic; co-ordination of service in Decatur. il Bus Transportation 3:513-14 N '24

Indiana

Buses regulated in Indiana. Elec Ry J 65: 479-80 Mr 21 '25

Indiana enacts motor bus law; text. Aera 13: 1512-13 Ap '25

Motor bus doubles effectiveness of consolidated country schools. il Bus Transportation 3:74-5 F '24

2,108 buses in Indiana. map Bus Transportation 4:203 Ap '25

Indianapolis, Indiana

More bus plans for Indianapolis. Bus Transportation 3:535 N '24

Terminal opened in Indianapolis. il plan Bus Transportation 4:279-81 Je '25

Kansas

Bus will replace Emporia railway. Elec Ry J 63:349 Mr 1 '24

Kansas City, Missouri

Bus grant accepted. Elec Ry J 65:667-8 Ap 25 '25

Buses to compete with private automobiles in Kansas City. il diags map plans Elec Ry J 66:43-8 Jl 11 '25

Comprehensive bus service in Kansas City. E. B. Sanders. il map Aera 14:348-63 O '25

Two stage lines share city terminal and shops in Kansas City, Mo. il Bus Transportation 3:199-200 My '24

Kentucky

Regulatory law passed in Kentucky. Bus Transportation 3:194 Ap '24

London, England

Buses double mileage of London tube trains; London General omnibus annual report. Bus Transportation 3:290-1 Je '24

Parliament backs limitation of London buses. Bus Transportation 4:254 My '25

Long Island, New York

Bus company develops from community club. il Bus Transportation 3:303-4 Jl '24

Los Angeles, California

Functions of the motor bus; abstracts. P. Shoup. il Elec Ry J 66:494-6 S 26 '25; Elec J 22:478-9 O '25

Maine

Maine commission refuses certificate for 955-mile bus system. Aera 14:498-509 O '25

Maryland

Interstate bus line decisions less sweeping than at first supposed. H. L. Cobb. Automotive Ind 52:508-9 Mr 12 '25; Elec Ry J 65:384 Mr 7 '25

Massachusetts

Boston-Lowell buses run express. il map Elec Ry J 64:1071-2 D 27 '24

Buses run along Paul Revere's route. il map Elec Ry J 64:955-7 D 6 '24

Combining small-scale and large-scale operation; Eastern Massachusetts railway buses. map Bus Transportation 3:203-5 My '24

Electric and steam railroads in Masschusetts agitated over inroads of unregulated bus lines. Elec Ry J 64:742 O 25 '24

Interurban bus runs planned. Elec Ry J 64: 461 S 20 '24

Selling byproducts in two states; Acme lines, working in Massachusetts and Connecticut, handle school children on common carrier route. il map Bus Transportation 3: 255-7 Je '24

Union street railway starts interstate bus line between New Bedford, Mass., and Providence, R.I., passing through Fall River. il map Elec Ry J 66:117-19 Jl 25 '25

Will await decision on interstate bus companies. Elec Ry J 64:818 N 8 '24

Michigan

Buses and cabs are operated by one organization. il Bus Transportation 3:163-4 Ap '24

What bus operation means in the state of Michigan. G: P. McCallum. il map Bus Transportation 4:543-5 N '25

Middle western states

Operation on the highways and byways. il Bus Transportation 4:479-81 O '25

Minneapolis

Bus terminal handles 350 schedule movements daily. il diag plan Bus Transportation 3: 443-6 O '24

Minnesota

Keep 'em rollin' is battle cry during winter months. il diags Bus Transportation 3:393-5 S '24

Netherlands

How service is developing in Holland. T. M. Van der Stempel. il Bus Transportation 4:161-2 Ap '25

Motor bus operation in Holland. P. M. Nieuwenhuis. Bus Transportation 3:469-70 O '24

New England

Bus activities in New England increasing. Bus Transportation 3:538 N '24

New Jersey

Buses carry 200,000,000 yearly in Jersey. Bus Transportation 4:99 F '25

Jersey's '23 bus traffic close to quarter billion. Bus Transportation 3:146 Mr '24

Modern equipment and service sell the ride at Haledon, N.J. il Bus Transportation 3: 261-4 Je '24

Public service bus revenue $4,133,120 in 1924. Bus Transportation 4:208 Ap '25

Transportation conditions in New Jersey becoming stabilized. L. F. Conlon. map Bus Transportation 4:507-9 O '25

New Orleans, Louisiana

Boulevard bus service operated in New Orleans. il Elec Ry J 66:542 O 3 '25

New York (city)

Another bus plea in New York by Service bus corporation. Elec Ry J 64:364 S 6 '24

Board outlines fifty-seven bus routes for greater New York. map Bus Transportation 4:149-50 Mr '25

Bus ownership demise. Elec Ry J 66:656 O 10 '25

Bus report presented in New York. Elec Ry J 65:349-50 F 28 '25

Bus routes urged for city by Board of transportation. Comm & Fin Chr 121:708 Ag 8 '25

Coach and bus operation in New York. J: A. Beeler. il map Elec Ry J 64:195-8 Ag 9 '24

Lively hearing in New York on buses. Elec Ry J 64:744-5 O 25 '24

Making hay while the sun shines in New York; sightseeing buses. il map Bus Transportation 3:351-5 Ag '24

New York line asks that Fifth avenue company's plea be put over pending its own application. Elec Ry J 64:332 Ag 30 '24

116 miles of new bus lines planned in New York. maps Bus Transportation 3:434-5 S '24

Privately-owned buses for New York City urged. Bus Transportation 3:538-9 N '24

MOTOR bus lines—New York (city)—*Continued*
Rules governing bus operation tightened. Elec Ry J 64:975 D 6 '24
See also Fifth avenue coach company

New York (state)

Consolidation of bus lines in central New York. Bus Transportation 4:147 Mr '25
Consolidation of New York state lines reported. il Bus Transportation 4:47 Ja '25
First step won for suburban New York system. Bus Transportation 4:251 My '25
Joint bus and trolley terminal at Auburn, New York, for central New York bus lines. il Bus Transportation 3:305-8 Jl '24
Operating a De Luxe tour through Rip Van Winkle land. il map Bus Transportation 4: 225-6 My '25
21 lines combine in New York. Bus Transportation 4:255 My '25

Newburgh, New York

Two years of all-bus operation in Newburgh. il map Elec Ry J 65:813-15 My 23 '25

Norfolk, Virginia

Buses under new ordinances in Norfolk. Elec Ry J 66:339-40 Ag 29 '25

North Carolina

Bus law passed in North Carolina. Bus Transportation 4:152 Mr '25

Ohio

Co-ordinating interurban service: Pennsylvania Ohio electric company. il map Elec Ry J 64:379-82 S 13 '24
Main line, branch line and shuttle service given in Ohio by open-country system. il diag map Bus Transportation 4:61-2 F '25
Organized intercity service furnished with touring cars. il map Bus Transportation 3: 171-3 Ap '24

Paris, France

Bus network covers French metropolis. il diags map Bus Transportation 3:27-9 Ja '24
Les transports en commun de la région parisienne; conditions économiques d'exploitation du réseau. C: Dantin. Génie Civil 85: 310-15, 344-5 O 11-18 '24

Pennsylvania

Bus and trolley work together in unified interurban system in Pennsylvania and Delaware. il map Bus Transportation 4:79-83 F '25

Philadelphia

Philadelphia co-ordinates bus and rail. il map Elec Ry J 66:197-200 Ag 8 '25

Portland, Oregon

Accounting system gives picture of operation. Camas stage co., Portland, Ore. W. L. Fowler. Bus Transportation 4:211-14 My '25
Portland stage depot is prospering. Bus Transportation 3:250 Je '24

Rhode Island

Union street railway starts interstate bus line between New Bedford, Mass., and Providence, R. I., passing through Fall River. il map Elec Ry J 66:117-19 Jl 25 '25

Rochester, New York

Central location feature of new Rochester depot. il Bus Transportation 4:181-2 Ap '25

St Louis, Missouri

Board hears pro and con of new St Louis routes. Bus Transportation 3:237 My '24
Bus can aid St Louis' growth. R: W. Meade. Bus Transportation 3:285 Je '24
Bus ordinance proposed. Elec Ry J 64:782 N 1 '24
Bus war reopened in St Louis. Elec Ry J 66: 69 Jl 11 '25
New bus ordinance proposed for St Louis. Aera 13:820-4 D '24
Railway's bus plea unheeded. Elec Ry J 64: 363-4 S 6 '24
Rerouting facilitates handling emergency traffic. il map Bus Transportation 4:431-2 S '25
Seventy-five double-deckers now used in St Louis. il map Bus Transportation 3:221-3 My '24
Transit conditions in St Louis today; abstracts. M. Buck and C. W. Stocks. il map plan Elec Ry J 65:397-407 Mr 14 '25; Bus Transportation 4:169-75 Ap '25

San Antonio, Texas

Buses build good will and save money. il Bus Transportation 3:61-2 F '24

Southern states

Southern bus sales climb as new lines open and prosperity grows. H. F. Podhaski. Automotive Ind 52:941-2 My 28 '25

Texas

Bus industry growing in southwest Texas. il Bus Transportation 3:237-8 My '24

Toronto

Getting a start with special work. il Bus Transportation 4:499-502 O '25
When winter comes in Toronto. il plans Bus Transportation 4:421-3 S '25

United States

Bus industry climbs to new heights during 1923. Bus Transportation 3:6-8 Ja '24
Estimate of passenger transportation by buses. Ry R 76:317 F 14 '25
From Chicago to Washington by bus. Bus Transportation 4:430 S '25
Future of the motor bus. J: A. Ritchie. Bus Transportation 4:229-32 My '25
How transportation by bus has grown in one year. E: F. Loomis. Bus Transportation 4:77-8 F '25
Motor bus in the transportation system of the United States. Econ W n s 30:512-14 O 10 '25
News of the road reviewed. Bus Transportation 4:63-6 F '25
Recent bus developments. Elec Ry J 65:671, 707, 745, 788-9, 828-9, 865 Ap 25-My 30 '25

Washington, D.C.

Circus tricks taken out of sightseeing business. R. McDaniel. il Bus Transportation 4: 109-12 Mr '25

Washington (state)

City built with buses; Longview, Wash. il map Bus Transportation 3:495-7 N '24
Combination motor and electric terminal opened in Tacoma. il Bus Transportation 3: 259-60 Je '24
Interstate bus line decisions less sweeping than at first supposed. H. L. Cobb. Automotive Ind 52:508-9 Mr 12 '25; Elec Ry J 65:384 Mr 7 '25
Linking interurban and stage. W. H. Somers. maps Aera 12:1356-61 Mr '24

West Virginia

Quantity production methods; can they be used to advantage in coal mining camps? il map Bus Transportation 4:5-8 Ja '25

Wisconsin

North Shore Line eliminates bus competition; operates its own fleet. il map Ry Age 77:275-7 Ag 16 '24

MOTOR bus lines, Municipal
Coach and bus operation in New York. J: A. Beeler. il map Elec Ry J 64:195-8 Ag 9 '24
Municipal buses meet municipal ferry boats. C. B. Boardman. il Bus Transportation 3: 308-9 Jl '24

MOTOR bus lines, School
Consolidation of schools and pupil transportation; the use of the automobile. L. A. King. diag Ann Am Acad 116:69-80 N '24

MOTOR bus lines, School—*Continued*
Public pays, but less each year; operating expenses kept on the down grade by Strahan consolidated schools. il Bus Transportation 4:130-1 Mr '25
Relation of the motorbus to development of consolidated schools in the South. il Manuf Rec 87:93-5 Ja 1 '25
School buses do better with adult drivers. il map Bus Transportation 3:309-10 Jl '24
Three sizes of seats for carrying cripples to school. il Bus Transportation 4:372 Ag '25

MOTOR bus lines, Tourist
Bus tours that get somewhere and back again; International motor tours company. il Bus Transportation 3:553-5 D '24
Capitalizing the demand for summer outings; Ridgewood sightseeing auto company, inc., Brooklyn, N.Y. il Bus Transportation 4: 380-1 Ag '25
Chicago, North Shore and Milwaukee railway runs motor coach tours. Aera 12:1935-6 Je '24
Circus tricks taken out of sightseeing business. R. McDaniel. il Bus Transportation 4: 109-12 Mr '25
Consolidation builds 1,700-mile intercity line; Borderland transit company operates between Dallas, Tex., and Los Angeles, Cal. Bus Transportation 4:224-5 My '25
Getting a start with special work. il Bus Transportation 4:499-502 O '25
Making hay while the sun shines in New York; sightseeing buses. il map Bus Transportation 3:351-5 Ag '24
Operating a De Luxe tour through Rip Van Winkle land. il map Bus Transportation 4: 225-6 My '25
Organized intercity service furnished with touring cars. il map Bus Transportation 3: 171-3 Ap '24
Over the top of the world by bus; the Rocky Mountain transportation company. il map Bus Transportation 3:363-7 Ag '24
Routing controlled by a central dispatching system. il Bus Transportation 4:162 Ap '25
Stage consolidation offers attractive scenic route in tourists' paradise. il map Bus Transportation 3:268-9 Je '24
Tips from the Royal Blue line on sightseeing operation. W. F. Smith. il map Bus Transportation 3:311-14 Jl '24

Advertising
Tour folder which gets the business. il Bus Transportation 4:330 Jl '25

MOTOR bus tires. See Tires, Motor bus

MOTOR bus trailers
Four-wheel passenger trailer designed for buses. diags Automotive Ind 52:904 My 21 '25

MOTOR buses
Acme turns out complete vehicle. il Bus Transportation 4:345 Jl '25
At the automobile shows. il Bus Transportation 4:88-9 F '25
Birney safety buses exhibited at St Louis. il Elec Ry J 63:553-4 Ap 5 '24
Brakes, engine throttle, doors, all controlled by compressed air in city-type buses. il diags Bus Transportation 3:165-8 Ap '24
Buses becoming better passenger cars every day. H. Chase. il Automotive Ind 51:569-73 O 16 '24
Buses rebuilt to give more seat-miles at lower operating cost. il Bus Transportation 4: 127-8 Mr '25
Buses to compete with private automobiles in Kansas City. il diags map plans Elec Ry J 66:43-8 Jl 11 '25
Carolina intercity sedan seats twelve, lengthened 35 in. il Bus Transportation 4: 292 Je '25
Chassis rebuilt for eleven passengers. il Bus Transportation 3:574 D '24
Club-car bus for interurban service. Elec Ry J 66:448 S 19 '25
College glee club pays 50 cents a mile on long tour. il Bus Transportation 4:383 Ag '25
Comprehensive bus service in Kansas City. E. B. Sanders. il Aera 14:356-61 O '25
Detroit local communities to be served by 21-passenger vehicles. il Bus Transportation 4:178-9 Ap '25
Detroit to purchase 50 double-deck 61-passenger motorbuses. il diags Automotive Ind 51:850-1 N 13 '24
Developments in the home of the automobile. W. F. Evans. il Bus Transportation 4:83-5 F '25
Diagonal top seating new in double-decker. il Bus Transportation 4:570-3 N '25
Double-deck bus operation on Pacific coast. il Bus Transportation 3:58 F '24
Double-deck buses for Detroit. il Elec Ry J 65:753 My 9 '25; Bus Transportation 4: 240-2 My '25
Double-deck motor omnibus. R: W. Meade. Soc Auto Eng J 14:209-16 F '24; Excerpts. Bus Transportation 3:66-8 F '24; Discussion. Soc Auto Eng J 15:167-70 Ag '24
Double-deckers used to decrease operating costs. il Bus Transportation 4:440-1 S '25
Engine and differential off center. il diag Elec Ry J 64:564-5 O 4 '24
Engine is offset in one of three new models of the Yellow coach co. il diags Automotive Ind 51:915-17 N 27 '24
Example of English one-man bus. il Bus Transportation 3:69 F '24
Fifth avenue coach co. designs low 55-passenger double deck bus. il Automotive Ind 53: 286-7 Ag 20 '25
Four wheels on rear drive unit. diag plan Bus Transportation 3:83 F '24
Free bus rides provided for bank depositors. il map Bus Transportation 3:266-7 Je '24
Future problems of motorbus engineering. A. F. Masury. diags Soc Auto Eng J 15:426-30 N '24; Same cond. Automotive Ind 51:555-6 S 25 '24
Graham brothers introduce one-ton truck and two new bus chassis. D. Blanchard. il Automotive Ind 51:772-3 O 30 '24
Heavy highway car for railroad use. il Ry Age 79:44-5 Jl 4 '25
How service is developing in Holland. T. M. Van der Stempel. il Bus Transportation 4: 161-2 Ap '25
Increased traffic leads to doubling of vehicle capacity. il Bus Transportation 3:345-7 Ag '24
Influence of the automobile on regional transportation planning. G: A. Damon. Am Soc C E Pro 51:638-40 Ap '25
International bus has four-wheel air-operated brakes. diags Automotive Ind 50:1216-17 Je 5 '24
Lang bus body for Studebaker chassis. il Elec Ry J 66:173-4 Ag 1 '25
Lastkraftwagenbau in Deutschland. E. Aders. il diags Zeit Ver Deutsch Ing 69:457-63, 589-94 Ap 11, My 2 '25
Los Angeles starts use of double-deck Fageol buses. il Elec Ry J 63:740 My 10 '24
Low floor level gets Australian order. Bus Transportation 4:259-60 My '25
Low lines on city bus. il Bus Transportation 3:132 Mr '24
Mass transportation offered on single level; eight-wheel articulated Versare. il diag Bus Transportation 4:327-30 Jl '25
Modern equipment and service sell the ride at Haledon, N.J. il Bus Transportation 3: 261-4 Je '24
Motorbus engineering indications; abstracts of S.A.E. papers. Soc Auto Eng J 15:276-81 O '24
Motorbus transportation. A. E. Hutt. Soc Auto Eng J 14:591-3 Je '24; Discussion. 14: 573-4; 15:251-8 Je, S '24
Mountain type chassis takes city and intercity bodies. il Bus Transportation 4:240 My '25
Nearly 6,300 new buses were in service during 1923. Bus Transportation 3:25 Ja '24
New bus with removable top is installed by Fifth ave. coach co. il Automotive Ind 50: 614-15 Mr 13 '24; Bus Transportation 3:157 Ap '24; Elec Ry J 63:668 Ap 26 '24

MOTOR buses—*Continued*
New de luxe buses in production. il diags Bus Transportation 3:178-9 Ap '24
New double-decker comes out of the West. il Bus Transportation 3:201-2 My '24
New Jersey company may build its own equipment. il Bus Transportation 4:554-5 N '25
New six-wheel, double-deck bus, brakes on all wheels, announced by the Moreland motor truck co. il Automotive Ind 51:613-14 O 2 '24
New York railways designs bus. il plan Elec Ry J 66:349-51 S 5 '25; Bus Transportation 4:442-3 S '25
Notes on automobile stages in California. F. D. Howell. il diag Soc Auto Eng J 15:292-9 O '24; Same cond. Bus Transportation 3:462-4 O '24; Abstract. Automotive Ind 51:559-61 S 25 '24; Discussion. Soc Auto Eng J 16: 321-6 Mr '25
Offset powerplant of Gotfredson bus increases aisle space. il diags Automotive Ind 52:489-91 Mr 12 '25
Operation and maintenance of the motorbus. J. B. Stewart, jr. diag Soc Auto Eng J 15: 311-16 O '24; Excerpts. Automotive Ind 51: 554-5 S 25 '24; Excerpts. Bus Transportation 3:465 O '24; Discussion. Soc Auto Eng J 16: 316-18 Mr '25
Periscope permits one-man double-deck operation. il Bus Transportation 4:287 Je '25
Pickwick designs buffet vehicle. il Bus Transportation 4:527 O '25
Pneumatic-tired express bus introduced in Paris. W. F. Bradley. il diag Automotive Ind 50:654-5 Mr 20 '24
Progress in bus and rail car design shown at Paris exhibit. W. F. Bradley. il diag Automotive Ind 49:1044-8 N 22 '23
Removable upper deck builds traffic for Spokane buses. il Bus Transportation 4:498 O '25
Replaceable panels feature six-wheel design. il Bus Transportation 3:324-5 Jl '24
Riding comfort secured on cushion tires. il Bus Transportation 3:455-7 O '24
Road equipment steps ahead in 1924. R. E. Plimpton. il Bus Transportation 4:55-61 F '25
Russian cooperative society buys eight English buses. il plan Automotive Ind 51:160 Jl 17 '24
Sedan type bus added to Reo line. il Bus Transportation 3:275 Je '24
Shoestringing to super-service; United States buses built for easy riding. il Bus Transportation 4:377-9 Ag '25
Six-cylinder engine and four-wheel brakes feature new Reo bus. il Automotive Ind 50:499-501 F 28 '24; Bus Transportation 3:131-2 Mr '24
Six-wheel bus, marketed by new concern, has novel features. H. Chase. il Automotive Ind 51:97-100 Jl 10 '24
Six-wheeled motor bus built by Laurin & Klement under Martin Rocking Fifth Wheel license. il Automotive Ind 50:1289 Je 12 '24
Six-wheeler developed by C. M. Crosson and A. H. Lacey has flexible suspension and drive. il Bus Transportation 3:423-4 S '24
Smaller buses made by Yellow coach company. il Elec Ry J 66:560-1 O 3 '25
Special bus for inspection trips. il Elec Ry J 65:54 Ja 10 '25
Special party work leads to building of touring type bus. il Bus Transportation 3:451 O '24
Spiral bevel drive on medium-duty chassis. il Bus Transportation 3:273 Je '24
Top deck will add twenty-six passenger seats. il Bus Transportation 3:77 F '24
Turnbuckle framing and rear passenger exit are features of California city-type body. il Bus Transportation 4:232-3 My '25
Typical stage and bus used in California passenger service. il Bus Transportation 2:579 D '23
Upper deck inclosed for winter. J. H. Lucas. il Elec Ry J 65:192 Ja 31 '25
Worm drive on light-duty bus. il Bus Transportation 3:226-7 My '24

See also Electric buses; Jitney buses; Motor bus lines; School children—Transportation; Trackless trolley; *also* Fifth avenue coach company, New York

Axles

American stock rear and front axle specifications; tabulation. Automotive Ind 50:448-50 F 21 '24
Clark axle designed for 18-passenger buses. diag Automotive Ind 51:1050 D 18 '24
Double reduction axle has air brake attachment. il Bus Transportation 3:477 O '24
Eaton bus axle has herringbone gears in final step of double reduction. diags Automotive Ind 51:806 N 6 '24
Machining motor bus axle housings. H. Campbell. il diag Am Mach 60:699-700 My 8 '24
New Flint bevel gear bus axle has straddle-mounted driving pinion. diag Automotive Ind 52:238 F 5 '25
New Timken axle designed for small buses and 1½ ton truck chassis. diag Automotive Ind 53:468 S 17 '25
Shaft and wheel brakes carried on same axle. il Bus Transportation 2:584 D '23
Shuler makes new axle for double-deck buses. diag Automotive Ind 50:981 My 1 '24
Standard and wide gages in new bevel gear axle. il Bus Transportation 4:194 Ap '25

Baggage compartments

All-metal compartment for baggage. il Bus Transportation 4:449-50 S '25
Six simple ways to carry baggage. il Bus Transportation 3:559-61 D '24

Bodies

Body construction shows many new ideas. C: Gordon. il diags Bus Transportation 3:17-22 Ja '24
Bus bodies are more comfortable and luxurious than ever. K. W. Stillman. il plan Automotive Ind 53:748-51 O 29 '25
Carpenter builds heavy-duty body. il diags Bus Transportation 3:209-10 My '24
City-type body created and built by operating company. il plans Bus Transportation 3:299-302 Jl '24
Developments in motorbus-body design. H. G. Bersie. il diags Soc Auto Eng J 15:346-51+ O '24; Abstracts. Bus Transportation 3:467 O '24; Automotive Ind 51:561 S 25 '24; Discussion. Soc Auto Eng J 16:310-12 Mr '25
Duralumin in all-metal body. il Bus Transportation 4:451-2 S '25
Fabric-paneled body for bus service. il Bus Transportation 3:476-7 O '24
New bodies for Ford chassis. il Bus Transportation 4:514 O '25
Record of bus bodies built. Bus Transportation 4:78 F '25
Seat construction saves 500-lb. weight. il Bus Transportation 4:89 F '25
Steel frame used in new bus body. il Elec Ry J 66:212 Ag 8 '25; Same. Bus Transportation 4:400 Ag '25
Strength and lightness combined in duralyte. il Automotive Ind 53:88 Jl 16 '25
Two compartments in Fitzjohn body. Bus Transportation 4:28-9 Ja '25

See also Motor buses—Painting

Brakes

See Brakes, Motor bus

Chassis

Adjustable radius rods a feature of Rehberger chassis. il Bus Transportation 4:28 Ja '25
British bus chassis has u-shaped frame dip under rear axle. M. W. Bourdon. il Automotive Ind 53:754 O 29 '25
Fisher fast freight; new commercial chassis adapted for either truck or bus body. il Automotive Ind 52:149 Ja 22 '25
Front wheel drive chassis without axles is developed for bus purposes. diags Automotive Ind 51:678-80 O 16 '24

MOTOR buses—Chassis—*Continued*
New British low level bus chassis has servo front brakes. M. W. Bourdon. il Automotive Ind 53:89-91 Jl 16 '25
Refinements mark chassis development: a review of the progress made during 1923. R. E. Plimpton. il Bus Transportation 3:9-11+ Ja '24
Schacht enters bus field with low hung chassis having ten-speed gearset. il Automotive Ind 51:1078-9 D 25 '24
Special construction permits optional wheelbase. il Bus Transportation 3:370 Ag '24
Stewart announces chassis. Bus Transportation 4:243 My '25
Stewart brings out new bus chassis built in two sizes. D. Blanchard. il Automotive Ind 52:710-11 Ap 16 '25
Studebaker light bus chassis. il Elec Ry J 65:977-8 Je 20 '25; Bus Transportation 4: 346 Jl '25

Cleaning

Steam spray for cleaning running gear. il Bus Transportation 4:350 Jl '25
Washed, fueled and oiled in three minutes for half a dollar. il diag Bus Transportation 3: 295-8 Jl '24

Control

Bus speed limited by throttling device. il Bus Transportation 4:30 Ja '25

Cost of operation

See Motor bus lines—Cost of operation

Design

Les autobus express de Paris. R. Latourade. il diags Génie Civil 86:12-15 Ja 3 '25
Bus design develops rapidly during 1924. H. Chase. diags Automotive Ind 52:378-81 F 26 '25
Detroit develops new double-deck bus. diags plans Elec Ry J 64:553-5 O 4 '24
Engine and drive system mounted off center. il plan Bus Transportation 3:472-3 O '24
European motor bus design. il Elec Ry J 64: 448-52 S 20 '24
Latest in touring bus design. il Bus Transportation 3:317 Jl '24
Many English bus regulations can be used to advantage in United States. W. F. Rockwell. Automotive Ind 50:932-3 Ap 24 '24
S.A.E. discusses advantages to be obtained from more specialized and simplified design. Elec Ry J 64:561 O 4 '24
Trend of large commercial motor-vehicle design. A. F. Masury. il Soc Auto Eng J 17:236-41 S '25; Excerpt. Bus Transportation 4:40-1 Ja '25; Discussion. Soc Auto Eng J 17:241-4 S '25
Worm driven cranked axle is novel feature of latest L.G.O. bus. M. W. Bourdon. il diags Automotive Ind 50:184-8 Ja 24 '24

Doors

Door control for buses is interlocked with air brake system. P. M. Heldt. diags Automotive Ind 53:144-6 Jl 23 '25
Service exit applied at the rear of Fitzjohn 21-passenger body. il Bus Transportation 4:347 Jl '25

Drivers' compartments

Making good use of drivers' compartment. il Bus Transportation 3:406 S '24

Electric equipment

Bus generator standards discussed by A.E.A. Automotive Ind 52:874 My 14 '25; Bus Transportation 4:312 Je '25
Electrical repairs concentrated in St Louis. il Bus Transportation 4:565-7 N '25
Field regulation used in new 12-volt system. il diag Bus Transportation 4:242-3 My '25
Higher voltage systems suggested for heavy-duty motor buses. A. M. Dudley and W. E. Menzies. Bus Transportation 3:169-71 Ap '24
Keeping up the electrical system. il diags Bus Transportation 3:251-3 Je '24
New bus generator designed by Dayton engineering laboratories co., equipped with double output control. il diag Automotive Ind 52:871-2 My 14 '25
Standard motorbus voltage systems compared. L. P. Michaud. Soc Auto Eng J 16:281-2 Mr '25
Starting motors and generators discussed; coach specifications recommended. Soc Auto Eng J 16:409-10 Ap '25
Three sizes of bus generator fixed as standard by A.E.A. A. H. Packer. diag Automotive Ind 52:506-7 Mr 12 '25
Type of screw connector recommended for motorcoaches. diags Soc Auto Eng J 17:151 Ag '25
Voltage-regulated systems; abstracts. A. A. Skinner. Soc Auto Eng J 16:280-1 Mr '25; Bus Transportation 4:249-50 My '25

Equipment

Ternstedt introduces new line of heavy duty bus and taxi hardware. il Automotive Ind 50:1233-5 Je 5 '24

Exhibitions

A.E.R.A. exhibit. il Bus Transportation 4: 515-21, 571-6 O-N '25
Automotive rolling stock at Atlantic City. il Bus Transportation 3:509-11 N '24
Bus at four big automobile shows. il diags Bus Transportation 3:71-3 F '24
Exhibits feature Illinois bus meeting. il Bus Transportation 4:408 Ag '25
National bus show scheduled at Detroit, Nov. 16-21. il plan Bus Transportation 4:555-6 N '25
Seventh International commercial motor transport exhibition, Olympia, Oct. 29-Nov. 7. il diags Engineer 140:457-60 O 30 '25
Sightseers stand out at Boston. il Bus Transportation 3:174-5 Ap '24

Gearing

American stock gearset specifications; tabulation. Automotive Ind 50:441 F 21 '24
Gear changes doubled. Bus Transportation 4: 137+ Mr '25
Hydraulic transmission for omnibuses. diag Engineer 137:292 Mr 14 '24
Novel gear shifting mechanism chief feature of German bus. B. R. Dierfeld. diags Automotive Ind 50:575-6 Mr 6 '24
Worm gives 250,000 miles. il Bus Transportation 4:214 My '25

Heating

Auxiliary heating of buses. Bus Transportation 4:27, 135 Ja, Mr '25
Devises hot air system of heating. Bus Transportation 3:475 O '24
Heater sets in floor of body. il Bus Transportation 3:227 My '24
Heating arrangement devised for cross-seat body. diag Bus Transportation 4:16 Ja '25

Lighting

Adlake brings out interior lights. il Bus Transportation 4:194 Ap '25
Better motorbus illumination. Soc Auto Eng J 15:287-8 O '24
Efficient bus lighting. L. C. Porter and A. C. Roy. Elec Ry J 64:922-3 N 29 '24
Heavy headlamp for bus service. diag Bus Transportation 3:575 D '24
Higher voltage systems suggested for heavy-duty motor buses. A. M. Dudley and W. E. Menzies. Bus Transportation 3:169-71 Ap '24
Improvements are making for better bus lighting. A. A. Skinner. il Bus Transportation 3:55-6 F '24
Lighting the motorbus. W. C. Brown. il diags Soc Auto Eng J 15:259-64 S '24; Abstract. Bus Transportation 3:399-401 S '24
Motorcoach lamp mounting. diags Soc Auto Eng J 16:589 Je '25
Passing light for night driving. il Bus Transportation 3:228-9 My '24
Portable screen simplifies focusing. diags Bus Transportation 3:357 Ag '24
Present practice in motor bus lighting and suggestions for improvement. L. C. Porter and A. C. Roy. il Illum Eng Soc 19:456-71 My '24; Abstract. Illum Engr 17:106-7 Je '24; Discussion. Illum Eng Soc 19:471-4 My '24

MOTOR buses—Lighting—*Continued*
Reflector units favored for city type motor bus lighting. J: Cornish. diag Bus Transportation 3:257-8 Je '24
Road light control from steering post. il Bus Transportation 4:194 Ap '25
Safety a feature in combination stop, warning and tail light. il Bus Transportation 4:560 N '25
Uniform diffusion in lighting fixture. il Bus Transportation 3:325-6 Jl '24
What good steplighting does. A. C. Roy. il Bus Transportation 4:124 Mr '25

Painting
Celluloid enamels air-sprayed, finish bodies in four days. il Bus Transportation 3:517-18 N '24
Precautions in using pyroxylin finishes. Bus Transportation 4:450 S '25
Refinishing with nitro-cellulose materials. Bus Transportation 4:340-1 Jl '25
Simple method of decorating buses. il Bus Transportation 4:448-9 S '25
Striping aided by paper strips. il Bus Transportation 4:567 N '25

Repair
Cutting maintenance costs by watching equipment. R. McDaniel. il Bus Transportation 4:168 Ap '25
Electrical repairs concentrated in St Louis. il Bus Transportation 4:565-7 N '25
Eleven cents a mile saved by cutting maintenance corners. il Bus Transportation 4: 313-15 Jl '25
How omnibuses are maintained in London. il Elec Ry J 64:454-6 S 20 '24
Keen kinks for swifter service. il plan Bus Transportation 3:116-18 Mr '24
Methods of repair organization—some British examples. Bus Transportation 3:216 My '24
Pennsylvania-Ohio coach lines believes in contracting for major repairs. il Bus Transportation 4:113-15 Mr '25
Pit workshop combines storage and bench facilities. il diags Bus Transportation 4:112 Mr '25; Elec Ry J 65:469 Mr 21 '25
Record forms that save time for 100-bus system. il Bus Transportation 2:567-70 D '23
Right maintenance methods cut repair costs. F. R. Fageol. il Bus Transportation 4:443-4 S '25
Suggestions for better maintenance. Bus Transportation 3:37-8 Ja '24
System for controlling motorbus maintenance. R. E. Fielder. Soc Auto Eng J 16:345-54 Mr '25; Same. Aera 13:1693-1705 My '25
Unit overhauls carried on with many home-built devices. il Bus Transportation 3:452-5 O '24; Abstract. Am Mach 61:770 N 13 '24
See also Motor bus lines—Shops

Safety devices and measures
Safety views of an insurance engineer. G: D. Becker. il Bus Transportation 4:119-20 Mr '25

Seats
Diagonal top seating new in double-decker. il Bus Transportation 4:570-3 N '25
Dry seats for open bodies. il Bus Transportation 4:341 Jl '25
Seat bases with air spring. il Bus Transportation 3:223 My '24

Signals
Traffic signal on bus tells four stories to following motorists. il Bus Transportation 4:293 Je '25

Size
How the size of equipment affects net income. J. A. Emery. Bus Transportation 4:491-4 O '25

Snow scrapers
Root snow scraping device. il Bus Transportation 4:570 N '25

Specifications
American gasoline motor bus specifications; tabulation. Automotive Ind 50:420-1; 52: 382-3 F 21 '24, F 26 '25
Coach specifications criticized. Soc Auto Eng J 15:186-8 S '24
Condensed specifications of motor vehicles for bus service. Published in monthly numbers of Bus transportation
Motorcoach regulations proposed as basis for future municipal regulations. Soc Auto Eng J 15:493-4 D '24; Same. Automotive Ind 51:1039 D 18 '24; Discussion. Soc Auto Eng J 15:492-3; 16:28-32+ D '24-Ja '25
Motorcoach specifications proposed. Soc Auto Eng J 16:589-90 Je '25; Excerpts. Automotive Ind 52:983 Je 4 '25; Bus Transportation 4:351-2 Jl '25
New Jersey commission drafts bus specifications. Automotive Ind 51:635 O 9 '24
New Jersey issues motor bus rules. Automotive Ind 52:89+ Ja 8 '25; Discussion. Bus Transportation 3:590 D '24
Starting motors and generators discussed; coach specifications recommended. Soc Auto Eng J 16:409-10 Ap '25

Springs and suspensions
Air spring combined with bumper. il Bus Transportation 2:584 D '23
Riding comfort secured on cushion tires. il Bus Transportation 3:455-7 O '24
Special type bus spring with unequal legs developed by Detroit steel products co. il Automotive Ind 52:736 Ap 23 '25; Bus Transportation 4:195 Ap '25
Suspending the motor car body on air. il Sci Am 130:93 F '24
Two-stage spring for easy riding. il Bus Transportation 4:347 Jl '25

Standards
Effect of conflicting state laws on bus body design. G: H. Scragg. Bus Transportation 4:356 Jl '25
Proposed standardization in New Jersey. Bus Transportation 3:241 My '24

Terminology
Coach vs. bus. G: H. Scragg. Bus Transportation 4:395 Ag '25

Testing
Bus hill-climbing ability tested before railway men. Elec Ry J 66:266 Ag 15 '25
Public service railway of New Jersey is testing buses. Elec Ry J 63:247-8 F 16 '24

Ventilation
Modern bus needs forced ventilation and increased heat supply. L. Yorke. diags Automotive Ind 51:640-1 O 9 '24
Nichols-Lintern ventilator. il Bus Transportation 4:453 S '25

Wheels
Greater loads may lead to more wheels. il Bus Transportation 4:39-40 Ja '25
Multi-wheel vehicles, their advantages and disadvantages. A. W. S. Herrington. Soc Auto Eng J 16:15 Ja '25; Abstract. Automotive Ind 51:1093-4 D 25 '24; Discussion. Soc Auto Eng J 16:16 Ja '25
New wheels on California transit system. Bus Transportation 3:115 Mr '24
Rear end quickly removable on Pacific coast six-wheelers. il Bus Transportation 3:396-7 S '24
Replaceable panels feature six-wheel design. il Bus Transportation 3:324-5 Jl '24
Six-wheel stages adopted on Pacific coast. Bus Transportation 3:29 Ja '24
Steel wheel developed for dual service. diag Bus Transportation 4:291 Je '25
Two wheels locked positively. diag Bus Transportation 4:137 Mr '25

Windshields
Double glass prevents windshield frosting. diag Bus Transportation 4:8 Ja '25

MOTOR buses, Gasoline-electric
Albany starts gas-electric program. il Bus Transportation 4:166-7 Ap '25
All gear shifting eliminated on new gas-electric Yellow coach. H. Chase and A. H. Packer. il diags Automotive Ind 52: 456-60 Mr 5 '25
Arendt-Morton gas-electric bus proves its worth in 10,000 mile test. il diag Automotive Ind 51:195-7 Jl 24 '24; Sci Am 131:326 N '24
Eight-wheeled bus with the gas-electric drive is developed by the Versare corporation of Albany. il diags Automotive Ind 52:700-2 Ap 16 '25
Electric drive for gasoline busses. J. C. Thirlwall. il Manuf Rec 88:102 Jl 9 '25
Electric drive for gasoline-propelled motor-buses. H: S. Baldwin. il diags Soc Auto Eng J 17:95-106 Jl '25; Same. Gen Elec R 28:608-21 S '25; Abstracts. Automotive Ind 52:1141-2 Je 25 '25; Bus Transportation 4: 352-4 Jl '25
Electric drive possibilities for railless self-propelled vehicles. K. A. Simmon. Elec J 22:481-4 O '25
First Yellow gas-electric bus completed. il Bus Transportation 4:192-3 Ap '25; Elec Ry J 65:604 Ap 11 '25
Gas-electric buses used in Albany. il map Elec Ry J 66:391-3 S 12 '25
Gas-electric drive for buses. J. C. Thirlwall. Elec Ry J 65:150-1 Ja 24 '25; Excerpt. Bus Transportation 4:96+ F '25
Now comes the eight-wheel coach. il diag Aera 14:421-8 O '25
Philadelphia likes gasoline-electric buses. il Bus Transportation 4:409 Ag '25
Philadelphia rural transit company to operate 225 gas-electric buses. il diag Elec Ry J 64:993-4 D 13 '24; Bus Transportation 4:21-2 Ja '25; Aera 13:1032-5 Ja '25; Management & Adm 9:258 Mr '25
Philadelphia's reasons for gas-electric buses. J. A. Queeney. Elec Ry J 65:151-2 Ja 24 '25; Same. Bus Transportation 4:95-6 F '25
Radical departure in bus design. il diag Elec Ry J 66:11-13 Jl 4 '25
Technical history of gas-electric drives. P. M. Heldt. il diags Automotive Ind 52:529-32 Mr 19 '25
Tillings-Stevens gas-electric bus introduced in America. il diag plan Automotive Ind 53:615-17 O 8 '25
Vesare-Westinghouse petrol-electric omnibus. il Engineering 120:323-5 S 11 '25

Testing
Fageol gas-electric bus makes test run. Elec Ry J 65:643-4 Ap 18 '25

MOTOR buses, Steam
European motor bus design. il Elec Ry J 64: 451 S 20 '24

MOTOR buyers, inc.
How the new Ford five-dollar-a-week plan is going to work. D. M. McDonald. Automotive Ind 51:437-8 S 4 '24; Excerpts. Ptr Ink 129:10 N 13 '24

MOTOR carriers association of California
Tariff bureau in California. Bus Transportation 4:296 Je '25

MOTOR cars (railroad)
A.E.R.A. report on heavy electric traction. Ry Age 79:719-21 O 17 '25; Elec Ry J 66: 622-3 O 10 '25
Annual $50,000,000 saving possible. F. J. Lisman. Ry Age 75:901-2 N 17 '23
Articulated trains and self-propelled cars: A. E.R.A. heavy electric traction report. diags Ry Age 77:641-3 O 11 '24; Aera 13:452-4 O '24
Automotive practice followed in new rail vehicle. il Bus Transportation 3:555-6 D '24
Brill motor car of large capacity. il Ry Mech Eng 99:21-3 Ja '25; Same cond. Ry Age 77: 1155-7 D 27 '24
Brill new high-power gasoline motor car train. il diags Ry R 76:318-23 F 14 '25; Automotive Ind 52:461-3 Mr 5 '25
C. & N.W. Ry. converts passenger coach into gas motor car. il diags Ry R 76:771-5 Ap 25 '25
Canadian National high power motor coach. il Ry Age 76:329-30 F 2 '24; Same. Ry Mech Eng 98:96-7 F '24
Le conjoncteur automatique à friction, système J. Fieux. diags Soc Ing Civils Bul 78: 261-6 Mr '25; Same. Génie Civil 86:360-2 Ap 11 '25
Development of railroad motor car; discussed in appendix to report of special committee of U.S. Chamber of commerce. Eng & Contr (Ry) 60:1304-6 D 19 '23; Ry R 74:82-4 Ja 5 '24
Double-bogie petrol rail car. il diag plan Engineer 137:152-3 F 8 '24
Economic position of motor transport. il diags plan Sci Am 130:10-12+ Ja '24
Edwards gasoline car with independent power units. il Ry Mech Eng 99:11-13 Ja '25
Edwards motor car delivered to Chicago, Burlington & Quincy R.R. il Ry R 76:701-2 Ap 11 '25
L'état actuel de la traction sur voies ferrées par moteurs à combustion interne. E. Brillié. il diags Soc Ing Civils Bul 78:199-260, pl 91-2 Mr '25; Same. Engineering 119: 491-3, 524-7, 558-60, 620-2, 684-7 Ap 17-My 1, 15, 29 '25; Same cond. Génie Civil 86: 325-33, 355-8 Ap 4-11 '25
Future ahead for the branch line. J: F. Layng. il plan Elec Ry J 66:514-15 S 26 '25
Gasoline motor car for branch lines. W. L. Bean. il Ry R 75:464-9 S 27 '24; Same. Soc Auto Eng J 15:306-10 O '24; Same abr. Ry Age 77:535-9 S 27 '24; Abstract. Automotive Ind 51:558 S 25 '24; Discussion. Soc Auto Eng J 16:318-21 Mr '25
Gasoline motor coaches Missouri Pacific R.R. il plan Ry R 75:307-10 Ag 30 '24
Gasoline motorized passenger coach, Minnesota Dakota & Western Ry. il diag Ry R 74:934-5 My 24 '24
Gasoline passenger car with hydraulic drive. il diags Ry Age 76:1507-9 Je 14 '24
Gasoline rail-car of power and stability. il Sci Am 129:401 D '23
Gasoline rail car operated by one man. il Ry Age 78:891 Ap 4 '25
Germans active in rail car design. P. M. Heldt. diags Automotive Ind 53:218-23 Ag 6 '25
Heavy duty motor car. il Ry R 74:473 Mr 8 '24
Heavy duty motor cars distribute track material. M. D. Carothers. Eng & Contr (G C) 63:1108 My 20 '25
Interesting data on the market for rail motor vehicles in Egypt. Ry R 76:745-6 Ap 18 '25
Italians build railcars to meet motor bus competition. F. A. Shepley. il Automotive Ind 50:1319-20 Je 19 '24
Locomotive and motor car orders in 1924. Ry Mech Eng 99:90-3 F '25
Mack builds railcar which will make railroad coaches convertible. il diags Automotive Ind 50:974-6 My 1 '24
Mack rail car with multiple unit motor control. il plan Ry Age 79:531-2 S 19 '25
Market summary of rail motor vehicles in Latin America. Ry R 76:550 Mr 14 '25
Modern motor rail-car. M. L. McGrew. il Soc Auto Eng 14:649-56 Je '24; Abstracts. Ry Age 76:975-7 Ap 19 '24; Automotive Ind 50:880-1 Ap 17 '24; Discussion. Soc Auto Eng J 15:195-8 S '24
Motor car service on heavy grade road. J: C. Ower. il Ry Age 77:195-6 Ag 2 '24; Same. Eng & Contr (Ry) 62:845-6 O 15 '24
Motor coach with oil transmission gear. il diags Engineer 139:308 Mr 13 '25
Motor rail-cars. J. W. Cain. Soc Auto Eng J 15:317-19 O '24; Discussion. 16:312-13 Mr '25
Motor railway inspection car. il diags Engineer 137:315-16 Mr 21 '24
Motorization of light-service rail-transportation. E. Wanamaker. Soc Auto Eng J 14:659-62 Je '24; Abstract. Ry Age 76:979-80 Ap 19 '24; Discussion. Soc Auto Eng J 15:196-8 S '24
Motorized railroad equipment. E. J. Brennan. il Soc Auto Eng J 14:656-9 Je '24; Abstract. Ry Age 76:977-9 Ap 19 '24; Discussion. Soc Auto Eng J 15:195-8 S '24

MOTOR cars (railroad)—*Continued*
Motors replace work trains. M. D. Carothers. il Ry Age 78:1042 Ap 25 '25
New gasoline railcar is developed by J. G. Brill co. il diags Automotive Ind 50:860-3 Ap 17 '25
New motor train delivered to Chicago Great Western. il diags Ry R 76:201-3 Ja 24 '25
New two-car motor train placed in service by the Boston & Maine R.R. Ry R 76:626 Mr 28 '25
Northern Pacific car is motorized. il diags Ry Age 78:567-8 Mr 7 '25
Petrol driven rail car with four-wheel drive. il Engineering 118:817-18 D 12 '24
Possibilities of the internal combustion engine. C. E. Brooks. Ry Age 78:1438-9 Je 13 '25
Progress in bus and rail car design shown at Paris exhibit. W. F. Bradley. il diag Automotive Ind 49:1044-8 N 22 '23
Railcar design problems presented to automotive engineers. P. M. Heldt. Automotive Ind 50:918-20 Ap 24 '24
Rail-car future looks bright. il Soc Auto Eng J 14:474-7 My '24
Railcar maintains steam train schedule in four month test. il diag Automotive Ind 51:432-4 S 4 '24
Rail motor cars have developed in 1923. il Ry R 74:82 Ja 5 '24
Railway motor car with two-speed reduction gear. il Ry R 74:819 My 3 '24
Record of motor car performance on the Santa Fe. Ry R 73:725-6 N 17 '23
Representative examples of railway coaches built in 1924. il Ry R 76:73 Ja 3 '25
Requirements in gasoline rail-car design. C. O. Guernsey. il diags Soc Auto Eng J 17: 74-80+ Jl '25; Abstract. Automotive Ind 52: 1139-41; Discussion. Soc Auto Eng J 17:609-12 D '25; Automotive Ind 52:1142-4 Je 25 '25
Scemia-Renault rail car. il diags Engineer 136:652 D 14 '23
Self-propelled car service on Canadian National Railways. il diags plans Ry R 76: 348-53 F 21 '25
Self-propelled passenger car on N.Y., N.H.& H. il diags Ry Mech Eng 98:534-7 S '24
Silent chain final drive is used on Drewry railcars. M. W. Bourdon. il diag Automotive Ind 49:1152-4 D 6 '23
Traction for light railways; report to the International railway congress. Engineering 120:38-9 Jl 10 '25
Trend in motor car design on steam railroads. E. J. Brennan. il Ry R 76:815-17 My 2 '25; Same cond. Ry Age 78:889-91 Ap 4 '25; Same. Ry Mech Eng 99:274-5 My '25
Twin motor rail car for the Burlington. il Ry Age 77:1013-15 D 6 '24
Two-car gasoline motor train for local service on main line, between Danville, Ill., and Mount Carmel. il Ry Age 78:401-2 F 14 '25; Same. Ry Mech Eng 99:149-50 Mr '25
Two-car motor train for the Mississippi Central. il diags Ry Mech Eng 97:830-2 D '23; Ry Age 75:899-900 N 17 '23; Ry R 73:761-3 N 24 '23
Use of motor cars calls for proper supervision. J. R. Watt. il Ry Age 75:1115-16 D 15 '23
Die wirtschaftlichkeit des triebwagenverkehrs. Geisler. Zeit Ver Deutsch Ing 68:1005 S 20 '24

Brakes

Difficult problems involved in power braking for motor vehicles. P. M. Heldt. diags Automotive Ind 50:656-60 Mr 20 '24

Gasoline-electric

Automotrice pétroléo-électrique Westinghouse. il plan Génie Civil 87:275-6 S 26 '25
Beardmore all-steel quick-running oil engine and its application to a Diesel-electric rail car. il Engineer 140:344-5 O 2 '25
Canadian National builds nine motor rail cars. il plans Ry Mech Eng 99:682-7 N '25; Same abr. Ry Age 79:695-9 O 17 '25
Canadian National develops oil-electric car. W. W. Baxter. il diags plans Ry R 77: 689-94 N 7 '25
Diesel-electric motor cars are used extensively on Swedish railroads. E. Nilsson. il diags Ry R 77:301-7 Ag 29 '25
Diesel-electric rail cars in Canada. il diag plan Engineer 140:430-1, 434 O 23 '25
Distinctive features involved in new gas-electric motor rail car. il diags Ry R 75:343-8 S 6 '24; Ry Age 77:371-3 Ag 30 '24
Double end controlled Brill gas-electric car. il plan Ry Age 79:757-8 O 24 '25
Gas electric car for the New Haven. il plan Ry Age 78:1135-7 My 9 '25
Gas-electric cars for the Northern Pacific. il Ry Age 78:474 F 21 '25
Gasoline-electric car. A. H. Candee. il plan Elec J 21:481-3 O '24
Gasoline-electric cars for branch lines. T. H. Murphy. il Elec J 22:496-8 O '25
New development of the gas-electric car. il Ry Mech Eng 98:599-601 O '24
New type gas-electric car for the Reading company. A. H. Candee. il diag plan Ry R 76:741-2 Ap 18 '25
Reading company's gas-electric rail car. D. W. Fisher. il plan Elec J 22:493-5 O '25
Rock Island converts McKeen cars to gas electric drive. E. Wanamaker. il Ry Age 79:507-11 S 19 '25

Safety devices

Safety device to prevent injuries due to derailment of gasoline operated motor cars. il Ry R 74:341-2 F 23 '24

Specifications

American gasoline rail car specifications; tabulation. Automotive Ind 50:404-5; 52:386 F 21 '24, F 26 '25

Steam

Railway steam car for New Zealand. il diags Engineer 139:570-1 My 22 '25; Abstract. Génie Civil 87:516 D 12 '25
Sentinel-Cammell steam rail motor at the British Empire exhibition. diags Engineering 118:6-8, pl 3-5 Jl 4 '24
Steam motor cars for a Porto Rican railroad. il Ry Age 78:793-4 Mr 21 '25

Storage battery

Fahrbereich der speicher-triebwagen. Elektrotech Zeit 45:1442 D 25 '24
Neuerungen im triebwagenverkehr. plan Zeit Ver Deutsch Ing 69:483-4 Ap 11 '25
La traction électrique par accumulateurs sur les grands réseaux. diags Génie Civil 85:523-6 D 6 '24

Trailers

Remorques légères, à roues orientables, pour auto-rails. M. Montillier. il diags Génie Civil 84:330-1 Ap 5 '24

MOTOR cars (street railroad)
Transportation costs reduced by use of gasoline rail cars. il Bus Transportation 3:24 Ja '24

MOTOR cycle engines
Overhead valve motorcycle engines increasing in England. M. W. Bourdon. il Automotive Ind 53:708-10 O 22 '25
Single cylinder motorcycles dominate field in England. Automotive Ind 50:446-7 F 21 '24

Manufacture

Making motorcycle cylinders. J. Leonard. diags Foundry 52:589-90 Ag 1 '24

MOTOR cycle industry and trade
American motorcycle exports from 1913 to 1923; tabulation. Automotive Ind 50:472-3 F 21 '24
American motorcycle exports from 1920 to 1924. Automotive Ind 52:553 Mr 19 '25
Cycle trade's record year. Economist 100: 956-7 My 16 '25
Final registration figures show 15,222,658 cars and trucks in United States. Automotive Ind 50:387-91 F 21 '24

MOTOR cycles
British motorcycles show improvement in 1000 mile test. Automotive Ind 50:1181 My 29 '24

MOTOR cycles—*Continued*
Harley Davidson adds single-cylinder models to motorcycle line. A. F. Denham. il Automotive Ind 53:338-9 Ag 27 '25
Kraftfahrrad mit zweitaktmotor. il diags Zeit Ver Deutsch Ing 68:1302 D 13 '24
Lightweight machines prove their popularity at British motorcycle show. M. W. Bourdon. il diags Automotive Ind 51:960-2 D 4 '24
New, light-weight Indian motorcycle announced to sell for $185. L. S. Gillette. il Automotive Ind 51:572 S 25 '24
New motorcycles improved in design, reduced in price. L. S. Gillette. il Automotive Ind 52:300-2 F 19 '25
1925 Harley-Davidsons show some changes and are slightly lower in price. L. S. Gillette. il Automotive Ind 51:486 S 11 '24
We got dealers to sell away from their doorsteps, Indian motorcycles. J. B. McNaughton. Ptr Ink 133:17-20 O 8 '25

See also Cycle cars; Motor cycle engines

Bibliography

Cycles and motor-cycles; a catalogue of the books, pamphlets, and periodicals in the Coventry public libraries. il Coventry Pub Lib Readers' Bul 1:78-89 My '23

Design

Motor cycle show. il diags Automobile Eng 13: 336-42 N '23
Ner-a-car. il diags Automobile Eng 14:32-8 F '24

Electric equipment

New Bosch electric generators have voltage control. P. M. Heldt. il diags Automotive Ind 52:576-8 Mr 26 '25

Exhibitions

Cycle and motor cycle show at Olympia. il Engineering 118:652-3 N 7 '24
Cycle and motor-cycle show at Olympia. il Engineering 120:388, 391-3 S 25 '25; Automobile Eng 15:323-8 O '25; Automotive Ind 53:709 O 22 '25
Motor cycle show. il diags Automobile Eng 13: 336-42 N '23; Automotive Ind 49:955-7 N 8 '23
Motor cycle show. il Automobile Eng 14:398-405 D '24

Manufacture

Casting aluminum cycle parts. H. R. Simonds. il Foundry 52:661-4 S 1 '24

Specifications

American motorcycle specifications; tabulation. Automotive Ind 50:451 F 21 '24
American motorcycle specifications; tabulation. Automotive Ind 52:420 F 26 '25
British motorcycle specifications; tabulation. Automotive Ind 50:452-3 F 21 '24
British motorcycle specifications; tabulation. Automotive Ind 52:418-19 F 26 '25

MOTOR fuel. See Automobile engines—Fuel; Gasoline; Liquid fuel; Motor truck engines—Fuel

MOTOR generators. See Electric motor generators

MOTOR omnibuses. See Motor buses

MOTOR ships
After five years service motorship Ambassador makes successful trip of 2500 miles. il Marine R 55:372-3 O '25
Big lake motorship for Henry Ford. J. C. Workman. il diags plan Marine R 54:177-84, 208-11, 277-9 My-Jl '24; Excerpt. Iron Tr R 74:1232-5 My 8 '24
Diesel-driven stern-wheel boat. il diag plan Sci Am 131:31 Jl '24
Diesel engine car ferry the Motor Princess. B. D. Robinson. il Can Eng 48:217-18 F 10 '25
Diesels for over one-third of ships under construction. Power 60:828 N 18 '24
Doppelschrauben-motorschiff Weissenfels. F. Hillebrand and E. Müller. il diags plans Zeit Ver Deutsch Ing 69:1347-52, 1430-3 O 24, N 14 '25
Einschrauben-motorschiffe Sorrento und Amalfi. Hein, Wolfenstetter and Nüsslein. il diags plans Zeit Ver Deutsch Ing 69:1101-8 Ag 22 '25
First Diesel liner on Atlantic; motorship Gripsholm building for Swedish American line. il Marine R 54:95-6 Mr '24
First Japanese passenger motorship. il diags plans Marine Eng 30:204-7 Ap '25
Fruit carrying motorship La Playa; fitted with Camellaird-Fullagar engines. il diags plans Marine Eng 29:20-4 Ja '24
How to select auxiliary power; problems of power and heat as affected by use of Diesel engines. S. Halle. Marine R 54:461-2 D '24
Japanese build fast motorship; the Kurenai Maru. il plans Marine R 55:61-2 F '25
Large motor tankers under construction in Europe. il Marine Eng 29:583-4 O '24
Latest German motor liners have geared drive. il Marine Eng 29:91-2 F '24
Mixed cargo and passenger motorships. il diag plan Marine Eng 29:649-51 N '24
Le moteur Diesel dans la marine marchande; les paquebots à moteurs. O. Quéant. diags Génie Civil 86:576-80 Je 13 '25
Motor cargo ship Primero. il Engineer 140: 293 S 18 '25
Motor liner Aorangi. il Engineer 139:16, 23-4, 42-6, 48, 71, 72-5, 106, 110-12 Ja 2-23 '25; Marine Eng 30:74-8 F '25; Sci Am 132:384 Je '25
Motor passenger liner Aorangi. il Engineer 137:694-5 Je 20 '24; Engineering 117:801 Je 20 '24
Motor passenger liner Aorangi. il Marine Eng 29:470-2 Ag '24
Motor passenger liner Asturias. il Engineering 120:45-6, 48 Jl 10 '25
Motor passenger liners. A. C. Hardy. diags Marine Eng 30:553-8 O '25
Motorship. A. P. Chalkley. Soc Auto Eng J 15:250 S '24
Motorship British Aviator. Engineering 118: 369 S 12 '24
Motorship building in Italy; the Esquilino. il plans Marine Eng 30:493-5 S '25
Motor ship Dolius. Engineer 137:627-8 Je 6 '24
Motor ship Parkeston. diag Engineer 140: 170, 194-5 Ag 14-21 '25
Motorship engineer's problems. A. B. Newell. Marine Eng 29:577 O '24
Motorship has low fuel consumption. Power 58:773 N 13 '23
Motor ship Margretian with Beardmore-Speedwell oil engines. il Engineering 116:791-3, pl 46 D 28 '23
Motor-ship Raby-Castle. il diags Engineering 119:507-9, pl 31-3 Ap 24 '25; Engineer 139: 458-60 Ap 24 '25
Motorship Vinland. il Marine Eng 30:270 My '25
Motor ships and marine oil engines in 1923. il (supp) Engineer 137:7-10 Ja 4 '24
Motor ships and marine oil engines in 1924. il (supp) Engineer 139:4-8 Ja 2 '25
Motor tanker British Aviator. Engineer 138: 586, 594-5 N 21 '24
Motor tug Hustler. il diags plan Marine Eng 29:27-9 Ja '24
New Australian motor liner Duisburg equipped with combined hydraulic-mechanical reduction gear and coupling. E. Foerster. diags Marine Eng 30:615-20 N '25
New Diesel engine tow boat Mahoe. il plans Marine Eng 30:385-8 Jl '25
New Diesel-engined tug has successful trial; Arthur N. Herron. il diags Marine Eng 29: 174-6 Mr '24
New double acting oil engined ships; cargo ship City of Stockholm and the passenger liner Gripsholm. il Marine Eng 30:612-13 N '25
New European motor passenger vessels. il diag plans Marine Eng 29:467-70 Ag '24
New twin screw Danish motorship, Chastine Maersk. il Marine R 53:470 D '23
New York shipbuilding corporation building large motor-driven tank ship for its own account. il plans Marine Eng 30:142-5 Mr '25

MOTOR ships—*Continued*
Die ölmaschinenanlage der 20 600 t-motorschiffe Svealand und Americaland. H. Thorwarth. il diags plans Zeit Ver Deutsch Ing 69:305-10 Mr 7 '25
Le paquebot à moteurs Diesel Aorangi. O. Quéant. il diags plans Génie Civil 86:301-5, pl 3 Mr 28 '25
Passenger and cargo motorship Parkeston. il diags plans Marine Eng 30:496-500 S '25
Passing of the heyday of steam. L: Alexander. il Am Bankers Assn J 16:737-9 My '24
Practical Diesel engineering. L: R. Ford. il diags Marine Eng 29:607-10, 669-73 O-N '24
Rapidly increasing place of the motor ship in world shipbuilding. Econ W n s 28:735-6 N 22 '24
Refrigerated motorships under construction abroad. il plan Marine Eng 30:443-5 Ag '25
Reversible Diesel engine drives stern wheel towboat. il diags Marine Eng 29:241-2 Ap '24
Der see- und bergungsschlepper Seefalke. F. Hillebrand and E. Müller. il diags plans Zeit Ver Deutsch Ing 69:433-8 Ap 4 '25
Ship Vulcan with Diesel-hydraulic drive. il diags Engineering 118:92-4 Jl 18 '24
Silent revolution on the sea. E. S. Gregg. il Nation's Business 13:18-20 F '25
Some recent motor driven cargo ships equipped with Burmeister and Wain four cycle engines. il plans Marine Eng 30:489-92 S '25
Sun-Doxford engines of the Henry Ford II. il diags Marine Eng 29:334-7 Je '24
Suphenco has new Diesel for big output. il Marine R 54:114-16 Mr '24
Three new motor passenger liners completed abroad. il Marine Eng 30:21-3 Ja '25
20,000-ton motor liner ordered by British steamship company. Marine Eng 29:19 Ja '24
Twin screw Diesel tanker is efficient. il Marine R 55:326 S '25
Twin-screw motor liners to have 20,000 horsepower. il diag Marine Eng 30:331-3 Je '25
Twin-screw motor tanker Arnus. il diags Engineer 136:485-7 N 2 '23
Twin-screw motor yacht Sea King. il diags plan (supp) Engineer 137:246-8, 256 Mr 7 '24
Twin screw South Atlantic liner Monte Sarmiento. il plans Marine Eng 30:79-91 F '25
United States must have much better ships than foreigners. A. H. Jansson. il diags Marine R 55:349-56 O '25
Use of the motor ship. Mach 31:199 N '24
Why Diesel ships can make money. il Marine R 55:43-6 F '25

See also Diesel engines, Marine; Gas and oil engines, Marine; Motor boats; Ship propulsion, Electric

Cost of operation

Diesel vs. turbine on Hog Island ships. A. H. Jansson. il plan Marine R 54:119-26 Ap '24
Influence of size on operating expense of motorships. L. B. Chapman. Marine Eng 29: 143-5 Mr '24

Equipment

Big motorship for Henry Ford-V. H. M. Varian. il Marine R 54:365-7 S '24
Choosing auxiliaries for a motorship. il diags Marine R 54:321-4 Ag '24

Manning

Must train men for motorships. A. H. Jansson. Marine R 54:271-6 Jl '24
Practical Diesel engineering; obtaining a license as a motorship engineer. L: R. Ford. Marine Eng 30:509-15 S '25
Will steam engineers man the new motorships? A. B. Newell. Marine Eng 29:515-16 S '24

Operation

Maintenance and care of Diesel engines. O. Olson. Marine Eng 29:169-70 Mr '24

Performance

Trials and operation of the motorship Cubore. A. B. Homer. Marine Eng 29:735-7 D '24

Steamboat conversion

Another victory for oil equipment, the tugboat Cornell. L: S. Treadwell. il diag Sci Am 133:314-15 N '25
Change to Diesel reduces costs. R. Haig. diag Marine R 53:449-52 D '23; Abstract. Marine Eng 28:757-8 D '23
Convert idle vessels to Diesel. W: S. Benson. Marine R 53:457 D '23
Diesel conversion moves on. Marine R 55:178-9 My '25
Diesel engines for shipping board vessels. Bradstreet's 52:397 Je 21 '24
Diesel vs. turbine on Hog Island ships. A. H. Jansson. il plan Marine R 54:119-26 Ap '24
Economy of steam winches on converted motorships. A. B. Newell. Marine Eng 30: 177-8 Mr '25
Machinery of the converted motorship Challenger. il diags plan Marine Eng 29:155-8 Mr '24
Performance of the motorship Seekonk. il diag plan Marine Eng 29:24-6 Ja '24
Problems in connection with conversion of the Hog Island steamer Seekonk to a motorship. J. C. Shaw. Marine Eng 29:737-9 D '24
Shipping board issues specifications for construction of Diesel engines. diags Marine Eng 29:626-7 O '24
Shipping board selects 12 vessels for conversion. H. F. Lane. Marine Eng 29:419-20 Jl '24
Steamship conversion begins in Europe. il Marine Eng 30:273-4 My '25
U.S. Diesel conversion keeps going. Marine R 55:329 S '25

Testing

Scott-Still motor ship Dolius. il plans Engineer 137:384-5 Ap 11 '24; Engineering 117: 459-60 Ap 11 '24
Second report of the Marine oil engine trials committee. Engineering 119:397-402, 434-6 Mr 27-Ap 3 '25; Engineer 139:346-9 Mr 27 '25; Discussion. Engineering 119:391-2, 445-6, 485-7 Mr 27, Ap 10-17 '25; Engineer 139:403 Ap 10 '25
Trials of the motor ship Sycamore; report of marine oil engine trials committee. Engineer 138:618-20 N 28 '24; Engineering 118: 750-3, 784-6 N 28-D 5 '24; Discussion. 118: 730-2, 798-9; 119:70 N 28, D 12 '24, Ja 16 '25

MOTOR stores. See Traveling stores

MOTOR transport congress, World. See World motor transport congress

MOTOR truck drivers
Getting safety across to the commercial driver. il Nat Safety N 12:53-62+ O '25
How to pick motor truck drivers. P. L. Sniffin. Eng & Contr (Ry) 60:1094 N 21 '23
Truck drivers and chauffeurs, Chicago; agreement. Monthly Labor R 20:1276-7 Je '25

MOTOR truck engines
Diesel engine adapted to trucks and tractors. B. R. Dierfeld. il diags Automotive Ind 53:730-3 O 29 '25
Diesel engine used in new Benz truck. il Automotive Ind 50:574 Mr 6 '24

See also Automobile engines

Design

German bevel-gear drive truck uses pressed steel parts extensively. B. R. Dierfeld. diags Automotive Ind 51:1007-10 D 11 '24

Fuel

Les camions à gazogène. G. Koenigs. Génie Civil 86:95-6 Ja 24 '25
Producer gas as motor-truck fuel; abstract. E. Weiss. diag Mech Eng 46:902 D '24
La production du charbon de bois pour les automobiles à gazogène. P. Razous. diags Génie Civil 86:607-11, 628-32 Je 20-27 '25

Lubrication

Engine-oil consumption and dilution. N. MacCoull. il charts Soc Auto Eng J 15:93-100 Jl '24; Abstract. Automotive Ind 50:1363-5 Je 26 '24

MOTOR truck engines—*Continued*

Specifications

American stock engine specifications. Automotive Ind 50:442-5; 52:408-11 F 21 '24, F 26 '25

Testing

Engine-oil consumption and dilution. N. MacCoull. il charts Soc Auto Eng J 15:93-100 Jl '24; Abstract. Automotive Ind 50:1363-5 Jl 26 '24

MOTOR truck industries, inc.

Annual meeting, Detroit, Nov. 21. Automotive Ind 49:1097-8 N 29 '23

MOTOR truck industry and trade

Concealed and fictitious list prices menace to truck industry. J. R. Spraker. Automotive Ind 52:912 My 21 '25

Fictitious list prices—what they may do to truck sales. E. B. Neil. Automotive Ind 52: 727-8 Ap 23 '25

How engineers can help truck sales managers increase business. E. B. Neil. Automotive Ind 50:510-11 F 28 '24

Keen competition chiefly responsible for truck industry ills. J. Dalton. Automotive Ind 50: 116-18 Ja 17 '24

Motor truck convention of the National automobile chamber of commerce, Jan. 5. Automotive Ind 52:117-18 Ja 15 '25

Passenger car experience of limited value in making truck sales. W. L. Carver. Automotive Ind 51:293-4 Ag 7 '24

Relation of the automotive manufacturer to motor transport. D: Beecroft. Soc Auto Eng J 13:516-17 D '23

Relation of the vehicle builder to motor transport. D: Beecroft. Soc Auto Eng J 14: 522-5; Discussion. 525-6+ My '24

Selling motor trucks in the South; the demand and how to meet it. H. F. Podhaski. il Automotive Ind 53:13-15 Jl 2 '25

Small truck makers seek means to provide practical aid to dealers. Automotive Ind 50: 855 Ap 17 '24

This plan harvests two sales where one grew before; Republic motor truck company's contract with customers. W. P. Hanson. Ptr Ink 130:121-2+ Ja 22 '25

Why Autocar believes in concentrating sales and advertising. W: A. McGarry. Ptr Ink 126:8+ Ja 10 '24

See also Automobile industry and trade; Electric truck industry; *also* Mack trucks, incorporated; White, Walter C.

Advertising

How autocar uses advertising to sell used trucks. R. F. Wood. Ptr Ink 125:142-3 D 6 '23

Service

Utilizing motor-truck service-records. S. V. Norton. il map Soc Auto Eng J 16:372-8 Mr '25

Statistics

Cars and trucks in use totaled 17,740,236 on Dec. 31, 1924. D. G. O'Connor. Automotive Ind 52:93-5 Ja 15 '25

Cars selling for less than $1,000, 81.6 per cent of 1923 output. R. B. Prescott. Automotive Ind 50:371-7 F 21 '24

18,241,477 cars and trucks in use throughout the world. map Automotive Ind 50:382-7 F 21 '24

Higher priced cars hold up well in 1924 production. Automotive Ind 52:336-42 F 26 '25

3,634,272 motor vehicles are in use outside United States; world total now is 31,360,779. map Automotive Ind 52:343-7 F 26 '25

Used trucks

How autocar uses advertising to sell used trucks. R. F. Wood. Ptr Ink 125:142-3 D 6 '23

Germany

German motor truck and chassis exports; tabulation. Automotive Ind 50:475 F 21 '24

Truck transportation growing rapidly in Germany. A. Sommer. Automotive Ind 50:627-8 Mr 13 '24

United States

American truck exports from 1918 to 1923; tabulation. Automotive Ind 50:468-9 F 21 '24

American truck exports from 1922 to 1924. Automotive Ind 52:428-9 F 26 '25

Automotive exports for the first quarter of 1925; tabulation. Automotive Ind 52:953 My 28 '25

Car and truck exports totaled nearly 400,000 during the year 1924. G: E. Quisenberry. Automotive Ind 52:425 F 26 '25

Export parts sales likely to break record in next six months. G: E. Quisenberry. Automotive Ind 51:411-14 Ag 28 '24

Exports of cars, trucks and tires for September, 1924. Automotive Ind 51:898-9 N 20 '24

Final registration figures show 15,222,658 cars and trucks in United States. Automotive Ind 50:387-91 F 21 '24

Motor vehicle registration 15,092,177. A. P. Anderson. Pub Roads 5:14-17 Ap '24

Motor vehicle registration shows total of 15,092,177. Eng N 92:590-1 Ap 3 '24

Registrations totaled 15,523,898 on July 1, 1924. D. G. O'Connor. Automotive Ind 51:139-43 Jl 17 '24

17,726,507 motor vehicles in country, final figures show. D. G. O'Connor. Automotive Ind 52:348-52 F 26 '25

Volume of 1923 truck production cause for optimism. J. Dalton. Automotive Ind 49:1162-4 D 6 '23

MOTOR truck trailers

Details of the H.I.C. motor transport trailer. il diags plan Engineering 117:178, 186 F 8 '24

Rubber-tired trailer, capacity 25 tons, used by power company. il Eng N 94:533 Mr 26 '25

Trailers and demountable bodies for motor transportation. H. W. Howard. il diags Soc Auto Eng J 15:324-8 O '24; Discussion. 16: 313-15 Mr '25

MOTOR trucks

Acme adds one-ton flyer to truck line. il Automotive Ind 52:569 Mr 26 '25

British Crossley motors, ltd., designs truck for high speeds with solid tires. M. W. Bourdon. il Automotive Ind 52:584-5 Mr 26 '25

Cab arrangement a feature of new Republic 3-tonner. il Automotive Ind 52:816-17 My 7 '25

Chevrolet radiator and headlights changed; truck redesigned. il Automotive Ind 53:265-6 Ag 13 '25

Do your trucks live up to their jobs? P. L. Sniffen. il Bldg Age 46:92-3 Ag '24

Eight-wheel motor truck develops from eight-wheel bus. il Management & Adm 7:662 Je '24

England's largest car manufacturer introduces one-ton truck; the new Morris. diags Automotive Ind 50:522-3 F 28 '24

Federal adds 2-ton Knight-engined truck priced at $1,650. il Automotive Ind 53:306 Ag 20 '25

Four models in new line of two-ton trucks brought out by the Gramm-Bernstein truck corp., Lima, Ohio. il Automotive Ind 51:253 Jl 31 '24

Graham brothers introduce one-ton truck and two new bus chassis. D. Blanchard. il Automotive Ind 51:772-3 O 30 '24

Gramm-Kincaid trucks made in three wheelbases. Automotive Ind 53:10 Jl 2 '25

Hauling heavy apparatus. A. N. Cartwright. il diag Elec J 22:222-4 My '25

Larger loads, fewer trips. C. G. Charles. il Factory 33:799 D '24

Lastkraftwagenbau in Deutschland. E. Aders. il diags Zeit Ver Deutsch Ing 69:457-63, 589-94 Ap 11, My 2 '25

Loading and unloading bulk materials to and from motor vehicles. il Cassier's Ind Management 11:215-17, 246-9, 277-9 Ap 17-My 15 '24

L.G.O. subsidiary adds two-ton truck to present line. M. W. Bourdon. il diags Automotive Ind 50:550-3 Mr 6 '24

MOTOR trucks—*Continued*

Low body auto truck for handling material. il Management & Adm 9:46 Ja '25

Major units of new Indiana 4-5-ton truck easily detachable. H. Chase. il diags Automotive Ind 52:496-8 Mr 12 '25

Maxwell truck chassis supplied for Martin-Parry bodies. il Automotive Ind 51:771 O 30 '24

Model B 3-ton truck of the Four wheel drive auto co. of Clintonville, Wis. Automotive Ind 51:819 N 6 '24

Moreland new type of high speed six-wheel truck. il Automotive Ind 52:987 Je 4 '25

Motor lorry in transportation. T. R. Dahl. il Am Exporter 95:81+ Ag '24

Motor transport of goods. J. A. Dunnage. bibliog il Cassier's Ind Management 12:105-10 Ja '25

Motor-transport progressiveness. Soc Auto Eng J 15:281-3 O '24

Motor truck; applied mechanics for owners and drivers. E: E. La Schum. 325p U.P.C. book co. '24

New British six-wheeler has separate suspension for rear end. il Automotive Ind 49:1209-10 D 13 '23

New G.M.C. trucks have four-wheel brakes as standard equipment. W. L. Carver. il Automotive Ind 52:610-13 Ap 2 '25

New I.H.C. truck has marked changes in engine and steering gear. il diags Automotive Ind 49:1058-60 N 22 '23

New 2½-ton Bessemer truck is designed for heavy duty. Automotive Ind 49:1165 D 6 '23

Progress of the British commercial vehicle. il Cassier's Ind Management 12:194+ Mr '25

Recent developments in motor lorries. G: W. Sutton, jr. il Am Exporter 94:7-11+ My '24

Rehberger five-ton truck wheelbase can be varied to meet service requirements. il diags Automotive Ind 51:803-4 N 6 '24

Reo enters the two-ton truck field. il Automotive Ind 52:1025 Je 11 '25

Republic strengthens frames of all trucks and makes other improvements. il Automotive Ind 50:1125 My 22 '24

Saurer 6½-ton truck has bevel gear single reduction drive. P. M. Heldt. il diags Automotive Ind 49:1312-19 D 27 '23

Standardization of bolt and bushing sizes feature of Kelly-Springfield line. il Automotive Ind 51:146-7 Jl 17 '24

Stewart adds two six-cylinder speed trucks. il Automotive Ind 53:710 O 22 '25

Stewart brings out a new 1½ ton speed truck. Automotive Ind 50:1137 My 22 '24

Trucks, truck bodies, and transportation. M: W. Potts. il Ind Management 67:151-60 Mr '24

United motors products co. two new speed trucks. il Automotive Ind 51:818 N 6 '24

Vulcan two-ton lorry chassis. il Engineering 119:432-4 Ap 3 '25; Engineer 139:378-9 Ap 3 '25

When does a motor truck become obsolete? F. W. Davis. Soc Auto Eng J 15:516-20 D '24; Discussion. 15:289-90; 16:601-3 O '24. Je '25

See also Advertising mediums—Motor trucks; Automobiles; Electric trucks; Loading and unloading—Motor trucks; Motor truck drivers; Motor truck engines; Motor truck industry and trade; Motor truck trailers; Motor vehicles—Caterpillar type; Tank trucks; Tires, Motor truck; Tractors; Traveling stores

Axles

American stock rear and front axle specifications; tabulation. Automotive Ind 50:448-50 F 21 '24

American stock rear axle specifications; tabulation. Automotive Ind 52:412-13 F 26 '25

Building the housings for the Sheldon truck axle. F. H. Colvin. il Am Mach 59:715-18 N 15 '23

How front axles for trucks are made. il diags Am Mach 62:472-3 Mr 19 '25

Huck double reduction rear axle. il diags Automobile Eng 15:147-8 My '25

Machining a worm drive carrier. F. H. Colvin. Am Mach 60:45-7 Ja 10 '24

Machining Sheldon truck axles. F. H. Colvin. il Am Mach 60:275-7 F 21 '24

New Timken axle designed for small buses and 1½ ton truck chassis. diag Automotive Ind 53:468 S 17 '25

Outstanding tendencies in axle design. W. F. Rockwell. diags Soc Auto Eng J 15:189-94 S '24

Bibliography

Catalogue of pamphlets and material on motor truck and motor bus transportation. 3d ed. 7p National automobile chamber of commerce, 366 Madison av., New York

Bodies

Diminishing costs with demountable bodies. P. White. System 45:112-13 Ja '24

Trailers and demountable bodies for motor transportation. H. W. Howard. il diags Soc Auto Eng J 15:324-8 O '24; Discussion. 16: 313-15 Mr '25

Brakes

See Brakes, Motor truck

Care

Breaking in a truck. F. A. Whitten. Eng & Contr (R & S) 62:746 O 1 '24

Chassis

Fisher fast freight; new commercial chassis adapted for either truck or bus body. il Automotive Ind 52:149 Ja 22 '25

Frames division report. Soc Auto Eng J 14:40 Ja '24

Standard frame-widths suggested. Soc Auto Eng J 13:503 D '23

Cleaning

We clean a truck chassis in ten minutes. F. C. Chaffer. Factory 35:104 Jl '25

Clutches

American stock clutch specifications; tabulation. Automotive Ind 50:446-7 F 21 '24

American stock clutch specifications; tabulation. Automotive Ind 52:416-17 F 26 '25

Cost of operation

Analysis of costs for 10 years of fleet operation. R. E. Plimpton. Soc Auto Eng J 14: 539-44 My '24; Discussion. 15:206-10 S '24

Cost data of truck haulage. Eng & Min J 119: 656 Ap 18 '25

Coût des transports par camions automobiles dans les travaux publics. A. Mettler. Soc Ing Civils Bul 76:1138-44 O '23

Economics of highway engineering. H. T. Tudsbery. Engineering 120:287-8 S 4 '25; Discussion. 120:318-19 S 11 '25

Gas trucks in central-station service. il Elec W 83:721-4 Ap 12 '24

Motor vehicle operation. B. H. Piepmeier. Eng & Contr (R & S) 64:799-800 O 7 '25

Performance data of highway service automobile equipment. E. S. Austin. Eng N 92: 86 Ja 10 '24

Road transport in England; costs for operating fleet of over one hundred motor trucks. J. A. Hunter. Textile World 68: 2799 N 7 '25

Theory and calculation of highway transportation cost. T. R. Agg. Eng N 92:54-8 Ja 10 '24; Discussion. G. F. Schlesinger. 92: 336 F 21 '24

Transportation of milk by motor truck. H: R. Trumbower. il maps Pub Roads 5:1-18 Jl '24

When should motor trucks be retired. F. J. Scarr. Eng & Contr (R & S) 60:1198-1204 D 5 '23

See also Electric trucks—Cost of operation

Design

American truck design progress shown by analysis of trends. Automotive Ind 50:424-6 F 21 '24

MOTOR trucks—Design—*Continued*
German bevel-gear drive truck uses pressed steel parts extensively. B. R. Dierfeld. diags Automotive Ind 51:1007-10 D 11 '24
New Q.M.C. trucks drive on four or six wheels. H. Chase. il diags plan Automotive Ind 51: 271-5 Ag 7 '24; Abstract. Mech Eng 46:706-7 N '24
Observations of a motor vehicle superintendent. J. F. Winchester. Automotive Ind 50: 916-17 Ap 24 '24
Six-wheelers hold attention of British truck builders. Automotive Ind 50:433 F 21 '24
Special design features are incorporated in Federal light delivery truck. diags Automotive Ind 50:816-18 Ap 10 '24

Electric equipment

See Motor trucks—Lighting

Engines

See Motor truck engines

Exhibitions

Commercial motor transport exhibition at Olympia. il diags Engineering 116:660-2, 690-6, 705-11, pl 40 N 23-D 7 '23; Engineer 136: 580-2, 608, 609-13 N 30-D 7 '23; Automobile Eng 13:401-8 D '23
Commercial motor transport exhibition, 7th international, Olympia, Oct. 29-Nov. 7. il diags Engineer 140:457-60 O 30 '25
Commercial vehicle section of the Paris salon. Engineering 116:611-12 N 16 '23
Le XVIII[e] salon de l'automobile; section des véhicules industriels (24 octobre-2 novembre 1923). G. Delanghe. il diags Génie Civil 83: 473-85 N 17 '23
Le XIX[e] salon de l'automobile; section des véhicules industriels (22-31 octobre 1924). G. Delanghe. il diags Génie Civil 85:475-80 N 22 '24
Eight new speed trucks are shown at British exhibit. M. W. Bourdon. il Automotive Ind 49:1240-2 D 20 '23

Fuel

See Motor truck engines—Fuel

Gearing

American stock gearset specifications; tabulation. Automotive Ind 50:441 F 21 '24
Machining the transmission case of the Mack truck and bus. F. W. Curtis. il diags Am Mach 63:729-33, 765-8 N 5-12 '25
New Brown-Lipe maximum transmission used in standard truck. il diags Automotive Ind 50:753 Ap 3 '24
New truck travels forward or backward at equal speeds. il diag Automotive Ind 51:852-3 N 13 '24

Laws and regulations

Motor-truck legislation; new Massachusetts regulations. W: F. Williams. Soc Auto Eng J 16:7-8 Ja '25
Motor vehicles fare well in 1924 state legislation. N. G. Shidle. Automotive Ind 50: 1007-10 My 8 '24

Lighting

Self-contained magneto generator designed for truck and tractor lighting. diags Automotive Ind 51:529-30 S 18 '24

Load

Connecticut highway transportation survey. J. G. McKay. il maps Pub Roads 5:1-18 Mr '24; Same. Good Roads 66:125-9, 161-4+ My-Je '24

Management

Business use of automobiles and trucks. Published in monthly numbers of System
Care and operation of automotive equipment. E. C. Wood. Gas Age 56:429-30+ S 26 '25
Care and operation of motor trucks. F. A. Whitten. Brick & Clay Rec 67:199, 272, 343, 418, 485, 800, 947 Ag 4-S 29, N 24, D 22 '25
Commercialized motor-truck haulage. J. A. Hoffman and W. F. Banks. il Soc Auto Eng J 16:62-71; Discussion. 71-2 Ja '25
Daily mileage reports as gasoline savers on truck operation. F. A. Whitten. Eng & Contr (R & S) 62:493 S 3 '24
Economics of motor transportation. G: W. Grupp. 414p Appleton '24
Five rules we have used to lower truck costs. W: L. Conner. il System 47:318-19+ Mr '25
Getting the maximum return from transportation equipment. J. H. Macbeth. Elec W 86: 124-5 Jl 18 '25
How to put highway transport on profitable basis; organizing a subsidiary transportation company. G: H. Pride. Forbes 16:30 Ap 15 '25
How we cut the cost of short-haul trucking. J. R. Kennedy. System 47:790+ Je '25
How we obtained trebled service from our trucks. J. M. Annenberg. il System 46:429-31+ O '24
Maintenance of commercial vehicle fleets. E. G. Beaumont. Engineering 118:712-13 N 21 '24
Making motor trucks pay better. Published in monthly numbers of Factory for 1924
Observations of a superintendent of motor-truck fleet-operation. J. F. Winchester. il diag Soc Auto Eng J 14:496-503 My '24; Discussion. 14:481-2; 15:567-79; 16:534-7 My, D '24, My '25
On every truck-mile we save seven cents. C. J. Smith. il System 45:782-3+ Je '24
Operating schedule for trucks cuts cost of making deliveries. Nat Pet N 17:91 S 16 '25
Six ways to cut operating expense. A. B. Tilt. System 47:72+ Ja '25
Truck thrift tips that work. P. L. Sniffin. il Pet Age 13:76-7+ Mr 1 '24
What 15 years' experience has taught us about fleet operation. H. N. Gantzel. System 47:646+ My '25
When should motor trucks be retired. F. J. Scarr. Eng & Contr (R & S) 60:1198-1204 D 5 '23
Why does the big chief ignore highway transportation? G: H. Pride. Forbes 15:695-6 Mr 1 '25
Why our truck costs are low. H. W. Hawkins. System 47:508+ Ap '25
Why we know our costs almost to the minute. G: Heron. System 46:758+ D '24

Manufacture

Finding the right equipment for each job. R. M. Hidey. il Factory 35:369-71 S '25
Planning and building a large motor vehicle plant. E. M. Chance. il diags Eng N 94:344-9 F 26 '25

Performance

Truck performance on grades. W. E. Lay. Nat Research Council Bul v 8, pt 1:38-42 Mr '24

Prices

Gasoline cars and trucks of 1924. Sci Am 130: 42-4 Ja '24
Scientific American annual automobile guide; tabulation. Sci Am 132:69-71 Ja '25

Records

Cost barometer lowers our truck costs. C: C. Elliott. System 48:204+ Ag '25

Repair

Caring for a gas co's motor trucks. C: W. Geiger. il Am Gas J 122:140+ F 14 '25
Relation of the vehicle builder to motor transport. D: Beecroft. Soc Auto Eng J 14:522-5; Discussion. 525-6+ My '24
Shall we maintain private repair service? F. Strauch. System 46:184+ Ag '24

Specifications

American gasoline truck chassis specifications; tabulation. Automotive Ind 52:389-95 F 26 '25
American gasoline truck specifications; tabulation. Automotive Ind 50:427-32 F 21 '24
British gasoline truck chassis specifications; tabulation. Automotive Ind 50:434-5 F 21 '24

MOTOR trucks—Specifications—*Continued*
British gasoline truck chassis specifications; tabulation. Automotive Ind 52:401-2 F 26 '25
Continental gasoline truck chassis specifications; tabulation. Automotive Ind 50:436-9 F 21 '24
Continental gasoline truck chassis specifications; tabulation. Automotive Ind 52:398-401 F 26 '25
War office specification for subsidy light lorries. Engineering 118:136-7 Jl 25 '24

Speed control

Characteristics of the internal-combustion-engine governor. E: F. Lowe. Soc Auto Eng J 17:268-70; Discussion. 270-2 S '25

Springs

S. A. E. springs division report; leaf springs. Soc Auto Eng J 14:639-40 Je '24
Springs for emergency trucks. il diags Elec Ry J 64:547-8 O 4 '24

Steering gear

American stock steering gear specifications; tabulation. Automotive Ind 50:444-5 F 21 '24
American stock steering gear specifications; tabulation. Automotive Ind 52:396 F 26 '25

Taxation

Commercial vehicles on free highways. T. H. MacDonald. J Land & Pub Util Econ 1:385-97 O '25; Abstract. Bus Transportation 4: 606 D '25

Testing

Modern methods of truck testing. W. L. Day. il Management & Adm 8:285-7 S '24

Tires

See Tires, Motor truck

Wheels

Greater loads may lead to more wheels. il Bus Transportation 4:39-40 Ja '25
Keep truck wheels lined and stop the wiggle. A. H. Leipert. il Coal Age 26:594 O 23 '24
Laboratory strength-tests of motor-truck wheels. T. W. Greene. il charts Soc Auto Eng J 15:150-5+ Ag '24
Multi-wheel vehicles, their advantages and disadvantages. A. W. S. Herrington. Soc Auto Eng J 16:15 Ja '25; Abstract. Automotive Ind 51:1093-4 D 25 '24; Discussion. Soc Auto Eng J 16:16 Ja '25
Six-wheel truck and the pavement. L. W. Teller. il diags plan Pub Roads 6:165-8+ O '25; Same abr. Pub Works 56:400-3 N '25
Six-wheel truck construction and operation. E. Favary. il diags Soc Auto Eng J 16:427-32 Ap '25

See also Tires, Motor truck

MOTOR trucks, Armored. See Armored vehicles (delivery service)

MOTOR trucks, Industrial
How the tiering truck has earned its way. M: W. Potts. il Ind Management 70:230-4 O '25
Measuring the efficiency of shop trucks. S. M. Lowry. Management & Adm 8:279-84 S '24

See also Tractors, Industrial

Lubrication

Essentials of industrial truck and tractor lubrication. A. F. Brewer. il diag Ind Management 70:306-12 N '25

MOTOR trucks, Military
Army truck engineering progresses. A. W. S. Herrington. Soc Auto Eng J 15:367-8 N '24

See also Motor trucks in war and army service

MOTOR trucks, Steam
Atkinson six-ton steam wagon. il diags Automobile Eng 14:352-61 N '24; Abstract. Mech Eng 47:129 F '25
Commercial motor transport exhibition at Olympia. il diags Engineering 116:693-6, 705-11, pl 41 N 30-D 7 '23; Engineer 136:608-13 D 7 '23
Fowler steam wagon. il diags Engineering 118:855-6 D 26 '24
Sentinel steam wagon. il Cassier's Ind Management 11:51-3 Ja 24 '24
Sentinel steam wagon works. il diag Engineer 137:280-2, 284 Mr 14 '24
Steam wagon transport. Engineer 139:704 Je 26 '25

MOTOR trucks and roads
Accelerated wear tests of concrete pavements. F. H. Jackson and J. T. Pauls. il Am Soc T M Pro 24 pt 2:864-96 '24; Same. Pub Roads 5:1-19 My '24; Same. Eng & Contr (R & S) 62:302-13 Ag 6 '24; Excerpts. Eng N 92:984-5 Je 5 '24; Concrete 25:30-1 Jl '24; Conclusions. Pub Works 55:194-6 Je '24; Discussion. Am Soc T M Pro 24 pt 2:897-900 '24
Accurate accelerometers developed by the Bureau of public roads. L. W. Teller. il diags Pub Roads 5:1-9 D '24
Commercial vehicles on free highways. T. H. MacDonald. J Land & Pub Util Econ 1:385-97 O '25; Abstract. Bus Transportation 4: 606 D '25
Impact tests on concrete pavement slabs. L. W. Teller. il Pub Roads 5:1-14 Ap '24
Investigation of motor-truck impact. C. A. Hogentogler. Soc Auto Eng J 16:21-2 Ja '25
Moments and shear produced by one side of 15- and 20-ton trucks. Eng N 94:407 Mr 5 '25
Present status of the truck tire tests of the Bureau of public roads. E. B. Smith. Pub Roads 6:129-30 Ag '25; Same. Munic & Co Eng 69:162-4 S '25
Six-wheel truck and the pavement. L. W. Teller. il diags plan Pub Roads 6:165-8+ O '25; Same abr. Pub Works 56:400-3 N '25
Six-wheel truck construction and operation. E. Favary. il diags Soc Auto Eng J 16:427-32 Ap '25
Status of the motor truck impact tests of the Bureau of public roads. C. A. Hogentogler. il Pub Roads 5:11-14 N '24; Same. Eng & Contr (R & S) 63:54-8 Ja 7 '25
Tire and truck impact tests. Soc Auto Eng J 17:35-6 Jl '25
Transverse distribution of motor vehicle traffic on paved highways. J. T. Pauls. il diags Pub Roads 6:1-13 Mr '25
Truck tires and highway wear. J. C. Sproull. Munic & Co Eng 67:319-20 D '24
Trunk-highway motor-traffic. W: G. Sloan. il maps Soc Auto Eng J 15:238-45; Discussion. 245-50 S '24
Use of highways by motor trucks. J. B. Wait. Munic & Co Eng 68:87-90 F '25

See also Automobiles and roads; Road traffic; Tires, Motor truck

MOTOR trucks in construction work
Automotive and labor saving equipment in telephone work. T. C. Smith. il W Soc E J 28:543-57 D '23
Coût des transports par camions automobiles dans les travaux publics. A. Mettler. Soc Ing Civils Bul 76:1138-44 O '23
Gasoline equipment used in long narrow tunnel. W. C. Hogoboom. il Eng & Contr (W W) 63:1072-3 My 13 '25
Truck equipped for track work. G: F. Paul. il Eng & Contr (Ry) 63:355 F 18 '25
Trucks have separate compartments for sand and aggregate. il Eng N 95:277 Ag 13 '25
Tunnel hauling with Ford trucks. Pub Works 56:80 Mr '25

MOTOR trucks in freight service
B. & M. transportation company. Ry Age 78: 1378-9 Je 6 '25
Commercialized motor-truck haulage. J. A. Hoffman and W. F. Banks. il Soc Auto Eng J 16:62-71; Discussion. 71-2 Ja '25
Commodity transportation by motor truck. J. G. McKay. Pub Roads 6:124-6 Ag '25; Abstract. Ry Age 78:1467-9 Je 13 '25
Connecticut highway transportation survey. J. G. McKay. il maps Pub Roads 5:1-18 Mr '24; Same. Good Roads 66:125-9, 161-4+ My-Je '24; Excerpt. Eng & Contr (R & S) 61: 749-50 Ap 2 '24; Abstract. Pub Works 55: 105-8 Ap '24

MOTOR trucks in freight service—*Continued*
Container units in motor truck freight service. il Ry R 74:656-8 Ap 5 '24
Coordination of railroad and motor-truck transportation. R. C. Wright. Soc Auto Eng J 14:302-4 Mr '24
Delivering less-than-carload freight by motor truck. R. D. Sangster. Soc Auto Eng J 14:415-21 Ap '24; Discussion. 14:617-22 Je '24
Development of motor vehicle in U.S. Eng & Contr (R & S) 64:325-6 Ag 5 '25
Economic position of motor transport. il diags plan Sci Am 130:10-12+ Ja '24
Economics of transportation. R. A. C. Henry. Can Eng 49:479-80; Discussion. J. L. Busfield. 480-2 O 20 '25
Electric railways should operate trucks. F. W. Watts. Elec Ry J 63:183-4 F 2 '24
Freight car yields to the truck. R. C. Wright. il Nation's Business 12:40-1 My '24
Function of the motor truck in reducing cost and preventing congestion of freight in railroad terminals. T. C. Powell. Ann Am Acad 116:87-9 N '24
Highway transport, an aid to the railroads. A. H. Blanchard. Munic Eng 65:205-9 N '23; Same abr. Eng & Contr (Ry) 60:1082-5 N 21 '23
Inland fleets. R. Brennan. il Dun's Int R 43: 36-40+ Ag '24
Interstate commerce commission defines its authority over motor trucks. Ry R 75:285-6 Ag 23 '24
Lehigh Valley effects economies by motor trucks. Ry R 76:185-6 Ja 24 '25
Less-than-carload freight; how St Louis utilizes motor trucks. Soc Auto Eng J 14: 247-8 F '24
Linking up railroad and water transportation. D. W. Hyde, jr. Ann Am Acad 116:25-31 N '24
Motor transport outside of railway terminal area. Eng & Contr (Ry) 62:1343-6 D 17 '24
Motor truck as a factor in the transportation system. Comm M 6:3-13 N '24
Motor truck as an ally of the railroads. R. C. Morse. Ry R 76:1116-17 Je 13 '25; Abstract. Eng & Contr (G C) 63:1356 Je 17 '25
Motor truck transportation in New England. J. G. McKay. Eng N 91:886 N 29 '23
Motor trucks as railroad aid. J. F. Fowler, jr. Am Ind 25:23+ Ap '25
Motor trucks auxiliary to L.C.L. service. Ry R 74:218-19+ F 2 '24
Motor vehicles have become allies of rail and water carriers. H: W. Thornton. Automotive Ind 50:1220-2 Je 5 '24
New juggernaut of transportation. J: F. Fennelly. Comm & Fin 14:1914-15 S 30 '25
New York Central's use of trucks and unit containers. G. C. Woodruff. Munic & Co Eng 68:256-9 My '25
Organized motor transportation in railroad terminals. R. Johnson. Eng & Contr (Ry) 62:164-6 Jl 16 '24
Pennsy pioneering in truck and rail coordination. W: A. McGarry. il Forbes 15:404-6 Ja 1 '25
Pennsylvania installs 204 miles of motor truck service during 1923. R. S. Hurd. il Ry Age 76:319-21 F 2 '24
Proposed British motor highway to parallel three trunk lines. map Ry R 74:207-8 F 2 '24
Public and highway transportation. W. M. Jardine. Munic & Co Eng 68:284-8 Je '25; Same cond. Good Roads 68:181-4 Ag '25; Excerpts. Econ W n s 29:796-7 Je 6 '25; Ry Age 78:1469-70 Je 13 '25; Abstract. Pub Works 56:227 Je '25
Putting moving day on a railroad schedule. W. E. Sweeting. il Forbes 13:699-700+ Mr 15 '24
Rail and motor transportation. Index p 10-11 Mr '25
Railroad and the motor truck join forces. J. G. Condon. Ptr Ink 132:33-4+ Jl 2 '25
Railroad use of motor trucks. Munic & Co Eng 68:21-2 Ja '25
Railroad's relation to motor trucks. G. C. Woodruff. Ry Age 77:1070 D 13 '24
Relative advantages of transport by road and rail, with special reference to the future; discussion. Engineering 117:234-6 F 22 '24
Results of traffic surveys. J. G. McKay. Eng & Contr (R & S) 62:26-30 Jl 2 '24; Same cond., with diags and maps. Eng N 92:526-30 Mr 27 '24
Should short-haul freight pay its own way? A. J. Brosseau. Munic & Co Eng 69:159-60 S '25
Small-consignment commodity-distribution in London and its environs. J. Paterson. chart maps Soc Auto Eng J 15:352-8 O '24; Discussion. 16:326-9 Mr '25
Solving the city terminal problem. W. H. Lyford. Munic & Co Eng 68:305-15 Je '25
Task of selling shippers coordinated transportation is under way. J. Dalton. Automotive Ind 50:189-91 Ja 24 '24
Traffic surveys reveal efficiency of truck haulage. H: S. Trumbower. Automotive Ind 49: 1301-3 D 27 '23
Transport conference discusses railroad problems. G: E. Boyd. Ry R 76:967-8 My 30 '25
Transport experts approve proposals of automotive industry. N. G. Shidle. Automotive Ind 50:132-5 Ja 17 '24
Transportation of hogs by motor trucks. E. L. Browne. il map Pub Roads 5:20-2 Ag '24
Transportation of milk by motor truck. H: R. Trumbower. il maps Pub Roads 5:1-18 Jl '24
Transportation of milk by motor truck in the Chicago dairy district. E. L. Browne. il maps Pub Roads 6:107-15 Jl '25; Same cond. Good Roads 68:211-15 S '25
Trolley and truck; how the Detroit United railway is coordinating motor truck and electric railway freight service. A. D. B. Van Zandt. Aera 12:905-10 Ja '24
Truck a help. M. L. Bell. Ry Age 78:1407-8 Je 6 '25
Truck use approved by New York Central. Automotive Ind 50:899 Ap 17 '24
Trucks and buses solve transport problems. Automotive Ind 50:235-6 Ja 31 '24
Trucks used by railway for local freight haulage. F. W. Watts. il Elec Ry J 64:771 N 1 '24
Trunk highway motor transport. W. G. Sloan. Automotive Ind 50:672-3 Mr 20 '24
U.S. Chamber of commerce report on railway and motor transport. il Aera 12:757-72 D '23; Same cond. Automotive Ind 49:983-93 N 15 '23; Excerpts. Elec Ry J 62:903-5 N 24 '23; Excerpts. Eng & Contr (Ry) 60:1085-7 N 21 '23; Excerpts. Ry Age 75:965-6 N 24 '23; Excerpts. Ry R 73:757-8, 767-9 N 24 '23; Abstract. Munic Eng 65:195-6 N '23
Use of motor truck in milk transportation is increasing. Dun's Int R 44:53-4 D '24
Why the motor truck is successful as a railroad ally. G. C. Woodruff. Munic & Co Eng 69:91-4 Ag '25; Abstract. Ry Age 78:1409-10 Je 6 '25

See also Highway transportation; Railroads—Motor vehicle competition; Tank trucks

MOTOR trucks in war and army service
Mobile ordnance repair shops. C. C. Williams. Am Mach 63:273-4 Ag 13 '25

MOTOR trucks on rails
Traction on rails by internal-combustion engines. E. Brillié. il diags Engineering 119: 491-3 Ap 17 '25

MOTOR trucks on the farm
Automobile and American agriculture. J: M. McKee. Ann Am Acad 116:12-17 N '24
Data on farmers' experiences with trucks. Eng & Contr (R & S) 62:755 O 1 '24
Farm motor truck operation in the New England and central Atlantic states. L. M. Church. U S Agric Bul 1254:1-28 '24

MOTOR vehicles
Automotive vehicle and its effect on transportation. J: A. Dewhurst. il Elec Ry J 66:477-81 S 26 '25
Fortschritte im kraftwagenbau. A. Heller. il diags Zeit Ver Deutsch Ing 68:1281-8; 69: 399-405, 509-13, 713-16 D 13 '24, Mr 28, Ap 18, My 23 '25

MOTOR vehicles—*Continued*

Motor vehicle and highway trends in 1924. Eng N 94:872 My 21 '25

Motor vehicles and their relation to transportation. W. L. Powlison. Special Lib 16:54-5 F '25

New England motor transport conference, Boston, Dec. 8-9. Automotive Ind 51:1042-4 D 18 '24; Elec Ry J 64:1000-1 D 13 '24; Ry Age 77:1067-70 D 13 '24; Bus Transportation 4:41-3 Ja '25

Railways' competition and what it pays. Elec Ry J 63:728 My 10 '24

Schnellaufende dieselmotoren für fahrzeuge. W. Riehm. il diags Zeit Ver Deutsch Ing 69:1125-31 Ag 29 '25

Technische wirkungen gesteigerten kraftwagenverkehrs. K. A. Müller. Zeit Ver Deutsch Ing 68:1293-7 D 13 '24

Traction across rough and roadless country. L. A. Legros. il diags Engineering 117:282-6, 316-19, 347-50 F 29-Mr 14 '24; Same cond. (Traction hors route). Soc Ing Civils Bul 77: 7-32, pl 62 Ja '24; Excerpts. Automotive Ind 50:820-6, 868-72 Ap 10-17 '24

See also Ambulances; Automobiles; Automotive industries; Cycle cars; Electric trucks; Electric vehicles; Jitney buses; Motor buses; Motor cars (railroad); Motor cycles; Motor trucks; Railroads—Motor vehicle auxiliaries; Road traffic; Snow motor; Taxicabs; Tractors

Caterpillar type

Roadless transport problem. P. Johnson. diags Engineering 120:328, 337-9 S 11 '25

Traction across rough and roadless country. L. A. Legros. il diags Engineering 117:347-50 Mr 14 '24

Vulcan-roadless half-track vehicle. il Engineer 139:572, 574 My 22 '25; Engineering 119:648 My 22 '25

Wheelless motor-car. A. Gradenwitz. il Sci Am 129:381 D '23

Law

Interstate motor vehicle problems. Aera 13: 804-9 D '24

Michigan changes act to weight basis. Automotive Ind 52:284 F 12 '25

Motor vehicle conference committee seeks uniformity in state vehicle laws. Automotive Ind 52:220-2 F 5 '25

Motor vehicle legislation. Elec Ry J 66:749 O 24 '25

Motor vehicle legislation. Nat Safety N 12:24 Ag '25

Motor vehicle lighting regulations. Illum Eng Soc 18:949-54; Discussion. 955-63 D '23

Motor vehicles fare well in 1924 state legislation. N. G. Shidle. Automotive Ind 50: 1007-10 My 8 '24

One law versus forty-eight. Sci Am 130:96+ F '24

Pennsylvania to have stations for the examination of motor vehicle drivers. Eng & Contr (R & S) 60:1206 D 5 '23

Private motor truck carrier cannot be compelled to become common carrier. Aera 13: 1131-3 F '25

Proposed model motor vehicle statute. Aera 12:1003-10 Ja '24; Same cond. Elec Ry J 62: 1019-20 D 15 '23

Public service motor vehicles. R: T. Higgins. Aera 12:1744-9 My '24

Regulation of motor vehicles as common carriers. H: R. Trumbower. Pub Roads 5:16-19 Ag '24; Same. Munic & Co Eng 67:150-5 S '24; Same. Eng & Contr (R & S) 64:518-24 S 2 '25; Abstract. Automotive Ind 51:482-3 S 11 '24

Size, weight and speed restrictions in state motor vehicle laws; on statute books and in force January 1, 1924. Automotive Ind 50: 192-5 Ja 24 '24

States work toward uniformity in 1925 legislation. R. Huffman. Automotive Ind 52: 967-9+ Je 4 '25

Treatise on the law of public utilities, including motor vehicle transportation. O. L. Pond. 3d ed., rev. and enl. 1065p Bobbs '25

Untangling our automobile laws. il Sci Am 130:232+ Ap '24

Urge motor vehicle control in Massachusetts. Aera 12:1391-7 Mr '24

Vehicle lighting laws compiled. Soc Auto Eng J 17:319 O '25

See also Automobile laws and regulations; Motor bus lines—Laws and regulations; Motor trucks—Laws and regulations; Taxicabs —Laws and regulations

Taxation

Apportionment of motor vehicle fees, gasoline and county road taxes for use on city streets. D. C. Sowers. Munic & Co Eng 67: 3-7 Jl '24; Discussion. A. M. Wilson. 67:76-7 Ag '24

Are state highway programs on a sound financial basis. H: R. Trumbower. maps Good Roads 68:50-3 F '25; Same. Eng & Contr (R & S) 63:241-8 F 4 '25

Body builders urge abolition of excise tax. Bus Transportation 3:88 F '24

Bureau of internal revenue covering the collection of taxes from the automotive industry; text. Automotive Ind 51:536+ S 18 '24

Call for repeal of federal excise taxes on vehicles and parts. Bus Transportation 4: 545-6 N '25

Constitutionality of motor vehicle license fees and the gasoline tax. H: R. Trumbower. Pub Roads 5:7-10+ N '24

Federal taxation of the automobile industry. Econ W n s 29:703 My 16 '25

Fees from motor vehicle common carriers, report of committee on motor vehicle transportation of National association of railroad and utilities commissioners. Aera 13:854-60 D '24; Same. Eng & Contr (Ry) 63:591-6 Mr 18 '25

Gas tax laws increase. Bus Transportation 3:145-6 Mr '24

Highway income from the motor vehicle. H: R. Trumbower. Pub Roads 5:15-22 Ja '25

Highway traffic in California. L. I. Hewes. Pub Roads 5:14-15 D '24

Incidence of the highway tax burden. H: R. Trumbower. Pub Roads 5:1-10 Je '24; Excerpts. Automotive Ind 50:1382-6 Je 26 '24

Motor industry fares well at hands of 68th Congress. H. L. Cobb. Automotive Ind 52: 620-1 Ap 2 '25

Motor revenues and highway needs in Pennsylvania. W: H. Connell. Munic & Co Eng 67:320-1 D '24

Motor vehicle and municipal expenditures. Munic & Co Eng 68:187-8 Ap '25

Motor vehicle conference committee seeks uniformity in state vehicle laws. Automotive Ind 52:220-2 F 5 '25

Motor vehicle fees and gasoline taxes. H: R. Trumbower. Pub Roads 5:1-9+ S '24

Motor vehicles finance Wisconsin highways. J. T. Donaghey. Eng N 94:695 Ap 23 '25

National grange report says more taxes should be paid by automobile users. Automotive Ind 51:1063 D 18 '24

Organized motorists ask repeal of excise taxes on motor vehicles, parts, tires and accessories. Munic & Co Eng 69:204-10 O '25

Politically articulate, motor car owners win fight in House. J. Dalton. Automotive Ind 50:545-8 Mr 6 '24

Problem of highway financing in America. A. R. Hirst. Munic Eng 65:217-24 N '23; Same. Eng & Contr (R & S) 60:1213-20 D 5 '23; Excerpt. Eng N 91:967-8 D 13 '23

Project de loi sur l'Office national des routes. Génie Civil 84:164-5 F 16 '24

Reasons for repealing Federal motor vehicle excise taxes. Munic & Co Eng 69:21-3 Jl '25

Report of committee on motor vehicle transportation. Elec Ry J 64:889-90 N 22 '24

Review of the rating question. A. E. Berriman. Automobile Eng 15:55-61 F '25; Abstract. Engineering 119:140-1 Ja 30 '25

Senate votes to eliminate entire tax on parts and accessories. Automotive Ind 50: 1080-2 My 15 '24

MOTOR vehicles—Taxation—*Continued*
Sources of funds for highway purposes. H: R. Trumbower. Pub Works 55:367-71 D '24
Special taxation for motor vehicles. 27p Motor vehicle conference committee, 366 Madison ave., New York '25
Taxation of motor vehicles in the United States. J. W. Follin. chart Ann Am Acad 116:141-59 N '24
Taxation of transportation agencies; U.S. Chamber of commerce report. Aera 12:773-6 D '23; Same. Automotive Ind 49:1033-5 N 22 '23; Same cond. Elec Ry J 62:905-6 N 24 '23; Excerpts. Ry Age 75:966-7 N 24 '23; Abstract. Ry R 73:759 N 24 '23
Taxing the automotive industry. J: A. Ritchie. Am Ind 25:5-8+ Ap; 13-17 My '25; Same cond. Bus Transportation 4:163-5 Ap '25
Transportation efficiency in future depends on motor vehicle. G: M. Graham. Automotive Ind 50:1070-1 My 15 '24
Truck below $1,000 has levy taken off. Automotive Ind 50:530+ F 28 '24
United we'll win, divided we'll fail, on excise tax removal. Automotive Ind 50:330-1 F 14 '24
Users should pay full costs of highway facilities; report of special committee of National tax association. Aera 13:650-67 N '24
What price highways? answer to this query gives basis for automobile taxes. N. G. Shidle. Automotive Ind 52:109-10 Ja 15 '25
See also Automobiles—Taxation; Motor bus lines—Taxation; Motor trucks—Taxation

MOTOR vehicles and the central station
Truckfleet makes good off-peak load. C. D. Monteith. Elec W 85:259 Ja 31 '25

MOTORCOACH (term)
Motorcoach considered preferable to motorbus as standard nomenclature. Soc Auto Eng J 16:590 Je '25

MOTORS
See Airplane engines; Automobile engines; Diesel engines; Electric motors; Gas and oil engines; Motor bus engines; Motor cycle engines; Motor truck engines; Turbines

MOTORS, Electric. See Electric motors

MOTORSHIPS. See Motor ships

MOTORWAYS. See Roads, Automobile

MOUNTAIN producers corporation
Annual report for year 1924. Comm & Fin Chr 120:2697 My 23 '25

MOUNTAIN railroads
Electric passenger cable suspension line. R. Henker. il Eng N 95:24 Jl 2 '25
Incline railways facilitate dam construction in the West. il Eng N 91:855 N 22 '23
Linking Mexico and California. G: F. Paul. il map Sci Am 133:316-17 N '25
Mountain railways. D. Winkler. Elec W 86: 425 Ag 29 '25
Penang Hills railway. il diags map plan Engineering 118:664-8, 678, 726-30, 740, 789-92, 852-3, pl 69-72 N 14, 28, D 12, 26 '24
30 jahre Barmer bergbahn. E. Körner. il Elektrotech Zeit 45:949-51 S 4 '24
Transporteurs à cables; section minimum des câbles porteurs; règlement italien sur les funiculaires à voyageurs. F. Crestin. Génie Civil 87:225-7 S 12 '25
Die Zugspitzenbahn. diags Elektrotech Zeit 46:703-4 My 7 '25; Zeit Ver Deutsch Ing 69: 763-4 My 30 '25
See also Cable railroads; Cableways; Centovalli railway; Locomotives—Rack type

MOUNTAIN roads
Building a cliff road to the Bear Mountain bridge. J: M. Belknap. il Eng N 93:736-8 N 6 '24
Mountain highway built on railway grade. il diag map Eng N 94:1016-17 Je 18 '25
Roads for fighting forest fires. W. A. Gillette. Eng & Contr (R & S) 62:1039-40 N 5 '24

MOUNTAIN states power company
Mountain states power company successful example of centralized control and operation. Pub Serv Management 38:78 Mr '25

MOUNTAINEERING
See Everest, Mount

MOUNTAINS
See Avalanches; Folds (geology); Volcanoes; *also* Bearpaw mountains, Montana

MOURNING colors
Funeral colors in various countries. Ptr Ink 133:160 O 8 '25

MOVABLE bridges. See Bridges, Movable

MOVABLE dams. See Dams, Movable

MOVING
Building and moving with no interruption of production. L. Anson. il Factory 32:326-7+ Mr '24

MOVING of structures
Blocking system for moving small houses. il diags Bldg Age 46:126 D '24
Describes heavy moving job. W Soc E J 28: [current news] 216-17 N '23
Final step in housemoving. il Bldg Age 47:129 Ja '25
House cut in half, moved and rebuilt on new foundations. J. J. Birch. il Eng N 94:823-4 My 14 '25
Method of moving houses on narrow gage tracks. Eng & Contr (Bldgs) 61:214-15 Ja 23 '24; Same. il Sci Am 130:177 Mr '24
Moving a 7500-ton office building. il diags Engineer 137:340-1 Mr 28 '24
Moving houses by barge. il Eng & Contr (Bldgs) 61:666-7 Mr 26 '24
Moving wood-stave tanks on scow. G. C. Grubb. il Eng N 94:740 Ap 30 '25
Seven story brick building is successfully moved. H. Fillippi. il Ry R 73:673-8 N 10 '23; Same. Eng & Contr (Ry) 60:1063-70 N 21 '23; Same. W Soc E J 29:13-22 Ja '24
300-ton pier shed moved 170 ft. with barge derricks. il Eng N 95:392 S 3 '25
See also Bridge moving

MOVING picture films
Non-inflammable vs. inflammable films. R. F. Remler. Safety Eng 48:164-6 O '24

MOVING picture industry
The man who heads the new merger in the movies. Marcus Loew. C. T. Crowell. Forbes 14:156-8+ My 10 '24
Mass movements in the movies. G. Allvine. Comm & Fin 14:1083-4 Je 3 '25
More mergers in the movies. R. Spillane. Comm & Fin 13:792 Ap 23 '24
Motion pictures and the banker. R: W. Saunders. il Bankers M 108:29-42 Ja '24
Movie industry applies chain store methods. P. V. Shields. il Forbes 16:526-8 Jl 15 '25
Photoplay and allied industries. A. Motelle. Annalist 25:835-6; 26:6 Je 22, Jl 10 '25
Stabilization of the motion picture industry. Comm M 6:3-11 S '24
Tough job, moving the movies. T. Ramsaye. il Nation's Business 13:25-7 Ja '25

Advertising

Movie advertisers find misrepresentation does not pay. E. W Mandeville. Ptr Ink 130: 17-20 Ja 29 '25
Strategy of the silver sheet. Ptg Art 44:565-71 F '25

MOVING picture machines
Guide to kinematography (projection section). C. N. Bennett. 2d ed. 194p Pitman '23

MOVING picture operators
Agreements covering the season 1923-24 from unions in 21 representative cities. Monthly Labor R 18:580-4 Mr '24

MOVING picture photography
Bell & Howell small motion picture camera. il Eng N 94:1079 Je 25 '25
Chemical engineering in the motion-picture industry. F. L. Righter. il Chem & Met Eng 32:627-8 Jl '25

MOVING picture photography—*Continued*
Closer co-operation between producer and engineer in motion-picture lighting. W. B. Ihnen and D. W. Atwater. il Illum Eng Soc 19:902-13 N '24
Doubling the field of vision of the movies. il Sci Am 130:105 F '24
How Eastman prepared the way for home-made movie advertising. A. E. Haase. Ptr Ink 126:33-4+ Mr 13 '24
Investigations on photographic developers; sulphide fog caused by bacteria in motion picture developer. M. L. Dundon and J. I. Crabtree. J Fr Inst 199:263 F '25
Lamps used in industrial cinematography. il diag Engineering 118:295-6 Ag 29 '24
Motion picture photography for the amateur. H. C. McKay. 219p Falk pub. co., inc., New York '24
Source électrique de grande puissance, pour prise de vues cinématographiques destinées à être projetées au ralenti. diag Génie Civil 86:115-16 Ja 31 '25
When a second seems an age. P. J. Risdon. il Sci Am 130:166 Mr '24

Engineering applications
Kinematics; the analysis of complex rapid mechanical motions. A. W. Judge. il diags Automobile Eng 14:265-70 S '24

MOVING picture studios
See also Moving pictures—Setting and scenery

Heating and ventilation
Air conditioning system for a modern film laboratory. F. E. Garbutt. diags plans Heat & Ven 20:39-44 D '23

Lighting
Closer co-operation between producer and engineer in motion-picture lighting. W. B. Ihnen and D. W. Atwater. il Illum Eng Soc 19:902-13 N '24
Daylight, twilight and mist in the movies. E: Ellington. il Sci Am 133:98-9 Ag '25
Incandescent tungsten lamp installation for illuminating color motion picture studio. L. A. Jones. J Fr Inst 200:675-6 N '25

MOVING picture theaters
Colony theatre, Broadway and Fifty-third street, New York city. il Arch & Bldg 57: 19-20, pl 40-3 F '25
Colony theater, New York city. il plans Bldg Age 47:82-3 Ag '25
Description of the Capitol theater, Chicago. J. Eberson. il Arch Forum 42:373-6 Je '25
Furnishing comfort for the film fan. G. I. Stodola. il plan Bldg Age 47:116-18 Ap '25
Jackson theatre, Jackson Heights, Long Island, N.Y. il Bldg Age 47:112 O '25
Loew's Coney Island theatre, Coney Island, N.Y. Arch & Bldg 57:80+, pl 194-5 S '25
Macomb theatre, Mt. Clemens, Mich.; views and plans. Am Arch 126:pl 46-8 Jl 30 '24
New Embassy theatre, New York city. il Am Arch 128:313-14 O 5 '25
Observations on motion picture theaters. C. H. Crane. il diags Arch Forum 42:381-4 Je '25
Piccadilly theatre, New York city. Arch & Bldg 56:113-14, pl 236-9 D '24
Planning of the motion picture theater. il Arch Forum 42:385-8 Je '25
Present tendencies in the design of theater facades. K. Franzheim. il diag Arch Forum 42:365-8 Je '25
Small motion picture theater. J. H. Phillips. il diags plans Arch Forum 42:411-16 Je '25
Some structural features of theaters. H: Ahrens. il Arch Forum 42:407-8 Je '25; Same. Eng & Contr (Bldgs) 64:203-5 Jl 22 '25
Theater entrances and lobbies. E. C. A. Bullock. il Arch Forum 42:369-72 Je '25
Unusual movie theatre at Wilkinsburgh, Pa. il Bldg Age 46:54-5 Jl '24
Use of Indian motifs in theater decoration. M. A. Rolfe. il Arch Forum 42:391-2, pl 69-70 Je '25
What the public wants in the picture theater; Capitol theater, New York. S: L. Rothafel. il Arch Forum 42:361-4 Je '25

Accounting
Motion picture theatre accounting [forms]. W: F. Morris. 144p M.P.T. pub. co., 235 Rubicam st., Philadelphia '23

Designs and plans
Motion picture theater reference number. Arch Forum 42:361-432 Je '25

Electric equipment
Electrical equipment of the Tivoli kimena, Strand, London. il Elec R (Lond) 93:661-3 N 2 '23

Heating and ventilation
Cooling the Rivoli theatre. il Refrig W 60: 9-11 Ag '25
Downward-diffusion air conditioning system for Grauman's Metropolitan theatre, Los Angeles, Cal. diag Heat & Ven 21:57-8 Mr '24
Heating, ventilating and cooling of theatres, churches, auditoriums, etc. C: L. Hubbard. il diags Dom Eng 106:97-102a Ja 5 '24
Ventilating and cooling of motion picture theaters. D. D. Kimball. diags Arch Forum 42:393-8 Je '25; Same. Eng & Contr (Bldgs) 64:707-13 S 23 '25; Abstract. Heat & Ven 22: 79-80 Ag '25

Lighting
Coloured cinema lighting. il Electrician 95: 100-1 Jl 24 '25
Lighting of the Capitol theatre, London. il Elec R (Lond) 96:591-2 Ap 10 '25
Question of lighting. I. J. Lichter. Arch Forum 42:389-90 Je '25

Projection rooms
Design of theater projection rooms. J. H. Kurlander. il diags Arch Forum 42:403-6 Je '25

MOVING pictures
Antediluvian monsters of rubber. il India Rubber W 72:707-8 S '25
Rubber used in mammoth models. F. A. Emmons. il Rubber Age 18:54-5 O 25 '25
See also American motion picture corporation

Musical accompaniment
Encyclopædia of music for pictures. E. Rapee. 510p Belwin, Inc., New York '25
Making the movie film give the music cues. il diag Sci Am 133:232 O '25

Setting and scenery
Daylight, twilight and mist in the movies. E: Ellington. il Sci Am 133:98-9 Ag '25
Mountains made to order for moving picture production. P. D. Hugon. il Sci Am 132:17 Ja '25

MOVING pictures, Colored
Chemical engineering in the motion-picture industry. F. L. Righter. il Chem & Met Eng 32:627-8 Jl '25
La cinématographie en couleurs par le procédé Keller-Dorian. diags Génie Civil 87: 171-2 Ag 22 '25

MOVING pictures, Stereoscopic
Mechanical aids to motion study. K. H. Condit. il Am Mach 62:685-8 Ap 30 '25

MOVING pictures, Talking
Phonofilms; details of Dr Lee de Forest's talking pictures; abstracts. C. F. Elwell. il Electrician 91:732 D 28 '23; Inst E E J 62: 231-2 Mr '24
Phonofilms or talking motion pictures; Dr Lee De Forest's new process; abstracts. C. F. Elwell. Elec R (Lond) 95:996-7 D 26 '24; Engineering 119:69-70 Ja 16 '25
Radio and movies are now linked. C. Galloway. il Radio N 7:586-7+ N '25

MOVING pictures in advertising
Educational department to supplement advertising. R. M. Farrell. Ptr Ink 127:109-10 Je 26 '24
How Bassick gets distribution for a sales film. F. J. Cummings. Sales Management 9:512+ O 17 '25

MOVING pictures in advertising—*Continued*
Monthly film of business review; a Denver bank's venture in motion picture advertising. J: T. Bartlett. Burroughs Clearing House 8:21+ Mr '24
Motion picture—a medium for utility publicity. G: J. Kelly. il J Elec 53:393-5 D 1 '24; Same. N E L A Bul 12:25-7 Ja '25
Originating and distributing the industrial motion picture. R. M. Farrell. Ptr Ink M 9: 62+ N '24
Public utility in pictures. B. Moon. Pub Serv Management 36:108-9 Ap '24
Young idea learns about Rochester's utilities. A. C. Rissberger. il Gas Age 55:839-40 Je 13 '25

MOVING pictures in education
Motion pictures for health. J. A. Tobey. il Nation's Health 6:252-3+ Ap '24
Visual education. F. N. Freeman, ed. 391p Univ. of Chicago press '24

MOVING pictures in industry
Die ausdrucksmöglichkeiten des technischen filmes. R. Thun. Zeit Ver Deutsch Ing 68:782-5 Jl 26 '24
Film visualizes electrical progress. il Elec W 85:777 Ap 11 '25
Motion pictures in cotton mill work would bring improvement in operatives. D. H. Clark. Manuf Rec 87:85-6 My 14 '25
Motion pictures in educational work. il Nat Safety N 10:48-54 S '24
Motion pictures of power plant construction. il Elec W 83:372 F 23 '24
Safety picture, "Live and let live," combines romance and thrills. P. Wagner. il Nat Pet N 16:67-8 Ag 6 '24

MOVING platforms
Continuous transit proposed for Atlanta; underground moving sidewalks. diags Elec Ry J 65:136-8 Ja 24 '25
Moving platform tests show low power requirement. il Elec Ry J 62:899-901 N 24 '23; Eng N 91:922-3 D 6 '23; Sci Am 130:29 Ja '24
Moving platforms for Paris. plan Elec Ry J 63:193 F 2 '24; Same. Eng & Contr (Ry) 61:394 F 20 '24
See also Escalators

MOVING vans
Putting moving day on a railroad schedule. W. E. Sweeting. il Forbes 13:699-700+ Mr 15 '24

MOZAMBIQUE
See Automobile industry and trade—Mozambique

MUCIC acid
Catalyzed oxidation of galactose. E. O. Whittier. Ind & Eng Chem 16:744-5 Jl '24

MUCONIC acid
Muconic and hydromuconic acids; the isomerism of the muconic acids. E. H. Farmer. Chem Soc J 123:2531-48 O '23
Muconic and hydromuconic acids; valency interchange in the hydromuconic system. E. H. Farmer. Chem Soc J 123:3324-31 D '23

MUCOPROTEINS. See Proteins

MUD spraying
Is mud equal to rock dust for mine protection? il diag Coal Age 26:391-4 S 18 '24

MULHOLLAND, William, 1855-
Sketch. P. H. Calahan. por Prof Eng 9:5-6, 12-13 Mr-Ap '24

MULLITE
Differentiation between mullite and sillimanite by their X-ray diffraction patterns. L: Navias and W. P. Davey. il Am Cer Soc J 8:640-7 O '25
Formation of mullite from cyanite, andalusite, and sillimanite. J. W. Greig. il diags Am Cer Soc J 8:465-83; Discussion. 483-4 Ag '25
Quantitative determination of the development of mullite in fired clays by an X-ray method. L: Navias. Am Cer Soc J 8:296-302 My '25; Discussion. (Bul) 8:543-5 O '25
Sillimanite development in some typical clays. H. M. Kraner. il diags Am Cer Soc J 7: 726-34 O '24
The system: Al_2O_3. SiO_2. N. L. Bowen and J. W. Greig. il diags Am Cer Soc J 7:238-54 Ap '24; Discussion. (Bul) 7:386-7 O '24

MUMMIES
X-ray photographs of mummies. Sci Am 131: 251 O '24

MUNICH

Deutsche verkehrsausstellung
Deutsche verkehrs-ausstellung München 1925. D. Przygode; F. Moench. il diags Elektrotech Zeit 46:1431-6, 1481-7, 1504-8 S 17-O 1 '25

Deutsches museum von meisterwerken der naturwissenschaft und technik
Das Deutsche museum. C. Matschoss. il Zeit Ver Deutsch Ing 69:609-12, pl 4-6 My 9 '25
Deutsches museum, Munich. il Engineer 139: 644-6 Je 12 '25
German museum of applied science. Mech Eng 47:775 S '25
Das projektions-planetarium des deutschen museums in München. W. Bauersfeld. il diags Zeit Ver Deutsch Ing 68:793-7 Ag 2 '24
Zur eröffnung der neuen sammlungsräume des deutschen museums in München. il plan Elektrotech Zeit 46:681-2 My 7 '25
Zur eröffnung des Deutschen museums in München. W. Richter. il Stahl & Eisen 45: 697-701 My 7 '25

Technische hochschule
Der technologische unterricht an der technischen hochschule München. C. Prinz. Zeit Ver Deutsch Ing 69:659-63 My 9 '25

MUNICIPAL accounting
Accountancy and the tax problem. J. P. Goddard. J Account 39:309-16 Ap '25
Municipal accounting. E. F. MacDonald. 59p Bennett accountancy institute, Philadelphia '24
Municipal accounting systems. S. Whitehead. 134p Pitman '24
See also Street cleaning departments—Accounting

MUNICIPAL advertising
City learns how to raise funds for paid advertising campaign. Ptr Ink 126:114-15 F 28 '24
How a city has evolved a definite advertising program. R. Crothers. Ptr Ink 125:173-4+ D 13 '23
How to improve and increase community advertising. C. Hunt. Ptr Ink 130:61-2+ Ja 15 '25
Making municipal advertising a municipal duty; St Petersburg, Florida, taxes its population to pay for advertising. E. E. Garrison. Ptr Ink 129:148+ O 9 '24
Philadelphia; publicity for a great city. Ptg Art 44:456a-b Ja '25
Portland, Ore., in a two-year advertising campaign. Ptr Ink 126:149+ Mr 6 '24
Shall town and city publicity work be maintained by taxation? W. B. Powell. Manuf Rec 85:67-9 Ja 24; 69-72 F 21 '24
Shriners on pilgrimage advertise Akron. Ptr Ink 131:121+ Je 25 '25
Telling the people their business. T: J. Mercer. Ptr Ink 133:169-70+ N 5 '25

MUNICIPAL bonds
Activity in municipal bond market. Munic & Co Eng 66:296 Je '24
Attractive exchanges; city of Copenhagen ext. 5½s, 1944; city of Zurich ext. 8s, 1945; city of Berne ext. 8s, 1945. Moody's Inv Serv 16:248 Je 19 '24
Availability of municipal bonds as security for deposits of postal savings funds. Comm & Fin Chr 117:235-6 sec 2 D 29 '23
Bond market better now than ever. S. Shanks, jr. Eng & Contr (W W) 63:282-4 F 11 '25

MUNICIPAL bonds—*Continued*
Bond proposals and negotiations; United States and Canada. See weekly numbers of Commercial and financial chronicle
City of Christiania (Oslo) 8s, due October 1, 1945. Moody's Inv Serv 17:299 S 10 '25
City of Copenhagen ext. 5½s. 1944. Moody's Inv Serv 16:159-60 Ap 17 '24
City of Copenhagen 5½s, 1944; City of Trondhjem 6½s, 1944; City of Greater Prague 7½s, 1952; City of Christiania (Norway) 8s, 1945. Moody's Inv Serv 16:455 D 18 '24
Course of prices of New York state and city securities during the year 1923. Comm & Fin Chr 118:49 Ja 5 '24
Course of prices of New York state and city securities during the year 1924. Comm & Fin Chr 120:173 Ja 10 '25
Fourteenth supplemental list of attorney's opinions and legal papers deposited with United States mortgage & trust company. I B A of A 12:103-82 Ja 31 '24
Hungarian consolidated municipal loan 7½s, July 1, 1945. Moody's Inv Serv 17:307 S 17 '25
Illinois special assessment law with special reference to the security of bonds issued thereunder. A. H. Little. I B A of A 13:93-9 N 29 '24
Insurance of municipal bonds: a possible method of increasing the confidence of investors. H. H. Sears. Econ W n s 29:779-80 My 30 '25
Interim report municipal securities committee. I B A of A 13:117-18 Ja 31 '25
Interim report of the municipal securities committee. I B A of A 12:221-3 Mr 31 '24
Issues of state and municipal bonds in the United States in 1923. Econ W n s 27:122 Ja 26 '24
Issues of state and municipal bonds in the United States in 1924. Econ W n s 29: 50-1 Ja 10 '25
Municipal and government bonds. Moody's Inv Serv 17:305-6 S 17 '25
Municipal bond market in 1923. S. C. Mosser. Comm & Fin Chr 118:367-8 Ja 26 '24
Municipal bond proposals and negotiations. Published in weekly numbers of Commercial and financial chronicle
Municipal bond sales in 1923. Comm & Fin Chr 118:3-8 sec 2 Je 28 '24
Municipal bond sales in October. Comm & Fin Chr 117:2131 N 10 '23 [continued monthly]
Municipal bond sales in the calendar year 1924. Comm & Fin Chr 120:5-9, 202-3 sec 2 Je 27 '25
Municipal bond sales in United States for the years 1901-1924. Comm & Fin Chr 120:10 sec 2 Je 27 '25
Municipal bonds. Moody's Inv Serv 17:234 Jl 16 '25
Municipal bonds in 1924. S. C. Mosser. Comm & Fin Chr 120:508 Ja 31 '25
Municipal bonds in 1924. G. Reis. Comm & Fin Chr 120:1021 F 28 '25
Offering of bonds of State of Wurttemberg, City of Duesseldorf, and City of Heidelberg. Comm & Fin Chr 121:2106-7 O 31 '25
Offering of city of Buenos Aires bonds. Comm & Fin Chr 118:1979-80 Ap 26 '24
Offering of $7,000,000 Danish consolidated municipal bonds. Comm & Fin Chr 121:2220-1 N 7 '25
Presenting public improvement bond projects to the voters. W: E. Stanley. Munic & Co Eng 68:148-54 Mr '25
Publicity as a remedy for municipal bond defaults. A. H. Little. I B A of A 13:185-7 Mr 31 '25
Redemption and retirement of state and municipal bonds during 1924—the extent of the totals. Comm & Fin Chr 120:10-12 sec 2 Je 27 '25
Report of committee on municipal securities of Investment bankers association. Comm & Fin Chr 117:2073-4 N 10 '23
Report of municipal securities committee. I B A of A 13 no 10:308-22 My 21 '25
Report of municipal securities committee of I.B.A. Comm & Fin Chr 119:1555-7 O 4 '24
Selecting public securities. J: Moody. Forbes 15:621-4 F 15 '25
Special utility debt of Seattle, Washington. Moody's Inv Serv 17:171 My 21 '25
State and municipal bonds. W: L. Raymond. 388p Financial pub co., Boston '23
United States and municipal bonds; prices. Published in monthly Bank and quotation section of Commercial and financial chronicle
Zurich 8s, 1945—Berne 8s, 1945. Moody's Inv Serv 16:368 O 2 '24

See also Taxation, Exemption from

MUNICIPAL budget. See Budget, Municipal

MUNICIPAL buildings
Athol memorial building, Athol, Massachusetts; views and plans. Arch Rec 56:545-51 D '24
Lebanon town hall, Lebanon, N. H. il plans Am Arch 127:143-4 F 11 '25
LeBrun travelling scholarship competition—1925. il Am Inst Arch J 13:171 My '25
Municipal building, Brooklyn. il plans Arch Forum 41:153 S '24
Proposed new offices, Singapore (Straits Settlement) municipality. il plans Am Arch 127:491-2 Je 3 '25
Town halls, Tewksbury, Mass. and Dover, Mass. il plans Am Arch 128:413-16 N 5 '25
Town house and other buildings, Peterborough, New Hampshire; views and plans. Arch Rec 56:321-33 O '24

See also Charity organization buildings; Community centers; Fire houses; Public buildings; Public comfort stations

MUNICIPAL centers
Los Angeles' administration center. E. G. Leaf. plans Am Arch 127:317-19 Ap 8 '25
New administration center plan for Los Angeles. Arch Rec 57:474, 475 My '25; Nation's Health 7:353-4 My '25
New civic centre of Los Angeles. plan Am Inst Arch J 13:151-2 Ap '25

See also Squares (cities)

MUNICIPAL charters
Charter of divided responsibilities for Los Angeles. Eng N 93:326-7, 338-41 Ag 28 '24

MUNICIPAL corporations
Municipal code of Ohio. W. H. Ellis. 7th ed. 1462p W. H. Anderson co., Cincinnati '24
Principles of the law of municipal corporations. C: B. Elliott. 3d ed., rev. 466p Callaghan & co., Chicago '25

See also Municipal liability

MUNICIPAL employees
Certain municipal employees not exempt from income tax. Eng N 94:106 Ja 15 '25

See also New York (city)—Officials and employees; Police; Street cleaners

Salaries

Salaries in the police and fire departments of specified cities. Monthly Labor R 19:802-16 O '24
Wages and hours of labor in municipal employment in Massachusetts, July 1, 1924. Monthly Labor R 20:801-24 Ap '25

See also Municipal engineers—Salaries; Police—Salaries

MUNICIPAL engineering
Drawing, advertising and letting municipal contracts. J. N. Ambler. Eng N 93:906-9 D 4 '24
Engineering in the small city. Eng N 94:800-1, 858-9, 891-2, 930, 977-9, 1018-20, 1066-8; 95:9-10, 60-3, 95-7, 133-5, 173-5, 225-7, 259-61, 305-7, 349-50, 381-3, 425-7, 472-5, 511-13, 543-5, 587-8, 627-9, 671-3, 717-19, 755-7 My 14, Jl 2-N 5 '25

MUNICIPAL engineering—*Continued*
Urban growth and progress. M. N. Baker. il Eng N 92:691-3 Ap 17 '24

See also City planning; Drainage; Grade crossing elimination; Parks; Pavements; Public comfort stations; Public works; Refuse collection; Refuse disposal; Sanitary engineering; Sewage disposal; Sewerage; Street cleaning; Street lighting; Streets; Water purification; Water supply; Water supply engineering

MUNICIPAL engineers
How the work of city engineers and consultants should dovetail. Eng N 95:673 O 22 '25
Public service engineers. A. Richards. Prof Eng 10:14-15 O '25

Salaries
Compensation. Prof Eng 9:19+ S '24
574 city engineers strike. Eng & Contr (W W) 64:64-5 Jl 8 '25

MUNICIPAL finance
Expenditures by California municipalities. Pub Works 55:353-4 N '24
Financial statistics of American cities in 1923. Econ W n s 29:810 Je 6 '25
Financial statistics of cities having a population of over 30,000, 1922. 307p U S Bur Census '24
Local authority finance, accounts and auditing. J: H: Burton. 369p Gee & co., London '23
Making the land owner pay. Aera 12:994-7 Ja '24
Motor vehicle and municipal expenditures. Munic & Co Eng 68:187-8 Ap '25
Municipal debt. W. P. Helm, jr. Soc Auto Eng J 15:579 D '24
Municipal finance and improvement policies. H. G. McGee. Eng N 92:230-2 F 7 '24
Organization and administration of the finance department. W: Bateson and H. Greenwood. 267p Pitman '24
Per capita cost of government in Canada. Econ W n s 28:595 O 25 '24
Rapidly increasing indebtedness of American cities and the purposes for which it was incurred. W: P. Helm, jr. Econ W n s 28: 701-2 N 15 '24
Special assessments for local improvements in Maryland. R. K. Compton. Good Roads 56:51-4 F '24
Special assessments for public improvements in Memphis, Tenn. C. C. Pashby. Munic & Co Eng 67:182-3 O '24
State and municipal borrowing in relation to the business cycle. B: M. Anderson. Chase Econ Bul 5:1-18 Je 10 '25; Excerpts. Comm & Fin Chr 120:3141 Je 20 '25; Econ W n s 29:845-6 Je 13 '25; Excerpt (Public works as depression cure). Eng & Contr (R & S) 64:327-8 Ag 5 '25
State and municipal compendium of the Commercial and financial chronicle; New England, Middle and Central states (formerly State and city section). Comm & Fin Chr 120:5-208 sec 2 Je 27 '25 [published annually in June]
State and municipal compendium of the Commercial and financial chronicle; Western, Pacific and Southern states, territories and possessions (formerly State and city section). Comm & Fin Chr 119:1-247 sec 2 D 27 '24 [published annually in December]
When financial brains run the town. C. Y. Belknap. il Burroughs Clearing House 8: 10-12+ Mr '24
Why our cities go in debt. Comm & Fin 13: 2232 N 19 '24

See also Budget, Municipal; Municipal accounting; Municipal bonds; Municipal employees—Salaries; Pavements—Finance; Purchasing, Municipal; Streets—Finance; Waterworks—Finance

MUNICIPAL franchises
Validity of franchise contract fixing maximum rate for gas where there is an alternative right of regulation. J: Simpson. Gas Age 54: 85-6 Jl 19 '24

See also Public utilities—Franchises; Street railroads—Franchises

MUNICIPAL golf courses. See Golf links, Municipal

MUNICIPAL government
American city government. W: Anderson. 675p Holt '25
Comparison of three plans of city government. Munic & Co Eng 67:13-17 Jl '24
Municipal index, 1925. 521p American City Magazine, 443 4th av., New York '25
Publicity as an aid to municipal government. F. D. Stringham. Munic & Co Eng 69:224-6 O '25
Selected readings in municipal problems. J. Wright, comp. 961p Ginn '25
Three years of progress in city government in New York state. Comm & Fin Chr 117: 2853-4 D 29 '23
Trend of reorganization in city government. E: T. Paxton. Ann Am Acad 113:195-201 My '24
Why is a city? J. A. Van Osdol. Munic & Co Eng 69:94-100 Ag '25

See also Municipal charters; Municipal finance; Municipal franchises; Municipal ownership; Municipal reference libraries

Bibliography
Municipal index, 1925. 521p American City Magazine, 443 4th av., New York '25

City manager plan
Business-managing our cities. D. W. Hyde, jr. Nation's Business 12:38-40 Mr '24
Centralized purchasing in city manager cities. R. Forbes. Eng & Contr (W W) 64:587-96 S 9 '25
City management at Chatham. C. H. R. Fuller. il map Can Eng 48:421-3 Ap 21 '25
City manager in a new city. C. A. Bingham. Eng & Contr (W W) 62:350-2 Ag 13 '24
City manager plan put to million test. R. D. Pinkerton. Nation's Business 12:26-7 Jl '24
Coordinating departments in a city government. C: E. Ashburner. Munic & Co Eng 69:197-8 O '25
Experience with the council-manager plan at Dubuque, Iowa. O. E. Carr. Munic & Co Eng 68:84-7 F '25
Growth of city manager plan. Eng & Contr (W W) 61:374, 1094 F 12, My 14 '24
Problems of the city manager in a community of about 10,000. F. D. Danielson. Eng & Contr (W W) 60:1265-6 D 12 '23

Commission plan
When financial brains run the town. C. Y. Belknap. il Burroughs Clearing House 8:10-12+ Mr '24

MUNICIPAL home rule
New York home rule amendment void. Bradstreet's 53:449 Jl 11 '25

MUNICIPAL ice plants. See Ice plants, Municipal

MUNICIPAL improvement
Kind of town we would like to live in. J: Ihlder. Munic & Co Eng 67:29-31 Jl '24
Need of a legal basis for co-operation between municipalities. W: R. Hopkins. Good Roads 67:163-5 D '24
Presenting public improvement bond projects to the voters. W: E. Stanley. Munic & Co Eng 68:148-54 Mr '25
Proposed form of general contract for municipal improvements. Munic & Co Eng 68:11-19 Ja '25
Publicizing plans for municipal work. S. H. Evans. Eng N 95:426-7 S 10 '25

See also Assessment; City planning; Metropolitan districts

MUNICIPAL improvements, American society for. See American society for municipal improvements

MUNICIPAL law. See Municipal corporations

MUNICIPAL liability
Municipal liability for snow on crosswalks. J: Simpson. Pub Works 55:61-4 F '24
Obstructions and holes in streets and roads. J: Simpson. Pub Works 56:246-9, 283-5 Jl-Ag '25

MUNICIPAL markets. See Markets, Municipal

MUNICIPAL ownership
Engineering rescued municipal utilities; Bellefontaine, Ohio, light and water plants. il Power 62:250-2 Ag 18 '25
How far should a city go in commercial enterprises? H. C. Bottoroff. Munic & Co Eng 67:210-12 O '24
Municipal trading. J: H. Warren. 95p Labour pub. co., ltd., London '23
New municipal ownership bill introduced in Albany. D. Holbrook. Am Gas J 120:218+ Mr 8 '24
Reasons for municipal ownership failure. B. J. Mullaney. Elec W 84:956-7 N 1 '24
Specter of city ownership fades. F. W. Parsons. il Nation's Business 12:17-19 O '24
What is the Bone-Erickson bill? N. W. Brockett. J Elec 53:174-6, 179 S 1 '24
Why I do not believe in municipal ownership; an interview with Ole Hanson. N E L A Bul 11:285-6 My '24; Same. J Elec 52:235-6 Ap 1 '24
Why is a city? J. A. Van Osdol. Munic & Co Eng 69:98-100 Ag '25

See also Asphalt plants, Municipal; Electric plants, Municipal; Electric utilities—Municipal ownership; Gas works, Municipal; Ice plants, Municipal; Motor bus lines, Municipal; Street railroads, Municipal; Street railroads—Municipal ownership

MUNICIPAL publications
Distribution of Chicago city documents. Special Lib 14:150 N '23

MUNICIPAL purchasing. See Purchasing, Municipal

MUNICIPAL reference libraries
Civic libraries of prominence. Special Lib 15: 242-3 D '24
Complete list of municipal reference libraries. Special Lib 15:249 D '24
Municipal reference from coast to coast. R. B. Rankin. Special Lib 15:238-9 D '24

MUNICIPAL research
Co-operative municipal research. E: D. Greenman. Special Lib 15:235-7 D '24

MUNICIPAL tramways association
Annual conference, Brighton, Sept. 9-11. Elec R (Lond) 97:451-3, 517-19, 552-3 S 18-O 2 '25; Electrician 95:325-6, 444-5 S 18, O 16 '25
Annual conference, Southport, Eng., Sept. 17-19. Elec R (Lond) 95:479, 520-2 S 26-O 3 '24; Electrician 93:376-7 O 3 '24

MUNITION factories
Apprenticeship in the Royal ordnance factories. G. W. Tripp. Engineer 139:372-3 Ap 3 '25

MUNITIONS of war
Business man and a next war. D. F. Davis. il Nation's Business 13:30-2 Ag '25
Geneva arms conference. Bradstreet's 53:321 My 16 '25
International treaty on arms traffic opens way for munitions trade. P. Wooton. Am Mach 63:405 S 3 '25
La mobilisation économique et l'organisation industrielle et scientifique de la nation pour le temps de guerre. J. L: Picheral and P. Croissandeau. Chimie & Ind 12:765-9, 958-62 O-N '24
Organizing industry for preparedness against war. D. F. Davis. Management & Adm 7: 281-2 Mr '24
Le ravitaillement agricole, industrial et commercial en cas de guerre. J. L. Picheral and J. David. Chimie & Ind 13:331-6 F '25
Les recherches scientifiques pour la défense nationale. J. L. Picheral and Granderye. Chimie & Ind 13:1038-43 Je '25
Some production problems in the war department's preparedness program. H. W. Churchill. Mech Eng 46:268-70; Discussion. 270-1 My '24

MUNN, Charles Allen, 1859-1924
Sketch. por Sci Am 130:supp My '24

MUNRO, Charles H.
Mining engineers of note. por Eng & Min J 118:84 Jl 19 '24

MUNTZ metal
Corrosion of Muntz metal in sea water. W. Donovan and T. E. Perks. il Soc Chem Ind J 43:72-5 Mr 28 '24
Corrosive action of brackish waters on metals. T. E. Perks. diag Soc Chem Ind J 43:75-7 Mr 28 '24

MURAL painting and decoration
Co-ordination between mural painting and architectural setting. Arch Rec 56:191-2 Ag '24
Decorative coverings for acoustical materials. C. B. Moulton. il Arch Forum 41:193-6 O '24
Decorative paintings as a feature of interior design. il Am Arch 127:328-30 Ap 8 '25
Decorative treatment of interior walls. A. A. Kelly. Bldg Age 45:82+ D '23
Mural paintings in the North Junior high school, Waltham, Mass. Arch Rec 57:39, 41-2 Ja '25
Painted lead panels for house of Arthur Hammerstein, Whitestone Landing, L.I., N.Y. Am Arch 127:508 Je 3 '15
Practical considerations of methods of wall treatment. M. L. King. il Am Arch 124:423-7 N 7 '23
Tapping a cupola and Pouring a mould; awarded 1925 medal for mural painting. Am Arch 127:444 My 20 '25
Wall treatments. il Am Arch 125:479-85 My 21 '24

See also Fresco painting; Interior decoration; Textone

MURDOCK, William, 1754-1839
Famous machinists of history. H. H. Manchester. por Am Mach 61:895 D 4 '24

MURIATIC acid. See Hydrochloric acid

MURPHY varnish company
Capitalizing past prestige to open new markets. F. Murphy. il Ptr Ink M 10:39-40+ Je '25

MURRAY boilers. See Boilers, Water tube

MURRAY company, Honesdale, Pennsylvania
How Father Murray took care of the boys. R. J. Murray. Ptr Ink 133:57-8+ O 29 '25

MURRAY river, Australia
Regulation of the Murray river. il diags map Engineering 119:371-4, 405-6, 469-70, 532-5, 546, 565-6, 576, pl 24-5, 30, 34 Mr 27-Ap 3, 17, My 1-8 '25

MUSCLE Shoals project
Administration turns to Underwood bill. Elec W 84:1272-3 D 13 '24
Alabama power and Muscle Shoals. Elec W 86:914 O 31 '25
All bids for Muscle Shoals will probably be rejected pending creation of Congressional committee. Power 59:841 My 20 '24
America's greatest dam. W: B: West. 2d ed., rev. 62p F. E. Cooper, 253 Broadway, New York '25
America's greatest hydroelectric power project. il Dun's Int R 44:53-4 Ja '25
Building Wilson dam at Muscle Shoals on the Tennessee. il diags plan Eng N 94:676-83, 724-9 Ap 23-30 '25
Commission named by President Coolidge to report on Muscle Shoals. Comm & Fin Chr 120:1698-9 Ap 4 '25; Elec W 85:730 Ap 4 '25
Committee for Ford offer. Elec W 83:248, 299-300 F 2-9 '24; Chem & Met Eng 30:243 F 11 '24
Committee of the American engineering council reports on Muscle Shoals. Power 59: 741 My 6 '24
Concrete work at Wilson dam, Muscle Shoals. R. P. Brown. il diag Eng & Contr (W W) 62: 61-6 Jl 9 '24

MUSCLE Shoals project—*Continued*
Coolidge on Muscle Shoals. Elec W 84:1219 D 6 '24
Dam 3 on Tennessee needed. M. C. Tyler. Eng N 93:886 N 27 '24
Definite proposition for the utilization of Muscle Shoals. Manuf Rec 88:67-70 O 15 '25
Dickinson bill on Muscle Shoals. Elec W 82: 1338-9 D 29 '23
Disagreement over Muscle Shoals impends. Elec W 86:961 N 7 '25
An editor who upholds Ford's Muscle Shoals scheme. Manuf Rec 85:107-8 Mr 6 '24
Engineer makes report on Tennessee river dam no. 2 and no. 3. Power 60:962 D 9 '24
Engineers of Wilson dam give their opinion regarding relative value of power generated there. Power 62:549 O 6 '25
Experts show utility companies' Muscle Shoals offer is far better than Ford's. Pub Serv Management 36:48-9 F '24
Facts about Muscle Shoals. M. Clary. 254p Ocean pub. co., New York '24
Government ownership under direction of army engineers preferred. N. D. Baker. Manuf Rec 85:87-8 Ap 17 '24
Government policy for sale of Muscle Shoals temporary power outlined. Power 61:1050 Je 30 '25
Henry Ford proposes government keep Muscle Shoals as nitrate plant to help farmers and safeguard country in war. Comm & Fin Chr 120:789 F 14 '25; Same. Power 61: 238 F 10 '25
Henry Ford withdraws bid for Muscle Shoals. Comm & Fin Chr 119:1921-2 O 25 '24; Elec W 84:907 O 25 '24; Power 60:670-2 O 21 '24
Hydro-electric development at the Muscle Shoals, Alabama. il diags plans Engineer 140:8-10, 12, 29-32, 38, 68-70, 82-4 Jl 3-24 '25
Der kampf um die Muscle Shoals. J. Reutter. maps Elektrotech Zeit 46:378-80 Mr 12 '25
Majority of eighty-five for McKenzie bill. Elec W 83:541 Mr 15 '24
Minority report on Muscle Shoals. Elec W 83: 348 F 16 '24
Minority views on Muscle Shoals presented to Congress; nitrate power companies' and Ford offers compared. Power 59:309 F 19 '24
Muscle Shoals. R. G. Gordon. Elec Ry J 64: 621-2 O 11 '24
Muscle Shoals and how to utilize it. T: W. Martin. Manuf Rec 88:91-2 N 5 '25; Excerpt. Power 62:707 N 3 '25
Muscle Shoals and the nitrate situation. Manuf Rec 88:89-90 Jl 16 '25
Muscle Shoals as viewed in reports to the Muscle Shoals commission. Manuf Rec 88: 91-4 Jl 2 '25
Muscle Shoals bids compared. C. C. Williams. Power 59:800 My 13 '24
Muscle Shoals bill expires. Elec W 85:524-5 Mr 7 '25; Power 61:395 Mr 10 '25
Muscle Shoals bill out of conference. Elec W 85:365 F 14 '25; Power 61:280 F 17 '25
Muscle Shoals—bonanza or white elephant? A. P. Lane. il maps Sci Am 132:293-5 My '25
Muscle Shoals commission adverse to temporary leasing of power. Power 61:969 Je 16 '25
Muscle Shoals commission in session. J: C. McKenzie. Elec W 86:761-2 O 10 '25; Excerpt. Power 62:588 O 13 '25
Muscle Shoals contest. J. A. Switzer. il Forbes 14:98-9+ Ap 26 '24
Muscle Shoals distorted in public mind. S: S. Wyer. N E L A Bul 12:531 Ag '25
Muscle Shoals government ownership bill reported to Senate favorably. Power 59:924 Je 3 '24
Muscle Shoals: hearings before the Committee on agriculture and forestry. U.S. Senate. 2v Govt. print off., Washington '24
Muscle Shoals—industry touchstone; summary of offers. J: W. Hammond. il Am Ind 25:19-23 Ag '24
Muscle Shoals offers and the men back of them. Ind Management 68:1-3 Jl '24; Excerpt (chart). Chem Age 32:286 Jl '24
Muscle Shoals one of the world's largest water powers. il maps Power 60:1046-51 D 30 '24
Muscle Shoals power will probably not be utilized before testing of generators. il Power 61:928 Je 9 '25
Muscle Shoals proposition of the Alabama power company. T: W. Martin. il map Manuf Rec 85:65-71 Ja 17 '24
Muscle Shoals question. Boston Soc C E J 11: 115-19 Mr '24
Muscle Shoals reports before Senate. Elec W 83:1196-7 Je 7 '24
Muscle Shoals should not be given to Henry Ford. Manuf Rec 85:67-73 F 14 '24
Muscle Shoals to produce by August 1. Elec W 85:1415 Je 27 '25
Muscle Shoals—what shall we do with it? C. De Kalb. Manuf Rec 88:59-61 S 24; 81-6 O 1 '25
New plan for Muscle Shoals; editorial. Chem & Met Eng 29:1173 D 31 '23
Offers for Muscle Shoals property summarized. Eng N 92:778 My 1 '24
$100,000,000 offer for Muscle Shoals. il map Min Cong J 10:83-5 F '24
Operation begins at Wilson dam to combat power shortage. Elec W 86:476 S 5 '25
Power possibilities at Muscle Shoals, Alabama. S: S. Wyer. maps Am Inst E E J 44:571-8 Je '25; Excerpts. Elec W 86:15 Jl 4 '25; Am Ind 25:12-13 Jl '25
Present status of Muscle Shoals. Elec W 84: 1172-3 N 29 '24
President Coolidge denies that he was trying to deliver Muscle Shoals to Henry Ford. Comm & Fin Chr 118:2131-4 My 3 '24
Public operation amendment defeated. Elec W 84:1321 D 20 '24
Selling a heritage for a mess of fertilizer. E. Dakin. Comm & Fin 13:437-9 F 27 '24
Senate committee hears Hooker Shoals offer. Eng N 92:741 Ap 24 '24; Elec W 83:844 Ap 26 '24
Southern power companies make offer for Muscle Shoals. Chem & Met Eng 30:67 Ja 14 '24; Elec W 83:107, 248-9 Ja 12, F 2 '24; Eng N 92:131 Ja 17 '24; Manuf Rec 85:63-4 Ja 17; 71-2 Ja 31 '24; Power 59:114, 153 Ja 15-22 '24; Power Pl Eng 28:213 F 1 '24
Statement regarding Muscle Shoals, made before House committee on military affairs. T. Saville. N E L A Bul 11:139-43 Mr '24
Suggestions as to disposition of Muscle Shoals. O. C. Merrill. Power 61:1010-11 Je 23 '25
Underwood bill is finally passed by Senate. Elec W 85:161 Ja 17 '25; Same. Power 61: 120 Ja 20 '25
Underwood Muscle Shoals bill passed by United States Senate. Comm & Fin Chr 120:537-8 Ja 31 '25
Union carbide company submits offer to manufacture fertilizer at Muscle Shoals. Manuf Rec 85:73-4 Ja 31 '24; Elec W 83:201 Ja 26 '24
Union carbide co.'s bid of $120,000,000 for 50-year lease of Muscle Shoals. Comm & Fin Chr 118:2260-1 My 10 '24; Elec W 83:976 My 10 '24; Eng N 92:823 My 8 '24
What shall we do with Muscle Shoals? R: W. Edmonds. Manuf Rec 87:77-82 Je 25 '25
Who will get Muscle Shoals? W. D. Brookings. il Nation's Business 12:30-1 N '24
Wilson dam—its cost and value. M. C. Tyler. Elec W 86:739-43 O 10 '25; Discussion. 86: 1157 D 5 '25
Wilson dam of Muscle Shoals project. il Eng & Contr (G C) 63:1109-15 My 20 '25
Wilson dam power house quantities and costs. Eng & Contr (G C) 63:828 Ap 17 '25

MUSCLES
Muscular action in work and play. G. O. Brewster. Sci Am 131:121 Ag '24
Vibration recorder and some of its applications in the study of muscle tremors. C: G. Beall and C. I. Hall. il diags Gen Elec R 27: 297-303 My '24
What causes and what cures fatigue; lactic acid controls the action of our muscles. R. L. Duffus. il Sci Am 132:10-11 Ja '25

MUSCOVITE
Studies in the mica group. A. N. Winchell. Am J Sci 5th ser 9:415-30 [bibliog. p. 424-7] My '25

MUSEUMS
See also Art galleries and museums; *also* American museum of natural history, New York city; Field museum of natural history, Chicago; London—Science museum; Los Angeles—Museum of history, science and art; Munich—Deutsches museum von meisterwerken der naturwissenschaft und technik; National museum of engineering and industry

Advertising
How a museum increased attendance by advertising. H. S. McCauley. Ptr Ink M 8: 116+ Ap '24

MUSEUMS, Industrial. See Industrial museums

MUSHROOMS
Factory methods applied to the growing of mushrooms. il Dun's Int R 45:53-4 Mr '25
Mushrooms—how to tell whether edible or poisonous. V. K. Charles. il Nation's Health 7:456-9+, 542-5 Jl-Ag '25

MUSIC
See also Color organ; Moving pictures—Musical accompaniment; Phonograph records

Acoustics and physics
Production of sub-harmonics. W. N. Bond. Philos Mag 6th ser 49:236-40, pl 4 Ja '25

MUSIC trade
Humanizing the mail order—our way to 1,400% greater volume; Belwin, incorporated. M. Winkler. il System 45:478-80+ Ap '24

MUSICAL instrument trade
Musical instrument trade. Economist 101:9-10 Jl 4 '25

Advertising
Advertising instrumentalists of the music-trades field. Ptg Art 45:49-55 Mr '25

MUSICAL instruments
World of sound. J: P. Minton. il diags Wireless Age 11:38-40 S '24
See also Drums; Harmonica; Organs; Pianos

MUSICAL pitch
Physical criterion for determining the pitch of a musical tone. H. Fletcher. Phys R 23:427-37 Mr '24

MUSKOGEE, Oklahoma
Muskogee, Okla., as an industrial city. C. C. Lydick. il Manuf Rec 88:88-92 O 1 '25

MUSTARD gas
Hydrolysis of ββ′-dichlorodiethyl sulphide and action of hydrogen halides on divinyl sulphide. S. H. Bales and S. A. Nickelson. Chem Soc J 123:2486-9 O '23
Interaction of ββ′-dichlorodiethyl sulphide, sulphoxide, and sulphone with glycine ester and with potassium phthalimide. A. E. Cashmore and H. McCombie. Chem Soc J 123: 2884-90 N '23
Invention of mustard gas. Chem Age (Lond) 9:657 D 15 '23
Mustard gas claim. Chem Age (Lond) 9:686; 10:62-3, 92-3, 112-14, 134-6 D 22 '23, Ja 19-F 9 '24
No award in the Levinstein-Green claim. Chem Age (Lond) 10:191 F 23 '24
Reactions of β,β′-dichloro-ethyl sulfide with amino compounds. W. E. Lawson and E. E. Reid. Am Chem Soc J 47:2821-36 N '25

MUSTARD oils
Action of hydroxylamine and of hydrazine on the aryl monothio amides of carbethoxy-ethylmalonate. D: E. Worrall. Am Chem Soc J 45:3092-5 D '23
Addition of sodium ethylaceto-acetate to substituted aromatic mustard oils. D: E. Worrall. Am Chem Soc J 46:2834-8 D '24
Halogen-substituted aryl thiocarbimides. F: D. Chattaway, R: K. Hardy and H. G: Watts. Chem Soc J 125:1552-5 Ag '24
Researches on amines; some chemical properties of amino-aceto-phenylanilide. E. B. Kelsey. Am Chem Soc J 46:1693-1700 Jl '24

MUTAROTATION. See Optical rotation

MUTUAL benefit life insurance company of Newark, New Jersey
Annual statements of insurance companies. Econ W n s 27:171 F 2 '24

MUTUAL inductance
Formulas, tables, and curves for computing the mutual inductance of two coaxial circles. H. L. Curtis and C. M. Sparks. chart U S Bur Stand Sci Pa 492:541-76 '24
Tables for the calculation of the mutual inductance of circuits with circular symmetry about a common axis. F. W. Grover. U S Bur Stand Sci Pa 498:1-18 '24

MUTUAL oil company
Financial statements as of June 30, 1924. Comm & Fin Chr 119:1409 S 20 '24

MYCENAE, Greece
Mycenae, the city of Agamemnon, as brought to light by archaeologists. il Sci Am 129: 409 D '23

MYRICETIN
Attempts to snythesize myricetin. H. F. Dean and M. Nierenstein. Am Chem Soc J 47: 1676-84 Je '25
Synthesis of myricetin and of a galangin monomethyl ether occurring in galanga root. J. Kalff and R. Robinson. Chem Soc J 127:181-4 Ja '25

N

NACRE. See Mother-of-pearl

NAILS
Ships nails in boxes; Mexican plant builds up flourishing business by studying its market. Iron Age 116:1056 O 15 '25

Manufacture
British wire-drawing and wire-working machinery. il diags Engineer 138:577-8 N 21 '24
Story of steel. il plan Sci Am 131:252-3+ O '24

NAMES, Business
Identifying features of the retail sales place. J. F. Pyle. Univ J of Business 2:414-27; 3: 82-97 S-D '24
See also Trade names

NAMES, Corporate. See Corporate names

NAMES, Trade. See Trade names

NANCE tree
Dye and tannin from the nance tree. C. D. Mell. Textile Col 47:110-11 F '25

NANCY, France
Planned cities. H. J. Birnstingl. il Am Inst Arch J 12:301-8 Jl '24

NANKING, China. University
University of Nanking, China. il plans Am Arch 127:55-64 Ja 28 '25

NAPHTHA
Corrosion effect of naphtha solutions of sulfur and sulfur compounds. A. E. Wood, C. Sheely and A. W. Trusty. Ind & Eng Chem 17:798-802 Ag '25
Vapor pressures of gasolines and light petroleum naphthas. F. H. Rhodes and E. B. McConnell. diag Ind & Eng Chem 15:1273-5 D '23

NAPHTHALENE
Benzole extraction and naphthalene; solubility and vapour pressure of the naphthalene. K. Bunte and H. Pippig. diag Gas J (Lond) 165:203-4 Ja 23 '24
Bromo-alpha-naphthols and the orientation of certain classes of disubstituted naphthalene derivatives. R. C. Fuson. Am Chem Soc J 47:516-18 F '25
Chemical and material markets in 1923. Chem & Met Eng 30:113 Ja 21 '24

NAPHTHALENE—*Continued*
Effect of various factors upon the velocity of crystallization of substances from solution. J: D. Jenkins. diags Am Chem Soc J 47: 903-22 Ap '25
Effects of indene on naphthalene determinations by picric acid. R. L. Brown and H. G. Berger. bibliog Ind & Eng Chem 16:917-21 S '24
Hydrogenation in the naphthalene series; the properties of derived azo dyes. F. M. Rowe and V. J. Tarbett. Soc Dyers & Col J 41: 5-8; Discussion. 8-10 Ja '25
Infra-red absorption spectrum of molten naphthalene. F: K. Bell. Am Chem Soc J 47: 2811-16 N '25
Naphthalene. H. P. Lupton. Gas J (Lond) 165:262-5 Ja 30 '24
Naphthalene and the centroid structure. R. C. Fuson. Am Chem Soc J 46:2779-88 D '24
Naphthalene; its deposition from coal gas. W. I. Ineson. Gas J (Lond) 164:835-8 D 26 '23
Naphthalene steadier on smaller surplus, 1924. Chem & Met Eng 32:136-7 Ja 19 '25
Naphthalenesulfonic acids. J. A. Ambler, D. F. J. Lynch and H. L. Haller. diag Ind & Eng Chem 16:1264-6 D '24
Part which naphthalene plays in the azo and other dyestuffs. W. B. Nelson. Am Dyestuff Rep 13:485-8+ Jl 28 '24
Recent experiences with extraction of naphthalene, corrosion of mains, and caking of sulphate of ammonia. B. Richardson. Gas J (Lond) 164:515-16 N 21 '23
Removal of naphthalene from gas by oil scrubbing. R. D. Pike and G: H. West. il diag Ind & Eng Chem 16:253-7 Mr '24; Same. Gas Age 53:385-9 Mr 29 '24
Space formulæ of benzene, naphthalene, and anthracene. B. Orelkin. Chem Soc J 124 pt 1:1082-3 N '23
Sur l'oxydation des houilles et de leurs extraits naphtaléniques. M. Oswald and R. Pinta. Chimie & Ind 13:548-51 Ap '25
Sur le traitement des houilles par la naphtaline. M. Oswald and R. Pinta. diag Chimie & Ind 12:415-22 S '24
Variation with pressure of the boiling points of naphthalene, benzophenone and anthracene. J. L. Finck and R. M. Wilhelm. Am Chem Soc J 47:1577-82 Je '25
See also Nitronaphthalenes

Analysis
Analysis of naphthalenesulfonic acids and naphthalene. W. S. Calcott, F. L. English, and F. B. Downing. Ind & Eng Chem 16:27-30, 1190 Ja, N '24

NAPHTHALENEDISULFONATES
Arylamine salts of the naphthalenesulphonic acids; the salts of 2.6- and 2.7-naphthalenedisulphonic acids. R. B. Forster and C. M. Keyworth. Soc Chem Ind J 43:165-8 My 30 '24

NAPHTHALENESULFONIC acids
Analysis of naphthalenesulfonic acids and naphthalene. W. S. Calcott, F. L. English, and F. B. Downing. Ind & Eng Chem 16:27-30, 1190 Ja, N '24
Arylamine salts of the naphthalenesulphonic acids; the salts of α- and β-napthalenesulphonic acids. R. B. Forster and C. M. Keyworth. Soc Chem Ind J 43:299-303 O 3 '24
Arylamine salts of the naphthalenesulphonic acids; the salts of 2.6- and 2.7-naphthalenedisulphonic acids. R. B. Forster and C. M. Keyworth. Soc Chem Ind J 43:165-8 My 30 '24
Benzylpseudothiourea salts of naphthalenesulfonic acids. R. F. Chambers and P. C. Scherer. Ind & Eng Chem 16:1272-3 D '24
Elimination of soluble tar from sulfonation masses. J. A. Ambler and D. F. J. Lynch. Ind & Eng Chem 17:61-2 Ja '25
Naphthalenesulfonic acids; sulfonation of naphthalene in the vapor phase. J. A. Ambler, D. F. J. Lynch and H. L. Haller. diag Ind & Eng Chem 16:1264-6 D '24
Naphthalenesulfonic acids; the quantitative estimation of 2,6- and 2,7-naphthalenedisulfonic acids. H. L. Haller and D. F. J. Lynch. Ind & Eng Chem 16:273-5 Mr '24

NAPHTHALENESULFONYLALANINES
α- and β-naphthalenesulphonylalanines. W: M. Colles and C: S. Gibson. Chem Soc J 125:2505-10 D '24

NAPHTHALIC acid
Derivatives of 1:8-naphthalic acid; the preparation and properties of 1-benzoylnaphthalene-8-carboxylic acid and its derivatives. F: A. Mason. Chem Soc J 125:2119-23 O '24
Derivatives of 1:8-naphthalic acid; the preparation and properties of 1:8-naphthalyl chloride. F: A. Mason. Chem Soc J 125:2116-19 O '24
Preparation of naphthalic acid by oxidation of acenaphthaquinone. J: R. H. Whiston. Soc Chem Ind J 43:370 D 26 '24

NAPHTHALYL chloride
Derivatives of 1:8-naphthalic acid; the preparation and properties of 1:8-naphthalyl chloride. F: A. Mason. Chem Soc J 125:2116-19 O '24

NAPHTHAZARINE
Naphthazarine (5:6-dioxy-1:4-naphthoquinone). G. Charrier and G. Tocco. Chemicals (Dyestuffs sec) 17:35 Ag 17 '25

NAPHTHENES
Determination of naphthenes in petroleum spirits. W. R. Ormandy and E. C. Craven. Inst Pet Tech J 10:101-4 F '24

NAPHTHENIC acids
Naphthenic acids derived from Nishiyama petroleum. Y. Tanaka and S. Nagai. Am Chem Soc J 47:2369-71 S '25

NAPHTHOL AS
Colloid chemical researches on naphthol AS. J. Rath. Soc Dyers & Col J 39:334-6; Discussion. 336-8 N '23
Development of ice colors. R. E. Rose. Am Dyestuff Rep 14:17-21 Ja 12 '25
Le naphthol AS. M. Battegay, C: Langjahr and P. Rettig. Chimie & Ind 11:453-5 Mr '24; Abstract. Soc Dyers & Col J 40:263-4 Ag '24
New colors on cotton from naphthol AS. Color Tr J 14:56 F '24
New developments in naphthol AS. E. J. Rath. Am Dyestuff Rep 14:426-8; Discussion. 428-31 Je 29 '25
New developments in the use of naphthol AS. S. Rath. Am Dyestuff Rep 13:581-4 S 8 '24
Newest wrinkles in cotton dyeing. J. M. Matthews. Chemicals (Dyestuffs sec) 17:1-3 Jl 20 '25
Substantive action of the naphthols of the AS series. H. Guertler. Am Dyestuff Rep 13:81-4 F 11 '24

NAPHTHOL sodium sulfonate indophenol
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; 1-naphthol-2-sodium sulfonate indophenol. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:2232-6 Ag '25

NAPHTHOLAURIN
α-Naphtholaurin; a method for detecting small quantities of α-naphthol in the presence of β-naphthol. J: E. Driver. Soc Chem Ind J 43:206 Jl 4 '24

NAPHTHOLS
α-Naphtholaurin; a method for detecting small quantities of α-naphthol in the presence of β-naphthol. J: E. Driver. Soc Chem Ind J 43:206 Jl 4 '24
Detection and determination of small amounts of α-naphthol in β-naphthol. T. Callan. Soc Chem Ind J 44:125-7 Mr 20 '25; Abstract. Chem Age (Lond) 12:155 F 14 '25
Determination of alpha-naphthol and beta-naphthol. Color Tr J 15:9 Jl '24
Developing diazotized colors with beta-naphthol. Textile Col 47:451-2 Jl '25

NAPHTHOLS—*Continued*
Identification of insoluble azo colours on the fibre, and of azo pigments in substance. F. M. Rowe and C. Levin. Soc Dyers & Col J 40:218-28 Jl '24
Manufacture of beta-naphthol. R. N. Shreve. Color Tr J 14:42-7 F '24
See also Bromonaphthols; Naphthol AS; Nitronaphthols

NAPHTHOQUINONE
Naphthoquinone derivatives; abstract. A. Wahl and R. Lantz. Soc Dyers & Col J 40: 338 O '24
Reduction potentials of quinones; the potentials of certain derivatives of benzoquinone, naphthoquinone and anthraquinone. J. B. Conant and L. F. Fieser. diag Am Chem Soc J 46:1858-81 Ag '24

NAPHTHYRIDINE
Synthetical experiments in the naphthyridine groups. J. M. Gulland and R. Robinson. Chem Soc J 127:1493-1503 Jl '25

NAPLES
Harbor
Les travaux d'agrandissement et d'amélioration du port de Naples. P. Boudreaux. il diags plan Génie Civil 86:621-4 Je 27 '25

NARCONDAM
Lavas of Barren Island and Narcondam. H. S. Washington. il Am J Sci 5th ser 7:441-56 Je '24

NARCOTICS
See also Opium
Law
Narcotic law status of medicines is explained. Oil Paint & Drug Rep 108:21 Jl 13 '25

NASH, Charles W.
To succeed—deal sincerely with men, watch factory overhead—says Chas. W. Nash. N. G. Shidle. pors Automotive Ind 52:1012-15 Je 11 '25

NASHVILLE, Tennessee
Engineering in the small city. Eng N 95:173-4 Jl 30 '25
Nashville: its past and present reviewed by its Chamber of commerce. T: W. Fletcher. il Manuf Rec 86:67-74 S 11 '24
New day in Nashville. G: H. Armistead. il Comm & Fin 14:1325+ Jl 8 '25

NASHVILLE, Chattanooga and St Louis railway
Annual report, 74th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2542-3 My 16 '25
Improvement work on the Nashville, Chattanooga & St Louis Ry. il Ry R 73:820-1 D 8 '23

NASHVILLE industrial corporation
Settlement of the Old Hickory suit. Chem & Met Eng 30:367, 836-7 Mr 3, My 26 '24

NASMYTH, James, 1808-1890
Famous machinists of history. H. H. Manchester. Am Mach 61:816 N 20 '24

NATIONAL academy of sciences
Engineers elected to Academy of sciences. Mech Eng 47:520 Je '25

NATIONAL advertising. See Advertising, National

NATIONAL advertising commission
Annual meeting, Chicago. Ptr Ink 129:105-8 O 23 '24
Departmental reports at St Louis meeting. Ptr Ink 133:68 O 15 '25
National advertising commission discusses postal matters. Ptr Ink 130:57-8 F 5 '25

NATIONAL advisory committee for aeronautics. See United States—National advisory committee for aeronautics

NATIONAL aeronautic association of the United States of America
N.A.A. and the A.C.C.A.; closer cooperation is desirable. Aviation 16:591-2 Je 2 '24
National convention, 2d, Dayton, Oct. 2-4. Aviation 17:1154-60 O 20 '24
Organization policy of the N.A.A. W. F. Fullam. Aviation 16:363 Ap 7 '24
Program of N.A.A. Aviation 18:640-1 Je 8 '25

NATIONAL agricultural credit corporations. See Agricultural credit

NATIONAL air transport, inc.
National air transport organized. il Aviation 18:598-600 Je 1 '25

NATIONAL association for the advancement of colored people
Attitude of National association for the advancement of colored people in regard to organized labor. Monthly Labor R 19:678-9 S '24

NATIONAL association of brass manufacturers
Annual convention, 35th, New York, Dec. 13. Sanitary & Heat Eng 100:437-8 D 28 '23; Metal Ind 22:22 Ja '24
Annual meeting, New York, December 11. Sanitary & Heat Eng 102:469 D 26 '24

NATIONAL association of casualty and surety agents
Joint convention with International association of casualty and surety underwriters. White Sulphur Springs, W. Va. Spectator 113:7+ O 2 '24
National association of casualty and surety agents. T: E. Braniff. Spectator 113:76+ sec 2 Jl 17 '24

NATIONAL association of cost accountants
Annual conference, 5th, September 22-25. Management & Adm 8:413-16 O '24

NATIONAL association of cotton manufacturers
Annual convention, Boston, Nov. 12-13. Textile World 66:2793-4+, 2816a+ N 15 '24
Annual convention, Boston, Oct. 14-15. Textile World 68:2305-8+ O 17 '25
Semi-annual meeting, Boston, April 30-May 1. Textile World 65:2951-2+ My 3 '24
Semi-annual meeting, Washington, April 6-8. Textile World 67:2493+, 2521-2+ Ap 11 '25

NATIONAL association of credit men
Annual meeting in Washington. Iron Age 115: 1171-2 Je 18 '25
Economic self-government. H. Hoover. Credit M 27:10+ Jl '25
Education and economics. E. S. Elkus. Credit M 27:11-12 Jl '25
First credit convention, 1896. H. B. Gillespie. Credit M 7:12 Je '25
No counterpart in Europe. E. B. Filsinger. Credit M 27:23+ Jl '25
Our high-calibre men inspiring and helpful as friends. A. J. Peoples. Credit M 7:22 Je '25
Twenty-nine years ago. T. H. Green. Credit M 7:15+ Je '25

NATIONAL association of employing lithographers
Annual convention, Del Monte, Calif., June 3-5. Ptr Ink 127:153-4 Je 12 '24
Annual convention, 20th, Briarcliff Manor, New York, May 20. H. Hillman. Inland Ptr 75:396-7 Je '25

NATIONAL association of farm equipment manufacturers
Annual convention, 31st, Chicago, Oct. 22-24. Iron Age 114:1147-8 O 30 '24
Annual convention, 32d, Chicago, Oct. 28-30. Iron Tr R 77:1183-4 N 5 '25; Iron Age 116: 1261-2 N 5 '25

NATIONAL association of finance companies
Organization meeting, Chicago, Dec. 8-12. Automotive Ind 51:1040-1 D 18 '24; Comm & Fin Chr 119:2826-7 D 20 '24

NATIONAL association of hosiery and underwear manufacturers
Convention, Philadelphia, April 8. Textile World 67:2543+ Ap 11 '25
Exhibition and convention, Philadelphia, April 8-9. Textile World 65:2471+ Ap 12 '24
President's annual address. J. H. Zens. Textile World 67:2553+ Ap 11 '25

NATIONAL association of ice industries
Annual convention, 6th, Cleveland, Nov. 13-16. Refrig W 58:13-26 N '23
Annual convention, 7th, Chicago, Oct. 28-31. Refrig W 59:13-34 N '24
Report to American association of ice and refrigeration. Refrig W 59:23-4 Ap '24

NATIONAL association of insurance agents
Annual convention, 29th, Milwaukee, Wis. Spectator 113:3+ S 18 '24
Meeting at Kansas City. Spectator 115:59+ O 8 '25
National association of insurance agents. F. R. Bell. Spectator 113:69-70 sec 2 Jl 17 '24

NATIONAL association of legal aid organizations
National association of legal aid organizations. J: S. Bradway. U S Bur Labor Statistics Bul 385:114-23; Discussion. 124-8 '25

NATIONAL association of life underwriters
Accomplishments of the year. J: W: Clegg. Spectator 115:7 O 8 '25
Annual convention, 35th, Los Angeles, Cal. Spectator 113:3-4 Jl 31 '24
National association of life underwriters. G. C. Wells. Spectator 113:53-5+ sec 2 Jl 17 '24

NATIONAL association of manufacturers of the United States of America
Annual convention, 29th, New York, May 19-21. Am Ind 24:5-48 Je '24; Am Mach 60:830c My 29 '24; Manuf Rec 85:68-72 My 29 '24
Generation of trade promotion. Am Ind 25: 39-40+ Ja '25

NATIONAL association of master plumbers
Accomplishments of 1924. J: J. Vogelpohl. Sanitary & Heat Eng 102:438-9 D 26 '24
Annual convention, 42d, West Baden, June 24-26. Dom Eng 108:59-86+ Jl 5 '24; Sanitary & Heat Eng 101:413-31+ Je 27 '24
Annual convention, 43d, Portland, Ore., June 23-25. Dom Eng 112:48-64+ Jl 4 '25; Sanitary & Heat Eng 104:2-7 Jl 10 '25
Educational committee. F: E. Fladd. Dom Eng 110:67+ Ja 10 '25
National women's auxiliary. Dom Eng 110:124 Ja 10 '25
National women's auxiliary accomplishments at 7th annual convention. Sanitary & Heat Eng 104:19 Jl 10 '25; Dom Eng 112:91+ Jl 4 '25
Report of educational committee. Sanitary & Heat Eng 104:17-18 Jl 10 '25
Report of national president, John J. Vogelpohl. Sanitary & Heat Eng 104:8-10+ Jl 10 '25

NATIONAL association of paint distributors
Annual convention, 10th, Pittsburgh, Feb. 25-27. Oil Paint & Drug Rep 105:19+ Mr 10 '24
Annual convention, 11th, New York, Feb. 23-25. Oil Paint & Drug Rep 107:20 Mr 2 '25

NATIONAL association of plumbing and heating salesmen
Formation. Sanitary & Heat Eng 104:264-5 O 16 '25

NATIONAL association of practical refrigerating engineers
Annual convention, 15th, New Orleans, Nov. 11-14. Power 60:858 N 25 '24; Refrig W 59: 25-6 D '24

NATIONAL association of purchasing agents
Annual convention, 9th, Boston, May 19-23. Iron Age 113:1569+ My 29 '24; Iron Tr R 74:1444-5 My 29 '24
Annual convention, 10th, Milwaukee, May 25-28. Iron Age 115:1626-30 Je 4 '25; Iron Tr R 76:1498-9 Je 4 '25

NATIONAL association of railroad tie producers
Annual convention, 6th, Kansas City, Mo., Jan. 17-18. il Ry Age 76:289-93 Ja 26 '24; Ry R 74:172-4 Ja 26 '24
Annual convention, 7th, Chicago, Feb. 5-6. Ry Age 78:415-20 F 14 '25; Ry R 65:303-4 F 14 '25

NATIONAL association of railway and utilities commissioners
Annual meeting, 35th, Miami, Florida, Dec. 4-7. Elec W 82:1186 D 8 '23; Ry Age 75:1067-9, 1117-23 D 8-15 '23
Annual convention, 36th, Phoenix, Ariz., Nov. 11-14. Ry Age 77:935-9 N 22 '24; Elec Ry J 64:889-90 N 22 '24
Annual convention, 37th, Washington, Oct. 13-16. Ry Age 79:711-15, 755-6 O 17-24 '25; Elec Ry J 66:748-50 O 24 '25; Elec W 86:812 O 17 '25

NATIONAL association of sheet metal contractors
Annual convention, 20th, Washington, D.C., June 17-20. Sheet Metal Worker 15:467-72+ Jl 4 '24
Convention, Atlanta, June 23-26. Sheet Metal Worker 16:416-21+ Jl 3 '25

NATIONAL association of stationary engineers
Annual convention, 42d, Grand Rapids, Sept. 8-12. Power 60:473-6 S 16 '24; Power Pl Eng 28:1026-9 O 1 '24
Annual convention, 43d, St Paul, Aug. 31-Sept. 4. Power 62:386-7 S 8 '25; Power Pl Eng 29:1024-7 O 1 '25

NATIONAL association of woolen and worsted overseers
Annual meeting, 40th, Boston, Nov. 3. Textile World 64:2859 N 10 '23
Annual meeting, 41st, Boston, Nov. 15. Textile World 66:2968+ N 22 '24
Semi-annual convention, 41st, Rocky Point, R. I., May 17. Textile World 65:3419 My 24 '24
Semi-annual meeting, 42d, Rocky Point, R.I., May 16. Textile World 67:3407 My 23 '25

NATIONAL association of worsted and woolen spinners
Annual meeting, 7th, New York, May 14. Textile World 65:3285-8 My 17 '24
Annual meeting, 8th, New York. Textile World 67:3269-74 My 16 '25
4th annual outing, Sept. 29. Textile World 66:1859 O 4 '24

NATIONAL automobile chamber of commerce
Bus regulation arouses lively interest at Midwest motor transport conference, Chicago, May 27-28. Elec Ry J 65:897-9 Je 6 '25
Mid-west transport conference, Chicago, May 27-28. Ry R 76:967-8+ My 30 '25; Ry Age 78: 1407-10, 1467-70 Je 6-13 '25; Automotive Ind 52:975-7 Je 4 '25; Bus Transportation 4:296-9 Je '25
What is the job of the trade association? A. Reeves. Ann Am Acad 116:264-6 N '24

NATIONAL automobile dealers association
Annual meeting, Chicago, Jan. 26-29. Automotive Ind 52:213-14 F 5 '25

NATIONAL automotive parts association
Organization formed for the promotion of better merchandising methods. Automotive Ind 52:755 Ap 23 '25

NATIONAL automotive service convention
Automotive service convention, Detroit, May 19-22, 1924. Automotive Ind 50:1175-80 My 29 '24; Soc Auto Eng J 14:575-7 Je '24
Automotive service convention, Detroit, May 20-25, 1925. Automotive Ind 52:944-7 My 28 '25; Soc Auto Eng J 16:553-7 Je '25

NATIONAL better business bureau of the Associated advertising clubs of the world
Better business bureaus become national body. Ptr Ink 131:78 My 21 '25
National better business bureau gets under way. Ptr Ink 132:44 Ag 20 '25

NATIONAL better business commission
Machinery of organized truth-in-advertising work. Ptr Ink 129:120+ D 25 '24

NATIONAL biscuit company
Fair sales practice defined; decision of Supreme court in National biscuit case. Index p 3-4 N '24
National biscuit company's selling plan on trial. Ptr Ink 125:10+ D 20 '23

NATIONAL board for jurisdictional awards in the building industry
Important awards on jurisdiction. A. W. Dickson. Eng & Contr (Bldgs) 63:178 Ja 28 '25

NATIONAL board of fire underwriters
Annual meeting, 58th, May 22. W. E. Mallalieu. Spectator 113:33-4+ sec 2 Jl 17 '24
National board of fire underwriters. Spectator 112:4+ Je 5 '24
Relations of the National board of fire underwriters and its members to the American public. H. A. Smith. Econ W n s 27:777-80 My 31 '24

NATIONAL boll weevil control association
Working organization perfected. Comm & Fin Chr 117:2287-8 N 24 '23

NATIONAL bureau of casualty and surety underwriters
National bureau of casualty and surety underwriters. J. S. Phillips. Spectator 113:28+ sec 2 Jl 17 '24

NATIONAL bureau of economic research
National economic service. Special Lib 16:232 Jl '25

NATIONAL business and financial library
What we are planning for the National business and financial library. A. L. Rose. Special Lib 15:198-200 O '24

NATIONAL cash register company, Dayton, Ohio
Drilling parts for cash registers. L. S. Love. il Iron Age 115:1113-17 Ap 16 '25
How N.C.R. agency made record percentage gain. W: S. Dutton. Forbes 13:377-8 Ja 5 '24
How the N.C.R. keeps on breaking records. F: B. Patterson. Forbes 15:758-9+ Mr 15 '25
How the National cash register company selects salesmen. F. B. Patterson. Ptr Ink M 11:21-2+ Ag '25
Human factors at cash register plant. il Iron Age 113:843-7 Mr 20 '24
John H. Patterson, pioneer in industrial welfare. S: Crowther. 364p Doubleday '23
Manufacturing methods in making the National cash register. L. S. Love. il Iron Age 112:531-2, 677-81, 1105-9, 1639-43 Ag 30, S 13, O 25, D 20 '23
Which companies have the lowest labor turnover in America? H. G. Sisson. Forbes 16: 453+ Jl 1 '25

NATIONAL chain store grocers' association
Annual convention, 4th, Atlantic City, Oct. 1-2. Ptr Ink 129:33-4+ O 9 '24

NATIONAL characteristics
Race psychology and industry. C. O. Weber. il Credit M 27:12-13 S '25

NATIONAL City bank
Capital increase, National City bank. Nat City Bank p 1-2 Ja '25

NATIONAL coal association
Coal men plan to establish data bureau. Ptr Ink 131:147+ Je 25 '25
Convention, Cincinnati, Ohio, May 14-16. Coal Age 25:770-1 My 22 '24; Min Cong J 10:248-50 Je '24
Meeting, Chicago, June 17-19. R. D. Hall. Coal Age 27:931-6 Je 25 '25

NATIONAL coast anti-pollution league
2d annual meeting, Atlantic City, Oct. 1-3, 1923. S. H. Phinney, ed. 268p National coast anti-pollution league, 606 Am. mechanic bldg., Trenton, N.J. '24

NATIONAL concrete stave silo association
8th annual convention, Chicago, December 4-5. Concrete 24:18-19 Ja '24

NATIONAL conference on outdoor recreation
National conference on outdoor life opening in Washington May 22. Comm & Fin Chr 119:162 Jl 12 '24
National conference on outdoor recreation. Monthly Labor R 20:691-3 Mr '25

NATIONAL conference on street and highway safety
Insurance recommendations. A. R. Marsh. Econ W n s 28:884 D 20 '24
Street and highway safety; National conference formulates comprehensive recommendations. Soc Auto Eng J 16:53-8+ Ja '25; Eng N 93:1038-42; 94:15-20 D 25 '24-Ja 1 '25; Automotive Ind 51:1073-7 D 25 '24; Elec Ry J 64:1042-4 D 20 '24; Bus Transportation 4: 35-8 Ja '25; Aera 13:1020-7 Ja '25; Nat Safety N 11:19-21 Ja '25; Pub Works 56:29-30 Ja '25; Safety Eng 49:6-8+ Ja '25; Good Roads 68:54-7, 88 F-Mr '25
Street and highway safety; progress report of work committees for second National conference. Eng & Contr (R & S) 64:48-9 Jl 1 '25
Summaries of eight reports. Eng & Contr (R & S) 63:39-48 Ja 7 '25
Work of National conference on street and highway safety. A. B. Barber. Elec Ry J 66:617 O 10 '25

NATIONAL conference on utilization of forest products
Conference, Washington, D.C., Nov. 19-20. Coal Age 26:764 N 27 '24; Paper Tr J 79:21-3 N 27 '24; Ptr Ink 129:95-6+ N 27 '24; Chem & Met Eng 31:857-9 D 1 '24; Manuf Rec 86:71-2 N 27 '24
Report, November 19-20, 1924. il U S Agric Misc Circ 39:1-100 Ap '25
Report of committee on permanent organization. Ry R 75:878-9 N 29 '24

NATIONAL container association
Annual convention, New York, Nov. 20-21. Paper Tr J 77:30 D 6 '23

NATIONAL convention of insurance commissioners
Convention, Seattle, Wash. Spectator 113:3+ Ag 7 '24
National convention of insurance commissioners. H: D. Appleton. Spectator 113:61-2+ sec 2 Jl 17 '24

NATIONAL council of business mail users
Chicago conference starts postal revision move. Ptr Ink 131:57-8 Ap 23 '25

NATIONAL council on compensation insurance
National council on compensation insurance. W: Leslie. Spectator 113:70-3 sec 2 Jl 17 '24

NATIONAL dairy council
Getting advertising harmony in a widely scattered industry. Ptr Ink 129:136+ O 9 '24

NATIONAL defense day
Defense day and what it means. W: Weigel. Am Ind 25:13-14 S '24
National defense day—opposition thereto of Gov. Bryan of Nebraska—purpose explained by President Coolidge. Comm & Fin Chr 119:654-8 Ag 9 '24

NATIONAL distribution conference
Conference, Washington, Jan. 14-15. Ptr Ink 130:163 Ja 22 '25; Iron Age 115:287-8 Ja 22 '25; Iron Tr R 76:354 Ja 29 '25

NATIONAL distributors' association
How spot stock can strengthen the selling machine. G. A. Nichols. Ptr Ink 126:17-20 Ja 3 '24

NATIONAL district heating association
Annual convention, 15th, New York, June 10-12. Heat & Ven 21:76-80 Jl '24
Annual convention, 16th, West Baden, Ind., May 19-22. Dom Eng 111:45+ My 30 '25; Power Pl Eng 29:666-7 Je 15 '25; Heat & Ven 22:69-73 Je '25

NATIONAL drainage congress
Annual meeting, 12th, St Louis, Jan. 16-17. Eng N 92:213 Ja 31 '24
Annual meeting, 13th, Chicago, Jan. 5-7. Eng N 94:128 Ja 15 '25

NATIONAL electric light association
Annual convention, 47th, Atlantic City, May 19-23. Elec W 83:1043-96 My 24 '24; Power 59:879-81 My 27 '24; N E L A Bul 11:323-57 Je '24; Power Pl Eng 28:675-6 Je 15 '24
Annual convention, 48th, San Francisco, June 15-19. Elec W 85:1302-55 Je 20 '25; Eng N 94:1073+ Je 25 '25; J Elec 55:3-24 Jl 1 '25; N E L A Bul 12:405-58 Jl '25
Commercial man's responsibility in public service. W. R. Putnam. Pub Serv Management 38:166-7 Je '25
Convention articles, addresses, and historical sketches of geographic divisions. N E L A Bul 12:619-60 O '25
Electric light and power industry. F. T. Griffith. Elec J 22:239-42 Je '25
National electric light association. W. H. Johnson. Elec J 21:183-5 My '24
N.E.L.A. in 1885. il N E L A Bul 12:94-100 F '25
N.E.L.A. in 1925. M. H. Aylesworth. il chart N E L A Bul 12:101-6 F '25
N.E.L.A. technical men adopt program. Elec W 84:1018 N 8 '24

NATIONAL electric light association—*Cont.*
Presidents of the N.E.L.A. N E L A Bul 12: 81-93 F '25
Relation of the National electric light association to the electrical industry. E. M. Herr. N E L A Bul 12:73+ F '25
Summary of reports of the technical national section of the N.E.L.A. H. P. Liversidge. Elec J 21:185-8 My '24
Work of the technical national section. H. P. Liversidge. Elec J 22:246-8 Je '25
Year's achievement of the N.E.L.A. M. H. Aylesworth. N E L A Bul 11:420-3 Jl '24

Pacific Coast division
Activities of the commercial section, reported at meeting at Fresno, Cal., April 3-4. J Elec 54:299-303 Ap 15 '25
Annual convention, 8th, Coronado Beach, Cal., June 17-20. Elec W 83:1297, 1345-6 Je 21-28 '24; J Elec 52:381-465; 53:7-17 Je 1, Jl 1 '24
Committee reports. J Elec 54:387-534 Je 1 '25
Technical section meeting of the Pacific coast electrical association, Los Angeles, Sept. 23-25. J Elec 55:310-12 O 15 '25

Rocky Mountain division
Annual convention, 22d, Glenwood Springs, Colo., Sept. 14-17. J Elec 55:243-7 O 1 '25

NATIONAL electrical code
Changes in the National electrical code. C. W. Mitchell. J Elec 51:212-13, 292-3, 372-4; 52:15-16, 124-5 S 15, O 15, N 15 '23, Ja 1, F 15 '24
National electrical code for 1925 approved by A. E. S. C. Elec W 86:211 Ag 1 '25
National electrical code in diagram. Elec W 84:1381 D 27 '24
1923 National electrical code errata are announced. J Elec 52:175 Mr 1 '24
Questions and answers on the new electrical code. C. W. Mitchell. J Elec 52:137, 328 F 15, My 1 '24
Summary of the recent changes made in National electrical code. G. A. Van Brunt. Ind Eng 83:529-31 N '25
Super-standard electrical code—the underwriter's viewpoint. F. J. T. Stewart. Elec W 82:990-1 N 10 '23; Discussion. J: A. Hoeveler. 83:383 F 23 '24
Wiring code not changed. Elec W 85:486 F 28 '25; J Elec 54:254 Ap 1 '25

NATIONAL electrical safety code
Changes in electrical safety code. Elec W 85: 788 Ap 11 '25; Nat Safety N 12:41 Ag '25

NATIONAL enameling and stamping company, incorporated
Annual report for year ending December 31, 1924. Comm & Fin Chr 120:971 F 21 '25

NATIONAL erectors' association
Attack on the erectors fails. W. Drew. Am Ind 24:40 N '23

NATIONAL exposition of power and mechanical engineering
National exposition, 2d, New York. Power 58: 904-9, 949-54 D 4-11 '23; Power Pl Eng 28: 102-17 Ja 1 '24; Iron Age 112:1589 D 13 '23
National exposition, 3d, New York, Dec. 1-6. Blast F & Steel Pl 12:563-5; 13:29-30 D '24-Ja '25; Chem & Met Eng 31:1014-17 D 29 '24; Iron Tr R 75:1584-5 D 11 '24; Paper Tr J 79: 25-7 D 11 '24; Power 60:899-904, 940-8 D 2-9 '24; Textile World 66:3286 D 6 '24; Power Pl Eng 29:98-115 Ja 1 '25

NATIONAL fertilizer association
New national fertilizer association is formed by merger of old organizations. Oil Paint & Drug Rep 107:21+ Je 15 '25
New organization with same name takes over body formed in 1876. G. Ober, jr. Oil Paint & Drug Rep 107:50+ Je 15 '25

NATIONAL fire protection association
Annual meeting, 28th, Atlantic City, May 13-15. Safety Eng 47:271-82 Je '24
Annual meeting, 29th, Chicago, May 12-14. Safety Eng 49:244-6 Je '25
National fire protection association. P. Bugbee. Spectator 113:38+ sec 2 Jl 17 '24
Outline of reports to be presented at 29th annual meeting. Safety Eng 49:143-6 Ap '25

NATIONAL fire waste council
Fall meeting, Washington, Sept. 26. Spectator 113:13-14 O 2 '24; Econ W n s 28:492-3 O 4 '24

NATIONAL foreign trade convention
Annual meeting, 11th, Boston, June 4-7. Bankers M 109:87-93+ Jl '24
Annual meeting, 12th, Seattle, June 24-27. Bankers M 111:217-22 Ag '25; Am Mach 63: 78a-b Jl 9 '25

NATIONAL founders' association
Annual convention, 27th, New York, Nov. 21-22. Iron Age 112:1449-51+ N 29 '23; Iron Tr R 73:1494-5 N 29 '23
Annual convention, 28th, New York, Nov. 19-20. Iron Age 114:1411-15 N 27 '24; Iron Tr R 75:1447-8+ N 27 '24; Manuf Rec 86:61-3 N 27 '24

NATIONAL fraternal congress of America
National fraternal congress of America. Spectator 113:79-80 sec 2 Jl 17 '24

NATIONAL gas council of Great Britain and Ireland
Annual general meeting, 6th, London, July 8. Gas J (Lond) 167:312-16 Jl 16 '24
Annual general meeting, 7th, London, May 26. Gas J (Lond) 170:658-62 Je 3 '25

NATIONAL good roads show
Annual convention, 22d, Chicago, Jan. 5-9. Can Eng 48:153-4 Ja 20 '25; Good Roads 68: 47-9 F '25; Eng & Contr (R & S) 63:65-74 Ja 7 '25
14th good roads show, Chicago, January 15-17. Good Roads 56:1-3, 35-40 Ja-F '24; Eng & Contr (R & S) 61:5-15 Ja 2 '24

NATIONAL hardware association
Annual meeting, 13th, Philadelphia, May 9-10. Sheet Metal Worker 15:334-5+ My 23 '24
Annual meeting, 14th, Cleveland, May 15-16. Iron Age 115:1517-18 My 21 '25; Iron Tr R 76:1358-9 My 21 '25: Sheet Metal Worker 16:278-80 My 22 '25
Metal branch meeting, Atlantic City, October 15. Sheet Metal Worker 15:760-1+ O 24 '24

NATIONAL highway traffic association
Annual meeting, New York, Dec. 2. Automotive Ind 51:1012-13 D 11 '24; Bus Transportation 4:34 Ja '25

NATIONAL industrial advertisers' association
Annual convention, Chicago, Oct. 13-14. Ptr Ink 129:111+ O 2; 33 O 16; 41-2 O 23 '24
Annual convention, 4th, Atlantic City, Oct. 19-21. J: A. Murphy. Ptr Ink 133:25-6+ O 29 '25

NATIONAL industrial conference board
Nine years of activity. Special Lib 16:231 Jl '25

NATIONAL industrial traffic league
Annual meeting, Chicago, Nov. 14-15. Ry Age 75:978-81 N 24 '23
Annual meeting, New York city, Nov. 19-20. Ry Age 77:945-6, 985-7 N 22-29 '24

NATIONAL institute for research in colloid chemistry (proposed)
Laboratory apparatus and equipment. R. P. Cargille. il plans Chem Age 32:339-40 Ag '24

NATIONAL institute of credit associates
Cash value of special training; salary increases. W: Gregg. Credit M 26:7 D '24

NATIONAL knitted outerwear association
Annual convention, Brooklyn, N.Y., July 9-10. Textile World 68:343-8 Jl 18 '25
Annual convention, Philadelphia, Sept. 18-20. Textile World 66:1537-8, 1682-4+ S 20-27 '24
Western district 4th semi-annual meeting, Green Bay, Wis., June 26-27. Textile World 67:75-6 Jl 5 '24

NATIONAL lead company
National lead company. Moody's Inv Serv 16: 221-4 My 29 '24
National lead company does not control Patino tin properties. A. B. Parsons. Eng & Min J 118:663 O 25 '24

NATIONAL machine tool builders' association
Annual convention, 23d, Lenox, Mass., Oct. 8-10. Am Mach 61:636-b O 16 '24; Iron Age 114:983-6 O 16 '24; Mach 31:189-91 N '24
Annual meeting, 24th, Washington, Sept. 30-Oct. 2. Am Mach 63:604-a O 8 '25; Iron Age 116:956-61 O 8 '25; Iron Tr R 77:932-4 O 8 '25; Mach 32:191-3 N '25
Meeting, Buffalo, May 22-24. Iron Age 113: 1582a-f My 29 '24; Iron Tr R 74:1440-1+ My 29 '24; Mach 30:767 Je '24
Spring convention, 23d, Buffalo, April 29-May 1. Mach 31:693-4 My '25; Am Mach 62:756-a My 7 '25; Iron Age 115:1358-61 My 7 '25; Iron Tr R 76:1225-7 My 7 '25

NATIONAL metal trades association
Annual convention, 26th, New York city, April 23-24. Iron Tr R 74:1183-4+ My 1 '24; Iron Age 113:1279+ My 1 '24
Annual convention, 27th, Cleveland, Ohio, April 22. Am Mach 62:718a Ap 30 '25; Iron Age 115:1265-70 Ap 30 '25; Iron Tr R 76:1157-9 Ap 30 '25

NATIONAL motor bus association
A.A.A. urges need for action on national association. Bus Transportation 4:522 O '25
Changes suggested in N.M.B.A. set-up by California carriers. Bus Transportation 4:459-60 S '25
Favors joining A. A. A. C. R. Woods. Bus Transportation 4:396 Ag '25
No affiliation between the National motor bus association and the American automobile association. Bus Transportation 4:355 Jl '25
Organization meeting, Chicago, June 17-18. Elec Ry J 65:1019 Je 27 '25; Bus Transportation 4:321-2 Jl '25
Plans. Bus Transportation 3:533-4 N '24

NATIONAL motorists' association
Serving the motorist. R: H. Lee. Ann Am Acad 116:266-8 N '24

NATIONAL museum of engineering and industry
American museum of engineering. Mech Eng 47:865-6 O '25
Insull honored as president of engineering museum. Power 61:1012 Je 23 '25
National museum of engineering and industry. I. S. Proper. il plan Power 62:55-8 Jl 14 '25
Proposed National museum of engineering and industry to be erected at Washington, D.C. il Am Mach 62:159 Ja 22 '25; Eng N 94:333 F 19 '25; N E L A Bul 12:176-7 Mr '25

NATIONAL museum of fine arts (proposed)
National museum of the fine arts in Washington. H. Croly. Arch Rec 55:599 Je '24

NATIONAL non-partisan league
Problems of farmers of Northwest, North Dakota and Non-partisan league. R. A. Nestos. Comm & Fin Chr 117:2280-1 N 24 '23

NATIONAL oil shale conference
Convention, Sacramento, Calif., Oct 2. (Quarterly v. 19, no. 4) 98p Colorado school of mines, Golden, Col. O '24

NATIONAL paint, oil and varnish association
Annual convention, 37th, Atlantic City, Oct. 20-22. Oil Paint & Drug Rep 106:3+ O 29 '24
Annual convention, 38th, Cleveland, Oct. 21-24. Oil Paint & Drug Rep 108:20 O 26; 3-81 N 5 '25
First Southern zone regional meeting, Atlanta, Ga. Oil Paint & Drug Rep 107:22+ My 25 '25
Western zone regional convention, Seattle, July 15-17. Oil Paint & Drug Rep 108:22+ Jl 27 '25

NATIONAL paper trade association
Annual meeting, 21st, New York, April 8. Paper Tr J 78:259+ Ap 10 '24; Paper 33: 150+ Ap 17 '24
Annual meeting, 22d. Paper Tr J 80:29-54+ Ap 2 '25
Fall conference, Chicago, Oct. 13-15. Paper Tr J 79:23-7 O 23 '24
Fall conference, Chicago, Oct. 5-7. Paper Tr J 81:23-4 O 15 '25

NATIONAL parks and reserves
Bid of the Southern highlands for national parks. A. L. Powers. Manuf Rec 87:83 Je 11 '25
National park in our southern highlands. A. L. Powers. il Manuf Rec 85:101-4 Mr 6 '24
See also Smoky Mountain national park (proposed); United States—National park service

NATIONAL paving brick manufacturers' association
Annual meeting, Cincinnati, Ohio, Jan. 22-23. Brick & Clay Rec 64:179-81 F 5 '24
Annual meeting, St. Louis, Jan. 20-22. Good Roads 68:49+ F '25; Brick & Clay Rec 66: 195-7 F 3 '25

NATIONAL petroleum association
Annual meeting, 22d, Atlantic City. R. B. Stafford. Nat Pet N 16:33-4+ S 24 '24
Annual meeting, Atlantic City, Sept. 16-18. Oil Paint & Drug Rep 108:21+ S 21 '25; Nat Pet N 17:25-8 S 23 '25
Semi-annual convention, Cambridge Springs, Pa., April 23. Nat Pet N 16:48 Ap 30 '24
Semi-annual meeting, Cambridge Springs, Pa., April 22-23. Nat Pet N 17:33-40 Ap 29 '25

NATIONAL petroleum marketers' association
Complete registration of N. P. M. A. Cleveland convention, 1924. Nat Pet N 16:63-4+ N 26 '24
Convention, Cleveland. R. B. Stafford. Nat Pet N 16:43+ N 26 '24
1923 great year for N.P.M.A. R. R. Moore. Pet Age 13:11-12 Ja 15 '24
Why independent marketers want refinery. H. F. Brownell. Nat Pet N 17:34-5 N 4 '25

NATIONAL physical laboratory, Teddington. See Great Britain—National physical laboratory, Teddington

NATIONAL pipe and supplies association
Annual convention, 15th, Cleveland, May 22-23. Iron Age 113:1584 My 29 '24; Sanitary & Heat Eng 101:352-4 My 30 '24
Annual convention, 16th, French Lick, Ind., May 26-28. Dom Eng 111:44+ Je 6 '25; Sanitary & Heat Eng 103:418-19+ Je 12 '25

NATIONAL pressed metal society
Organization. Blast F & Steel Pl 13:255 Je '25

NATIONAL publishers association
Annual meeting, 6th, Shawnee-on-Delaware, Pa., Sept. 29-Oct. 1. Ptr Ink 133:44 O 8 '25

NATIONAL radio conference
National radio conference, 3d, Washington, Oct. 6-10. Comm & Fin Chr 119:2136-7 N 8 '24
Third radio conference makes for better radio service. C. H. Butman. il Radio N 6:901+ D '24

NATIONAL register of electrical installation contractors
Annual meeting, 1st, London, Mar. 27. Electrician 94:402-3 Ap 3 '25

NATIONAL research council
Psychological work of the National research council. R. M. Yerkes. (Reprint and Circ Ser. 48) p 1-7 20c National research council, 1701 Massachusetts av., Washington, D.C. '23
Statement of activities of the National research council for the year July 1, 1922-June 30, 1923. V. Kellogg. (Reprint and Circ. Ser. 49) p 1-16 25c National research council, 1701 Massachusetts av., Washington, D.C. '23

Advisory board on highway research
Annual meeting, 3d, Washington, D.C., Nov. 8. Automotive Ind 49:1008-9 N 15 '23
Brief of annual meeting of Advisory board on highway research, Washington, D.C., Nov. 8-9. Munic Eng 65:253-7 D '23
Highway research board fourth annual meeting held at Washington in December. J. L. Harrison. Pub Roads 5:5-8 Ja '25; Same. Munic & Co Eng 68:3-6 Ja '25; Same. Eng & Contr (R & S) 63:263-8 F 4 '25; Same cond. Can Eng 48:147-8 Ja 20 '25

NATIONAL research council—Advisory board on highway research—*Continued*
Highway research board organized. Eng & Contr (R & S) 62:494-5 S 3 '24; Pub Roads 5:13 S '24
Highway research more than pays for itself. D. G. O'Connor. Automotive Ind 51:1005-6 D 11 '24
Proceedings of the third annual meeting of the Advisory board on highway research, Division of engineering. W: K. Hatt and E. R. Olbrich, eds. il Nat Research Council Bul v 8, pt 1:1-162 Mr '24
Research an important factor in highway improvement. Soc Auto Eng J 13:495-6+ D '23

NATIONAL retail coal merchants' association
Annual convention, 7th, Bluefield, W. Va., June 4-5. Coal Age 25:883-4 Je 12 '24

NATIONAL rivers and harbors congress
Annual convention, 20th, Washington, D.C., December 10-11. Eng & Contr (Ry) 63:609-10 Mr 18 '25

NATIONAL safety council
Annual congress, 12th, Buffalo, Oct. 1-5. Monthly Labor R 17:1165-6 N '23
Annual congress, 13th, Louisville, Kentucky, Sept. 29-Oct. 3. Safety Eng 48:161-3 O '24; Coal Age 26:513-15 O 9 '24; Iron Age 114: 921+ O 9 '24; Iron Tr R 75:956 O 9 '24; Ry Age 77:647-9 O 11 '24; Spectator 113:4+ O 9 '24; Blast F & Steel Pl 12:497 N '24; Bus Transportation 3:531-2 N '24; Monthly Labor R 19:1146-8 N '24; Nat Safety N 10:12-18+ N '24
Annual congress, 14th, Cleveland, Sept. 28-Oct. 2. Safety Eng 50:208-15 O '25; Am Mach 63:604d-e O 8 '25; Coal Age 28:499-501 O 8 '25; Elec Ry J 66:556-8 O 3 '25; Eng & Min J 120:589-90 O 10 '25; Foundry 53:818 O 15 '25; Iron Age 116:954-5+ O 8 '25; Iron Tr R 77:859, 943-7 O 1-8 '25; Nat Safety N 12: 23-9 N '25
From Milwaukee, 1912, to Louisville, 1924. W: H. Cameron. Nat Safety N 10:15+ O '24
Michigan state safety conference, Grand Rapids, Mich., March 23-24. Nat Safety N 11:21-3 My '25
Midwest safety conference of the American society of safety engineers—engineering section, National safety council, Chicago, Jan. 19. Nat Safety N 11:33 F '25
President's annual address. C. B. Auel. Nat Safety N 12:11-12 O '25
Safety organizations to consolidate. Iron Tr R 74:366 Ja 31 '24
Successful Cleveland meeting ends district conferences. plan Nat Safety N 9:34 Je '24

NATIONAL spun silk co., New Bedford, Mass.
How a spun silk plant fits men to its jobs. D. G. Woolf. Textile World 66:753-5 Ag 9 '24

NATIONAL student forum
"The youth movement" in colleges with its trend to socialism and other evils. Manuf Rec 86:61-6 Jl 10 '24

NATIONAL supply and machinery distributors' association
Convention, Cleveland, May 19-21. Iron Age 113:1570-2+ My 29 '24; Iron Tr R 74:1438-9 My 29 '24
Convention, Atlantic City, April 27-29. Iron Age 115:1355-7+ My 7 '25; Iron Tr R 76: 1223-4 My 7 '25

NATIONAL tire dealers' association
Annual convention, 4th, New York city, Nov. 13-15. Automotive Ind 49:1042-3 N 22 '23

NATIONAL trade extension bureau
Advertising and sales managers' conference of the National trade extension bureau, Evansville, Indiana, November 5-7. Dom Eng 109:41+ N 15 '24
Annual conference, 3d, Evansville, Ind., Oct. 29-31. Dom Eng 105:275-8 N 10 '23; Sanitary & Heat Eng 100:320-4 N 16 '23
Are you too busy to read? W: J. Woolley. Dom Eng 110:79+ Ja 10 '25
Trade extension services grow. W: J. Woolley. Dom Eng 112:41+ Jl 18 '25

NATIONAL transportation conference. See Transportation conference, Washington, D.C., 1924

NATIONAL transportation institute
Aims and plan. Elec Ry J 62:945 D 1 '23
First report of the research council. Ry Age 76:283-4 Ja 26 '24
Research program. Ry Age 75:1174 D 22 '23

NATIONAL varnish manufacturers' association
Annual meeting, 22d, Atlantic City, Oct. 16. Oil Paint & Drug Rep 106:69-71 O 29 '24
Annual convention, 23d, Cleveland. Oil Paint & Drug Rep 108:22+ O 26; 82-7 N 5 '25

NATIONAL vigilance committee
Machinery of organized truth-in-advertising work. Ptr Ink 129:120+ D 25 '24

See also National better business bureau of the Associated advertising clubs of the world

NATIONAL warm air heating and ventilating association
Annual convention, 11th, Cleveland, April 16-17. Heat & Ven 21:64 My '24; Sheet Metal Worker 15:254-5+ Ap 25 '24
Annual meeting, 12th, Cleveland, April 15-16. Am Soc Heat & V E J 31:318-20 My '25; Sheet Metal Worker 16:203-7 Ap 24 '25; Heat & Ven 22:81-2 My '25
Brief outline of furnace manufacturers' association history. E. B. Langenberg. Sheet Metal Worker 15:1003+ Ja 16 '25
Mid-year meeting, Urbana, Dec. 2. Sheet Metal Worker 15:873-5 D 5 '24; Heat & Ven 22:69-72 Ja '25

Trade extension bureau
Some thoughts on warm-air furnace trade extension. Sheet Metal Worker 14:951-3 Ja 4 '24
Trade extension bureau recommended. Sheet Metal Worker 14:863-5 D 7 '23

NATIONAL wholesale druggists' association
Address. S. D. Andrews. Oil Paint & Drug Rep 108:7+ O 15 '25
Address. G. B. Moxley. Oil Paint & Drug Rep 106:7+ O 1 '24
Federal trade commission dismisses conspiracy charge against N.W.D.A. Oil Paint & Drug Rep 106:19 S 8 '24
Golden jubilee convention, Atlantic City, Sept. 22-25. Oil Paint & Drug Rep 106:1+ O 1 '24
Meeting, 51st, Detroit, Oct. 5-8. Oil Paint & Drug Rep 108:21+ O 12; 4-54 O 15 '25

NATIONAL wholesale dry goods association
Annual meeting, 20th, New York. Textile World 65:355-6 Ja 19 '24

NATIONAL wool exchange
National wool exchange formed in Helena, Mont. to take place of National wool warehouse & storage company. Comm & Fin Chr 119:2367 N 22 '24

NATURAL dyes. See Dyes and dyeing—Natural dyes

NATURAL gas. See Gas, Natural

NATURAL gas association of America
Annual convention, 19th, Cleveland, Ohio, May 19-22. Gas Age 53:649, 729-30 My 10, 24 '24; Nat Pet N 16:22-4+ My 28 '24; Pet Age 13:18+ Je 1 '24
Annual meeting, 20th, Atlantic City, May 18-21. Nat Pet N 17:30-3 My 27 '25

NATURAL gas gasoline. See Gasoline, Natural gas

NATURAL gasoline manufacturers, Association of. See Association of natural gasoline manufacturers

NATURAL resources
Chemistry in world affairs. H. E. Howe. il Sci Am 133:24-5, 96-7 Jl-Ag '25
Economic utilization of natural resources. H. A. C. Jenison. il Min Cong J 10:351-4 Ag '24

See also Coal; Conservation of resources; Forests and forestry; Gas, Natural; Mines and mineral resources; Peat; Petroleum; Reclamation of land; Water power; Water supply

NAUTICAL instruments
How science aids the safety of German ships. il Sci Am 132:371 Je '25
Modern navigational devices. F. E. Smith. il diags Engineer 138:534-7 N 7 '24; Excerpts. Elec R (Lond) 95:378-9 S 5 '24; Abstract. Engineering 117:299-300 Mr 7 '24
Rudder manipulation for efficient ship operation. E. A. Sperry. il Marine Eng 29:31-5 Ja '24
Ship's trim indicator and shoal water alarm. A. W. Nesbit. il Engineering 117:617-18 My 9 '24
Traceur de routes, système Baule, pour le tracé automatique à bord des navires. F. Collin. diags Génie Civil 85:233-5 S 13 '24
See also Sounding

NAVAL architects, Institution of. See Institution of naval architects

NAVAL architecture
Aeronautics in naval architecture. J. C. Hunsaker. Engineering 118:722-3 N 21 '24; Abstract, with discussion. Marine Eng 29:725-8 D '24
Fifty years' evolution in naval architecture and marine engineering; abstracts. A. Denny. Engineering 120:252-5 Ag 28 '25; Engineer 140:221-2 Ag 28 '25; Elec R (Lond) 97:332-3 Ag 28 '25; Marine Eng 31:49-53 Ja '26
Form effects and form resistance of ships. W. G. A. Perring. diags Engineering 119: 718-20 Je 5 '25
Gaps to be filled in the science of naval architecture. Marine Eng 29:572-4 O '24
High-speed forms and the curvature of buttocks. P. G. Rouse. il Engineering 117:3-5 Ja 4 '24
Japan's contribution to naval architecture; abstracts. F. P. Purvis. Engineering 119: 429 Ap 3 '25; Marine Eng 30:341-2 Je '25; Discussion. Engineering 119:425-6 Ap 3 '25
Passenger ship design from an independent point of view. J: Anderson and R. Steele. diag Engineering 117:839-40 Je 27 '24; Abstract. Engineer 138:18-19 Jl 4 '24; Discussion. Engineering 117:834 Je 27 '24
Principles of naval architecture and warship construction. G: C: Manning and T. L. Schumacher. 353p U.S. naval institute, Annapolis, Md. '24
Recent developments in naval architecture. Engineering 117:115 Ja 25 '24
Safety factors in lake ships. A. Lindblad. diags Marine R 54:58-62 F '24
Scantling development in iron and steel merchant ships. J. F. King. diags Engineering 120:305-8 S 4 '25; Abstract. Engineer 140:235-6 S 4 '25; Discussion. Engineering 120:282-3 S 4 '25; Engineer 140:236 S 4 '25
Ship design. J: Biles. Engineering 117:841-4; Discussion. 832 Je 27 '24
Work of W. and R. E. Froude. A. W. Johns. Engineer 138:660-1, 687-9, 715-17 D 12-26 '24
See also Airplane carriers; Barges; Boats; Bulkheads (naval architecture); Fire boats; Fishing boats; Freight ships; House boats; Ice-breaking vessels; Load line; Majestic (steamship); Marine engineering; Motor ships; Propellers; Repair ships; Salvage ships; Ship propulsion; Ship resistance; Shipbuilding; Ships; Ships, Corrugated; Steamboats; Submarine boats; Tank ships; Torpedo boats; Towboats; Warships; Yachts

Designs and plans
Anchor-Donaldson line places new intermediate type liner in Glasgow and Montreal passenger service. diags plans Marine Eng 29:149-54 Mr '24
Big lake motorship for Henry Ford. J. C. Workman. il diags plan Marine R 54:177-84, 208-11 My-Je '24
Development of ships' structural design. H. W. Curchin. diags Engineering 116:605-8 N 9 '23
Fruit carrying motorship La Playa; fitted with Camellaird-Fullagar engines. il diags plans Marine Eng 29:20-4 Ja '24
Influence of trading conditions on the design of intermediate passenger vessels; abstract with discussion. W. G. Cleghorn. Engineering 119:471 Ap 17 '25
Japanese train-ferry turbine steamer Shoho-Maru. Engineering 118:735, pl 77 N 28 '24
Largest paddle steamers ever built; Great Lakes steamers Greater Detroit and Greater Buffalo. il diags plans Marine Eng 29:642-8 N '24
Motor liner Aorangi. il diags Engineer 139: 42-6, 48 Ja 9 '25
Motorship building in Italy; the Esquilino. Marine Eng 30:493-5 S '25
Motor-ship Raby-Castle. il diags Engineering 119:507-9, pl 31-3 Ap 24 '25; Engineer 139: 458-60 Ap 24 '25
New bay steamer District of Columbia delivered. Marine Eng 30:201-3 Ap '25
New Clyde liners. diags plans Marine Eng 30:323-9 Je '25
New Diesel engine tow boat Mahoe. il plans Marine Eng 30:385-7 Jl '25
New European motor passenger vessels. il diag plans Marine Eng 29:467-70 Ag '24
New Southern Pacific steamship El Oceano. il diags plans Marine Eng 30:260-3 My '25
New steam ferry Bataan for Manila Bay service. R. Martinez. il diags plans Marine Eng 30:547-50 O '25
New steamer for New Bedford-Nantucket service. il diags plans Marine Eng 29:285-9 My '24
New steamship Boston goes into service. il plans Marine Eng 29:399-407 Jl '24
New steamship George Washington goes into service. il diags plans Marine Eng 30:9-19 Ja '25
Le nouveau paquebot D'Artagnan de la Compagnie des Messageries maritimes. O. Quéant. il diags plans Génie Civil 87:301-5 O 10 '25
Old and new lightships. il plans Marine Eng 30:137-40 Mr '25
Paper-carrying steamer Humber Arm. il plans Engineering 120:383-6 S 25 '25
Le paquebot transatlantique De Grasse. O. Quéant. il diag plan Génie Civil 86:125-30, pl 1 F 7 '25
Les paquebots Champollion et Mariette-Pacha de la Compagnie des messageries maritimes. il diags plans Génie Civil 86: 597-600, pl 7 Je 20 '25
Passenger and cargo motorship Parkeston. il diags plans Marine Eng 30:496-500 S '25
Peninsular and Oriental liner Rawalpindi. il diags Engineering 120:467-9, 470, 508-9, 514, pl 28-31 O 16-23 '25
River steamers used in coast service. C. H. Handy. il diags plans Marine Eng 29:223-7 Ap '24
Sailing and motor craft; the scientific aspects of their design. H. W. Hutchinson. diags plans Engineering 120:495-8 O 16 '25
Der see- und bergungsschlepper Seefalke. F. Hillebrand and E. Müller. il diags plans Zeit Ver Deutsch Ing 69:433-8 Ap 4 '25
Shallow draught steamer Wanhsien. Engineering 117:10, pl 1 Ja 4 '24
Ship form and steering. A. W. Johns. diags Engineer 136:551-2, 576-7 N 23-30 '23
Ships' lines. H: H. W. Keith. Marine Eng 30: 575-9 O '25
Some recent British dredgers. il Engineer 138: 694, 695-6, 698 D 19 '24
S.S. Alexander Hamilton joins Hudson river fleet. il diags plans Marine Eng 29:459-65 Ag '24
Toledo shipbuilding company completes modern bulk freighter William K. Field for Reiss steamship company. il diags plans Marine Eng 29:216-22 Ap '24
Turbine-driven steamers Principessa Giovanna and Principessa Maria. il diags Engineering 117:821-2, 828, pl 83-4 Je 27 '24
Twin-screw geared turbine Orient liner Orama. Engineering 118:543-4, 601-4, pl 56-7, 62-4 O 17, 31 '24
Twin-screw passenger and freight steamer Columbus. E. Foerster. il diags plans Marine Eng 29:81-9 F '24

NAVAL architecture—Designs and plans—*Cont.*
Twin screw South Atlantic liner Monte Sarmiento. il plans Marine Eng 30:79-91 F '25
U.S. yards build distinctive ships; American shipbuilding from Jan. 1, '23 to May 1, '24. il Marine R 54:201-2, 216-64 Je '24

See also Cable laying and supply ships; Fire boats; Ships—Reconstruction; Towboats

Study and teaching

See Naval education

Subdivision

See Bulkheads (naval architecture)

Tables, calculations, etc.

Deck camber, sheer and bevel nomogram. E. V. Telfer. diag Marine Eng 29:362-3 Je '24
Economical design of translantic liners. C. E. Petersen. Marine Eng 30:624-8 N '25
Increasing the efficiency of the screw propeller. W. Pollock. il diags Engineering 119: 489-90 Ap 17 '25
Influence of trading conditions on the design of intermediate passenger vessels. W. G. Cleghorn. Marine Eng 30:343-4 Je '25
Jordan's tabulated weights of iron and steel sections and other information. C: H. Jordan. 8th ed., rev. 316p Spon '23
Wake propeller coefficients. D. W. Taylor. Marine Eng 30:335-41 Je '25; Same cond. Engineering 119:429-32 Ap 3 '25; Discussion. 119:443 Ap 10 '25; Engineer 139:402 Ap 10 '25
Wetted surface. H: H. Schulze. diags Marine Eng 29:345-9 Je '24

NAVAL art and science
Some naval theories exploded. J. B. Walker. il diags Sci Am 133:178-9 S '25

See also Marine engineering; Navies; Navigation; Navy yards and naval stations; Sea power; Shipbuilding; Smoke screens

Dictionaries

Dictionary of naval equivalents covering English, French, Italian, Spanish, Russian, Swedish, Danish, Dutch, German. 2v Oxford '24
From keel to truck; dictionary of naval terms,—English, French, German, Spanish, Italian. H. Paasch. 4th ed., rev. and enl. Van Nostrand '24
Naval terms and definitions. C: C. Soule. 2d ed., rev. 124p Van Nostrand '23

NAVAL bases. See Navy yards and naval stations

NAVAL education
Admiralty system of higher education. W. J. Berry and R. B. Dixon. Engineering 120:459-61 O 9 '25; Discussion. 120:317-18 S 11 '25; Abstract. Engineer 140:286-7 S 18 '25

NAVAL guns
Navy at the British Empire exhibition. diags Engineering 118:185-9 Ag 8 '24

NAVAL hygiene
Health of the navy. F: L. Hoffman. Spectator 114:31-3 Je 25 '25

NAVAL oil leases. See Oil reserves (United States navy)—Lease investigation

NAVAL stores
Chemical control of naval stores. H. C. Morris. chart Chemicals 24:5-7 Ag 3 '25
Federal naval stores act. F. P. Veitch. Ind & Eng Chem 16:640-1 Je '24
Naval stores activity marked. J. C. Nash. Chem & Met Eng 32:89 Ja 19 '25
Naval stores body makes its report. Oil Paint & Drug Rep 106:19+ O 20 '24
Naval stores foreign trade of United States. Oil Paint & Drug Rep 108:41 S 28 '25
Naval stores industry of the South. T: Gamble. il Manuf Rec 86:325-6 pt 2 D 11 '24
Naval stores: market review. Oil Paint & Drug Rep 105:68-9 Mr 20 '24
Naval stores; market review. Oil Paint & Drug Rep 107:67-8 Mr 26 '25
Naval stores survey. Dun's R 32:8 S 20 '24
Pine institute of America—a conception of far-reaching importance to the South and to the nation. Manuf Rec 87:65-6 F 12 '25
Production statistics. Oil Paint & Drug Rep 108:61 N 5 '25
Reforestation of South's timber lands to foster naval stores industry. Manuf Rec 86:98 O 9 '24
Revival of trade in rosins results in higher prices, 1924. Chem & Met Eng 32:143 Ja 19 '25

See also Tar; Turpentine

Accounting

Tax problems of the naval-stores industry. P. Devlin. J Account 39:460-9 Je '25

Prices

Naval stores. Published in weekly numbers of Oil paint and drug reporter

NAVIES
Brassey's naval and shipping annual, edited by A. Richardson and A. Hurd. Review. Engineering 116:780-1 D 21 '23
Naval construction in 1923. il Engineer 137: 2-5, 16 Ja 4 '24
Naval construction in 1924. Engineer 139:8-9 Ja 2 '25
Post-treaty standing of the world's navies. il Sci Am 130:320+, 321 My '24

See also Disarmament; Navy yards and naval stations; Sea power; Submarine boats; Warships; *also* subdivision Navy under names of countries, e.g. Great Britain —Navy; United States—Navy

NAVIGATION
Cugle's practical navigation. C: H. Cugle. New ed. 351p Dutton '24
Finding ship's position by new method. Marine R 54:55-6 F '24
Hilfsbuch für die schiffsführung. J. Müller and J. Krauss. 2d ed., rev. and enl. 576p J. Springer, Berlin '25
Interaction between vessels. R. B. Bodilly. 132p Van Nostrand '24
Marine department regulations. Standard oil company. 139p Monroe press, New York '24
Steering of ships in shallow waters and canals. G. S. Baker. Engineer 138:18 Jl 4 '24
Summer line of position furnished ready to lay down upon the chart by means of tables of simultaneous hour angle and azimuth of celestial bodies. 869p U.S. Hydrographic office, Washington '23

See also Buoys; Direction finding apparatus; Fog signals; Harbors; Hydrographic surveying; Ice patrol service; Ligthhouses; Load line; Maritime law; Motor boats; Nautical instruments; Oil pollution of rivers and harbors; Pilots and pilotage; Radio beacons; Radio compass; Radio signals; Rivers; Safety at sea; Shipbuilding; Shipping; Steamboats; Steering; Submarine boats; Tides; Towing; Waterways; Yachts

NAVIGATION, Aerial. See Aeronautics; Aviation

NAVIGATION laws. See Maritime law

NAVY yards and naval stations
Advanced naval bases. S. F. Staples and D. J. Munro. diags plan Engineering 117:837-9 Je 27 '24; Abstract. Engineer 137:712-13 Je 27 '24; Discussion. Engineering 117:832-3 Je 27 '24
Naval base at San Francisco bay. Engineering 117:341 Mr 14 '24

See also Singapore navy yard

Accidents

Uncle Sam's safety record at the navy yards. S. J. Owen. il Nat Safety N 10:33-4+ O '24
U.S. navy yards improve accident rates. Nat Safety N 9:52 Je '24

NEAR East
Importance of the Near East in problems of raw materials and foodstuffs. E: M. Earle. Ann Am Acad 112:183-6 Mr '24

NEAR East relief
If trade follows the heart, Near East is won. J. Hill. il Forbes 15:282-3 D 1 '24

NEBRASKA
See Gasoline industry—Nebraska; Water power—Nebraska

NEBRASKA university
Building the Nebraska university concrete stadium. il diags Eng N 93:498-500 S 25 '24

NEBULAE
Widening the limits of the universe. H: N. Russell. il Sci Am 132:165 Mr '25

NECKTIES
Knitted neckties on lace stitch. W: Davis. il diags Textile World 68:359+ Jl 18 '25

NEEDLES

Manufacture

British wire-drawing and wire-working machinery. il diags Engineer 138:610-12 N 28 '24
Large uses of steel in small ways. il Iron Tr R 75:535-6 Ag 28 '24

NEFF, Grover C.
Portrait. Elec W 82:1100 D 1 '23

NEGLIGENCE
See Employers' liability; Manufacturers' liability; Municipal liability

NEGOTIABLE instruments
Bankers' forms and the negotiable instruments law. H. G. Chapin. 7th ed., rev. 126p Bankers encyclopedia co., New York '23
Cases on the law of bills and notes. W: E. Britton. 938p Callaghan & co., Chicago '23
Commercial paper system. G. G. Munn. Bankers M 110:883+ My '25
Concerning American collections in Canada. M. L. Aiken. Burroughs Clearing House 8: 20+ Je '24
Law of negotiable instruments in Canada. J: D. Falconbridge. 181p Ryerson press, Toronto '23
Law of negotiable securities. W: Willis. 4th ed., by A. W: B. Welford. 190p Sweet & Maxwell, London '23
Liability of accommodation maker. Am Bankers Assn J 16:796-7 Je '24
Liability of indorser whose signature as maker was forged. Bankers M 109:402-3 S '24
New Polish law of negotiable instruments. M. B. Carroll. U S Bur For & Dom Com Trade Information Bul 347:1-26 '25
Outlines of bills and notes. W: P. Richardson. 203p Brooklyn law school, Brooklyn, N.Y. '25
Treatise on the law of bills of exchange, promissory notes, bank-notes and cheques. J: B. Byles. 18th ed., by W. J. B. Byles and A. W. B. Welford. 442p Sweet & Maxwell, London '23
Treatise on the law of defenses in actions on commercial paper. J. A. Joyce and H. C. Joyce. 2d ed. rev. & enl. Bobbs '24

See also Acceptances; Bank notes; Bonds; Checks; Letters of credit; Warehouse receipts

NEGROES in the United States
Negro in the South. R. R. Moton. il Manuf Rec 86:71-6 N 20 '24
Negro migrants in Philadelphia in 1923. Monthly Labor R 19:998-9 N '24
New phases in the development of the negro in the United States. Comm & Fin Chr 119: 2578-9 D 6 '24

See also Perry, Heman E.

Economic conditions

Cost of living of colored farm families. Monthly Labor R 20:797-9 Ap '25
Working and living conditions of negroes of West Virginia. Monthly Labor R 21:256-9 Ag '25

Employment

Attitude of National association for advancement of colored people in regard to organized labor. Monthly Labor R 19:678-9 S '24
Employment of negroes on railroads. Monthly Labor R 19:1105 N '24
Southern negro in Cleveland industries. Monthly Labor R 19:41-4 Jl '24
Southern negro in northern industry. J: B. Abell. Econ W n s 27:620-2 My 3 '24; Abstract. Soc Auto Eng J 14:624 Je '24

See also Missouri—Negro industrial commission

Bibliography

Negro in industry. Russell Sage Foundation Library Bul 66:1-4 '24

Migration

Migratory habits of the negro under past and present conditions. F. W. Gist. Manuf Rec 85:77-9 Mr 13 '24
Negro exodus as viewed in North and West. S: G. Wilmer. Manuf Rec 85:79-83 Ap 17 '24
Negro exodus: will it be permanent? R: W. Edmonds. Manuf Rec 85:77-8 Ap 17 '24
Negro migration from Georgia. Monthly Labor R 18:32-5 Ja '24
Negro migration in 1923. Monthly Labor R 18: 762-4 Ap '24
Recent northward migration of the negro. J. A. Hill. Monthly Labor R 18:475-88 Mr '24

Mortality

Some observations on the mortality of negroes in America. L: I. Dublin. Econ W n s 28: 384-6 S 13 '24

NEILL, James Wilson
Mining engineers of note. Eng & Min J 119: 836 My 23 '25

NEODYMIUM
Preparation and some properties of metallic neodymium. H. C. Kremers. Am Electrochem Soc Trans v 47 (preprint 20):221-7 Ap '25

NEON
Electrical properties of neon, hydrogen, and nitrogen. S. P. McCallum and C. M. Focken. Philos Mag 6th ser 49:1309-20 Je '25
Equation of state of argon, neon and hydrogen; report on the work done in Leiden cryogenic laboratory. E. Mathias and C. A. Crommelin. Refrig Eng 12:87-91 [bibliog. p. 91] S '25
Magnetic susceptibility of helium, neon, argon, and nitrogen. L. G. Hector. diag Phys R 24:418-25 O '24
Motion of electrons in neon. V. A. Bailey. Philos Mag 6th ser 47:379-84 F '24
Neon—a new gas for electrical use. C. S. Treacy. Ry R 74:855 My 10 '24
New neon-filled rectifier tube. J. Riley. il Radio N 7:293+ S '25

NEON lamps. See Electric lamps, Neon

NEOSHO plan. See Advertising, Cooperative—Neosho plan

NEPTUNE association of licensed masters and mates of ocean and coastwise vessels
Improving conditions for ship officers. J. F. Milliken. Marine Eng 29:141-2+ Mr '24

NERNST effect
Connections between the four transverse galvanomagnetic and thermomagnetic phenomena. P. W. Bridgman. Phys R 24:644-51 D '24

NERNST lamps
Laboratory construction of Nernst filaments. H. D. Griffith. Philos Mag 6th ser 50:263-5 Jl '25

NERVES
Nerve injuries. J. H. Lewis. bibliog il J Ind Hygiene 6:203-11; Discussion. 224-5 S '24
Preventing faints and treating nervous shock. G. R. G. Fisher. il Nation's Health 7:474-6 Jl '25

NESSLER-Folin reagent
New direct nesslerization micro-Kjeldahl method and a modification of the Nessler-Folin reagent for ammonia. F. C. Koch and T. L. McMeekin. Am Chem Soc J 46:2066-9 S '24

NET
Tricot warp machine nets. diags Textile World 65:3301+ My 17 '24

NETHERLANDS
See also Motor bus lines—Netherlands; Zuider Zee

Commerce

Competitive factors in selling to Belgium and the Netherlands. S. H. Cross. U S Bur For & Dom Com Trade Information Bul 356:1-12 '25

Healthy trade of Holland. F: Simpich. il Nation's Business 11:33-5 D '23

Holland's foreign trade. World's Markets 15: 15-16 Ap '24

Trade of Holland. Elec R (Lond) 94:773 My 9 '24

Economic conditions

Holland's post-war difficulties. E. J. Mehren. Eng N 93:510-11 S 25 '24; Same. Am Mach 61:404b S 4 '24

See also Finance—Netherlands; Labor and laboring classes—Netherlands; Securities—Netherlands; Strikes and lockouts—Netherlands; Wages—Netherlands

Industries and resources

Census of industrial production in the Netherlands. E. W. van Dam van Isselt. Roy Statis Soc J 87:433-41 My '24

See also Automobile industry and trade—Netherlands; Coal mines and mining—Netherlands; Electric industries—Netherlands; Rubber industry and trade—Netherlands; Shipbuilding—Netherlands

NETHERLANDS trading society, The Hague
Hundred years of trading. Economist 98: 742-3 Ap 5 '24

New building of the Netherlands trading society at The Hague. il Bankers M 110:939-45 My '25

NEUMANN lines
Plastic deformation of iron and the formation of Neumann lines. W. Rosenhain and J. McMinn. Engineer 140:sup114-15 Ag 28 '25

NEUROPHONOMETER
Kiro-Vox—alias neurophonometer. il Radio N 7:767+ D '25

Latest radio swindle; the neurophonometer, manufactured by George D. Rogers. H. Gernsback. il Radio N 6:914-15+ D '24

NEUTRALIZATION
Calculations on the neutralisation of mixtures of acids, and a universal buffer mixture. E. B. R. Prideaux and A. T: Ward. Chem Soc J 125:426-9 F '24

Refractometric studies of neutralization. F: S. Hammett. J Fr Inst 199:91-8 Ja '25

NEVADA
See also Geology—Nevada; Mines and mineral resources—Nevada; Silver mines and mining—Nevada

Antiquities

"Lost City" of Nevada. M. R. Harrington. il map Sci Am 133:14-16 Jl '25

NEVER stop railway. See Electric railroads—Automatic operation

NEW BRUNSWICK, New Jersey
Engineering in the small city. Eng N 95:9-10 Jl 2 '25

NEW ENGLAND
New England, its curse and cure. Forbes 14:148+ My 10 '24

What southern visitors learned in New England. W. S. Copeland. Manuf Rec 88:61-2 O 29 '25

Yankee thrift and southern progress. R: W. Edmonds. Manuf Rec 87:87-9 F 5; 75-7 F 12; 77-8 F 19; 75-6 F 26; 93-4 Mr 5; 73-5 Mr 12 '25

See also Cotton manufacture—New England; Electric plants (central stations)—New England; Electricity supply—New England; Floods—New England; Railroads—New England; Water power—New England

Commerce

New England—Virginia trade entente. L. B. Hodges. Am Ind 25:36-40 F '25

North and South in industry. Am Ind 25:29-30 D '24

Economic conditions

New England ponders. E. Dakin. Comm & Fin 13:793-4 Ap 23 '24

New England to enter new era? Forbes 14: 216+ My 24 '24

Industries and resources

New England calls for get together spirit. Ptr Ink 129:87-8 N 27 '24

New England's industrial leadership. 32p Boston Chamber of commerce, Bur. of commercial and industrial affairs, Boston '23

NEW ENGLAND association of advertising clubs
Annual convention, 5th, Hartford, Conn., Nov. 16-19. Ptr Ink 129:87-8 N 27 '24

New England needs a brass band. Ptr Ink 133:97-8 O 22 '25

NEW ENGLAND association of gas engineers
Annual meeting, 54th, Boston, Feb. 13-14. Gas Age 53:189-90 F 16 '24; Am Gas J 120:160-3 F 23 '24

Annual meeting, 55th, Providence. H. O. Andrew. Gas Age 55:291-2+ F 28 '25

Greater New England gas association. C. E. Paige. Am Gas J 120:164-5+ F 23 '24

NEW ENGLAND company
New England company's power system. P. W. Garrett. Elec W 86:677-8 S 26 '25

NEW ENGLAND insurance exchange
New England insurance exchange. C. M. Goddard. Spectator 113:57-8 sec 2 Jl 17 '24

NEW ENGLAND motor transport conference
Conference, Boston, Dec. 8-9. Automotive Ind 51:1042-4 D 18 '24; Elec Ry J 64:1000-1 D 13 '24; Ry Age 77:1067-70 D 13 '24; Bus Transportation 4:41-3 Ja '25

NEW ENGLAND power company
New England power company Davis Bridge development. A. C. Eaton. il diags map plans Boston Soc C E J 12:1-33; Discussion. 33-48 Ja '25

NEW ENGLAND public service company
Details of new Insull holding company. P. W. Garrett. Elec W 86:727 O 3 '25

NEW ENGLAND state associations of insurance agents
Annual convention, 3d, Jefferson, N.H., June 24-26. Spectator 112:3+ Jl 3 '24

Annual convention, 4th, Newcastle, N.H., June 23-25. W. E. Roesch. Spectator 115: 15-16 Jl 2 '25

NEW ENGLAND telephone and telegraph company
Annual report for year ended Dec. 31, 1924. Comm & Fin Chr 120:824 F 14 '25

New England telephone and telegraph company granted rate increase. Comm & Fin Chr 121:707-8 Ag 8 '25

NEW ENGLAND water works association
Abstracts of papers and discussions before 1925 convention. Eng N 95:469-71 S 17 '25

Annual meeting, Rochester, N.Y. Eng N 93: 576-8, 719 O 9, 30 '24

NEW GUINEA
Sambio head hunters of New Guinea. il Sci Am 130:97 F '24

NEW HAMPSHIRE
See Water supply—New Hampshire

NEW HAVEN water company
New Haven water company. E. E. Minor. Am Water Works Assn J 13:323-4 Mr '25

NEW JERSEY
Plan for a metropolitan water district in New Jersey. Eng N 95:436 S 10 '25

See also Geology—New Jersey; Motor bus lines—New Jersey; New York (city)—Suburban traffic; Port of New York authority; Roads—New Jersey; Street railroads—New Jersey; Water supply—New Jersey

NEW JERSEY power and light company
7% cumulative participating preferred. Moody's Inv Serv 17:283 Ag 27 '25

NEW JERSEY zinc company
Helping the customer to get a better product; the New Jersey zinc company combines research and sales engineering. D. Gridley. Ptr Ink 127:100+ My 8 '24
Underground safety story of zinc. G: E. Wallis. il Nat Safety N 9:11-14 Je '24

NEW LONDON, Connecticut
Engineering in the small city. Eng N 95:305-6 Ag 20 '25

Sewerage
River current and tidal flow studies determine sewer outfall position. Eng N 95:175 Jl 30 '25

NEW MEXICO

See also Coal—New Mexico; Copper mines and mining—New Mexico; Geology—New Mexico; Mines and mineral resources—New Mexico; Petroleum—New Mexico; Roads—New Mexico

Sanitary affairs
Health work in New Mexico is five years old. G. S. Luckett. Nation's Health 6:745-6+ N '24

NEW models. See Products, Improved

NEW ORLEANS, Louisiana
Ever hear of Antoine's—? E. Dakin. il Comm & Fin 13:2277-80 N 26 '24
Gateway to the heart of a continent. O. C. McQuage. il Comm & Fin 14:2105-7+ O 28 '25
The new New Orleans. T. H. Price. Comm & Fin 13:2160-1 N 5 '24
Real estate developments involve much construction work. Eng & Contr (G C) 64:881-2 O 21 '25

See also Motor bus lines—New Orleans, Louisiana

Architecture
Architectural tradition in New Orleans. N. C. Curtis and W: P. Spratling. il diags Am Inst Arch J 13:279-96 Ag '25

Bridges
To bridge or not to bridge the Mississippi river at New Orleans. T: E. Dabney. Manuf Rec 87:73-4 My 28 '25

Harbor
Concrete sheetpile levee wall at New Orleans. W. M. Peters. il diags Eng N 93:257-8 Ag 14 '24
Port of New Orleans, Louisiana. 230p U.S. Eng. dept., Bd. of engineers for rivers and harbors, Washington '24
Realization of a new character of port economy; New Orleans co-ordinates rail, water and highway transportation. W. Parker. il Marine Eng 29:481-4 Ag '24

Railroads
Study of a large terminal develops basic data. J. R. Bibbins. map plan Ry Age 76:463-5 F 23 '24

Rapid transit
$1,325,896 balance reported at New Orleans under new agreement. Elec Ry J 62:991 D 8 '23

Sanitary affairs
Big drainage work at New Orleans. Manuf Rec 88:73-4 O 29 '25
Refuse disposal in New Orleans. C. Schneider. Pub Works 55:121-3 Ap '24
What scientific medicine has done for public health. O. Dowling. il maps Nation's Health 6:455-7+ Jl '24

NEW ORLEANS cotton exchange
New Orleans cotton seed oil market. A. D. Geoghegan. il Comm & Fin 14:2123+ O 28 '25
New Orleans—the ideal cotton market. J. F. Finke, jr. il Comm & Fin 13:2425-7 D 17 '24

NEW ORLEANS International trade exhibition. See International trade exhibition

NEW ORLEANS stock exchange
New Orleans stock exchange. E. Dakin. il diag Comm & Fin 14:2117+ O 28 '25

NEW ORLEANS, Texas and Mexico railway (Gulf Coast lines)
Commission approves acquisition of International-Great Northern by Gulf Coast lines. Ry R 74:1231-2 Je 21 '24
Control of I.G.N. by Gulf Coast lines authorized. Ry Age 76:1761-2 Je 21 '24
Strictures of Inter-state commerce commission on compensation to bankers in acquisition of Gulf Coast lines by Missouri Pacific —approves acquisition. Comm & Fin Chr 119:2718 D 13 '24; Ry Age 77:1080-2 D 13 '24

NEW products. See Products, New

NEW ROCHELLE, New York

Sewerage
Sewage screening and composting plant for New Rochelle. G: W. Fuller. Eng N 94:14 Ja 1 '25

NEW South Wales
See also Mines and mineral resources—New South Wales

NEW uses. See Advertisements—Use appeal; Markets, New

NEW YORK (city)
New York city property valued at $13,000,000,000. Eng & Contr (W W) 63:284 F 11 '25
Panic! possibilities of disasters in lower New York. J. H. Collins. il diags Sci Am 133: 149-51 S '25
Public finances of New York city in 1923. Econ W n s 29:378-9 Mr 14 '25

See also Electric plants (central stations) —New York (city); Housing—New York (city); Jamaica Bay boulevard

Architecture
Annual awards of the Fifth avenue association, New York, for best new building and best alteration in 1923. Am Arch 125:106e-f Ja 30 '24
Architectural response to social change; passing of the Vincent Astor house. H. Croly. Arch Rec 58:186-7 Ag '25
Brick wall. H. Croly. Arch Rec 57:380-1 Ap '25
Building of the American telephone & telegraph company. K. Clark. il plan Arch Rec 55:81-92 Ja '24
Civic center of New York city. map Arch & Bldg 56:17-18 F '24
Effect of the New York zoning resolution on commercial buildings. il Am Arch 125:547-51 Je 18 '24
Mecca temple, New York. il plans Am Arch 127:169-80, pl 46-8 F 25 '25
New dimension in architectural effects. H. Croly. Arch Rec 57:93-4 Ja '25
New York sub-treasury not to be used as prohibition offices—to be preserved as historic structure. Comm & Fin Chr 119:2488 N 29 '24
Office building problem in New York. E. J. Kahn. il Arch Forum 41:94-6 S '24
Passing of the skyscraper formula for design. L. V. Solon. il Arch Rec 55:135-44 F '24
Picturesque New York. G. Richard. il Arch Forum 40:121-4 Mr '24
Reclamation of a business slum. Arch Rec 54: 587-8 D '23
The terrifying town. A. Granger. Am Arch 127:445-8 My 20 '25

NEW YORK (city)—Architecture—*Continued*
Two notable houses on Sutton place, New York; the homes of Mrs. W. K. Vanderbilt and Anne Morgan. il plans Arch Forum 41: 49-60, pl 17-24 Ag '24
Unusual supports for long span roof trusses, on the "new garden," New York. il diag Bldg Age 47:95-8 Ag '25
Zoning laws in New York and the development of a new commercial center. il Am Arch 128:189-90, pl 232-5 Ag 26 '25

See also High buildings; Housing—New York (city); New York (city)—Churches; *also* American radiator company building, New York; Equitable life assurance society building, New York; New York cotton exchange building; Postum cereal company building, New York; Standard oil company building, New York

Bridges

Plans for changes in High Bridge at New York approved. il Eng N 92:742 Ap 24 '24
Port authority asks engineers to bid on bridge design. Eng N 93:991 D 18 '24
Secondary effect of certain important river bridges on local transit conditions. J: A. Miller, jr. map Am Soc C E Pro 50:389-95 Ap '24; Discussion. 50:863-73 Ag '24
Steel to replace stone; High Bridge. il Sci Am 132:181 Mr '25

Central park

Proposed war memorial in Central park, New York. Am Arch 125:106a-d Ja 30 '24

Churches

Skyscraper in the service of religion; combined church and skyscraper on upper Broadway. H. D. Croley. Arch Rec 55:203-4 F '24
Underpinning Trinity church with pipe piles. H. de B. Parsons. il diags plan Eng N 95: 668-70 O 22 '25

See also St John the Divine, Cathedral of

Columbia-Presbyterian medical center

New York's great medical center. M. Wilcox. il plans Arch Rec 58:101-15 Ag '25

Commerce

How overseas trade is handled at the port of New York. H. K. Barr. il Dun's Int R 46:41-4 O '25

Foreign bureaus of information

Foreign bureaus of information in New York city. R. Gossage. Supplement to Special Libraries July, 1925

Harbor

At tidewater and alongside—visualizing New York's delivery problems. L. O. Welcome. il Dun's Int R 44:49-50 D '24
Gives N.Y. port inter-dock distances. Marine R 55:274-5 Jl '25
Impasse in New York's port. Eng N 94:714-15 Ap 30 '25
Lighterage free; huge waterborne commerce of the port of New York. L. O. Welcome. il Dun's Int R 43:46-9 Ag '24
New York's freight problem. Bradstreet's 53: 531 Ag 15 '25
Progress by Port authority shown in report. Eng N 92:254 F 7 '24
Proposed causeway between Rockaway Beach and Sandy Hook, N.Y. W: J. Wilgus. diags plan Munic & Co Eng 68:220-3 My '25
Removing submarine rock with jack hammers. W. L. Kuehnle. chart diag Eng & Contr (W W) 60:1035-7 N 14 '23
Sanitary condition of New York harbor. K. Allen. Pub Works 56:78-80 Mr '25

See also Port of New York authority

Hotels

Building a twenty-story hotel over a railroad yard; the Roosevelt, N. Y. M. G. Farrell. il plan Bldg Age 47:99-103 Ja '25
Important addition to the new hotel life of New York city; Park Lane hotel. il plans Am Arch 126:445-8, pl 157-60 N 5 '24
Roosevelt hotel, New York. il Arch Forum 41: 277-84, pl 73-6 D '24
Roosevelt hotel, New York city. il (front) Arch & Bldg 56:101-2, pl 205-10 N '24
The Roosevelt, New York. M. G. Farrell. il plans Am Arch 126:427-34, pl 145-8 N 5 '24
Shelton hotel, New York. C. Bragdon. il plans Arch Rec 58:1-18 Jl '25

Housing

See Housing—New York (city)

Industries

Industrial New York outgrows Manhattan Island. J: A. Piquet. il map Ind Management 69:218-24 Ap '25
New York a great food factory. Am Ind 24:32 Jl '24
New York is the greatest refiner in the world and largest chemical center in America. Am Ind 24:16 Mr '24

See also Chemical industries—New York

Libraries

See also Morgan library

Madison Square Garden

Madison Square Garden, 1891-1925; photographs. il Am Inst Arch J 13:167-70 My '25

Markets

Wholesale markets in New York and its environs. G: Filipetti. 69p Regional plan of New York and its environs, New York '25

Metropolitan museum of art

American industrial art at the Metropolitan museum. R: F. Bach. il Arch Rec 55:304-6 Mr '24
Exhibition of industrial art at the Metropolitan museum. il Am Arch 125:153-5 F 13 '24
Fostering of American industrial art by the Metropolitan museum. L. V. Solon. Arch Rec 58:290-2 S '25
Industrial art means industrial efficiency. D. Gridley. il Ptr Ink M 10:33-5 My '25

American wing

American wing of the Metropolitan museum of art. Arch & Bldg 56:103-6, pl 216-19 N '24
American wing of the Metropolitan museum of art, New York city. il Am Arch 126:489-94 N 19 '24

Officials and employees

Promotion in the public service. T: C. Murray. Ann Am Acad 113:352-7 My '24

Politics and government

Plight of New York city. Comm & Fin Chr 121:881-9 Ag 22 '25

Population

Human side of the "East Side". J. H. Collins. Ptr Ink 125:3-4+ N 29 '23
New York makes haste more slowly. R: Spillane. Comm & Fin 14:1622-3 Ag 26 '25

Railroads

Electrify and elevate New York west side freight line. diag Eng N 91:947 D 6 '23
Joint inland freight station planned for Manhattan. Eng N 95:296 Ag 20 '25
New project for transit relief. Bradstreet's 52:285-6 My 3 '24
New York authorities discuss the new West side plan. Ry R 76:399-400 F 28 '25
New York terminal plan proposed by Port authority. Ry R 76:269-70 F 7 '25
Port authority plans improved freight service for Manhattan. il diags map Ry R 77:265-8 Ag 22 '25; Am Ind 26:19-20 S '25
Port authority undertakes to open Hell Gate bridge. Ry R 76:364-5 F 21 '25; Ry Age 78:483 F 21 '25
Port of New York authority asks that belt lines, &c., of port district be excluded from consolidation plans. Comm & Fin Chr 117: 2506 D 8 '23
Railroad and ferry traffic in 1923—325,920,315 passengers. Elec Ry J 64:936 N 29 '24

NEW YORK (city)—Railroads—*Continued*
Some things which the Erie railroad is doing; recent extensions of facilities in New York and Chicago. il Ry R 75:423-30 S 20 '24
Traffic in New York city terminals. Elec Ry J 65:659 Ap 25 '25
Unified operation of New York water front railroad. map Ry R 73:877-8 D 15 '23

See also New York (city)—Suburban traffic; New York (city)—Tunnels

Rapid transit

Analysis of New York surface transportation. Elec Ry J 64:806 N 8 '24
Average ride in New York is 1.65 miles. Elec Ry J 63:209-10 F 9 '24
Basic causes of transit troubles in New York. W: M. Wherry, jr. Aera 13:1636-42 My '25
Better metropolitan transit; Brooklyn-Manhattan transit company. A. S. Somers. Aera 12:810-16 D '23
Board of transportation reviews year's work. Comm & Fin Chr 121:200-1 Jl 11 '25
Brooklyn-Manhattan transit corporation 1st annual report, year ended June 30, 1924. Comm & Fin Chr 119:2523-4 N 29 '24
Brooklyn surface lines withdraw from Williamsburg bridge when city takes over shuttle line. Elec Ry J 62:988 D 8 '23
Change in transit law. Comm & Fin Chr 118: 3079 Je 21 '24
Commission blameless, but needless. Elec Ry J 65:312 F 21 '25
Compromise transit bill passed. Elec Ry J 63:591 Ap 12 '24
Extension of New York city rapid transit lines to New Jersey discussed. Elec Ry J 63:78-9 Ja 12 '24
Fares must meet costs; decision of New York transit commission increasing fare on New York & Queens county system one cent. J. F. Bickmore. Aera 13:10-14 Ag '24
Five-cent fare plan scotched. Elec Ry J 65: 903-4 Je 6 '25
Getting the car riders to hurry themselves home; Interborough rapid transit company educates the public to expedite traffic. W. W. Harris. Aera 12:1192-4 F '24
Hearing on subway relief. Elec Ry J 65:481 Mr 21 '25
Increasing the capacity of existing streets; advocates removal of elevated lines. A. C. Janni. Am Soc C E Pro 50:1311-14 O '24
Interborough inspection shop methods. il map Elec Ry J 64:238-42, 305-8 Ag 16, 30 '24
Interborough rapid transit co.; annual report for fiscal year ended June 30, 1923. Comm & Fin Chr 117:2886-7 D 29 '23; Abstract. Elec Ry J 63:46 Ja 5 '24
Interborough rapid transit company; annual report, year ended June 30, 1924. Comm & Fin Chr 119:2755-6 D 13 '24; Abstract. Elec Ry J 64:939 N 29 '24
Interborough rapid transit situation. Moody's Inv Serv 17:107 Mr 26 '25
Interesting local traction securities. Moody's Inv Serv 17:64 F 19 '25
Investigator becomes the investigated; Gov. Smith appoints Justice McAvoy as referee to determine actual facts. Elec Ry J 64: 971-2, 1087; 65:36 D 6, 27 '24-Ja 3 '25
Maintenance methods on the Interborough. il Elec Ry J 65:440-9 Mr 21 '25
Mayor Hylan held responsible for New York's subway ills. Elec Ry J 65:253-6 F 14 '25
Memorial praised and blamed. Elec Ry J 65: 423-4 Mr 14 '25
More than 53,000,000 fares collected at Times Square station in New York in one year. Elec Ry J 62:1030 D 15 '23
New York companies doing better. Elec Ry J 65:121-2 Ja 17 '25
New York merchants urge co-ordinate transit. Elec Ry J 65:372 Mr 7 '25
New York railways plan of reorganization. Comm & Fin Chr 120:704 F 7 '25
New York railways; reorganization plan. Comm & Fin Chr 118:2438-9 My 17 '24; Abstract. Elec Ry J 63:793 My 17 '24
New York railways reports falling off in traffic. Elec Ry J 63:951-2 Je 14 '24
New York transit securities. Moody's Inv Serv 17:54 F 13 '25
New Yorkers ride at less than cost. Elec Ry J 63:950 Je 14 '24
100,000 more riders every week on New York transit lines. W: C. Ewen. Forbes 15:102+ O 15 '24
Opportunities for investors; group of New York traction bonds. R. V. Sykes. Forbes 14:180-1 My 10 '24
Plea for relief from paving in New York. Elec Ry J 66:796-7 O 31 '25
Queens needs line. Elec Ry J 62:1097 D 29 '23
Rapid transit in New York city; summary of annual report for year ended Dec. 31, 1923. Comm & Fin Chr 118:307-8 Ja 19 '24
Rapid transit parkway proposed for New York. diag Elec Ry J 62:892 N 24 '23
Rapid transit progress, New York city. Eng & Contr (G C) 64:167-8 Jl 15 '25
Rapid transit system of New York city. R. Ridgway. il diag maps Boston Soc C E J 12: 305-25 S '25
Rapid transit traffic grows 80 per cent in ten years. Elec Ry J 65:378 Mr 7 '25
Receivership of New York railways may be lifted and company reorganized. Elec Ry J 65:123 Ja 17 '25
Retail merchants want cars; discussion between Mayor Hylan and President Huff of the Third avenue railway. Elec Ry J 64: 932 N 29 '24
$700,000,000 transit program proposed. Elec Ry J 65:517-18 Mr 28 '25
Substantial improvement reported in New York city. Elec Ry J 63:121-3 Ja 19 '24
Subway to replace L. Elec Ry J 63:669 Ap 26 '24
Super-streets and subways: tentative details of a traffic plan recommended for New York city. il map Sci Am 131:149 S '24
Third avenue railway net up $93,802. Elec Ry J 62:876-7 N 17 '23
Third avenue railway reports a decrease of $226,014. Elec Ry J 64:822 N 8 '24
Third Avenue report for the year ended June 30 shows deficit. Elec Ry J 66:844 N 7 '25
Train operation by the Interborough. il chart Elec Ry J 65:917-23 Je 13 '25
$27,061,400 of transit contracts for New York's new system. Elec Ry J 66:162 Ag 1 '25
2,700,000,000 passengers a year. Elec Ry J 62: 879-81 N 17 '23
What New York business men say about the essentiality of street car service. Aera 13: 874-8 D '24

See also Hudson river vehicular tunnel; New York (city)—Subways; New York (city)—Tunnels; Staten Island—Rapid transit; *also* Fifth avenue coach company

Sewerage

Compact underground sewage-works in lower New York. W: Goldsmith. il diags Eng N 94:611-13 Ap 9 '25

Streets

City replanning. H. W. Corbett. il Pub Works 55:258-60 Ag '24
Highway traffic in New York and its environs. H. M. Lewis and E. P. Goodrich. 125p Regional plan of New York and its environs, 130 E. 22d st, New York; Abstracts. Good Roads 67:6-9, 46-8 Jl-Ag '24; Eng N 92:941-3 My 29 '24; Review. Good Roads 68:251-2 O '25
Hundredth anniversary of a world famous thoroughfare. il Dun's Int R 44:54-6 Ja '25
Increasing the capacity of existing streets. A. S. Tuttle. il diags Am Soc C E Pro 50: 593-605 My '24; Same. Eng & Contr (R & S) 62:7-12 Jl 2 '24; Discussion. Am Soc C E Pro 50:706-27, 898-900, 1311-14 My, Ag, O '24
Invisible government of Quality street; Fifth avenue association does everything possible to reserve the Avenue for the shopper. E. C. Reeves. il Nation's Business 13:18-20 N '25
New York city motor traffic problem. H. M. Lewis. plans Ann Am Acad 116:214-23 N '24

NEW YORK (city)—Streets—*Continued*
New York city paving for 1924 cost over fourteen millions. Eng N 94:299 F 12 '25
Regional plan committee discusses traffic. Elec Ry J 63:819 My 24 '24
Report suggests innovations for relief of New York street traffic. Ry R 74:307 F 16 '24
Resurfacing Fifth Ave., New York, and Broad St., Newark, with asphalt. J. W. Howard. Munic & Co Eng 68:259-62 My '25
Teaching Father Knickerbocker to watch his step. G: E. Wallis. il Nat Safety N 8:9-12 O '23
Traffic congestion costing Manhattan $500,000 per day. L. H. Allen. Automotive Ind 53:711-12 O 22 '25
Unique two-level street obviates costly grading. H. W. Levy. il Eng N 91:853-4 N 22 '23

Suburban traffic

Interstate loop urged. map Elec Ry J 65:222 F 7 '25; Discussion. R. T. Veit. 66:14 Jl 4 '25
Plans for New York suburban transit. maps Elec Ry J 63:733-5 My 10 '24
Plans for Westchester traffic. H. M. Brinckerhoff. diags Elec Ry J 65:214-15 F 7 '25
Suburban transit plan suggested for New York city. map Eng N 92:818-20 My 8 '24
Subways for suburban trains proposed for New York. Ry Age 76:1084 My 3 '24

Subways

Celebrate twentieth anniversary of the subway. Elec Ry J 64:789 N 1 '24
Emergency protective systems in the Interborough subway. il diag map plans Elec Ry J 66:125-31 Jl 25 '25
Fewer and better subways. M. Sykes. Comm & Fin 14:343-4 F 18 '25
Hylan's subway plan to cost $400,000,000. Elec Ry J 64:1010 D 13 '24
Municipal subway suggested. Elec Ry J 64: 896 N 22 '24
Open cut and tunnel in Manhattan schist. il diags map Eng N 94:264-8 F 12 '25
Speed control in Interborough subway. il charts Elec Ry J 66:49-52 Jl 11 '25

Tunnels

Only rapid transit tunnel to be built at Narrows. Eng N 94:743 Ap 30 '25
Special contract devised for Narrows tunnel. Eng N 94:280 F 12 '25; Discussion. 94:261, 330 F 12-19 '25
Staten Island tunnel for passengers. Elec Ry J 65:668 Ap 25 '25
World's largest subaqueous tunnel; building a $60,000,000 freight and passenger tunnel beneath the Narrows, New York. il Sci Am 129:412-13 D '23

See also Hudson river tunnels; Hudson river vehicular tunnel

Water supply

Romantic history of New York's water supply. il Eng & Contr (W W) 62:587-90 S 10 '24
Secondary chlorination of New York's water supply. W: W. Brush. Eng & Contr (W W) 63:1299-1302 Je 10 '25; Same. Pub Works 56: 235-7 Jl '25; Same. Am Water Works Assn J 14:526-31 D '25; Abstract. Eng N 94:772-3 My 7 '25
World's greatest city water supply system. diags Sci Am 133:28 Jl '25

See also Catskill aqueduct

NEW YORK (state)

See also Budget—New York (state); Electric plants (central stations)—New York (state); Geology—New York (state); Hydroelectric plants—New York (state); Street railroads—New York (state); Taxation—New York (state); Wages—New York (state); Water supply—New York (state)

Bureau of municipal government

Co-operative municipal research. E: D. Greenman. Special Lib 15:235-7 D '24

Constitution

Four proposed constitutional amendments on ballot this fall. Comm & Fin Chr 121:1937-8 O 17 '25

Health, Department of

Library of division of laboratories

Library of the Division of laboratories and research of the New York state department of health. M. Williams. Special Lib 15:134-7 Je '24

Industries and resources

Average weekly earnings of men and women in New York state factories. Monthly Labor R 17:1095-6 N '23

See also Garnet; Water power—New York (state)

Politics and government

Text of home rule enabling act. Comm & Fin Chr 118:2856-7 Je 7 '24

NEW YORK canners, incorporated

Annual report, 5th, 1923. Comm & Fin Chr 118:1289 Mr 15 '24
Annual report, 6th, for year ending December 31, 1924. Comm & Fin Chr 120:1226 Mr 7 '25

NEW YORK Central railroad

Annual report for year ended Dec. 31, 1923. Comm & Fin Chr 118:2696-7, 2715-17 My 31 '24; Same. Ry Age 76:1342-4 My 31 '24; Abstract. Bradstreet's 52:350 My 31 '24; Abstract, with important improvements completed or contemplated. Ry R 74:982-4 My 31 '24
Annual report for the year ended December 31, 1924. Ry Age 78:1369-71 My 30 '25; Comm & Fin Chr 120:2827-9 My 30 '25; Annalist 25:753 Je 1 '25
Castleton cut-off of the New York Central opened to traffic. Ry R 75:890-2 N 29 '24; Ry Age 77:993-4 N 29 '24; Eng N 93:885 N 27 '24
Castleton cut-off to open Nov. 20th; New York Central's Hudson river bridge memorial to late president A. H. Smith. il diag Ry R 75:797-9 N 15 '24
Greatest railroad development of the century; the $25,000,000 A. H. Smith memorial bridge and Castleton cut-off. W. H. Main. il map Forbes 15:290-2 D 1 '24
Hudson River connecting railroad. W. F. Jordan. W Soc E J 30:411-18 O '25; Excerpt. Eng & Contr (G C) 64:1346-7 D 16 '25; Discussion. W Soc E J 30:418-19 O '25
Important addition to the nation's freight facilities; Castleton cut-off of the New York Central. il map Eng & Contr (Ry) 62:1303-5 D 17 '24
New York Central has best year in history. map Ry Age 76:1325-7 My 31 '24
New York Central net decreased. map Ry Age 78:1539-41 Je 20 '25
New York Central railroad company convertible 6s, 1935. Moody's Inv Serv 17:79 Mr 5 '25
New York Central R.R. completes Castleton cut-off. il diag maps Ry R 75:1015-24 D 27 '24
Planning and construction of New York Central lines' new Hudson river bridge. H. T. Welty. il diags plans Eng N 94:466-74 Mr 19 '25

NEW YORK, Chicago and St Louis railroad

Annual report, 1st, 1923. Ry Age 76:1185 My 10 '24; Same. Comm & Fin Chr 118:2195-6 My 3 '24
Annual report, 2d, for year ended December 31, 1924. Ry Age 78:1244-5 My 16 '25; Same. Comm & Fin Chr 120:2569-70 My 16 '25

NEW YORK cocoa exchange

New York cocoa exchange. Comm & Fin Chr 121:669, 1640-1 Ag 8, O 3 '25; Econ W n s 30:482 O 3 '25; Nat City Bank p 190-1 N '25
Name changed to Cocoa and rubber exchange of America, inc., February, 1926

NEW YORK coffee and sugar exchange
Fiasco of the government's attack upon the New York coffee and sugar exchange. A. R. Marsh. Econ W n s 27:147-8 F 2 '24
New York coffee & sugar exchange in reply to government's conspiracy charges, etc. Comm & Fin Chr 117:2388-9 D 1 '23
Sugar exchange case. Index p 3-4 F '24
United States Supreme court dismisses government's suit against New York coffee and sugar exchange. Comm & Fin Chr 118: 506 F 2 '24

NEW YORK cotton exchange
Annual report for the year ended April 30 1925. Comm & Fin Chr 120:2885 Je 6 '25
Exchange's views on trading. R: T. Harriss. Textile World 66:2821+ N 15 '24
Secretary of agriculture Gore names committee to reclassify cotton held by N.Y. cotton exchange. Comm & Fin Chr 120:1153-4 Mr 7 '25

NEW YORK cotton exchange building
New York cotton exchange building; views and plan. Am Arch 126:pl 17-22 Jl 16 '24
New York cotton exchange, New York city; views. Arch Rec 55:43-53 Ja '24

NEW YORK curb market
Transactions on the New York curb. Published in weekly numbers of Annalist and Commercial and financial chronicle
Transactions on the New York curb—1923. Annalist 23:82-3 Ja 7 '24
Transactions on the New York curb—1924. Annalist 25:75-6 Ja 5 '25

NEW YORK Edison company
New York Edison's great development. P. W. Garrett. Elec W 85:597 Mr 14 '25
This company has pioneered for forty-two years. J. Heywood. il Forbes 14:715-18+ S 15 '24

NEW YORK electric board of trade. See Electric industries—New York (city)

NEW YORK electric railway association
Annual meeting, 43d, Bluff Point, N.Y., June 26. Elec Ry J 66:7-9, 15-21 Jl 4 '25
Midwinter meeting, New York, Jan. 24. Elec Ry J 63:143-4 Ja 26 '24

NEW YORK leader (periodical)
Suspension of the New York leader, successor to the Call. Comm & Fin Chr 117: 2181 N 17 '23

NEW YORK, New Haven & Hartford railroad
Annual report, 52d, 1923. Comm & Fin Chr 118:1658-9 Ap 5 '24
Annual report, 53d, year ended Dec. 31, 1924. Comm & Fin Chr 120:1735-7 Ap 4 '25
Letter of Howard Elliott to Magnus Johnson refuting allegations against New York, New Haven & Hartford railroad and the Northern Pacific. Comm & Fin Chr 119:43-4 Jl 5 '24
Motor bus policy of the New Haven. A. P. Russell. Ry R 77:254-6 Ag 15 '25
New Haven authorized to advance commutation fares. Ry Age 79:221-2 Ag 1 '25; Ry R 77:178 Ag 1 '25
New Haven electrifies Danbury branch. H. F. Brown. il diag map Elec Ry J 66:309-15 Ag 29 '25
New Haven forms a company to operate buses. Ry Age 78:1513-14 Je 20 '25; Aera 13:2047-8 Jl '25
New Haven seeks modification of Federal decree. Ry R 77:537-8 O 3 '25
New Haven sells bonds to patrons. Ry Age 78:465-7 F 21 '25
New York, New Haven & Hartford financing. Nat City Bank p 48-9 Mr '25
New York, New Haven & Hartford railroad company securities. Moody's Inv Serv 16: 263, 432; 17:23, 56 Jl 3, N 28 '24, Ja 15, F 13 '25
When industry and transportation get together. E. G. Buckland. Ry R 76:646-8 Ap 4 '25; Same. Am Ind 25:30-1 Ap '25

NEW YORK, Pittsburgh & Chicago railroad
Hearings on proposed New York-Pittsburgh line. Ry Age 78:1631 Je 27 '25
New trans-Pennsylvania line files brief answering opposition. Ry R 77:330 Ag 29 '25
Proposed new trunk line railroad. Bradstreet's 53:562 Ag 29 '25

NEW YORK railways
Bondholders buy road. Elec Ry J 64:67 Jl 12 '24

NEW YORK special libraries association
Decennial of New York special libraries association. Special Lib 16:126-7 Ap '25

NEW YORK state barge canal
Comparison of transportation costs by rail and via Barge canal. Bur Railway Econ misc ser 36:1-16 '25
Cost of canal transportation. Ry Age 78:866-7 Ap 4 '25
Court awards contractor $400,000 for engineers' fraud; James Stewart & co., inc., win heavy damages; falsification of Barge canal plans. Eng N 93:24-5 Jl 3 '24
N.Y. barge canal is expensive luxury. A. Smith. Eng N 94:113 Ja 15 '25
Power developments on the Barge canal. il diag plan map Power Pl Eng 28:882-6 S 1 '24
Why not use the Barge canal. W. G. Bartenfeld. il Marine R 55:190-1, 219-21 My-Je '25

NEW YORK steam corporation
Additional steam lines and plant of the New York steam corporation; distribution of steam for heating and power. il Power 60: 807-8 N 18 '24

NEW YORK stock exchange
Address to the guests of the New York stock exchange. E. H. H. Simmons. Comm & Fin Chr 120:2757-8 My 30 '25
Bond record, Friday, weekly and yearly. Published in weekly numbers of Commercial and financial chronicle
Bull market of 1924-25. E. W. Axe. Annalist 26:403-4 O 2 '25
Change in rules of New York stock exchange governing bond transactions. Comm & Fin Chr 117:2385-6 D 1 '23
Course of prices in 1924 at the New York stock exchange. Comm & Fin Chr 120:163-81 Ja 10 '25
Governors of New York stock exchange adopt amendment increasing commissions on bond transactions. Comm & Fin Chr 121:1865 O 17 '25
Higher stock market commissions. Bradstreet's 52:702 N 1 '24
If Mr Cromwell asked me. A. Stote. Ptr Ink 127:25-6+ My 8 '24
Listings on the New York stock exchange for the year 1923. Comm & Fin Chr 118:482-6 F 2 '24
Listings on the New York stock exchange for the year 1924. Comm & Fin Chr 120:2990-4 Je 13 '25
Managing your brokerage account. W: W. Spaid. 64p Putnam '23
New ticker symbols to be made effective on New York stock exchange Feb. 11. Comm & Fin Chr 120:659 F 7 '25
New trading records on New York stock exchange. Comm & Fin Chr 121:2109-10 O 31 '25
New York call money market. B. Griffiss. 120p Ronald press '25
New York stock exchange transactions—1923. Annalist 23:70-81 Ja 7 '24
New York stock exchange transactions—1924. Annalist 25:62-74 Ja 5 '25
Price of New York stock exchange seats. A. Motelle. Annalist 25:679-80 My 18 '25
Proposal to increase memberships of New York stock exchange. Comm & Fin Chr 121:2109 O 31 '25
Quoted prices of active stocks on the New York stock exchange. See weekly numbers of Economic world
Short selling of stocks on trial. P. S. Krecker. Comm & Fin 13:833 Ap 30 '24
Stock and bond record, monthly and yearly. Published in monthly Bank and quotation section of Commercial and financial chronicle

NEW YORK stock exchange—*Continued*

Stock exchange has become international market. E. H. H. Simmons. Forbes 15:543+ F 1 '25

Stock exchange law, with special reference to the New York stock exchange and New York law. S: P. Goldman. 497p Ronald press '23

Stock exchange requirement for listing foreign bonds. Bradstreet's 53:113 F 14 '25

Stock record, daily, weekly and yearly. Published in weekly numbers of Commercial and financial chronicle

Stock ticker—as it was and is. J. E: Meeker. il Burroughs Clearing House 8:19-22+ Ap '24

Transactions on the New York stock exchange. Published in weekly numbers of Annalist and Bradstreet's and in monthly numbers of the Economic world

Transactions on the New York stock exchange in December and during 1923. Econ W n s 27:13 Ja 5 '24

Would tighten lines against certain depositors of banking houses. S. L. Cromwell. Comm & Fin Chr 117:2711-12 D 22 '23

Year's operations of New York stock exchange. S. L. Cromwell. Comm & Fin Chr 118:2769-73 Je 7 '24

NEW YORK telephone company

Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:2543-4 My 16 '25

J. S. McCulloh, new president of New York telephone co. O. D. Foster. il Forbes 15: 390-2+ Ja 1 '25

NEW YORK Times building

Times building, New York city. il Arch & Bldg 56:78+, pl 162-4 Ag '24

NEW YORK typographical union

Big Six celebrates diamond jubilee. G: A. Stevens. Inland Ptr 75:411-14 Je '25

NEW YORK typothetae

New York typothetae, 1865-1925. L. M. Powell. Inland Ptr 75:227-9 My '25

NEW YORK university

N.Y.U. aero course endowed by Daniel Guggenheim. Aviation 18:692 Je 22 '25

Research laboratories in aeronautics at New York university; what the Guggenheim gift will mean. il Am Mach 63:237-9 Ag 6 '25

NEW YORK, Westchester & Boston railway

New York, Westchester & Boston 4½ of 1946. Moody's Inv Serv 17:72 F 26 '25

$700,000 for interurban extension. Elec Ry J 65:321 F 21 '25

NEW YORK World

World biographical department. J. W. Wells. Special Lib 16:120-1 Ap '25

NEW ZEALAND

New Zealand's attractions. E. N. Herbert. il World's Markets 15:5-6 My '24

See also Birth rate—New Zealand; Geology—New Zealand; Hydroelectric plants—New Zealand; Labor laws and legislation—New Zealand; Railroads—New Zealand; Roads—New Zealand

Commerce

British trade in New Zealand. Elec R (Lond) 94:191 F 1 '24

Electrical imports of New Zealand. Elec R (Lond) 95:874 D 5 '24

Here is a competitor to watch. H. L. Russell. il Am Bankers Assn J 17:693-4 My '25; Same. Econ W n s 29:764-5 My 30 '25

Home trade with New Zealand. il diag Engineering 117:262 F 29 '24

New Zealand trade. Engineering 119:455-6 Ap 10 '25

Economic conditions

Effects of the trade cycle in New Zealand. A. H. Tocker. Econ J 34:128-34 Mr '24

Experiments in state control in New Zealand; Arbitration court Board of trade. J. B. Condliffe. Int Labour R 9:334-60 Mr '24

Report upon New Zealand. Elec R (Lond) 96: 232-3 F 6 '25

See also Banks and banking—New Zealand; Finance—New Zealand; Labor and laboring classes—New Zealand; Money—New Zealand

Industries and resources

New Zealand at the British Empire exhibition. il plan Engineering 118:287-90 Ag 29 '24

See also Automobile industry and trade—New Zealand; Electric industries—New Zealand

NEWARK, England

Sewerage

Sewage treatment in Newark, England. Pub Works 56:316-17 S '25

NEWARK, New Jersey

Courageous civic spirit has built Port Newark. T. S. Dayton. il map Forbes 14:21-4 Ap 12 '24

Architecture

New Centre market, Newark, N.J. il plans Am Arch 127:241-4 Mr 11 '25

Temple B'Nai Abraham, Newark, N.J. il diags plans Am Arch 127:115-18, pl 29-33 F 11 '25

Railroads

Relieving pressure on the port; the Kenna terminal. D. M. Edwards. il Am Ind 26: 15-19 S '25

NEWARK, Ohio

Engineering in the small city. Eng N 94:930 Je 4 '25

Water supply

Feature of Newark, Ohio, water softening plant. C. T. Kaiser. il Eng N 95:174-5 Jl 30 '25

NEWBURGH, New York

Rapid transit

Two years of all-bus operation in Newburgh. il map Elec Ry J 65:813-15 My 23 '25

NEWCOMEN engine

Newcomen engine. F. P. Terry. Power 58: 819 N 20 '23

NEWCOMEN society

Summer meeting, Gloucester, June 18-19. Engineer 140:18-19 Jl 3 '25

NEWFOUNDLAND

See also Hydroelectric plants—Newfoundland

Commerce

Trade good in Newfoundland. Dun's R 32:7 F 9 '24

NEWMONT mining corporation

Public launching of Newmont corporation marks new departure in American mine finance. A. B. Parsons. Eng & Min J 120:23-4 Jl 4 '25

NEWPORT NEWS, Virginia

America's greatest tobacco exporting city. Manuf Rec 86:79-80 N 13 '24

Rapid transit

Earnings keep up in Newport News company. Elec Ry J 64:790 My 16 '25

NEWPORT NEWS shipbuilding & dry dock company

One of the world's greatest ship yards at Newport News now largely changing to new lines of activity. S: G. Wilmer. Manuf Rec 85:79-82 Ap 24 '24

NEWSBOYS

Study of newsboys in Springfield, Mass. Monthly Labor R 18:97-8 Ja '24

NEWSPAPER advertising executives, Association of. See Association of newspaper advertising executives

NEWSPAPER ethics

Codes of ethics. G. L. Caswell. Inland Ptr 72:969 Mr '24

Conscience of the newspaper. L. N. Flint. 470p Appleton '25

NEWSPAPER ethics—*Continued*
Ethics of journalism. N. A. Crawford. 264p Knopf '24
Holding the news faker at bay. E: McKernon. Ptr Ink 132:129+ S 24 '25
Journalistic ethics and world affairs. Missouri U Bul v 25, no 32:1-31 '24
Newspaper code of ethics adopted as aid to business. Ptr Ink 127:53-4+ Je 19 '24

NEWSPAPER libraries
Filing systems for newspaper clippings; symposium. Special Lib 16:297-304 O '25
Newspaper libraries; their history, function and methods: a symposium by librarians in various parts of the country. Special Lib 15: 3-12 Ja '24
Newspaper library and morgue. C: B. Maugham. Special Lib 15:132-3 Je '24
Schools of journalism and the newspaper library. H. B. Center. Special Lib 16: 316-17 O '25
World biographical department. J. W. Wells. Special Lib 16:120-1 Ap '25

See also Vassar college library—Justice collection

NEWSPAPER offices
Advertiser building, Huntington, W. Va. il plans Am Arch 127:351-4 Ap 8 '25
Elizabeth daily journal building, Elizabeth, N.J.; views and plans. Arch Forum 43:pl 12-13 Jl '25
Glimpse into the plants of the Chicago Tribune company. il Ind Eng 82:462-3 O '24
Milwaukee journal in new home. il Inland Ptr 74:574 Ja '25
Newspaper architecture in Australia. il Inland Ptr 74:408 D '24
Peoria Star building, Peoria, Ill. il plans Am Arch 128:375-8 O 20 '25
Times building, New York city. il Arch & Bldg 56:78+, pl 162-4 Ag '24
Tribune tower. H. Onderdonk and others. il diags plans W Soc E J 29:443-67 D '24
Tribune tower building, Chicago. il plans Arch Forum 41:100 S '24
Tribune tower; general description of the structural work. H. J. Burt. il diags plans W Soc E J 29:451-64 D '24; Same. Eng & Contr (Bldgs) 63:629-43 Mr 25 '25

Electric equipment
Electricity in the modern newspaper pressroom; the San Francisco chronicle. J Elec 54:330, 331 My 1 '25

Equipment
Gas in the newspaper plant. H. S. Christman. Am Gas J 123:171-2+ Ag 29 '25
Material handling for high speed, straightline flow of work; new plant of the San Francisco chronicle. M. Wayman. il Management & Adm 9:425-8 My '25
Progress in newspaper making. C: W. Geiger. il Inland Ptr 75:780-1 Ag '25

NEWSPAPER publishers' association, American. See American newspaper publishers' association

NEWSPAPERS
Allied newspapers, limited, first general meeting, London, May 25. Economist 100:1098 My 30 '25
Editorial in the country newspaper. E. Sherman. Inland Ptr 72:599-600 Ja '24
Editorial writing. M. L. Spencer. 364p [bibliog. p. 363-4] Houghton '24
How a free-distribution paper succeeded; University district herald, Seattle, Washington. N. J. Radder. il Inland Ptr 74:707-9 F '25
How newspaper publishers regard radio broadcasting. A. E. Haase. Ptr Ink 131:73-4+ Ap 30 '25
How the country editor can make his paper indispensable. J. L. Simpson. Inland Ptr 73:390-2 Je '24
New publisher. R. T. Porte. Inland Ptr 72: 608-10, 774-6, 942-4; 73:94-6, 238-40, 402-4, 572-4, 734-6, 894-6; 74:78-80, 220-3, 406-8 Ja-D '24
Newspaper contact. J. Carmichael. Am Gas J 123:507+ O 31 '25
Newspaper make-up and headlines. N. J. Radder. 220p McGraw-Hill '24
Newspaper work. G. L. Caswell. Published in monthly numbers of Inland printer
President Coolidge attacks propaganda. Ptr Ink 130:25-6 Ja 22 '25
Press in relation to information bureaux and special libraries. F. E. Hamer. Chem Age (Lond) 13:348 O 3 '25
Sale and lease values of newspapers. Inland Ptr 75:441-2 Je '25
Scrutator talks to young men's forum. W Soc E J 29:[current news]92-5 My '24
Small paper's best solicitor. G. L. Caswell. Inland Ptr 73:765-7 Ag '24
Small-town newspaper. J: E: Allen. Inland Ptr 74:869-71 Mr '25
Some factors affecting newspaper circulation. R. S. Kellogg. map Paper Tr J 79:34+ D 25 '24
Why not adopt the pyramid makeup? S. J. Harris. il Inland Ptr 73:715-17 Ag '24
Why the ideal country weekly should be a mirror of the community. J. L. Simpson. Inland Ptr 72:754-6 F '24
Women and the newspaper. Missouri U Bul v 25, no 26:1-29 '24
Women's clubs from a new angle. M. A. Foster. Inland Ptr 72:430-1 D '23
Writer and the publisher. Missouri U Bul v 25, no 17:1-72 '24

See also Advertising—Rates; Advertising mediums—Newspapers; Audit bureau of circulations; Editors; House organs; Journalism; Newspaper libraries; Newspaper offices; Periodicals; Press agents; Printing, Practical; Reporting; Trade journals; *also* American press association; Associated press; Pacific coast and intermountain newspaper executives

Accounting
Budgeting for the newspaper. A. Lazarus. J Account 38:174-82 S '24
Newspaper accounting and cost finding. W. B. Swindell. 87p Ronald press '24

Advertising
Consider the newspaper publisher as a manufacturer. A. L. Carmical. Ptr Ink 131:53-4+ My 14 '25
How a newspaper uses advertising to increase its business. J. M. Cleary. Ptr Ink 125:121-3 N 29 '23
Really advertising newspaper advertising. Inland Ptr 73:77-8 Ap '24

See also Advertising mediums—Newspapers

Advertising service
Ideas for the small-town publisher; job printing plant. D. D. Patterson. Inland Ptr 74: 701-2 F '25
Merchandising service in newspaper advertising. S. M. Thompson. Harvard Business R 3:340-7 Ap '25
Selling the advertising idea. F. Kutnewsky. Inland Ptr 75:217-18 My '25

Bibliography
Journalism; a bibliography. C. L. Cannon, comp. 360p Public library, New York '24
Justice collection of material relating to the periodical press. L. M. Salmon. Special Lib 16:310-15 O '25

Employees
Preventive dentistry service for newspaper employees; Chicago Tribune employees' benefit plan. Nation's Health 7:194-5 Mr '25

Finance
Two-dollar subscription rate. R. T. Patten. Inland Ptr 72:921-3 Mr '24

Indexes
The Baltimore Sun. W. F. Coyle. Special Lib 16:308-10 O '25
Newspaper index; the New York Times. J. Welland. Special Lib 16:304-7 O '25

NEWSPAPERS—Indexes—*Continued*
Published newspaper index. J. Welland. Lib J 49:177-8 F 15 '24
The Springfield Union. E. E. Pine. Special Lib 16:307-8 O '25

Management
How one newspaper secured farm sales advertising. N. J. Radder. il plan Inland Ptr 73:433-5 Je '24
Plan to build up your national advertising. G. L. Caswell. Inland Ptr 75:269-70 My '25
Planning that gains economies in time and motion. S: P. Weston. System 46:352-3 S '24
Popularizing the job-printing department. F. V. Faulhaber. Inland Ptr 75:892-4 S '25

Preservation
Paper preserving processes. A. Weston. Special Lib 15:29-31 F '24
Preservation of old newspapers. M. Symonds. Special Lib 16:317-18 O '25
Preserving the records; coating newspapers with Japanese tissue. P. L. Sperr. Inland Ptr 72:596-7 Ja '24

Transportation
Carrying newspapers—a by-product which pays double dividends. Bus Transportation 4:222 My '25
Conveying bundles of newspapers. il Cassier's Ind Management 11:273-4 My 15 '24

NEWSPRINT paper
Meet regarding definition of standard news print. Paper Tr J 80:80 Ap 2 '25
Proposed change in news print definition discussed. Paper Tr J 80:31+ My 7 '25
Standard news print defined by Treasury department. Paper Tr J 81:25-6 Jl 9 '25
Standard newsprint paper; Secretary of the treasury defines the term. R. S. Kellogg. Paper 34:804 Ag 21 '24

See also Paper industry and trade—United States

NEWTON, Sir Isaac
Newton and the peacock. W. D. Bancroft. J Phys Chem 28:351-9 Ap '24

NEWTON, Massachusetts

Water supply
Sub-surface collecting system and quality of water of Newton, Mass. E. H. Rogers. N E Water Works Assn J 37:312-14 S '23

NIAGARA falls
Big four in earth's water powers. H. P. Quick. maps Can Eng 47:189-92 Jl 29 '24
Company builds model to show effect on beauty from variations of draft and from weirs. Elec W 83:1345 Je 28 '24
Increase in Niagara diversion authorized. Elec W 86:867-8 O 24 '25
Model of Niagara to demonstrate flow control. il Eng N 92:1099 Je 26 '24
Niagara falls are committing suicide. map Sci Am 132:335+ My '25
Niagara falls could produce 2,500,000 hp. more power. S: S. Wyer. Power 61:122 Ja 20 '25
Niagara falls: its power possibilities and preservation. S: S. Wyer. 28p Smithsonian inst., Washington, D.C. '25
Niagara falls scenic tunnel. il Can Eng 47: 386 S 30 '24
St Lawrence commission sees model of Niagara falls demonstrated. il Power 59:1050-1 Je 24 '24
Some problems at Niagara falls. il Can Eng 49:520-1 N 3 '25
Survey shows how Niagara falls is receding. map Eng N 95:636-7 O 15 '25
What shall be done with Niagara? il Sci Am 133:123 Ag '25

See also Hydroelectric plants—Ontario; Queenston-Chippawa canal

Bridges
Bridge at Falls declared safe. il Can Eng 48:621-2 Je 30 '25

Lighting
Illumination of Niagara falls. il Can Eng 48: 448 Ap 28 '25
Permanent spectacular illumination for Niagara falls. il Elec W 86:106 Jl 18 '25

NIAGARA Falls, New York

Railroads
Michigan Central R.R. completes Niagara arch. il diags plan Ry R 76:448-58 Mr 7 '25
Grade crossing elimination ordered at Niagara Falls, N.Y. Ry R 74:215 F 2 '24

NIAGARA Falls, Ontario

Sewerage
Muddy Run trunk sewer, Niagara Falls, Ont. E. M. Proctor. il diags plans Can Eng 45: 561-5 D 11 '23

NIAGARA Falls power company
Annual report for 1923. Comm & Fin Chr 118: 1037-9 Mr 1 '24
First plant of the Niagara Falls power company. L: B. Stillwell. il Elec W 84:617-18 S 20 '24
Niagara tablet unveiled. il Elec W 85:113 Ja 10 '25

NIAGARA river
Niagara river and power plants on the American side. E. R. Riegel. 70p University of Buffalo, Buffalo, N.Y. '23
Water diversion at Niagara. Eng N 95:524 S 24 '25

NICARAGUA

See also Banks and banking—Nicaragua; Debts, Public—Nicaragua

Commerce
Commerce of Nicaragua; latest reports from Nicaraguan official sources. 10p Pan American union, Washington '23
Nicaragua; a review of commerce and industries, 1918-1923. U S Bur For & Dom Com Trade Information Bul 255:1-16 '24

NICHOLS, Ernest Fox, 1869-1924
Sketch. por Elec W 83:894 My 3 '24

NICHOLS medal
Dr E. C. Franklin gets Nichols medal for 1924. Oil Paint & Drug Rep 107:20 Mr 9 '25

NICHROME
Nichrome alloy successfully used to strengthen castings. il Automotive Ind 53:295-6 Ag 20 '25
Sheets for chemical and heat resistance. Chem & Met Eng 31:979 D 22 '24

NICKEL
Anhysteretic magnetostrictive effects in iron, nickel and cobalt. P. McCorkle. Phys R 25:541-9 Ap '25
Anhysteretic qualities of iron and nickel and the energy change at the critical temperature. J. R. Ashworth. Philos Mag 6th ser 47:848-59 My '24
Application of X-ray crystallometry to the structure of nickel catalysts. G: L. Clark, W. C. Asbury and R. M. Wick. il diag Am Chem Soc J 47:2661-71 N '25
Die atomanordnung des magnetischen und des unmagnetischen nickels. Elektrotech Zeit 45: 249 Mr 20 '24
Atomic heat capacities of iron and nickel at low temperatures. W. H. Rodebush and J: C. Michalek. diag Am Chem Soc J 47:2117-21 Ag '25
Bit of nickel history. Am Mach 61:642 O 23 '24
Cast iron alloyed with nickel. P. D. Merica. Foundry 52:131-3 F 15 '24; Same. Iron Tr R 74:555-6 F 21 '24
Catalysis at solid surfaces. E. F. Armstrong and T. P. Hilditch. Soc Chem Ind J (Chem & Ind) 44:701-9 Jl 10 '25
Critical potentials in secondary electron emission from iron, nickel, and molybdenum. R. L. Petry. diag Phys R 26:346-59 S '25
Critical potentials of hydrogen in the presence of nickel catalyst. A. W. Gauger. diag Am Chem Soc J 46:674-80 Mr '24

NICKEL—*Continued*
Effect of small quantities of nickel upon high-grade bearing metal. A. H. Mundey and C. C. Bissett. Engineering 116:347-9 S 14 '23; Same. Metal Ind 21:433-4 N '23; Same. Brass W 20:15-16 Ja '24
Furnace installation for heating nickel. G: Ellerton, jr. il Iron Age 114:1595-7 D 18 '24
How metals stand up against corrosion. Chem & Met Eng 31:75-7 Jl 14 '24; Same. Brass W 20:310-11 S '24
Influence of nickel and chromium upon gray and malleable cast iron. L. Northcott. Foundry 53:241 Mr 15 '25
Introduction of carbonaceous matter in electrodeposited iron and nickel. P. K. Frölich. Am Electrochem Soc Trans v 46 (preprint 12):171-87 O '24
Machining monel metal and nickel. diags Mach 30:287-8 D '23
Malleability and metallography of nickel. P. D. Merica and R. G. Waltenberg. il U S Bur Stand Tech Pa 281:155-82 '25; Abstracts. Metal Ind 23:98 Mr '25; Engineer 140:sup127 Ag 28 '25; J Fr Inst 200:384-6 S '25
Marketing of nickel. E: H. Robie. Eng & Min J 118:129-31 Jl 26 '24
Mineral industry of the British Empire and foreign countries; statistics, 1919-1921. 20p Gt. Brit. Imperial mineral resources bur., London '24
New uses and applications of nickel and its products. E. A. Turner and R. L. Suhl. Metal Ind 22:4 Ja '24
Nickel. T: W. Gibson. Eng & Min J 119:89-90 Ja 17 '25
Nickel and its alloys. 2d ed. U S Bur Stand Circ 100:1-131; Bibliography. 132-62 '24
Nickel anodes. C. T. Thomas and W. Blum. il Am Electrochem Soc Trans v 45 (preprint 10):135-56 Ap '24
Nickel consumed by automotive industry totalled 9,000,000 lb. in 1924. Automotive Ind 52:1074 Je 18 '25
Nickel in brass and white metal. W. M. Corse. Metal Ind 22:234-5 Je '24; Same. Brass W 20:397-8 N '24; Same cond. Foundry 52: 487-8 Je 15 '24
Nickel in cast iron. Mach 30:668 My '24
Nickel in 1923. Brass W 20:285 Ag '24
Nickel, monel since the war. J. A. Wadhams. Brass W 20:185 My '24
Nickel ores. W. G. Rumbold. 81p J. Murray, London '23; Review. Engineering 117:102 Ja 25 '24
Nickel production in Canada. Blast F & Steel Pl 12:466 O '24
Non-magnetic films of nickel. L. R. Ingersoll and S. S. De Vinney. Phys R 26:86-91 Jl '25
Occurrence of vanadium and nickel in petroleum. E. DeGolyer. Econ Geol 19:550-5; Discussion. 555-8 S '24
Organic reactions at the surfaces of dehydrogenating catalysts. H. Adkins and W. A. Lazier. Am Chem Soc J 46:2291-2305 O '24
Promoter action of thoria on nickel catalysts. W: W. Russell and H. S. Taylor. diags J Phys Chem 29:1325-41 O '25
Significance of nickel in petroleum. W: Ramsay. Inst Pet Tech J 10:87-91 F '24
Study of the mechanism of the catalytic decomposition of ethyl acetate by nickel at various elevated temperatures. J. N. Pearce and C. N. Ott. J Phys Chem 28:1201-10 N '24
Thin films of platinum and nickel and catalytic activity. A. W. Gauger. diag Am Chem Soc J 47:2278-82 S '25
Use of iron or nickel crucibles for alkali determinations. A. W. Epperson and R. B. Rudy. Ind & Eng Chem 17:35 Ja '25
Use of nickel in the brass foundry. W. M. Corse. Brass W 21:317-20 S '25

See also Mond nickel company

Analysis

Alpha-furildioxime as a reagent for the detection and determination of nickel. B. A. Soule. Am Chem Soc J 47:981-8 Ap '25
Hygienic significance of nickel; detection and estimation of minute amounts of nickel in biologic material. K. R. Drinker and others. bibliog J Ind Hygiene 6:344-50 D '24
Séparation du nickel et du fer d'avec le chrome par électrolyse. E. Rousseau. Chimie & Ind 13:199-201 F '25
Standard methods of chemical analysis of nickel. Am Soc T M Standards 1923:25-9

Bibliography

Nickel and its alloys. 2d ed. U S Bur Stand Circ 100:132-62 '24

Physiological effect

Hygienic significance of nickel. K. R. Drinker and others. J Ind Hygiene 6:307-56 [bibliog. p. 339-44, 350] D '24

See also Nickel eczema

NICKEL acetates
Electrolytic production of cobalt and nickel triacetates from the diacetates; the electrolytic production of nickel trichloride. C. Schall and H. Markgraf. diag Am Electrochem Soc Trans v 45 (preprint 8):119-28 Ap '24

NICKEL alloys
Admiralty nickel. W: B. Price. Metal Ind 23:7 Ja '25
Cathodic behavior of nickel-iron alloys. S. Glasstone. Elec R (Lond) 93:955 D 21 '23
Endurance properties of alloys of nickel and of copper. D. J. McAdam, jr. Engineer 139:sup55-60 Ap 24 '25; Abstract. Eng N 94: 527 Mr 26 '25
Malleability and metallography of nickel. P. D. Merica and R. G. Waltenberg. il U S Bur Stand Tech Pa 281:155-82 '25
New researches on various nickel brasses and their thermal treatments. L. Guillet. Engineer 140:sup157-9 O 30 '25
Nickel and electrical engineering. F. B. H. White. Electrician 93:610+ N 28 '24
Nickel and its alloys. 2d ed. il U S Bur Stand Circ 100:1-131; Bibliography. 132-62 '24
Nickel increases hardness of cylinder castings. Automotive Ind 50:505 F 28 '24
Oxidation of copper-nickel alloys at high temperatures. N. B. Pilling and R. E. Bedworth. Ind & Eng Chem 17:372-6 Ap '25
Some alloys of nickel and molybdenum. Engineer 139:sup93-5 Je 26 '25
Some electrical properties of copper-nickel-manganese alloys. N. B. Pilling. Am Electrochem Soc Trans v 48 (preprint 2):9-24 S '25
Some electrical properties of high-resistance alloys. M. A. Hunter and A. Jones. Am Soc T M Pro 24 pt 2:401-15 '24
Tabular presentation of chemical and physical properties of corrosion-resisting alloys. Chem & Met Eng 31:79-83 Jl 14 '24
Les traitements thermiques de certains laitons au nickel. L. Guillet. Génie Civil 86: 489 My 16 '25
Urges use of nickel alloys. W. R. Barclay. Foundry 51:873-4 N 1 '23; Same. Iron Tr R 74:489+ F 14 '24

See also Monel metal; Nichrome; Nickel steel; Thermalloy

NICKEL bomb (for steam research)
Report on progress in steam research at the Massachusetts institute of technology. F: G. Keyes. diags Mech Eng 47:105-6 F '25

NICKEL chlorides
Electrolytic production of cobalt and nickel triacetates from the diacetates; the electrolytic production of nickel trichloride. C. Schall and H. Markgraf. diag Am Electrochem Soc Trans v 45 (preprint 8):119-28 Ap '24

NICKEL chromium alloys
Heating by electricity in the chemical industries. R. M. Keeney. il Chem & Met Eng 32:805-9 O '25

See also Nichrome; Nickel chromium steel

NICKEL-chromium steel

Change points in some nickel-chromium steels. W. T. Griffiths. bibliog diags Iron & Steel Inst J 108:133-66, pl 10-13a; Discussion. 167-71 no 2 '23

Refining metals electrically. L. J. Barton. Foundry 53:272-4 Ap 1 '25

NICKEL compounds

Magnetic rotary dispersion of certain paramagnetic solutions. R. W. Roberts. Philos Mag 6th ser 49:397-422 F '25

NICKEL eczema

Nickel eczema or itch; its cure. Brass W 20: 23 Ja '24

Treatment of nickel itch. S. Herrick. Brass W 20:240-1 Jl '24; Abstract. Metal Ind 22: 284 Jl '24

NICKEL hydroxide

Colloidal nickel hydroxide. O. F. Tower. J Phys Chem 28:176-8 F '24

NICKEL metallurgy

Manufacture and applications of nickel. M. Cook. Chem Age (Lond) 13:sup9-11 Ag 1 '25

Metallurgy of nickel. W. G. Rumbold. Chem Age (Lond) 11:554-5 N 29 '24

Non-ferrous metallurgy in America; abstracts. W. M. Corse. Iron Age 114:693-4 S 18 '24; Engineering 118:376-7 S 12 '24

Electrometallurgy

Chemistry of the Hybinette nickel-refining process. F. E. Lathe. il Soc Chem Ind J 44:433-8, 443-4 Ag 21-28 '25

Hydrogen ion measurements in the electrometallurgy of nickel. W: A. Mudge. bibliog il Am Electrochem Soc Trans v 47 (preprint 16):181-201 Ap '25

Mechanically perfect electrolytic nickel. C: P. Madsen. Am Electrochem Soc Trans v 45 (preprint 28):371-8 Ap '24; Same. Metal Ind 22:320-1 Ag '24

Raising tank-house efficiency in the British America nickel refinery; Hybinette process. F. E. Lathe. Eng & Min J 120:5-9 Jl 4 '25

NICKEL mines and mining

Ontario

Ore deposition at the Creighton nickel mine, Sudbury, Ontario. J. E. Spurr. il Econ Geol 19:275-80 Ap '24

Transvaal

Magmatic nickel deposits of the Bushveld complex in the Rustenburg district, Transvaal. P. A. Wagner. 181p South Africa geological survey, Pretoria '24

NICKEL ores

Alaskan nickel minerals. A. F. Buddington. Econ Geol 19:521-41, pl 9 S '24

Magmatic sulphide ore from Chicagof Island, Alaska. P. F. Kerr. il Econ Geol 19: 369-76 Je '24

Nickel ores from Key West mine, Nevada. W. Lindgren and W. M. Davy. il Econ Geol 19:309-19, pl 7-8 Je '24

Study of the Sudbury ore deposits. A. Wandke and R. Hoffman. diags Econ Geol 19:169-204, pl 5-6 Mr '24; Discussion. 19: 677-81; 20:382-8 N '24, Je '25

NICKEL oxides

Mechanism of the inhibition of the catalytic action of platinum black and partially reduced nickel oxide by chlorine. M. C. Boswell and C. H. Bayley. J Phys Chem 29:11-19 Ja '25

Reduction of nickelous and ferric oxides by hydrogen. A. F. Benton and P. H. Emmett. Am Chem Soc J 46:2728-37 D '24

NICKEL Plate railroad. See Van Sweringen system

NICKEL plating

Acidity of cobalt and nickel plating baths—use of the oxygen electrode. G. H. Montillon and N. S. Cassel. Am Electrochem Soc Trans v 45 (preprint 1):1-11 Ap '24; Same. Brass W 20:167-9 My '24

Adhesion of deposited nickel to base metal. E. A. Ollard. il diags Brass W 21:261-3 Ag '25

Art of electroplating. Brass W 20:394 N '24

Black nickel plating. H. B. Maxwell. Metal Ind 22:449 N '24

Conductivity of nickel depositing solutions. L. D. Hammond. Am Electrochem Soc Trans v 45 (preprint 13):181-8 Ap '24; Same. Brass W 20:215-16 Je '24

Control of nickel solutions. H. B. Maxwell. diags Metal Ind 23:108-10 Mr '25

Diseases of nickel deposits. W: Voss. Metal Ind 22:66-7, 153-4 F, Ap '24

Double-wedge comparator. E. D. Stirlen. diags Brass W 20:235-6 Jl '24; Same cond. Metal Ind 22:164 Ap '24

Durability of plated surfaces. W. M. Phillips. il Soc Auto Eng J 15:461-3 N '24; Same. Metal Ind 23:65-6 F '25; Same cond. Am Mach 61:738-9 N 6 '24; Abstract. Brass W 20:416 D '24; Discussion. Soc Auto Eng J 15:392+; 16:73-6 N '24, Ja '25

Electrodeposition of nickel; comparative value of magnesium sulphate vs. sodium sulphate. C: H. Proctor and O. J. Sizelove. Metal Ind 23:415-16 O '25

Electro-plating research; abstract. W: Blum. Metal Ind 22:154 Ap '24

Finishing auto bumpers. T. C. Eichstaedt. Metal Ind 22:359 S '24

Fluorine determination in nickel-depositing solutions. L. D. Hammond. Ind & Eng Chem 16:938-9 S '24

Improved nickel-plating methods. W. H. Graves. Soc Auto Eng J 16:86-9 Ja '25; Abstract. Automotive Ind 51:756 O 30 '24; Discussion. Soc Auto Eng J 15:391-2; 16:89-91 N '24, Ja '25

Nickel plating aluminum. C. H. Proctor. diag Metal Ind 22:282 Jl '24

Nickel plating die castings. B. E. Miller and R. L. Shepard. Metal Ind 23:69 F '25

Nickel plating of zinc and zinc-base die castings. M. R. Thompson. bibliog Am Electrochem Soc Trans v 47 (preprint 9):103-25 Ap '25

Nickel plating on steel. Blast F & Steel Pl 12:126 F '24; Same abr. Iron Tr R 73:1735 D 27 '23

Plates base metal with nickel. J: D. Knox. il Iron Tr R 77:247-8+ Jl 30 '25

Plating investigations. Metal Ind 22:360-1 S '24

Protective value of nickel plating. C. T. Thomas and W. Blum. Am Electrochem Soc Trans v 48 (preprint 8):75-92 S '25; Same. Brass W 21:344-9 O '25

Quality of nickel finish is improved by Packard researches. il diags Automotive Ind 50: 676-8 Mr 20 '24

Renovating interior trimmings of passenger cars. il Ry Mech Eng 99:100-3 F '25

Rust resistance of nickel-plated steel. E. M. Baker. il diags plan Soc Auto Eng J 14:127-33 F '24; Excerpts. Brass W 21:161-3 My '25; Discussion. Soc Auto Eng J 15:300-1 O '24

Survey of nickel solutions. J. Haas, jr. Metal Ind 19:364-6; 20:430-1; 21:64-5, 230-1, 273-4, 484-7; 22:18-19 S '21, N '22, F, Je-Jl, D '23-Ja '24

Throwing power, cathode potentials and efficiencies in nickel deposition. H. E. Haring. il Am Electrochem Soc Trans v 46 (preprint 15):209-31 O '24

Use of lead and glycerin for bright nickel. R. L. Shepard. Brass W 20:416 D '24

Value of accurate acidity control in nickel solutions. Brass W 20:392 N '24

See also Nickel eczema

NICKEL silver

Annealing cracking of the nickel silvers. E. O. Jones and E. Whitehead. Metal Ind 23:400 O '25

List of alloys. W: Campbell. Am Soc T M Pro 22 pt 1:224-7 '22; Same. Metal Ind 21: 474-6 D '23

Use of nickel in the brass foundry. W. M. Corse. Brass W 21:317-20 S '25

NICKEL silver—*Continued*
Use of rare metals in the production of German silver. E. G. Jarvis. Brass W 20:138 Ap '24

NICKEL steel
How to identify nickel and other steels at the bins. H. C. Knerr. Automotive Ind 49: 1253-4 D 20 '23
Nickel steels in common use. Am Mach 61:644 O 23 '24
Occurrence of grain growth in steel. A. A. Blue. il Iron Age 113:716-18, 1271-3 Mr 6, My 1 '24
Properties of nickel-copper steel. J. A. Jones. Can Chem & Met 8:264-5 N '24
Refining metals electrically. L. J. Barton. Foundry 53:189-92, 233-6 Mr 1-15 '25
Strength properties of wrought iron, mild steel and nickel steel at high temperatures. H. Carrington. il Engineering 117:69-71 Ja 18 '24
Les transformations thermiques des aciers et les anomalies des alliages spéciaux. P. Chevenard. Génie Civil 87:85-8 Jl 25 '25
Die verschiebung des perlitpunktes durch nickel und chrom. N. H. Aall. il Stahl & Eisen 44:256-9 Mr 6 '24; Discussion. 45:544-6 Ap 9 '25
Weichmachen eines martensitischen nickelstahls. N. H. Aall. Stahl & Eisen 44:1080-1 S 4 '24

See also Nickel-chromium steel

Testing

Endurance range of steel. D. J. McAdam, jr. Am Soc T M Pro 24 pt 2:574-600 [bibliog. p. 599-600]; Discussion. 601-17 '24

NICOL prism
Seeing colors through a Nicol prism. W. C. Durfee. Am Dyestuff Rep 13:575-7 S 8 '24; Discussion. H. S. Busby. 13:792-4 D 1 '24

NICOTINE
Deterioration of soap-nicotine preparations. C. C. McDonnell and E. J. Nealon. Ind & Eng Chem 16:819-21 Ag '24
Does nicotine combine with calcium ions? R. M. Chapin. Am Chem Soc J 47:892-4 Mr '25
Graham and Carr's supposed calcium-nicotine combinations. Am Chem Soc J 46:1539-40 Je '24
Nicotine soaps. L. F. Hoyt. Ind & Eng Chem 16:1171-2 N '24
Toxicity of nicotine as an insecticide and parasiticide. E. R. deOng. Ind & Eng Chem 16:1275-7 D '24

NIEPCE engine
Reconstitution du moteur à explosion des frères Niepce, de 1806. P. Clerget. diags Génie Civil 86:487-9 My 16 '25
Reconstruction of the explosion motor of the Niepce brothers from 1806. P. Clerget. J Fr Inst 199:784 Je '25

NIGERIA
Development of Nigeria's resources. Economist 100:700 Ap 11 '25

See also Railroads—Nigeria; Tin mines and mining—Nigeria

NIGHT work
Night work in bakeries. Int Labour R 9:558-72, 680-707; 10:562-5 Ap-My, O '24
Training workers at night. M. B. Lloyd. il Factory 31:754-5 D '23

NILE river
Le barrage de Sennar, sur le Nil Bleu et l'irrigation de la plaine de Gezira (Haute-Égypte). il diags map Génie Civil 85:500-3 N 29 '24
Race with nature; construction of the Sennar dam, on the Blue Nile. H. J. Shepstone. il map Sci Am 132:26-7 Ja '25

NITER. See Potassium nitrate

NITER cake
Nitre cake for bleaching and dyeing. A. B. Norton. Textile Col 45:631-3, 706-11, 771 O-D '23

NITRATE of potash. See Potassium nitrate

NITRATE of soda. See Sodium nitrate

NITRATE plants
Concentrating nitric acid at Norwegian plant. N. Titlestad. diag Chem & Met Eng 29: 917-18 N 19 '23
Famous nitrate fires of history. C: E. Munroe. il Chem & Met Eng 31:962-6 D 22 '24
Jersey City nitrate fire. il map Chem & Met Eng 31:960 D 22 '24
Die kalkstickstoff-fabrik von Lannemezan; abstract. Elektrotech Zeit 45:250 Mr 20 '24

See also Muscle Shoals project

Electric equipment

Electricity in the Chilian nitrate works. il Elec R (Lond) 97:44-5 Jl 10 '25

NITRATE plants, Federal
Possible agricultural utilization of U.S. nitrate plant no. 2, Muscle Shoals, Ala. plan Ind & Eng Chem 16:64-5 Ja '24

NITRATES
Agricultural value of some of the newer nitrogenous fertilizers. J. G. Lipman and H. C. McLean. Ind & Eng Chem 17:190-2 F '25
America must find more nitrogen. H. Fergusson. il Nation's Business 12:60+ N '24
L'augmentation de la production d'azote combiné indispensable à l'agriculture française. Génie Civil 83:519-20 N 24 '23
Chemistry in world affairs. H. E. Howe. il Sci Am 133:25 Jl '25
Effects of nitrate on current efficiency of plating solutions. P. A. Nichol and O. P. Watts. Am Electrochem Soc Trans v 48 (preprint 15):151-3 S '25
Giant power and national defense. W: Crozier. Ann Am Acad 118:100-6 Mr '25
L'industrie de l'azote; sa situation actuelle en France. J. H. Lucas. Chimie & Ind 14:315-18 Ag '25; Abstract. Génie Civil 87: 469 N 28 '25
Manufacture of nitric acid and nitrates. A. Cottrell. Rev. ed. 469p Van Nostrand '23
Nitrogen survey; the nitrogen situation in European countries. H. A. Curtis and F. A. Ernst. U S Bur For & Dom Com Trade Information Bul 270:1-49 '24; Abstract. Oil Paint & Drug Rep 106:20 S 29 '24

See also Ammonium nitrate; Muscle Shoals project; Nitrogen fixation; Potassium nitrate; Sodium nitrate

Analysis

Accurate determination of nitrates in soils; phenoldisulfonic acid method. H. J. Harper. bibliog Ind & Eng Chem 16:180-3 F '24
Determination of nitrate nitrogen; a colorimetric method. F. M. Scales and A. P. Harrison. Ind & Eng Chem 16:571-2 Je '24
Modification of Scales' method for determination of nitrates. P. L. Hubbard. Ind & Eng Chem 17:58 Ja '25
New organic reagent for the detection of nitrates and perchlorates. C. S. Marvel and V. du Vigneaud. Am Chem Soc J 46:2661-3 D '24

NITRATION
Nitrating apparatus. diag Chem & Met Eng 30:521 Mr 31 '24
Nitration by means of a mixture of nitrosulfonic and fuming nitric acids. P. S. Varma and D. A. Kulkarni. Am Chem Soc J 47:143-7 Ja '25
Nitration of *p*-bromoacetanilide. R. H. Griffith. Chem Soc J 125:940-1 Ap '24
Nitration of *m*-chlorophenol. H. H: Hodgson and F. H. Moore. Chem Soc J 127:1599-1604 Jl '25
Nitration of *p*-dichlorobenzene. H. J. Page and B: R: Heasman. Chem Soc J 123:3247-55 D '23
Nitration of hexamethylenetetramine. G: C. Hale. Am Chem Soc J 47:2754-63 N '25
Nitration of *m*-meconine. J. N. Rây and R. Robinson. Chem Soc J 127:1618-23 Jl '25
Nitration of para-carboxy-phenoxyacetic acid. W. G. Christiansen. Am Chem Soc J 47:1158-62 Ap '25
Nitration of stereoisomeric aromatic diamines. G. T. Morgan and W. J: Hickinbottom. Soc Chem Ind J 43:307-10 O 17 '24

NITRATION—*Continued*
Nitration of the carbonate and ethyl carbonate of *m*-hydroxybenzaldehyde. F: A. Mason. Chem Soc J 127:1195-9 My '25
Nitration of 2:3-dimethoxybenzaldehyde. W: H: Perkin, jr., R. Robinson and F. W. Stoyle. Chem Soc J 125:2355-8 N '24
Studies in nitration; mononitration of phenol. F. Arnall. Chem Soc J 125:811-16 Ap '24
Studies in nitration; the velocity of nitration of phenol. F. Arnall. Chem Soc J 123:3111-15 D '23
Studies in the anthracene series. E: de B. Barnett and J. W. Cook. Chem Soc J 123: 2631-42 O '23
Substitution in resorcinol derivatives; nitration of derivatives of β-resorcylaldehyde. M. G. S. Rao, C. Srikantia and M. S. Iyengar. Chem Soc J 127:556-60 Mr '25
Substitution in the benzene nucleus on nitration of 2-phenylglyoxaline and its carboxylic acids. F. L. Pyman and E. Stanley. Chem Soc J 125:2484-8 D '24

NITRIC acid
Action of metals on nitric acid. W. D. Bancroft. J Phys Chem 28:475-93 My '24
Action of mixtures of nitric and hydrochloric acids on acetone. W. J. Boyd. Soc Chem Ind J 44:222 My 8 '25
Action of nitric acid on coal. Gas J (Lond) 164:717 D 12 '23
Action of nitric acid on metals. N. R. Dhar. J Phys Chem 29:142-59 F '25
Air bleaching of nitric acid. W. G. Whitman and L. Evans. Am Inst Chem Eng Trans v 14:81-9 '21-'22
Disintegration of carbon anodes in aqueous solutions of nitric acid. H. J. M. Creighton and W. H. Ogden. Am Electrochem Soc Trans v 48 (preprint 17):161-5 S '25
Influence of mercury and other impurities on the rate of oxidation of white arsenic by nitric acid. C. M. Smith and G. E. Miller. Ind & Eng Chem 16:1168-71 N '24
Influence of nitric acid on the stability of diazonium and nitroso compounds. E. Knecht and J. H. Platt. Soc Dyers & Col J 41:275-8 Ag '25
Mercerization with nitric acid. P. P. Budnikoff. Textile World 64:3835+ D 29 '23
Mercerization with the aid of nitric acid. Am Dyestuff Rep 14:710-11 O 19 '25
Nitration by means of a mixture of nitrosulfonic and fuming nitric acids. P. S. Varma and D. A. Kulkarni. Am Chem Soc J 47:143-7 Ja '25
Nitric acid. Chem & Met Eng 31:64-5 Jl 14 '24
Quantitative determination of reduction products of free nitric acid solutions: namely —nitrogen peroxide, nitric oxide, nitrous oxide, nitrogen, nitrous acid and salts of hydroxylamine, hydrazine and ammonia. L. H. Milligan. diags J Phys Chem 28:544-78 Je '24
Reduction of free nitric acid by means of ferrous stannous, or titanous salts. L. H. Milligan and G. R. Gillette. J Phys Chem 28:744-57 Jl '24
Titanous chloride and nitric acid. M. Coblens and J. K. Bernstein. J Phys Chem 29: 750-2 Je '25
Vapor pressure of aqueous solutions of nitric acid. G. B. Taylor. bibliog Ind & Eng Chem 17:633-5 Je '25

Analysis
Detection of nitric acid and nitrates in concentrated sulphuric acid. J. Wilson. Soc Chem Ind J 44:438 Ag 21 '25

Manufacture
Acid-resisting iron for nitric acid plant. S. J. Tungay. diags Chem Age (Lond) 11:sup25-7 O 4 '24
Catalyzers for the oxidation of ammonia. W. W. Scott. il diag Ind & Eng Chem 16: 74-82 Ja '24
Concentrated nitric acid; patent. Chem & Met Eng 31:392-3 S 8 '24
Concentrating dilute nitric acid. C. D. Carpenter and J. A. Babor. bibliog diags Am Inst Chem Eng Trans v 16 pt 1:111-48 '24; Abstract. Chem & Met Eng 31:260-2 Ag 18 '24
Concentrating dilute nitric acid solutions. C. D. Carpenter and J. Babor. diag Am Inst Chem Eng Trans v 14:67-78; Discussion. 78-9 '21-'22
Concentrating nitric acid at Norwegian plant. N. Titlestad. diag Chem & Met Eng 29: 917-18 N 19 '23
Equipment for nitric acid production. F. C. Zeisberg. il diags Chem & Met Eng 30:778-81 My 19 '24
Making pure nitric acid economically. A. Hough. il diag Chem & Met Eng 32:373-6 Mr '25
Manufacture of nitric acid and nitrates. A. Cottrell. Rev. ed. 469p Van Nostrand '23
Manufacture of nitric acid and nitrates. P. Parrish. Chem Age (Lond) 9:510-11 N 10 '23
Pauling patent for concentrating nitric acid invalid. Chem & Met Eng 32:816 O '25
Some economic aspects of ammonia oxidation. G. B. Taylor. Am Inst Chem Eng Trans v 14:59-65; Discussion. 65-6 '21-'22

NITRIC oxide. See Nitrogen oxides

NITRIFYING bacteria. See Bacteria, Nitrifying

NITRILES
Catalytic hydrogenation under pressure in the presence of nickel salts; nitriles. J. von Braun, G. Blessing and F. Zobel. Chem Soc J 124 pt 1:1087-9 N '23
Chemistry of the three-carbon system, tautomeric nitriles and cyano-esters. S. F. Birch and G: A. R. Kon. Chem Soc J 123:2440-8 O '23
Condensation of β-chloro- and β-ethylcarbonato-propionitriles with resorcinol. E. Chapman and H: Stephen. Chem Soc J 127: 885-92 Ap '25
Delta ketonic nitriles and their relation to cyclic compounds. E. P. Kohler and C: F. H. Allen. Am Chem Soc J 46:1522-34 Je '24
Modification of the Sandmeyer synthesis of nitriles. H. T. Clarke and R. R. Read. Am Chem Soc J 46:1001-3 Ap '24
Preparation and stability of cuprous nitrate and other cuprous salts in presence of nitriles. H. H. Morgan. Chem Soc J 123:2901-7 N '23
Some reactions of delta ketonic nitriles. C: F. H. Allen. Am Chem Soc J 47:1733-41 Je '25

NITRO compounds
Ionisation of aromatic nitro-compounds in liquid ammonia. M. J. Field, W: E: Garner and C. C. Smith. Chem Soc J 127:1227-27 Je '25
Labile nature of the halogen atom in organic compounds; the action of hydrazine hydrate on the halogen derivatives of α-nitrofatty acids. A. K. Macbeth and D. Traill. Chem Soc J 127:892-8 Ap '25
Reduction of aromatic nitro-compounds. R. W. West. Chem Soc J 127:494-5 F '25
Some notes on nitro compounds with special reference to the nitration of meta-chloronitro-benzene and para-chloro-toluene. H. H. Hodgson. Soc Dyers & Col J 41:327-9 O '25

NITROACETANILIDES
Nitrogen chlorides derived from nitro-substituted acetanilides. F: D. Chattaway and H: J. Dowden. Chem Soc J 125:1195-7 My '24

NITROANILINES
Solubility relations of isomeric organic compounds; the mutual solubility of *O, M, P* nitroanilines and of *O, M, P* nitro-chlorobenzenes. G. T. Kohman. J Phys Chem 29: 1048-56 S '25
Studies in vapor pressure; the nitro-anilines. J. F. T. Berliner and O. E. May. Am Chem Soc J 47:2350-6 S '25
See also Paranitraniline red

NITROBENZALDEHYDE
Derivatives of para-nitrobenzaldehyde. C: G. King and A. Lowy. Am Chem Soc J 46:757-62 Mr '24

NITROBENZALDEHYDE hydrazones
Polymorphic nitrobenzaldehydehydrazones. F: D: Chattaway and A. J: Walker. diags Chem Soc J 125:1207-15 Je '24
Relationship between colour and constitution in the nitrobenzaldehydehydrazones. F: D. Chattaway and G: R. Clemo. Chem Soc J 123:3041-62 D '23

NITROBENZALDEHYDE phenylhydrazones
Action of halogens upon *m*- and *p*-nitrobenzaldehydephenylhydrazones. F: D. Chattaway and A. J: Walker. Chem Soc J 127: 1687-98 Jl '25

NITROBENZENE
Colloid systems in nitrobenzene. F: S. Brown and C: R. Bury. J Phys Chem 29:1312-16 O '25
Cryoscopic measurements with nitrobenzene; equilibrium in nitrobenzene solution. F: S. Brown. Chem Soc J 127:345-8 F '25
Cryoscopic measurements with nitrobenzene; the variation of the molecular depression with water content. F: S. Brown and C: R. Bury. Chem Soc J 125:2219-26 N '24
Dielectric losses at radio frequencies in liquid dielectrics. A. B. Bryan. diags Phys R 22:399-404 O '23
Measurement of the vapour pressures of aqueous salt solutions by the depression of the freezing point of nitrobenzene. N. V. Sidgwick and E. K. Ewbank. Chem Soc J 125:2268-73 N '24
Quantitative measurements of the reactivity of the halogens in aromatic compounds. A. H: Rheinlander. Chem Soc J 123:3099-3110 D '23

NITROBENZENE-sulfonamides
Identification of amines; meta-nitrobenzenesulfonamides. C. S. Marvel, F. L. Kingsbury and F. E. Smith. Am Chem Soc J 47: 166-7 Ja '25

NITROBENZOPHENONEOXIMES
Isomerism of the oximes; the isomeric *p*-nitrobenzophenoneoximes and their four methyl ethers. O. L. Brady and R. P. Mehta. Chem Soc J 125:2297-2304 N '24

NITROCARBAZOLES
Some reduction products of 1-nitro- and 3-nitrocarbazole. T. C. Whitner, jr. Am Chem Soc J 46:2326-9 O '24

NITROCELLULOSE
An empty tank explodes. G: R. Ensminger. il diags plan Chem & Met Eng 30:546-8 Ap 7 '24
Artificial leather; with special reference to its manufacture from nitrocellulose. W. J. Jenkins. Chem Age (Lond) 12:628-9 Je 27 '25
New stability test for nitrocellulose. J: B. Taylor. diag Ind & Eng Chem 16:1185-6 N '24
Nitrocellulose and camphor. J. B. Nichols. J Phys Chem 28:769-71 Jl '24
Nitrocellulose and pyroxylin lacquers. J. B. Wiesel. Chem Age 32:439-42 N '24
Nitrocellulose and the lacquer industry. R. A. Coolahan. Chem Rec Age 23:7-8 Mr 23 '25
Plasticity in relation to cellulose and cellulose derivatives. S. E. Sheppard and E. K. Carver. il diag J Phys Chem 29:1244-63 O '25
Preparation of surfaces for nitrocellulose finish. J: McGeorge. Soc Auto Eng J 17:212 Ag '25
Qualities and durability of nitro-cellulose finishes for automobiles. H. C. Mougey and L. V. Pulsifer. diag Soc Auto Eng J 16:277-8 Mr '25
Recent developments in the manufacture and application of nitrocellulose lacquers and enamels. G. E. Condé. Can Chem & Met 8: 219-21 S '24
Refinishing with nitro-cellulose materials. Bus Transportation 4:340-1 Jl '25
La stabilisation des nitrocelluloses par lavage à l'eau calcaire. A. Bréguet and A. Caille. Chimie & Ind 13:901-5 Je '25
Tentative regulations for the storage and handling of photographic and X-ray nitrocellulose films. Safety Eng 48:38-40 Jl '24
See also Celluloid; Cellulose; Collodion; Pyroxylin

NITROCHLOROBENZENE. See Chloronitrobenzene

NITROCRESOLS
Nitro-derivatives of o-cresol. G: P. Gibson. Chem Soc J 127:42-8 Ja '25

NITRODIBENZANTHRONE
Black vat dyestuff; treating nitrated dibenzanthrone with sulfur. P. Nawiasky and E. Krauch. Chemicals (Dyestuffs sec) 17:117-18 N 9 '25

NITRODIMETHYLANILINE
Amine oxides derived from 4-bromodimethylaniline and from 3- or 4-nitrodimethylaniline. L. W. Jones and E. B. Hartshorn. Am Chem Soc J 46:1840-55 Ag '24

NITRODIMETHYLGLYOXALINES
4- and 5 -nitro-1:2-dimethylglyoxalines. V. K. Bhagwat and F. L. Pyman. Chem Soc J 127:1832-6 Ag '25

NITROGEN
Active modification of nitrogen. M. N. Saha and N. K. Sur. Philos Mag 6th ser 48:421-8 S '24
Case-hardening of steel by boron and nitrogen. T. P. Campbell and H: Fay. il diags Ind & Eng Chem 16:719-23 Jl '24
Determination of the dielectric constants of five gases by a high frequency method. E. C. Fritts. il diags Phys R 23:345-56 Mr '24
Diffusion of mercury and of iodine vapours through nitrogen. J. M. Mullaly and H. Jacques. diag Philos Mag 6th ser 48:1105-22 D '24
Dissociation of hydrogen and nitrogen by excited mercury atoms. O. S. Duffendack and K. T. Compton. Phys R 23:583-92 My '24
Effect of argon on the first positive band spectrum of nitrogen. R. C. Johnson. Philos Mag 6th ser 48:1069-74, pl 26 D '24
Effect of nitrogen and carbon dioxide dilutions on explosion limits of acetone and methanol and their mixtures. H. Crouch and E. K. Carver. diag Ind & Eng Chem 17:641-2 Je '25
Electrical properties of neon, hydrogen, and nitrogen. S. P. McCallum and C. M. Focken. Philos Mag 6th ser 49:1309-20 Je '25
Explosion of acetylene and nitrogen; spectra of explosions of gases containing hydrogen, carbon, nitrogen, and oxygen. W: E: Garner and S. W. Saunders. Chem Soc J 127:77-82 Ja '25
Explosion of acetylene and nitrogen; the effect of the addition of oxygen on the production of hydrocyanic acid. W: E: Garner and S. W. Saunders. Chem Soc J 125:1634-41 Ag '24
Extension of the negative band spectrum of nitrogen. T. R. Merton. Philos Mag 6th ser 50:195-9 Jl '25
Fine structure of the nitrogen, oxygen, and fluorine lines in the extreme ultra-violet. I. S. Bowen and R. A. Millikan. Philos Mag 6th ser 48:259-64, pl 9 Ag '24
Gaseous combustion at high pressures. W. A. Bone, D. M. Newitt and D. T. A. Townend. Gas J (Lond) 166:600-3, 747-50, 848-50 My 28, Je 11-18 '24
Impact effects in nitrogen and nitric oxide. C. B. Bazzoni and A. T. Waldie. bibliog J Fr Inst 197:57-72 Ja '24
Influence of nitrogen dilution on the speed of flame. C. Campbell, O. C. de C. Ellis and S. R. Stubbs. Chem Soc J 125:1957-63 S '24
Isotope effect in band spectra; the spectrum of copper iodide as excited by active nitrogen. R. S. Mulliken. il diags Phys R 26:1-32 Jl '25
Liberation of carbon dioxide, ammonia and amino nitrogen from casein by acid hydrolysis. M. S. Dunn. Am Chem Soc J 47:2564-8 O '25

NITROGEN—*Continued*

Luminescence of nitrogen, argon and other condensed gases at very low temperatures. J. C. McLennan and G. M. Shrum. J Fr Inst 198:434-6 S '24

Magnetic susceptibility of helium, neon, argon, and nitrogen. L. G. Hector. diag Phys R 24: 418-25 O '24

Mechanism and thermochemistry of the reaction between calcium carbide and nitrogen. H. J. Krase and J. Y. Yee. Am Chem Soc J 46:1358-66 Je '24

Mode of retention of nitrogen in electric arc weld metal. E. J. B. Willey. diag Soc Chem Ind J 43:263-6, 267-70 Ag 1-8 '24

Motion of electrons in nitrogen. H. B. Wahlin. diag Phys R 23:169-77 F '24

Nitrogen in steel—prevention or cure? J. K. Smith. Iron Age 114:1209-10 N 6 '24

Nitrogen of coal and ammonia recovery; abstract. W. A. Calder. Chem Age (Lond) 10: 217 Mr 1 '24

Nitrogen problem. C: O. Brown. Am Electrochem Soc Trans v 48 (preprint 19):175-82 S '25; Same. Chemicals 24:13-14 O 26 '25

Nitrogen survey. H. A. Curtis. U S Bur For & Dom Com Trade Information Bul 226:1-63 '24; Same cond. Chem & Met Eng 30:667-70, 703-6, 749-52, 788-90 Ap 28-My 19 '24; Excerpts. Chem Age 32:225-9 My '24; Oil Paint & Drug Rep 105:19+ My 12 '24; Gas Age 54:147-50 Ag 2 '24

Nitrogen survey; the air-nitrogen processes. J. M. Braham. diag U S Bur For & Dom Com Trade Information Bul 240:1-41 '24

Photochemical studies; the reaction between nitrogen and hydrogen in the presence of mercury vapor, and the resonance radiation of mercury. W. A. Noyes, jr. Am Chem Soc J 47:1003-9 Ap '25

Position of the nitrogen industry in France. M. Deschiens. Soc Chem Ind J (Chem & Ind) 43:507-8 My 16 '24

Production of atomic nitrogen and its arc spectrum. K. T. Compton. Philos Mag 6th ser 50:512-16 S '25

Production of nitrogen and hydrogen for synthetic ammonia manufacture. H. S. Taylor. flow sheet diags Am Inst Chem Eng Trans v 14:45-56; Discussion. 56-7 '21-'22

Quality of organic nitrogen in fertilizers. F. E. Bear. Ind & Eng Chem 17:93 Ja '25

Schwefel- und stickstoffstudien. F. Raschig. 310p Verlag Chemie, Leipzig and Berlin '24

Solubility of a mixture of hydrogen and nitrogen in liquid ammonia. A. T. Larson and C: A. Black. diags Ind & Eng Chem 17: 715-16 Jl '25

Synthetic nitrogen products. Engineering 118: 263-4 Ag 22 '24

Temperature-entropy diagrams for nitrogen and oxygen. W. H. Rodebush, J: W. Andrews and J: B. Taylor. diag Am Chem Soc J 47:313-19 F '25

Utilization of nitrogen in soils and fertilizers as affected by lime. J. G. Lipman and A. W. Blair. Ind & Eng Chem 16:373-5 Ap '24

See also Fixed nitrogen research laboratory; Gas manufacture—By-products; Nitrates; Nitric acid; Nitrogen fixation; Steel—Nitrogen content

Analysis

Available nitrogen in fertilizers; need of a new method for its determination. J. W. Kellogg. Ind & Eng Chem 16:371-2 Ap '24

Chemical analysis of cotton; the determination of nitrogen in cotton. B. P. Ridge. bibliog diags Textile Inst J 15:T94-103 Mr '24; Excerpts. Soc Dyers & Col J 40:197-200 Je '24

Determination of mineral nitrogen in fertilizers. J. E. Breckenridge. Ind & Eng Chem 17:95 Ja '25

New direct nesslerization micro-Kjeldahl method and a modification of the Nessler-Folin reagent for ammonia. F. C. Koch and T. L. McMeekin. Am Chem Soc J 46:2066-9 S '24

Proline and tryptophan as factors influencing the accuracy of Van Slyke's method for the determination of nitrogen distribution in proteins. R. A. Gortner and W. M. Sandstrom. Am Chem Soc J 47:1663-71 Je '25

NITROGEN chlorides

Nitrogen chlorides derived from nitro-substituted acetanilides. F: D. Chattaway and H: J. Dowden. Chem Soc J 125:1195-7 My '24

See also Nitrogen trichloride

NITROGEN compounds

Fixed nitrogen a national economic problem. H. A. Curtis. Chem & Met Eng 30:667-70 Ap 28 '24

Investigations on fish meals; the nature of the water-soluble nitrogen compounds. W. L. Davis. Soc Chem Ind J 44:487-91 O 16 '25

Nitrogen production increased in 1923. Oil Paint & Drug Rep 106:67 D 29 '24

Relative effects of some nitrogen compounds upon detonation in engines. T. A. Boyd. Ind & Eng Chem 16:893-5 S '24

Synthesis of nitrogen ring compounds containing a single hetero-atom [nitrogen]. C. Hollins. 423p Van Nostrand '24

See also Ammonia; Ammonium compounds; Nitrates; Nitric acid; Nitriles; Nitrobenzene and other headings beginning Nitro

NITROGEN fixation

American process for nitrogen fixation. diags Chem & Met Eng 30:948 Je 16 '24; Same. Chem Age (Lond) 11:7 Jl 5 '24

Ammonia from the air. J. W. McBain. Sci Am 130:326 My '24

Cyanides and chemical engineering. H. G. Chickering. flow sheet diags Chem & Met Eng 31:967-70 D 22 '24

Do green plants have the power of fixing elementary nitrogen from the atmosphere? C. B. Lipman and J. K. Taylor. bibliog J Fr Inst 198:475-506 O '24

Establishment of commercial nitrogen fixation. C. F. Graff. il Chem Age 32:73-4 F '24

La fabrication de l'ammoniaque synthétique par le procédé Haber-Bosch. J. Carlioz. Chimie & Ind 11:170-5 Ja '24

Finance and science in international cooperation; an encomium of Prof. Fritz Haber. R. H. McCready. Chem Age 32:399-400 O '24

Fixation of atmospheric nitrogen. J. M. Braham. Am Electrochem Soc Trans v 48 (preprint 4):33-47 S '25

Fixation of atmospheric nitrogen by yeast as a function of the hydrogen ion concentration. E. I. Fulmer and L. M. Christensen. J Phys Chem 29:1415-18 N '25

Fixation of nitrogen as cyanide. R: Franchot. bibliog Ind & Eng Chem 16:235-8 Mr '24

Fixation of nitrogen by yeast. Sci Am 131: 372 N '24

Fixation of nitrogen in France. J Fr Inst 200: 247-8 Ag '25

Fixation of nitrogen; the Casale process. J. F. Crowley. Elec R (Lond) 96:758 My 8 '25

Fixed nitrogen processes and data are surveyed in Commerce report no. 3. Oil Paint & Drug Rep 105:19+ Je 23 '24

Haber process of ammonia synthesis. Sci Am 130:40 Ja '24

Hydrogen and by-product oxygen in relation to nitrogen fixation and fertilizers. W: G. Allan. il Am Electrochem Soc Trans v 48 (preprint 20):183-207 S '25

Improved catalyst for nitrogen fixation. Chem Age 32:206 Ap '24

L'industrie de l'azote; sa situation actuelle en France. J. H. Lucas. Chimie & Ind 14: 315-18 Ag '25; Abstract. Génie Civil 87:469 N 28 '25

Manufacture of sodium nitrite by the arc process. H. K. Benson. Am Electrochem Soc Trans v 48 (preprint 9):93-7 S '25

Mechanism of the fixation of nitrogen as sodium cyanide. E. W. Guernsey and M. S. Sherman. Am Chem Soc J 47:1932-40 Jl '25

Nitrates from the air. J. M. Braham. il Chem & Met Eng 32:320-2 F 23 '25

NITROGEN fixation—*Continued*

Nitrogen fixation. C. J. Goodwin. Soc Chem Ind J (Chem & Ind) 44:607 Je 12 '25

Nitrogen fixation. 28p Honorary advisory council for sci. and ind. research, Ottawa, Canada '24

Nitrogen fixation and allied industries in Germany. Chem & Met Eng 32:566-7 Je '25

Nitrogen fixation at Billingham; a sketch of the Brunner-Mond achievement. Chem Age (Lond) 10:619-20 Je 14 '24

Nitrogen fixation in Italy. Chem Age (Lond) 11:663-4 D 27 '24

Nitrogen fixation processes. L. F. Goodwin. Can Chem & Met 8:158-61 Jl '24

Nitrogen from the air; Lazote, inc. F. A. Wardenburg. Chemicals 24:43-4 N 9 '25

Nitrogen industry in 1923. E. B. Maxted. Chem Age (Lond) 9:708-10 D 29 '23

Nitrogen industry in 1924. E. B. Maxted. Chem Age (Lond) 11:647-9 D 27 '24

Nitrogen survey; the air-nitrogen processes. J. M. Braham. diag U S Bur For & Dom Com Trade Information Bul 240:1-41 '24

Nitrogen survey; the nitrogen situation in European countries. H. A. Curtis and F. A. Ernst. U S Bur For & Dom Com Trade Information Bul 270:1-49 '24; Abstract. Oil Paint & Drug Rep 106:20 S 29 '24

Present status of nitrogen fixation in America. Chem Age 31:539-42 D '23

Problem of nitrogen fixation. F: G. Cottrell. il Chem Age (Lond) 11:282-4, 310-12, 342-3 S 20-O 4 '24

Report of fixed nitrogen research laboratory. F: G. Cottrell. Chem Age 32:485-7 D '24

Research on nitrogen fixation. Chem & Met Eng 29:1047-50 D 10 '23

Situation actuelle de l'industrie des produits azotés synthétiques aux États-Unis. C. Matignon. il Chimie & Ind 13:845-61 My '25

Some phenomena in the electric arc process of nitrogen fixation. S. Karrer. Am Electrochem Soc Trans v 48 (preprint 3):25-32 S '25

Die synthese des ammoniaks nach Claude. H. Salmang. diags Zeit Ver Deutsch Ing 69: 753-5 My 30 '25

Synthetic versus by-product ammonia in Europe. C. H. S. Tupholme. Can Chem & Met 9:131-3 Je '25

Trend of developments in the nitrogen problem. J. M. Braham. Ind & Eng Chem 16: 1277-80 D '24

World's nitrogen industry. Economist 100:sup 35 My 23 '25

NITROGEN oxides

Absorption of nitrogen oxides in the chamber acid process. G: E. Beavers. il Chem & Met Eng 32:280-2 F 16 '25

Action of nitrogen dioxide on anthracene derivatives. E: De B. Barnett. Chem Soc J 127:2040-4 S '25

Comparison between the homogeneous thermal decomposition of nitrous oxide and its heterogeneous catalytic decomposition on the surface of platinum. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 127:327-36 F '25

Impact effects in nitrogen and nitric oxide. C. B. Bazzoni and A. T. Waldie. bibliog J Fr Inst 197:57-72 Ja '24

New oxide of nitrogen, nitroso-nitrogen trioxide, and its bearing on the oxidation of nitric oxide. R. L. Hasche. diag Am Chem Soc J 47:2143-8 Ag '25

Nitrogen oxides in sulfuric acid. E. M. Jones. Ind & Eng Chem 17:144 F '25

Nitrous oxide manufacture; patent. diag Chem & Met Eng 31:236 Ag 11 '24

Quantitative determination of reduction products of free nitric acid solutions; namely —nitrogen peroxide, nitric oxide, nitrous oxide, nitrogen, nitrous acid and salts of hydroxylamine, hydrazine and ammonia. L. H. Milligan. diags J Phys Chem 28:544-78 Je '24

Rate of oxidation of nitric oxide. W. A. Patrick and M. Latshaw. Am Inst Chem Eng Trans v 15 pt 2:221-6; Discussion. 226-7 '23

Recovery of nitrogen oxides from gas mixtures by adsorption on silica gel. J. A. Almquist, V. L. Gaddy and J. M. Braham. diags Ind & Eng Chem 17:599-603 Je '25

Sorption of nitrous oxide and sulphur dioxide by glass. D. H. Bangham and F. P. Burt. J Phys Chem 29:540-50 My '25

Studies on the rate of oxidation of nitric oxide; a new method of measuring the velocity of a rapid gaseous reaction. M. Latshaw and W. A. Patrick. diags Am Chem Soc J 47:1201-7 My '25

Studies on the rate of oxidation of nitric oxide; the velocity of the reaction between nitric oxide and oxygen at 0° and 30°. R. L. Hasche and W. A. Patrick. il Am Chem Soc J 47:1207-15 My '25

Study of adsorption phenomena in the vicinity of the critical temperature. W. A. Patrick, W. C. Preston and A. E. Owens. J Phys Chem 29:421-34 Ap '25

NITROGEN pentoxide

Initial rate of decomposition of nitrogen pentoxide. E. C. White and R: C. Tolman. diags plan Am Chem Soc J 47:1240-55 My '25

Rate of decomposition of nitrogen pentoxide at low concentrations. J. K. Hunt and F. Daniels. diag Am Chem Soc J 47:1602-9 Je '25

Reaction of certain organic compounds with nitrogen pentoxide. L: B. Haines and H. Adkins. Am Chem Soc J 47:1419-26 My '25

Thermal decomposition of nitrogen pentoxide. H. S. Hirst. diag Chem Soc J 127:657-71 Mr '25

NITROGEN peroxide

Action of nitrogen peroxide on cuprous oxide. J. R. Partington. Chem Soc J 125:663-5 Mr '24

Adsorption of nitrogen peroxide by silica gel. R. C. Ray. diags J Phys Chem 29:74-86 Ja '25

Interaction of some aromatic hydrocarbons, alcohols, and aldehydes with nitrogen peroxide. L. W. Bass and T. B. Johnson. Am Chem Soc J 46:456-61 F '24

Reaction between copper and nitrogen peroxide. J. R. Park and J. R. Partington. diag Chem Soc J 125:72-82 Ja '24

Reaction between lime and nitrogen peroxide. J. R. Partington and F. A. Williams. diag Chem Soc J 125:947-58 Ap '24

NITROGEN persulfide

Interaction of nitrogen sulphide and sulphur: nitrogen persulphide. F. L. Usher. Chem Soc J 127:730-5 Mr '25

NITROGEN sulfides

Interaction of nitrogen sulphide and sulphur: nitrogen persulphide. F. L. Usher. Chem Soc J 127:730-5 Mr '25

Nitrogen tetrasulfide and nitrogen tetraselenide. H. B. Van Valkenburgh and J: C. Bailar, jr. Am Chem Soc J 47:2134-7 Ag '25

NITROGEN trichloride

Addition of nitrogen trichloride to unsaturated hydrocarbons. G. H. Coleman and H. P. Howells. Am Chem Soc J 45:3084-9 D '23

Attempt to prepare nitro-nitrogen trichloride; failure to obtain a compound containing only nitrogen and chlorine from oxides of nitrogen. W. A. Noyes. diag Am Chem Soc J 47:2159-64 Ag '25

Heat of formation of nitrogen trichloride. W: A. Noyes and W: F. Tuley. Am Chem Soc J 47:1336-41 My '25

NITROGLYCERIN

Nitroglycerin und nitroglycerinsprenstoffe (dynamite). P. P. Naoum. 416p J. Springer, Berlin '24

Pleasant days' work for those who like to play with nitro; extinguishing a gas well fire. A. F. Hinton. diag Nat Pet N 17:39-40 N 4 '25

Substitutes for nitroglycerine in explosives manufacture. C: L. Reese. Chem Age 32: 481-3 D '24

NITROGUANIDINE
Two forms of nitroguanidine. T. L. Davis, A. A. Ashdown and H: R. Couch. Am Chem Soc J 47:1063-6 Ap '25

NITROHYDROXYBENZALDEHYDES
Mercuration of nitrohydroxybenzaldehydes. T: A. Henry and T: M. Sharp. Chem Soc J 125:1049-60 My '24

NITROHYDROXYDIPHENYL
3-nitro-4-hydroxydiphenyl and some of its derivatives. L. C: Raiford and J. C. Colbert. Am Chem Soc J 47:1454-8 My '25

NITROMETHANE
Reaction of bromonitromethane with aromatic compounds in the presence of aluminum chloride. M. L. Sherrill. Am Chem Soc J 46: 2753-8 D '24
Study of the physical properties of nitromethane. J: W. Williams. Am Chem Soc J 47:2644-52 N '25

NITRONAPHTHALENES
Reduction of nitronaphthalenes; reduction of α-nitronaphthalene. W: M. Cumming and J. K. Steel. Chem Soc J 123:2464-70 O '23
Reduction of nitronaphthalenes; reduction of β-nitronaphthalene. W: M. Cumming and G: S. Ferrier. Chem Soc J 125:1108-11 My '24

NITRONAPHTHOLS
Preparation of 2- and 4-nitro-1-naphthols. H. H: Hodgson and E. Kilner. Chem Soc J 125:807-11 Ap '24

NITRONAPHTHYLAMINES
Interaction of formaldehyde and the nitronaphthylamines. G. T. Morgan and F. R. Jones. Soc Chem Ind J 42:92-7 Mr 16 '24

NITROPHENOLS
Behaviour of nitrophenols with *p*-toluenesulphonyl chloride. S. M. Sané and S. S. Joshi. Chem Soc J 125:2481-4 D '24
Studies in nitration: mononitration of phenol. F. Arnall. Chem Soc J 125:811-16 Ap '24

NITROPHENYLSEMICARBAZIDE
4-meta-nitrophenylsemicarbazide and certain derivatives. A. S. Wheeler and T. T. Walker. Am Chem Soc J 47:2792-6 N '25

NITROPHTHALIC acid
Preparation of 3-nitrophthalic acid. E. R. Littmann. Am Chem Soc J 47:1980-1 Jl '25

NITROPHTHALIC anhydride
3-nitrophthalic anhydride as a reagent for alcohols. B. H. Nicolet and J. Sacks. Am Chem Soc J 47:2348-50 S '25

NITROPYRUVIC ureide
Researches on hydantoins; nitropyruvic ureide. D: Davidson. Am Chem Soc J 47: 1722-6 Je '25

NITROQUINOLS
Colorimetric dissociation constants of the mono- and di-nitroquinols. E. B. R. Prideaux and G. R. Nunn. Chem Soc J 125: 2110-16 O '24

NITROSATION
Nitrosation of phenols; 3-chloro-4-nitrosophenol and its conversion into two isomeric chloroquinonemonoximes. H. H: Hodgson and F. H. Moore. Chem Soc J 123:2499-2507 O '23

NITROSO blue
Dyeing and printing nitroso blue; abstract. M. Richard. Soc Dyers & Col J 41:341 O '25

NITROSO compounds
Additive formation of four-membered rings; the influence of temperature on the tendency towards self-addition of the nitroso-group. C. K. Ingold and H: A. Piggott. Chem Soc J 125:168-76 Ja '24
Analysis of organic rubber vulcanising accelerators. T. Callan and N. Strafford. Soc Chem Ind J 43:2-3 Ja 4 '24
Conditions affecting bactericidal power. E. A. Cooper, D. L. Woodhouse and G. E. Forstner. Soc Chem Ind J 44:134-8 Mr 27 '25
Influence of nitric acid on the stability of diazonium and nitroso compounds. E. Knecht and J. H. Platt. Soc Dyers & Col J 41:275-8 Ag '25
Nature of the alternating effect in carbon chains; the directive influence of the nitroso-group in aromatic substitution. C. K. Ingold. Chem Soc J 127:513-18 Mr '25

NITROSO hydrindones
Action of phosphorus pentachloride on 2-isonitroso-1-hydrindones. R. D. Haworth and H. S. Pink. Chem Soc J 127:1368-71 Je '25

NITROSOBENZENE
Polarisation of nitrosobenzene. R. Robinson. Soc Chem Ind J (Chem & Ind) 44:456-8 My 1 '25

NITROSO-PHENOLS
Tautomerism with respect to nitroso-phenols. H. H. Hodgson. Soc Dyers & Col J 40:167-74 Je '24

NITROSOTRIACETONAMINE
Influence of colloids on the rate of reactions involving gases; decomposition of hydrogen peroxide and of nitrosotriacetonamine. A. Findlay and W: Thomas. Chem Soc J 125: 1244-52 Je '24

NITROSULFONIC acid
Nitration by means of a mixture of nitrosulfonic and fuming nitric acids. P. S. Varma and D. A. Kulkarni. Am Chem Soc J 47: 143-7 Ja '25

NITROSYL chloride
Photochemical decomposition of nitrosyl chloride. E. J: Bowen and J: F: Sharp. Chem Soc J 127:1026-8 My '25

NITROTOLUENE
Electrolytic oxidation of para-nitrotoluene and para-chlorotoluene to their respective acids. R. F. Dunbrook and A. Lowy. diag Am Electrochem Soc Trans v 45 (preprint 7): 97-117 Ap '24
Influence of pressure on the freezing point of *p*-nitrotoluene, *m*-dinitrobenzene and guaiacol. N. A. Pushin. diag Chem Soc J 125: 2628-30 D '24

See also Dinitrotoluene; Trinitrotoluene

NITROURACIL
Studies on catalysis; the behavior of the amino group when cytosine and nitro-uracil are reduced in the presence of colloidal platinum. E. R. Brown and T. B. Johnson. Am Chem Soc J 46:702-8 Mr '24

NITROUREA
Electrolytic preparation of semicarbazine sulfate. L: J. Bircher and others. Am Chem Soc J 47:391-4 F '25

NITROUS acid
Catalytic action of nitrous acid. W. D. Bancroft. J Phys Chem 28:973-83 S '24

NOBEL industries, limited
General meeting, 5th, London, Sept. 19. Economist 99:462-4 S 20 '24
General meeting, 6th, London. Economist 101: 466-8 S 19 '25
Picture of an industrial giant. il Chem & Met Eng 31:155 Jl 28 '24

NOISE
Combustion noise of domestic oil burners. A. Ruttiman. Heat & Ven 22:85 O '25
Effect of noises on the hearing of workmen. Monthly Labor R 20:1133-5 My '25
Fragen der schalltechnik. H. Reiher. Zeit Ver Deutsch Ing 69:475-6 Ap 11 '25
Noise in London cars photographed by audiometer. il Elec Ry J 63:506 Mr 29 '24
Noise of operation from tramcars. Elec Ry J 64:452-3 S 20 '24
Noiseless room that speeds production. H. E. Weese. System 46:654-5 N '24
Noisy timing gears; causes and remedies. C. M. Aldrich. il diags Mach 31:116-21 O '24
Reducing excess noise in the foundry. T. C. Roantree. il Foundry 52:408-9 My 15 '24
Reducing noise in car operation. H. S. Williams. Elec Ry J 65:765-6 My 16 '25
Reducing noise in train operation; extended series of tests of the London underground system. Elec Ry J 63:135-8 Ja 26 '24
Reduction of noise in electric railway cars. H. S. Williams. Elec Ry J 66:443 S 19 '25

NOISE—*Continued*
Technische verfahren zur prüfung von geräuschen. K. Lubowsky. diags Zeit Ver Deutsch Ing 69:100-2 Ja 24 '25
Ventilation and noise control of sub-station machinery. F. T. Hague. diags Elec J 21:107-11 Mr '24
Vibration and noise; their isolation as affecting the erection of machinery. R. B. Grey. il diag Electrician 92:354-5 Mr 21 '24
When does noise become a legal nuisance? L. Childs. Factory 32:39+ Ja '24
See also Automobiles—Noise

NOKOL. See American nokol company, Chicago

NOMOGRAPHY
Analyzing concentrates graphically; how to construct and use nomographic charts. H. Rose. charts Eng & Min J 120:565-8 O 10 '25
Die anwendung nomographischer methoden beim entwurf elektrischer bahnen. von Stritzl. Elektrotech Zeit 46:109-13 Ja 22 '25
Charts for determination of inductance and wave-length. L. F. Southwick. Radio N 6: 1430-1+ F '25
Deck camber, sheer and bevel nomogram. E. V. Telfer. diag Marine Eng 29:362-3 Je '24
Design of diagrams for engineering formulas and the theory of nomography. L. I. Hewes and H. L. Seward. 111p McGraw-Hill '23
Determination of the reactive kv-a. and the capacity necessary to improve power-factor. J. Hak. Gen Elec R 28:798-9 N '25
Determining chlorine dosage graphically. W. M. Olson. Eng N 93:801 N 13 '24
Fluchtlinientafel für die erwärmungsfunktion. Schwerdt. Elektrotech Zeit 45:1435-6 D 25 '24
Graphic solution for wood-pole strength. E. Brokemyr. Elec W 82:955-7 N 10 '23
How to make and use nomograms. R. O. Kapp. Elec R (Lond) 97:570-2, 604-6 O 9-16 '25
Neuere anwendungen der nomographie. D. Wehage. Elektrotech Zeit 45:1342-6 D 4 '24
Nomogram for mean effective pressure. L. M. Porter. diag Power 61:652-3 Ap 28 '25
Nomogram for solution of vertical curves. M. P. Smith. chart Eng N 94:989 Je 11 '25
Nomographic solutions for engineering formulae. H. B. Muckleston. diag Can Eng 47: 329-33 S 16 '24
Normung der statorspulen eines wechselstrommotors in nomographischer behandlung. A. V. Hellborn. diags Elektrotech Zeit 46:1031-3 Jl 9 '25
Steel weight nomogram. E. V. Telfer. Marine Eng 29:720-3 D '24
Transmission-line tower design chart. H. L. Sharp. Elec W 85:204-5 Ja 24 '25
Über die mathematischen grundlagen der nomographie. L. Bieberbach. diags Zeit Ver Deutsch Ing 68:495-8 My 17 '24
Über perspektive methoden der nomographie. F. Strecker. Elektrotech Zeit 45:271-3 Mr 27 '24
See also Charts (calculating)

Bibliography
Die nomographie in der ETZ bis 1924. H. Schenkel. Elektrotech Zeit 46:1080-1 Jl 16 '25

NONANOL
Investigations on the dependence of the rotatory power on chemical constitution; the normal aliphatic ethers of d-γ- nonanol. J. Kenyon and T. W. Barnes. Chem Soc J 125: 1395-1400 Je '24

NON-conductors. See Insulation (electric)

NON-MAGNETIC ship. See Carnegie (yacht)

NON-partisan league. See National non-partisan league

NOODLES
Analysis
Estimation of lipoid phosphorus in cereal products. O. S. Rask and I: K. Phelps. Ind & Eng Chem 17:189-90 F '25
Extraction and estimation of lipoids in cereal products. O. S. Rask and I: K. Phelps. Ind & Eng Chem 17:187-9 F '25

NORDBERG, Bruno V., 1857-1924
Sketch. por Mech Eng 46:934 D '24; Power 60: 786 N 11 '24; Power Pl Eng 28:1174 N 15 '24

NORDYKE and Marmon company
Organizing a business to give advertising a chance. D. M. Hubbard. Ptr Ink 132:3-4+ S 24 '25

NORFOLK, Virginia
Norfolk setting an example for the South. T: H. Gilliam, jr. Manuf Rec 88:75-6 Ag 13 '25
Railways' part in the development of Hampton Roads. C: S. Churchill. il map Am Soc C E Pro 49:2006-20 D '23
Reclaiming tidal flats for residential property. Eng N 95:11 Jl 2 '25
See also Motor bus lines—Norfolk, Virginia

Rapid transit
$8,100,000 value fixed at Norfolk. Elec Ry J 62:952 D 1 '23

NORFOLK and Western railway
Annual report, 28th, for 1923. Comm & Fin Chr 118:1405-9 Mr 22 '24; Same cond. Ry Age 76:814-18 Mr 22 '24
Annual report, 29th, for the year ending Dec. 31, 1924. Comm & Fin Chr 120:1761-6 Ap 4 '25
Double tracks for the N. & W. Big Sandy line. G: E. Boyd. il maps Ry R 77:273-6 Ag 22 '25
Hearing on lease of Virginian by Norfolk & Western. Ry Age 76:699-700 O 17 '25
Interesting facts developed at N. & W.-Virginian merger hearing. Ry R 77:649-52 O 24 '25
Norfolk & Western double tracks its Big Sandy line. il diag map plan Ry Age 79:263-7 Ag 8 '25
Norfolk & Western holds efficiency meeting. Ry Age 76:1505-6 Je 14 '24
Norfolk & Western improves property; capital expenditures in 1924 total $33,000,000. map Ry Age 78:887-9, 910-14 Ap 4 '25
Norfolk & Western lease under discussion. map Ry Age 76:835-6 Mr 29 '24
Norfolk and Western proposes to lease Virginian. Ry Age 78:1045 Ap 25 '25
Results of electrification on Norfolk & Western Ry. S. Hayes. Eng & Contr (Ry) 61: 123 Ja 16 '24

NORFOLK Southern railroad
Annual report, 15th, for year ended Dec. 31, 1924. Comm & Fin Chr 120:2393-4 My 9 '25

NORIT
Comparative ash adsorption of vegetable and bone chars. P. M. Horton and P. T. Sengson. Ind & Eng Chem 16:165-7 F '24
Identification of Norit and other wood charcoals. H. G. Tanner. il Ind & Eng Chem 17:1191-3 N '25
Sorption of iodine and catalytic decomposition of hydrogen peroxide solution, by Norit charcoals. J. B. Firth and F. S. Watson. bibliog J Phys Chem 29:987-94 Ag '25

NORMAL schools
State Normal school, Glassboro, N.J., views and plans. Am Arch 127:pl 1-3 Ja 14 '25

NORRIS, James F.
President of the American chemical society. Chem Age 33:3 Ja '25

NORSE-AMERICAN centennial
Address of President Coolidge at Norse-American centennial. Comm & Fin Chr 120:3018-20 Je 13 '25

NORTH ADAMS, Massachusetts
City engineer's appeal against dismissal up for hearing in state court. Eng N 95:350-1 Ag 27 '25

NORTH American company
Annual report, 34th, for 1923. Comm & Fin Chr 118:1414-17 Mr 22 '24
Earnings. Comm & Fin Chr 121:586-7 Ag 1 '25

NORTH AMERICAN company—*Continued*
Financial structure of the North American company. G: C. Cox. Annalist 25:741-2 Je 1 '25
North American company's compactness. P. W. Garrett. map Elec W 84:437-8 Ag 30 '24
We find out why investors sell our stock. F. L. Dame. Ptr Ink 132:25-6+ Jl 9 '25

NORTH CAROLINA
North Carolina busy on diversified enterprises. F. A. Olds. Manuf Rec 88:82-3 Ag 13 '25

See also Architecture—North Carolina; Bonds, Government—North Carolina; Coal mines and mining—North Carolina; Electric industries—North Carolina; Geology—North Carolina; Hydroelectric plants—North Carolina; Insurance, Fire—North Carolina; Iron ores—North Carolina; Mines and mineral resources—North Carolina; Railroads—North Carolina; Roads—North Carolina; Wages—North Carolina; Water power—North Carolina; Water supply—North Carolina

Economic conditions

What North Carolina has done, and is doing. W. N. Everett. il Manuf Rec 85:77-82 My 22 '24

Industries and resources

North Carolina and the new industrial revolution. C. R. Fay. Econ J 35:200-13 Je '25
North Carolina manufactures, 1923. Manuf Rec 87:94 Ap 30 '25
Piedmont section of the Carolinas. R. G. Macy. il map Management & Adm 7:517-22, 663-8; 8:47-52, 167-71, 253-7, 403-8 My-O '24

Sanitary affairs

Relationship of the master plumber to the industrial development of North Carolina. M. Maffitt. Am Water Works Assn J 14: 143-6 Ag '25

NORTH CAROLINA road building and maintenance demonstration
American road builders association and North Carolina highway commission holds great Good roads show. il Good Roads 67:17-20 Jl '24; Pub Works 55:200-1 Je '24
Latin Americans study automotive road machinery at work. H. E. Everett. il Automotive Ind 50:1326-8 Je 19 '24
North Carolina road building and maintenance demonstration, North Carolina, June 3-10. H. K. Witherspoon. Eng & Contr (R & S) 61:1017-18 My 7 '24
South teaches Latin America how to make roads. A. V. Draper. Manuf Rec 85:71-3 Je 12 '24

NORTH CAROLINA state college

Textile school

New N.C. textile school. T. H. Stafford. Textile World 67:4140+ Je 27 '25

NORTH DAKOTA

See Agriculture—North Dakota; Banks and banking—North Dakota; Geology—North Dakota; Water supply—North Dakota

NORTH DAKOTA wholesale grocers' association
North Dakota wholesale grocers' association ordered by Federal trade commission to discontinue unfair methods of competition. Comm & Fin Chr 121:668 Ag 8 '25

NORTHERN Ohio power corporation
Northern Ohio power corp. stock. Moody's Inv Serv 17:355 O 29 '25

NORTHERN Pacific railway
Annual report, 27th, 1923. Comm & Fin Chr 118:3091-4 Je 21 '24; Same cond. Ry Age 76: 1538-40 Je 14 '24
Annual report, 28th, for the year ending Dec. 31, 1924. Comm & Fin Chr 120:3203-7 Je 20 '25; Ry Age 79:61-5 Jl 4 '25
Check-up on the steel trail blazer's empire. R. Hobson. il Am Bankers Assn J 16:712-14+ My '24
Letter of Howard Elliott to Magnus Johnson refuting allegations against New York New Haven & Hartford railroad and the Northern Pacific. Comm & Fin Chr 119: 43-4 Jl 5 '24
Northern Pacific main lines 76 per cent signaled. C. A. Christofferson. il chart diags map Ry Age 78:543-8 Mr 7 '25
Northern Pacific suffers from low rate level. map Ry Age 76:1511-12 Je 14 '24
U.S. contests Northern Pacific land grant. Ry Age 76:1834-7 Je 28 '24

NORTHERN states power company
Northern states power convertible 6½s, 1933. Moody's Inv Serv 17:331 O 8 '25.
Report for the year ended December 31, 1923. Comm & Fin Chr 118:2204-6 My 3 '24
Report for the year ended Dec. 31, 1924. Comm & Fin Chr 120:2304-5 My 2 '25

NORTHERN Texas traction company
Brief that won the 1924 Charles A. Coffin prize. il Elec Ry J 64:673-82 O 18 '24; Same. Aera 13:609-49 N '24
Northern Texas traction company wins Coffin prize. Elec Ry J 64:580-2 O 11 '24; Same. Aera 13:603-8 N '24

NORTHRUP furnace. See Electric furnaces, High frequency

NORTHWEST
How goes it with the rails in the Northwest? A. C. Laut. il Forbes 17:21-4 N 1 '25

See also Railroads—Northwestern states

Economic conditions

Don't worry about the Northwest. G. R. Martin. Nation's Business 12:48+ F '24
Economic resources of the Pacific Northwest. H. T. Lewis and S. I. Miller, eds. 523p Lowman & Hanford co., Seattle '23
Low railway traffic and prosperity in the Northwest. C: W. Foss. Annalist 26:150+ Ag 7 '25
Northwest farming conditions. R. Williams. Credit M 26:14+ Ap '24

Industries and resources

Conditions in the Northwest. R. Budd. il Forbes 13:383-4+ Ja 5 '24

NORTHWEST electric light and power association
Annual convention, 17th, Gearhart, Ore., June 25-27. J Elec 53:45-51 Jl 15 '24; N E L A Bul 11:504-6 Ag '24
Annual meeting, 2d, of the Technical section, Spokane, April 16-17. J Elec 54:337-9 My 1 '25

NORTHWESTERN university
Fifteen years of experience with a five-year engineering curriculum at Northwestern university. W. H. Burger and J: F. Hayford. J Eng Educ 15:512-22; Discussion. 523-8 Mr '25

NORTON, Charles Hotchkiss, 1851-
Awarded Scott medal. Iron Age 115:1850 Je 25 '25

NORWAY
Norway year book. S. C. Hammer. 492p Sverre Mortensen Bokhandel, Christiania '23
Vacationing in Vikingland. B. Blessum. il Bankers M 110:777-82 Ap '25

See also Geology—Norway; Hydroelectric plants—Norway; Oslo, Norway; Railroads—Electrification—Norway

Commerce

Norway; her water power and trade. A. Kildal. il Am Ind 25:15-20 Mr '25; Excerpts. Econ W n s 29:440-1 Mr 28 '25

See also Merchant marine—Norway

Economic conditions

Danish and Norwegian obligations. Moody's Inv Serv 17:173-6 My 21 '25

NORWAY—Economic conditions—*Continued*
Financial conditions in Norway. A. Kildal. Bankers M 110:501+ Mr '25

See also Banks and banking—Norway; Bonds, Government—Norway; Finance—Norway; Housing—Norway; Labor and laboring classes—Norway; Trade unions—Norway; Unemployment—Norway; Wages—Norway

Industries and resources

Nitrates from the air. J. M. Braham. il Chem & Met Eng 32:320-2 F 23 '25

Norway's industries. World's Markets 15:16-17 Ap '24

See also Automobile industry and trade—Norway; Electric industries—Norway; Electricity supply—Norway; Merchant marine—Norway; Paper industry and trade—Norway; Water power—Norway

NOTARIES
Notaries' manual. B: F. Rex. 7th ed, by W. H. Bohling. 425p Vernon law book co., Kansas City, Mo. '25

NOTATION, Dimensional. See Dimensional notation

NOTCHED bar testing
Comparative slow bend and impact notched bar tests on some metals. S. N. Petrenko. il diags U S Bur Stand Tech Pa 289:315-46 [bibliog. p. 345-6] '25

Effect of temperature on metals and alloys in the notched-bar test. R. H. Greaves and J. A. Jones. Engineering 120:308-10 S 4 '25; Abstract. Mech Eng 47:937 N '25

Effect of temperature on the behaviour of iron and steel in the notched bar impact test. R. H. Greaves and J. A. Jones. Engineering 120:524-6 O 23 '25; Abstract. Engineer 140:291-2 S 18 '25

Einfluss der vorbehandlung auf die mechanischen eigenschaften von kohlenstoff- und legiertem stahl, insbesondere die kerbzähigkeit in der kälte und wärme; abstract. F. Körber and A. Pomp. Stahl & Eisen 45: 1784-6 O 22 '25

Interpretation of the results of notched bar impact tests. Engineer 139:sup23-4 F 27 '25

Measuring metal's resistance to shock. R. G. Waltenberg. Chem & Met Eng 31:657-8 O 27 '24; Abstract. Mech Eng 47:51-2 Ja '25

Notched bar impact test. H. P. Philpot. Can Eng 48:437-8 Ap 28 '25

Was haben wir an der kerbschlagprobe? P. Ludwik. Stahl & Eisen 43:1427-8 N 15 '23

Zur auswertung der kerbschlagbiegeprobe. F. László. diags Stahl & Eisen 45:1413-22, 1521-5 Ag 20, S 3 '25

Zur frage der blausprödigkeit. E. Maurer and R. Mailänder. diags Stahl & Eisen 45:409-23 Mr 19 '25; Abstract (Blue brittleness). Engineer 139:sup91-3 Je 26 '25

Der zusammenhang zwischen kerbzähigkeit und gleitebenenbildung. F: Körber. il Stahl & Eisen 45:1146-9 Jl 9 '25

NOTCHING machines
Adjustable notching die. S. Server. diags Mach 31:983-4 Ag '25

NOTEBOOKS
Large uses of steel in small ways; notebooks and ledgers. Iron Tr R 77:78+ Jl 9 '25

NOTIONS (merchandize)
Co-operative selling: is it the hope of the small unit manufacturer; how 3-more plan is being applied to notions industry. D. Gridley. Ptr Ink 126:49-50+ F 28 '24

Product that dealers neglect; "domes of silence" promoted through hook-up with other small wares. il Sales Management 6: 665+ Mr '24

Advertising

Missionary men are not always needed; I. B. Kleinert rubber company. Ptr Ink 133: 153-4+ N 5 '25

NOTTINGHAM, England
Plan to make Nottingham Britain's first smokeless city. C. H. S. Tupholme. Gas Age 55:118 Ja 24 '25

Bridges

Bridge reconstruction work of the Ministry of transport. il diags Engineering 119:658-60 My 29 '25

NOVA SCOTIA
See Hydroelectric plants—Nova Scotia; Roads—Nova Scotia

NOVO fermasol
Novo fermasol a new product for desizing and destarching. J. R. Appleyard. Color Tr J 16:116-18 Ap '25

NOVOCRETE
Laboratory tests on novocrete. Eng & Contr (Bldgs) 62:896-8 O 22 '24

Mineralized sawdust aggregate for concrete. Concrete 25:106-7 S '24

NOVOLAKS. See Resinous products

NOYES, William Albert, 1857-
Sketch. A. M. Patterson. por Ind & Eng Chem 16:420 Ap '24

NOZZLES
Automatic exhaust nozzle cover. diag Ry Mech Eng 98:52 Ja '24

Depression effect in nozzle flow. H: A. Hepburn. diags Engineer 136:691-2 D 28 '23

Der druckabfall in glatten rohren und die durchflussziffer von normaldüsen. M. Jakob and S. Erk. diags Zeit Ver Deutsch Ing 68: 581-4 My 31 '24

Efficiency of steam-turbine nozzles. Mech Eng 46:148-50 Mr '24

Exhaust nozzle and front end adjustment. D. L. Derrom. il Ry Mech Eng 98:362-5 Je '24

Flow measuring nozzle. A. J. Nicholas. diags Power 62:365-6 S 8 '25

Importance of nozzle arrangements in spray ponds. M. F. Stack. Power Pl Eng 28:1219 D 1 '24

Method for comparing sprinkler nozzle performance. M. J. Zucrow. diags Eng N 93: 999-1001 D 18 '24

Nozzle efficiency; editorial. Engineering 117: 673-4 My 23 '24

Nozzle for testing feed-water heaters. diag Ry Mech Eng 99:330 Je '25

Oil-engine spray nozzles. H. F. Shepherd. diags Power 58:854 N 27 '23

Orifice design in sandblast nozzles. L: D. Peik. diags Am Mach 62:311-12 F 19 '25

Pipe losses in steam nozzles; abstract. A. L. Mellanby and W. Kerr. Mech Eng 47:674-5 Ag '25

Properties of steam in relation to nozzle and orifice flow. W: J. Walker. chart Power 62:173-5 Ag 4 '25

Proportioning of impulse blades and nozzles. G. Stoney. Engineering 118:473 O 3 '24

Safety nozzle for gasoline lines. il Management & Adm 9:481 My '25

Steam-nozzles research committee, third report. il diags Engineering 117:681-5 My 23 '24; Abstract. Engineer 137:574-5 My 23 '24; Excerpt. Mech Eng 46:484-6 Ag '24; Discussion. Engineering 117:657 My 23 '24; Engineer 137:575+; 138:418 My 23, O 10 '24

Steam-nozzles research committee, fourth report. diags Engineering 119:617-19, 651-4 My 15-22 '25; Abstract. Engineer 139:536-8 My 15 '25; Discussion. Engineering 119:612-14 My 15 '25; Engineer 139:538, 565-6 My 15-22 '25

Supersaturated steam in turbine nozzles. Power 62:445-6 S 22 '25

Turbine designer's wind tunnel; turbine air test. L. Wirt. il Gen Elec R 27:780-92 D '24; Same cond. Mech Eng 47:13-17 Ja '25

Turbine nozzle loss analyzed by air-flow measurement. il diags Power 60:875-7 D 2 '24

NUISANCES
City liability for nuisances. Pub Works 56:17 Ja '25

Court holds permit no defense for creation of nuisance. Eng N 93:258 Ag 14 '24

Damages from fumes denied. W. Gustin. Chem & Met Eng 29:1142-3 D 24 '23

NUISANCES—*Continued*
Laws relating to obnoxious odors. I. I. Goldsmith. Am Soc C E Pro 51:811-19 My '25; Discussion. 51:1166-8 Ag '25
Methods for determining the origin, prevalence, and effect of obnoxious odors and the evaluation of an odor nuisance. S. DeM. Gage. Am Soc C E Pro 51:820-31 My '25; Discussion. 51:1169-76 Ag '25
Nuisance of machinery vibration to neighbors. L. Childs. Am Mach 63:222 Ag 6 '25
Vibration and structural damage. E. Latham. il Engineering 117:163-4 F 8 '24
When does noise become a legal nuisance? L. Childs. Factory 32:39+ Ja '24

See also Public health; Smoke prevention; Trade waste

NUMBERING machines
How to work numbering machines. A. E. Mowrey. Inland Ptr 75:751 Ag '25
Noble and Westbrook automatic ferrule-numbering machine. il Am Mach 62:560 Ap 2 '25; Iron Age 115:1122 Ap 16 '25
Noble & Westbrook numbering-machine press. il Am Mach 63:719 O 29 '25

NUMBERS, Complex
Über einen rechenschieber für komplexe zahlen. J. Spielrein. Elektrotech Zeit 45:849-52 Ag 7 '24

NURSERIES (crèches). See Day nurseries, Factory

NURSES and nursing
Nursing a professional opportunity. Nation's Health 7:203-4 Mr '25

See also Illinois school of psychiatric nursing

NURSES and nursing, Public health
A. I. C. P. nurse case-worker. A. E. Dines. il Nation's Health 6:169-71 Mr '24
Define code of ethics for public health nurse. E. Gregg. Nation's Health 6:758-9 N '24
Definition of a public health nurse. M. E. Davis. il Nation's Health 7:4-6 Ja '25
East Harlem nursing and health demonstration. G. L. Anderson. il Nation's Health 6: 157-8+ Mr '24
Field of nursing and its relation to social agencies. J: B. Dawson. Nation's Health 6: 601-3+ S '24
Generalized nursing program under specialized supervision. M. G. Crowe. Nation's Health 6:155-6 Mr '24
Health officers' idea of a public health nurse. J: J. Sippy. Nation's Health 6:841-3 D '24
Inequalities of nursing services of state health departments. L. Minnigerode. Nation's Health 6:659-60 O '24
Japan's visiting nurse association gives valuable service. M. Miyajima and Y. Kusama. il Nation's Health 7:690-1 O '25
Public health activities in foreign fields. K. M. Olmsted. il Nation's Health 6:151-4+ Mr '24
Public health nursing in state departments of health. R. G. Leland. Nation's Health 6:173-4+ Mr '24
Public health principles given in basic nursing course. A. H. Grant. Nation's Health 7:546-7+ Ag '25
Records under a generalized nursing program. A. M. Hopkins. Nation's Health 6:520-2+ Ag '24
Trust fund of $500,000 created in New York community trust by Mrs Felix M. Warburg in behalf of visiting nurse service. Comm & Fin Chr 119:2487 N 29 '24

NURSES' homes
Clara Ford nurses' home, Detroit, Mich.; views and plans. Am Arch 128:pl 276-83 O 20 '25
Harper nurses' home, Detroit, Mich.; views and plans. Am Arch 124:420-420f N 7 '23
Nurses' home, Houston hospital, S.P. Co. il plans Ry R 75:208-10 Ag 9 '24

NURSES in industry. See Medical service, Industrial

NUTRITION
Discovering the life expectancy of standard foods. I. K. Russell. il Nation's Health 7: 96-8 F '25
Effect of scientific food consumption in increasing wealth. C. L. Alsberg. Ann Am Acad 115:57-64 S '24
Home food production standards improve rural health. M. Birdseye. il Nation's Health 7: 379-82+ Je '25
Mineral elements in animal nutrition. J. B. Orr. Soc Chem Ind J (Chem & Ind) 44:964-70 O 2 '25
Newer knowledge of nutrition. E. V. McCollum and N. Simmonds. 3d ed. 676p [bibliog. p. 569-655] Macmillan '25
Nutrition; the chemistry of life. L. B. Mendel. 150p Yale univ. press, New Haven '23
Nutrition work in the state health program. L. Lombard. Nation's Health 7:90-1 F '25
Nutritional laboratories established to aid in child research. I. G. Macy. il Nation's Health 7:13-15 Ja '25
Role of bread in nutrition. W. Hale. il Ind & Eng Chem 15:1221-4 D '23
Some aspects of the mineral metabolism of farm animals. W: Godden and A. D. Husband. bibliog Soc Chem Ind J (Chem & Ind) 44:671-4 Jl 3 '25
Some problems in the diagnosis of malnutrition. J. F. Perkins. Nation's Health 6:832-4 D '24

See also Diet; Metabolism; Milk; Proteins; Vitamins

NUTS
See Pecans

NUTS (machinery). See Bolts and nuts

NUTTER, Edward Hoit
Metallurgists of note. por Eng & Min J 120: 324 Ag 29 '25

NUWOOD
Man-made lumber; revising the structural arrangements of saw-mill waste to make possible its utilization. H. F. Weiss. il Sci Am 130:250+ Ap '24

NYSTAGMUS, Miners'. See Miners' nystagmus

O

OAK
American oaks. W: Trelease. 255p [bibliog. p. 207-14] National academy of sciences, Washington '24
Oak bark. T: H. Norton. Chemicals 24:9+ N 2 '25
Oak's position in our exports. A. H. Oxholm. Am Ind 25:28-9 Je '25

OAK flooring. See Flooring—Statistics

OAK PARK, Illinois
Public works
Public improvements in Oak Park, Ill. D. C. Meyers. il Pub Works 55:276-8 S '24

OAKLAND, California
Rapid transit
Bus operation by key system reviewed—more routes coming. Elec Ry J 66:219 Ag 8 '25
Co-operation established. Elec Ry J 63:389-90 Mr 8 '24
Fight likely in Oakland for higher fare. Elec Ry J 66:65, 104 Jl 11-18 '25
Key system transit company first annual report. Elec Ry J 65:676 Ap 25 '25
Water supply
$39,000,000 water project of the East Bay cities. map Eng N 93:960-1 D 11 '24

OAKUM
Oakum—what it is and how it's made. Marine R 55:214-15 Je '25

OAT hulls
Simultaneous production of pentosan adhesives and furfural from corncobs and oat hulls. F: B. LaForge. Ind & Eng Chem 16:130-1 F '24

OATS
Physiological studies on cereals; the occurrence of amino acids and polypeptides in the ungerminated oat kernel. S. L. Jodidi. bibliog J Fr Inst 198:201-11 Ag '24

OBELISKS
Problem of the obelisk. il Sci Am 131:15 Jl '24

O'BRIEN, John J.
New president of H. M. Byllesby and company and the Byllesby engineering and management corporation. por Elec W 84: 354 Ag 23 '24

OBSERVATION cars
Observation cars for the Union Pacific system. il diags plans Ry R 74:753-7 Ap 26 '24

OBSERVATIONS, Adjustment of
Adjustment of observations. N. Campbell. Philos Mag 6th ser 47:816-26 My '24
Use of medians for reducing observations relating to several quantities. F. Y. Edgeworth. Philos Mag 6th ser 46:1074-88 D '23

OBSOLESCENCE. See Depreciation

OBSOLESCENT products. See Products, Obsolescent

OCCUPATIONAL diseases. See Diseases, Industrial

OCCUPATIONAL hygiene. See Hygiene, Industrial

OCCUPATIONAL representation. See Representation

OCCUPATIONAL therapy
Establishing a city department of occupational therapy. K. A. Barnes. il Nation's Health 6:390-2 Je '24
Occupation as a substitute for restraint in the treatment of the mentally ill. L. V. Briggs. 205p L. V. Briggs, 7 Charles st., Boston '23
Occupational therapy for little homesick patients. M. Clark. il Nation's Health 7:30-2 Ja '25
Occupational therapy for the mentally and nervously ill. L: J. Haas. 409p [bibliog. p. 405-6] Bruce pub. co., Milwaukee '25
Value of occupational therapy to a nursing service. il Nation's Health 6:262-4 Ap '24

Bibliography

Occupational therapy. 4p Russell Sage foundation lib., New York '23

OCCUPATIONS
Census of occupations. Economist 100:1062-4 My 30 '25
Shifting of occupations among wage earners as determined by occupational history of industrial policyholders. L: I. Dublin and R. J. Vane, jr. Monthly Labor R 18:732-40 Ap '24
Trend of occupations in the population. M. Z. Jones. Monthly Labor R 20:970-8 My '25

See also Disabled, Occupations for

Bibliography

Guide to the study of occupations. F: J. Allen. rev. ed. 197p Harvard univ. press, Cambridge '25

OCCUPATIONS, Choice of
Choosing the right career. E: D. Toland. 222p Appleton '25
Choosing your life work. W: Rosengarten. 2d ed. 326p McGraw-Hill '24
The right job. K. M. H. Blackford and A. Newcomb. 603p 2v Doubleday '24
What shall I be; open roads for young men. C. H. Ernst. 252p Appleton '24
Why workers choose jobs. D. Fryer. Management & Adm 9:519-20 Je '25

See also Profession, Choice of; Vocational guidance

OCCUPATIONS, Dangerous
Extra risks in connection with life assurance. W. T. May. Econ W n s 30:348 S 5 '25
In Ohio sixty-nine industries pay higher compensation rates than coal mining. R. D. Hall. Coal Age 28:217-18 Ag 13 '25
Risks of thirteen industries exceed that of anthracite. R. D. Hall. Coal Age 28:253 Ag 20 '25

See also Accidents, Industrial; Coal miners; Diseases, Industrial; Employers' liability; Lead poisoning; Longshoremen; Lumbering; Mine accidents; Miners

OCEAN
Navy calls scientists to study ocean. Marine R 54:402 O '24
Our knowledge of the earth's natural resources; Gulf of Mexico to be base of researches planned by naval scientific expedition. G: E. Brandt. il Manuf Rec 86:67-71 O 16 '24
Storm effects on ocean inlets. M. P. Hite. map Am J Sci 5th ser 7:319-26 Ap '24

See also Concrete, Effect of sea water on; Continental shelf; Diving, Submarine; Hydrographic surveying; Icebergs; Marine fauna; Navigation; Sea level, Determination of; Sea water; Tides; Undertow; Waves

Color

Color of the sea. W. Shoulejkin. il Phys R 23:744-51 Je '24
Transparency and color of the sea. K. R. Ramanathan. Phys R 25:386-90 Mr '25

OCEAN credit union. See Credit unions

OCEAN currents
Tidal and current work of the Coast and geodetic survey. G. T. Rude. diags J Fr Inst 197:217-51 F '24

OCEAN liners. See Motor ships; Steamboats

OCEAN travel
Half-year ocean passenger traffic 450,000. Eng N 91:966 D 13 '23

OCHER
Improved way of washing ocher. A. H. Hubbell. il diag Eng & Min J 118:336-8 Ag 30 '24
Marketing of ocher. A. H. Hubbell. Eng & Min J 118:656-7 O 25 '24
Mining ocher at Cartersville, in Georgia. W. M. Weigel. il Eng & Min J 116:854-6 N 17 '23

OCTAGON house. See Washington, D.C.—Octagon house

OCTANES
Determination of surface tension with very small volumes of liquid, and the surface tensions of octanes and xylenes at several temperatures. T. W. Richards, C. L. Speyers and E. K. Carver. diag Am Chem Soc J 46:1196-1207 My '24

OCTAPHENYLDIETHYLSILICOTETRANE
Organic derivatives of silicon; octaphenyldiethylsilicotetrane. F: S. Kipping. Chem Soc J 123:2598-2603 O '23

OCTOIC acid. See Caprylic acid

OCTROI
La suppression de l'octroi de Paris. M. Lambert. Chimie & Ind 10:771-4 O '23

OCTYL alcohol
Rotatory dispersive power of organic compounds; octyl alcohol and octyl oxalate. T: M. Lowry and E. M. Richards. Chem Soc J 125:1593-7 Ag '24

OCTYL oxalate
Rotatory dispersive power of organic compounds; octyl alcohol and octyl oxalate. T: M. Lowry and E. M. Richards. Chem Soc J 125:1593-7 Ag '24

ODOMETER
Hub odometer applied to cars. il Elec Ry J 65:422 Mr 14 '25

ODONATA
Kansas Permian insects; the orders protodonata and odonata. R. J. Tillyard. il diags Am J Sci 5th ser 10:41-73 Jl '25

ODORS
Aerology for amateurs and others. E. V. Hill. il Heat & Ven 20:39-41 N '23
Laws relating to obnoxious odors. I. I. Goldsmith. Am Soc C E Pro 51:811-19 My '25; Discussion. 51:1166-8 Ag '25
Malodorous substances in sulphate. P: Klason. Tech Assn Pa ser 7:133-6 Je '24; Same. Paper Tr J 79:30+ Jl 10 '24
Methods for determining the origin, prevalence, and effect of obnoxious odors and the evaluation of an odor nuisance. S. DeM. Gage. Am Soc C E Pro 51:820-31 My '25; Discussion. 51:1169-76 Ag '25

See also Perfumery; Smell

Elimination

Control of odors from sewage treatment plants. J: F. Skinner. Am Soc C E Pro 51: 847-53 My '25; Same. Can Eng 49:191-3 Ag 4 '25; Discussion. Am Soc C E Pro 51:1182-92; 52:169-70 Ag '25, Ja '26
Detection and elmination of odors from oil refineries. R. S. Weston. il diags maps Am Soc C E Pro 51:854-83 My '25; Discussion. 51:1193-7, 2072 Ag, D '25
Elimination of odors from garbage disposal works. S: A. Greeley. Am Soc C E Pro 51:832-46 My '25; Discussion. 51:1177-81; 52: 355 Ag '25, F '26; Excerpt. (I. S. Osborn). Pub Works 56:295-6 Ag '25
Odor elimination. A. L. Fales. bibliog Boston Soc C E J 11:135-76; Discussion. 176-86 Ap '24
Taking the stenches out of industry. J. H. Collins. il plan Sci Am 130:378-9+ Je '24

OERTLING balance
Eötvös torsion balance improved. Eng & Min J 119:745 My 2 '25; Chem Age (Lond) 12:397 Ap 25 '25

OFFICE appliances
Labor-saving appliances in accounting work. il Ry R 75:1-6 Jl 5 '24
Labor saving office equipment. A. E. N. Gray. 12p American management assn., 20 Vesey st., New York '24
Little things that tell in the smooth routine of the business office. E. Boykin. Credit M 27:17+ Jl '25
Mechanical aids in accounting. F. A. Brine. Am Gas J 121:738-40 Ag 9 '24
Office appliances and stationery. il Dun's Int R 43:55 Ap '24
Office equipment that spells efficiency. E. T. Keyser. il Am Exporter 95:7-9+ Ag '24
Workable production control plan for the small plant. A. A. Dobson. il Factory 32: 652-4 My '24

See also Addressing machines; Bookkeeping machines; Calculating machines; Cash registers; Counting machines and devices; Dictograph; Office supplies; Payroll machines; Tabulating machines; Typewriters

Exhibitions

Business show. H. W. Martin. il Dun's Int R 43:43-7 Ap '24

OFFICE boys
Office or messenger boy problem. W: L. Stoddard. Management & Adm 7:50 Ja '24

OFFICE buildings
Acquila court, Omaha. J. W. Hanbery. Arch Rec 55:208 F '24
Administration buildings for industrial plants. P: Behrens. il plans Am Arch 128:167-74, pl 224-6 Ag 26 '25
Attractive architectural treatment used on new office units for Florida East Coast at St Augustine. il plans Ry Age 78:1633-5 Je 27 '25
Brooklyn Edison building, Brooklyn, N.Y. Arch & Bldg 56:44+, pl 107-9 My '24
Brotherhood of locomotive engineers cooperative national bank and office building, Cleveland, Ohio. Arch & Bldg 57:77, pl 185-6 S '25
Building at 1560 Broadway, New York city. plan Arch & Bldg 57:72, pl 182-4 Ag '25
Depreciation of office buildings. Am Arch 127: 518 Je 3 '25
Designing the office building lobby. il diag Am Arch 126:241-6 S 10 '24
Dignifying a by-product; office building of Vermont marble company. S. W. St Clair. il plan Am Arch 126:327-30 O 8 '24
District office building of the Consolidated gas company, New York city. Arch & Bldg 57:87, pl 211-12 O '25
Eliminating fire hazards in office buildings. R. P. Miller. Arch Forum 41:117-18 S '24
Exterior architecture of office buildings. R. M. Hood. il Arch Forum 41:97-9 S '24
Genesee building, Buffalo, N.Y. Arch & Bldg 56:86+, pl 187 S '24
Height of buildings in Boston. J: R. Nichols. Arch Forum 40:83-4 F '24
Highest concrete building; 274 ft. above sidewalk; United Brethren building at Dayton, Ohio. il plans Eng N 93:177-80 Jl 31 '24
Insurance exchange building, Montreal. J. P. Anglin. il plan Can Eng 47:563-5 D 2 '24
Materials and maintenance. E: Van Vleck. Arch Forum 41:119-20 S '24
Medical arts building, Dallas. W. J. Knight. il diags plans Arch Forum 39:285-90 D '23; Same. Eng & Contr (Bldgs) 61:177-84 Ja 23 '24
Modern home of the Los Angeles gas and electric corporation. il J Elec 54:132-3 F 15 '25
New building of the San Joaquin light & power corporation. R. Garman. il J Elec 52: 274-8 Ap 15 '24
New P. G. & E. building. C. H. Snyder. il Eng & Contr (Bldgs) 64:700-1 S 23 '25
Office and exhibition building for furniture industry. il diags plan Eng N 93:1033-7 D 25 '24
Office building problem in New York. E. J. Kahn. il Arch Forum 41:94-6 S '24
Office building problems. 153p Pacific coast conference of building owners and managers, Los Angeles '23
Office building vestibules. W: F. Lamb. il plan Arch Forum 41:105-8 S '24
Office buildings, past, present and future. C. T. Coley. il Arch Forum 41:113-14 S '24
Outline of requirements for profitable office buildings. C. F. Palmer. Eng & Contr (Bldgs) 63:1409-12 Je 24 '25
Packard building, Philadelphia, Pa. Arch & Bldg 57:90, pl 219-21 O '25
Pennsylvania building, New York City. Arch & Bldg 57:43, pl 109-10 My '25
Planning of office buildings. H. W. Corbett. il diags Arch Forum 41:89-93 S '24
Postponing the new office building. Management & Adm 6:738 D '23
Santa Fé engineering quarters in new office building; layout of engineering department and drafting room. il diags Eng N 95:464-6 S 17 '25
Santa Fe opens largest railroad office building at Topeka. il plan Ry Age 78:1155-8 My 9 '25
Some recent office buildings in San Francisco. W: C. Hays. il plans Arch Forum 41:101-4, pl 33-4 S '24
Superior Portland cement company occupies new office. il diag plans Concrete 23:sup77-9 N '23
Tall concrete buildings in Texas. il Concrete 27:48-9 O '25
Unusual work on office building; new building of Boston Chamber of commerce. il plans Bldg Age 47:118-20 My '25
Virginia builds office building for state departments. il diags plan Eng N 93:252-5 Ag 14 '24

See also Architects' offices; Brokers' offices; High buildings; Insurance company buildings; Mercantile buildings; Newspaper offices; Office lighting; Offices; Printing offices; Publishing buildings; Telephone company buildings; *also* Chicago Tribune building; Equitable life assurance society building, New York; Postum cereal company building, New York; Standard oil company building, New York; Straus, S. W., & company building, Chicago; Wrigley building, Chicago

OFFICE buildings—*Continued*

Bibliography

List of publications or articles in various periodicals which deal with different phases of office building design, construction and maintenance. Arch Forum 41:159-60 S '24

Cleaning

Time-studying the cleaning crew. E. Schultz. System 46:98-9 Jl '24

Construction

How a contractor schedules operations for a large office building. W. J. Lynch. W Soc E J 29:265-72 Je '24; Same. Eng & Contr (Bldgs) 62:190-6 Jl 23 '24

Rapid progress made on 32-story office building at Chicago. il Eng N 92:541 Mr 27 '24

Designs and plans

American radiator building, New York city. H. W. Corbett. plans Arch Rec 55:473-7 My '24

Medical office building, Seattle, Washington; views and plans. Am Arch 128:pl 301-3 N 5 '25

Office building for Clarence Whitman & sons, inc., New York; views and plans. Arch Forum 42:pl 56-7 My '25

Office building for Delaware Title & insurance co., Wilmington, Del. Am Arch 127:pl 136-8 Je 3 '25

Office building for Johns-Manville, inc., N.Y. il plans Am Arch 126:373-6, pl 129-35 O 22 '24

Office building for the state of Virginia, Richmond, Va.; views and plans. Am Arch 127: pl 18-20 Ja 28 '25

Office building of Lea & Febiger, Philadelphia, Pa. Am Arch 126:521-2 D 3 '24

Office building reference number. Arch Forum 41:89-160 [bibliog. p. 159-60] S '24

Straus building, Chicago. A. N. Rebori. Arch Rec 57:385-94, 417-24 My '25

Straus building, Chicago. L. J. Sheridan and W. C. Clark. il Arch Forum 42:225-8, pl 45-7 Ap '25

Westinghouse building, New York. Arch & Bldg 56:73-4, pl 145-9 Jl '24

Economic aspects

Office building and the city. E. Shultz. Arch Forum 41:141 S '24

Equipment

Modern office building appliances. B. H. Belknap. il Arch Forum 41:155-7 S '24

Finance

Economic factors of the office building project. J. J. Sheridan. diags plans Arch Forum 41:121-32 S '24; Same. Eng & Contr (Bldgs) 63:652-60, 869-76 Mr 25, Ap 24 '25

Financing the office building. C. S. Taylor. Arch Forum 41:137-9 S '24

Rental of a new office building and rental values for office space. W. H. Ballard. Am Arch 125:447-9 My 7 '24

Heating and ventilation

Cost of heating office buildings. Arch Forum 42:323 My '25; Same. Eng & Contr (Bldgs) 64:197 Jl 22 '25

Heating and power requirements of office buildings. F. F. McCammon. Elec W 83:681 Ap 5 '24

Heating, cooling and ventilating system for office building. J. S. Moulton. il Power 61: 377-8 Mr 10 '25

Heating, plumbing, and ventilating the Straus building. E. W. Riesbeck. il plans Dom Eng 109:19-24 N 15; 26-30 N 22 '24

Heating the Wrigley building. E. W. Riesbeck. plans Dom Eng 107:27-8+ Je 7 '24

High office buildings adapted to use of gaseous fuel. C. M. Robert. il Gas Age 55:531-2 Ap 11 '25

Ingenuity saves fuel in office building. il Power 61:778-9 My 19 '25

Insuring fresh air supply for banking rooms and small offices. C: L. Hubbard. diags Sanitary & Heat Eng 102:113-15+ Ag 22 '24; Same. Sheet Metal Worker 15:755-6+ O 24 '24

Summer ventilation and cooling of office buildings. P: H. Bryce. Heat & Ven 21: 56-7 Ag '24

System for supplying cool air directly to individuals in a spacious area. H. S. Rich. Ind Eng 82:592 D '24

Lighting

High-intensity illumination; McGraw-Hill company's offices and plant. il diags Elec W 84:943-9 N 1 '24

See also Office lighting

Management

Architect and the building manager. W: M. Ellis. Arch Forum 41:135-6 S '24

OFFICE economist (periodical)

Notable series relating to special libraries in Office economist. Special Lib 16:12-13 Ja '25

OFFICE employees. See Office workers

OFFICE furniture

Convenient cabinet for the small engineering office. il Eng N 95:383 S 3 '25

See also Desks; Filing cabinets

OFFICE lighting

Fitting the office with the proper light. J. J. Kirk. System 46:492+ O '24

Manual of lighting practice for railroads. Ry R 77:663-4 O 31 '25

Suggestions on proper office lighting. H. C. Barnard. il J Elec 54:280-2 Ap 15 '25

Symposium on office lighting. A. B. Oday and others. plans Illum Eng Soc 19:531-45; Discussion. 545-67 Jl '24

OFFICE management

Clerks that gnaw at profit; the rapidly growing excess of desk workers a grave business problem. W: H. Leffingwell. Annalist 23: 318+ Mr 10 '24

Codes of office management. T. G. Woolford. Management & Adm 7:92 Ja '24

Commission house up-to-date. L: R. Keeffe. diags Textile World 65:2955-6+ My 3 '24

Creeping extravagances in business—office barnacles. E. J. Kulas. Comm & Fin Chr 121:1402-3 S 19 '25

Goddess of the reception room. E. C. McAnley. Sales Management 7:1872+ D '24

Handling callers in the business office. H. Hysell. 106p Purchasing agent co., inc., New York '24

Handling the paper that represents money. il System 48:277-8 S '25

How inquiries from business men are handled by the government. Ptr Ink 126:81-2+ Mr 6 '24

How we stopped buck-passing in our office. C. E. Thorne. System 45:467-9+ Ap '24

How we trimmed the office budget 70%. H. Coggan. il System 47:178-80+ F '25

I find out how to cut expenses. T. L. Hoffman. il System 47:297-302+ Mr '25

Junior training for modern business. J: G. Kirk and M. A. Waesche. 376p John C. Winston co., Philadelphia '25

Manuel d'organisation du bureau à l'usages des écoles de commerce et du personnel des bureaux modernes. A. Navarre. 272p Delagrave, Paris '24

Office management, principles and practice. W: H: Leffingwell. 850p Shaw '25

Office mechanism. I: Deutsch. Credit M 27: 12 Ja; 14-18 F '25

Office methods and equipment. Published in monthly numbers of System

Organizing the office for speed. G: C. Moody. il System 46:144-6 Ag '24

Present state of the art of office management. W. H. Leffingwell. Taylor Soc Bul 10:96-104 Ap '25

Production control reports; the first step in increasing the efficiency of office departments. F. L. Rowland. Taylor Soc Bul 10: 168-70 Je '25

OFFICE management—*Continued*
Salary administration. 127p American management assn., New York '25
Six ways to handle office-work overloads. System 47:607-10+ My '25
6 ways to save office time. System 46:580-1 N '24
Suggestions, and some questions about your office methods. F. W. Parsons. Gas Age 56: 251-2+ Ag 22 '25
This wage-making plan has cut our office costs for three years. P. T. Tobey. il System 48:405-8 O '25
Three plans that cut out office wastes. il System 45:33 Ja '24
Trip through the new home of Sales management. il Sales Management 9:521-5+ O 17 '25
20 plans that save hours and dollars for us. R. C. Schumann. il System 48:292-4+ S '25
Waste in office work. W: H. Leffingwell. Taylor Soc Bul 9:3-4 F '24
Ways and means to effect business economies. Gas Age 55:647-8+ My 2 '25
We even budget our factory forms. J. P. Keith. il Factory 32:835-6 Je '24
Well-rounded group of office methods. R. C. Schumann. il System 47:737-40+ Je '25
Woman who manages girls speaks her mind. P. H. Welch. Forbes 15:687-8 Mr 1 '25

See also Accountants' offices; Accounting; Accounting departments; Advertising departments; Architects' offices—Management; Billing; Business management; Color in office management; Commercial correspondence; Desks; Executives; Files and filing (documents); Mail; Mailing departments; Office workers; Payrolls; Printing offices—Management; Railroads—Office management; Records; Stenographers; Telephone in business

OFFICE management association, Life. See Life office management association

OFFICE managers
Why is an office manager? E. H. Fish. Management & Adm 9:71-2 Ja '25

OFFICE partitions. See Partitions, Office

OFFICE supplies
Specifications for the purchase of office supplies. R. Sherran. Management & Adm 9: 333-6 Ap '25

See also Office appliances

OFFICE workers
Clerical trades unions in Britain and Russia. Annalist 23:182+ F 4 '24
Diagnostic test of aptitude for clerical office work. A. M. Ruggles. 85p Teachers college, Columbia univ., New York '24
Equitable plan for paying office workers by results. P. H. Wilson. il System 46:425-8 O '24
Psychological tests for office occupations. A. W. Kornhauser. Univ J of Business 2:22-51 D '23
Selecting the salaried employee. E. J. Benge. Ind Management 69:279-83; 70:16-20 My, Jl '25
Sick leave among New York office workers. Monthly Labor R 21:598-9 S '25

See also Office boys; Stenographers

OFFICES
Architecture and decoration in the modern office; with special reference to the offices of the Standard oil company of New Jersey, Standard oil building, New York. il diags plan Am Arch 128:15-20 Jl 1 '25
Office interiors. J: T. Boyd, jr. il Arch Forum 41:143-6 S '24
Office layout and routine. E. Boykin. il plan Credit M 27:10-11+ S '25

See also Architects' offices; Office buildings; Office lighting; Office management; Partitions, Office

Location
Locating an office. W. D. Bruner. Taylor Soc Bul 9:225-9 O '24

OFFSET printing. See Printing, Offset

OGDEN, Utah

Railroads
Ogden, Utah, has new union station. il Ry Age 78:234-5 Ja 17 '25
Ogden, Utah, union station opened to the public. Ry R 75:942-3 D 13 '24

OHIO

See also Coal—Ohio; Electric plants (central stations)—Ohio; Motor bus lines—Ohio; Petroleum—Ohio; Roads—Ohio; Steel industry and trade—Ohio

Capitol
Greek revival capitol at Columbus, Ohio. T: E. O'Donnell. il plan Arch Forum 42:5-8 Ja '25

OHIO copper company of Utah
Ohio copper company of Utah. Eng & Min J 117:470-1 Mr 15 '24

OHIO electric light association
Resolutions adopted at convention, Cedar Point, Ohio, July 10, to merge with East Central geographic division of N.E.L.A. N E L A Bul 11:501-3 Ag '24

OHIO federation of foremen's clubs
Convention, 1st, Dayton, Ohio, May 14. Am Mach 60:790a My 22 '24

OHIO motor bus owners' association
Annual meeting, Columbus, Nov. 14. Bus Transportation 2:590 D '23
Convention, Cleveland, Oct. 14-15. Bus Transportation 4:579 N '25

OHIO river
Comparison of rail and river transportation costs in relation to the Ohio river and its tributaries. F. H. Alfred. Am Soc C E Pro 51:1663-73 O '25
Ohio river improvement and transportation. Eng N 94:730 Ap 30 '25
Pollution and natural purification in the Ohio river. R. Suter. Am Water Works Assn J 13:314-22 Mr '25
Push Ohio river improvement. Iron Tr R 76: 732 Mr 12 '25
Relation of the Ohio-Mississippi waterways to production and industrial development. H. B. Luther. Am Soc C E Pro 51:1659-62 O '25
Relation of the Ohio river and its tributaries to transportation in the United States. C. W. Kutz. Am Soc C E Pro 51:1642-58 O '25; Abstract. Ry Age 78:1139-41 My 9 '25; Discussion. Am Soc C E Pro 51:1883-96, 2017-24; 52:135-44, 334-6 N '25-F '26
River improvement at Louisville, Ky. Bradstreet's 53:594-5 S 12 '25
Sewage disposal and water purification in the upper Ohio river basin. P. Burgess. Am Water Works Assn J 13:293-8 Mr '25
While Congress wastes millions Ohio river traffic languishes. F. B. Pletcher. Marine R 55:83-5 Mr '25

OHMMETERS
Accuracy tests for meggers. H. B. Brooks. diags Elec W 85:973-6 My 9 '25
Mikro-ohmmeter. il diags Elektrotech Zeit 46: 465-6 Mr 26 '25
Über ein neues ohmmeter der Velmag. A. Steinert. il diags Elektrotech Zeit 46:694-6 My 7 '25

OIL. See Oils and fats; Petroleum

OIL, Gas. See Gas oil

OIL, Insulating
Insulating oils for oil circuit breakers. D. Harvey. il diags Elec J 21:573-8 D '24; Same cond. Power Pl Eng 29:291-3 Mr 1 '25
Purifying circuit breaker oil. L. H. Clark. il diags Elec W 86:562-5 S 19 '25
Switch oil requirements and characteristics. C. J. Rodman. Elec J 22:216-19 My '25
Über die notwendigkeit einer verschärfung der prüfbedingungen für transformatoren-, schalter- und turbinenöle. v. d. Heyden and Typke. Elektrotech Zeit 46:1264-5 Ag 20 '25

See also Oil, Transformer

OIL, Transformer
Dehydration of insulating oil. il Electrician 91:520-1 N 9 '23
Durchschlagsfestigkeit gebrauchter transformatorenöle. Dr v.d. Heyden and Dr Typke. Elektrotech Zeit 45:1059 O 2 '24
Effects of gases in transformer oils. C. J. Rodman and A. H. Maude. bibliog il diag Am Electrochem Soc Trans v 47 (preprint 1):1-18 Ap '25
Filtering transformer oil in the field. F. C. DeWeese. Power 60:1016-17 D 23 '24
Halogenated hydrocarbons as dielectrics; effect of flash and fire point of transformer oils. H. C. P. Weber and R. H. Wynne. Am Electrochem Soc Trans v 46 (preprint 13):189-95 O '24
Oil maintenance methods. M. Linn. Elec W 85:819-21 Ap 18 '25
Oil-purification plant on wheels. A. H. Nicholson. il Elec W 86:567 S 19 '25
Power plant chemistry; abstract. W. M. Miles. Elec R (Lond) 95:36-7 Jl 4 '24
Preventing sludging of transformer oils. L. Fokes. il Elec W 85:105 Ja 10 '25
Switch and transformer oil. C. Sylvester. Elec R (Lond) 95:73 Jl 11 '24
Transformatorenöle. Dr v.d. Heyden and Dr Typke. il Elektrotech Zeit 45:931-5 Ag 28 '24
Transformer oil problems. Power 61:994 Je 23 '25
Über die leitfähigkeit und die dielektrische festigkeit von transformatorenöl. Elektrotech Zeit 45:727-8 Jl 3 '24
Die verteerungszahl von transformatorenölen. Dr v. d. Heyden and Dr Typke. Elektrotech Zeit 46:889-93 Je 11 '25

Testing
Corona in oil. A. C. Crago and J. K. Hodnette. diags Am Inst E E J 44:219-22 Mr '25; Discussion. 44:638-40 Je '25
De Laval-Watson oil testing outfit. diag Engineering 118:877 D 26 '24
Dielectric strength of high-pressure transformer and switch oils. H. D. Jukes. Elec R (Lond) 95:845-7 D 5 '24; Discussion. 96: 289-90, 571-2 F 20, Ap 10 '25
Effect of moisture and temperature on the power factor of transformer oil. J. E. Shrader. diags J Fr Inst 199:513-38 Ap '25
Life test for transformer oils. E. A. Snyder. il Am Soc T M Pro 24 pt 1:638-41 '24
Reports on the progress of naphthology during 1924; insulating oils. R. W. L. Clarke. bibliog Inst Pet Tech J 11:341-2 Ag '25
Sludging tests for transformer oils; a criticism of various test methods and a proposed new method of test. E. A. Snyder. Am Soc T M Pro 24 pt 2:954-63 '24

OIL analysis
Characteristics of the hydrocarbons in Mid-continent kerosene. C. R. Wagner. Ind & Eng Chem 16:135-6 F '24; Same. Pet Age 13:26-7 F 15 '24; Same. Inst Pet Tech J 10: 220-4 Ap '24
Examination of a turbine oil sludge. A. Salathe. Ind & Eng Chem 17:414-15 Ap '25
Foreign material in used oil; its character and effect on engine design. G. A. Round. il Soc Auto Eng J 16:232-6 F '25; Abstract. Automotive Ind 52:189-90 Ja 29 '25; Discussion. Soc Auto Eng J 16:140b-e F '25
Improved methods for determination of phenols in tar oils. J. J. Morgan and M. H. Meighan. bibliog diag Ind & Eng Chem 17:626-8 Je '25
Method for estimating acidity of oils. D. C. Cox. Am Soc T M Pro 24 pt 1:659-60 '24
Eine neue wasserbestimmungsmethode in mineralölen. Dr St Reiner. diag Elektrotech Zeit 46:1447-8 S 17 '25
Report of sub-committee XIII on organic acidity and saponification. Am Soc T M Pro 24 pt 1:543-7 '24
Solvent-index of refraction method of determining oil in wax. R. E. Wilson and R. E. Wilkin. Ind & Eng Chem 16:9-12 Ja '24
See also Butter fat—Analysis; Gasoline—Analysis; Petroleum—Analysis

OIL as fuel
Burning of fuel oil in railroad locomotives. J. M. Johnston. Am Pet Inst Bul 4:61-6 D 31 '23; Same abr. Nat Pet N 15:23-4+ D 12 '23
Cement industry may offer bigger market for fuel oil. L. N. Duryea. Nat Pet N 16:105 Ag 13 '24
Coal versus oil. E. F. Miller. Power 59:621 Ap 15 '24
Competition of oil with coal for fuel purposes begins to lose its edge. Coal Age 26:50-1 Jl 10 '24
Conservation and oil burning. W: T. Dean. Heat & Ven 21:54-5 S '24
Consumption of fuel oil by locomotives in 1923 compared with 1922. Am Pet Inst Bul v 5:3-4 Mr 13 '24
Consumption of fuel oil by locomotives in 1924. Manuf Rec 87:86 Mr 19 '25
Control of power production. C. L. Hubbard. il diags Factory 34:274-7+ F '25
Development of the use of fuel oil for power and heat generation. Econ W n s 27:800-2 Je 7 '24
Expanding fuel oil market by using oil to supplement gas. H. L. Doherty. Nat Pet N 17:39-40 My 27 '25
Facts and figures on fuel oil. Dom Eng 109: 37 N 1 '24
Fallacy of oil as a general fuel. R. B. Williams. Am Gas J 123:28+ Jl 11 '25
Fourth annual meeting of the American petroleum institute. Oil Paint & Drug Rep 104:44g-h D 17 '23
Fuel oil burning to obtain the highest temperature combined with uniform heat distribution. G. Ross. Am Cer Soc J (Bul) 7:117-20 Ap '24
Fuel oil characteristics and advantages as compared with coal. A. P. Bjerregaard. Nat Pet N 15:32a-b O 17 '23; Same. Gas Age 52: 649-50 N 24 '23
Fuel oil for power generation. Soc Auto Eng J 15:316 O '24
Fuel oil heating. Heat & Ven 21:88-91 S '24
Fuel oil, its supply and efficient use; abstract. E. C. Wiley. Mech Eng 47:649 Ag '25
Fuel oil or coal for steam generation. F. H. Daniels. Power 59:463-4 Mr 18 '24
Fuel oil viscosity. G. B. Vroom. diags Marine Eng 30:629-32 N '25
Fuel oils. J. B. Rathbun. Pet Age 14:61+ Jl 15; 61+ Ag 1 '24; 15:57+ Ja 1; 61 F 1; 59 Mr 1; 59 My 1 '25
Fuel oils and their applications. H. V: Mitchell. 171p Pitman '24
Fuels and combustion. Power 61:9-12 Ja 6 '25
Furnace oil supply to be adequate even at moderate price. W. K. Halbert. Nat Pet N 16:61+ S 17 '24
Future supply of heavy oil fuel is assured. H. W. Camp. Nat Pet N 16:26-8+ Mr 5 '24; Same. Pet Age 13:73-4+ Mr 15; 25-6+ Ap 1 '24
Grade of oil to burn. L. T. Bradley. Brass W 20:384 N '24
Heavy distillates, heavy crudes and residues. H. Moore. Inst Pet Tech J 10:607-12 S '24
How to improve oil burning on locomotives. J. N. Clark. Ry R 75:1025-7 D 27 '24; Same cond. Ry Age 77:555-8 S 27 '24; Same cond. Ry Mech Eng 98:592-4 O '24
Jobbers develop special equipment for distillate delivery. J. C. Chatfield. Nat Pet N 15:35+ N 21 '23
Kansas City oil men meet city's fuel needs as gas wanes. J. C. Chatfield. Nat Pet N 15: 51+ N 14 '23
Mid-continent refiners ready to aid in meeting furnace oil demand. J. C. Chatfield. Nat Pet N 16:73-4 N 12 '24
Narrow fuel oil margins demand speed and develop economy. W. K. Halbert. Nat Pet N 16:69-70+ N 19 '24
Oil and burner men meet to improve understanding of oil industry. L. E. Smith. Nat Pet N 15:33E-F D 19 '23
Oil and coal as locomotive fuels. M. C. M. Hatch. Ry Age 76:1515 Je 14 '24; Same. Ry Mech Eng 98:473 Ag '24

OIL as fuel—*Continued*
Oil burning and oil-burning equipment in industrial and chemical plants. W. F. Schaphorst. il diags Ind & Eng Chem 17:5-10 Ja '25
Oil for oil burners. Dom Eng 108:35 S 27 '24
Oil industry enjoys good market in warming up the oranges. il Nat Pet N 16:105+ My 7 '24
Oil—the next problem for the gas executive. W: M. Carpenter. Gas Age 55:327-30, 373-4+ Mr 7-14 '25; Excerpts. Am Gas J 122: 201-2 Mr 7 '25
Oil used to heat 9-story garage. C. W. Geiger. il Power Pl Eng 27:1148 N 15 '23
Ontario chapter, A.S.H. & V.E. discusses oil burning. Heat & Ven 22:72-4 Ja '25
Place of furnace oil in the petroleum industry. O. P. Keeney. Nat Pet N 16:67-8+ D 24 '24; Same. Am Pet Inst Bul 5:83-7; Discussion. 96-8 D 31 '24
Problems in distribution of domestic fuel oil and distillates. C. L. Maguire. Nat Pet N 16: 61-2 N 26 '24
Recuperator oil smelter. R. MacDougall. il Am Cer Soc J 8:541-5 Ag '25
Relative rate of growth shows further inroads of oil on coal consumption. F. G. Tryon, W. F. McKenney and E. E. Finn. Coal Age 27: 91-4 Ja 15 '25
Study of viscosities of fuel oil made from Panuco crude. R. H. Brounlee and W: H. Coburn. Nat Pet N 15:81-2+ N 21 '23; Same, with charts. Inst Pet Tech J 9:440-51 D '23
Use oil in malleable furnace. B. R. Mayne and C. Joseph. diags plans Foundry 52:472-5 Je 15 '24
Utilization of petroleum and its products. Am Pet Inst Bul 4:61-88 D 31 '23
What oil burner and oil heating industries can do for each other and the public. J. P. B. Fiske. Nat Pet N 15:43+ D 26 '23
Zur kenntnis der heiz- und treiböle. D. Aufhäuser. Zeit Ver Deutsch Ing 68:419-22 Ap 26 '24

See also Acetylene; Boilers—Oil firing; Boilers, Marine—Oil firing; Gas and oil engines—Fuel; Gasoline; Kerosene; Liquid fuel; Locomotives—Fuel; Motor truck engines—Fuel; Naphthalene; Oil bunkering stations; Oil burners; Oil burning equipment; *also* American nokol company, Chicago

Cost

Coal much cheaper than oil, plant's figures show. Coal Age 27:48 Ja 8 '25
Comparing oil fuel and coal costs. W. F. Schaphorst. chart Eng & Min J 117:407-8 Mr 8 '24
Why pay high prices for high gravity fuel oil? D. S. Frank. Power Pl Eng 29:1047 O 15 '25

Cost of atomizing

Cost of atomizing fuel oil. C. Tyler. Chem & Met Eng 32:323 F 23 '25; Same cond. Power 61:367 Mr 10 '25

House heating

Domestic oil burning. L. B. French. Sanitary & Heat Eng 101:36-8 Ja 25 '24; Same. Sheet Metal Worker 15:10-11+ F 1 '24
Furnace oil for the home; some points to be ironed out. C: R. Miller. Nat Pet N 17: 82-3 N 4 '25
Heating of houses with oil. C. H. Chalmers. Am Pet Inst Bul 4:77-9 D 31 '23; Same. Sanitary & Heat Eng 101:4-5+ Ja 11 '24; Same. Sheet Metal Worker 14:1000-2 Ja 18 '24; Same cond. Arch & Bldg 56:5-6 Ja '24
Heating the small residence with oil. C. F. Olmsted. il diags Sanitary & Heat Eng 101: 133-5, 203-4, 275-6, 340-3; 102:13-15, 81-2, 149-51, 225-7 Mr 7, Ap 4, My 2, 30, Jl 11, Ag 8, S 5, O 3 '24; Same abr. Sheet Metal Worker 15:153-4+, 197-8+ Mr 28-Ap 11 '24
House-heating by combining the use of gas and oil. H: O. Loebell. Heat & Ven 22: 84-6 S '25
House heating with oil. A. H. Dieke. Sheet Metal Worker 15:419-20 Je 20 '24
Interest is varied in furnace oil; standardization seems need. R. B. Stafford. Nat Pet N 16:41+ Ja 2 '24
Oil as fuel in large residences and apartment buildings. W. F. Schaphorst. il Sanitary & Heat Eng 103:103-4 F 20 '25
Oil burners for residential property. A. C. Carruthers. diags Safety Eng 47:60-4, 138-41 F-Mr '24
Oil burning boilers—their design and characteristics. Heat & Ven 22:60-1+ O '25
Oil fuel for domestic purposes. C: L. Hubbard. il Bldg Age 46:91-3 F; 76 Mr '24
Oil is cheaper than coal in home heating considering all costs. Nat Pet N 17:71+ Ja 14 '25
Pros and cons of fuel-oil heating for the home. Heat & Ven 21:63-4 Ag '24
Some hints on installing and operating domestic oil burners. C. H. Chalmers. il Am Soc Heat & V E J 31:471-6 O '25
Status of domestic oil heating. A. H. Ballard. Am Soc Heat & V E J 30:106-8 F '24; Same. Sanitary & Heat Eng 101:75-6 F 8 '24; Same. Arch Forum 40:sup83-4 My '24; Discussion. Am Soc Heat & V E J 30:273-8 Mr '24

Marine use

Marine consumption of fuel oil. Am Pet Inst Bul 5:3-4 Ap '24

See also Boilers, Marine—Oil firing

Prices

Average price of fuel oil in the United States —by months, 1923-1924. J. E. Pogue. Sanitary & Heat Eng 103:290 My 1 '25

Specifications

United States government specification for lubricants and liquid fuels and methods for testing. U S Bur Mines Tech Pa 323A:1-9 '24

Testing

Methods for testing lubricants and liquid fuels. diags U S Bur Mines Tech Pa 323A:30-89 '24

OIL bulk stations
Analyzes all possible sales; American refining co. puts in model bulk station at Houston. G: Triplett. Pet Age 13:54+ Je 1 '24
Builds big heating oil trade by serving customer's interest. W. K. Halbert. Nat Pet N 15:67+ D 5 '23
Fitting the bulk station to its job—standardizing on types. P. Truesdell. il diags Nat Pet N 15:35-8+ N 28 '23; 16:54-6+ Mr 5 '24
Neatness in this bulk plant; Johnson oil and refining co.'s layout near Danville. R. A. M. Anderson. il Pet Age 13:54+ Mr 15 '24
Practical accounting for service and bulk stations. Nat Pet N 16:35-6+ Ja 2 '24
Remote control of equipment feature of San Francisco bulk plant. il Nat Pet N 16:64 My 7 '24
Retailing from bulk plants. R. A. M. Anderson. il Pet Age 16:28+ Jl 1 '25
Small town marketer builds fuel trade for next year's profit. W. K. Halbert. il Nat Pet N 17:59-60+ Ja 7 '25

Safety devices and measures

Safety rules important for bulk station electric equipment. M. A. de Leu. Nat Pet N 17:76 Mr 25 '25

OIL bunkering stations
A.R.E.A. committee report on facilities for fuel oil for locomotives. diags Ry R 76: 499-504 Mr 14 '25
Bulk distribution of oil; depots and storage. F: W. Black. Inst Pet Tech J 10:596-603; Discussion. 604-5 Jl '24
Facilities for fuel oil for locomotives. diags Ry R 74:602-8 Mr 29 '24

OIL burner association, American. See American oil burner association

OIL burner industry
American association of oil burner manufacturers 2d annual convention, Chicago, April 1-3. Dom Eng 111:41+ Ap 11 '25
Bridging the gaps in the oil burner industry. Dom Eng 108:26+ Jl 12 '24
Domestic burner business growing factor oil concerns must study. W. K. Halbert. Nat Pet N 16:25-6 S 10 '24
Five years of oil burner sales and service. H. H. Newitt. Dom Eng 111:16-18 Je 6 '25
Jobber and the oil burners. H. O. Nelson. Dom Eng 109:20+ D 6 '24
More thoughts on oil burners. W. B. S. Whaley, jr. Dom Eng 110:20 Ja 3 '25
Nine hundred study oil burners; first national convention of the makers of the Oil-O-Matic oil burner, Bloomington, Ill., May 11-12. Dom Eng 111:33+ My 23 '25; Heat & Ven 22:80-1 Je '25
Problems of manufacturers of oil burners are many sided. E: P. Bailey. Nat Pet N 16: 63-4 D 24 '24; Same. Am Pet Inst Bul 5: 87-9; Discussion. 96-8 D 31 '24
Progress of the domestic oil burner. Dom Eng 113:23-4 O 24 '25
Selling and service work on home heating oil burners. W. C. Capen. Nat Pet N 16:73-4 D 24 '24; Abstract. Am Pet Inst Bul 5:90-6; Discussion. 96-8 D 31 '24
Selling and servicing oil burners. A. De Rosa. Dom Eng 109:27-9 N 1; 25-6 N 15 '24
Steering the oil burner straight; first annual convention of the American association of oil burner manufacturers. Dom Eng 107:41-2+ Ap 12 '24
This truck sells burners. J. B. Gray. il Pet Age 14:30 O 15 '24
Thoughts on the oil burner. A. G. King. Dom Eng 109:24+ D 13 '24
Truth about the oil burner market. il Dom Eng 106:17-20 Mr 29 '24
What is the matter with the oil burner industry? diags Dom Eng 111:19-22+ Ap 18 '25
What the oil burner and the oil industries can do for each other and for the public. E. P. Bailey; J. P. B. Fiske; G. I. Sweney. Am Pet Inst Bul 4:79-88 D 31 '23; Excerpts. Nat Pet N 15:21-2 D 12; 43+ D 26 '23
What they think of the oil burner; reports from groups of plumbing and heating men in seventy-five cities located in twenty-eight different states and provinces. map Dom Eng 110:17-21+ Mr 7 '25

See also American oil burner association

OIL burners
Analysis of oil flames. J. L. Breese, jr. Sanitary & Heat Eng 103:393-5, 442+ Je 12-26 '25; Same abr. Heat & Ven 22:54-6+ Je '25; Abstract. Power 61:749-50 My 12 '25
Best oil burner. diags Engineer 138:95 Jl 25 '24
Burning oil under power boilers. R. F. Burke. diags Power Pl Eng 28:328-30 Mr 15 '24
Combustion noise of domestic oil burners. A. Ruttiman. Heat & Ven 22:85 O '25
Domestic oil burning. L. B. French. Sanitary & Heat Eng 101:36-8 Ja 25 '24: Same. Sheet Metal Worker 15:10-11+ F 1 '24
Filma new oil fuel burner. il diag Engineer 140:304-5 S 18 '25
Heating the small residence with oil. C. F. Olmsted. Sheet Metal Worker 15:153-4+ Mr 28 '24; Same. Sanitary & Heat Eng 101: 133-5 Mr 7 '24
Kansas City oil men meet city's fuel needs as gas wanes. J. C. Chatfield. Nat Pet N 15: 51+ N 14 '23
Kerrihard oil burner. il diag Sanitary & Heat Eng 100:392 D 14 '23
List of approved oil burners. Heat & Ven 21: 74; 22:91 Je '24, Je '25
Measuring oil burner steam consumption. F. A. Rothwell. diags Power Pl Eng 28:175-6 F 1 '24
Mechanical atomization of fuel oil. C. C. Brown. diags Power Pl Eng 27:1130-2, 1192-4, 1238-41 N 15-D 15 '23
Non-clogging vacuum oil burner. il diag Ry Mech Eng 98:501-2 Ag '24
Novel domestic oil burner developed in Canada. diag Heat & Ven 22:89 Ag '25
Oil-burner essentials. W. T. Dean. il diags Dom Eng 109:21-4 O 11; 33-6+ N 29 '24
Oil burners and burning oil. il Sheet Metal Worker 14:958-9+ Ja 4 '24
Organization of the Williams institute of heat research to study oil burning problems. Heat & Ven 21:74 Je '24
Peabody combined gas and oil burner. il diag Power 61:155 Ja 27 '25; Power Pl Eng 29: 364 Mr 15 '25
Practical pointers on the lighting of cold furnaces, oil and gas. M. H. Mawhinney. Brass W 20:286-7 Ag '24
Present accepted practice in domestic oil burners. il diag Heat & Ven 22:100-2 Jl; 103-4 Ag; 108-9 S; 90-3 O '25
Pulverized coal as marine fuel, Peabody engineering corporation develops combination burner for oil and pulverized coal. il Marine Eng 30:580-1 O '25
Quinn P G S refinery oil burner. diag Chem & Met Eng 30:280 F 18 '24: Power Pl Eng 28:410-11 Ap 1 '24
Safe oil burners for residences. Heat & Ven 22:85-6 Mr '25
Simplifying oil burner problems. Sanitary & Heat Eng 103:362-3 My 29 '25
Step ahead in oil burning. Dom Eng 105:582-3 D 22 '23
29 oil burners are now listed by Underwriters laboratory. W. K. Halbert. Nat Pet N 17:92+ S 16 '25
Types of fuel oil burners for household use. diags Heat & Ven 19:53-4 O; 60-1 N; 72-3 D '22; 20:61-2 Ag; 66-7 S; 69 O '23; 21: 95-6 F '24
Various types of domestic oil burners and how they operate. W. J. Ottinger. Nat Pet N 16:67-8+ Ja 23 '24

Control
Clock thermostats and oil burners. H. W. Sweatt. Heat & Ven 22:92-3 S '25
Making oil burners safe. H. W. Sweatt. Dom Eng 108:31+ Ag 2 '24; Abstract. Heat & Ven 21:59-61 My '24
Superior oil burner with automatic control. il diag Power 62:543 O 6 '25
Valve shuts off oil if atomizing pressure falls. diags Power Pl Eng 28:163 Ja 15 '24

Electric equipment
Residential fuel oil burners make desirable load. B. J. George. Elec W 85:1271-3 Je 13 '25

OIL burning equipment
Burning liquid and gaseous fuels; experience with burners, furnace design and air preheaters reported by the Prime movers committee of the N. E. L. A. diag Power Pl Eng 28:586-7 Je 1 '24
Correct and incorrect use of fuel oil. H. A. Anderson. il diags Ry Mech Eng 98:169-74 Mr '24; Same cond. Foundry 52:29-30 Ja 1 '24; Same cond. Iron Age 113:518-19 F 14 '24
Cost of atomizing fuel oil. C. Tyler. Chem & Met Eng 32:323 F 23 '25; Same cond. Power 61:367 Mr 10 '25
Efficiency in oil burning installations. F. A. Rothwell. diags Power Pl Eng 28:526-8, 639-41 My 15, Je 15 '24; Discussion. J. Morris. 28:665 Je 15 '24
Failure of oil fuel details. F. J. Drover. Cassier's Ind Management 12:202+ Mr '25
Fuel-oil burning in the United States navy. H. G. Donald. Mech Eng 46:769-70 pt 2 N '24
Fuel oil in New York office and mercantile buildings. A. W. Coyle. il diags Heat & Ven 22:84+ Ap '25
Furnace installation for heating nickel. G: Ellerton, jr. il Iron Age 114:1595-7 D 18 '24
Handling fuel oil aboardship. J. Hecking. diags Marine Eng 29:423-6 Jl '24
Heating troubles. H. R. Linn. Dom Eng 111: 35 Ap 18 '25

OIL burning equipment—*Continued*
Low-pressure oil burner for industrial use. il Iron Age 115:478 F 12 '25
Maintaining the level in a fuel oil tank. E. S. James. diags Dom Eng 112:24 Jl 25 '25
Minneapolis recycling motor program switch. il Heat & Ven 22:98-9 Ap '25
Oil burners for small plants. W. F. Schaphorst. diag Power Pl Eng 28:1212 D 1 '24
Oil burning and oil-burning equipment in industrial and chemical plants. W. F. Schaphorst. il diags Ind & Eng Chem 17:5-10 Ja '25
Oil burning; correct installation of oil-storage tanks. Heat & Ven 22:85-7 Jl '25
Oil-burning developments; portable equipment and its many uses. C. F. Olmstead. Iron Age 113:1762 Je 12 '24
Oil burning equipment for shop furnaces. M. H. Mawhinney. Ry R 77:809-11 N 28 '25; Abstract. Iron Age 116:808-9 S 24 '25
Oil burning in industrial-plant and central-station service. N. E. Lewis. diag Mech Eng 46:849-51 pt 2 N '24; Abstract. Power Pl Eng 29:136-7 Ja 15 '25
Oil burning installations. C. C. Pounder. 366p Emmott and co., ltd., Manchester, London '24
Oil fuel for domestic purposes. C: L. Hubbard. il diags Bldg Age 46:102-3 Ap '24
Power plant management; efficient utilization of fuel oil. R. June. il Concrete 24:sup25-7 F '24; Same. Gas Age 53:157-9 F 9 '24; Same. Blast F & Steel Pl 12:210-13 Ap '24
Present accepted practice in domestic oil burners. il diag Heat & Ven 22:92-4 N '25
Simplifying oil burner problems. Sanitary & Heat Eng 103:362-3 My 29 '25
Six "be sure" points about oil burners. H. E. Linn. Dom Eng 107:29-31 My 3 '24
Some phases of using oil burners with warm-air furnaces. B. K. Eaton. Sheet Metal Worker 15:646+ S 12 '24
Storage and handling of fuel oil in industrial plants. C. G. Sheffield and H. H. Fleming. Mech Eng 46:771-3 pt 2 N '24; Same. Pet Age 15:21+ Ja 1 '25; Same, without tables. Iron Tr R 75:1497-9 D 4 '25; Abstract. Power Pl Eng 28:1248-9 D 15 '24; Discussion. Mech Eng 47:272-4 Ap '25
Wallsend-Howden oil-fuel burning apparatus; Empire exhibition. il diags Engineering 118: 345-7 S 5 '24
What experience teaches about oil burning. H. A. Call. Sanitary & Heat Eng 101:371-4+ Je 13 '24; Same. Sheet Metal Worker 15:497-500 Jl 18 '24
What you want to know about oil as a fuel in rubber plants. W. F. Schaphorst. il Rubber Age 16:79-83; Discussion. W: H. Larkin, jr. 83-7 N 10 '24

See also Oil pipes

Advertising

When dealers shoulder the manufacturer's burden. B. A. Grimes. Ptr Ink 132:49-50+ Ag 20 '25

Fires and fire protection

Domestic oil burning and the necessity for its control. H. E. Newell. Safety Eng 49: 53-6 F '25
Foolproof and fireproof. il Dom Eng 108:25-7+ S 13 '24
Hazards of industrial oil burning. H. E. Newell. Mech Eng 46:765-8 pt 2 N '24; Abstracts. Power Pl Eng 28:1249 D 15 '24; Power 60: 927-8 D 9 '24; Discussion. Mech Eng 47:281 Ap '25
Oil burner hazards; a compilation of fire records caused by defective domestic oil burning equipment. il Sanitary & Heat Eng 101:384-6 Je 13 '24
Safe-guarding domestic oil burners. C. R. Welborn. diags Sanitary & Heat Eng 102: 46-8+ Jl 25 '24
Safety in oil burners. H. L. Paget. il diags Dom Eng 113:21-2+ O 3 '25

See also Oil tanks—Fire protection

Laws and regulations

Heating the small residence with oil. C. F. Olmsted. Sanitary & Heat Eng 101:203-4 Ap 4 '24; Same. Sheet Metal Worker 15:197-8+ Ap 11 '24
Making oil burning safe. Sanitary & Heat Eng 104:46-7+, 71+ Jl 24-Ag 7 '25
New Underwriters' regulations for constuction and use of oil-burning equipment. Heat & Ven 22:83-4+ Je '25
Oil burner code revised. Sheet Metal Worker 16:480 Jl 31 '25
Oil burners for residential property. A. C. Carruthers. diags Safety Eng 47:60-4, 138-41 F-Mr '24
Punitive insurance rate urged for poor oil burners. I. Escott. Nat Pet N 16:30B D 10 '24
Rules governing oil burner installations in New York city. Sanitary & Heat Eng 101: 111+, 171-2, 242-3+, 309-10 F 22, Mr 21, Ap 18, My 16 '24; Same cond. Heat & Ven 21: 67-71 Mr '24
St Louis adopts oil burning ordinance. Nat Safety N 12:42 Jl '25
What oil burner and oil heating industries can do for each other and the public. J. P. B. Fiske. Am Pet Inst Bul 4:79-88 D 31 '23; Excerpts. Nat Pet N 15:43+ D 26 '23

Testing

Heating the small residence with oil. C. F. Olmsted. il diags Sanitary & Heat Eng 101: 275-6, 340-3; 102:13-15, 81-2, 149-51, 225-7 My 2, 30, Jl 11, Ag 8, S 5, O 3 '24
Some hot spots in the oil burner industry. C. H. Chalmers. Dom Eng 107:20-3 My 31 '24
Testing oil burners for safety. H. L. Pagett. il Dom Eng 111:28-31+ Je 13 '25
Underwriters' laboratories work on oil burners. Nat Pet N 17:92-3 F 25 '25

OIL circuit breaker. See Electric circuit breakers

OIL companies
Company organized to operate entire Oklahoma field as unit. A. F. Hinton. Nat Pet N 17:40h O 28 '25
Ohio company makes home heating work a real dress suit affair. R. B. Stafford. Nat Pet N 16:77-8 N 5 '24

See also Gasoline service stations; Oil promoters; *also* Burmah oil company; Pan-American western petroleum company; Pure oil company, Columbus, Ohio; Skelly oil company; Standard oil company; Texas company; World oil company

Accounting

Practical accounting for service and bulk stations. Nat Pet N 16:35-6+ Ja 2; 37:7-8+ Ja 16; 68-9+ F 13 '24

Employees

How Empire companies promote better relations among employes. Nat Pet N 16:99+ Ag 6 '24
Industrial education is main theme at A.O. M.A. convention. W. K. Halbert. Nat Pet N 17:29-30 O 28 '25

Finance

Hope in financial reports. R. R. Moore. Pet Age 14:15+ Ag 15 '24
Illinois farmers offer oil dividends to recruit Farm bureau members. W. K. Halbert. Nat Pet N 16:115+ N 26 '24
Mutual and Continental to merge; Sapulpa may be taken in. Nat Pet N 15:17-18 N 21 '23

See also Shell union oil corporation

Management

Fuel oil dealers war against losses of time and material. W. K. Halbert. Nat Pet N 16: 83-4+ D 10 '24
Oil companies show saving by carrying own liability risk. J. C. Chatfield. Nat Pet N 16: 21-2 Mr 19 '24
Small town marketer builds fuel trade for next year's profit. W. K. Halbert. il Nat Pet N 17:59-60+ Ja 7 '25

OIL companies—*Continued*

Records

Car board keeps tank cars on move; assures plant supply. J. C. Chatfield. il Nat Pet N 16:22-3 Ja 30 '24

Securities

Ceiling for oil stocks. Moody's Inv Serv 16: 238 Je 12 '24

Industrial and oil securities. Published in weekly numbers of Oil paint and drug reporter

Oil refining stocks. Moody's Inv Serv 17:325-8, 331 O 1-8 '25

Valuation of property

Appraisal of oil and gas properties. R. H. Johnson and P. Ruedemann. Nat Pet N 16: 55-7+ Ag 6; 68+ Ag 13; 69+ Ag 20; 63+ Ag 27; 73+ S 3; 75+ S 10; 83+ S 17; 80+ S 24; 89-90+ O 15; 63-4+ O 22; 67+ O 29; 81-2 N 5; 113+ N 12; 91-2 N 19; 68+ D 10; 89-90+ D 17 '24; 17:85-6+ Ja 28; 75-6 F 18; 101+ Ap 15 '25

Estimation of underground oil reserves by oil-well production curves. W. W. Cutler, jr. il charts [bibliog. p. 110-11] U S Bur Mines Bul 228:1-114 '24

Tax valuation on oil in West Virginia compared with other property. J. P. Flynn. Nat Pet N 16:68 O 1 '24

Valuation of oil properties for all purposes. J. L. Darnell. Am Pet Inst Bul 5:146-50 D 31 '24

See also Oil lands—Valuation

OIL conservation board, Federal. See Federal oil conservation board

OIL coolers

Cooling medium for turbine oil cooler. Power 61:797; 62:64 My 19, Jl 14 '25

Improvised oil cooling systems. R. A. Cultra. diags Power 61:308 F 24 '25

Moore-Burmah continuous oil chiller. il Chem & Met Eng 31:234 Ag 11 '24; Soc Chem Ind J (Chem & Ind) 43:1095-6 O 31 '24

OIL dehydration. See Dehydration; Petroleum—Dehydration

OIL engines. See Diesel engines; Gas and oil engines

OIL filters

Carriage for oil filter press proves labor saver. il diags J Elec 55:58-9 Jl 15 '25

Decolorizing mineral oils; patent. diag Chem & Met Eng 31:432 S 15 '24

Filtering transformer oil in the field. F. C. DeWeese. Power 60:1016-17 D 23 '24

Find pressure helps in filtering lubes and washing filters. P. Truesdell. diags Nat Pet N 17:73-4+ Ag 5 '25

Lubricating-oil filtration system. il Power 61: 947 Je 16 '25

New device designed to remove water, gas and dirt from lubricating oil. diag Automotive Ind 51:1052-3 D 18 '24

Stream-line filter for lubricating oil. il diag Engineer 140:348 O 2 '25; Engineering 120: 414-15 O 2 '25

OIL fires

Boilovers seldom occur in oil tank fires except where crude oil burns. H. H. Hall. il diags Nat Pet N 17:66-7+ Je 10; 127-8+ Je 24 '25; Same abr. Mech Eng 47:540-4 Jl '25

Broken valve on air compressor causes fire in power plant. Power 61:465, 704, 842, 881; 62:63, 105-6 Mr 24, My 5, 26-Je 2, Jl 14-21 '25

Danger of gasoline in vapor form. il Safety Eng 46:265-7 D '23

Fire hazards of fuel oil. G. B. Vroom. Marine Eng 30:279-80 My '25

Fire in Venezuela oil field causes loss and delays development. P. Wagner. Nat Pet N 17:21-2 Jl 1 '25

Fire prevention in oil properties. F. A. Epps. Safety Eng 48:240-3+; 49:74-6, 221-3 D '24, F, My '25; Excerpts. Nat Pet N 16:32-b O 8 '24

Fire problems in the oilfields and refineries. G. Cotton. Inst Pet Tech J 11:86-8 F '25

Fire record of oil industry shows hazards are being eliminated. P. Wagner. Nat Pet N 17: 101-2 O 14 '25

Fuel oil furnace fire. Ry R 77:8 Jl 4 '25

Hazards of industrial oil burning. H. E. Newell. Mech Eng 46:765-8 pt 2 N '24; Discussion. 47:281 Ap '25

Inflammable liquids committee discusses fire protection regulations. W. C. Platt. Nat Pet N 17:101+ Mr 25 '25

Investigating oil tank fires. Safety Eng 49: 129-30 Mr '25

Manual for oil and gas operations. T. E. Swigart and C. E. Beecher. U S Bur Mines Bul 232:131-8 '23

Marketers should see local chiefs know how to fight oil fires. R. B. Stafford. il Nat Pet N 17:55-7+ O 7 '25

Progress in fire-protection; National fire protection association discusses oil tank dangers, safety to life and pier protection. Eng N 92:946-7 My 29 '24

Report on records of oil tank fires in the United States, 1915-1925 with conclusions drawn therefrom. 41p American petroleum institute, 250 Park ave., New York '25

Texaco gasoline tank barge explodes on Chicago waterway. W. K. Halbert. Nat Pet N 17:23-4 Jl 29 '25

See also Oil burning equipment—Fires and fire protection; Oil tanks—Fire protection; Petroleum refineries—Fires and fire protection

OIL flow

New theory of fluid flow. A. B. Cox. J Fr Inst 198:769-93 [bibliog. p. 792-3] D '24

OIL gages

Practical solution of some shipboard problems. C. C. McMillan. il diags Marine Eng 29:556-8 S '24

OIL gas. See Gas, Oil

OIL gear system. See Hydraulic transmission

OIL grooving machines

Cutting figure eight oil-grooves. C. J. Weingartner. diags Mach 31:305 D '24

Cutting internal oil-grooves. F. M. Weston, jr. diags Mach 31:113-14 O '24

Driving box oil grooving device. diag Ry Mech Eng 99:302 My '25

Tool for cutting oil grooves in crown brasses. P. A. Bard. il diags Am Mach 61:73-4 Jl 10 '24

Wicaco oil-groover. il Mach 31:153-4 O '24

OIL handling

Control of oil pollution in Rhode Island. S. D. Gage. il map Boston Soc C E J 11:237-74; Discussion. 274-80 Je '24

Handling and storing oil and gasoline. il Management & Adm 9:134 F '25

Handling oil in the small power plant. E. S. Stearns. il Power 61:464 Mr 24 '25

Handling transil oil. D. R. Dalzell. Elec W 86:854-5 O 24 '25

Insulating oils; some factors to be observed in handling. H. Seymour. Electrician 92:427 Ap 4 '24

Oil storage and handling practice. il Elec Ry J 64:77-9 Jl 19 '24

Packing and shipping oil and lubricants; methods in use at the Tide Water oil company. J. B. Edwards. il Management & Adm 8:59-64 Jl '24

Tankage installation holds all gas from well to pipe line. L. E. Smith. il Nat Pet N 16: 58+ Jl 9 '24

See also Asphalt handling; Gasoline handling; Gasoline service stations; Oil bulk stations; Oil bunkering stations; Oil burning equipment; Oil pipe lines; Oil storage; Tank cars; Tank ships

OIL heaters

Hynes & Cox electric oil heater. il Elec Ry J 66:410 S 12 '25

See also Oil stoves

OIL industries
Co-ordination of production with sales for oil companies. E. G. Reynolds. Management & Adm 7:85-9 Ja '24
Higher prices for vegetable oils, 1924. Chem & Met Eng 32:126-7 Ja 19 '25
Oilseed crushing industry. Economist 101:407-8 S 12 '25
Report of N.P.O. & V.A. committee on simplification. Oil Paint & Drug Rep 108:67-8 N 5 '25
Vegetable oil production in Europe. Economist 98:905-6 My 3 '24
What's wrong with oil? A. Stote. Ptr Ink 127:101-2+ Je 19 '24

See also Coconut oil; Core oils; Cottonseed oil; Dodge Brothers' motor oil; Fish oil; Gasoline industry; Gasoline service stations; Kerosene; Linseed oil; Oil bulk stations; Oil companies; Oil jobbers' associations; Olive oil; Petroleum industry and trade; Tariff—United States—Oils and fats; *also* Pacific oil company; Standard oil company

Statistics

Fats, oils, and raw materials; index numbers and numerical data. Survey of Cur Business 30:120-5 F '24 [continued quarterly]
Report on miscellaneous oils. Oil Paint & Drug Rep 106:52-3 O 29 '24
World trade in vegetable oils and animal fats. J. E. Wrenn. U S Bur For & Dom Com misc ser 123:1-214 '23

France

Vegetable oil industry of France. C. L. Jones and W. Frost. U S Bur For & Dom Com Trade Information Bul 322:1-21 '25

Great Britain

British vegetable oils trade in 1924. Oil Paint & Drug Rep 107:70 Mr 26 '25
Oils, fats, waxes, and resins. E: R. Bolton and R. G. Pelly. 275p E. Benn, ltd., London; Van Nostrand, N.Y. '24

OIL jobbers' associations

See also Wisconsin independent oil jobbers

Secretaries

Professional secretaries successful in oil association work. W. K. Halbert. Nat Pet N 16:61-2+ Ag 6 '24

OIL lands
Bonuses paid for Urania leases exceed $140,000. Nat Pet N 17:48 Ap 15 '25
Community leases offer advantages to operating companies. J: L. Church. Nat Pet N 16:55 O 8 '24
Fifteen Burbank tracts at next sale; strenuous sessions in sight. A. F. Hinton. Nat Pet N 16:27-8+ F 6 '24
Lawless squatters handicap oil work; court orders them to move. L. E. Smith. Nat Pet N 17:101-2 Ap 1 '25
Legal status of oil rights on state lands in Texas is discussed. Nat Pet N 16:133+ N 26 '24
New plan community lease will aid in cheaper oil recovery. T. R. Ingram. Nat Pet N 16:77+ My 7 '24
Osage mill end sale not a success. L. E. Smith. Nat Pet N 16:39-40 Jl 2 '24
Osage sale breaks records for speed and number of tracts passed. A. F. Hinton. Nat Pet N 16:39-40 D 24 '24
Osage sale brings less than million; 351 tracts offered, 271 passed. A. F. Hinton. Nat Pet N 17:40-1 Mr 25 '25
Osage sale to be held Dec. 18; list six Burbank tracts. Nat Pet N 16:51 N 19 '24
Smoothly-working machine is needed in handling oil and gas leases. J. E. Pew. Nat Pet N 16:69+ Ap 23 '24
Uncle Sam qualifies as operator of oil lease; Red River property. L. E. Smith. il Nat Pet N 17:56+ O 28 '25
Unit operation of leases advocated. J: H. Hammond. Nat Pet N 17:22-3 Ap 8 '25
University permits in Reagan county, how validated into leaseholds. P. Wagner. Nat Pet N 16:61-2 S 24 '24

See also Gas, Natural; Oil reserves (United States navy); Petroleum laws and regulations

Valuation

System worked out in California for taxing oil lands. W. R. Guiberson. Nat Pet N 17:83-4 O 14 '25
Valuation of oil and gas lands. R. W. Brown. 215p McGraw-Hill '24

OIL lands, Government
What the government does with its oil royalties. F. B. Tough. Nat Pet N 16:85 O 1 '24

OIL leases. See Oil lands

OIL leases, Naval. See Oil reserves (United States navy)

OIL lighting
Report of sub-committee XIX on illuminating oils. Am Soc T M Pro 24 pt 1:559-62 '24

OIL measurement
Method of strapping stills and horizontal tanks. H. L. Minister. Nat Pet N 16:87+ My 14 '24

See also Oil gages

OIL migration. See Petroleum—Geology

OIL pipe lines
Acetylene distribution on welded pipe line in Texas. G. O. Carter. il Eng N 94:738-9 Ap 30 '25

See also Gasoline pipe lines; Petroleum pipe lines

OIL pollution of rivers and harbors
Build barge to separate oil from ballast. il Marine R 54:297 Jl '24
Control of oil pollution in Rhode Island. S. D. Gage. il map Boston Soc C E J 11:237-74; Discussion. 274-80 Je '24
Oil pollution of coastal waters. Engineering 119:140 Ja 30 '25
Pollution by oil of the coast waters of the United States. E. W. Lane, C. P. Bowie and J. S. Desmond. U S Bur Mines Rep of Invest 2658:1-14 D '24
Todd oil separator stops oil pollution of harbors. il Pet Age 14:64+ Jl 15 '24

OIL presses
Anderson oil expeller. diags Engineer 138:37 Jl 11 '24

OIL promoters
Promoters play on Union and Standard company names in Colorado. P. Wagner. Nat Pet N 16:91+ My 28 '24
Protection of the good will of the oil industry. L. E. Holland. Am Pet Inst Bul 4:21-3 D 31 '23

OIL properties. See Oil companies; Oil lands; Petroleum; Petroleum industry and trade; Petroleum refineries

OIL pumps
Automatic fuel-oil pumping system for Diesel plants. G: Grow. diag Power 61:384 Mr 10 '25
Automatic stop for an oil pump. G: G. McVicker. diag Am Mach 62:937 Je 11 '25
For vending grease and oil. il Sci Am 130:40 Ja '24
Horizontal duplex cargo oil pump. il diags Engineering 116:739 D 14 '23
Illmer oil-engine injection pump. diag Power 61:471 Mr 24 '25
Leakage prevented in gear oil pump. G. A. Luers. diag Power Pl Eng 28:716 Jl 1 '24
Performance of centrifugal pumps when pumping oils. R. L. Daugherty. Mech Eng 47:297 Ap '25
Pumps suitable for use with domestic oil burners. J. H. Haberly. Sanitary & Heat Eng 101:308-9 My 16 '24
Screw oil pump. R. H. Pearsall. diags Automobile Eng 14:145-7 My '24
Superior oil pump. il Pet Age 14:55+ Jl 15 '24

OIL pumps—*Continued*
Vertical duplex oil-fuel pump. il diags Engineering 118:856 D 26 '24

See also Gasoline pumps; Petroleum—Pumping

OIL purification
Centrifugal separation. L. D. Jones. Chem & Met Eng 29:883-4 N 12 '23
Centrifugal treatment of Diesel fuel oil. L. H. Clark. il Marine Eng 30:301-2 My '25
Clean fuel oil improves Diesel operation. il diag Power Pl Eng 29:484-6 My 1 '25
How Windsor station forestalls generator and lubrication troubles. il Power 58:1030-1 D 25 '23
Methods for applying lubricants. diags Power Pl Eng 28:560-2 My 15 '24
New centrifugal oil purifier; Empson all-British machine. il diags Elec R (Lond) 94: 174-5 F 1 '24
Oil purification and testing; two interesting instruments. il diags Electrician 92:101-2 Ja 25 '24
Oil-purification plant on wheels. A. H. Nicholson. il Elec W 86:567 S 19 '25
Oil system specially designed for municipal pumping plant. H. R. Cady. il diags Power 60:203-5 Ag 5 '24
Operation of Diesel engines. R. Hildebrand. il Power 61:339-40 Mr 3 '25
Purification of turbine oil; the Bowser continuous by-pass system. il diags plan Elec R (Lond) 94:772 My 9 '24
Purifying circuit breaker oil. L. H. Clark. il diags Elec W 86:562-5 S 19 '25
Use clean fuel in oil engines. L. H. Clark. il Marine R 55:291-3 Ag '25

See also Oil filters; Oil reclamation; Oil refining; Petroleum refining

OIL reclamation
Are reclaimed oils menace? R. B. Day. Pet Age 16:20-1 N 1 '25
Die behandlung mit fullererde, eine einfache methode zur reinigung gebrauchter öle. Dr v. d. Heyden and Dr Typke. Elektrotech Zeit 46:1518-20 O 1 '25
Cleansing waste and separating oil. R. W. Bailey. il diag Elec Ry J 66:439-41 S 19 '25
Crankcase oil rectified by use of exhaust heat. il Bus Transportation 3:475-6 O '24
Curtis motor-driven oil extractor. il Am Mach 60:269 F 14 '24; Automotive Ind 50:524 F 28 '24; Ry Mech Eng 99:66 Ja '25
Deterioration and reclamation of used automobile crank-case oil. A. E. Flowers, F. H. McBerty, and R. Reamer. il Ind & Eng Chem 17:481-5 [bibliog. p. 484-5] My '25
General Electric men perfect apparatus to reclaim crankcase oil. il Automotive Ind 52: 741 Ap 23 '25; Pet Age 15:29 Ap 15 '25
Oil and grease extraction from exhaust steam. Power Pl Eng 29:405, 558 Ap 1, My 15 '25
Oil extraction and chip disposal. il Am Mach 62:920-1 Je 11 '25
Oil reclamation as you go. il Bus Transportation 3:373 Ag '24
Old crankcase oil sold for fuel by most oil companies. R. B. Stafford. Nat Pet N 16:49+ Mr 5 '24
Outfit to reclaim crankcase oil. il Bus Transportation 2:582-3 D '23
Reclaimed motor oil better than new. Sci Am 133:125 Ag '25
Reclaiming oil from vapor in turbine bearings. J. F. White. diag Power 58:777-8 N 13 '23
Reclaiming used lubricating oils. Bus Transportation 4:341-3 Jl '25
Reclamation of automobile crank-case oil. C: Van Brunt and P. S. Miller. il diag Ind & Eng Chem 17:416-23 Ap '25
Reclamation of car journal packing. G. C: Hoey. il diags Ry Mech Eng 99:219-21 Ap '25
Reclamation of lubricating oil from used crank-case oil. F. H. Rhodes and H. J. Haon, jr. Ind & Eng Chem 17:25-7 Ja '25
Rectification of diluted crankcase-oil. R. L. Skinner. il diags Soc Auto Eng J 15:51-9 Jl '24; Abstract. Automotive Ind 50:1365-7 Je 26 '24
Rickenbacker incorporates Skinner oil rectifier in all new models. il Automotive Ind 50: 1086-7 My 15 '24
Standardization of textile mill lubrication. A. F. Brewer. il diag Textile World 67:1673+ Mr 7 '25
Waste oil recovery plants idle; crank case drainings burned. Nat Pet N 16:54+ Mr 19 '24

See also Dehydration; Oil purification; Oil separators

OIL refineries
Oil refinery refrigeration. C. H. Herter. Refrig W 59:13-16 Mr '24

See also Petroleum refineries

OIL refining
Action of fuller's earth on vegetable oils. D: Wesson. Am Inst Chem Eng Trans v 15 pt 1:361-6 '23
Bleaching of animal and vegetable oils and fats. B. Hassel. Chem Age (Lond) 13:346-7 O 3 '25
Colloid chemistry in the technology of oils and fats. N. G. Chatterji. Chem Age (Lond) 10:56-8 Ja 19 '24
Modern methods in vegetable oil refining. Schwarcman. Can Chem & Met 9:93-4 Ap '25
Oilmen's sundries, how to make them. 2d ed., rev. & enl. 128p Van Nostrand '23
Purification of oils. W. W. Myddleton. Chem Age (Lond) 10:186-7 F 23 '24
Refining and recovery of petroleum products with silica gel. E. B. Miller. flow sheet il diags plan Am Inst Chem Eng Trans v 15 pt 1:241-82 '23

See also Coconut oil; Cottonseed oil; Oil filters; Oil reclamation; Petroleum refining

OIL reserves (United States navy)
Into Alaska's wilds for oil. Pet Age 13:16+ F 1 '24
Naval oil shale reserves. H. H. Rousseau. Min Cong J 11:106-8 Mr '25
Navy oil leases; their history and terms and the operations under them. Index p 12-16 F '24; Same. Econ W n s 27:295-7 Mr 1 '24
Need of legislative changes to insure dependable supply of oil. H: L. Doherty. Comm & Fin Chr 119:2375-6 N 22 '24
Oil conservation. Index p 3-6 Je '24
Report on Teapot Dome naval reserve no. 3, Natrona county, Wyoming. F: G. Clapp. diags Nat Pet N 16:69-74+ Mr 26 '24
Story of Teapot dome. M. E. Ravage. 198p Republic pub. co., New York '24
Survey men return from difficult trip into Alaskan naval reserve. A. E. Heiss. il Nat Pet N 17:67-8+ Ja 21 '25
Teapot Dome; some physical facts in the naval oil reserve problem. il Sci Am 130: 224-5 Ap '24
Truth of the oil scandals. F. R. Marvin. Manuf Rec 87:67-9 Ap 16 '25
Warns against oil wasting. G: O. Smith. Power 59:928-9 Je 3 '24

Lease Investigation
Indictments against Albert B. Fall, Harry F. Sinclair and Dohenys returned by Federal Grand jury in Washington in oil investigation. Comm & Fin Chr 119:36 Jl 5 '24
Leases upon naval oil reserves. (68th Cong., 1st sess. Senate. Rept. 794) 36p Govt. ptg. off., Washington, D.C. '24
Naval oil lease report scores Fall and assails legality of transactions. Oil Paint & Drug Rep 105:19+ Je 9 '24
Navy's need for storage brought out in oil reserve inquiry. A. E. Heiss. Nat Pet N 15:29-30 D 5 '23
Politics principal factor in report on naval reserve leases. Nat Pet N 16:20-3 Je 11 '24
Senate adopts Walsh majority report on naval reserve leases. A. E. Heiss. Nat Pet N 17: 21-2 Ja 28 '25
Senate committee report on Teapot Dome oil inquiry; statement of E. L. Doheny's counsel on the Walsh oil report. Comm & Fin Chr 118:2786-7 Je 7 '24

OIL reserves (United States navy)—Lease investigation—*Continued*
Senate investigation into naval reserve oil land leases to private interests. Comm & Fin Chr 118:510-12, 624-5, 747-9, 865-6, 960-4, 1096-7, 1222-4, 1346-55, 1482-9, 1616-17, 1737-40, 1867-8, 1999, 2135-9, 2393-4 F 2-My 3, 17 '24
Some facts about Teapot Dome. H. A. Wheeler. il Eng & Min J 117:480-2 Mr 22 '24
Some facts about the naval oil leases. P. Wooton. maps Power 59:668-71 Ap 29 '24
Teapot Dome investigation. Nat Pet N 16: 24-31 Ja 30; 23-4 F 13; 23 F 20 '24

Lease trials

Cheyenne court denies government petition for reopening of lease proceedings. Comm & Fin Chr 121:156-7 Jl 11 '25
Continental trading co. bond story causes fireworks in Teapot trial. L. E. Smith. Nat Pet N 17:38-41 Mr 18; 22-5 Mr 25; 39-40 Ap 1 '25
Government rests case against Doheny; defense now on stand. Nat Pet N 16:29-30 N 5 '24
Government wins suit to cancel lease on Elk Hills given to Doheny. L. E. Smith. Nat Pet N 17:17-19 Je 3 '25
Naval reserve lease trial nears end; arguments nearly finished. Nat Pet N 16:37+ N 19 '24
New indictments found against A. B. Fall, E. L. Doheny and H. F. Sinclair in government oil suits; Elk Hills and Hawaiian leases ordered cancelled. Comm & Fin Chr 120:2765 My 30 '25
Trial of suit to cancel Elk Hills leases, starts on Coast. Nat Pet N 16:29-30 O 29 '24
United States asks French courts to examine witnesses in Teapot Dome case. Comm & Fin Chr 120:1047-8 F 28 '25
United States government oil suit opens at Los Angeles, Calif., against Doheny interests. Comm & Fin Chr 119:2024-5 N 1 '24
Wyoming court holds Teapot Dome lease legal, no fraud involved. L. E. Smith. Nat Pet N 17:33-4 Je 24 '25

OIL-RING bearings. See Bearings

OIL royalties. See Oil lands, Government

OIL sampling
Sampling China wood oil. C: V. Bacon. Chem Age 32:86 F '24; Same. Chem Age (Lond) 10:13 Ja 5 '24

OIL separators
Der Alfa-Laval-ölreinigungs-separator. A. Fischer. il diag Elektrotech Zeit 46:95-7 Ja 15 '25
Conclusions on effect of vacuum on oil and gas separators. J. H. Wiggins. il diag Nat Pet N 16:61-2 Ja 30 '24
Conduit type oil separator. diag Marine Eng 29:491 Ag '24
Design oil separator for use on ship. il diag Marine R 54:357-8 S '24
Drayton oil separator. diag Chem Age (Lond) 12:105 Ja 31 '25
New oil separator demonstrated at Baltimore. Marine Eng 30:91 F '25
Oil purification and testing; two interesting instruments. il diags Electrician 92:101-2 Ja 25 '24
Oil separator for purifying ballast water discharged from ship fuel-oil tanks. W. J. Barnes. il diag Mech Eng 47:645-7 Ag '25
Oil separators. H. Barringer. Inst Pet Tech J 10:653-5 S '24
Pirbright oil separator. il diag Chem Age (Lond) 12:307 Mr 28 '25
Purification of feed water containing oil. C. E. Joos. Power Pl Eng 28:1244-7 D 15 '24
Removal of oil from condensate. A. E. Walden. Power Pl Eng 28:594-5 Je 1 '24
Removing oil from exhaust steam. A. G. Solomon. diag Power Pl Eng 28:814-15 Ag 1 '24
Test British type of oil separator. il Marine R 54:512 D '24
Using a suitable separator. W. H. Wakeman. diag Power 59:26 Ja 1 '24

See also Dehydration; Oil filters; Oil reclamation

OIL shales
Adoption of gas producer practice to the retorting of oil shales. F. G. Green. Can Chem & Met 9:185-6 Ag '25
American progress in retorting oil shale; Catlin and Brown retorts. S. D. Kirkpatrick. Chem & Met Eng 31:770-5 N 17 '24
California company finds a source of petroleum in oil-impregnated diatomite. il Chem & Met Eng 32:324 F 23 '25
Decolorizing carbon from oil shale; patent. Chem Age 32:99 F '24
Destructive distillation of oil shale. R. J. G. Stewart and J: Trenchard. il diag (Quarterly v. 18, no. 3) 32p Colorado school of mines, Golden, Col. Jl '23
Development of a standard Canadian laboratory distillation method for examination of oil shale. R. E. Gilmore and A. A. Swinnerton. diags Can Chem & Met 9:215-17, 235-9 O-N '25
Economic possibilities of oil-shales and lignites. A. Worsley. Chem Age (Lond) 12:225 Mr 7 '25
Economic problems in oil-shale development. S. D. Kirkpatrick. Chem & Met Eng 31: 651-5 O 27 '24
Extraction of oil from shale; cost tables. G. W. Wallace. il Chem Age (Lond) 9:624-7 D 8 '23
Fractional eduction of oil from oil shale. M. J. Gavin and L. C. Karrick. diags U S Bur Mines Rep of Invest 2588:1-10 Mr '24 (typew)
Fundamentals of shale. D. D. Potter. Min Cong J 10:106 F '24
Gasoline from shale. Pet Age 14:60 O 15 '24
Hartman shale oil process. Chem & Met Eng 32:571-2 Je '25
Hydrocarbon veindikes and oil shales. H. W. Hixon. Eng & Min J 119:653 Ap 18 '25
Is shale oil era here? V: C. Alderson. Pet Age 15:17-18+ F 1 '25
Making shale oil in California; internally heated retort. G: W. Wallace. il Chem & Met Eng 32:237-9 F 9 '25
May work shale for by-products only. J. H. Ginet. Nat Pet N 16:28+ Ja 9 '24
National oil shale conference. il (Quarterly v. 18, no. 4) 72p Colorado school of mines, Golden, Col. O '23
National oil shale conference, Sacramento, Calif., Oct. 2. (Quarterly v. 19, no. 4) 98p Colorado school of mines, Golden, Col. O '24
N-T-U company building for education of shale oil in large quantity. L. E. Smith. il Nat Pet N 17:30-3 Ag 19 '25
Oil-shale imaginings. Chem & Met Eng 31: 957 D 22 '24
Oil shale industry; a résumé for 1923. V: C. Alderson. il (Quarterly v. 19, no. 1) 29p [bibliog. p. 20-9] Colorado school of mines, Golden, Col. Ja '24; Abstract. Min Cong J 10:370 Ag '24
Oil shale industry; a résumé for 1924. V: C. Alderson. il (Quarterly v. 20 no. 1, supp. A) 24p [bibliog. p. 16-24] Colorado school of mines, Golden, Col. Ja '25; Same, without bibliog. Min Cong J 11:71-7 F '25
Oil-shale technology in the making. S. D. Kirkpatrick. il diags Chem & Met Eng 31: 688-92 N 3 '24
Oil shales of Somerset; comparison with other shales. W. Forbes-Leslie. Soc Chem Ind J (Chem & Ind) 43:532-9 My 23 '24; Abstract. Engineering 117:714 My 30 '24
Only guides to future power supply are present utilized sources. L. E. Smith. il Nat Pet N 17:31-2 F 4 '25
Our future oil reserves—shale is main reliance when production fails. C. A. Fisher. Nat Pet N 17:33-5 Ap 22 '25
Persistent pioneering in shale-oil production; Ginet's plant at DeBeque, Colo. S. D. Kirkpatrick. il Chem & Met Eng 31:884-5 D 8 '24
Producing shale oil on a commercial basis. il Chem & Met Eng 31:771-3 N 17 '24
Production of shale oil by the N-T-U process. G. W. Wallace. il Chem Age (Lond) 12:196-9 F 28 '25

OIL shales—*Continued*
Refining of oil-shale. E. M. Bailey. chart diags Inst Pet Tech J 10:527-53; Discussion. 553-9 Jl '24
Relation of peat to oil shale. S. Linker. Chem Age 32:63-4 F '24
Research work on oil shale. Chem & Met Eng 29:971 N 26 '23
Retorting of oil shale. V: C. Alderson. Min Cong J 10:283-4 Je '24
Shale oil. R. H. McKee and others. 326p Chemical catalog co. '25
Shale oils and tars and their products. W. Scheithauer. 2d ed, rev & enl. 290p Van Nostrand '23
Status of the shale-oil industry. G. W. Wallace. il maps Eng & Min J 118:290-2 Ag 23 '24
Sulphur compounds of Kimmeridge shale oil. F: Challenger, J. R: A. Jinks and J: Haslam. Chem Soc J 127:162-6 Ja '25
Sulphur from shale oil. Chem Age (Lond) 13: 420-1 O 24 '25
Trumble oil shale cycle distillation plant. V: C. Alderson. il Min Cong J 10:450-1 S '24; Same. Chem Age 32:364-5 S '24
Trumble oil-shale cycle-distillation plant; abstract. Mech Eng 47:581 Jl '25
What about oil shale? S. D. Kirkpatrick. il maps Chem & Met Eng 31:610-15 O 20 '24
See also Kerogen; Petroleum

Bibliography
Oil shale bibliography. Min Cong J 10:142, 188, 231, 284, 304, 372, 451; 11:14, 211, 406, 496 Mr-S '24, Ja, My, Ag, O '25
Oil shale bibliography, 1924. V: C. Alderson. (Quarterly v. 20, no. 1, supp. A) p 16-24 Colorado school of mines, Golden, Col. Ja '25

Testing
Assay retort studies of ten typical oil shales. W. L. Finley and others. U S Bur Mines Rep of Invest 2603:1-9 My '24 (typew)

Colorado
Colorado oil shale. V: C. Alderson. il map (Quarterly v. 20, no. 2) 53p Colorado school of mines, Golden, Col. Ap '25; Excerpts. Min Cong J 11:403-6 Ag '25
Colorado oil-shale development. Chem & Met Eng 31:773-5 N 17 '24
Proposed method for caving oil shale. F. Carroll and G. R. De Beque. il diag Eng & Min J 120:299-300 Ag 22 '25
Resurvey of oil shale in Garfield county, Colo. Min Cong J 11:211 My '25
What is wrong with oil shale? G: R. De-Beque. il Chem Age 32:233-6 My '24

Esthonia
Present status of the oil-shale industry in Estonia. P. N. Kogerman. il Inst Pet Tech J 11:209-23; Discussion. 224-33 Je '25

Great Britain
National importance of a British oil supply. Chem Age (Lond) 10:438-9 Ap 26 '24
Somerset oil-shales. H. G. Shatwell. A. W. Nash and J. I. Graham. il diags Inst Pet Tech J 10:872-83 D '24; Discussion. 10:884-902; 11:204-6 D '24, My '25; Abstract. Engineering 118:777-8 D 5 '24

Indiana
Distillation of New Albany oil shales. A. W. Homberger and F. M. Shipman. (Quarterly v. 20 no. 1, supp.B) 7p Colorado school of mines, Golden, Col. Ja '25

Manchuria
Shale oil possibilities in Manchuria impress Japanese. Oil Paint & Drug Rep 108:21 S 28 '25

Rocky Mountain region
Probable origin of light oils in the Rocky Mountain region. W. H. Geis. map Nat Pet N 16:71-2+ Ja 30 '24

South Africa
South African oil shales. Engineer 137:457 Ap 25 '24

Sweden
Oil shale industry in Sweden 200 years old. F. Killig. il Concrete 24:sup9-12 Ja '24
Producing oil from Swedish shale. A. Gradenwitz. il Eng & Min J 119:1000 Je 20 '25

United States
Imminence of an oil shale industry in the United States. L. C. Uren. Min Cong J 10: 563-7 D '24
Naval oil shale reserves. H. H. Rousseau. Min Cong J 11:106-8 Mr '25
Oil shale in the United States. V: C. Alderson. Min Cong J 10:331+ Jl '24
Oil shales of the East and South. R. B. Day. il Manuf Rec 88:72-4 S 10 '25
Shale oil. Economist 99:952-3 D 13 '24
What about oil shale? S. D. Kirkpatrick. il maps Chem & Met Eng 31:610-15 O 20 '24

Utah
Oil shale development in Utah that failed to reach completion. il Chem & Met Eng 32:325 F 23 '25

Wyoming
Oil shale and its microorganisms from the Fuson formation of Wyoming. W. H. Bradley. il Am J Sci 5th ser 8:228-34 S '24

OIL ships. See Tank ships

OIL storage
Bulk distribution of oil; depots and storage. F: W. Black. Inst Pet Tech J 10:584-603; Discussion. 604-5 Jl '24
Guard fuel oil from cold. J: B. Rathbun. Pet Age 16:60+ Jl 15 '25
Handling and storing lubricants. diag Textile World 65:2319+ Ap 5 '24
Hazards of industrial oil burning. H. E. Newell. Mech Eng 46:765-8 pt 2 N '24
Model oil house of reinforced concrete. P. & R. Ry. R. J. Stackhouse. il Ry R 74:288-90 F 16 '24; Same. Ry Age 76:378-80 F 9 '24; Same. Ry Mech Eng 98:147-9 Mr '24
Modern equipped oil room on the N.Y.C. il Ry Age 77:1169-70 D 27 '24
Norfolk & Western builds large oilhouse. J. W. Wade and L. L. Kelly. il plan Ry Age 79:479-81 S 12 '25
Oil storage and handling practice. il Elec Ry J 64:77-9 Jl 19 '24
Oil storage reservoir construction. P. H. Calahan. il Eng & Contr (G C) 64:875-80 O 21 '25
Proper handling and storage reduce oil losses. A. F. Brosky. il Coal Age 26:535-6 O 16 '24
Standardization of textile mill lubrication. A. F. Brewer. il Textile World 67:69-71 Ja 3 '25
Storage and handling of fuel oil in industrial plants. C. G. Sheffield and H. H. Fleming. Mech Eng 46:771-3 pt 2 N '24; Same. Pet Age 15:21+ Ja 1 '25; Same, without tables. Iron Tr R 75:1497-9 D 4 '24; Abstract. Power Pl Eng 28:1248-9 D 15 '24; Discussion. Mech Eng 47:272-4 Ap '25
Storage of fuel oil. R. Kraus. diags Blast F & Steel Pl 13:285-6 Jl '25
Storage of oil products less dangerous than public generally thinks. F. A. Epps. Nat Pet N 17:63-4 O 21 '25
Underground storage for oils and paints. il Elec Ry J 65:620 Ap 18 '25
Wabash Ry. completes new store and oil house. il diags plan Ry R 76:103-7 Ja 10 '25
Wastage and salvaging of oil at tanks in Salt Creek field, Wyo. J. S. Ross. il diag Nat Pet N 17:53+ Jl 22 '25
See also Gasoline storage; Oil bulk stations; Oil bunkering stations; Oil tanks

Fire protection
Fire-banks for oil storage. H. H. Hall. il diags Am Soc C E Pro 51:721-47 My '25; Abstract. Eng & Contr (G C) 63:1102-4 My 20 '25; Discussion. Am Soc C E Pro 51:1481-4; 52:82-5 S '25, Ja '26

OIL stoves

Advertising

Introducing new models without vexing users of the old; the Cleveland metal products company's new heater campaign. J. A. Murphy. Ptr Ink 129:3-4+ N 6 '24

OIL strainers. See Oil filters

OIL tankers. See Tank ships

OIL tanks

Aluminum paint for coating tanks. Brass W 20:68 F '24

Aluminum paint for outside work. J. D. Edwards. Chem & Met Eng 29:927 N 19 '23

A.R.E.A. committee report on facilities for fuel oil for locomotives. diags Ry R 76:499-504 Mr 14 '25; Abstract. Eng N 94:487-8 Mr 19 '25

Attempt to drain B.S. from lease tanks often is costly. A. B. Morris. Nat Pet N 16:75+ Ag 6 '24

Concrete oil tanks reinforced with outside bands. W. Travell. il Eng N 93:422-4 S 11 '24

Effect of tank colors on evaporation losses of crude oil. L. Schmidt. U S Bur Mines Rep of Invest 2677:1-7 Mr '25 (typew); Excerpts. Pet Age 15:42+ Ap 15 '25

Facts about black tanks and their installation. A. A. Butler. Sanitary & Heat Eng 104:73-4+ Ag 7 '25

Facts about galvanized tanks and their installation. E. A. Bienenstok. Sanitary & Heat Eng 104:110-12 Ag 21 '25

Figures on saving tanks with tight roofs. Nat Pet N 17:173+ My 13 '25

Loss in too many tanks. C. P. Buck. chart Pet Age 16:52+ N 1 '25

Methods for determining venting needs of storage tanks. S. H. Brooks. charts Nat Pet N 16:55-6+ My 14 '24

No leaks in welded tanks. T. C. Fetherston. Pet Age 15:58 Ap 1 '25

Novel oil tanks. il Gas Age 53:422 Ap 5 '24

Oil burning; correct installation of oil-storage tanks. Heat & Ven 22:85-7 Jl '25

Oil storage tanks of unusual design. W. Travell. il Concrete 26:166-8 My '25

Petroleum engineering; storage tanks. C. Dalley. il diags plans (supp) Inst Pet Tech J 10:459-62, 471-6; Discussion. 476-85 Jl '24

Placing a fuel-oil tank underground. A. A. Fette. il Power 61:501 Mr 31 '25

Portable oil reservoir. E. A. Miller. diags Ry Mech Eng 98:240 Ap '24

Réservoirs à mazout enterrés, système Arbel-Pellerin. diags Génie Civil 84:263 Mr 15 '24

Rules governing oil burner installations in New York city. Sanitary & Heat Eng 101: 111+, 171-2, 242-3+ F 22, Mr 21, Ap 18 '24; Same cond. Heat & Ven 21:67-71 Mr '24

Some factors in oil lease operations. H. P. Porter. il Nat Pet N 16:102+ My 14 '24

Spherical tank built for oil storage. W. C. McClure. il Iron Age 112:1388-9 N 22 '23

Storage tanks for asphalt and road oil. W. H. Kershaw. Eng & Contr (R & S) 60:962 N 7 '23

Storage tanks for oils, acids and dry materials. il plan Nat Safety N 10:41-8 N '24

Tests show cutting of crude loss possible by using proper tank paint. Nat Pet N 17:36-8 Ap 8 '25

Underground oil-storage tanks should be strapped down. R. A. Cultra. Power 60: 143-4 Jl 22 '24

Welded tanks for storage or compression. E. Moses. il Gas Age 53:275-7 Mr 8 '24

See also Oil measurement; Tank barges; Tank cars; Tank ships; Tank trucks

Cleaning

Simple method of cleaning sludge from fuel oil tanks. W. B. Clarke. Ind Eng 83:150-1 Mr '25

Failures

Oil tank fails after sudden drop in temperature. diags Eng N 94:638-9 Ap 16 '25; Discussion. E: Godfrey. 94:780 My 7 '25

Fire protection

Fire frequency is low in oil industry considering products handled. H. L. Shoemaker, F. A. Epps and R. J. Reed. Nat Pet N 17:47-8+ My 13 '25

Fire prevention in oil properties. F. A. Epps. Safety Eng 48:240-3+; 49:74-6, 221-3 D '24, F, My '25; Excerpts. Nat Pet N 16:32-b O 8 '24

Fire prevention, safety, and raising of end-point discussed at W. P. R. A. meeting. Nat Pet N 17:36 Mr 11 '25

Fire prevention work under way in eastern refineries. V. B. Guthrie. Nat Pet N 17:36-7 Ap 29 '25

Fire record of oil industry shows hazards are being eliminated. P. Wagner. Nat Pet N 17: 101-2 O 14 '25

Floating metal roof saves oil. il Am Ind 25: 37-8 My '25

Institute begins extensive survey of fire protecting oil tanks. Nat Pet N 17:65 Ja 28 '25

Insulating oil storage tanks against fire. C. A. Miketta. Eng N 93:760 N 6 '24

New oil tank roof affords fire protection. Iron Tr R 73:1490-1 N 29 '23

New oil tank roof withstands severe fire tests. M. E Smith. il diag Safety Eng 50: 73-6 Ag '25

Oil companies re-roofing tanks to reduce fire hazard. P. Wagner. Nat Pet N 16:85 Je 18 '24

Storage of oil products less dangerous than public generally thinks. F. A. Epps. Nat Pet N 17:63-4 O 21 '25

Stough insulated tank roof. diag Pet Age 14: 64 D 15 '24

System for measuring fire hazard of tanks, stills and contents. Nat Pet N 16:83+ Jl 23; 85+ Jl 30 '24

Tank fittings on wood or insulated roofs must be grounded. il diag Nat Pet N 16:75+ Jl 23 '24

Test floating roofs for oil tanks. Eng N 92: 248 F 7 '24

Vapor tight tanks, well vented, will reduce fire hazard. W. C. Platt. Nat Pet N 16:111+ My 28 '24

Wiggins floating roof affords good fire protection. C. B. Smith. diags Gas Age 53: 685-7 My 17 '24

Fire testing

Boilovers seldom occur in oil tank fires except where crude oil burns. H. H. Hall. il diags Nat Pet N 17:66-7+ Je 10; 127-8+ Je 24 '25; Same abr. Mech Eng 47:540-4 Jl '25

Gas bag attachment

Balloons to save millions. Pet Age 16:19 Ag 1 '25

Evaporation loss from storage tanks saved with gas balloons. W. K. Halbert. il Nat Pet N 17:21-3 Je 3 '25

Prevention of evaporation losses from gasoline storage tanks. R. E. Wilson and others. il Ind & Eng Chem 17:1030-5 O '25

Heating

Guard fuel oil from cold. J: B. Rathbun. Pet Age 16:60+ Jl 15 '25

Lightning protection

Investigations into the protection of oil storage-tanks from lightning. W. R. MacDonald. diag Inst Pet Tech J 10:92-9 F '24

Lightning probably greatest factor in industry's fire loss. R. J. Reed. Nat Pet N 17:62+ Ja 21 '25; Same. Am Pet Inst Bul 5:110-12; Discussion. 112-14 D 31 '24

Safety devices and measures

New guard for gas fumes; Koehler safety lamp. Pet Age 15:36 Mr 15 '25

Use of Koehler safety lamp in testing tanks for combustible gases or vapors. R. E. Wilson and R. E. Wilkins. il Ind & Eng Chem 16:1154-6 N '24

OIL tanks—*Continued*

Standards

Moves are launched to standardize barrels and assembled tanks. Nat Pet N 16:31-2 Mr 26 '24

OIL testing

Board considers setting up utility factor in purchasing lubricants. Nat Pet N 17:29-30 S 23 '25

Boilovers seldom occur in oil tank fires except where crude oil burns. H. H. Hall. il diags Nat Pet N 17:66-7+ Je 10; 127-8+ Je 24 '25; Same abr. Mech Eng 47:540-4 Jl '25

Determination of dilution of crank-case oil. H. H. Knoch, P. A. Crosby and R. R. Matthews. Ind & Eng Chem 16:1153 N '24

Flash point of fuel oil. Marine Eng 29:595-8 O '24

List of methods for testing petroleum products. J. B. Rathbun. Pet Age 15:59 My 1 '25

Measurement of viscosity by the Ostwald viscometer; conversion to time by the Redwood viscometer. S. T. Minchin. diag Inst Pet Tech J 11:284-95 Je '25

Method for the estimation of the color of oils. D. C. Cox. diag Am Soc T M Pro 23 pt 2:416-19; Discussion. 420-2 '23

Modification of tester for oils. G. A. de Graaf. diag Power 59:456 Mr 18 '24

N.P.A. approves changes in standards and methods of testing. Nat Pet N 16:59 O 1 '24

Oxidation method for measuring the stability of mineral oils. T. S. Sligh, jr. Am Soc T M Pro 24 pt 2:964-72 '24; Abstract. Power 60:551 S 30 '24; Discussion. Am Soc T M Pro 24 pt 2:973-4 '24

Oxidation number of mineral oils. diags Automobile Eng 15:139-41 My '25

Plan worked out for standardization of oil viscosity tests. Automotive Ind 53:136-8 Jl 23 '25

Proposed modification of the A.S.T.M. pour test applicable to those oils which give erratic results by the present method. J. B. Rather and H. M. Anderson. Am Soc T M Pro 24 pt 1:553-6 '24

Report of sub-committee XIV on illuminating oils. Am Soc T M Pro 24 pt 1:559-62 '24

Testing of petroleum oils for gasification. A: Holmes. Ind & Eng Chem 16:258-61 Mr '24

Tests show short range absorption oil more efficient than long range. A. F. Maxon. Nat Pet N 17:76+ My 20 '25

Uniform method of correcting volume for temperature. Nat Pet N 16:91+ My 21 '24

Urges use of standard apparatus and care in testing oils. Nat Pet N 16:79+ D 3 '24

Various oil tests. Brass W 20:184 My '24

Viscosity-temperature curves of fractions of typical American crude oils. F. W. Lane and E. W. Dean. Ind & Eng Chem 16:905-11 S '24

See also Lubrication and lubricants—Testing; Oil, Transformer—Testing; Road oils—Testing; Viscosimeters

OIL transportation

Safeguarding tank car shipments of light oils. R. W. Kelly. il diag Nat Safety N 11:29-30 Ap '25

See also Oil pipe lines; Petroleum—Transportation; Petroleum pipe lines; Tank barges; Tank cars; Tank ships; Tank trucks

OIL waste

See Oil pollution of rivers and harbors

OIL-wax mixtures

Analysis of oil-wax mixtures. L. D. Wyant and L. G. Marsh. diags U S Bur Mines Rep of Invest 2655:1-3 N '24 (typew); Same. Pet Age 15:37+ F 15 '25

OIL weight chart

Useful oil weight chart. W. F. Schaphorst. Power Pl Eng 28:958 S 15 '24

OIL wells. See Petroleum—Well boring

OILCLOTH

Oil and leather cloths. J. W. Cox, jr. il Textile World 65:2639-40+, 2769-70+, 3005+, 3303+, 4214+ Ap 19-My 3, 17, Je 28 '24

OILED roads. See Roads, Oiled

OILS, Essential. See Essential oils

OILS, Sulfonated. See Sulfonated oils

OILS and fats

Biochemistry of the fats. W. R. Bloor. Chem R 2:243-300 [bibliog. p. 295-300] Jl '25

Catalytic hydrogenation of certain oils. L: Kahlenberg and Tsu Pei Pi. J Phys Chem 28:59-70 Ja '24

Determination of consistence. W. R. Goddard and C. K. Hewes. il Chem & Met Eng 32: 456-7 Ap '25

Evolution of hydrogen peroxide by oils on exposure to light. G. F. A. Stutz, H. A. Nelson and F. C. Schmutz. il Ind & Eng Chem 17:1138-41 N '25

Extraction of oil from seeds, nuts and kernels. J. Brewis. il diags Soc Chem Ind J (Chem & Ind) 43:111-19 F 1 '24

The fats. J. B. Leathes and H. S. Raper. 2d ed. 242p [bibliog. p. 219-38] Longmans '25

Fats and oil output, consumption, stocks record for quarter ended June 30, 1924. Oil Paint & Drug Rep 106:39 Ag 11 '24

Fats and oils output, consumption and stocks for quarter ended September 30. Oil Paint & Drug Rep 106:32b N 17 '24

Fats and oils output, consumption and stocks for quarter ended December 31. Oil Paint & Drug Rep 107:68 Mr 26 '25

Fats: natural and synthetic. W: W. Myddleton and T. H. Barry. 182p Van Nostrand '24

Fluidity anomalies in refined mineral oils. E. C. Bingham, W: L. Hyden and G. R. Hood. Ind & Eng Chem 16:25-6 Ja '24; Discussion. 16:534-5 My '24

Handbook of industrial oil engineering. J: R. Battle. 2d ed., rev. 1141p Lippincott '23

Hydrogenation in the petroleum industry. H. I. Waterman and J. N. J. Perquin. il Inst Pet Tech J 11:36-50; Discussion. 51-60 F '25

Hydrogenation of vegetable and marine oils by a continuous process. R. A. Bellwood Chem Age (Lond) 12:222-4 Mr 7 '25

Interfacial tension between petroleum products and water. E. M. Johansen. bibliog diags Ind & Eng Chem 16:132-5 F '24

Kohlenwasserstofföle und fette, sowie di ihnen chemisch und technisch nahestehen den stoffe. D: Holde. 6th ed., rev. and en 856p J. Springer, Berlin '24

Measurement of susceptibility of fats to oxidation. G. R. Greenbank and G. E. Holm. diag Ind & Eng Chem 17:625 Je '25

Methods of extracting oils from seeds. Chem Age (Lond) 9:680-1 D 22 '23

Miscellaneous oils. J. B. Rathbun. Pet Age 15:71 F 15 '25

Neglected chapter in chemistry: the fats. E. F. Armstrong and J: Allan. Soc Chem Ind J 43:207-18 Jl 11 '24; Same (Un chapitre négligé de la chimie: les graisses). Chimie & Ind 12:607-22 O '24; Abstract. Chem Age (Lond) 11:31 Jl 12 '24

New oil for protecting gas holders. R. Mezger. Am Gas J 122:74, 81-3 Ja 24 '25

Oils and fats statistics overhauling is to be sought by committee of consumers. Oil Paint & Drug Rep 108:21 O 26 '25

Oils for quenching and hardening. J. B. Rathbun. Pet Age 13:79 My 1 '24

Polymerisation of drying oils. R. S. Morrell. Soc Chem Ind J 43:362 D 19 '24

Production, consumption and stocks of fats and oils for three months to March 31. Comm & Fin Chr 118:2377-8 My 17 '24

Quantitative aspects of the Kreis test. G: E. Holm and G: R. Greenbank. Ind & Eng Chem 15:1051-3; 16:518 O '23, My '24

Rancidity and the Kreis test. T. W. Jones. bibliog Soc Chem Ind J (Chem & Ind) 43: 1258-9 D 19 '24

Report of N.P.O. & V.A. committee on miscellaneous oils. Oil Paint & Drug Rep 108:66-7 N 5 '25

OILS and fats—*Continued*
Selbstentzündung von ölen. H. Jentzsch. il diags Zeit Ver Deutsch Ing 69:1353-7 O 24 '25
Some factors concerned in the autoxidation of fats; with especial reference to butter fat. G: R. Greenbank and G: E. Holm. Ind & Eng Chem 16:598-601 Je '24
Study in oil viscosities. J: B. Rathbun. Pet Age 15:54+ Mr 1 '25
Synthetic fat containing a methylglucoside residue. J. C. Irvine and H. S. Gilchrist. Chem Soc J 125:1-10 Ja '24
Utilité du laboratoire de recherches chimiques dans l'industrie de l'huilerie et les industries annexes. E. André. Chimie & Ind 13: 1031-7 Je '25
Vegetable oils. E. A. Browne. 88p Macmillan '24
Viscosity of oils at high temperatures. A. R. Fortsch and R. E. Wilson. diags Ind & Eng Chem 16:789-92 Ag '24
World trade in vegetable oils and animal fats. J. E. Wrenn. U S Bur For & Dom Com misc ser 123:1-124 '23

See also Acids, Fatty; Butter fat; Castor oil; Chenopodium oil; Cocoanut oil; Cod-liver oil; Core oils; Corn oil; Cottonseed oil; Creosote; Dehydration; Deodorization; Drying agents; Emulsification; Emulsions; Essential oils; Eucalyptus oil; Fish oil; Fusel oil; Gas and oil engines—Fuel; Gas oil; Gasoline; Grape seed oil; Hydrogenation; Lard; Linseed oil; Lubricating greases; Lubrication and lubricants; Menhaden oil; Oil analysis; Oil filters; Oil industries; Oil weight chart; Oleomargarine; Olive oil; Palm oil; Perilla oil; Petroleum; Rancidity; Road oils; Saponification; Soap; Soy bean oil; Sulfonated oils; Tariff—United States—Oils and fats; Textile oils; Tung oil; Whale oil; Wool fat

Prices

Miscellaneous oils. Published in weekly numbers of Oil paint and drug reporter
Miscellaneous oils: market review. Oil Paint & Drug Rep 105:70-3 Mr 20 '24
Miscellaneous oils; market review. Oil Paint & Drug Rep 107:69-70, 71-3 Mr 26 '25

OKLAHOMA

See also Coal—Oklahoma; Finance—Oklahoma; Gas, Natural—Oklahoma; Geology—Oklahoma; Hydroelectric plants—Oklahoma; Mines and mineral resources—Oklahoma; Petroleum—Oklahoma; Petroleum industry and trade—Oklahoma-Kansas district

Industries and resources

Oklahoma—the wonder state of the Southwest: its progress and prospects. M. E. Trapp. Manuf Rec 86:402; Statistics. 407 pt 2 D 11 '24

OKLAHOMA City, Oklahoma
Building on the bed-rock of Oklahoma. E. Overholser. il Manuf Rec 88:78-80 O 15 '25

Rapid transit

Many changes recommended for Oklahoma railway. Elec Ry J 65:519 Mr 28 '25
Oklahoma City enlarges passenger station. il plan Elec Ry J 64:912-14 N 29 '24

Water supply

Second water purification works for Oklahoma City. il plan Eng N 93:216-19 Ag 7 '24

OKLAHOMA. University
University courses in accounting. W. K. Newton. J Account 39:194-6 Mr '25

OLD age
Can old age be deferred? il Sci Am 133:226-7 O '25
Preparing employees to keep jobs in old age. E. H. Fish. Management & Adm 7:204 F '24

See also Age; Rejuvenation

OLD age homes. See Homes, Institutional

OLD age pensions
Beginning of old age pension legislation in the United States. J. P. Chamberlain and S. Pierson. Econ W n s 27:309-10 Mr 1 '24
England's old age pension plan. F. Plachy, jr. il Burroughs Clearing House 9:19-20+ S '25
Legislative action on old-age pensions, 1925 Monthly Labor R 17:1172-4 N '23
Old age and invalidity pensions in Australia Monthly Labor R 20:634 Mr '25
Old-age pensions in Nevada. Monthly Labor R 20:892 Ap '25
Old-age pensions in Norway. Monthly Labor R 19:211-12 Jl '24
Present status of old-age pension legislation in the United States. A. Epstein. Monthly Labor R 19:760-7 O '24
Report of Pennsylvania commission on old age assistance. Monthly Labor R 21:157-9 Jl '25

See also Civil service pensions; Pensions, Industrial

OLD fashioned products. See Products, Obsolescent

OLDS, R. E.
R. E. Olds couldn't get engines out of his head. O. D. Foster. por Forbes 15:279-81+ D 1 '24

OLEFINS
Higher alcohols from petroleum olefins. W. W. Clough and C. O. Johns. Ind & Eng Chem 15:1030-2 O '23; Same. Pet Age 13:48+ Ja 1 '24
Platinum and palladium oxides as catalysts in the reduction of organic compounds; the reduction of olefins. J. W. Kern, R. L. Shriner and R. Adams. Am Chem Soc J 47: 1147-58 Ap '25

OLEIC acid
Action of catalysts with nondrying oils. A: H. Gill. Ind & Eng Chem 16:23-4 Ja '24
Constitution of natural unsaturated fatty acids; a new method of ascertaining the position of the ethylenic linkage in acids of the oleic series. E. F. Armstrong and T. P. Hilditch. Soc Chem Ind J 44:43-7 Ja 30 '25
Oxidation products of oleic acid; degradation of dihydroxystearic acid. A. Lapworth and E: N. Mottram. Chem Soc J 127:1987-9 S '25
Synthesis of certain higher aliphatic compounds; a synthesis of lactarinic acid and of oleic acid. G. M. Robinson and R. Robinson. Chem Soc J 127:175-80 Ja '25

Analysis

Oxidation products of oleic acid; conversion of oleic acid into dihydroxystearic acid and the determination of the higher saturated acids in mixed acids from natural sources. A. Lapworth and E: N. Mottram. Chem Soc J 127:1628-31 Jl '25

OLEOMARGARINE
Dairy industry, oleomargarine and cottonseed products as seen in the West. C. Goins. Manuf Rec 87:81-2 Mr 19 '25
Observations on the Baudouins test. C. O. Gravenhorst. Ind & Eng Chem 16:47-8 Ja '24

OLEOMARGARINE factories

Accounting

Oleomargarine industry. S. S. Bourgeois. J Account 40:337-48 N '25

OLIVE drab
Dyeing of olive drab; with discussion. A. A. Claflin. Am Dyestuff Rep 12:941-4+ D 31 '23

OLIVE oil
Action of catalysts with nondrying oils. A: H. Gill. Ind & Eng Chem 16:23-4 Ja '24
Chemical composition of California olive oil; abstract. G: S. Jamieson and W. F. Baughman. J Fr Inst 200:131 Jl '25
Condensation of mannitol with olive oil. J. C. Irvine and H. S. Gilchrist. Chem Soc J 125:10-15 Ja '24
Dielectric constants of some liquids, and their variation with temperature. G. E. Bell and F. Y. Poynton. diags Philos Mag 6th ser 49:1065-72 My '25
Étude critique sur le raffinage des huiles d'olive. G. Ray. Chimie & Ind 10:840-6 N '23

OLIVER, Edwin Letts
Metallurgists of note. por Eng & Min J 118: 204 Ag 9 '24

OLIVER, James
Make the customer your friend, said James Oliver. por System 45:784-5 Je '24

OLIVER oil-gas burner
How a distributing system for Oliver oil-gas burner grew from mail-order advertising. G. A. Nichols. Ptr Ink 126:157-8+ Ja 10 '24

OLIVES
Modern technology enters the olive industry. il Chem & Met Eng 32:155-6 Ja 26 '25

OMAHA, Nebraska
Acquila court, Omaha. J. W. Hanbery. Arch Rec 55:208 F '24
What sales managers think about sales prospects in Omaha territory. il Sales Management 7:1293-4+ Jl '24

Bridges

Widening the Missouri river highway bridge at Omaha. il diags Eng N 94:1006-10 Je 18 '25

Rapid transit

Surplus in Omaha. Elec Ry J 65:951 Je 13 '25
Ten cents cash in Omaha. Elec Ry J 65:989 Je 20 '25

Water supply

Omaha water emergency is investigated. Eng N 91:820 N 15 '23

OMNIBUS corporation
Annual report, year ended Dec. 31, 1924. Comm & Fin Chr 120:3061 Je 13 '25
Fifth avenue—Chicago merger completed. Bus Transportation 3:335, 383 Jl-Ag '24

ONE-MAN cars. See Street cars—One-man cars

ONEIDA, New York

Sewerage

Separate sludge digestion at Oneida, N.Y. H: W. Taylor. il diags Pub Works 55:385-7 D '24

ONEIDA community, limited
Oneida community extend plant at Niagara Falls. diag Can Eng 49:502 O 27 '25

ONTARIO, Canada
See also Forests and forestry—Ontario; Geology—Ontario; Hydroelectric plants—Ontario; Mines and mineral resources—Ontario; Paper industry and trade—Ontario; Roads—Ontario; Silver mines and mining—Ontario; Water power—Ontario

Hydroelectric power commission

Annual report, 15th. il Elec R (Lond) 93: 690-1, 819-21 N 9, 30 '23
Annual report, 16th. Elec R (Lond) 95:415-16 S 12 '24
Annual report, 17th, 1924. Can Eng 49:169 Jl 28 '25; Elec W 86:332 Ag 15 '25; Power 62: 267 Ag 18 '25; Elec R (Lond) 97:315-16 Ag 21 '25
Gregory report vindicates Hydro commission; abstracts. Can Eng 46:337-8 Mr 18 '24; Elec W 83:590 Mr 22 '24; Eng N 92:544 Mr 27 '24
Hydro replies to Gregory commission. A. Beck. Can Eng 48:541-2+ Je 2 '25
Hydro's plan for St Lawrence. Can Eng 46: 146 Ja 15 '24
Industry we represent, and a note on the Canadian hydro. F. T. Griffith. N E L A Bul 12:305-6 My '25
New appointments to Hydro-electric power commission of Ontario. Can Eng 49:328-9 S 22 '25
Ontario hydro report indicates progress. il Can Eng 49:233-6 Ag 18 '25
L'organisation et les travaux de l'hydro-electric power commission of Ontario. Génie Civil 85:579-81 D 20 '24
Review of Ontario hydro situation. A. Beck. Can Eng 48:213-14 F 10 '25
St Lawrence power scheme. Can Eng 46:167-8 Ja 22 '24
Salient findings of Royal commission appointed to investigate governmentally owned hydro-electric systems in Ontario, Canada. S: S. Wyer. N E L A Bul 12:173-5 Mr '25
Smithsonian institution reports the facts on the Ontario hydro-electric. S: S. Wyer. Pub Serv Management 38:37-9 F '25; Same cond. N E L A Bul 12:171-3 Mr '25; Abstracts. Elec W 85:217-18 Ja 24 '25; Nation's Business 13:13-15 F '25; Excerpts. J Elec 54:171-2 Mr 1 '25; Discussion. Elec W 85:367 F 14 '25; J Elec 54:173 Mr 1 '25; Nation's Business 13:39 Ap '25
Truth about electric rates in Ontario. W: M. Carpenter. map Elec W 84:887-90 O 25 '24
Wyer-Walcott report on hydro refuted. A. Beck. Can Eng 48:209-10, 237-8 F 10-17 '25

ONTARIO good roads association
Annual meeting, 22d, Toronto, Feb. 27-29. Can Eng 46:301-3 Mr 4 '24
Annual convention, 23d, Toronto, Feb. 25-27. Can Eng 48:270-2 Mr 3 '25

ONTARIO land surveyors, Association of. See Association of Ontario land surveyors

OPALESCENCE
Thermal opalescence in crystals. C. V. Raman. il Sci Am 130:38 Ja '24

OPEN air schools. See Schools, Open air

OPEN and closed shop
Basis for thriving labor and factories. N. Sargent. Brick & Clay Rec 64:728-33 My 13 '24
Cleveland railway open shop. Aera 13:1858-61 Je '25; Elec Ry J 65:743, 785 My 9-16 '25
Jurisdictional menace today. C: B. King. Am Ind 25:41-5 Jl '25
Progress of American plan open shop. Manuf Rec 87:87 My 21 '25
Some aspects of the open shop. P. Eliel. Eng & Contr (Bldgs) 63:863-5 Ap 24 '25

OPEN door policy
British dominions and the open door. P. Kerr. Ann Am Acad 112:232-4 Mr '24
Victory for open-door policy in topsy-turvy oil world. A. C. Laut. il Forbes 13:509-10+ F 2 '24

OPEN hearth furnaces
Abmessungen und leistungen deutscher Siemens-Martin-oefen. H. Bansen. diags Stahl & Eisen 45:489-503, pl 14-18; Discussion. 503-7 Ap 2 '25
Allgemeine gesichtspunkte für den bau von Martinöfen. E. Diepschlag. diags Zeit Ver Deutsch Ing 68:1233-6 N 29 '24
Changes which take place in silica brick during their use in open-hearth furnaces. W. J. Rees. il Am Cer Soc J 8:40-2 Ja '25
Compare steel refractories. E. C. Kreutzberg. Foundry 52:175-6 Mr 1 '24
Considerations necessary in selection of refractories for the open hearth. S. Cornell, C. E. Williams and others. il Am Cer Soc J 7:670-705; Discussion. 705-16 S '24
Les fours Martin modernes. J. Arnoul de Grey. Génie Civil 85:426-30 N 8 '24; Abstract (Vergleich amerikanischer und europäischer Siemens-Martin-oefen). Stahl & Eisen 45: 1535-8 S 3 '25
Die gasumsetzungen in den kammern der mit einem gemisch aus hochofen- und koksofengas beheizten Siemens-Martin-oefen. W. Hülsbruch. Stahl & Eisen 45:1746-51 O 15 '25
Heat-balance open-hearth. F. J. Crolius. il plan Blast F & Steel Pl 13:190-2 My '25
Holzfeuerung für Siemens-Martin-oefen. H. Kreutz von Scheele. diags Stahl & Eisen 45: 516-18 Ap 2 '25
Increases steelmaking capacity of the Inland steel co. E. C. Boehringer. il Iron Tr R 74: 1566-7 Je 12 '24
Leistung und wirkungsgrad als unterlagen für bau und berechnung der Siemens-Martin-oefen. H. Bansen. diags Stahl & Eisen 45:702-15, 748-56, 789 My 7-21 '25; Discussion. 45:789-99 My 21 '25
Longer life for furnace roofs. C: J. Crawford. diags Iron Age 113:1083 Ap 10 '24
Making bottom for a conducting hearth. A. Bryant. Foundry 52:899 N 15 '24

OPEN hearth furnaces—*Continued*
Messrs Brown Bayley's steel works, Sheffield. il Engineering 120:256-8, pl 16 Ag 28 '25
Modern steel plant in Fairfield, Alabama. diag Iron Age 116:887-8 O 1 '25; Same, with plans. Manuf Rec 88:80-1 O 8 '25; Same. Iron Tr R 77:826-8 O 1 '25
Die möglichkeit der verwendung von gichtgas im Siemens-Martin-ofen. W. Tafel and F. Anke. Stahl & Eisen 45:1773-7 O 22 '25
Der Moll-kopf für Siemens-Martin-oefen. H. Moll. diags Stahl & Eisen 44:194-6 F 21 '24; Abstract (New open-hearth furnace end). Iron Age 113:1277-8 My 1 '24; Discussion. Stahl & Eisen 44:197-202 F 21 '24
Open-hearth furnace regenerators. F. B. Quigley. diags Engineering 117:29-32 Ja 4 '24
Open-hearth in 1924. F. J. Crolius. diags Blast F & Steel Pl 13:42-5 Ja '25
Open-hearth pressure control. G. R. McDermott. il chart Blast F & Steel Pl 13:232-3 Je '25
Proportions and performance of gas burning furnace. diag Iron Age 116:1110-11 O 22 '25
Reducing steel melting costs. E. A. Phoenix. diags Iron Tr R 77:553-4 S 3 '25
Service affects life of linings. C: A. Smith. Iron Tr R 74:546-7+ F 21 '24; Same. Foundry 52:177-8 Mr 1 '24
Siemens-Martin-oefen mit rekuperativfeuerung. F. Rapatz. diags Stahl & Eisen 45:757-8 My 14 '25
Special open-hearth steel castings. S. H. Bunnell. il Iron Age 115:901-3 Mr 26 '25
Study open-hearth refractories at Atlantic City meeting of American ceramic society. Iron Tr R 74:493-4 F 14 '24; Iron Age 113: 652 F 28 '24
Theoretical considerations respecting certain features in the working and efficiency of reversing regenerators. J. Seigle. diags Iron & Steel Inst J 109:257-303; Discussion. 304-11 no 1 '24
Trumbull steel breaks another record; basic open hearth furnace produces 35,000 tons. il charts diag Blast F & Steel Pl 13:353-6 S '25
Ueber abhitzeverwertung von Siemens-Martin-oefen zur holtztrocknung. H. Kreutz von Scheele. diags Stahl & Eisen 44:950-1 Ag 7 '24
Zur kohlenstaubfrage. W. Schmitz. diag Stahl & Eisen 44:285-7 Mr 13 '24

Charging

Reducing open hearth car upkeep. C. L. Newby. il Blast F & Steel Pl 12:331-3 Jl '24

Tapping

Improved oxygen lance for open hearth. T. C. Fetherston. diag Blast F & Steel Pl 13:374 S '25
Open notches with gas lance. E. E. Thum. il diag Iron Tr R 77:749-52 S 24 '25

OPEN hearth process
Abmessungen und leistungen deutscher Siemens-Martin-oefen. H. Bansen. diags Stahl & Eisen 45:489-503, pl 14-18 Ap 2 '25; Discussion. 45:503-7, 1357-60 Ap 2, Ag 6 '25
A.I.M.M.E. discuss open-hearth problems. Iron Tr R 77:1063-4 O 22 '25; Iron Age 116: 1109-13 O 22 '25
Die aufnahme des schwefels aus dem heizgas im Siemens-Martin-ofen. A. Jung. Stahl & Eisen 44:911-14 Jl 31 '24; Same cond. Iron Age 116:1586-7 D 10 '25
Die berechnung des warmebedarfs der Siemens-Martin-oefen. H. Bansen. Stahl & Eisen 43:1031-9 Ag 9 '23; Discussion. 44:150-2 F 7 '24
Betriebserfahrungen mit abhitzekesseln hinter Siemens-Martin oefen. W. Schuster. diags Stahl & Eisen 44:65-71 Ja 17 '24; Abstract. Blast F & Steel Pl 12:474-5 O '24
Blast furnace and open-hearth problems discussed at meeting of American institute of mining and metallurgical engineers. Iron Tr R 74:618-19 F 28 '24
Comparative cold-rolling tests of open-hearth steel strip (deep-drawing stock) and electrolytic-iron strip. J: R. Freeman, jr. and R. D. France. U S Bur Stand Tech Pa 288: 297-313 '25
Ferric oxide in steel making. J. H. Whitney. Iron Age 116:1031+ O 15 '25
Metalloids in basic pig iron in openhearth practice. C. L. Kinney, jr. Blast F & Steel Pl 12:45-50+, 150-3, 220-4+ Ja, Mr, My '24; Abstract. Iron Age 113:718 Mr 6 '24
Oxygen and the red shortness of steel. H. Monden. il Iron Age 114:1338-40 N 20 '24
Planning, erection and operation of modern open-hearth steel works. H. Hermanns. 308p E. Benn, Ltd., London; Van Nostrand, N.Y. '24; Review. Chem Age (Lond) 11:sup10-11 Ag 2 '24
Quality of electric and open-hearth steels. B. E. L. De Maré. Iron Age 113:379-81 Ja 31 '24
Recovery of waste heat in open-hearth practice. W. Dyrssen. bibliog diags Iron & Steel Inst J 109:175-222 no 1 '24; Same cond. Stahl & Eisen 45:1276-83 Jl 23 '25; Summary. Engineer 137:565 My 23 '24; Same. Iron Age 113:1641 Je 5 '24; Discussion. Iron & Steel Inst J 109:223-55 no 1 '24; Engineer 137:565 My 23 '24; Engineering 117:632-3 My 16 '24; Iron Age 113:1641-3 Je 5 '24
Some factors affecting the elimination of sulphur from the basic open-hearth process. C. H. Herty, jr. Iron Age 115:619-20 F 26 '25
Story of steel. il diag Sci Am 130:396-7+ Je '24
Use of pulverized coal in open-hearth furnaces. R. H. Lowndes. Mech Eng 45:651-2 N '23; Same. Iron Age 112:1721-3 D 27 '23; Discussion. W. H. Fitch. 113:521-2 F 14 '24
Versuche zur einregelung von gaserzeuger und Siemens-Martin-ofen. G. Bulle. diags Stahl & Eisen 44:397-403 Ap 10 '24
Wirkungsgrade im betriebe des Siemens-Martin-ofens. G. Bulle. Stahl & Eisen 44:1324-6; Discussion. 1327-30 O 23 '24
Wisconsin steel works, South Chicago, Ill., adds open-hearth. G. L. Lacher. il plan Iron Age 113:1421-5 My 15 '24

See also Open hearth furnaces

Cost

Operation of open hearth furnaces. U. Peters. Blast F & Steel Pl 12:273 Je '24

OPIANIC acid
Polyhydroxy and polyhydroxymethyl anthraquinones; syntheses from opianic acid and phenols or cresols. R. A. Jacobson and R. Adams. Am Chem Soc J 47:2011-18 Jl '25
Polyhydroxy-methylanthraquinones; condensation of opianic acid with substituted phenols —orientation in the preparation of anthraquinones. R. A. Jacobson and R. Adams. Am Chem Soc J 46:2788-93 D '24
Syntheses of *m*-opianic acid. W: H: Perkin, jr. and F. W. Stoyle. Chem Soc J 123:3171-6 D '23

OPIUM
International control of the traffic in opium; summary of the opium conferences held at Geneva, November, 1924, to February, 1925. 55p Foreign policy association, 9 East 45th st., New York '25
Narcotic plan of U.S. fails in part at Geneva. Oil Paint & Drug Rep 106:20 N 24 '24

OPPAU explosion. See Explosions

OPTICAL gages. See Measuring instruments, Optical

OPTICAL glass. See Glass, Optical

OPTICAL instruments
Binocular stereo magnifier. il Iron Age 115: 1335 My 7 '25
Telescope and microscope in one. il Sci Am 131:103 Ag '24

See also Glass, Optical; Interferometer; Lenses; Measuring instruments, Optical; Microscope and microscopy; Projection apparatus; Reflection (optics); Rotoscope; Spectrograph; Spectrophotometer; Stroboscopic instruments; Telescopes

OPTICAL properties
Optical constants of solid caesium. J. B. Nathanson. diags Phys R 25:75-84 Ja '25

OPTICAL pyrometers. See Pyrometers and pyrometry

OPTICAL rotation
Configurational relationships of the sugars, hydroxy acids, amino acids and halogen acids. P. A. Levene. diags Chem R 2:179-216 [bibliog. p. 215-16] Jl '25
Dehydration of the optically active methyl- and ethyl-hydrobenzoins. A. McKenzie and R. Roger. Chem Soc J 125:2148-55 O '24
Dissymmetry and asymmetry of molecular configuration. F. G. Mann and W. J. Pope. Soc Chem Ind J (Chem & Ind) 44:833-5 Ag 21 '25
Fluoro-acetyl derivatives of sugars; optical rotation and atomic dimension. D. H. Brauns. Am Chem Soc J 46:1484-8 Je '24
Influence of hydrogen-ion concentration on the optical rotation of gelatin. R. H. Bogue and M. T. O'Connell. Am Chem Soc J 47: 1694-7 Je '25
Investigations on the dependence of rotatory power on chemical constitution: four alcohols containing the vinyl group and some esters derived therefrom. J. Kenyon and D. R. Snellgrove. Chem Soc J 127:1169-81 My '25
Investigations on the dependence of rotatory power on chemical constitution; further experiments on the Walden inversion. J. Kenyon, H: Phillips and H. G: Turley. Chem Soc J 127:399-417 F '25
Investigations on the dependence of rotatory power on chemical constitution; some compounds containing the secondary octyl radical linked to oxygen. H. Hunter. Chem Soc J 125:1389-95 Je '24
Investigations on the dependence of rotatory power on chemical constitution; the chemical significance of rotatory dispersion. H. Hunter. Chem Soc J 125:1198-1206 My '24
Investigations on the dependence of rotatory power on chemical constitution; the normal aliphatic ethers of d-γ- nonanol. J. Kenyon and T: W. Barnes. Chem Soc J 125:1395-1400 Je '24
Investigations on the dependence of rotatory power on chemical constitution; three optically active alcohols containing a phenyl group and some esters derived therefrom. L. F. Hewitt and J. Kenyon. Chem Soc J 127:1094-1104 My '25
Method for the complete, mutual resolution of inactive acids and bases. A. W. Ingersoll. Am Chem Soc J 47:1168-73 Ap '25
Mutarotation as a factor in the kinetics of invertase action. J. M. Nelson and O. Bodansky. Am Chem Soc J 47:1624-38 Je '25
Mutarotation lag in sucrose inversion. S. W. Pennycuick. Chem Soc J 125:2049-63 O '24
Mutarotation of the sugars. R. Gilmour. Chem Soc J 125:705-6 Mr '24
New method of diagnosing potential optical activity; the optical activity of chlorobromomethanesulphonic acid. J: Read and A. M. McMath. Chem Soc J 127:1572-99 Jl '25
Optical activation of racemic acid by *d*-malic acid. A. McKenzie, H. J. Plenderleith and N. Walker. Chem Soc J 123:2875-80 N '23
Optical activity and the polarity of groups attached to the asymmetric atom. H. G. Rule. Chem Soc J 125:1121-34 My '24; Discussion. Soc Chem Ind J (Chem & Ind) 43:851-2, 917-18, 1010, 1214 Ag 22, S 12, O 10, D 5 '24
Optical inactivity of the active sugars in the adsorbed state:—a contribution to the chemical theory of adsorption. S. S. Bhatnagar and D. L. Shrivastava. J Phys Chem 28:730-43 Jl '24
Optical rotation and atomic dimension. D. H. Brauns. Am Chem Soc J 47:1280-98 My '25
Optically active β-phthalimino-β-phenylpropiophenones. A. McKenzie and T. M. A. Tudhope. Chem Soc J 125:923-30 Ap '24
Optically active dyes; adsorption, absorption spectra and rotation. W. R. Brode and R. Adams. Am Chem Soc J 46:2032-43 S '24
Optically active sulphilimines. F: G: Mann and W: J. Pope. Chem Soc J 125:911-18 Ap '24
Origin of mutarotation and the mechanism of isomeric change; abstract and discussion. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 43:10-11 Ja 4 '24
Relations between rotatory power and structure in the sugar group; some terpene alcohol glycosides of glucose, glucuronic acid, maltose and lactose. C. S. Hudson. Am Chem Soc J 47:537-43 F '25
Relations between rotatory power and structure in the sugar group; the chloro- and bromo-acetyl derivatives of arabinose. C. S. Hudson and F. P. Phelps. Am Chem Soc J 46:2591-2604 N '24
Relations between rotatory power and structure in the sugar group; the chloro-, bromo- and iodo-acetyl derivatives of lactose. C. S. Hudson and A. Kunz. Am Chem Soc J 47:2052-5 Jl '25
Relations between rotatory power and structure in the sugar group; the halogen-acyl- and nitro-acyl derivatives of the aldose sugars. C. S. Hudson. Am Chem Soc J 46: 462-89 F '24
Relations between rotatory power and structure in the sugar group; the methyl glycosidic derivatives of the sugars. C. S. Hudson. Am Chem Soc J 47:268-80 Ja '25
Relations between rotatory power and structure in the sugar group; the rotation of the alpha form of methyl gentiobioside recently synthesized by Helferich and Becker. C. S. Hudson. Am Chem Soc J 47:872-3 Mr '25
Relations between rotatory power and structure in the sugar group; the rotatory powers of the alpha and beta forms of methyl *d*-xyloside and of methyl *l*-arabinoside. C. S. Hudson. Am Chem Soc J 47:265-8 Ja '25
Relations between rotatory power and structure in the sugar group; two isomeric crystalline hexa-acetates of dextro-alpha-manno-heptose. C. S. Hudson and K. P. Monroe. Am Chem Soc J 46:979-83 Ap '24
Resolution of chlorosulphoacetic acid into its optically active components. H. J. Backer and W. G. Burgers. Chem Soc J 127:233-7 Ja '25
Resolution of *dl*-diphenylpropylenediamine and *dl*-1:4-diphenyl-2-methylpiperazine. F. B. Kipping and W: J. Pope. Chem Soc J 125: 2396-9 N '24
Ring-chain tautomerism; dynamical evidence relating to the mutarotation of the sugars. J. W. Baker, C. K. Ingold and J. F. Thorpe. Soc Chem Ind J (Chem & Ind) 42:1137-8 N 23 '23
Ring-chain tautomerism; the mutarotation of the sugars. J: W: Baker, C. K. Ingold and J. F. Thorpe. Chem Soc J 125:268-91 Ja '24
Some further remarks on optical rotation-dispersion. T. S. Patterson. Soc Chem Ind J (Chem & Ind) 43:614-16 Je 13 '24
Specific rotation of invert sugar and the Clerget divisor. F. W. Zerban. Am Chem Soc J 47:1104-11 Ap '25
Studies of dynamic isomerism; experiments on the arrest of mutarotation of tetramethylglucose. T: M. Lowry and E. M: Richards. Chem Soc J 127:1385-1401 Je '25; Summary, with discussion. Soc Chem Ind J (Chem & Ind) 44:282-3 Mr 13 '25
Studies of dynamic isomerism; the mechanism of mutarotation. T: M. Lowry. Chem Soc J 127:1371-85 Je '25
Studies of dynamic isomerism; the mutarotation of aluminium benzoylcamphor. I. J: Faulkner and T: M. Lowry. Chem Soc J 127:1080-5 My '25
Studies of dynamic isomerism; the mutarotation of beryllium benzoylcamphor. H: Burgess and T: M. Lowry. diag Chem Soc J 125: 2081-96 O '24
Studies of the optical activity of gelatin systems. E. O. Kraemer and J. R. Fanselow. J Phys Chem 29:1169-77 S '25
Studies on the dependence of optical rotatory power on chemical constitution; rotatory dispersions of *d*-camphorimide, *d*-cam-

OPTICAL rotation—*Continued*
phorbenzylimide, benzyl-*d*-camphoramic acid, and their derivatives. B. K. Singh and A. C. Biswas. Chem Soc J 125:1895-8 S '24

See also Dispersion; Polarization (light); Racemization; Walden inversion

OPTICAL superposition
Studies in optical superposition; *d-sec.*-octyl *i*-tartrate. T. S. Patterson and C: Buchanan. Chem Soc J 125:1475-6 Jl '24
Studies in optical superposition; the methyl-*n*-hexylcarbinyl dimethoxysuccinates. T. S. Patterson and C: Buchanan. Chem Soc J 125:2579-90 D '24

OPTICS
College manual of optics. L. W: Taylor. 236p Ginn '24
Intermittent illumination in industry, with special reference to its use for the examination of moving bodies. J. F. Crowley. il diags Illum Engr 16:189-211 Ag '23
Mr T. Smith's formulæ for oblique focal distance in terms of magnification. A. Everett. Philos Mag 6th ser 47:864-73 My '24
Relation between the focal length of microscopic objectives and the number of fringes seen in convergent polarized light. F. I. G. Rawlins. Philos Mag 6th ser 46:992-3 N '23

See also Aberration; Absorption of rays; Color; Diffraction; Fluorescence; Light; Magneto-optics; Phosphorescence; Photochemistry; Photometry; Radiation; Reflection; Refraction; Refractive index; Sight; Spectrum; Spectrum analysis

OPTICS, Physiological
Helmholtz's treatise on physiological optics. v. 1, 482p Optical society of America (George Banta pub. co., ptrs.) '24
Physiologic optics. M. H. E. Tscherning. 4th ed., rev. & enl. 425p Keystone pub. co., Phila. '24

See also Color sense; Eye; Sight

ORANGE (color)
Orange II. R. Sansone. il Color Tr J 15:130-1 N '24

ORANGE crush company
Orange crush sales jump thousand percent in eight years. A. R. Hahn. Sales Management 9:275-6 S 5 '25

ORANGES
Glucosides of the navel orange. Am Chem Soc J 47:1191 Ap '25
Satsuma orange flourishes on Gulf coast. J. E. Clayton. Manuf Rec 88:71-2 Ag 27 '25
Volatile constituents of Valencia orange juice. J. A. Hall and C. P. Wilson. charts Am Chem Soc J 47:2575-84 O '25

See also Citrus fruit

ORBITS
Central orbits in relativistic dynamics treated by the Hamilton-Jacobi method. G. Temple. Philos Mag 6th ser 48:277-92 Ag '24

ORCHARD heating. See Frost protection.

ORCHESTRA lifts. See Theaters—Orchestra lifts

ORDER blanks
Even the order blank can be made to sell. M. Hastings, jr. Ptr Ink M 10:33+ Je '25
Making the friendly order blank. R. Crothers. Ptr Ink M 11:32 N '25

ORDERS
Organizing the office for speed. G: G. Moody. il System 46:144-6 Ag '24

ORDERS, Signing of
Why not abolish the dotted line? J. A. Worsham. Ptr Ink 132:3-4+ S 17 '25

ORDNANCE
Design of ordnance matériel. J. D. Pedersen. Mech Eng 46:887-90 D '24
Gage problems of the Ordnance department. C. C. Williams. il Am Mach 60:791-3 My 29 '24
Making steel for ordnance use. J. B. Rhodes. Iron Tr R 74:1429-30+ My 29 '24; Same cond. Iron Age 113:1696-8 Je 5 '24
Modern ordnance. C. C. Williams. il J Fr Inst 199:353-80 Mr '25
Some problems in the design of ordnance. J. B. Rose. flow sheet il diags plan Mech Eng 46:774-82 pt 2 N '24

See also Ballistics; Guns (ordnance)

Repair

Mobile ordnance repair shops. C. C. Williams. Am Mach 63:273-4 Ag 13 '25

ORE (term)
Terminology that will not terminate. Eng & Min J 120:522-3 O 3 '25

ORE analysis. See Metallurgical analysis

ORE bins
Design of large suspension bins. H. K. Burch. diags Eng & Min J 118:566-8 O 11 '24

ORE cars
High ratio of revenue load to light weight in ore car equipment. il diags Ry R 76:639-43 Ap 4 '25

ORE deposits
Ahumada lead mine and the ore deposits of the Los Lamentos range, in Mexico. T. A. Rickard. il map plan Eng & Min J 118:365-73 S 6 '24
Angular inclusions and replacement deposits. A. M. Bateman. il diags Econ Geol 19:504-20 S '24; Discussion. 20:293-5, 602-4, 766-7 My, S, D '25
Arsenic deposits near Seattle, Washington. P. C. Stoess. Eng & Min J 118:821-2 N 22 '24
Arsenical ore deposits in the United States. R. H. Sayre. il Eng & Min J 118:929-32 D 13 '24
Carbonaceous matter and metallic ores. Eng & Min J 118:202-3, 982-3 Ag 9, D 20 '24
Commercial possibilities of the magnetite slates of the Cuyuna range. G: A. Thiel. il map Eng & Min J 118:735-8 N 8 '24
Contact effects of gabbro and granite on ore deposition. G. M. Schwartz. Econ Geol 19: 681-4 N '24
Content of metals in intrusive magmas. J. E. Spurr. Econ Geol 19:89-92 Ja '24
Contribution to the igneous geology of central Colorado. R. D. Crawford. map Am J Sci 5th ser 7:365-88 My '24
Cupriferous pyritic deposits, Hitachi mines, Japan. M. Watanabé and W. R. Landwehr. il map Econ Geol 19:434-54 Ag '24
Deformation in ores, Coeur D'Alene district, Idaho. W. A. Waldschmidt. il Econ Geol 20:573-86 S '25
Development of ore deposit theories in Europe. K. Hummel. bibliog Econ Geol 20:495-9 Ag '25
Genesis of igneous ore deposits by J. M. Campbell. Review, by R. B. Sosman. Econ Geol 19:585-9 S '24; Discussion. J. M. Campbell. 20:491-5 Ag '25
Genesis of the Adirondack magnetites. H. L. Alling. bibliog diags Econ Geol 20:335-63 Je '25
Geology and operations of the Magma mine. W. C. Browning and F. W. Snow. il diags Eng & Min J 119:197-201 Ja 31 '25
Geology of the Beatson copper mine, Alaska. A. M. Bateman. diag map plan Econ Geol 19:338-68 Je '24
Geology of the metalliferous deposits. R. H. Rastall. 508p Macmillan '23
Geology of the Verde Central mine. J. L. Fearing, jr. and P. C. Benedict. diags maps Eng & Min J 119:609-11 Ap 11 '25
Ghost of the molten magma. J. V. Lewis. Eng & Min J 118:250 Ag 16 '24
Glacially transported mine. R. T. Walker. Eng & Min J 118:295-6 Ag 23 '24
Gold ores of Grass Valley, California. E. Howe. Econ Geol 19:595-619, pl 10-11; Discussion. 619-22 N '24
Gold veins of sundry areas in the Idaho batholith. F. A. Thomson. il diags maps Eng & Min J 118:533-40 O 4 '24
Great mining adventure; story of the United Verde extension. T. A. Rickard. il Eng & Min J 117:959-63 Je 14 '24

ORE deposits—*Continued*
Intersecting fracture zones and mineral districts. C: A. Porter. maps Eng & Min J 118:650-2 O 25 '24
Magma. H. W. Hixon. Eng & Min J 118:942-3 D 13 '24
Magmatic chalcopyrite, Park county, Montana. T. S. Lovering. il Econ Geol 19:636-40 N '24
Magmatic sulphide ore from Chicagof Island, Alaska. P. F. Kerr. il Econ Geol 19:369-76 Je '24
Marketing of vanadium ores and metal. F. L. Hess. il Eng & Min J 118:694-8 N 1 '24
Mechanics of vein injection. L. S. Ropes. Eng & Min J 118:621 O 18 '24
Mineral reconnaissance in the Philippines. H. Nishihara. il diags maps Eng & Min J 119: 717-24 My 2 '25
Mineralization in the vicinity of Randsburg, California. C. D. Hulin. il maps Eng & Min J 119:407-11 Mr 7 '25
Mining geology. J. V. Lewis. Eng & Min J 119:102-4 Ja 17 '25
Minor crustal movements and ore deposits. C: A. Porter. Eng & Min J 118:781-2 N 15 '24
Mode of formation of the Porcupine quartz veins. E. Y. Dougherty. il diags Econ Geol 20:660-70 N '25
Native copper deposits of the South Atlantic states compared with those of Michigan. T: L. Watson. map Econ Geol 18:732-50; Bibliography. 751-2 D '23
Natural history of the pegmatites. F. L. Hess. il diags Eng & Min J 120:289-98 Ag 22 '25
New kind of metamorphism and its application to the study of ore deposits. A. N. Winchell. Econ Geol 20:642-5 N '25
New theory of origin of ores. J. E. Spurr. Can Chem & Met 8:296 D '24
Ore deposition at Franklin Furnace, New Jersey. J. E. Spurr and J. V. Lewis. il diags map plan Eng & Min J 119:317-28 F 21 '25
Ore deposition at the Creighton nickel mine, Sudbury, Ontario. J. E. Spurr. il Econ Geol 19:275-80 Ap '24
Ore deposits of the Saddle Mountain and Banner mining districts, Arizona. C. P. Ross. diags map plan U S Geol S Bul 771:1-72, pl 1-17 '25
Ore injection at Edwards, New York. J. E. Spurr. il diags map plan Eng & Min J 117: 684-9 Ap 26 '24
Ore injection at the Cananea-Duluth mine. G. J. Mitchell. il diags map Eng & Min J 119:45-8 Ja 10 '25
Ore magmas. J. E Spurr. Eng & Min J 117: 113 Ja 19 '24
Origin of certain rich silver ores near Chloride and Kingman, Arizona. E. S. Bastin. maps U S Geol S Bul 750:17-39 '25
Origin of metallic concentrations by magmation. J. A. Dunn. Econ Geol 19:577-82 S '24
Origin of ore deposits. H: S. Hazlitt. Eng & Min J 117:413 Mr 8 '24
Origin of Wilshire gold ore. H: W. Turner. Eng & Min J 118:172 Ag 2 '24
Paragenesis of marcasite. W. H. Newhouse. il Econ Geol 20:54-66 Ja '25
The pegmatites. J. F. Kemp. Econ Geol 19: 697-723 D '24
Possibilities of the Calico mining district. F. B. Weeks. il map Eng & Min J 119:757-63 My 9 '25
Primary and secondary ores of the Bottino mines, Italy. C. L. Sagui. Econ Geol 19: 542-9 S '24
Problem of the cupriferous pyritic deposits. T. Kato. Econ Geol 20:97-100 Ja '25
Processes in contact metasomatism. P. Geijer. Econ Geol 20:687-90 N '25
Prospecting for disseminated copper by a study of leached croppings. C: H: White. diags Eng & Min J 117:483-8 Mr 22 '24
Rate of secondary enrichment by acid waters. F. F. Grout and H. J. Conhaim. Econ Geol 20:289-91 My '25
Relation of tectonics to ore deposits, and their bearing on Chinese deposits. Chung-Yu Wang. Eng & Min J 118:522-3 O 4 '24
Relationships in mineral deposits in northwestern Manitoba. R. C. Wallace. map Econ Geol 20:431-41 Ag '25
Replacement and folding. P. Geijer. Econ Geol 19:281-5 Ap '24
Sedimentary phases of the Adirondack magnetic iron ores. F. L: Nason. Econ Geol 17:633-54 D '22; Discussion. 17:709-13; 18: 291-6; 19:288-97 D '22, Ap '23, Ap '24
Shattering by replacement. A. Wandke. il Econ Geol 20:605-7 S '25
Silver-lead deposits of Slocan district, British Columbia, Canada. A. M. Bateman. Econ Geol 20:554-72 S '25
Some possible lines of research on ore deposits. F. L. Ransome. Econ Geol 20:485-90 Ag '25
Study of the Sudbury ore deposits. A. Wandke and R. Hoffman. diags Econ Geol 19:169-204, pl 5-6 Mr '24; Discussion. 19:677-81; 20:382-8 N '24, Je '25
Sudbury ore-deposits. J. Park. bibliog Econ Geol 20:500-4 Ag '25
Supergene enrichment of copper below a lean pyritic zone. C: H: White. Econ Geol 19:724-9 D '24
Synopsis of a theory of metallogeny. J. Hereza y Ortuño. Eng & Min J 119:160-2 Ja 24 '25
Tertiary gold-quartz veindike at National, Nevada. J. E. Spurr. Eng & Min J 116:1076 D 22 '23
To help lay the ghost of the molten magma. H. A. Strauss. Eng & Min J 118:422 S 13 '24
Transvaal silver-lead deposit. P. A. Wagner. il map Econ Geol 19:651-67 N '24
Types of magnesite deposits and their origin. G: W. Bain. Econ Geol 19:412-33 Ag '24
Upper Mississippi lead and zinc ores. J. E. Spurr. map Eng & Min J 117:246-50, 287-92 F 9-16 '24
Veins from intrusive magmas with contrasted contents of metals. J. F. Kemp. Econ Geol 18:772-4 D '23
What is a magma? Eng & Min J 120:562 O 10 '25
Zonal precipitation of ores from a mixed solution. M. Watanabé. Econ Geol 19:497-503 S '24

See also Chalcocite; Copper ores; Geology; Gold ores; Iron ores; Lead ores; Mine maps; Mines and mineral resources; Nickel ores; Ores

Bibliography

Geology of prospecting; survey and reports. W. H. Emmons. map Eng & Min J 117:114-15 Ja 19 '24

ORE handling
Coal and ore handling plant at Waalhaven, Rotterdam. il diags Engineer 137:722-5 Je 27 '24
Complete modern ore bin system. il Blast F & Steel Pl 12:43-4 Ja '24
Construction of ore transfer raise of Engels Copper mining co. W. R. Lindsay. il diags plan Eng & Min J 120:219-20 Ag 8 '25
Handling ore traffic at Great Northern docks. A. W. Elmgreen. Ry R 76:910 My 16 '25
Largest ore unloading plant of the Pittsburgh & Conneaut dock co., Conneaut Harbor, Ohio. il Iron Age 114:324-5 Ag 7 '24
Mighty machines at Conneaut Harbor. il Blast F & Steel Pl 12:444-5 O '24
Ore bridge in service at Ashtabula Harbor, Ohio. il Iron Age 115:1653 Je 4 '25; Iron Tr R 76:1381 My 28 '25; Ry Age 79:147-8 Jl 18 '25; Eng & Min J 120:273 Ag 15 '25; Eng N 95:364-5 Ag 27 '25
Twelve-ton electric transporter at Middlesbrough. il diags Engineer 140:350, 358-9 O 2 '25

See also Chute gates

Costs

Ore handling costs over 32 months. W. H. Burr. Iron Age 113:856 Mr 20 '24

ORE handling—*Continued*

Safety devices and measures

Ore and coal bridges made safe. W. G. Hildebran. il Blast F & Steel Pl 13:323-6+ Ag '25; Abstracts. Eng & Min J 120:353-4 Ag 29 '25; Iron Age 116:149-50 Jl 16 '25

Rail stop protects ore bridge. il Iron Tr R 77:137 Jl 16 '25

ORE sampling

Accuracy in sampling metallurgical materials. A. C. Halferdahl. Eng & Min J 118:731-2 N 8 '24; Discussion. T. T. Read. 119:21-2 Ja 3 '25

Commercial practice in sampling and assaying copper. A. M. Smoot. Eng & Min J 120:605-11 O 17 '25

Geologic data in other than copper mines. G. N. Bjorge. Min Cong J 10:343-7 Ag '24

Information obtainable from churn-drill sampling. J. E. Harding. Eng & Min J 117:523-7 Mr 29 '24

New custom sampling plant at Murray, Utah. O. H. Gray. flow sheet il Eng & Min J 120: 245-8 Ag 15 '25

Requirements of an accurate mechanical sampler. R. K. Warner. il Eng & Min J 120:175-7 Ag 1 '25

ORE testing

Minnesota finishes model ore-testing plant at Minneapolis. A. B. Parsons. il Eng & Min J 116:851-3 N 17 '23

See also Assaying; Metallurgical analysis; Ore sampling

ORE transportation

Changes in freight rates affecting California-Nevada ores. P. Wooton. Eng & Min J 120: 190 Ag 1 '25

How the steel industry in the United States has reduced labor costs to the minimum. E: N. Vose. il Dun's Int R 44:41-5+ F '25

Story of steel. il Sci Am 130:162-3+ Mr '24

Transporting ore by airplane. A. Van Muffling. il Eng & Min J 116:797-802 N 10 '23

See also Mine haulage; Ore cars; Ore handling

ORE treatment

Analyzing concentrates graphically; how to construct and use nomographic charts. H. Rose. charts Eng & Min J 120:565-8 O 10 '25

Concentrator snapshots. E. H. Robie. flow sheet il diag Eng & Min J 117:596-601 Ap 12 '24

Design and operation of the United Comstock mill. B. P. Little. il diags Eng & Min J 117:516-22 Mr 29 '24

Design of large suspension bins. H. K. Burch. diags Eng & Min J 118:566-8 O 11 '24

Development of the rotary pipe conveyor. E: W. Davis. il diags Eng & Min J 119:157-9 Ja 24 '25

Development of treatment methods for complex ores. R. G. Hall. Eng & Min J 117: 440-5 Mr 15 '24

Dielectric mineral separation. B. W. Holman. Eng & Min J 119:1047 Je 27 '25

Experimental ore dressing and metallurgical plant of the Colorado school of mines. S. P. Warren. J Eng Educ 15:252-8; Discussion. 258-60 D '24

Federal M. & S. co. earns at high rate. A. B. Parsons. flow sheets il Eng & Min J 120: 421-2 S 12 '25

Hindered settling classification in relation to table concentration of Idaho lead-zinc ores. A. W. Fahrenwald. diag U S Bur Mines Rep of Invest 2618:1-11 Je '24 (typew)

Lack of co-ordination hinders research progress on ore dressing. Can Chem & Met 8:218 S '24

Metallurgical history of the California Rand. M. N. Colman. flow sheets il Eng & Min J 118:175-81 Ag 2 '24

Milling and flotation in 1923. A. F. Taggart. diag Eng & Min J 117:104-6 Ja 19 '24

Milling and flotation in 1924. C: E. Locke. Eng & Min J 119:109-11 Ja 17 '25

Model crushing plant at Douglas, Arizona. G: J. Young. il diags Eng & Min J 120:653-7 O 24 '25

New Copper Queen concentrator. E. Wittenau. il diags plans Eng & Min J 117:836-41 My 24 '24

Operations of the Mesabi iron co. A. B. Parsons. flow sheets il diags Eng & Min J 117: 202-10 F 2 '24

Ore concentration at the Old Dominion. G: J. Young. flow sheet il Eng & Min J 120: 534 O 3 '25

Ore dressing principles and practice. T. Simons. 292p McGraw-Hill '24

Rotary pans—their design and operation. A. V. Eulich. il plan Eng & Min J 119:997-9 Je 20 '25

Screen sizing of coal, ores and other minerals. E. A. Holbrook and T: Fraser. il diags U S Bur Mines Bul 234:1-140, pl 1-23 '25

Shattuck-Arizona mill. G: J. Young. il Eng & Min J 120:612 O 17 '25

Status of research in ore dressing. E. A. Hersam. U S Bur Mines Rep of Invest 2669:1-48 Ja '25; Abstract. Engineering 119:490 Ap 17 '25

Text book of ore dressing. R. H. Richards, C: E. Locke and J: L. Bray. 2d ed. rev. 570p McGraw-Hill '25

United Verde completes model crushing plant. G: J. Young. flow sheet il diags plan Eng & Min J 117:396-400 Mr 8 '24

See also Chloridizing processes; Classifiers; Copper metallurgy; Crushing; Crushing machinery; Cyanide process; Electrometallurgy; Filters and filtration (metallurgy); Flotation process; Gold metallurgy; Gold milling; Hydrometallurgy; Iron metallurgy; Lead metallurgy; Metallurgical plants; Metallurgy; Silver metallurgy; Smelting; Tailings; Tube mills; Zinc metallurgy

ORE valuation. See Mine valuation

ORE washing

Low-grade Arkansas manganese in better demand. T. Shiras. il Eng & Min J 120:187 Ag 1 '25

OREGON

See Hydroelectric plants—Oregon; Mines and mineral resources—Oregon; Petroleum—Oregon; Railroads—Oregon; Wages—Oregon; Water power—Oregon

OREGON institute of technology

Courses in accounting. E: L. Clark. J Account 39:317-18 Ap '25

O'REILLY, Mary M.

First lady of the mint. L: Alexander. por Am Bankers Assn J 16:559-60+ Mr '24

OREODONTOIDES oregonensis

Additional notes on oreodontoides oregonensis. M. R. Thorpe. il Am J Sci 5th ser 7:316-18 Ap '24

ORES

Concerning rich ore. A. S. Cragoe. Eng & Min J 116:949-51 D 1 '23

Concerning rich ore. T. A. Rickard. Eng & Min J 116:358 S 1 '23

See also Carnotite; Copper ores; Geology; Iron ores; Lead ores; Metallurgy; Mineralogy; Mines and mineral resources; Nickel ores; Ore deposits; Ore sampling; Ore treatment; Silver ores

ORGANIC acids. See Acids, Organic

ORGANIC chemistry. See Chemistry, Organic

ORGANIZATION in industry

Audit of process. F. A. Schmidt. il Taylor Soc Bul 10:210-19 O '25

Brennende probleme der betriebsorganisation und ihre natürliche lösung. G. Schlesinger. il diags Zeit Ver Deutsch Ing 68:459-62 My 10 '24

Building tractors under scientific management. G: D. Babcock. il Management & Adm 8:141-6 Ag '24

Business organization from a new viewpoint. E: P. Hyde. Ind Management 68:273-80 N '24

Control through organization and budgets. T: B. Fordham and E: H. Tingley. Management & Adm 6:719-24 D '23

ORGANIZATION in industry—*Continued*
Co-ordinated system of planning, routing, and cost accounting. F: A. Waldron. flow sheet charts Management & Adm 7:39-43, 173-7, 295-7, 427-30; 8:39-42 Ja-Ap, Jl '24
Export functional chart showing the functional divisions of the export organization activities of General Motors. J. D. Mooney. Management & Adm 8:29 Jl '24
Functionalizing a business organization. W. Robinson. charts Harvard Business R 3:321-38 Ap '25
How proper management will promote efficiency. M. Heir. Inland Ptr 75:65-8 Ap '25
How we get uniform output from widely separated plants; Goodyear tire and rubber company. P. W. Litchfield. il Factory 33: 23-5+ Jl '24
How we organize and plan big building operations. L. J. Horowitz. Eng N 94:428-31 Mr 12 '25
Human element in business demands the definite fixing of responsibilities. J. P. Jordan. Prof Eng 10:18-19 Je '25
Lack of good organization causes large percentage of our business failures. J. P. Jordan. Prof Eng 10:13 Jl '25
Maintenance: gearing up both plant and equipment for low-cost production. K. D. Hamilton. Factory 33:498-501+ O '24
Manufacturing procedure simplified. J: R Bangs. Management & Adm 10:149-52 S '25
Mistakes that executives make. C. E. Knoeppel. Ind Management 68:377-82 D '24
New form of organization for Northern Illinois. chart Elec W 83:683 Ap 5 '24
L'organisation du travail dans les grands ateliers de locomotives de la Compagnie du Chemin de fer d'Orléans. M. Bloch. Génie Civil 87:172-4 Ag 22 '25
Organization and methods of the Thayer manufacturing company. J. L. Palmer. Univ J of Business 3:274-304 Je '25
Organization defined. Am Management R 14: 306-8 O '25
Organization for successful operation; work of the industrial executive. B. A. Franklin. Management & Adm 8:513-16 N '24; Same. Paper Tr J 79:51-3 N 13 '24
Organization of modern industry. D. S. Kimball. diags Management & Adm 6:743-9; 7: 45-9 D '23-Ja '24
Organizing a great industrial; tuning up General Motors. C. S. Mott. chart Management & Adm 7:523-7 My '24
Organizing business. J. P. Jordan. Prof Eng 10:5-6+ My '25
Position of the inspection department in an organization manufacturing electrical goods. plan Harvard Business R 3:238-40 Ja '25
Profitable methods for the small factory; organization of departments and functions. G. C. Brown. charts Management & Adm 7:161-7, 305-10 F-Mr '24
Should there be a sales manager for each department? Ptr Ink 128:99-100 Ag 7 '24
Southern furniture plants apply modern management with success. C: F. Scribner. Management & Adm 9:521-4 Je '25

See also Advertising departments; Committees (in management); Credit departments; Drafting room management; Efficiency, Industrial; Employment management; Engineering departments; Factory management; Industrial councils; Industrial management; Safety departments; Sales departments; Statistical departments

ORGANOMAGNESIUM halides. See Grignard reagent

ORGANS
Organ installations in theaters. R. E. Hall. diags plan Arch Forum 42:401-2 Je '25

Advertising
Compiling a catalogue without standard units. I. J. Ketterer. il Ptg Art 45:143-7 Ap '25

Manufacture
When Germany cut the price in two; the Goderich organ company. C. M. Bezeau. Factory 34:605+ Ap '25

ORIENT. See East

ORIENTATION (architecture)
Eastward! S. F. Campbell. Am Inst Arch J 12: 529-30 D '24

ORIENTATION (chemistry)
Orientations of crystals in electrodeposited metals. R. M. Bozorth. il charts diag Phys R 26:390-400 S '25

See also Crystallography; Cyclic compounds; Isomerism; Molecular orientation; Tautomerism

ORIENTATION, Molecular. See Molecular orientation

ORIFICES
Orifice design in sandblast nozzles. L: D. Peik. diags Am Mach 62:311-12 F 19 '25
Steam-flow determination with a thin-plate orifice. E: S. Bristol. diag Power 62:244-5 Ag 18 '25

ORIGIN, Indication of
Foreign labels must indicate origin. Ptr Ink 127:160+ Ap 10 '24
Important tariff interpretations. Ptr Ink 128: 126+ Jl 24 '24
Use of "Printed in the U.S.A." on books and advertising. Ptr Ink 127:105 My 29 '24

ORLANDO, Florida

Water supply
Orlando water and light plant. W. W. Mathews. il Pub Works 56:197-201 Je '25

ORNAMENT. See Decoration and ornament

ORSAT apparatus. See Carbon dioxide recorders

ORTHOFORMATES
New aromatic orthoformates. J: E. Driver. Am Chem Soc J 46:2090-3 S '24

OSBORNE, Thomas B.
Sketch. E. H. Jenkins. por Ind & Eng Chem 17:433 Ap '25

OSCILLATIONS
Coupled cord pendulums. C: H. Lees. Philos Mag 6th ser 48:129-41 Jl '24
Theory of transverse oscillations in girders and its relation to live-load and impact allowances. C: E: Inglis. il Engineering 117: 378-80 Mr 21 '24

OSCILLATIONS (electric currents)
Electrical resonance; some light on surge breakdowns. E. Ambrose and P. B. Frost. Electrician 93:524-5 N 7 '24; Discussion. 93: 555; 94:11 N 14 '24, Ja 2 '25
Klydonograph; an instrument for accurately measuring and recording voltage surges. J. F. Peters. il diags Elec W 83:769-73 Ap 19 '24
Klydonograph records voltage surges on transmission lines. il diags Power Pl Eng 28:728-9 Jl 1 '24
Oscillations and how they are overcome. L. L. Adelman. diags Radio N 6:2083-5 My '25
Oscillations and resonance in systems of parallel connected synchronous machines. H. V. Putman. J Fr Inst 197:603-21, 787-820 My-Je '24
Overdamped condenser oscillations. C: P. Steinmetz. il Am Inst E E J 43:424-8 My '24
Singular case of electron tube oscillations. G. Breit. J Fr Inst 197:355-8 Mr '24
Theorie der lichtbogenschwingungen; abstract. E. Mayer. Elektrotech Zeit 45:219-20 Mr 13 '24
Über die stabilen amplituden angefachter koppelschwingungen; abstract. W. Runge. Elektrotech Zeit 45:726 Jl 3 '24
Valve-generated oscillations in coupled circuits. E. T. Jones. Philos Mag 6th ser 47: 625-47, pl 4 Ap '24

OSCILLATORS
Local oscillation generators; recent Marconi patterns. il Electrician 93:406 O 10 '24

OSCILLATORS, Crystal
Crystodyne principle. il diags Radio N 6:294-5+ S '24
Discovery of the oscillating crystal. G. W. Pickard. diags Radio N 6:1166+ Ja '25
Oscillating crystals. O. V. Lossev. diags Radio N 6:1167+ Ja '25

OSCILLATORS, Crystal—*Continued*
Oscillating crystals for wavemeter calibration. R. G. Harris. diags Radio N 5:1418+ Ap '24
Piezoelectric crystals as radio standards. Radio Serv Bul 90:8-9 O '24
Piezo-electric oscillator. il Sci Am 132:422 Je '25

OSCILLOGRAPHS
Blondel oscillograph. il diags Elec R (Lond) 96:653-4 Ap 24 '25
Messen von schwingungen und drehmomenten mittels des oszillographen. R. Elsässer. bibliog il diags Zeit Ver Deutsch Ing 68: 485-91 My 17 '24
Method for increasing the working range of an oscillograph. C. E. Wynn-Williams. diags Philos Mag 6th ser 50:1-26, pl 1 Jl '25
Oscillograph study of the aluminium valve. F. H. Newman. Philos Mag 6th ser 49:1029-33, pl 11 My '25
Oscillographic study of the current and voltage in a permeameter circuit. W. B. Kouwenhouen and T. L. Berry, jr. diags Am Inst E E J 42:1305-8 D '23; Discussion. 43: 1168-70 D '24
Oscillographs. J. T. Irwin. 164p Pitman '25
The osiso; a single-element oscillograph of camera size. J. W. Legg. il diag Elec J 21: 564-7 D '24
Piezo electric oscillograph. C. B. Bazzoni. il diags Radio N 7:142-3+ Ag '25
Piezo-electric oscillograph. A. B. Wood. diags Philos Mag 6th ser 50:631-7, pl 21-2 S '25
Piezo-electric oscillograph. C. E. Wynn-Williams. diags Philos Mag 6th ser 49:289-313, pl 5 F '25
Polar oscillograms; their application in electrical work—the polar oscillograph. A. G. Beliavsky. diags Electrician 92:38 Ja 11 '24
Primary radio-frequency standardization by use of the cathode-ray oscillograph. G. Hazen and F. Kenyon. il diags U S Bur Stand Sci Pa 489:445-61 '24
Six-element portable oscillograph made possible by a new form of permanent magnet. J. W. Legg. il diag Elec J 22:108-12 Mr '25
Study of time lag of the needle gap. K. B. McEachron and E. J. Wade. il diags Gen Elec R 28:606, 622-33 S '25; Same cond. Am Inst E E J 45:46-52 Ja '26; Discussion. Am Inst E E J 44:1245-7 N '25
Use of an oscillograph in mechanical measurements. H. L. Curtis. il diags Am Inst E E J 44:45-52 Ja '25; Discussion. 44:640-4 Je '25

OSGLIM lamp
On the variation of the extinction voltages of certain types of low tension discharge tubes under different conditions. J. Taylor and W: Stephenson. Philos Mag 6th ser 49: 1081-1103 Je '25

OSGOOD, Farley, 1874-
Portrait. Am Inst E E J 43:574 Je '24

O'SHAUGHNESSY, M. M.
How he made good; some high lights in the career of M. M. O'Shaughnessy. D. L. Reynolds. por Prof Eng 9:14-15+ F '24

OSHKOSH, Wisconsin
Water supply
Reconstruction of Oshkosh water-works. J. S. Hartt. il plan Power 60:802-3 N 18 '24

OSISO. See Oscillographs

OSLO, Norway
Capital of Norway and its change of name from Kristiania to Oslo. Econ W n s 29:7-9 Ja 3 '25
Do you know where Oslo is? Christiania is supplanted by the name the city bore for 600 years. Am Ind 25:37 Ja '25
Housing in Christiania. N. Hammarstrand. il plan Am Inst Arch J 11:431-8 N '23

OSMIUM
Is osmium poisonous? T: A. Wright. Chem & Met Eng 31:743 N 10 '24

OSMIUM tetroxide
Osmium tetroxide as a reagent for the estimation of tannins and their derivatives. C. A. Mitchell. Soc Dyers & Col J 40:193 Je '24

OSMOSIS
Electro-osmotic experiments on the reversal of the electrical charge of colloids and precipitates and the preparation of stable sols with a charge opposite in sign to that commonly obtained. J. N. Mukherjee and B. C. Roy. Chem Soc J 125:476-88 Mr '24
Die industriellen anwendungen der elektroosmose. Elektrotech Zeit 45:440 My 1 '24
Mutual action of charged particles in liquid media. E. F. Burton and J. E. Currie. diags Philos Mag 6th ser 49:194-209 Ja '25
Preparation of membranes with uniform distribution of pores. F. E. Bartell and M. Van Loo. J Phys Chem 28:161-5 F '24
Studies in electro-endosmosis. F. Fairbrother and H. Mastin. diag Chem Soc J 125:2319-30, 2495-2501; 127:322-7 N-D '24, F '25
Tanning with the aid of electricity. R. Ditmar. Chem & Met Eng 31:856 D 1 '24
See also Electrophoresis; Membranes; Solution (chemistry)

OSMOTIC pressure
Osmotic pressure by the solubility method in concentrated solutions. M. P. Applebey and P. G. Davies. Chem Soc J 127:1840-6 Ag '25

OSTRACODA
Upper cretaceous ostracoda from Maryland. E. W. Berry. Am J Sci 5th ser 9:481-7 Je '25

OTHEOGRAPH
Otheograph records locomotive characteristics. P. M. Gillilan. il diag Ry Age 77:283-6 Ag 16 '24
Otheographic records of wheel effects on rails. il diags Eng N 92:441-2 Mr 13 '24

OTTAWA, Ontario
Railroads
Tunnel scheme for Ottawa. Can Eng 47:273-4 Ag 26 '24
Rapid transit
Franchise amendment vote; $1,500,000 to be spent. Elec Ry J 62:986 D 8 '23
Streets
Ottawa memorial drive; the Vimy Way. map Can Eng 48:215 F 10 '25
Water supply
Report on Ottawa water. A. F. Macallum. Can Eng 47:464 O 28 '24

OUTDOOR advertising. See Advertising, Outdoor; Billboards; Posters

OUTDOOR advertising association of America
New organization to guide outdoor advertising industry. Ptr Ink 133:137-8 N 5 '25

OUTDOOR recreation, National conference on. See National conference on outdoor recreation

OUTPUT. See Production—Statistics

OUTPUT of workers
Effect of short time on speed of production. Monthly Labor R 20:67-8 Ja '25
High wages and production. H. V. Roelse. Annalist 22:790 D 17 '23
Hours of work and output. O: Lipmann. Int Labour R 9:481-504; Bibliography. 504-6 Ap '24; Abstract. Monthly Labor R 19:120-4 Jl '24
Labor productivity and costs in certain building trades. E. Stewart. Monthly Labor R 19:945-59 N '24; Abstract. Arch Forum 42: 29-30 Ja '25
Productivity and efficiency of labor. Published in monthly numbers of Monthly labor review
Skill in relation to production. L. A. Legros. Engineering 119:223-4, 272-3 F 20-27 '25

OVEN linings
Corrugating oven sheets. P. J. Schneider. il Mach 31:389-90 Ja '25

OVENS
Design of an industrial baking oven. il diags plan Sheet Metal Worker 15:705-6 O 10 '24
Heat conservation a prime requisite in drying oven design. P. M. Heldt. il diags Automotive Ind 53:517-23 S 24 '25

See also Coke ovens; Core ovens; Electric ovens; Gas ovens; Kilns

OVERALLS
Four ideas that boosted our sales. L. Fleming. Ptr Ink 129:141-2 O 9 '24
Why there's no money in overalls. F. H. Williams. Textile World 66:3710+ D 27 '24

OVERCOATS
Mackinaw top coating fabrics. Textile World 64:3451+ D 8 '23

OVERDRAFTS
Bank allowed to charge overdraft against account in name of depositor's daughter. Bankers M 108:719-22 My '24
How to combat overdrafts. M. D. Miller. Bankers M 109:1081-4 D '24
Law on two checks and an overdraft. A. F. McCarty. Burroughs Clearing House 8:45+ Jl '24
Overdraft of joint depositor. T: B. Paton. Am Bankers Assn J 17:625 Ap '25
To solve the overdraft problem. J. W. Carr. Burroughs Clearing House 8:30+ My '24

OVERDUE accounts. See Collecting of accounts

OVERHEAD expense
Accumulating the overhead. A. V. Bristol. Paper Tr J 78:51-4 Je 19 '24
Afraid of overhead! H. F. Baillet. Dom Eng 109:45 D 6 '24
Cost of doing business. F. H. Baillet. Dom Eng 105:357-9, 567-9 N 24, D 22 '23; 106: 19-20 Ja 26; 39-40+ F 23; 38+ Mr 22; 107: 41-2+ Ap 26; 17-19 My 24; 37-8+ Je 28 '24
Cost of overhead. chart Brick & Clay Rec 66:760-2 My 12 '25; Same. Paper Tr J 81: 59-60 S 24 '25
Cost of overhead. Sanitary & Heat Eng 102: 289-91+ O 31 '24; Same. Sheet Metal Worker 15:791-3 N 7 '24
Costs for executives. N. A. Hall. Ind Management 68:283-6 N '24
Distributing the burden of overhead. H. P. Keller. Foundry 53:580 Jl 15 '25
Distribution of overhead charges in locomotive shops. W. A. Jones. Ry Mech Eng 99: 513-15 Ag '25
Distribution of overhead to jobs. G. C. Brown. Management & Adm 7:683-8 Je '24
Do you include your overhead expense? Dom Eng 106:46 Mr 29 '24
Effect of high overhead charges. Power 58: 813-14 N 20 '23
Establishing overhead standards. R. W. Darnell. Management & Adm 6:755-62 D '23
Expense allocation. A. C. Hodge. Univ J of Business 3:255-73 Je '25
How shall we charge off the overhead? A. G. Vaughan. System 47:755-6 Je '25
How to cut down the overhead. H. L. Wheeler. Inland Ptr 76:53-5 O '25
Methods of 42 manufacturers in distributing expenses to product. C: Reitell. Management & Adm 10:87-92 Ag '25
Modern aspect of burden distribution. N. A. Hall. Ind Management 67:88-9 F '24
O.H.E. on the small job. H. F. Baillet. Dom Eng 111:38 My 2 '25
Overhead and labour costs. Engineer 138:532-3 N 7 '24; Discussion. 138:527, 581 N 7, 21 '24
Overhead and mark-up. Dom Eng 112:37+ Ag 1 '25
Overhead distribution in woolen mills. W. M. Caudell. Textile World 65:3425+ My 24 '24
Overhead during low-volume production. A. F. Stock and J. M. Coffey. Paper Tr J 80: 61-4 My 14 '25
Overhead expense increasing. E. S. Elkus. Credit M 26:22 Ja '24
Overheads on material or labour? Electrician 92:136 F 1 '24
Procedure with respect to compilation and distribution of overhead. Ind Management 68:208-10 O '24
Studies in the economics of overhead costs. J: M. Clark. 502p Univ. of Chicago press, Chicago '23
They include overhead and fool the sheriff. Dom Eng 107:33-4 Ap 19; 17-19 My 17; 108: 37+ Jl 26 '24
Use of budgets in reducing overhead. R. W. Darnell. Paper Tr J 79:60+ N 20 '24
With my small establishment I have practically no overhead. W. D. Stowe. Iron Tr R 77:742-3 S 24 '25; Same. Foundry 53:719-20+ S 15 '25

See also Cost accounting

OVERPRODUCTION
Advertising must sell come-to-market idea to retailers. C. M. Harrison. Ptr Ink 131: 129+ Ap 23 '25
Blame the banker, not the salesman. H. R. Wellman. Nation's Business 13:24-6 N '25
Profits. W: T. Foster and W. Catchings. 465p Houghton '25
Unemployment as a result of overdevelopment of industry. J. J. Davis. Monthly Labor R 21:694-8 O '25

See also Supply and demand

OVERTIME
Hours of labour and overtime rates of pay in the principal industries in Great Britain. Int Labour R 12:74-82 Jl '25

OVERVOLTAGE
Commutator measurements on polarized electrodes. M. Knobel. diag Am Chem Soc J 46: 2613-21 D '24
Concentration and polarization at the cathode during electrolysis of solutions of copper salts. W. L. Miller. il J Fr Inst 199:773-83 Je '25
Dependence of polarisation-overvoltage on hydroxyl- and hydrogen-ion concentration; polarisation-overvoltage of an antimony cathode in aqueous alkaline solution. H: J. S. Sand and E: J. Weeks. Chem Soc J 125:160-8 Ja '24
Effect of pressure on overvoltage. Am Chem Soc J 46:2751-3 D '24
Effect of pressure on overvoltage. S. J. Bircher and W: D. Harkins. Am Chem Soc J 45:2890-8 D '23
Effect of small alternating currents on some polarized electrodes. S. Glasstone. diag Am Chem Soc J 47:940-5 Ap '25
Effect of surface condition on overvoltage. M. Knobel. bibliog Am Electrochem Soc Trans v 47 (preprint 12):139-44 Ap '25
Effect of temperature on overvoltage. M. Knobel and D. B. Joy. diag Am Electrochem Soc Trans v 44 (preprint 3):27-34 S '23; Same. Brass W 20:179-80 My '24
Glasstone's discussion of overvoltage measurement. H: J. S. Sand and E: J. Weeks. Chem Soc J 123:2896-901 N '23
Hydrogen overvoltage of zinc. G: M. Westrip. Chem Soc J 125:1112-21 My '24
Intermittent current electrolysis; overvoltage study of the lead electrode. S: Glasstone. diags Chem Soc J 123:2926-34 N '23
Intermittent current electrolysis; the measurement of overvoltage. S: Glasstone. Chem Soc J 125:250-60 Ja '24
Life period of the overvoltage compounds. E. Newbery. Chem Soc J 125:511-18 Mr '24
Measurement of decomposition potentials. A. L. Ferguson and G. Van Zyl. il plan Am Electrochem Soc Trans v 45 (preprint 26): 337-52 Ap '24
Overvoltage as a function of current density and the effects of time, temperature, stirring, pressure, nature of surface, and of a superimposed alternating current. W: D. Harkins and H. S. Adams. diags J Phys Chem 29:205-19 F '25
Studies of electrolytic polarisation; the cathodic overvoltage of lead. S: Glasstone. Chem Soc J 125:2414-23 N '24
Studies of electrolytic polarisation; the cathodic overvoltage of mercury. S: Glasstone. Chem Soc J 125:2646-56 D '24
Two types of overvoltage and the temperature effect. L: J. Bircher, W: D. Harkins and G. Dietrichson. Am Chem Soc J 46:2622-31 D '24

OVERVOLTAGE (electric lines)
Over-voltage on transmission systems due to dropping of load. E. J. Burnham. il diag Am Inst E E J 44:579-87 Je '25; Same. Gen Elec R 28:509-19 Jl '25; Discussion. Am Inst E E J 44:1022 S '25
La surtension dans les réseaux et les appareils de protection employés. G. Courtois. diags Soc Ing Civils Bul 78:37-57 Ja '25

OWEN, Robert, 1771-1858
Robert Owen. G. D. H. Cole. 267p [bibliog. p. 258-60] Little, Brown and co., Boston '25

OXALATES
Dissociation of certain oxalato-salts. G: J. Burrows and G: Walker. Chem Soc J 123: 2738-42 N '23
See also Sodium oxalate

OXALIC acid
Action of chromic acid on indigo in the presence of oxalic acid. M. L. Eymer. Chemicals (Dyestuffs sec) 17:88-9 O 12 '25
Aqueous pressure of hydrated crystals; oxalic acid, sodium sulfate, sodium acetate, sodium carbonate, disodium phosphate, barium chloride. G. P. Baxter and W: C. Cooper, jr. Am Chem Soc J 46:923-33 Ap '24
Change in duty features oxalic acid market, 1924. Chem & Met Eng 32:135 Ja 19 '25
Chemical and material markets in 1923. Chem & Met Eng 30:108-9 Ja 21 '24
Hydrogen and oxygen electrode titrations of some dibasic acids and of dextrose. H. T: S Britton. Chem Soc J 127:1896-1917 Ag '25
Oxalic acid duty is raised to 6c. a pound. Oil Paint & Drug Rep 107:43 Ja 5 '25
Oxalic acid from wood waste. F. H. E. Preen. Chem Age 32:72 F '24
Oxalic acid in aniline black production; abstract. E. Justin-Mueller. Soc Dyers & Col J 40:425 D '24
Oxalic acid-uranyl sulfate ultraviolet radiometer. W: T. Anderson, jr. and F: W. Robinson. Am Chem Soc J 47:718-25 Mr '25
Photochemical decomposition of oxalic acid in the presence of uranium salts. W. C. Holmes. Am Dyestuff Rep 13:188+ Mr 24 '24
Production costs of oxalic acid figure in tariff hearing. Chem & Met Eng 29:901 N 12 '23

OXFORD, England
Architect's impressions of Oxford. H. F. Kellogg. il Arch Forum 42:219-20, pl 41-4 Ap '25

OXIDATION
Action of some oxidizing agents on sulfite and its determination with iodate. W. S. Hendrixson. Am Chem Soc J 47:1319-25, 2156-9 My, Ag '25
Auto-oxidation of chloroform. A. M. Clover. Am Chem Soc J 45:3133-8 D '23
Auto-oxidation of ethers. A. M. Clover. Am Chem Soc J 46:419-30 F '24
Catalyzed oxidation of galactose. E. O. Whittier. Ind & Eng Chem 16:744-5 Jl '24
Contribution to the chemistry of drying oils. G. W. Ellis. Soc Chem Ind J 44:401-8, 463-8 Ag 7, S 25 '25
Effect of complex formation on oxidation potentials; the influence of the cyanide-ion on the ferrocyanide-ferricyanide potential. J. A. V. Butler and G: P. Davies. Chem Soc J 125:1101-6 My '24
Effect of iron oxide pigments on rate of oxidation of linseed oils. F. H. Rhodes, C. R. Burr and P. A. Webster. Ind & Eng Chem 16:960-2 S '24
Effect of water and of carbon dioxide on the catalytic oxidation of carbon monoxide and hydrogen by oxygen. A. B. Lamb and W. E. Vail. diags Am Chem Soc J 47:123-42 Ja '25
Electrochemical oxidation of aromatic hydrocarbons. F. Fichter. Am Electrochem Soc Trans v 45 (preprint 6):75-95 Ap '24
Electrochemical oxidation of toluene to benzaldehyde. C: A. Mann and P. M. Paulson. bibliog Am Electrochem Soc Trans v 47 (preprint 3):31-42 Ap '25
Electrolytic oxidation of para-nitrotoluene and para-chlorotoluene to their respective acids. R. F. Dunbrook and A. Lowy. diag Am Electrochem Soc Trans v 45 (preprint 7): 97-117 Ap '24
Function of peroxides and peracids in the electrochemical oxidation of organic compounds. F. Fichter. Am Electrochem Soc Trans v 45 (preprint 16):231-54 Ap '24
Induced oxidation of carbohydrates. C. C. Palit and N. R. Dhar. J Phys Chem 29:799-807 Jl '25
Influence of acid concentration on the oxidation-reduction potential of cuprous and cupric chlorides. S. R. Carter and F: M. Lea. Chem Soc J 127:499-510 Mr '25
Limits for the propagation of flame at various temperatures in mixtures of ammonia with air and oxygen. A. G. White. Refrig Eng 12:92-4 S '25
Low temperature oxidation at charcoal surfaces; the behaviour of charcoal in the absence of promoters. E. K. Rideal and W. M. Wright. Chem Soc J 127:1347-57 Je '25
Measurement of oxidation potentials at mercury electrodes; ter- and bivalent titanium. G: S. Forbes and L. P. Hall. diag Am Chem Soc J 46:385-90 F '24
Measurement of susceptibility of fats to oxidation. G. R. Greenbank and G. E. Holm. diag Ind & Eng Chem 17:625 Je '25
Mechanism of the oxidation of typical carbohydrates with hydrogen peroxide and hypochlorous acid. J. Craik. Soc Chem Ind J 43: 171-7 Je 6 '24
New type of reduction-oxidation system; cysteine and glutathione. M. Dixon and J. H. Quastel. Chem Soc J 123:2943-53 N '23
On fusain and its oxidation; studies in the composition of coal. F: V. Tideswell and R: V. Wheeler. Chem Soc J 127:125-32 Ja '25
Oxidation and reduction. H. P. Cady and R. Taft. J Phys Chem 29:1057-74 S '25
Oxidation method for measuring the stability of mineral oils. T. S. Sligh, jr. Am Soc T M Pro 24 pt 2:964-72 '24; Abstract. Power 60:551 S 30 '24; Discussion. Am Soc T M Pro 24 pt 2:973-4 '24
Oxidation number of mineral oils. diags Automobile Eng 15:139-41 My '25
Oxidation of acetomesitylene with permanganate. W: H: Perkin, jr. and R: A. B. Tapley. Chem Soc J 125:2428-37 N '24
Oxidation of banded bituminous coal at low temperatures; studies in the composition of coal. W. Francis and R: V. Wheeler. il Chem Soc J 127:112-25 Ja '25
Oxidation of carbazole by silver oxide. G. E. K. Branch and W. W. Hall. Am Chem Soc J 46:438-45 F '24
Oxidation of carbohydrates with air. H. A. Spoehr. Am Chem Soc J 46:1494-1502 Je '24
Oxidation of ceramic wares during firing. G: A. Bole and F: G. Jackson. Am Cer Soc J 7:163-74, 223-37, 382-96, 427-9, 532-8, 634-42, 656-62 Mr-S '24
Oxidation of Chinese wood oil. F. H. Rhodes and T. T. Ling. Ind & Eng Chem 17:508-12 My '25
Oxidation of copper-nickel alloys at high temperatures. N. B. Pilling and R. E. Bedworth. Ind & Eng Chem 17:372-6 Ap '25
Oxidation of hydrazine; the effect of oxygen on the decomposition of hydrazine; the reactions with ferricyanide in alkaline solution, and dichromate in acid solution. E. J. Cuy and W: C. Bray. Am Chem Soc J 46: 1786-95 Ag '24
Oxidation of hydrazine; the interaction of hydrazine and ferric salt in acid solution. E. J. Cuy. Am Chem Soc J 46:1810-14 Ag '24
Oxidation of hydrazine; the limiting reaction of permanganate and manganic salts in acid solution with hydrazine. E. J. Cuy, M. E. Rosenberg and W: C. Bray. Am Chem Soc J 46:1796-1810 Ag '24
Oxidation of hydroquinone in the presence of aliphatic amines; formation of bis(alkylamino) quinones. R. N. Harger. Am Chem Soc J 46:2540-51 N '24

OXIDATION—*Continued*
Oxidation of substituted 1-benzyl-3:4-dihydro-*iso*quinolines and a synthesis of papaveraldine. J. S. Buck, R. D. Haworth and W: H: Perkin, jr. Chem Soc J 125:2176-85 O '24
Oxidation potentials of ferrous and ferric salts in concentrated hydrochloric acid and phosphoric acid. S. R. Carter and F. H. Clews. Chem Soc J 125:1880-8 S '24
Oxy-calorimeter; principle and application to the determination of energy values of fuels, foods, and excretory products. F. G. Benedict and E: L. Fox. diags Ind & Eng Chem 17:912-18 S '25
Polymerization and oxidation of indene in the vapor phase. R. L. Brown. diag Ind & Eng Chem 17:920-4 S '25
Porous electrode for oxidations or reductions. M. Knobel. Ind & Eng Chem 17:826 Ag '25
Rate of oxidation of nitric oxide. W. A. Patrick and M. Latshaw. Am Inst Chem Eng Trans v 15 pt 2:221-6; Discussion. 226-7 '23
Recent studies on reversible oxidation-reduction in organic systems. M. Clark. Chem R 2:127-78 [bibliog. p. 175-8] Ap '25
Second report of the committee on contact catalysis; catalytic oxidation. W. D. Bancroft. J Phys Chem 27:833-53 D '23; Same. (Reprint & Circ. Ser. 50) p. 833-53 50c National research council, 1701 Massachusetts av, Washington, D.C.
So-called poisoning of oxidising catalysts. C: Moureu and C: Dufraisse. Chem Soc J 127: 1-4 Ja '25
Studies on the ignition of precipitates; the conversion of molybdenum sulfide to oxide, and the volatility of molybdenum trioxide. P. H. M.-P. Brinton and A. E. Stoppel. Am Chem Soc J 46:2454-7 N '24
Studies on the rate of oxidation of nitric oxide; a new method of measuring the velocity of a rapid gaseous reaction. M. Latshaw and W. A. Patrick. diags Am Chem Soc J 47:1201-7 My '25
Studies on the rate of oxidation of nitric oxide; the velocity of the reaction between nitric oxide and oxygen at 0° and 30°. R. L. Hasche and W. A. Patrick. il Am Chem Soc J 47:1207-15 My '25
Studies on the reactions relating to carbohydrates and polysaccharides; the oxidation of cellulose. H. Hibbert and J: L. Parsons. Soc Chem Ind J 44:473-85 [bibliog. p. 485] O 9 '25
Study of the rate of oxidation of certain charcoals. H. H. Lowry and S. O. Morgan. Am Chem Soc J 46:846-52 Ap '24
Sulphur dioxide as an oxidizing agent. W: Wardlaw and N. D. Sylvester. Chem Soc J 123:3417-18 D '23
Temperature control in ammonia oxidation. G. A. Perley and R. P. Smith. Ind & Eng Chem 17:258-60 Mr '25
Third report of the committee on contact catalysis. H. S. Taylor. J Phys Chem 28: 919-23 S '24
Typical analysis of miscellaneous commodities used in foundry practice oxidizing agents. Foundry 52:634a Ag 15 '24
Velocity of oxidation of paraffin wax. F. Francis and others. Chem Soc J 125:381-93 F '24

See also Corrosion and anti-corrosives; Peroxides

OXIDATION, Heat of
Heats of oxidation of carbon monoxide and of hydrogen by manganese dioxide at 0° C. J. C. W. Frazer and C. E. Greider. diag J Phys Chem 29:1099-1104 S '25
Re-determination of the heats of oxidation of certain metals. J. E. Moose and S. W. Parr. diags Am Chem Soc J 46:2656-61 D '24

OXIDATION, Physiological
Induced oxidation and the explanation of the internal use of iron salts and of fever. N. R. Dhar. J Phys Chem 28:943-7 S '24
Induced reactions and diabetes from the viewpoint of induced oxidation. N. N. Mitra and N. R. Dhar. J Phys Chem 29:376-94 Ap '25
Influence of the thyroid gland on oxidation in the animal organism. E: C. Kendall. il Ind & Eng Chem 17:525-34 My '25

OXIDES
Adsorption by precipitates. H. B. Weiser. J Phys Chem 28:1261-2 D '24
Adsorption of vapors by metallic oxides—its bearing on the catalysis of ester formation. J. N. Pearce and A. M. Alvarado. diag J Phys Chem 29:256-70 Mr '25
Negative ion emission from oxide coated filaments. H: A. Barton. Phys R 26:360-3 S '25
α-oxides from aldehydes and carboxylic acids. J. von Braun. Chem Soc J 124 pt 1:1186-7 D '23
Thermionic work function of oxide coated platinum. C. Davisson and L. H. Germer. Phys R 24:666-82 D '24

See also Peroxides

OXIMES
Beckmann rearrangement. A. Lachman. Am Chem Soc J 47:260-5 Ja '25
Influence of dilution on the hydrolytic dissociation of some oxime hydrochlorides. L. B. Tansley. Chem Soc J 123:3164-71 D '23
Isomerism of the oximes; action of picryl chloride and of 2:4-dinitrochlorobenzene on aldoximes. O. L. Brady and L: Klein. Chem Soc J 127:844-52 Ap '25
Isomerism of the oximes; some bromo- and nitro-substituted mono- and di-methoxybenzaldoximes. O. L. Brady and L. B. Manjunath. Chem Soc J 125:1060-8 My '24
Isomerism of the oximes; the action of 2:4-dinitrochlorobenzene on some isomeric aldoximes. O. L. Brady and R: Truszkowski. Chem Soc J 125:1087-96 My '24
Isomerism of the oximes; the action of ultra-violet light on aldoximes and their derivatives. O. L. Brady and G. P. McHugh. Chem Soc J 125:547-54 Mr '24
Isomerism of the oximes; the alleged fourth benzildioxime. O. L. Brady and F: P. Dunn. Chem Soc J 125:291-6 Ja '24
Isomerism of the oximes; the configuration of the aldoximes. O. L. Brady and G. Bishop. Chem Soc J 127:1357-62 Je '25
Isomerism of the oximes; the isomeric *p*-nitrobenzophenoneoximes and their four methyl ethers. O. L. Brady and R. P. Mehta. Chem Soc J 125:2297-2304 N '24
Isomerism of the oximes; 3-nitro- and 3-bromo-*p*-dimethylaminobenzaldoximes. O. L. Brady and R: Truszkowski. Chem Soc J 123: 2434-9 O '23
Oxime of mesoxamide (*iso*nitrosomalonamide) and some allied compounds; structural and stereo-isomerism in the methyl ethers of the *p*-tolyl derivatives. A. Plowman and M. A. Whiteley. Chem Soc J 125:587-604 Mr '24
Sodium hydroxylamine sulfonate as a reagent for the preparation of oximes. W. L. Semon and V. R. Damerell. Am Chem Soc J 46:1290-3 My '24
Tautomerism of dyads; new evidence of the tautomeric mobility of oximes. J: P. Griffiths and C. K. Ingold. Chem Soc J 127:1698-1708 Jl '25

OXINDOLES
N-substituted oxindoles and isatins. R. Stollé and others. Chem Soc J 124 pt 1:1125-7 N '23

OXYACETYLENE apparatus
Automatic, equal pressures, two gas regulator. il Ry Mech Eng 98:769-70 D '24
Chalumeau, système Royer, pour le découpage des tôles dans l'eau. diag Génie Civil 86:267 Mr 14 '25
New type valve for oxygen manifold. il Marine R 54:429 N '24
Oxweld portable acetylene generator. il Power 62:30 Jl 7 '25
Standard hose connections for gas welding. diags Elec Ry J 66:790 O 31 '25; Same. Ry R 77:822 N 28 '25
Welding and cutting torch in the power plant. Power 62:103, 656 Jl 21, O 27 '25

OXYACETYLENE apparatus—*Continued*

Manufacture

Making oxy-acetylene cutting tips. il Mach 31:19-21 S '24
Milburn oxy-acetylene mixing tip. Mach 30: 641-2 Ap '24

Safety devices and measures

Precautions and safe practices in the storage, care and handling of acetylene, and oxygen cylinders. Safety Eng 50:101-7 Ag '25
Safe practices in acetylene and oxygen welding. H. S. Smith. Safety Eng 47:208-13 Ap '24; Same cond. Foundry 52:195-6 Mr 1 '24

OXYACETYLENE cutting

Blowpipe facilitates installation of iron grills. il Sheet Metal Worker 14:990 Ja 18 '24
Burning big steel to pieces. G. O. Carter. il Am Ind 24:31-3 F '24
Cutting heavy gates and risers. il Foundry 53: 802-3 O 1 '25
Cutting process greatly improves foundry practice. il Blast F & Steel Pl 13:177-8 Ap '25; Iron Tr R 76:880 Ap 2 '25; Foundry 53: 306 Ap 15 '25; Iron Age 115:1120 Ap 16 '25
Effect of the heat of oxy-acetylene torch in cutting steel plate. C. H. Crowe. Can Chem & Met 9:37 F '25
Gas cuts bridge into scrap. O. E. Dunlap. il plan Iron Age 115:1637 Je 4 '25
Godfrey oxygen jet cutting machine. il diags Engineering 118:123, 124-5 Jl 25 '24
Oxyacetylene cut does not injure ductility of steel. il Eng N 94:939 Je 4 '25
Oxygen purity and cutting efficiency. J: J. Crowe and G: L. Walker. il Iron Age 115: 824-7 Mr 19 '25; Same. Ry Mech Eng 99:239-41 Ap '25; Same. Engineering 120:28-9 Jl 3 '25
Oxytome metal-cutting machine. il Engineering 117:402, 411-12 Mr 28 '24
Reconditioning old rail. Eng & Contr (G C) 63:829-30 Ap 17 '25
Saving time with an acetylene cutting torch. D: Pearson. il Ry Mech Eng 99:175 Mr '25
Scrapping warships. H. E. Rossell. Marine Eng 29:733-5 D '24; Excerpt. Iron Age 114: 1554-5 D 11 '24
Ship scrapping with oxy-acetylene. il Iron Age 112:1303-6 N 15 '23
Tests structural steel cut by torch. E. E. Thum. Iron Tr R 76:1262 My 14 '25; Same cond. Iron Age 115:1414 My 14 '25; Same cond. Eng & Contr (Bldgs) 64:208 Jl 22 '25

OXYACETYLENE flame

Lead burning with the oxyacetylene flame. Engineering 120:365 S 18 '25
Local heating with the oxy-acetylene flame. T. C. Fetherston. il Gas Age 53:641-2 My 10 '24
New type of oxy-acetylene fusion furnace, with notes on the behavior of refractories at cone 40. A. F. Gorton and W. H. Groves. il Am Cer Soc J 8:768-73 N '25
Producing a good oxyacetylene flame. A. Henkell. Coal Age 27:641 Ap 30 '25
Steel under the oxyacetylene flame. A. S. Kinsey. Iron Age 113:1615-16 My 29 '24
Surface hardening with oxy-acetylene flame. J. F. Springer. Ry Mech Eng 98:36-7 Ja '24

OXYACETYLENE welding

Aluminum and copper fabricated by welding. il Metal Ind 22:108-9 Mr '24
Aluminum oxy-acetylene welded chemical equipment. il Chem Age 31:511-12 N '23
Beiträge zur kenntnis der vorgänge bei der schmelzschweissung von grauguss mittels azetylens. F. Politz. Stahl & Eisen 45:653-8 Ap 30 '25
Bronze welded cast iron pipe joints are practicable. H. Y. Carson. il Gas Age 53:757-60 My 31 '24; Abstract. Foundry 52:469-70 Je 15 '24; Excerpt. Iron Tr R 75:97-8 Jl 10 '24
Bronze welded joints for cast iron pipes. il Gas Age 54:823-5+ D 13 '24; Abstract. Gas J (Lond) 169:140 Ja 21 '25
Bronze welding procedure for cast-iron pipe. Eng N 95:566 O 1 '25
Building and repair of chemical equipment by means of oxy-acetylene welding. Chem Age 32:349-52 Ag '24; Chem & Met Eng 31: 341-6 S 1 '24
Building frames made of oxyacetylene welded pipe. D. C. McGiehan. il diags Eng N 93: 878 N 27 '24
Cast iron welding by the oxy-acetylene process. T: C. Fetherston, comp. 122p Linde air products co., New York '23
Construction of jointless steel smoke-stacks. il Power 61:712 My 5 '25
Cost of welding water mains. il Eng & Min J 120:697-8 O 31 '25
Cutting manufacturing costs by means of the oxy-acetylene blowpipe. G: E. Hagemann. il Management & Adm 8:509-12 N '24
Electric arc and oxy-acetylene welding. E. A. Atkins. 316p Pitman '23
Emergency repair of a cast iron pipe. il Sanitary & Heat Eng 104:181+ S 18 '25
L'état actuel de la soudure autogène et du découpage des métaux. M. R. Thomas. diags Soc Ing Civils Bul 77:182-203, pl 65 Ja '24
Fabricating aluminum stills. F. B. Hill. il Chem & Met Eng 29:921-2 N 19 '23
Fabricating gear guards by welding. il diags Sheet Metal Worker 16:695 O 23 '25
Fabricating steel cylinder heads by the oxy-acetylene torch. il Am Mach 60:314 F 28 '24
Frame repairing. P. T. Lavinder. Ry Mech Eng 99:578-9 S '25
Gas holder seams welded by oxy-acetylene torch. G. O. Carter. il Gas Age 53:69-72 Ja 19 '24
Gas welding of power plant piping in shop and field. A. W. Moulder. diags Gas Age 56:699-700+, 737-9 N 14-21 '25; Same cond. Power 62:741-2 N 10 '25
How long will a welded joint last. il Gas Age 53:834 Je 14 '24
Installing pipe line in mill building. il Sanitary & Heat Eng 104:109 Ag 21 '25
Jigs for sheet metal welding. il diags Sheet Metal Worker 15:710-12 O 10 '24
Large kiln for calcium carbide constructed by oxyacetylene welding. il Concrete 24:sup 42-3 Mr '24
Making strong and tight joints by welding process. H. E. Wetzell. il Sanitary & Heat Eng 102:83-5 Ag 8 '24
New lines for old shops; illustrating the value of the oxyacetylene process. il Sheet Metal Worker 15:211+ Ap 11 '24
One pipe 180 miles long. il Sci Am 132:120 F '25
Oxwelding sheet metal. T. C. Fetherston. il Sheet Metal Worker 16:573-4+ S 11 '25
Oxy-acetylene equipment and increased business. il Sheet Metal Worker 15:999-1000+ Ja 16 '25
Oxy-acetylene equipment for the sheet metal shop. il Sheet Metal Worker 15:535-6+ Ag 1 '24
Oxyacetylene torch used to good advantage in Omaha. il Elec Ry J 65:336-7 F 28 '25
Oxy-acetylene welding in the process equipment field. il diag Chem & Met Eng 31:341-6 S 1 '24
Oxy-acetylene welding of cast iron. C. Coulson-Smith. Chem Age (Lond) 10:[Met sec] 35 My 3 '24
Oxyacetylene welding of cast iron with brass. V. T. Kropidlowski. diags Ry Mech Eng 99: 176-7 Mr '25
Oxy-acetylene welding of copper. C. S. Smith. il Metal Ind 23:360-1 S '25
Oxy-acetylene welding of metal appliances. il Sheet Metal Worker 14:866-7 D 7 '23
Oxyacetylene welding wagon. il Elec Ry J 63: 974-5 Je 21 '24
Pipe welding by acetylene. G. O. Carter. il Eng & Contr (W W) 64:353-5 Ag 12 '25
Pipe welding course given in Cleveland. R. K. Randall. diags Eng & Contr (W W) 62: 579-80 S 10 '24
Possibilities and limitations of fusion welding. il Ry Age 75:1201-2 D 29 '23
Procedure control for oxwelding cast iron heater sections. il Sanitary & Heat Eng 104:136-8+ S 4 '25

OXYACETYLENE welding—*Continued*
Production welding on cylinder blocks. Foundry 52:908 N 15 '24
Quick repair of main by welding. J. J. Bruton. il Eng & Contr (W W) 63:1253-4 Je 10 '25
Repairing ruptured pipe by oxyacetylene welding. diags Coal Age 24:741 N 15 '23; Same. Sanitary & Heat Eng 101:76 F 8 '24; Same. Blast F & Steel Pl 12:139 F '24
Repairing split pipe line by welding. Eng & Contr (R & S) 64:795 O 7 '25
17 years' experience in pipe welding. H. A. Woodworth. il Heat & Ven 22:52-3+ N '25
Training of welding operators. W. J. Meadowcroft. il Am Mach 63:275-7 Ag 13 '25
Two welding jobs. E. B. Lewis. il Ry Mech Eng 98:101-2 F '24
Unique emergency supply line; pipe welded in advance to fit underwater profile. il Eng & Contr (W W) 64:857-8 O 14 '25
Waterwheel buckets built up by welding. il Power 59:397-8 Mr 11 '24
Weld better than a new part; punch press, welded once, broke again at a different point. J. F. Irby. il Iron Age 114:909 O 9 '24; Same. Gas Age 55:120 Ja 24 '25
Welded joints instead of threaded joints. H. E. Wetzell. il Sanitary & Heat Eng 102: 44-5 Jl 25 '24; Same. Heat & Ven 21:46-7 Ag '24; Same cond. Eng & Contr (Bldgs) 62:211-12 Jl 23 '24; Same cond. Manuf Rec 86:111 S 4 '24
Welded pipe installations. Power 61:31, 428 Ja 6, Mr 17 '25
Welded piping in buildings. H. E. Wetzell. Power 60:784 N 11 '24
Welded steel gas main data from Portland, Oregon. R. M. McCalley. il Gas Age 54:425-8+, 463-5 S 27-O 4 '24
Welding as an aid to sheet metal shops. il Sheet Metal Worker 15:371-2+ Je 6 '24
Welding large iron castings with the oxy-acetylene torch. il Elec Ry J 63:245-6 F 16 '24
Welding locomotive frames with bronze. J. H. Chancey. il Ry Mech Eng 99:235 Ap '25
Welding manganese steel by the oxy-acetylene process. B. K. Smith. diag Eng & Contr (Ry) 62:882-4 O 15 '24
Welding on copper fireboxes of locomotives. J. F. Springer. Ry Mech Eng 98:293-4 My '24
Welding steel gas pipe. il Can Eng 47:447 O 21 '24
Welding the pipe lines in ordinary buildings. H. E. Wetzell. il Bldg Age 46:94 S '24
Welding versus silver-soldering. diag Metal Ind 22:353 S '24
Welding with Tobin bronze. I. H. Chancey and W. C. Swift. Am Mach 63:380 S 3 '25

OXYBERBERINE
Synthesis of oxyberberine. W: H. Perkin, jr., J. N. Ray and R. Robinson. Chem Soc J 127:740-4 Mr '25

OXY-CALORIMETER
Oxy-calorimeter; principle and application to the determination of energy values of fuels, foods, and excretory products. F. G. Benedict and E: L. Fox. diags Ind & Eng Chem 17:912-18 S '25

OXYCELLULOSE
Chemical analysis of cotton—oxycellulose. C. Birtwell, D. A. Clibbens and B. P. Ridge. bibliog Textile Inst J 16:T13-52 Ja '25
Modified method for the determination of the copper number (oxycellulose) of bleached pulps. P. D. Bray and Pao Chen Liu. diags Paper Tr J 80:49-53 My 28 '25
Oxycellulose and its tests. Am Dyestuff Rep 14:418-19+ Je 29 '25
Power of an obsolete nomenclature. L: E. Wise. diag Paper 33:508 F 21 '24

OXY-ELECTRIC torch
Under-water cutting of metals with oxy-electric torch proves successful in new applications. il Marine Eng 30:333-4 Je '25

OXYFLUORIDE
Crystal structures of ammonium fluoferrate, fluo-aluminate and oxyfluomolybdate. L. Pauling. Am Chem Soc J 46:2738-51 D '24

OXYGEN
Absorption of oxygen and liberation of carbon monoxide by alkaline pyrogallol solutions. T: J. Drakeley and H. Nicol. Soc Chem Ind J 44:457-62 S 25 '25
Acid corrosion of metals; effect of oxygen and velocity. W. G. Whitman and R. P. Russell. Ind & Eng Chem 17:348-54 Ap '25
Activated graphite as a sorbent of oxygen. D. H. Bangham and J: Stafford. Chem Soc J 127:1085-94 My '25
Application of oxygen in water gas machines. A. Frey. il diag Gas Age 56:613-16+ O 24 '25
Application of oxygen to metallurgical and allied fields. F. W. Davis. Am Inst Chem Eng Trans v 15 pt 2:67-71 '23; Abstract. Iron Tr R 73:1619-20 D 13 '23; Discussion. Am Inst Chem Eng Trans v 15 pt 2:71-80 '23
Coefficients of slip and momentum transfer in hydrogen, helium, air and oxygen. E: Blankenstein. diag Phys R 22:582-9 D '23
Determination of the dielectric constants of five gases by a high frequency method. E. C. Fritts. il diags Phys R 23:345-56 Mr '24
Diffusion of oxygen through silver. F. M. G. Johnson and P. Larose. diags Am Chem Soc J 46:1377-89 Je '24
Effect of ultra-violet light on dried hydrogen and oxygen. H. B. Baker and M. Carlton. Chem Soc J 127:1990-2 S '25
Explosion of acetylene and nitrogen; spectra of explosions of gases containing hydrogen, carbon, nitrogen, and oxygen. W: E: Garner and S. W. Saunders. Chem Soc J 127: 77-82 Ja '25
Explosion of ammonia with carbon monoxide and oxygen. J: W: Beeson and J. R. Partington. diag Chem Soc J 127:1146-50 My '25
Fine structure of the nitrogen, oxygen, and fluorine lines in the extreme ultra-violet. I. S. Bowen and R. A. Millikan. Philos Mag 6th ser 48:259-64, pl 9 Ag '24
Die gewinnung und verwendung von sauerstoffangereicherter luft im hüttenbetriebe. A. Brüninghaus. diags Stahl & Eisen 45: 737-46; Discussion. 746-8 My 14 '25
Heat of adsorption of oxygen by charcoal. E. A. Blench and W: E: Garner. il Chem Soc J 125:1288-95 Je '24
Ignition points of metals in oxygen under pressure. Chem & Met Eng 29:969 N 26 '23
Iron and oxygen. F. S. Tritton and D. Hanson. bibliog il diags Iron & Steel Inst J 110:90-121, pl 5-8; Discussion. 129-43 no 2 '24
Magnetic susceptibility of oxygen, hydrogen and helium. A. P. Wills and L. G. Hector. diags Phys R 23:209-20 F '24
Magnetism of oxygen and the molecule O_4. G. N. Lewis. Am Chem Soc J 46:2027-32 S '24
Motions of electrons in oxygen. H. L. Brose. Philos Mag 6th ser 50:536-46 S '25
New absorbent for oxygen in gas analysis. L: F. Fieser. Am Chem Soc J 46:2639-47 D '24
New method of absorbing oxygen announced by Louis F. Fieser. Power 60:140 Jl 22 '24
Oxygen distribution as a factor in the corrosion of metals. U. R. Evans. diags Ind & Eng Chem 17:363-72 Ap '25
Possible limits for the heat of dissociation of oxygen. O. R. Wulf. Am Chem Soc J 47: 1944-5 Jl '25
Second report of the committee on contact catalysis; effect of oxygen on reduction. W. D. Bancroft. J Phys Chem 27:814-27 D '23; Same. (Reprint & Circ. Ser. 50) p 814-27 50c National research council, 1701 Massachusetts av. Washington, D.C.
Solubility of atmospheric gases in solutions of ammonium chloride. J. H. Coste and E. R. Andrews. J Phys Chem 28:285-6 Mr '24

OXYGEN—*Continued*

Some aspects of oxygen enrichment of combustion air in heating-furnace practice. W. C. Buell, jr. Eng Soc W Pa 41:133-43; Discussion. 144-55 My '25

Temperature-entropy diagrams for nitrogen and oxygen. W. H. Rodebush, J: W. Andrews and J: B. Taylor. diag Am Chem Soc J 47:313-19 F '25

Use of oxygen-enriched air. W. S. Landis. Iron Age 113:848 Mr 20 '24

Use of oxygen in the manufacture of water gas. F. E. Vandaveer and S. W. Parr. il diag Ind & Eng Chem 17:1123-7 N '25

Use of oxygenated air in metallurgy. Iron Tr R 74:619 F 28 '24; Same. Foundry 52:212 Mr 15 '24

Use oxygen to thaw frozen tap holes. A. Weber. Foundry 53:274-5 Ap 1 '25

Die verwendung von sauerstoff und sauerstoffreicher luft bei den frischverfahren. R. Schenck. Stahl & Eisen 45:1596-1602 S 17 '25

See also Oxidation; Ozone; Steel—Oxygen content

Analysis

Die bestimmung des sauerstoffs im eisen. R. Scherer, P. Oberhoffer and others. il diags Stahl & Eisen 45:1555-63 S 10 '25

Colorimetric estimation of small amounts of oxygen. P. G: T. Hand. diags Chem Soc J 123:2573-6 O '23

Estimation of oxygen in pure iron. T. E. Rooney. il diag Iron & Steel Inst J 110:122-8; Discussion. 129-43 no 2 '24

Manufacture

Catalytic electrolytic generation of oxygen. C. G. Fink. Ind & Eng Chem 16:566-7 Je '24

Enriched air blast for metallurgical furnaces. Chem & Met Eng 30:520-1 Mr 31 '24

L'installation pour la production de l'oxygène extrait de l'air, à l'usine de Belval (Luxembourg). diag Génie Civil 86:238-9 Mr 7 '25

Neue bipolarzellen für wasserelektrolyse, ihre konstruktion und ihre charakteristik. F. Petz. il diags Elektrotech Zeit 46:43-5 Ja 8 '25

Oxygen by the liquefaction process. A. G. Wikoff. il diags Chem & Met Eng 30:181-4 F 4 '24

OXYGEN, Liquid

Effect of the temperatures of liquid oxygen explosives on Cordeau-Bickford. D. B. Gawthrop. U S Bur Mines Rep of Invest 2619: 1-5 Je '24 (typew)

Handling liquid oxygen. diag Chem & Met Eng 31:551 O 6 '24

L.O.X. lifts 4500 tons of rock. F. W. O'Neil. il Concrete 25:sup45-7 S '24; Same abr. Eng & Min J 118:16-18 Jl 5 '24; Abstract. Eng N 93:36 Jl 3 '24

Liquid-oxygen explosives. il Iron Age 114:147 Jl 17 '24

Liquid oxygen explosives—further facts. A. James. Eng & Min J 116:1062-6 D 22 '23; Discussion. 117:610-12, 853 Ap 12, My 24 '24

Preparation and use of liquid oxygen. Chem Age (Lond) 10:672-3 Je 28 '24

OXYGEN apparatus

Oxygen-breathing apparatus for aviators. il Engineering 117:506 Ap 18 '24

OXYGEN lance

Open notches with gas lance. E. E. Thum. il diag Iron Tr R 77:749-52 S 24 '25

Opening frozen blast furnace holes; use of oxygen lance. E. E. Thum. il diag Iron Age 116:1244-7 N 5 '25

OXYHYDROGEN cutting

Changing gage on railroad grade crossings. W. L. Whitlock. il Elec Ry J 63:771-2 My 17 '24; Same. Eng & Contr (Ry) 62:1313-14 D 17 '24

Cutting metals with hydrogen gas. H. W. L. Porth. Iron Age 113:298 Ja 24 '24

Unique device facilitates cutting generator shaft by oxy-hydrogen. il Eng N 92:624-5 Ap 10 '24; Iron Tr R 74:1108 Ap 24 '24; Am Mach 60:734-5 My 15 '24

OXYNAPHTHOIC acid

New black azo dyestuffs fast to chlorine from oxynaphthoic acid. Color Tr J 16:32 F '25

New dyestuffs derived from amino-hydroquinone ethers and oxy-naphthoic acid. Color Tr J 16:10-12 Ja '25

Process of making 2-3 oxy-naphthoic acid. Am Dyestuff Rep 13:32-3 Ja 14 '23

OXYTHIONAPHTHEN

Derivatives of 3-oxy(1)thionaphthen. L. R. Hart and S: Smiles. Chem Soc J 125:876-81 Ap '24

OYSTER shells

Cement from oyster shells; large wet process plant near San Francisco. il Chem & Met Eng 31:882-3 D 8 '24

Novel source of raw materials cuts costs; oyster shells for cement. il Management & Adm 9:37-8 Ja '25

OYSTERS

Excess typhoid attributed to shell oysters from one source; preliminary report of United States public health service. Eng N 94:325 F 19 '25

Indicting the oyster industry; editorial. Eng N 94:302-3 F 19 '25

New York legislative committee report on recent excess typhoid. Eng N 94:325 F 19 '25

Sanitary control of the oyster industry. Eng N 94:343, 370, 495 F 26, Mr 19 '25

Advertising

Calamity encourages the oyster industry to advertise. Ptr Ink 132:10+ Ag 13 '25

Oysters trade-marked and advertised to meet buyers' fright. Ptr Ink 130:60+ Mr 19 '25

OZOCERITE

Marketing the natural hydrocarbons. S. D. Kirkpatrick. il Eng & Min J 119:331-2 F 21 '25

OZONE

Action of certain reagents upon ozone. L. I. Smith. Am Chem Soc J 47:1850-3 Jl '25

Action of ozone on hydrocarbons, with special reference to the production of formaldehyde. E. W. Blair, T. S. Wheeler and W. Ledbury. Soc Chem Ind J 43:287-9 S 5 '24

Industrial applications of ozone. F. E. Hartman. il diags Am Soc Heat & V E J 30:711-27 N '24

Laboratory ozonizer yielding high concentrations of ozone. L. I. Smith. diags Am Chem Soc J 47:1844-50 Jl '25

Modern trend in applying ozone to cold storage. F. E. Hartman. il diags Refrig Eng 11: 409-14; Discussion. 414-15 Je '25

New ozone plant purifies air in Central London Ry. tube. diags Eng N 94:321 F 19 '25

New wood-drying process by ozone. il Sci Am 130:335 My '24

Ozone and cold storage. F. E. Hartman. il diag Refrig Eng 11:173-9 N '24

Ozone and its use in ventilation. F. E. Hartman. il charts diag Am Soc Heat & V E J 30:365-82 My '24; Abstract. Heat & Ven 21: 69-71 Jl '24

Photochemical reactivity of ozone in presence of other gases. R. O. Griffith, W: J. Shutt and J. MacWillie. diag Chem Soc J 123: 2752-74 N '23

Relation between the glow of phosphorus and the formation of ozone. W: E. Downey. diags Chem Soc J 125:347-57 F '24; Abstract with discussion. Soc Chem Ind J (Chem & Ind) 43:9-10 Ja 4 '24

Thermal decomposition of ozone. R. O. Griffith and A. McKeown. Chem Soc J 127: 2086-96 S '25

Use of ozone in residence heating. E. S. Hallett. Heat & Ven 22:83 My '25

Bibliography

Ozone in ventilation. Am Inst Arch J 12:45-6 Ja '24

P

PABST corporation
How cheese took place of beer in Pabst selling plan. G. A. Nichols. Ptr Ink 126:25-8 Ja 24 '24

PACHER, Michael
Michael of Bruneck; his masterpiece—the reredos of St Wolfgang's. S. F. Campbell. il Am Inst Arch J 11:454-7 D '23

PACIFIC coast
Westward the course of industry. J: A. Piquet. il Ind Management 69:273-8 My '25

See also California; Electric industries—Pacific coast; Electric plants (central stations)—Pacific coast; Forests and forestry—Pacific coast; Geology—Pacific coast; Hydroelectric plants—Pacific coast; Mines and mineral resources—Pacific coast; Steel industry and trade—Pacific coast

Industries and resources

Pacific's industrial development. Am Ind 24: 34 F '24

PACIFIC coast advertising clubs association
Annual convention, 21st, Fresno, California, May 25-28. Ptr Ink 127:138+ Je 5 '24

PACIFIC coast and inter-mountain newspaper executives
Annual conference, 2d, San Francisco. Ptr Ink 129:137-8 D 4 '24

PACIFIC coast electrical association. See National electric light association—Pacific coast division

PACIFIC gas and electric company
Annual report, 18th, 1923. Comm & Fin Chr 119:86-91 Jl 5 '24
Annual report, 19th, for the fiscal year ended December 31, 1924. Comm & Fin Chr 120: 2420-5 My 9 '25
Attractive public utility stock. Moody's Inv Serv 16:27 Ja 17 '24
Electric distribution network. S. J. Lisberger. il diag maps Elec J 22:268-73 Je '25
Financial conditions. P. W. Garrett. Elec W 85:331+ F 7 '25
Hydro-electric system of Pacific gas & electric company. J. P. Jollyman. il map Elec J 22:274-7 Je '25

PACIFIC mutual life insurance company of California, Los Angeles, Cal.
Annual statements of insurance companies. Econ W n s 27:207 F 9 '24

PACIFIC national agricultural credit corporation. See Agricultural credit

PACIFIC oil company
Annual report, 3d, 1923. Comm & Fin Chr 118: 2717-18 My 31 '24
Annual report, 4th, for year ended December 31, 1924. Comm & Fin Chr 120:2568-9 My 16 '25
Income accounts of the Pacific oil co. of the last four years. Nat Pet N 17:100 Ag 12 '25

PACIFIC safety conference
First Pacific safety conference, San Francisco, April 7-9. Nat Safety N 9:39-40 My '24

PACIFIC states paper trade association
Arguments in Pacific coast paper case. Paper Tr J 77:23 N 29 '23
Does this strike home? findings of Federal trade commission. Paper 33:13-14 F 7 '24

PACIFIC steamship company
Why we made money when nearly everybody said we'd fail. H. F. Alexander. il Marine Eng 30:233-8 Ap '25; Same. System 47:449-55+ Ap '25

PACKAGE dyeing. See Dyes and dyeing—Package dyeing

PACKAGE goods
Better packaging methods. il Management & Adm 9:278-9 Mr '25
Capitalizing past prestige to open new markets; Murphy varnish company. F. Murphy. il Ptr Ink M 10:39-40+ Je '25
Change to package product helps a manufacturer to advertise; Fretz pipe nipples. B. A. Grimes. il Ptr Ink M 10:58+ Ap '25
Combination package that gives dealers five new selling angles. Ptr Ink M 7:106+ D '23
How far can an outside party go in repacking a trade-marked product? Ptr Ink 127:25-6+ Ap 17 '24
Improving the package without losing its identity. il Ptr Ink M 8:33 My '24
Is there any product that can't be packaged? C. B. Larrabee. il Ptr Ink M 10:36-8 Ja '25
Now the tenderloin steak is given a package. Ptr Ink 131:73-4 Ap 2 '25
Our gains from balanced organization; Jewel tea company. M. H. Karker. Factory 34:411-13+ Mr '25
Overcoming dealer resistance to sell three new products; a package idea that sold Fracy line. D. Gridley. il Ptr Ink M 8:25+ Mr '24
Package problem as a factor in sales and profits. C. W. Hamilton. Sales Management 7: 1901-2 D '24
Packages as premiums. A. R. Hahn. il Sales Management 8:737-8+ My 16 '25
Packages that satisfy the foreigner. D. P. De Young. il Management & Adm 9:139-42 F '25
Phenix cheese distributors objected to smaller cartons. C: G. Muller. Ptr Ink 131:25-6+ Ap 30 '25
Putting the package idea into the glassware field. Ptr Ink 126:84+ Mr 13 '24
Sample assortments gain wider distribution for advertisers. Ptr Ink M 10:78+ Ja '25
Shape of your package. R: B. Franken. il Ptr Ink M 11:34-5+ O '25
Size of your package. R: B. Franken. il Ptr Ink M 11:28-9+ N '25
Suit the sales unit to the situation. R. Dickinson. il Ptr Ink M 8:27-8+ F '24
Unusual packages as sales arguments. K. B. White. il Ptr Ink M 8:29 Ap '24
Using the package to simplify the hard-to-pronounce name; Sempre Giovine. C: G. Muller. il Ptr Ink M 11:65-6 Ag '25
Vital information for manufacturers of packaged products; an explanation of slack-filled packages legislation. Ptr Ink 127:142+ Ap 3 '24
When the shipping package smooths the way for the dealer. G. Snow. Ptr Ink M 10: 64+ F '25
Who said it cannot be sold in packages? oranges and grape fruit to be distributed in sealed cartons. Ptr Ink 129:115-16 N 13 '24
Why and how we are merchandising turpentine. N. S. Greensfelder. Ptr Ink 133:95-6+ O 29 '25

See also Canned food; Containers; Labels; Packaging machinery

Advertising

Adding sales value to the sample package. W. Bates. il Ptr Ink M 11:40-1+ Ag '25
American tobacco gets customers to try backward sellers. D. Hubbard. il Ptr Ink M 7: 78+ D '23
Are package inserts worth while? Ptr Ink M 10:116 F '25
Campaigns built almost entirely around packages. Ptr Ink M 10:94+ F '25
Package inserts—versatile allies of your advertising. C. B. Larrabee. Ptr Ink M 7:31-3 D '23
Question of printed inserts in packages of food products. Ptr Ink 126:133-4 F 14 '24
What copy should the package carry? K. B. White. il Ptr Ink M 9:40-2+ S '24

Directions for use

Carton's uses as direction sheet; packaging electric fuses. Ptr Ink 128:120+ Ag 21 '24
More clarity, please, in your package directions. R. Leigh. Ptr Ink 130:93-4+ Ja 29 '25

PACKAGE goods—*Continued*

Manufacture

Controlling the flow of package products by materials handling equipment; assured savings in the B. T. Babbitt plant. J. Mendleson. il plans Management & Adm 7:545-50 My '24

PACKAGE inserts. See Package goods—Advertising

PACKAGE libraries

Package libraries in universities and colleges. A. L. Scott. Lib J 50:689-92 S 1 '25

PACKAGING machinery

Designing automatic packing machinery. A. A. Dowd. diags Mach 31:463-6, 567-71, 723-6, 797-800; 32:42-5 F-Mr, My-Je, S '25

Maschinen für massenverpackung. K. W. Geisler. il diags Zeit Ver Deutsch Ing 69: 917-22, 981-4 Jl 11, 25 '25

Tools of the chemical engineer; filling and labeling small packages. D. H. Killeffer. il Ind & Eng Chem 17:1130-4 N '25

PACKARD motor car company

Every critical test a chance to move ahead—Macauley. O. D. Foster. il Forbes 14:311-13+ Je 7 '24

How we maintain a smooth flow of production. E. F. Roberts. il Factory 33:794-7+ D '24

Packard recommends special service equipment for its dealers. D. Blanchard. il Automotive Ind 51:322-3 Ag 14 '24

Quality manufacturing at predetermined costs. E. F. Roberts. il Factory 33:495-7+ O '24

Report for year ending Aug. 31, 1923. Comm & Fin Chr 117:2105-6 N 10 '23

PACKING

All metal packing for locomotive air pumps. diag Ry R 75:141-2 Jl 26 '24; Ry Age 76: 1410 Je 11 '24

How gas serves in manufacture of metallic packing. H. S. Christman. il Am Gas J 120: 181-2 F 23 '24

Lubrication; abstracts. L. R. Christy. Ry Mech Eng 99:627-9 O '25; Ry R 77:677-8 O 31 '25; Discussion. Ry Mech Eng 99:708 N '25

Machine for oiling waste. il Elec Ry J 63:77 Ja 12 '24

Novel design of metallic packing stands test of time. F. Herle. il diags Power Pl Eng 29: 915 S 1 '25

Packing. J: W. Mabbs. Am Water Works Assn J 12:295-6 N '24

Packing glands for steam turbines. J. Y. Dahlstrand. il diags Power Pl Eng 29:740-1 Jl 15 '25

Packing railway motor bearings for oil lubrication. C. Bethel. il diags Elec Ry J 63: 605-9 Ap 19 '24; Same. Elec J 21:115-18 Mr '24

Reclaiming brake cylinder packing expanders. A. Skinner. il Ry Mech Eng 98:692 N '24

Reclamation of car journal packing. G. C: Hoey. il diags Ry Mech Eng 99:219-21 Ap '25

Record of packing service. Textile World 64: 2879+ N 10 '23

Resistance of packing to fluid flow. F. C. Blake. Am Inst Chem Eng Trans v 14:415-21 '21-'22

Selection of waste for motor bearings. H: S. Day. Elec Ry J 62:864 N 17 '23

Suggestions for packing through stays of boilers. H. A. Jahnke. diag Power 61:837-8 My 26 '25

Testing rack for brake cylinder packing leathers. E. A. Miller. Ry Mech Eng 99: 299-300 My '25

Waste renovating plant at Beech Grove, Ind.; reclaiming journal box packing. il diag plan Ry R 73:931-5 D 29 '23

See also Raschig's rings

PACKING for shipment

All-rubber packing system. T. E. Gjorup. il India Rubber W 71:343-4 Mr '25

Better shipping containers. F. T. Smith. il Management & Adm 9:421-4 My '25

Change in design cuts costs and revives waning demand; floor lamp business of Hergi mfg. co. H. R. Simonds. il Iron Tr R 76: 1117+ Ap 30 '25

Complete course in boxing and crating. Ry R 77:673 O 31 '25; Ry Age 79:862-3 N 7 '25

Eleven packing problems and how they were solved. H. N. Knowlton. il Factory 33:515-19+, 662-4+ O-N '24

Fiber shipping case economies. W: A. Vollmer. il Management & Adm 7:187-93 F '24; Excerpt. Paper 33:23-4 Mr 20 '24

Handling, packing and shipping. Published in System

How acid is packed for shipment abroad. il Chem Age (Lond) 11:316 S 27 '24

Improved packing methods being adopted by American manufacturers. L. O. Welcome. il Dun's Int R 46:49-54 S '25

Making it easy to pack. J. R. Rogers. il Factory 32:550+ Ap '24

Methods of packing for export. C. J. Priebe. il Am Mach 61:237-40 Ag 7 '24

New plant eliminates hand labor; Standard milling company. A. P. Walker. il plan Management & Adm 9:513-18 Je '25

Now we have no repacking costs. J: L. Buchanan. System 47:806+ Je '25

Packed for export. L. O. Welcome. World's Markets 15:14-16 My '24; Same. il Dun's Int R 43:47-51 Ap '24

Packing cement for export. Concrete (cement mill sec) 26:54-5 Ap '25

Packing electrical goods for export. A. Jacob. Elec R (Lond) 96:669-70 Ap 24 '25

Packing for export. C. W. Gerson. Ptr Ink M 10:80+ F '25

Packing for foreign markets. J: F. Keeley. il diags U S Bur For & Dom Com Trade Promotion ser 1:1-439 '24; Excerpts. U S Bur For & Dom Com Trade Information Bul 208:1-29 '24

Packing layout that saves $50,000 a year; Western electric company. C. I. De Witt. System 46:222-3+, 344, 502+, 770+ Ag-O, D '24

Packing tires and tubes for export. J: S. Barker. il India Rubber W 71:338 Mr '25

Practical methods of packing farm machinery for export. W. W. Ramsey. il Dun's Int R 44:42-3+ Ja '25

Progress in packing insulators. il Elec W 85: 999-1000 My 9 '25

Proof of waste in packing. G: W. Johnston. Elec W 84:442-3 Ag 30 '24

Romance in shipping machinery. C. M. Ripley. Elec W 83:210-11 Ja 26 '24

Shipping cars knocked down. il Aera 12:1898-1901 Je '24

Simple device for shipping cars without boxing patented. diag Automotive Ind 51:1088 D 25 '24

Standard boxes for packing bolts. il Iron Age 116:468-70 Ag 20 '25

Vulnerable point in crating. D. S. Sattler. il System 48:220-1 Ag '25

When the shipping package smooths the way for the dealer. G. Snow. Ptr Ink M 10: 64+ F '25

Would standardize bolt packages. Iron Tr R 77:629-30 S 10 '25

See also Boxes; Containers; Crates; Packaging machinery; Shipment of goods

PACKING houses

Activated-sludge experiments on packing house wastes. G. L. Fugate. diag Eng N 94:443-5 Mr 12 '25

See also Beech-nut packing company

Accidents

Accident frequency in the meat packing industry. P. D. Callum. Nat Safety N 10:27-8 D '24

Safety devices and measures

Hazards in meat packing plants. Safety Eng 48:253-5 D '24

PACKING industry
Armour & co. and Swift & co. would void 1920 consent decree. Comm & Fin Chr 118: 1875 Ap 19 '24
Consent decrees still unsettled. Nation's Business 13:58+ Jl '25
Merger of Morris & co., with Armour & co. declared not in restraint of trade. Comm & Fin Chr 121:1419-21 S 19 '25
Packers and the consent decree. T: J. Ross, jr. Am Ind 25:14-16 Ap '25
Packers' consent decree. Index p 10-12 Je '24
Packers' consent decree suspended. Index p 6-8 My '25
Packers look for a good year. O. G. Mayer. Am Ind 25:8 F '25
Packing companies. Moody's Inv Serv 16:157-8; 17:2, 62, 154, 280, 313-14 Ap 17 '24, Ja 2, F 19, My 7, Ag 20, S 24 '25
Packing house industry on improved basis. H. Tefft. Can Chem & Met 9:114 My '25
Packing industry goes to school. W: W. Woods. il Nation's Business 13:46+ N '25
Report urges that packers relinquish refrigerator car lines. Ry R 76:398-9 F 28 '25
Romances of industry—beef. F. E. White. il Am Ind 24:19-23 Jl '24
What and how the meat packing industry buys. Sales Management 9:605-6 O 31 '25
What's wrong with the packers? A. Stote. Ptr Ink 128:77-8+ Jl 3 '24
See also Canned food; Livestock—Transportation; Meat industry and trade; Pork industry and trade; Stock yards; *also* Beechnut packing company; Institute of American meat packers

Employees

Wages and hours of labor in the slaughtering and meat-packing industry, 1923. U S Bur Labor Statistics Bul 373:1-117 '25; Abstract. Monthly Labor R 18:1024-34 My '24

Securities

Short list of attractive bonds of packing companies. Moody's Inv Serv 16:100, 207 Mr 6, 22 '24

PACOLET, South Carolina
How the Pacolet plant rehabilitated its village. A. D. Oliphant. il Textile World 67:852-3 F 7 '25

PAGEANTS
Pageant street lighting. S: G. Hibben. il diag plan Illum Eng Soc 18:938-43; Discussion. 943-8 D '23

PAINE, Sidney Borden, 1856-
Portrait. Elec W 82:1304 D 29 '23

PAINT
Aluminum paint in the factory. J. D. Edwards. Iron Age 115:1715 Je 11 '25; Same. Eng & Contr (Bldgs) 64:483-4 Ag 26 '25
American chemical society; section of paint and varnish chemistry. Chem & Met Eng 30:710-11 My 5 '24
Casein and its industrial applications. bibliog Soc Chem Ind J (Chem & Ind) 44:993 O 9 '25; Same. Can Chem & Met 9:225 O '25
Causes of paint failures. H. C. Mougey. Soc Auto Eng J 14:479-80 My '24
Chemistry of paints, pigments and varnishes. J. G. Bearn. 277p Van Nostrand '23
Colloid chemistry in the technology of oils and fats. N. G. Chatterji. Chem Age (Lond) 10:57 Ja 19 '24
Effect of certain paint films on ultra-violet light. R. L. Hallett. il Am Soc T M Pro 23 pt 2:379-89; Discussion. 390-5 '23
Effectiveness of light paint. E: M. Coffin. Textile World 68:2794 N 7 '25
Electric paint mixer saves time. il Elec Ry J 66:95 Jl 18 '25
L'épaississement des peintures. C: Coffignier. Chimie & Ind 11:1083-5 Je '24
Glass, paints, varnishes and brushes; their history, manufacture and use. 208p Pittsburgh plate glass co., Pittsburgh '23
Glossy vs. mat-finish paints. W. Sturrock. Arch & Bldg 57:27-8 Mr '25
Jellying of asphalt paints. H. C. Fisher. Ind & Eng Chem 16:509-12 My '24
Measurement of the hiding power of paint. Eng & Contr (Bldgs) 63:1148 My 27 '25
Modern maintenance of plant and equipment. W: G. Ziegler. il Ind Management 67:24-31 Ja '24
New data on radiator finishes and their effect on heat transmission. W: H. Severns. il diag Heat & Ven 22:51-3 F '25; Same. Sanitary & Heat Eng 103:321-2+ My 15 '25
New paint discovery by English chemist. Gas Age 56:638 O 31 '25
Oil absorption of pigments. J. H. Calbeck. bibliog il Chem & Met Eng 31:377-82 S 8 '24
Paint and paint specifications. F. H. Nutting. Arch Forum 40:29-32 Ja '24
Paint and the effect of its color. Am Arch 125:262 Mr 12 '24
Paints for railway buildings. Ry R 74:557-9 Mr 22 '24
Paints of high luminosity to reduce refrigeration losses. H. A. Gardner and H. C. Parks. il chart Am Arch 126:457-8 N 5 '24; Same. Ry R 75:1035 D 27 '24; Same. Ry Mech Eng 99:107-8 F '25
Physical and chemical examination of paints, varnishes, and colors. H: A. Gardner. 2d ed. 376p Institute of paint and varnish research, Washington '25
Proper painting as an aid to interior illumination. W. Sturrock. il diag Nat Safety N 9:31-3 Je '24; Same. Nation's Health 6:525-7+ Ag '24
Recent developments in the manufacture and application of nitrocellulose lacquers and enamels. G. E. Condé. Can Chem & Met 8: 219-21 S '24
Research for better paints. F. G. Breyer. Brass W 21:82 Mr '25
Safety paint. Monthly Labor R 20:617 Mr '25
Some optical properties of white paint pigments in the ultra-violet spectrum. A. H. Pfund. diags Am Soc T M Pro 23 pt 2:369-78 '23
Staining paint films. H. L. Maxwell. il Chem & Met Eng 29:964-5 N 26 '23
Study in structure as applied to the paint industry. H: Green. Can Chem & Met 7:285-6 N '23
Study of the paint holding qualities of wood. il Eng & Contr (Bldgs) 62:711 S 24 '24
Temperature of colored building materials. H: A. Gardner. Am Arch 127:96 Ja 28 '25
See also Drying agents; Pigments; Textone; Tung oil; Turpentine substitutes; White lead

Analysis

Microchemistry of white pigments and inerts as they occur mixed in paints. H: Green. diags Ind & Eng Chem 16:677-80 Jl '24
Petroleum ether as an extraction medium. R. G. Myers. Chem Age 33:71-6 F '25; [cont. in] Chem Rec Age 23:9-10 My 11 '25; [cont. in] Chemicals 23:8-9 Je 8 '25

Laws and regulations

British regulations for lead paint on vehicles. Oil Paint & Drug Rep 108:21 S 14 '25
Commentary on legislative matters. Oil Paint & Drug Rep 106:15+ O 29 '24
Report of N.P.O. & V.A. committee on legislation. Oil Paint & Drug Rep 108:23+ N 5 '25
Report of N. P. O. & V. A. legislative committee. Oil Paint & Drug Rep 106:17 O 29 '24

Manufacture

Coloured pigments for paints. O. Wilkins. Chem Age (Lond) 10:355 Ap 5 '24
Driers; simple and compound. E. Perry. Oil Paint & Drug Rep 105:20+ Ja 21; 20+ Ja 28; 20+ F 4; 20+ F 11; 20+ F 18; 20+ F 25; 20+ Mr 3; 20+ Mr 10; 20+ Mr 17; 20+ Mr 24; 20+ Mr 31; 20+ Ap 7; 20+ Ap 14 '24
Manufacture of paint. J. C. Smith. 3d ed., rev. & enl. 306p Van Nostrand '24
Modern developments in paint manufacture. J. G. Bearn. Chem Age (Lond) 13:188-90, 221-3 Ag 22-29 '25
Problems of the paint chemist in the production of white enamels. R. Cowen. Chem Age 31:509-10 N '23

PAINT—*Continued*

Prices

Paint and varnish material. Published in weekly numbers of Oil paint and drug reporter

Specifications

Paint and varnish specifications. H. H. Morgan. Chem Age (Lond) 11:395 O 18 '24

United States government master specification for olive drab paint (semipaste and ready-mixed). U S Bur Stand Circ 165:1-11 '24

United States government master specification for outside white titanium-zinc paint, semipaste and ready-mixed. U S Bur Stand Circ 215:1-12 '25; Excerpt. Oil Paint & Drug Rep 107:21 Je 1 '25

United States government specification for gloss interior lithopone paint, white and light tints. U S Bur Stand Circ 147:1-8 '23

United States government specification for titanium pigment, dry and paste. U S Bur Stand Circ 163:1-11 '24

United States government specification for water-resisting red enamel. U S Bur Stand Circ 146:1-6 '23

Use of United States government specification paints and paint materials. P. H. Walker and E. F. Hickson. U S Bur Stand Tech Pa 274:27-46 '24

See also Painting, Industrial—Specifications

Testing

Directions for the study of electrical insulating varnishes, paints and enamel paints. Inst E E J 62:936-40 N '24

Emissive tests of paints for decreasing or increasing heat radiation from surfaces. W. W. Coblentz and C. W. Hughes. diag U S Bur Stand Tech Pa 254:171-87 '24; Abstract. Am Arch 128:135-9 Ag 12 '25

Importance of position in weather tests. P. H. Walker. Ind & Eng Chem 16:528 My '24

Is testing paint stock a useless innovation? W. O. Quest. Ry Mech Eng 99:693-5 N '25

Microplastometer for studying plastic flow, determining viscosity of liquids, and yield value of paints. H: Green and G: S. Haslam. il Ind & Eng Chem 17:726-9 Jl '25

Paints resistant to sulfide fumes. P. H. Walker and E. F. Hickson. Ind & Eng Chem 16: 1142-3 N '24

Report of sub-committee XXIII on antifouling paints. il Am Soc T M Pro 24 pt 1:491-504 '24

Report of the A.R.A. mechanical division committee on tests. Ry Mech Eng 98:627-8; 99:695-7 O '24, N '25

Some aspects of the testing of paints. J. J. Fox. Soc Chem Ind J 44:30-2 Ja 16 '25

Some observations on aluminum paints. P. H. Walker and E. F. Hickson. il Chem & Met Eng 31:693-6 N 3 '24

Some special properties of aluminum paint. J. D. Edwards and R. I. Wray. Ind & Eng Chem 17:639-40 Je '25

PAINT, Artists'

Artists' colours. P. May. Chem Age (Lond) 12:500 My 23 '25

PAINT, Protective

Aluminum paint for coating tanks. Brass W 20:68 F '24

Aluminum paint for outside work. J. D. Edwards. Chem & Met Eng 29:927 N 19 '23

Coal industry has awakened to the value of paint. A. F. Brosky. il diag Coal Age 25: 901-6 Je 19 '24

Does paint preserve wood? H. D. Tiemann. il Sci Am 130:314-15 My '24

Effect of tank colors on evaporation losses of crude oil. L. Schmidt. U S Bur Mines Rep of Invest 2677:1-7 Mr '25 (typew); Excerpts. Pet Age 15:42+ Ap 15 '25

Further studies of the physical properties of drying-oil, paint and varnish films. H. A. Nelson and G: W. Rundle. il Am Soc T M Pro 23 pt 2:356-68 '23

How paint preserves wood. il Sci Am 132:283 Ap '25

New aluminum-graphite paint for metal work. Eng & Min J 120:593 O 10 '25

New ideas make painting at mines more effective. F. L. Adams. il Coal Age 27:671-4 My 7 '25

New lead paint. R. Ditmar. Chem & Met Eng 31:775 N 17 '24

Paint as a protective coating for steel. F. H. Rhodes. Sibley J 39:334-5 My '25

Paint as a rust preventative. R. C. Sheeler. il Ind Management 68:229-32 O '24; Same. Gas Age 54:891-3 D 27 '24

Paint will prevent decay. Ry R 77:569 O 10 '25; Discussion. 77:603 O 17 '25

Paints and painting for structural steel. H. L. Maxwell. Munic Eng 67:139-41 Mr '24

Points to consider when painting exposed sheet-metal work. D. A. Hampson. Ind Eng 83:394 Ag '25

Protective paint coatings; discussion. Soc Chem Ind J (Chem & Ind) 43:1210-11; 44: 27-32 D 5 '24, Ja 16 '25; Chem Age (Lond) 11:576 D 6 '24

Report of sub-committee XXIII on antifouling paints. il Am Soc T M Pro 24 pt 1:491-504 '24

Results of preservative paint tests. Elec W 86:751 O 10 '25

Suggestions on roof paint. A. Eyles. Sheet Metal Worker 15:948+ Ja 2 '25

Tests show cutting of crude loss possible by using proper tank paint. Nat Pet N 17:36-8 Ap 8 '25

See also Corrosion and anti-corrosives; Metal protection

Testing

Scientific pioneering in determining the protective properties of paint. W. T. Pearce. il Chem & Met Eng 30:463-7 Mr 24 '24

PAINT brushes

Chinese bristles mostly used in paint brushes. C. T. Mason. Am Exporter 94:62+ Je '24

Simplification schedule of paint and varnish brushes. Oil Paint & Drug Rep 108:57-8 N 5 '25

Something about paint brushes. P. Alegre. il Am Exporter 95:13-14+ O '24

PAINT factories

Employees

Necrosis of the jaw in workers employed in applying a luminous paint containing radium. W: B. Castle and others. J Ind Hygiene 7:371-82 [bibliog. p. 381-2] Ag '25; Abstract. Monthly Labor R 21:1091-3 N '25

Power

Central-station power for paint factory. F. A. Westbrook. il Elec W 85:1267-8 Je 13 '25

PAINT industry and trade

Building a sales plan around a display rack. J: H. Stutt, jr. Ptr Ink 128:113-14 S 18 '24

Dealers surprise manufacturers by wanting shorter lines. Ptr Ink 127:61-2 My 8 '24

Foreign markets for paints and paint materials. W: M. Taylor. U S Bur For & Dom Com Trade Information Bul 164:1-26 '23

How creative selling opened a new channel of distribution; lumber dealers take to quantity selling of paint. A. Belden. Ptr Ink 127:41-2+ My 29 '24

How Sherwin-Williams awakens a latent market. Ptr Ink 126:118 Ja 3 '24

How to simplify a topsy-turvy line of products; Bennett glass & paint co., of Salt Lake City. Ptr Ink 127:61-2+ Ap 10 '24

Installment plan enters the building field. il Brick & Clay Rec 66:505-6 Mr 31 '25

Instalment selling on trial in the paint industry. R. Cole. Ptr Ink 132:105-8 Jl 16 '25

Paint and varnish simplification plan adopted at Washington conference. Oil Paint & Drug Rep 105:19 Mr 17 '24

PAINT industry and trade—*Continued*
Paint, varnish markets are analyzed by U.S. Oil Paint & Drug Rep 108:22+ Ag 24 '25
Paint-varnish trade opportunities abroad. M. Toch. Oil Paint & Drug Rep 108:45+ N 5 '25
Producer and his sales problems in relation to wholesaler, retailer and consumer. J: C. Frazee. Ann Am Acad 115:190-8 S '24
Putting new life into an old business; Devoe & Raynolds co. J: A. Murphy. Ptr Ink 131: 3-4+ Je 18 '25
Save the surface takes deferred payment stand. Oil Paint & Drug Rep 108:21+ S 21 '25
Time payment plan is applied to painting of homes. Bldg Age 47:140+ F '25
Time-payment plan to double paint sales by 1926. Ptr Ink 130:56 Ja 29 '25
See also Paint—Prices

Advertising

Dealer broadsides that break down sales resistance; Briggs-Maroney paint. J: Briggs, jr. Ptr Ink M 11:114+ N '25
Direction advertising or advice advertising? Ptr Ink M 10:86+ F '25
Du Pont goes after industrial paint contracts. R. Perry. Ptr Ink 126:157-8+ Mr 13 '24
Exporting paint to Mars. O. C. Harn. Oil Paint & Drug Rep 105:20 My 26 '24
Fewer calls to get new dealers. B. A. Fueglein. Ptr Ink M 9:82+ Ag '24
Honey-combing the home-town market. Ptr Ink 128:36+ S 25 '24
How paint industry chose "save-the-surface" as its slogan. F. J. Ross. Ptr Ink 126:100+ F 14 '24
Outdoor sellers go inside for business during bad months. E. B. Weiss. Ptr Ink M 7:50+ D '23
Report of N. P. O. & V. A. National clean up and paint up campaign committee and of the Save the surface committee. Oil Paint & Drug Rep 106:27+ O 29 '24; 108:33+ N 5 '25
Time-payment plan stimulating extra advertising. M. Hastings, jr. Ptr Ink 130:57-8 Mr 19 '25
To make advertising technically accurate; how bureaus and laboratories of the U.S. government are working. Ptr Ink 132:53-4+ Jl 30 '25
When scientists split hairs advertisers should run. J: A. Murphy. Ptr Ink 133:85-6 O 1 '25

Canada

Business outlook in Canada from the standpoint of the paint and varnish industry and kindred lines. J. J. Riley. Can Chem & Met 8:115 My '24

China

Paint making in China. Oil Paint & Drug Rep 106:20 D 29 '24

United States

Domestic market possibilities for sales of paints and varnishes. G: H. Priest, jr. maps U S Bur For & Dom Com Domestic Commerce Ser 2:1-27 '25
Notable year in the paint industry. Chem & Met Eng 32:104-5 Ja 19 '25
Paint and varnish materials: market review. Oil Paint & Drug Rep 105:65-7 Mr 20 '24
Paint and varnish materials; market review. Oil Paint & Drug Rep 107:64-7 Mr 26 '25
Paint and varnish production in 1923 showed steady gain over previous years. Oil Paint & Drug Rep 105:20 Mr 31; 106:52a D 15 '24
Paint and wallpaper trades. Dun's R 32:8-9 Ja 5; 9+ My 3; 8-9 Ag 30; 8-9 D 27 '24; 33: 8-9 Ap 4; 8-9 Ag 1 '25
Paint output in first half of 1925. Oil Paint & Drug Rep 108:22+ O 5 '25

West Indies

Paints, pigments, and varnishes in the West Indies. U S Bur For & Dom Com Trade Information Bul 341:1-43 '25

PAINT manufacturers' association of the United States
Annual meeting, 25th, Atlantic City, Oct. 17-18. Oil Paint & Drug Rep 106:71-5 O 29 '24
Annual convention, 26th, Cleveland. Oil Paint & Drug Rep 108:43 O 26; 87-9 N 5 '25

PAINT, oil and varnish club of New York
Meeting, November 13. Oil Paint & Drug Rep 106:20 N 17 '24
Meeting, March 12. Oil Paint & Drug Rep 107:19 Mr 16 '25
New York paint club condemns tactics of prohibition officials. Oil Paint & Drug Rep 106:20+ S 15 '24

PAINT removal
Taking off old paint and varnish. A. A. Kelly. Bldg Age 46:108 Mr '24
See also Metal cleaning, Electrolytic

PAINT spraying
Celluloid enamels air-sprayed, finish bodies in four days. il Bus Transportation 3:517-18 N '24
Coal industry has awakened to the value of paint. A. F. Brosky. il diag Coal Age 25: 901-6 Je 19 '24
Hoods and cabinets for spray painting. R. C. Nason. diags Sheet Metal Worker 16:409-10 Jl 3 '25
Improved window guard for spray painting. J. H. Lucas. il Elec Ry J 65:612-13 Ap 18 '25
Machine painting in surface coating. C. C. Fredericks. Oil Paint & Drug Rep 106:62-3 O 29 '24
Mechanical painting as a labor saver on railroad work. C. C. Fredericks. Eng & Contr (Ry) 62:391-3 Ag 20 '24
Modern machine painting. A. A. Kelly. il Bldg Age 47:148+ S '25
Modernizing car painting methods. H. T. Hurlock. il Elec Ry J 65:967-70 Je 20 '25; Same. Aera 13:1985-92 Jl '25
Painting dash signs by spray method. il Elec Ry J 66:211 Ag 8 '25
Portable mechanical painting equipment. il Ry Mech Eng 98:368-9 Je '24
Possibilities of mechanical painting. J. W. Gibbons. il Ry Mech Eng 98:360-2 Je '24
Progress of spray-painting movement. R. W. Wells. Oil Paint & Drug Rep 108:31 N 5 '25
Putting on paint without brushing. il Factory 32:836-9+ Je '24
Quick painting of railway buildings by spray method. Eng & Contr (Ry) 61:850-1 Ap 16 '24
Removing and preventing rust in penstocks. G: H. Bragg. Elec W 83:239-40 F 2 '24; Same cond. Eng N 92:163 Ja 24 '24
Report of N. P. O. & V. A. committee on spray painting. Oil Paint & Drug Rep 106: 60-1 O 29 '24; 108:71-2 N 5 '25
Simplified color scheme aids spray painting. il Elec Ry J 64:929 N 29 '24
Some precautions needed for good spray painting. D. O'Brien. Elec Ry J 63:151-2 Ja 26 '24
Spray printing helps engineers to reduce costs. R. W. Tripp. il Eng N 95:447-8 S 10 '25

Cost

Cost of paint versus cost of painting. H. W. Beach. il Eng & Contr (Bldgs) 60:1352-4 D 26 '23
Waterproofing a highway bridge; methods and costs of air brush work. il Eng & Contr (R & S) 63:1193-6 Je 3 '25

Safety measures

Saving the surface and the spray-gun painter. C. T. Fish. Nat Safety N 11:18+ Ap '25

PAINTERS, Industrial
Outdoor sellers go inside for business during bad months. E. B. Weiss. Ptr Ink M 7:50+ D '23
Painter apprenticeship system. J. W. Gibbons. Ry R 77:530 O 3 '25

PAINTERS, Industrial—*Continued*
Painters' and paper hangers' strike in the District of Columbia. Monthly Labor R 21: 188-90 Jl '25
Painters, decorators, and paper hangers, New York city; labor agreement. Monthly Labor R 21:555-6 S '25
Painters, decorators, and paper hangers, Pittsburgh; labor agreement. Monthly Labor R 18:1290-1 Je '24

Diseases and hygiene

Acute dermatitis among painters employed in an industrial plant. J. A. Turner. J Ind Hygiene 7:293-8 Jl '25
Trade unions study to conserve the worker's health. G. M. Burnham. il Nation's Health 6:4-5 Ja '24

PAINTING, Decorative
Paint as an element of decoration. il Am Arch 127:269-74 Mr 25 '25

See also Mural painting and decoration; Paint

PAINTING, Industrial
All sorts of ways to lower paint costs. C: A. Geiger. il Factory 34:444 Mr '25
Coal industry has awakened to the value of paint. A. F. Brosky. il diag Coal Age 25: 901-6 Je 19 '24
Handling material in painting department. E. T. Bennington. il plan Iron Age 113:1413-16 My 15 '24
House painting methods with the brush and spray gun. F. N. Vanderwalker. 382p F. J. Drake & co., Chicago '25
Improved methods for painting. il Factory 34:816+ My '25
Maintenance: gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 34:586-91+ Ap '25
Measuring work for painting. A. A. Kelly. Bldg Age 47:154 Je; 120+ Ag '25
Mechanical painting of industrial plants. K. Richards. il Ind Eng 83:173-7 Ap '25
Modern maintenance of plant and equipment. W: G. Ziegler. il Ind Management 67:24-31 Ja '24
New economies in painting factory interiors. S. A. Dobyne. il Factory 35:456+ S '25
New methods that have lowered our painting costs. E. J. G. Phillips. il Factory 32:370+ Mr '24
"Paint up" has cash meaning in mine towns. F. L. Adams. il Coal Age 27:603-6 Ap 23 '25
Painters' and decorators' materials. R. W. Cooper. 157p Spon '23
Painting store fronts and interiors. A. A. Kelly. Bldg Age 46:102+ Je '24
Painting trade hand-book. A. A. Kelly. 165p McKay '25
Practical painting and paper hanging in all its branches. C: L. Young. 414p Century co. '24
Problem of painting and finishing. L. Lewis, jr. Am Arch 127:335-8 Ap 8 '25
Proper painting superintendence and its relation to results. W. C. Woodyard. Am Arch 127:553-5 Je 17 '25
Putting on paint without brushing. il Factory 32:836-9+ Je '24
Putting plant painting on a simplified basis. R. C. Sheeler. il Factory 32:224+ F '24
Standardization of painting practice. R. C. Sheeler. il Ind Management 68:25-8 Jl '24
We cut our painting costs 33%. G: I. Hamilton. Factory 32:112+ Ja '24
We use machinery to paint better at less cost. L. E. Myers. il Factory 34:978+ Je '25
Wirtschaftlichkeit beim anstrich von eisenbauwerken. Hülsenkamp. Zeit Ver Deutsch Ing 68:1006-7 S 20 '24

See also Automobiles—Painting; Bridge painting; Car painting; Chimneys, Iron and steel—Painting; House painting; Machinery—Painting; Motor buses—Painting; Paint; Paint spraying; Ships—Painting; Sign painting; Varnish and varnishing; *also* American railway association—Equipment painting section

Cost

Cost of paint versus cost of painting. H. W. Beach. il Eng & Contr (Bldgs) 60:1352-4 D 26 '23
Labor productivity and costs in certain building trades. Monthly Labor R 19:948, 957 N '24; Excerpt. Arch Forum 42:30 Ja '25

Estimates

Estimating painting of buildings. A. A. Kelly. Bldg Age 47:154 Ja '25

Specifications

Outline of tentative specifications for painting. Am Arch 125:sup16+ Ap 23 '24
Painting specifications. A. A. Kelly. Eng & Contr (Bldgs) 61:665-6 Mr 26 '24
Painting specifications and their relation to results. W. C. Woodyard. Am Arch 127: 474-6 My 20 '25
Specifying the painting and finishing work. J. C. Bollenbacher. Am Arch 128:117-18 Jl 29 '25

See also Paint—Specifications

PAINTING, Structural
New ideas make painting at mines more effective. F. L. Adams. il Coal Age 27:671-4 My 7 '25
Painting building materials to reduce temperature and water absorption; abstract. H. A. Gardner. Soc Dyers & Col J 40:386 N '24

See also Bridge painting; Locomotives—Painting; Paint, Protective; Ships—Painting

Testing

Preparation of iron and steel surfaces for paint. il Ry R 75:166-73 Ag 2 '24
Report of sub-committee XIV on preparation of iron and steel surfaces for painting. il Am Soc T M Pro 24 pt 1:466-76 '24

PALACES
Details of a Louis XVI salon at Fontainebleau. il plans Arch Forum 42:121-6 F '25
Forum studies of European precedents; the Palace of Fontainebleau. il Arch Forum 42:96a-h F '25

See also Compiègne, Palace of

PALEOBOTANY
Extinct plants and problems of evolution. D. H: Scott. 240p Macmillan '24
Flora of the Ripley formation. E: W. Berry. diags maps U S Geol S Prof Pa 136:1-94, pl 1-23 '25
Mesozoic plants from Patagonia. E: W. Berry. Am J Sci 5th ser 7:473-82 Je '24
Oligocene cashew nut from South America. E: W. Berry. il Am J Sci 5th ser 8:123-6 Ag '24
Quantitative studies of the Bridge Creek flora. R. W. Chaney. Am J Sci 5th ser 8:127-44, pl 5-6 Ag '24

See also Coal balls; Flowers, Fossil

PALEOCLIMATOLOGY
Climatologic significance of annual rings in fossil woods. E. Antevs. Am J Sci 5th ser 9:296-302 [bibliog. p. 300-2] Ap '25
How fossil plants tell the secrets of the earth's early climate. D: White. Sci Am 132:409+ Je '25
Late paleozoic climates. A. P. Coleman. Am J Sci 5th ser 9:195-203 Mr '25

PALEONTOLOGY
Micro-paleontology ultra scientific but of commercial value. P. Wagner. il Nat Pet N 16: 85+ Jl 16 '24
Outlines of palæontology. H. H. Swinnerton. 420p Edward Arnold & co., London '23
Pleistocene of the middle region of North America and its vertebrated animals. O. P. Hay. 385p Carnegie institution of Washington, Wash. '24
Tertiary fossils dredged off the northeastern coast of North America. W: H. Dall. Am J Sci 5th ser 10:213-18 S '25

See also Ammonites; Paleobotany; Vertebrates, Fossil

PALEONTOLOGY—*Continued*

Alberta

Kinderhook fauna from Nordegg, Alberta. P. S. Warren. Am J Sci 5th ser 10:448-50 N '25

California

Contribution to the paleontology of the Martinez Eocene of California. R: N. Nelson. Univ Calif Pub Bul Dept Geol v 15, no 11:397-466, pl 49-61 '25

Fauna and stratigraphic relations of the Tejon Eocene at the type locality in Kern county, California. F. M. Anderson and G. D. Hanna. 249p California academy of sciences, San Francisco '25

Ellesmere Land

Early collection of paleozoic fossils from Ellesmereland. E. Kirk. Am J Sci 5th ser 10:445-7 N '25

Kansas

Kansas Permian insects. C. O. Dunbar. diags Am J Sci 5th ser 7:171-208, pl 1-2; Bibliography. 208-9 Mr '24

Oregon

New species of extinct peccary from Oregon. M. R. Thorpe. bibliog il Am J Sci 5th ser 7:393-7 My '24

Texas

Fossiliferous marine Wilcox in Texas. J. A. Gardner. Am J Sci 5th ser 7:141-5 F '24

PALESTINE

See Electricity supply—Palestine; Hydroelectric plants—Palestine; Roads—Palestine; Trade unions—Palestine; Water power—Palestine

PALISADES road

Highway parallels Hudson river along top of Palisades. il diags map Eng N 95:508-10 S 24 '25

PALLADIO, Andrea

Some notes on Palladio, his times, and his church of the Redentore. J. Chillman, jr. il Am Inst Arch J 11:467-72 D '23

PALLADIUM

Consumption of the platinum metals. J. L: Howe. Eng & Min J 118:13-15 Jl 5 '24

Palladium and rhodium discovery; occurrence proved in British Guiana. Chem Age (Lond) 10:624 Je 14 '24

Promoting action of palladium on copper; catalytic combustion. W: W. Hurst and E. K. Rideal. Chem Soc J 125:685-94 Mr '24

Promoting action of palladium on copper; the adsorption of hydrogen and carbon monoxide. W: W. Hurst and E. K. Rideal. diag Chem Soc J 125:694-705 Mr '24

Analysis

New method of determining palladium. H. E. Zschiegner. Ind & Eng Chem 17:294 Mr '25

PALLADIUM chloride

Researches on residual affinity and co-ordination; interactions of trimethylstibine and platinic and palladous chlorides. G. T. Morgan and V: E. Yarsley. diag Chem Soc J 127:184-90 Ja '25

PALLADIUM oxides

Platinum and palladium oxides as catalysts in the reduction of organic compounds; the reduction of olefins. J. W. Kern, R. L. Shriner and R. Adams. Am Chem Soc J 47:1147-58 Ap '25

Preparation of palladous oxide and its use as a catalyst in the reduction of organic compounds. R. L. Shriner and R. Adams. Am Chem Soc J 46:1683-93 Jl '24

PALM BEACH, Florida

Development of the Palm Beaches. il Manuf Rec 86:484-5 pt 2 D 11 '24

Architecture

Spanish influence at Palm Beach; the houses of A. Mizner and W. S. Kingsley. il plans Arch Forum 41:73-6, pl 25-8 Ag '24

PALM oil

Chemical and material in 1923. Chem & Met Eng 30:119 Ja 21 '24

Fatty acid constituents of some natural fats; palm kernel oil. E. F. Armstrong, J: Allan and C: W. Moore. Soc Chem Ind J 44:143-4 Ap 3 '25

Oil palm in the East Indies. Chem Age (Lond) 12:308 Mr 28 '25

Palm-oil extracting and kernel-separating plant for Nigeria; British Empire exhibition. diags Engineering 118:513-14, pl 54-5 O 10 '24

PALMITIC acid

Latent heats of fusion; palmitic acid and benzene. K. Stratton and J. R. Partington. Philos Mag 6th ser 48:1085-9 D '24

PALMOLIVE company

Four policies on which we built a $10,000,000 business. System 47:477-80+ Ap '25

Palmolive to sell direct in New York. Ptr Ink 132:76 Ag 20 '25

PALMS

Fuel alcohol from Nipa palm. Automotive Ind 53:627 O 8 '25

PAMPHLETS

Arrangement and disposition of pamphlets and clippings. W. L. Hall. Virginia State Lib Bul v 15:1-13 Ag '24

PANAMA

Republic of Panama. U S Bur For & Dom Com Trade Information Bul 257:1-15 '24

See also Mines and mineral resources—Panama

Economic conditions

Economic conditions in Panama. Engineer 137: 156 F 8 '24

Economic conditions of Panama. Engineering 119:168-9 F 6 '25

PANAMA canal

Le canal de Panama. A. Dumas. il diag maps Génie Civil 84:173-9 F 23 '24

Panama canal competition, a condition, not a theory. C: Donnelly. Ry Age 75:978-9 N 24 '23

Panama canal remaking map of western America. A. C. Laut. il map Forbes 15: 611-13+ F 15 '25

Panama canal turns railroad map topsy-turvy. A. C. Laut. Forbes 15:818-19+ Ap 1 '25

Railroads injured by subsidized competition. F. W. Sargent. Ry Age 79:651-2 O 10 '25

Report of the committee of the National academy of sciences on Panama canal slides. (Memoirs. v. 18) 135p National academy of sciences, Washington, D.C. '24

Salt water climbs the locks of the Panama canal. R. Z. Kirkpatrick. plan Eng N 92: 935-6 My 29 '24

Tolls

How Panama canal tolls are assessed. M. L. Walker. Marine R 55:235 Je '25; Same. Marine Eng 30:318 Je '25

Oil brings big tolls to Canal Zone. Nat Pet N 15:43+ D 5 '23

Traffic

Commercial traffic through the Panama canal in 1924-1925. Econ W n s 30:268 Ag 22 '25

Increasing importance of the Panama canal in world commerce. Econ W n s 28:618-22 N 1 '24

Panama canal and trade route changes. Bradstreet's 53:193-4 Mr 21 '25

Panama canal—its present and future traffic. R. Z. Kirkpatrick. il Eng N 94:447-8 Mr 12 '25

Panama canal traffic. Bradstreet's 53:610 S 19 '25

Panama canal traffic July-September shows decline. Bradstreet's 52:824 D 20 '24

Report for the year ending with June 30 of the Governor of the Panama Canal. Engineering 118:745 N 28 '24; Econ W n s 28: 772 N 29 '24

Summary of traffic through the Panama canal in 1924. Ry R 76:246 Ja 31 '25

PANAMA Canal Zone
Proclamation of President Coolidge abrogating Panama canal treaty. Comm & Fin Chr 118:2767-8 Je 7 '24

See also Floods—Panama Canal Zone; Water supply—Panama Canal Zone

Statistics, Vital

Vital statistics of the Panama Canal Zone. F: L. Hoffman. Spectator 113:19+ Ag 7 '24

PAN AMERICAN confederation for highway education
What did the Pan-American road congress accomplish? P. Johnson. Automotive Ind 51: 114-16 Jl 10 '24

PAN AMERICAN congress of architects
Report of delegates of second congress. W: L. Plack and F. R. Watson. Am Inst Arch J 11:486-8 D '23

PAN AMERICAN highway commission
Building a highway of friendship. C: P. Burton. Eng & Contr (R & S) 62:50-2 Jl 2 '24
Great crusade for better highways in Latin America. S. T. Henry. il Good Roads 67: 41-5 Ag '24
Highway commission of Pan-America starts on tour. Eng N 92:1035-6 Je 12 '24
North Carolina highway tour continued. A. V. Draper. Manuf Rec 85:77-8 Je 19 '24
Pan-American highway commission studies road building in the U.S. E: N. Vose. il Dun's Int R 44:45-9 N '24

See also Pan American confederation for highway education

PAN AMERICAN highway congress
U.S. road mission leaves to attend Pan-American congress. G: E. Quisenberry. Automotive Ind 53:367-9 S 3 '25

PAN AMERICAN petroleum and transport company
Pan-American's 1924 profits fall but 1925 earnings increase. Nat Pet N 17:116-18 Jl 15 '25

PAN AMERICAN standardization congress
Abstract of recommendations. Mech Eng 47: 361 My '25
Annual meeting, 1st, Lima, Peru, December 23. Ptr Ink 129:33-4 D 18 '24
Pan-American standardization. K. K. Hoagg. Soc Auto Eng J 16:405-8 Ap '25

PAN AMERICAN western petroleum company
Doheny announces capitalization plans for new company. Nat Pet N 17:35 Ag 19 '25

PAN AMERICANISM
Problems in Pan Americanism. S: G. Inman. rev. ed. 439p [bibliog. p. 427-30] Doran '25

PANCREAS
Influence of tryptophan and other amino acids upon the stability and enzymic activity of pancreatic amylase. H. C. Sherman, M. L. Caldwell and N. M. Naylor. Am Chem Soc J 47:1702-9 Je '25
Pancreas gland. B: T. Fairchild. Ind & Eng Chem 16:41-7 Ja '24

PANEL heating. See Hot water heating—Panel system

PANEL work
Panelling in the parlor chamber of the Welles house in Lebanon. Arch Rec 57:479 My '25
Paneling—its treatment and finish. Bldg Age 47:138+ Mr; 148+ Ap '25

PANICS
Panic of 1837; some financial problems of the Jacksonian era. R. C: McGrane. 260p [bibliog. p. 237-53] Univ. of Chicago press '24

See also Business cycles; Business depression

PANICS (in disasters). See Crowds

PANTALEONI, Maffeo, 1857-1924
Sketch. A. Loria. Econ J 34:648-55 D '24

PANTOGRAPH
Detailing templets for arch brick with pantograph. R. P. Wallis. diag Eng N 93:1044 D 25 '24

PAPAVERALDINE
Oxidation of substituted 1-benzyl-3:4-dihydro-*iso*quinolines and a synthesis of papaveraldine. J. S. Buck, R. D. Haworth and W: H: Perkin, jr. Chem Soc J 125:2176-85 O '24
Synthetical experiments in the *iso*quinoline group. R. D. Haworth and W: H: Perkin, jr. Chem Soc J 127:1453-62 Je '25

PAPAVERINE
Synthesis of 2:3:10:11-bismethylenedioxyprotoberberine and 6:7:3':4'-bismethyienedioxyprotopapaverine. J. S. Buck, W: H: Perkin, jr. and T: S. Stevens. Chem Soc J 127:1462-72 Je '25

PAPER
Bonds, ledgers and fine papers. W. D. Somerville. Paper Tr J 80:55-7 Je 4 '25
How menace of paper shortage affects all advertisers. R. Dickinson. Ptr Ink 129:73-4+ O 16 '24
How to cut the factory printing bill. A. J. Jacquot, jr. il Factory 34:430-1+ Mr '25
New uses of paper. W. B. Bullock. Paper 33:22-3 D 27 '23
Paper or sawdust, by H. M. Lydenberg. Review. Lib J 50:263 Mr 15 '25
Permanence in paper. A. Highton. Inland Ptr 75:726-7 Ag '25
Use of paper in the machine shop. J. Davies. Am Mach 63:200-1 Jl 30 '25
Wasps the earliest paper chemists. H. Elliott. Chem Age 33:59-60 F '25
Wherein the textile and paper industries are related and contrasted. M. S. Griffin. Paper Tr J 78:62 Ja 3 '24; Same. Am Dyestuff Rep 12:854-5 N 19 '23
Why paper breaks in printing. P: J. Massey. Paper 34:657-61 Jl 31 '24

See also Carbon paper; Dyes and dyeing—Paper; Marbling; Paper board; Paper rolls; Photographic paper; Vulcanized fiber; Wall paper; Waste paper; Watermarks; Waterproofing of paper; Wood pulp; Wrapping paper

Analysis

Analysis of coated papers. Paper 34:48-51 My 1 '24
Analysis of newsprint. A. Tingle. Paper 34: 759 Ag 14 '24
Chemical stains for use in microscopical analysis of paper. H. N. Lee. Tech Assn Pa ser 8:48 '25; Same. Paper Tr J 80:193 F 5 '25; Same. Paper 35:110 F 12 '25
Comparison of the various methods used in determining the fiber composition of paper. E. A. Bergholtz. Tech Assn Pa ser 7:40-3 Je '24; Same. Paper Tr J 78:186-9 Ap 10 '24
Detection of animal size in surface sized papers. F. T. Carson. Paper Tr J 78:168 Ap 10 '24; Same. Paper 33:100 Ap 17 '24
Determination of chemical pulp and groundwood in paper. Halse. Paper Tr J 80:49-50 Ap 16 '25
Microscopical analysis of paper by eighteen investigators using different methods. H. N. Lee. Paper Tr J 77:51-2 N 22 '23
Pulp and paper fiber composition standards. M. F. Merritt. il U S Bur Stand Tech Pa 250:101-5 '24
Rapid analysis of paper. J. Crolard. Paper 33: 5-8 D 6; 7-9+ D 13; 6-7 D 20 '23; 11-12 Ap 10; 87-9 My 8 '24

Bibliography

Paper research literature, VII (revised); a list of contributions by members of the U.S. Bureau of standards, 1910 to December 31, 1924. C. J. West and B. W. Scribner. Paper Tr J 80:46-52 My 21 '25

See also Paper making—Bibliography

Color

Causes of deterioration of color in pulp and paper. M. L. Griffin. Tech Assn Pa ser 7:28 Je '24; Same. Paper Tr J 78:174 Ap 10 '24

PAPER—Color—*Continued*

Measure of the color characteristics of white papers. R. E. Lofton. diag U S Bur Stand Tech Pa 244:667-76 '23; Abstract. Paper Tr J 78:183 Ap 10 '24; Same. Paper 33:110 Ap 17 '24; Same. Tech Assn Pa ser 7:37 Je '24

See also Dyes and dyeing—Paper

Curling

Curling of fine papers. H. H. Hanson. Paper Tr J 80:43-5 Ap 30 '25

Dictionaries

Classification and definitions of papers. C. J. West. 88p Lockwood trade journal co., inc., New York '24

Definition of paper terms. F. A. Curtis and C. J. West. Paper Tr J 78:51-4 Ja 17; 50-2 Ja 24; 54-7 Ja 31; 56-8 F 7; 60-2 F 14; 50-2 F 21; 59-62 Mr 6 '24; Same abr. Paper 33: 66+ Ap 17 '24

Dyeing

See Dyes and dyeing—Paper

Gloss measurement

Glarimeter and the measurement of the finish of paper. R. E. Lofton. bibliog diag Tech Assn Pa ser 8:100-2 '25; Same. Paper Tr J 80:47-9 F 12 '25; Same. Paper 35:132+ F 12 '25

Manufacture

See Paper making

Moisture content

Moisture meter and its use in water-removal. E. A. Rees and E. J. Wilson. il diag Tech Assn Pa ser 8:29-31 '25; Same. Paper Tr J 80:153-5 F 5 '25

Preservation

Paper preserving processes. A. Weston. Special Lib 15:29-31 F '24

Prices

Market quotations. Published in weekly numbers of Paper trade journal

Specifications

15th report of Committee on paper specifications. Paper Tr J 77:29-30 D 13 '23

Standards

Can bond papers be standardized? W: B. Wheelwright. Paper Tr J 79:38+ Jl 3 '24

Paper standardization benefits printers. E. O. Reed and F. E. A. Larson. Paper Tr J 78: 63 F 14 '24

Paper standardization program. E. O. Reed and F. E. A. Larson. Paper Tr J 78:54 Ja 3 '24

Standard forms for office and shop use. Management & Adm 7:695-8 Je '24

Standards for area, count and weight. S. L. Willson. Paper Tr J 79:51-4+ Jl 10 '24

See also Paper sizes

Terminology

Glossary of paper terms and instructions to exporters. U S Bur For & Dom Com Trade Promotion Ser 21:1-22 '25

Polyglot lexicon; list of German, English and French equivalent terms. Paper 35:50+ F 12 '25

Standard newsprint paper; Secretary of the treasury defines the term. A. S. Kellogg. Paper 34:804 Ag 21 '24

See also Cellulose—Terminology; Paper—Dictionaries

Testing

Analysis of Bureau of standards' brittleness tester. H. U. Kiely and C. E. Apelgren. Tech Assn Pa ser 8:59-60 '25; Same. Paper Tr J 80:219+ F 5 '25; Same. Paper 35: 122+ F 12 '25

Analysis of the strength of paper. F. T. Carson. Tech Assn Pa ser 7:73-8 Je '24; Same. Paper Tr J 78:51-6 Mr 20 '24

Comparison of paper tests made at various relative humidities. H. U. Kiely. Tech Assn Pa ser 8:54-7 '25; Same. Paper Tr J 80:207+ F 5 '25

Degree of porosity of paper. V. Ravizza. il diags Paper 33:14-15 F 14 '24

Detecting frauds by paper testing. T: J. Keenan. Paper 34:518 Jl 10 '24

Effect of pressure on test sheets. E. P. Cameron and J. M. Payne. charts Paper 33:5-11 F 14 '24

Effect of the clamping device of the Mullen paper tester on test results. L. W. Snyder. Tech Assn Pa ser 8:94 '25; Same. Paper Tr J 80:50 F 12 '25

Effect of the weight of the needle of the Mullen paper tester upon the bursting strength test. R. E. Loften and C. J. Costello. Tech Assn Pa ser 7:43 Je '24; Same. Paper Tr J 78:58 My 15 '24

Government tests of paper products. Paper Tr J 77:23-4 N 22 '23

Humidity in tests of paper. F: A. Curtis. Paper 34:300-1 Ag 21 '24; Same. Paper Tr J 79:48-9 Ag 21 '24

Method of making uniform fiber sheets for test purposes. M. B. Shaw and G: W. Bicking. il diags Paper Tr J 79:51-3 N 20 '24

New sizing tester for paper. F. T. Carson. il diag Paper Tr J 79:44-5 O 23 '24

Paper drying tests. diags Paper Tr J 79:52-4 Ag 28 '24

Paper testing. A. G. Rendall. il Paper Tr J 81:47-54 Ag 27 '25

Permeability vs. porosity of paper; Gurley densometer. C. F. Hanson. Paper 33:11 Mr 6 '24

Porosity testing of paper. F. E. Gallagher. Paper 33:5 Mr 20 '24

Pulp weight factors. charts Tech Assn Pa ser 8:66-8 '25; Same. Paper Tr J 80:49-51 F 19 '25

Recent paper research of Bureau of standards. B. W. Scribner. il Paper Tr J 81:51-6 S 24 '25

Relation of paper tests to paper furnish. J. E. Minor. Tech Assn Pa ser 8:87-90 '25; Same. Paper Tr J 80:47-50 Mr 26 '25

Relative humidity and paper testing. E. O. Reed. Paper 34:1133-4 O 9 '24; Same. Paper Tr J 79:49-50 O 9 '24

Report of paper testing committee. Tech Assn Pa ser 7:39 '24; Same. Paper Tr J 78:185 Ap 10 '24

Report of the paper testing committee. Tech Assn Pa ser 8:63-5 '25; Same. Paper Tr J 80:229+ F 5 '25; Same. Paper 35:68+ F 12 '25

Sectional meeting of Technical association of the pulp and paper industry on paper testing. Tech Assn Pa ser 7:191-8 Je '24

Sizing tests for paper. M. L. Caust. Paper 33:3-5 D 27 '23

Standard atmospheric conditions for paper testing. E. O. Reed. Ind & Eng Chem 16: 262-3 Mr '24; Same. Paper 34:848-9 Ag 28 '24

Study of the Mullen tester on paperboard. A. Abrams. il Paper Tr J 81:56-9 Ag 6 '25

Technical assn. of the pulp and paper industry fall meeting, Buffalo, Oct. 14-15. Paper Tr J 80:41-6 Ja 8 '25

Tensile testers. Paper Tr J 80:43-5 Ja 22 '25

Testing inkfastness of paper. N. A. Stephens. diags Paper 34:1142-4 O 9 '24

Testing of paper; effect of temperature and relative humidity on the folding endurance. E. O. Reed. Paper 35:269-72 D 4 '24; Same. Paper Tr J 79:55-7 D 18 '24

Testing paper for permeability to liquids. F. T. Carson. il diags Tech Assn Pa ser 8:91-4 '25; Same. Paper Tr J 80:59-62 Mr 5 '25; Abstract. Chem & Met Eng 32:425 Ap '25

Testing waterproofed paper. F. T. Carson. il Paper Tr J 79:48-50 S 4 '24

Turpentine penetration test for grease proof paper. H. A. Smith. Tech Assn Pa ser 7:23-5 Je '24; Same. Paper Tr J 78:169-71 Ap 10 '24; Same. Paper 33:158+ Ap 17 '24

PAPER—Testing—*Continued*
Weller brittleness tester, an analysis. A. E. Bachmann. Tech Assn Pa ser 8:105-6 '25; Same. Paper Tr J 80:51-2 F 19 '25

See also Paper—Gloss measurement

Weight

Instantaneous variations in the weight of paper coming from the machine. H. Micoud. Paper Tr J 81:51-4 S 17 '25

PAPER, Coated. See Paper coating

PAPER, Government
Annual bids opened for government paper. Paper Tr J 78:23-30+ Ja 31; 27-9 F 7 '24; 80:21-30+ Ja 29 '25

PAPER, Grease-proof
Grease proof packages. Paper Tr J 81:32+ Jl 9 '25
Testing paper for permeability to liquids. F. T. Carson. diag Tech Assn Pa ser 8: 93-4 '25; Same. Paper Tr J 80:61-2 Mr 5 '25
Turpentine penetration test for grease proof paper. H. A. Smith. Tech Assn Pa ser 7: 23-5 Je '24; Same. Paper Tr J 78:169-71 Ap 10 '24; Same. Paper 33:158+ Ap 17 '24
Wrapping dutiable as imitation parchment. Paper Tr J 79:34 Ag 7 '24

PAPER, Gummed
Drying and conditioning gummed paper. J. O. Ross. diags Tech Assn Pa ser 7:26-8 Je '24; Same. Paper Tr J 78:172-4 Ap 10 '24; Same abr. Paper 33:142 Ap 17 '24
Effect of acetic acid on animal glue. G. W. Sullivan. Tech Assn Pa ser 8:57-8 '25; Same. Paper Tr J 80:215+ F 5 '25

PAPER, Parchment. See Parchment paper

PAPER, Photographic. See Photographic paper

PAPER, Roofing
How roofing paper is made. F. Hoyer. Paper 35:450-2 Ja 1 '25

PAPER, Safety
Safety paper in business. H. P. Preston. Credit M 27:12 Jl '25

PAPER, Waxed
Wax paper manufacturers form new association. Paper 34:716-17 Ag 7 '24; Same. Paper Tr J 79:29+ Ag 7 '24

PAPER, Wrapping. See Wrapping paper

PAPER bags
How paper bags came to be made. Paper 35: 453-4 Ja 1 '25
Paper bags gaining favor with cement shippers. Paper Tr J 80:36 Ap 16 '25
What W. H. Deubener did with a string and a paper bag. L. P. Weaver. Paper 33:30 Ja 17 '24

Manufacture

Bogalusa paper co. starts new kraft mill. il plan Paper Tr J 79:30-2 O 30 '24
New machine to make bags in continuous strips. il Paper Tr J 79:56 O 9 '24

Standards

Standard size for grocers bags. Paper Tr J 80:72 Je 4 '25

PAPER board
Box board simplification means big saving. W: A. Gately. Paper Tr J 81:34+ Ag 27 '25
Box board trade customs, rules and regulations. Paper 34:713-15 Ag 7 '24
Fiber shipping case economies. W: A. Vollmer. il Management & Adm 7:187-93 F '24; Excerpt. Paper 33:23-4 Mr 20 '24
Increase in boxboard production. Comm & Fin Chr 121:517 Ag 1 '25
New moistureproof board invented by Dr Kress. Paper 34:895 S 4 '24
Selecting the proper container; savings in shipping costs. Management & Adm 10:271-2 N '25
Straw board and straw paper. H. G. Funsett. Paper Tr J 80:58-60 Je 4 '25
What is paper board? Paper Tr J 80:43 Ja 15 '25

See also Paper box industry; Paper boxes

Manufacture

Fiber board manufacture. R. H. Harding. Paper 33:7-10 Ja 17 '24
Fine cardboard making; furnishes and processes for ivory and alabaster cardboards used in German mills, with notes on adhesives and drying methods. H. Postl. Paper 34:1043-5 S 25 '24
Furnishes for various papers. A. Rettori. Paper 34:763-4 Ag 14 '24
Modernizing a boxboard mill. H. G. Ingraham. il diags Chem & Met Eng 32:782-7 O '25
New method of cooking straw for strawboard. J: D. Rue and W: Monsson. Paper Tr J 81: 52-3 O 8; 49 N 12 '25
Paperboard and its manufacture. A. O. Bragg. il diag map Paper 34:413-17, 509-13, 987-90; 35:59-60, 177-82, 503-8 Je 26, Jl 10, S 18, O 30, N 20 '24, Ja 8 '25; [cont. in] Paper Tr J 80:49-53 Ap 9; 51-5 My 14; 41-5 Je 18; 81:46-50 Ag 13; 52-6 N 5 '25
Proposal for reducing the contamination of streams by strawboard mills. J: D. Rue and F. G. Rawling. Paper Tr J 81:48-9 O 8 '25; Excerpt. Chem & Met Eng 32:927 D '25
Shartle continuous beater. diags Paper 34: 38-9 My 1 '24

Testing

Method of testing board for moisture-proofness. A. R. Harvey. il Tech Assn Pa ser 7: 84-6 Je '24; Same. Paper Tr J 78:50-2 Je 26 '24
Study of the Mullen tester on paperboard. A. Abrams. il Paper Tr J 81:56-9 Ag 6 '25

PAPER board, Corrugated
Economies of fiber shipping containers. H. D. Cornwall. Management & Adm 9:464 My '25
How to reduce packing costs for hard rubber goods. il India Rubber W 72:467-8 My '25

PAPER board mills
Conference of paper box-board manufacturers on shorter working hours, Washington, D.C., May 2, 1924. Monthly Labor R 18: 1187-96 Je '24; Excerpt (Address by Secretary Davis). Paper 34:85-6 My 8 '24
Conference, 2d, of paper box-board manufacturers on shorter working hours. Monthly Labor R 20:481-4 Mr '25
Hours and earnings in the paper box-board industry, 1925. Monthly Labor R 21:741-4 O '25
Reform of mill working hours. J. J. Davis. Paper 34:951-2 S 11 '24

PAPER box industry
Paper board shipping boxes. Survey of Cur Business 30:95 F; 39:82 N '24
Paper box business. Dun's R 32:8+ Mr 15; 10-11 Jl 12; 8-9 N 8 '24; 33:8-9 Mr 14; 9-10 N 7 '25

PAPER boxes
Problem of containers. H. D. Keeler. Textile World 67:3429 My 23 '25
Research work of National folding box association. Paper Tr J 81:30+ Jl 9 '25

Manufacture

Manufacture and use of printed cartons. C: W. Geiger. il Inland Ptr 74:414-15 D '24
Maschinen zur pappschachtel-fabrikation. G. Meyer-Jagenberg. diags Zeit Ver Deutsch Ing 68:472-4 My 10 '24
Material handling in making fiber-board boxes. il Management & Adm 8:179-80 Ag '24
Modern press serves many purposes. C: W. Geiger. il Inland Ptr 74:572-3 Ja '25
Ritchie cardboard box machine. il Engineer 140:94 Jl 24 '25

PAPER clips
Large uses of steel in small ways. il Iron Tr R 76:755 Mr 19 '25

PAPER coating
Analysis of coated papers. Paper 34:48-51 My 1 '24

PAPER coating—*Continued*
Apparatus for the removal of impregnating and coating materials from processed papers. F. T. Carson. il diag Tech Assn Pa ser 8:103-4 '25; Same. Paper 35:39-40 F 12 '25; Same. Paper Tr J 80:53-4 Mr 19 '25
New coating paper mills. Chem Age (Lond) 12:supl1 Ja 17 '25
Notes on china clay. D. V. Lowe. Tech Assn Pa ser 8:52-3 '25; Same. Paper Tr J 80:203+ F 5 '25; Same. Paper 35:58+ F 12 '25
Substances used in coating paper. G. Belle. Paper 35:444-9 Ja 1 '25
Use of glue for coated paper. V. H. Gottschalk. Paper Tr J 79:46-9 N 13 '24
Utility of china clay as coating material. Chem Age (Lond) 12:sup8-9 F 21 '25

See also Paper finishing; Paper sizing

PAPER coloring. See Dyes and dyeing—Paper

PAPER consumption
Paper age we live in. R. S. Kellogg. Paper 33:9-10 Mr 6 '24

PAPER containers
Container for distributing rock drill lubricants. diag Eng & Min J 120:140 Jl 25 '25
Paper can industry. W. R. Lenderking. Paper 33:168+ Ap 17 '24

See also Paper bags; Paper boxes

PAPER cutters
New tube cutter. il diag Paper Tr J 79:32 N 27 '24
Paper-cutting knives. Inland Ptr 75:579 Jl '25
Sharpening cutter knives in far away places. D. A. Hampson. diags Inland Ptr 74:577-8 Ja '25

PAPER drying
Air handling and humidity problems in Wisconsin paper mill. A. T. North il plan Am Soc Heat & V E J 30:101-5 F '24
Alexander electric paper dryer. J: E. Alexander. il diags Tech Assn Pa ser 8:7-10 '25; Same. Paper Tr J 80:131-4 F 5 '25; Same. Paper 35:114+ F 12 '25
Caterpillar paper dryer. J: W. Brassington. Paper 34:1135-7 O 9 '24
Development in paper drying with Alexander drier. S. A. Staege. il Tech Assn Pa ser 8:10-13 '25; Same. Paper Tr J 80:134-7 F 5 '25; Same, without il. Paper 35:118+ F 12 '25
Drying and conditioning gummed paper. J. O. Ross. diags Tech Assn Pa ser 7:26-8 Je '24; Same. Paper Tr J 78:172-4 Ap 10 '24; Same abr. Paper 33:142 Ap 17 '24
Drying boards. D. M. Sutherland, jr. Paper Tr J 80:50 Ja 8 '25
Drying of paper. W: F. Goldsmith. Tech Assn Pa ser 7:161-4 Je '24; Same. Paper Tr J 79:49-51 Ag 28 '24; Same. Paper 34: 1050-1+ S 25 '24
Drying paper. C. H. Liecester. Paper Tr J 79:43-4 S 25; 47-8 O 9; 46-7 O 23 '24
Drying paper. O. Minton. il diag Paper Tr J 78:53-9 F 14 '24
Drying paper. F. C. Stamm and E. P. Gleason. charts Paper Tr J 78:54-6 My 22 '24; Same, without charts. Paper 34:704-5 Ag 7 '24
Drying paper in a vacuum. T: J. Keenan. il Paper 34:699-701 Ag 7 '24
Electric drying cheaper than coal. B. T. McBain. Paper 33:11 D 13 '23
Improvement in papermaking; extraction of water from the wet newly formed sheet. diags Paper 34:46-7 My 1 '24
Methods of drying paper. T: J. Keenan. Paper 34:427-8 Je 26 '24
Paper drying. Paper Tr J 77:49-51 D 27 '23
Paper drying and effect on sizing quality. Paper Tr J 79:46 Ag 14 '24
Paper drying test results. Paper Tr J 78:43 Ja 24 '24
Paper drying tests. diags Paper Tr J 79:52-4 Ag 28 '24
Report of paper drying committee. Tech Assn Pa ser 8:36 '25; Same. Paper Tr J 80:167 F 5 '25
Steam distribution, pumping extravagance and practical suggestions for improvement. F. C. Farnsworth. Paper Tr J 79:43-7 Jl 24 '24
Steam used for drying paper. J. O. Ross. Paper Tr J 81:63 S 3 '25
Thoughts on paper drying. J. W. Brassington. Paper 34:1052 S 25 '24
Vacuum paper machine dryer. O. Minton. diags Tech Assn Pa ser 7:1-13 Je '24; Same. Paper Tr J 78:147-59 Ap 10 '24; Same cond. Paper 33:50+ Ap 17 '24; Discussion. Tech Assn Pa ser 7:182-4 Je '24

See also Felts (paper making)

PAPER finishing
Electrical supercalender drive. O. C. Cordes. il diag Paper 33:9-11 F 28 '24
Finishing room machinery. O. C. Cordes and W. W. Spratt. il Paper 34:422-5 Je 26 '24
Glarimeter and the measurement of the finish of paper. R. E. Lofton. bibliog diag Tech Assn Pa ser 8:100-2 '25; Same. Paper Tr J 80:47-9 F 12 '25; Same. Paper 35:132+ F 12 '25

See also Paper—Gloss measurement; Paper coating

PAPER handling
Fitting the handling into the operations; 11 lift trucks and 2,000 skids save $37,990.68 per year. il Factory 35:486+ S '25
Reducing stock-handling costs. H: J. Payne. il Inland Ptr 76:105-6 O '25

PAPER hanging
Instructor's guide, wallpaper classes. 71p Wallpaper manufacturers' association of the U.S., New York '24
Practical painting and paper hanging in all its branches. C: L. Young. 414p Century co. '24

PAPER house of Pennsylvania, Philadelphia
Paper house solves overstocking problems. il Paper Tr J 80:90-1 F 5 '25

PAPER industries exchange
Closing the paper exchange. Paper Tr J 77:40 N 29 '23
Paper exchange to have market service. J: R. Mauff. Paper 33:13+ N 15 '23
Paper industries exchange closed. Paper 33: 17 D 6 '23
Proposed Boxboard association to succeed Paper industries exchange of Chicago and New York. Comm & Fin Chr 117:2830-1 D 29 '23

PAPER industry and trade
Buyer, seller and maker of paper. Paper Tr J 79:58+ O 30 '24
Economic revolution in newsprint. L. Beech. Annalist 26:339-40 S 18 '25
Foresters and the pulp and paper industry. B. A. Chandler. Paper Tr J 81:67-8 Jl 2 '25
Growth of paper making in North America. R. S. Kellogg. Paper Tr J 79:32+ Ag 21 '24; Same. Paper 34:806-8 Ag 21 '24
If paper were sold like real estate. C. S. Peterson. Inland Ptr 74:416-17 D '24
National paper trade association, 21st annual meeting, New York, April 8. Paper Tr J 78:259+ Ap 10 '24; Paper 33:150+ Ap 17 '24
National paper trade association, fall conference, Chicago. Paper Tr J 79:23-7 O 23 '24
Paper age. R. S. Kellogg. Inland Ptr 73:579-80 Jl '24
Paper, an index of civilization. H. H. Reynolds. Paper Tr J 79:42+ D 4 '24
Paper specialty as a need. J. E. Willert. Paper 33:28 Ja 17 '24
Year of uncertainties in paper. T. W: Powell. Paper Tr J 78:69+ Ap 10 '24

See also Paper—Prices; Paper industries exchange; Paper textiles; Wrapping paper; *also* International paper company

Exhibitions

Second paper show big success. A. S. Brown and H. J. Laughton. Paper Tr J 78:133-43 Ap 10 '24

PAPER industry and trade—Exhibitions—*Cont.*
Wembley and the paper industry. il Chem Age (Lond) 11:sup9-11+ Jl 19 '24

Service

Put the paper man on your pay roll. L. D. MacDonnold. Inland Ptr 75:220-1 My '25

Statistics

Census of paper industry, 1923. Paper 35:625-6 Ja 29 '25
Conditions in the fine paper market. E. H. Naylor. Paper Tr J 78:78-9 Ap 10 '24
Gross paper production above average in 1923. Paper Tr J 78:27 Ja 3 '24
News print makes new record year. R. S. Kellogg. Paper Tr J 78:75-7 Ap 10 '24
Newsprint paper and printing, 1921-1924. Survey of Cur Business 30:94 F '24 [continued quarterly]
Paper production, 1923 to April 1925. Survey of Cur Business 46:27 Je '25 [continued quarterly]

Alaska

Alaska as a paper center. Paper 34:948-50 S 11 '24

Belgium

Belgium exports bulk of its paper manufactures. E. Roose. il Dun's Int R 45:73+ Jl '25

Canada

Annual meeting of Canadian pulp and paper association, Jan. 28-30. Paper 35:27-30 F 12 '25
Big expansion in Canada's news print industry. Paper Tr J 80:102-4 F 5 '25
Canada discussing limiting wood export. Chem Age 33:68-70 F '25
Canada's part in the world production and distribution of newsprint paper. A. E. Cadman. Econ W n s 27:438-9 Mr 29 '24
Canada's part in the world production of newsprint paper. A. E. Cadman. Econ W n s 28:728-9 N 22 '24
Canadian production of newsprint during July and first half of year and exports of pulp and paper in July and seven months. Comm & Fin Chr 121:1153 S 5 '25
Canadian wood pulp and paper industry in 1924. Econ W n s 30:303-4 Ag 29 '25
I.P. expands by purchases and construction. il Paper Tr J 81:58-60 O 29 '25
In the pulp and paper industry. Can Chem & Met 8:226-7 S '24
Newsprint paper production in the United States and Canada in 1924. Econ W n s 29: 303 F 28 '25
Pulp and paper in Canada. T. L. Crossley. Can Chem & Met 8:113-14 My '24
Pulp and paper industry during the last twelve months. A. Papineau-Couture. Can Chem & Met 9:111-12 My '25
Pulp and paper industry in Canada. Economist 99:263-4 Ag 16 '24
Puts embargo up to government; report of Canadian pulpwood commission. Paper 34: 655-6 Jl 31 '24
Review of Canadian pulp and paper industry Can Chem & Met 8:65-6 Mr '24

See also Canadian pulp and paper association

Chile

Markets for paper and paper products in Chile and Peru. U S Bur For & Dom Com Trade Information Bul 168:1-21 '23

China

Paper and paper products in China. U S Bur For & Dom Com Trade Information Bul 309:1-19 '25

Cuba

Cuban market for paper and paper products. C: A. Livengood. U S Bur For & Dom Com Trade Information Bul 192:1-15 '24

Egypt

Paper and paper products in the Union of South Africa and Egypt. U S Bur For & Dom Com Trade Information Bul 363:13-22 '25

France

Critical year for French paper industry. Paper Tr J 78:106+ Ap 10 '24
French paper market found 1924 unprofitable year. Paper Tr J 80:34+ My 14 '25

Germany

Imports and exports; the German situation. Paper 33:5-6 Mr 13 '24

Great Britain

Position of papermaking in England. Paper 35:543-6 Ja 15 '25
Position of the paper trade. Economist 99: 411-12 S 13 '24

India

British India's imports of coarse and fine papers. Paper 34:712 Ag 7 '24
Paper industry of India. Paper 34:999 S 18 '24
Recent developments in India's bamboo pulp industry. Paper 35:334 D 11 '24

Mexico

Mexican market for paper and paper products. U S Bur For & Dom Com Trade Information Bul 214:1-13 '24

Norway

Norwegian pulp and paper industry in 1924. Paper Tr J 80:34 Ap 16 '25

Ontario

Ontario paper industry had a trying year. Paper Tr J 80:99-101 F 5 '25

Peru

Markets for paper and paper products in Chile and Peru. U S Bur For & Dom Com Trade Information Bul 168:1-21 '23

Russia

Prospects of the Russian pulp and paper industry. N. Belski. Paper Tr J 80:38 Je 11 '25

South Africa

Paper and paper products in the Union of South Africa and Egypt. U S Bur For & Dom Com Trade Information Bul 363:1-12 '25

Southern states

Papermaking opportunities in the South. C: A. McKeand. Paper Tr J 78:203+ Ap 10 '24; Same cond. Paper 33:38 Ap 17 '24
Paper-making progress and potentialities of the South. R: W. Edmonds. il Manuf Rec 86:308-13 pt 2 D 11 '24
Pulp and paper making in the South. J: D. Rue. Paper Tr J 81:59-62+ Jl 16 '25; Same, without tables. Paper 35:35-8 F 12 '25
South as a paper making region. C. S. Lee. Manuf Rec 85:71-2 Mr 20 '24
The South the future center of the nation's paper-making industry. Manuf Rec 85:73-5 Ap 17 '24
Southern kraft industry. il Paper Tr J 80: 108-10 F 5 '25

Sweden

Die entwicklung der schwedischen holzschliff-zellstoff- und papierindustrien. F. Grewin. Zeit Ver Deutsch Ing 68:343-7 Ap 5 '24
Swedish view of American market. Paper 35: 363-4 D 18 '24

United States

General paper business. Dun's R 32:8-9 Ja 26; 8+ My 24; 7-8 S 20 '24; 33:8-9 Ja 24; 8-9 My 2; 8-9 Ag 29 '25
How the United States can meet its present and future pulp-wood requirements. E. H. Clapp and C: W. Boyce. U S Agric Bul 1241: 1-98 '24; Excerpt. Paper 34:706-8, 753-4 Ag 7-14 '24; Abstract. Paper Tr J 79:47-50 Ag 7 '24

PAPER industry and trade—United States
—Continued
Imports and exports. Paper 33:5-6 F 28; 7-8 Mr 6; 5-6 Mr 13; 7 Mr 20 '24
Looking forward into 1925. Paper 35:397-400 D 25 '24
Melting timber line. C. R. Berry. Paper Tr J 80:40+ Je 4 '25
Newsprint. Comm M 6:16-17 O '24
News print shipments and imports. W. H. Greul. Paper Tr J 79:36+ O 9 '24
Paper and a people's culture. H. H. Reynolds. Paper 35:273-5 D 4 '24
Paper and paper stocks imports and exports of the United States for the month ending February 29, 1924, and for the eight months ended February 29, 1924. Paper Tr J 78:38+ Ap 24 '24
Paper exports exceed 25 millions. Paper 33:7 F 28 '24
Paper industry has annoying year. Paper Tr J 80:73-90 F 5 '25
Paper industry has economic vision. Chem & Met Eng 32:100-1 Ja 19 '25
Papermen speak at Washington. Paper 33: 18-19 F 14 '24
Position of the paper industry. H. P. Baker. Paper 34:855-6 Ag 28 '24
Problems of the paper merchant. J. A. Carpenter. Paper 33:8-9 N 15 '23
Reforestation needed to save advertising. J. True. il Ptr Ink M 9:26-8+ N '24
United States paper and pulp statistics. Paper 33:10 Ja 3; 14 Ja 24 '24

See also National paper trade association; Tariff—United States—Paper

Wisconsin

Recollections of paper men in the Fox River valley. E: P. Humphrey. Paper Tr J 81: 28+ Jl 16 '25

PAPER laboratory. See United States—Standards, Bureau of—Paper laboratory

PAPER making
Acidity and papermaking. J. E. Minor. Paper 33:6-8 Ap 3 '24
Avoidable losses in papermaking. Paper 34: 1195-9 O 16 '24
Bacteria that dissolve paper. W: H. Gesell. Paper 33:5-6 Mr 27 '24
Bentonite for pitch trouble. S. D. Wells. Paper Tr J 79:47-8 O 16 '24; Same. Paper 35:56-7 O 30 '24
Chemical studies on the pulping of aspen. F. G. Rawlings and J. A. Staidl. Paper Tr J 81:49-51 Ag 20 '25
Colloid paper process. Paper 34:1011 S 18 '24
Colloids and papermaking. R. Fournier. Paper 34:477-80 Jl 3 '24
Colored back water and two sidedness in paper mills. J. R. Roberts. Paper Tr J 81: 55-6 O 1 '25
Continuous causticizing in soda and sulphate pulp mills. il diags plan Paper Tr J 77:53-7 D 6 '23
Controlling freeness of stock. F. M. Williams. Paper 35:143 N 13 '24
Delivering the stock to the paper machine wire. F. Venneman. diags Paper Tr J 79: 43-4 D 25 '24
European rag cooking methods. il Paper 34: 557-9 Jl 17 '24
Factors affecting good formation of the paper sheet. Paper 35:313 D 11 '24
Forensic paper chemistry. A. Papineau-Couture. Paper 33:8-10 Mr 20 '24
From log to paper: a brief visit to a great newsprint mill in Canada. il diag Sci Am 130:241 Ap '24
Furnishes for various papers. A. Rettori. Paper 34:762-7 Ag 14 '24
Future papermaker. C. A. Brautlecht. Paper 34:285 Je 5 '24
Handling pulp for news print. Paper Tr J 81:45-6 Ag 27 '25
Hugh Kelsea Moore and his work. J: C. Olsen. Chem Age 33:25-8 Ja '25
Hydrogen ion concentration in the paper mill. M. B. Shaw. Paper Tr J 81:59-62 S 3 '25
Improvements in fine papermaking. I. Gordon. Paper 33:3-4+ D 6 '23
Indirect heating of digesters. T. Samson. Paper 34:41 My 1 '24
Kraft paper in the South. R. H. Stevens. il Paper 34:133-6 My 15 '24
Making paper from pine stumps. R. H. Stevens. il Paper 34:901-3 S 4 '24
Making paper from stump wood. Paper Tr J 78:299+ Ap 10 '24
Making paper from wheat straw. C. A. Lovell. il Chem & Met Eng 31:459-62 S 22 '24
Manufacture of newsprint paper. W. C. Munro. il Soc Chem Ind J (Chem & Ind) 43:28-33 Ja 11 '24
Manufacture of pulp and paper. 5v McGraw-Hill '21-'25
Manufacture of pulp and paper. H. E. Weston. il Ind Management 69:296-302 My '25
Manufacture of pulp and paper from Australian woods. L: R. Benjamin. 92p A. J. Mullett, Melbourne, Australia '23
Manufacturing of pulp and paper in 1925. W: G. MacNaughton. Paper Tr J 81:35-41 O 29 '25
Meaning of hydrogen ion concentration and its application to the paper industry. W. A. Taylor. il Paper Tr J 81:103-5 O 29 '25
Notable paper making demonstration. Chem Age (Lond) 11:sup9 N 15 '24
Oriental paper making methods. R. Bouvier and A. Ruby. il diags Paper Tr J 79:43-50 Jl 31 '24
Paper technologists discuss recent developments in industry. il Chem & Met Eng 30: 592-5 Ap 14 '24
Papierhalbstoff aus abfallholz. F. Hoyer. diags Zeit Ver Deutsch Ing 68:1319-21 D 20 '24
Pointers in papermaking. Paper 35:586-7 Ja 22 '25
Popular talk on cellulose. J. E. Minor. Paper 33:17-18 Ja 17 '24
Possibilities of pulp manufacture. C. W. Mason. Paper 34:248 My 29 '24
Practical studies for paper manufacturers and all engaged in the industry. S. Leicester. 363p C. Griffin and co., ltd., London; Lippincott, Philadelphia '24
Pulp and paper making in the South. J: D. Rue. Paper Tr J 81:59-62+ Jl 16 '25; Same, without tables. Paper 35:35-8 F 12 '25
Pulp and paper; what they are, how they are made, and some of their uses. I. Ginsberg. il Sci Am 131:162-3 S '24
Recent paper research of Bureau of standards. B. W. Scribner. il Paper Tr J 81:51-6 S 24 '25
Rinman process for cellulose manufacture. E. L. Rinman. diag Paper 35:224-6 N 27 '24
Rubber latex as paper size. A. van Rossem and W. Frenzyl. Paper 33:3-7 N 15 '23
Rubber latex in papermaking. T. J. Keenan. Paper 33:17 Mr 27 '24
Special moistening of chromo paper. E. Arnould. Paper Tr J 78:79-80 Ap 3 '24
Standardizing paper quality. H. Bell and H. M. Holmes. Paper 33:3-7 N 29 '23
Study of flax straw for paper making. J: D. Rue, S. D. Wells and E. R. Schafer. il Paper Tr J 79:45-50 S 25 '24; Same. Paper 34: 1037-42 S 25 '24
Sulphurized pulp and paper products. W: H. Kobbé. Paper Tr J 79:32+ N 13 '24
Technical features of high-speed newsprint manufacture. C. W. Morden. Mech Eng 47:495-6 Je '25
Technical topics at Wisconsin meeting of Northwestern division of the American pulp and paper mill superintendents' association. Paper 35:138-9 N 13 '24
Textile and paper industries related and contrasted. M. S. Griffin. Am Dyestuff Rep 12:854-5 N 19 '23
Treatment and disposal of strawboard wastes. H. B. Hommon. Paper Tr J 79:44-6 S 18 '24
Treatment of paper for special purposes. L: E. Andés. 2d ed., rev. & enl. 204p Van Nostrand '23
Treatment of raw material. H. U. Kiely. Paper Tr J 80:51-4 Ja 8 '25; Discussion. 80:55-8+ F 12 '25

PAPER making—*Continued*

Two-sided effects on paper. I. Ekholm. Paper Tr J 80:48 Je 18 '25

Use of control methods in grinding. L. Beeman. charts Paper 33:12+ N 8 '23

Use of de-inked stock in production of book paper. H. J. Payne. il Chem & Met Eng 29:1176-80 D 31 '23

Water conditions for papermaking. L. M. Booth. Paper 33:5 N 22 '23

Water in the paper industry. M. Aribert. Paper Tr J 79:52-4 N 6 '24

See also Digesters; Dyes and dyeing—Paper; Felts (paper making); Marbling; Paper board; Paper coating; Paper drying; Paper finishing; Paper making machinery; Paper making materials; Paper mills; Paper research; Paper rolls; Paper sizes; Paper sizing; Paper textiles; Parchment paper; Photographic paper; Sulfite liquor; Watermarks; Waterproofing of paper; Wood pulp

Beating

Accelerating the formation of slime in the beater. C. G. Schwalbe. Paper Tr J 80:46-8 Ja 22 '25

Ardleter's beater patented. diags Paper 35: 318-19 D 11 '24

Bandless beater roll and bar. diags Paper Tr J 81:47-50 S 17 '25

Beaters and beating. C. E. Youngchild. Paper 33:18 N 8 '23

Beaters for box board stock. C: W. Shartle. Paper 34:291-2 Je 5 '24

Beating and refining engine. diag Paper 34: 899-900 S 4 '24

Modified beater for bamboo. diags Paper 34: 379-80 Je 19 '24

Motor drive and control for beaters. O. C. Cordes. il Paper Tr J 79:45-6 D 25 '24

New ideas on beating. J: W. Brassington. diags Paper 34:461-4 Jl 3 '24

Power economy in beating. F. Paul. diags Paper 35:675-80 F 5 '25

Sigurd Smith's beating engine. diags Paper 34:439 Je 26 '24

Simplicity in research. A. B. Green. il diag Paper 33:6-10 Ap 10 '24

Unkle extractor at A.P.W. plant. il Paper Tr J 81:66 O 29 '25

Use of slime formers in beating pulp. Paper 33:11 Mr 20 '24

Use of soda ash in the beater coloring of sized papers. W. C. Holmes. Am Dyestuff Rep 13:561-4 Ag 25 '24

Washing stock and beating pulp for paper. J: W. Brassington. Paper 34:845-7 Ag 28 '24

Waste in pulp and paper industry. B. T. McBain. Paper 33:27 Ja 24 '24

Bibliography

Bibliography of papermaking for 1923. Tech Assn Pa Ser 7:106-32 Je '24; Same. Paper Tr J 78:52-4 Ap 24; 49-54 My 1; 53-6 My 8; 49-52 My 15; 45-7 My 22; 51-2 My 29; 55-7 Je 5; 45-6 Je 12; 41-3 Je 19 '24

Bibliography of papermaking for 1924. C. J. West. Tech Assn Pa ser 8:110-44 '25; Same. Paper Tr J 80:51-4 F 12; 53-6 F 19; 51-4 F 26; 63-6 Mr 5; 59-62 Mr 12; 55-8 Mr 19; 51-4 Mr 26; 55-8 Ap 9; 54-7 Ap 16 '25

Chlorine in the manufacture of paper pulp. C. J. West. Paper Tr J 79:43-4 O 2 '24

Current paper trade literature. C. J. West. Published in weekly numbers of Paper trade journal

Literature of papermaking 1390-1800. D. Hunter. 48p Dard Hunter, Chillicothe, Ohio; Review, by H. Elliott. Paper Tr J 80:44+ Je 4 '25

Rubber latex in paper making. C. J. West. Paper Tr J 79:41-2 Ag 14 '24

Bleaching

Bleach liquors from liquid chlorine. J. H. MacMahon. il diag Paper 33:13-16 Ap 10 '24

Bleaching of paper-making fibers. E. Sutermeister. Am Dyestuff Rep 13:185-8, 216-18 Mr 24-Ap 7 '24

Bleaching of wood pulp; effect of consistence on bleaching of sulphite pulp. C. E. Curran and P. K. Baird. Paper Tr J 80:51-3 Ap 16 '25

Bleaching of wood pulp; effect of temperature on bleaching of sulfite pulp. C. E. Curran and P. K. Baird. Tech Assn Pa ser 8:95-100 '25; Same. Paper Tr J 79:45-7 S 11 '24

Bleaching of wood pulp; factors effecting the process, and their control. C. E. Curran and P. K. Baird. diag Tech Assn Pa ser 7:63-8 Je '24; Same. Paper Tr J 79:56-8 Jl 3; 41-3 Jl 17 '24

Bleaching paper pulp. Color Tr J 13:214-15 D '23

Controlling the bleaching of sulphite pulp. A. M. Cadigan. Tech Assn Pa ser 7:13 Je '24; Same. Paper 34:37 My 1 '24; Same. Paper Tr J 78:39 Ap 17 '24

Determination of the chlorine absorbed by the unbleached sulfite pulp. R. B. Roe. diag Ind & Eng Chem 16:808-11 Ag '24; Same. Paper Tr J 79:43-6 O 9 '24; Excerpt. Paper 34:767-8 Ag 14 '24

Function of the washing drum. R. Haas. diags Paper 34:471-5 Jl 3 '24

History of the chlorination process for pulp. P. Bartholow. Paper Tr J 80:57-8 Mr 5 '25

Improved form of pulp bleaching apparatus. diag Color Tr J 13:217-18 D '23

Menasha printing & carton co.'s new bleaching plant. F. A. Beisel. diag Paper Tr J 79:50+ O 30 '24

Method of bleaching pulp. A: F. Richter. diag Chemicals (Dyestuffs sec) 17:96+ O 12 '25

Operating the first unit for thick bleaching sulphite pulp. H. J. Payne. il diags Chem & Met Eng 29:959-62 N 26 '23

By-products

Black liquor recovery process; the J. E. Plumstead patent. Paper 34:616 Jl 24 '24

Black liquor recovery; the E. G. Goodell patent. diag Paper 34:760-1 Ag 14 '24

Charcoal as by-product of waste liquor. Paper 34:190-1 My 22 '24

Evaporating black liquor. R. W. MacGregor. Paper Tr J 81:57-8 O 1 '25

Manufacturing turpentine as a by-product in the sulphate pulp making process. O. W. A. Rodowski. Paper Tr J 78:75-6 Ap 3 '24

Methods in use for disposal of lime sludge in soda and sulphate pulp mills. G. K. Spence. Tech Assn Pa ser 7:36-7 Je '24; Same. Paper Tr J 78:182-3 Ap 10 '24; Same. Paper 33:108+ Ap 17 '24

Treatment of spent soda liquor. G. K. Spence. Paper 33:7-10 D 27 '23

Utilization of wood waste and sulphite waste liquors in pulp mills. C. G. Schwalbe. il Paper Tr J 78:47-8 Je 26 '24

Waste liquors and gases of the paper industry; survey of the recent domestic and foreign patent literature. A. Schrohe. Paper Tr J 81:62-4 O 1; 54-6 O 8;56-8 O 22; 106-8 O 29; 57-9 N 5; 54-6 N 12; 57-8 N 19; 55-6 N 26; 61-3 D 3; 50-2 D 10; 47-50 D 17; 50-2 D 24 '25 (to be cont)

See also Lignone; Sulfite liquor; Turpentine

Calcium polysulfide process

Bamboo polysulphide cook. C. B. Davies. Paper 35:501-2 Ja 8 '25

Calcium polysulphide pulping process. A. Tingle. Paper 34:1000-2 S 18 '24

Experiment with Tingle's polysulphide pulp process. R. H. Stevens. Paper 35:63 O 30 '24

Polysulphide pulp; Tingle's process makes strong fiber from wood waste cooked with lime and sulphur and beaten in spent sulphite liquor. A. Tingle. Paper 34:653-4 Jl 31 '24; Same abr. Chem & Met Eng 31:230-1 Ag 11 '24

Tingle *versus* Drewsen. A. Tingle. Paper 35: 134-5 N 13 '24

See also Paper making—Drewsen process

Chlorine process

La cellulose au chlore; méthodes au chlore gazeux et à l'eau de chlore. U. Pomilio. il Chimie & Ind 11:423-33 Mr '24

PAPER making—Chlorine process—*Continued*
Le chlore et la cellulose; état actuel et avenir de cette industrie. U. Pomilio. Chimie & Ind 11:1091-2 Je '24
Chloruration de la cellulose. A. de Perdiguier. il Chimie & Ind 11:1086-90 Je '24
Genesis of chlorine pulp process set forth briefly; status of the two processes of Cataldi-Pomilio and de Vains-Peterson. Paper 34:966 S 11 '24

See also Paper making—Bleaching; Paper making—De Vains process

Bibliography

Chlorine in the manufacture of paper pulp. C. J. West. Paper Tr J 79:43-4 O 2 '24

Classification

Paper manufacture as an integral industry; equipment, machinery and supplies; classification of paper manufacture by departments. W: G. MacNaughton. Paper Tr J 78:219+ Ap 10 '24

De Vains process

Chlorination treatment of Kraft pulp. A. Papineau-Couture. Paper 35:314-17 D 11 '24
Criticism of De Vains' process. Paper 34:757-8 Ag 14 '24
De Vains process explained. J. Strachan. Paper 35:8-10 O 23 '24
De Vains process for paper from waste fibrous materials. J. F. Clerc. flow sheet il diags Chem & Met Eng 30:259, 262-5 F 18 '24; Same. Paper Tr J 78:43-7 F 21 '24
De Vains process in detail. J. Strachan. il Paper 33:5-7 Ja 24; 12-13 F 14 '24
De Vains' process patented in U.S. Paper 34: 618 Jl 24 '24
Pulp from straw or wood. W. Schacht. Paper Tr J 80:62 Je 4 '25
Schacht & Strachan on De Vains process. Paper 35:131-3 N 13 '24
Straw pulp in Canada. J. Strachan. Paper 34: 802 Ag 21 '24

Drewsen process

Interesting straw pulping invention. Paper 35:141-2 N 13 '24
Klein questions validity of Drewsen's sulphite process. A. St Klein. Paper 35:511 Ja 8 '25

Fillers

Bentonite and its properties. J. Alexander. Paper 35:100 N 6 '24
Calcium sulfate as a paper filler. Chemicals 24:17 S 28 '25
Comparison of American and foreign clays as paper fillers. M. B. Shaw and G: W. Bicking. il charts U S Bur Stand Tech Pa 262:337-80 [bibliog. p. 379-80] '24; Same abr. Paper Tr J 79:77-84 N 27 '24
Economical use of fillers. Paper 35:365-6 D 18 '24
English china clay as paper filler. Chem Age (Lond) 12:sup9 My 16 '25
New ideas on paper fillers. H. P. Biedermannsdorf. Paper 33:13-14 Ja 10 '24
Paper fillers and loaders. Chem Age (Lond) 11:sup18-19 Ag 16 '24
Saving filler losses in paper manufacture. Chem Age (Lond) 12:sup 12 Ap 18 '25
Substitutes for china clay. Paper 33:9 Mr 27 '24
Types of papermakers' fillers; abstracts. E. G. Milham. Paper 34:372-3 Je 19 '24; Chem Age (Lond) 11:sup16 Jl 19 '24
Use of Canadian talc in papermaking. W. C. Lodge. il Paper 33:22-5 Ja 31 '24

Moisture tests

Moisture tests for pulp. diags Paper 34:419-20 Je 26 '24

Patents

Continuous pulping process; Olier patent. diags Paper 35:227-31 N 27 '24
Developments in sulphite and sulphate practice in the pulp mill. diags Chem & Met Eng 29:893-5 N 12 '23; Same. Paper Tr J 77:54-5 D 13 '23
Modified sulphite process. Paper Tr J 78:52 Ja 3 '24
New pulping process; intense agitation by rotating blades in alkaline liquid under stream of sulphur dioxide. Paper 34:1048-9 S 25 '24
Novel process for adding rubber to parchmentized paper. Paper 34:968 S 11 '24
Paper recovery system; continuous de-inking process. diag Paper 33:16-17 F 28 '24; Chem & Met Eng 30:481 Mr 24 '24
Patent on Kaye's rubber paper. Paper 34:626 Jl 24 '24

Soda process

Chemical engineering methods in soda pulp production. H. J. Payne. il Chem & Met Eng 30:817-22 My 26 '24
Chemistry in the soda pulp process. M. L. Griffin. Tech Assn Pa ser 8:20-1 '25; Same. Paper Tr J 80:144-5 F 5 '25; Same. Paper 35:62+ F 12 '25
Continuous causticizing plant of Penobscot chemical fibre company, Great Works, Maine. W. D. Mount. Tech Assn Pa ser 7:44-5 Je '24; Same. Paper Tr J 78:190-1 Ap 10 '24; Same cond. Paper 33:144 Ap 17 '24
Countercurrent digestion of wood. R. T. Haslam and W. P. Ryan. flow sheet diag Ind & Eng Chem 16:144-6 F '24
Novelty in digestion liquors; a process of combining sulphur with lime sludge by a calcining process. Paper 34:560-1 Jl 17 '24
Report of soda pulp committee. Tech Assn Pa ser 8:40 '25; Same. Paper Tr J 80:175 F 5 '25; Same. Paper 35:66 F 12 '25
Soda pulp; Technical association of the pulp and paper industry sectional meeting. Tech Assn Pa ser 7:184-9 Je '24

Study and teaching

French school of paper making at the end of 1922. L. Barbillion. Paper Tr J 79:49-50 N 13 '24
Teaching micrography at the French school of paper making at Grenoble. L. Vidal. Paper Tr J 79:49-50 N 20 '24
Training in the pulp and paper industry. M. L. Griffin. Paper Tr J 81:50-1 O 8 '25
The why and wherefore of our course in pulp and paper making. H. E. Weston. Paper Tr J 79:54+ O 30 '24; Same. Paper 35:101-2 N 6 '24

Sulfate process

Complexity of the industrial chemist. H. K. Moore. il diags Ind & Eng Chem 17:209-11 F '25; Same. Oil Paint & Drug Rep 107:20+ F 2 '25; Same. Chem Age 33:53-5 F '25; Same. Soc Chem Ind J (Chem & Ind) 44: 1090 N 6 '25
Kraft, true and imitation. B. T. McBain. Paper 34:1086-7 O 2 '24
Malodorous substances in sulphate. P: Klason. Tech Assn Pa ser 7:133-6 Je '24; Same. Paper Tr J 79:30+ Jl 10 '24
Manufacturing turpentine as a by-product in the sulphate pulp making process. O. W. A. Rodowski. Paper Tr J 78:75-6 Ap 3 '24
Modified system of cooking pulp by the alkaline processes. R. Woodhead. diag Paper Tr J 80:91-3 Ap 2 '25
Possibility of pulping with a mixture of lime and of sodium sulphate. M. Brot and H. Men. Paper Tr J 81:50-2 Jl 23 '25
Report of sulphate pulp committee. Tech Assn Pa ser 8:14 '25; Same. Paper Tr J 80: 138 F 5 '25; Same. Paper 35:48 F 12 '25
Sulphate pulp possibilities in Russia. K. Breitveit. Paper 34:289-90 Je 5 '24
Use of preliminary impregnation in cooking wood by the alkaline processes. S. D. Wells, J. A. Staidl and R. Grabow. chart diag Tech Assn Pa ser 8:84-6 '25; Same. Paper Tr J 80:55-7 Mr 12 '25

Sulfite process

Action of aqueous sulphurous acid on lignocellulose. C. F. Cross and A. Engelstad. Soc Chem Ind J 43:253-7; 44:267-70 Ag 1 '24, Je

PAPER making—Sulfite process—*Continued*
5 '25; Same (pt 1). Paper Tr J 81:45-8 Ag 20 '25; Abstract (pt 2). Paper 35:803 Ag 21 '24
Alfthan-Serlachius method; manufacturing white sulphite cellulose from resinous woods. il Paper Tr J 81:52-3 Ag 20 '25
Bleaching of wood pulp. C. E. Curran and P. K. Baird. Tech Assn Pa ser 8:95-100 '25; Same. Paper Tr J 79:45-7 S 11 '24
Chemistry and heat in sulphite work. A. St Klein. Paper 35:581-5 Ja 22 '25
Chemistry of the sulphite process. R. Sieber. diags Paper 34:749-52 Ag 14 '24
Chemistry of the sulphite process; effects producible by variation in pressure. R. N. Miller and W. H. Swanson. Paper Tr J 79:48 O 16 '24; Same. Paper 34:1194 O 16 '24
Chemistry of the sulphite process; relative effects of temperature and acid concentration. R. N. Miller and W. H. Swanson. Tech Assn Pa ser 7:32-5 Je '24; Same. Paper Tr J 78:178-81 Ap 10 '24
Chemistry of the sulfite process; studies of the acid hydrolysis of wood. R. N. Miller. and W. H. Swanson. diag Ind & Eng Chem 17:843-7 Ag '25; Same. Paper Tr J 81:53-7 S 10 '25
Cooking for sulphite pulp. Paper 35:663-5 F 5 '25
Cooking of sulphite cellulose. G. P. Genberg. Tech Assn Pa ser 7:14-22 Je '24; Same. Paper Tr J 78:160-8 Ap 10 '24
Digester control in pulpmaking. B. H. Moerbeck. Paper 35:360-2 D 18 '24
Heat problems in a sulphite mill. A. H. Lundberg. Paper Tr J 78:41-5 My 29 '24
Investigation of pulp reddening. Paper 34: 702-3 Ag 7 '24
Liquid sulphur dioxide process for sulphite pulp. R. H. McKee and D. E. Cable. diag Paper Tr J 77:101-4 O 18 '23; 78:53-6 Mr 6; 47-50 Mr 13 '24; 80:41-6 Ap 23 '25
Modified sulphite process. Paper 34:1054 S 25 '24
New method of control of sulphite pulp cooking. E. Fleury. Can Chem & Met 9:16-18 Ja '25
New recovery system utilizes waste gas and heat; Clemm's method of regenerating sulphurous acid. diag Paper 35:332 D 11 '24
Problem in sulphite. Paper Tr J 78:41-2 Ja 10 '24
Pulp and paper manufacture. flow sheet Ind & Eng Chem 16:806-7 Ag '24
Pulp from different parts of the tree. E. Hägglund. Paper Tr J 81:45-7 Jl 9 '25
Reddening of sulphite pulp. E. Oeman. Am Dyestuff Rep 14:306-9, 319-20 My 4-18 '25
Report of committee on sulphite pulp. Tech Assn Pa ser 8:14 '25; Same. Paper Tr J 80: 138 F 5 '25; Same. Paper 35:66 F 12 '25
Ritter-Kellner or Mitscherlich. H. Moerbeck. Paper 35:622-4 Ja 29 '25
Some sulphite mill calculations. W. B. Van-Arsdel. Paper 33:6 D 27 '23; 12-13+ Mr 6; 34:1184-7 O 16 '24; Paper Tr J 80:55-7 My 7 '25
Sugar formation in a sulfite digester; quick-cook process. E. C. Sherrard and C. F. Suhm. Ind & Eng Chem 17:194-5 F '25
Sulphite process is unscientific. Paper 34:803 Ag 21 '24
Theoretical and practical investigations in the sulphite process. R. Sieber. Paper Tr J 79:55 N 20 '24
Utilization of decayed wood in the chemical processes. J: D. Rue, R. N. Miller and C. J. Humphrey. il Tech Assn Pa ser 7:79-83 Je '24; Same. Paper Tr J 78:44-8 My 15 '24
What causes liming of blowpits? Paper 34: 605-11 Jl 24 '24
Wood in bleached sulphite pulp. J: D. Rue, R. N. Miller and C. J. Humphrey. Tech Assn Pa ser 8:82-3 '25; Same. Paper Tr J 80:49-50 F 26 '25

Tables, calculations, etc.
Some sulphite mill calculations. W. B. Van-Arsdel. Paper 33:6 D 27 '23; 12-13+ Mr 6; 34:1184-7 O 16 '24

Terminology
Definition of paper terms. F. A. Curtis and C. J. West. Paper Tr J 78:51-4 Ja 17; 50-2 Ja 24; 54-7 Ja 31; 56-8 F 7; 60-2 F 14; 50-2 F 21; 59-62 Mr 6 '24; Same abr. Paper 33: 66+ Ap 17 '24

Tingle process
See Paper making—Calcium polysulfide process

PAPER making machinery
Account of Kutter's formation table stirs criticism. Paper 35:140 N 13 '24
Alexander electric paper dryer. J: E. Alexander. il diags Tech Assn Pa ser 8:7-10 '25; Same. Paper Tr J 80:131-4 F 5 '25; Same. Paper 35:114+ F 12 '25
Automatic regulator for Fourdriniers. diags Paper 34:1146 O 9 '24
Beater of today. C. W. Shartle. il Paper Tr J 78:48-9 My 22 '24
Beating and refining engine. diag Paper 34: 899-900 S 4 '24
Breaking down of china clay for papermaking. S. Leicester. il Chem Age (Lond) 10:sup 11+ Ja 19 '24
Buying of paper mill machinery. J. A. Cameron. Paper 34:873 Ag 28 '24
Camachine score cut; its advantages as applied to slitting and roll-winding machines. J. A. Cameron. diag Paper 34:40 My 1 '24
Combination operating and load regulating valve for pulp grinders. il Paper Tr J 77: 48 D 6 '23
Comminuting paper pulp. diag Paper 33:13-14 Ja 3 '24
Comparative efficiency of pulp grinders. W. A. Munro. Tech Assn Pa ser 7:35 Je '24; Same. Paper Tr J 78:181 Ap 10 '24; Same. Paper 33:112 Ap 17 '24
Complete automatic control system for paper machines. il diags Paper Tr J 80:46-8 Je 25 '25
Continuous grinding. J. F. Heaney. il diag Paper Tr J 81:60-4 Jl 2 '25
Development in paper drying with Alexander drier. S. A. Staege. il Tech Assn Pa ser 8: 10-13 '25; Same. Paper Tr J 80:134-7 F 5 '25; Same, without il. Paper 35:118+ F 12 '25
Development in papermaking machinery. A. N. Russell. Paper 33:38+ Ja 17 '24
Development in wood grinders towards achieving highest efficiency in producing mechanical pulp. O: J. Goeppinger. il diags Paper Tr J 78:43-8 Ja 10 '24
Digester linings of past and present. O: Heijne. Paper Tr J 80:61-2 Je 4 '25
Dorr saveall. M. C. Fleming. diag Tech Assn Pa ser 7:62 Je '24; Same. Paper Tr J 78: 199 Ap 10 '24
Finishing room machinery. O. C. Cordes and W. W. Spratt. il Paper 34:422-5 Je 26 '24
Finland's largest paper making machine. il Am Exporter 94:95+ Mr '24
Flywheel power or centrifugal force. J: W. Brassington. diags Paper 34:365-7 Je 19 '24
Grosskraftschleifer. F. Hoyer. Zeit Ver Deutsch Ing 69:756-9 My 30 '25
Ha-Co washing systems for old paper stock. A. J. Haug. diags Paper Tr J 77:53-4 N 15 '23
High speed machine construction. E. J. Neese. Paper 34:428-31 Je 26 '24
Hints on sewing the wire. S. E. Austin. il Paper Tr J 77:51-3 D 13 '23
Latest in paper machine construction. H. L. Kutter. Paper 34:284 Je 5 '24
Manufacture of corrugated cardboard. Paper 33:17 F 7 '24
Measure of slowness. A. B. Green. Paper Tr J 78:51-2 Mr 13 '24
Measuring water squeezed from paper stock. diags Paper 33:25 Ap 10 '24
Model paper-making plant at the British Empire exhibition. il diags plan Engineer 138: 95-9, 106 Jl 25 '24
Modified beater for bamboo. diags Paper 34: 379-80 Je 19 '24

PAPER making machinery—*Continued*
New continuous dewatering machine for the pulp and paper industry. il Paper Tr J 78: 47 F 21 '24
New developments in refining and finishing of paper pulp; use of Hurrell homogenizer. K. A. Pelikan. Paper Tr J 81:52-4 O 22 '25
New type magazine grinder. diags Paper 34: 1188-93 O 16 '24
Pocket grinders vs. magazine grinders. T: J. Keenan. Paper 34:1088-9 O 2 '24
Refiners for groundwood tailings. C. K. Andrews. charts Tech Assn Pa ser 8:26-9 '25; Same. Paper Tr J 80:150-3 F 5 '25
Removal of water by couch system. Paper 34: 328-9 Je 12 '24
Shartle continuous beater. diags Paper 34:38-9 My 1 '24
Special soft rubber rolls for paper machines. R. H. Whitney. Tech Assn Pa ser 7:46-7 Je '24; Same. Paper Tr J 78:192-3 Ap 10 '24; Same. Paper 33:130+ Ap 17 '24
Systematic examination of a paper machine suction box. diags Paper Tr J 81:51-2 S 10 '25
Two-roll or three-roll news machines. R. S. Johnson. Paper 34:665-6 Jl 31 '24
Vacuum paper machine dryer. O. Minton. diags Tech Assn Pa ser 7:1-13 Je '24; Same. Paper Tr J 78:147-59 Ap 10 '24; Same cond. Paper 33:50+ Ap 17 '24; Discussion. Tech Assn Pa ser 7:182-4 Je '24
Vielmotorenantriebe für papiermaschinen. W. Stiel. diags Elektrotech Zeit 46:445-50, 493-7 Mr 26-Ap 2 '25

See also Calenders; Electric driving—Paper mills; Evaporators; Fourdrinier wire; Paper drying

Bearings

Anti-friction bearings on highspeed newsprint machines. G: H. Spencer. il diags Paper Tr J 78:46-9 My 29 '24
Cutless bearings for paper mills. C. F. Sherwood. Paper 34:565-7 Jl 17 '24
Hoffman roller bearings in paper making machinery. D. E. Batesole. Tech Assn Pa ser 7:86 Je '24; Same. Paper Tr J 78:201 Ap 10 '24
Most efficient type of bearing for paper machinery. G: H. Spencer. il diags Tech Assn Pa ser 7:101-5 Je '24; Same. Paper Tr J 78:209+ Ap 10 '24

Failures

Explosion of a paper machine drying cylinder. Locomotive 35:66 Jl '24

Gearing

Speed reducers; their advantages and applications in the paper industry. J. R. Shays, jr. il Paper Tr J 81:51-3 O 15 '25

Patents

Ardleter's beater patented. diags Paper 35:318-19 D 11 '24
Bandless beater roll and bar. diags Paper Tr J 81:47-50 S 17 '25
Improved stuff box. diag Paper 35:556 Ja 15 '25
Improved type of pulp refiner is patented in France by Samuel Milne. diags Paper 35: 329 D 11 '24
Pulp washing apparatus; patent. diag Paper 34:710 Ag 7 '24
Sigurd Smith's beating engine. diags Paper 34:439 Je 26 '24
Suggestions on pulp manufacture; patents. il Chem & Met Eng 30:678-9 Ap 28 '24

PAPER making materials
British Guiana woods proposed for papermaking; tests of several woods develop their value as sources of pulp and paper. Paper 34:947 S 11 '24
Caroá fiber as a papermaking material. M. B. Shaw and R. R. Rumsey. il Tech Assn Pa ser 8:107-9 '25; Same. Paper Tr J 80:47-9 Ja 8 '25
Chemical constituents of flax straw. S. D. Wells and E. R. Schafer. Paper Tr J 80:47-50 Ap 23 '25
China clay and other loading materials. Chem Age (Lond) 10:sup17 F 16 '24
China clay in tinted papers. Chem Age (Lond) 11:sup14-15 D 20 '24
Cotton stalks as paper-making material. M. B. Shaw, G: W. Bicking and R. R. Rumsey. Paper Tr J 81:50-1 Jl 30 '25
Cotton stalks not found available as papermaking material. Paper 34:1183 O 16 '24
Effect of artificially colored clay on fast-to-light paper. G. K. Spence. Am Dyestuff Rep 12:890-1 D 3 '23
Esparto as a paper making material. M. B. Shaw, G: W. Bicking and R. R. Rumsey. il Paper Tr J 81:55-6 S 17 '25
Investigations of paper making materials. Paper Tr J 80:53-4 Ap 9; 81:60 Jl 30 '25
Making paper from wheat straw. C. A. Lovell. il Chem & Met Eng 31:459-62 S 22 '24
Papermakers' alum. G: F. Kennedy. Paper Tr J 81:57-9 Jl 2 '25
Paper makers' chemicals have good year. G. A. Gardner. Paper Tr J 78:87-8 Ap 10 '24
Papermaking fibers. B. S. Summers. Paper Tr J 78:50-4 My 22 '24; Same. Paper 34: 244-6 My 29 '24
Profitable utilization of pine stumps in paper manufacturing. W. D. Robinson. Manuf Rec 85:81-2 My 15 '24
Raw material for paper. A. S. Klein. Paper 34: 194-5 My 22 '24
Sources of pulp in North America. G: J. Druckerman. Paper Tr J 78:36+ Je 12 '24
Substances used in coating paper. G. Belle. Paper 35:444-9 Ja 1 '25
Substitutes for pulpwood. Paper 34:850 Ag 28 '24
Value of domestic clay recognized. G: K. Spence. Paper 35:173-4 N 20 '24; Same. Chem Age (Lond) 11:sup8 D 20 '24
Vegetable fibrous materials. J. Huebner. Soc Dyers & Col J 41:67-8 F '25; Same. Am Dyestuff Rep 14:198-9 Mr 23 '25
War resources of the paper industry. R. G. MacDonald. Paper 34:798-9 Ag 21 '24
Weed wood for paper pulp. Chem & Met Eng 32:620 Jl '25
World's pulp resources; possible substitutes for wood. S. Leicester. Paper 34:465-8 Jl 3 '24

See also Bagasse; Bamboo; Cellulose; Corncobs; Cotton waste; Flax; Paper making—Fillers; Paper sizing; Pine; Sodium silicate; Straw; Waste paper; Wood pulp; Wood waste

Prices

Current market reports. Paper 33:26+ N 29 '23

Testing

Report of materials testing committee. Tech Assn Pa ser 8:65 '25; Same. Paper Tr J 80:235 F 5 '25; Same abr. Paper 35:100 F 12 '25
Standard method for testing rags. Tech Assn Pa ser 8:25 '25; Same. Paper Tr J 80:149 F 5 '25; Same. Paper 35:130 F 12 '25
Standard methods for testing materials in the pulp and paper industry. 30p Tech. assn. of pulp & paper ind., 18 E. 41st st., New York '24

See also Wood pulp—Testing

PAPER mills
Continental has big construction program. Paper Tr J 79:41-2 O 30 '24
Dunn sulphite completes model mill. Paper 35: 138+ F 12 '25
Insulated paper mill roof; asbestos sheet. B. C. J. Beckwith. Paper Tr J 81:58-9 O 1 '25
Modern fine-paper mill; design and equipment. H. M. Grasselt. il diags Eng N 94: 274-6 F 12 '25
Natural combination of industries but an unusual one; lumber and paper. il plan Chem & Met Eng 32:10-12 Ja 5 '25
Paper and pulp mills of the world; map. Paper Tr J 79:66 O 30 '24

PAPER mills—*Continued*

Saranac pulp & paper co. starts new mill at Plattsburgh. il plan Paper Tr J 80:92-5 F 5 '25

Story of McDowell mills starts back 100 years. il Paper Tr J 80:96-8 F 5 '25

Waste heat in pulp and paper mills. Dr von Lassberg. il Paper Tr J 79:45-9 D 11; 49-54 D 18 '24

See also Paper making

Accidents

Hygiene of the pulp and paper industry. F. G. Pedley. J Ind Hygiene 6:28-39; Bibliography. 39-40 My '24

Paper and pulp section accident statistics—1924. Nat Safety N 11:30-1 Je '25

Slight increase in paper and pulp severity rates. Nat Safety N 10:43 Jl '24

Accounting

Accountant and his work in the pulp and paper industry. T: J. Burke. Paper Tr J 79: 51-4 D 25 '24; Same abr. Paper 35:405-7 D 25 '24

Accurate accounting—what it means to the pulp and paper industry. J. A. Reilly. Paper Tr J 78:67-9 Je 5 '24

Budgetary control in a paper mill. E. B. Gray. Paper Tr J 79:36+ N 6 '24

Cost association of the paper industry thirteenth semi-annual convention, Middletown, Ohio. Paper Tr J 80:65-8+ Je 4 '25

How a cost system was started. R. Graves. Paper 35:93-5 N 6 '24

Labor problem. A. Wilkinson. Paper Tr J 80: 55-6; Discussion. 56-8 Ja 15 '25

Practical accounting system for labor costs; how a paper mill controls its labor budget. H. M. Grasselt. Ind Management 70:284-6 N '25

Reliable cost data in the mill. R. Graves. Paper 35:220-1 N 27 '24

Treatment of raw material. H. U. Kiely. Paper Tr J 80:51-4 Ja 8 '25; Discussion. 80: 55-8+ F 12 '25

What the paper mill executive wants from the cost accountant. W. W. Sunderland. Paper Tr J 81:42+ Jl 2 '25

Costs

Steam and power costs. W. G. MacNaughton. Paper Tr J 77:56+ D 27 '23

Steam and white water losses. G. D. Bearce and others. Paper Tr J 80:55-8+ F 26; 69-72 Mr 5 '25

Electric equipment

Dual-frequency supercalender drive. W. H. Scott. il diags Elec W 85:705-7 Ap 4 '25

Electric boilers and digesters in pulp and paper mills. R. Sansone. diags Paper 34: 561-2 Jl 17 '24

Electrical maintenance in paper and pulp mills. H. L. Hayes. Tech Assn Pa ser 7:29-31 Je '24; Same. Paper Tr J 78:175-7 Ap 10 '24; Same. Paper 33:102+ Ap 17 '24

Electrical maintenance in pulp and paper mills. W. W. Cronkhite. Paper Tr J 81:49-51 O 22 '25

Electrical metering instruments in the pulp and paper making industry. O. C. Cordes. il Paper Tr J 78:48-51 Ap 24 '24

Electricity and news print—mostly news print. W. W. Cronkhite. Paper 34:293-4 Je 5 '24

Electricity and paper making. R. H. Rogers. Paper Tr J 78:29+ Mr 13 '24

Electricity in the paper industry. W. W. Spratt. il Tech Assn Pa ser 7:69-73 Je '24; Same. Paper Tr J 78:46-50 Je 19 '24

Model paper-making at Wembley; the Harland sectional electric drive. il Elec R (Lond) 95:674-5 O 31 '24

Newsprint production; a high speed electrically driven paper machine installation. il Electrician 92:485 Ap 18 '24

See also Paper mills—Power

Employees

Apprenticeship in paper mills. W. G. MacNaughton. Paper 33:27 Ja 17 '24; Same. Paper Tr J 78:49 Ja 10 '24

Experiment in apprenticeship; a survey of a New England paper company's attempt to introduce technical experience into the operating department. R. G. Macdonald. Paper 34:1005-7 S 18 '24

Health service work in paper mills. L: H. Frechtling. Paper Tr J 79:36+ O 2 '24

Human factor in the paper industry. E. J. McDonnell. Paper 34:5-7 Ap 24 '24; Same. Paper Tr J 78:42+ My 1 '24

Industrial health program of Canadian paper mills. F. L. McCarroll. il Nation's Health 7:172-5 Mr '25

Position of papermaking in England. Paper 35:543-6 Ja 15 '25

Report of superintendents' educational committee. R. W. Jenkins. Paper Tr J 80:53-4 Je 11 '25

Stabilizing effect of our neutral territory individual agreement. S. L. Bush. Paper Tr J 81:63-4 Ag 6 '25

Training for industry; papermaking. W. G. MacNaughton. Paper Tr J 78:49-50 F 7 '24

Wages and hours of labor in the paper and pulp industry, 1923. U S Bur Labor Statistics Bul 365:1-142 '25; Abstract. Paper Tr J 78:131-2 Ap 10 '24; Same. Monthly Labor R 18:539-44 Mr '24

Equipment

Case for the multiple effect evaporator in the pulp mill. H. Austin. il Chem & Met Eng 29:974-5 N 26 '23

Centrifugal pumps for handling pulp and paper stocks at various consistencies. R. W. Pryor, jr. diags Paper Tr J 77:43-5 N 29 '23

Columbia river paper mill is electrically operated. il Paper 35:244 N 27 '24

Corrosion problems in the pulp plant. il Chem & Met Eng 31:54-6 Jl 14 '24; Same. Paper 34:617-18 Jl 24 '24

Dunn sulphite paper co. completes model mill. il Paper Tr J 79:33-5 O 30 '24

Evaporator problems met in the paper pulp industry. G: K. Spence. Chem & Met Eng 29:972-3 N 26 '23

Handling materials in pulp and paper mills. il diags Paper Tr J 77:45-51 O 25 '23; Same. Cassier's Ind Management 11:161-5 Mr 20 '24

Heat losses in machine room. E. P. Gleason and F. C. Stamm. Paper 33:6+ N 22 '23

Kraft paper made in the South. R. H. Stevens. Paper 34:795-7 Ag 21 '24

Paper manufacture as an integral industry; equipment, machinery and supplies; classification of paper manufacture by departments. W: G. MacNaughton. Paper Tr J 78:219+ Ap 10 '24

Riverside fibre and paper co. starts new mill. il Paper Tr J 79:27-9 O 30 '24

Saranac paper co. starts first unit. il Paper Tr J 79:32+ Jl 31 '24

Study of refractory materials for sulphate smelting furnaces. W: M. Walker. diag Paper Tr J 79:43-6 Ag 21 '24

Transportation within papermills. R. B. Williams. il Paper 33:13-14 D 6 '23

Uses of recording instruments. M. A. Goetz. Paper 34:280-1 Je 5 '24

Well water system in the mill. T. H. Hammond. il Paper 33:11-13 Ja 24 '24

See also Evaporators; Paper making machinery

Heating and ventilation

Air handling and humidity problems in Wisconsin paper mill. A. T. North. il plan Am Soc Heat & V E J 30:101-5 F '24

Heat economy in machine room. T. J. Higgins. Paper 33:19-20 Ja 31 '24

Hygiene of the pulp and paper industry. F. G. Pedley. J Ind Hygiene 6:70-9 Je '24

Reduction of paper cost by utilizing waste heat from the paper machine. J. O. Ross. diags Paper Tr J 77:48-50 N 22 '23

PAPER mills—Heating and ventilation—*Cont.*
Ventilation of paper machine rooms. R. Skagerberg. il diag Tech Assn Pa ser 8: 15-20 '25; Same. Paper Tr J 80:139-44 F 5 '25

Layout

Bogalusa paper co. starts new kraft mill. il Paper Tr J 79:30-2 O 30 '24
New plant for E. B. Eddy co. well under way. il plans Paper Tr J 79:36-8 O 30 '24
Reinforced-concrete wood-pulp paper mill in Oregon. E. L. Williams. il diags Eng N 94: 808-11 My 14 '25

Location

Manufacture of pulp and paper. H. E. Weston. il Ind Management 69:296-302 My '25

Management

Curtailing manufacturing costs. Paper 35:174-6 N 20 '24
Gaging a complicated situation by a simple graphic chart; measure of flow of work of Onaway paper company. charts Harvard Business R 3:475-80 Jl '25
How to cut costs. L. Johnson. Paper 35:661-2 F 5 '25
Paper and pulp manufacturing. S. E. Thompson and W. E. Freeland. Management & Adm 8:397-402 O '24

See also Paper mills—Waste

Power

Activities in the paper and wood pulp industries. G. F. Maughmer. il Paper Tr J 80: 49-62 Mr 19 '25
Application of power to paper making; abstracts. A. H. White. Power 60:281, 477 Ag 19, S 16 '24
Balancing power and process steam in paper mill. H. G. Ingraham. il diags plan Power 62:474-8 S 29 '25
Details of paper-mill drives and power service. H. E. Stafford. il diags Ind Eng 82: 360-7+ Ag '24
Eagle paper company now produces own power. il diags Power Pl Eng 29:497-9 My 1 '25
Generated or purchased power in the paper mill. A. F. Sheehan. Power 62:539-40 O 6 '25
Hydro-electric plant, Pacific mills, ltd. G. S. Barry. il Can Eng 46:161-2 Ja 22 '24
Improvements at Bryant paper co. plant. il Paper Tr J 79:39-40 O 30 '24
Methods of operation at the Paterson parchment paper co. il charts Power Pl Eng 28: 932-6 S 15 '24
New power plant of the Bryant paper co. il diags Power 59:710-15 My 6 '24
Paper mill power drive and motor control layout. C. S. Newcomb. il Ind Eng 83:510-16 N '25
Power problems for the plant engineer. R. W. Leeper. Paper Tr J 80:55-7 Je 11 '25
Pulverised fuel for boiler firing in a paper mill. il charts diags Engineer 140:292-3 S 18 '25
Saving fuel in paper plants. J. A. Madsen. Power 62:457 S 22 '25
Steam and power; important factors of the pulp and paper mill. H. S. Taylor. Paper 34:241-3 My 29 '24
Steam boiler and steam power installations in Canadian paper mills. B. F. Haanel. diags Paper Tr J 79:123-5 O 30 '24; Discussion. C: H. Leicester. 80:45-6 Ja 15 '25
Steam distribution, pumping extravagance and practical suggestions for improvement. F. C. Farnsworth. Paper Tr J 79:43-7 Jl 24 '24
Steam prime movers for the paper mill. R. W. Leeper. Tech Assn Pa ser 8:22-5 '25; Same. Paper Tr J 80:146-9 F 5 '25
Steam turbine application in pulp and paper mills. A. G. Darling. il Paper Tr J 77:56-60 D 13 '23; Same. Paper 33:10-12 D 20 '23
Trend in New York state is to segregate hydro-electric generation from paper manufacture. Elec W 85:1146 My 30 '25
Turbines vs. motor generators. F. O. White. Tech Assn Pa ser 7:38 Je '24; Same. Paper Tr J 78:184 Ap 10 '24
2600 h.p. motors for a paper pulp mill. il Engineer 140:95-6 Jl 24 '25
Use of superheated steam in power generation for wood-pulp and paper mills. J. D. Morgan. Power 59:613-14 Ap 15 '24; Discussion. 59:875 My 27 '24
Water power in the pulp and paper industry of Canada; abstracts of report. Paper Tr J 79:46-7 Ag 21 '24; Power 60:112 Jl 15 '24

Safety devices and measures

Bond of safety at Hammermill. J: M. Sandel. il Nat Safety N 10:9-12 Jl '24
Bond of safety interest in a neighborly plant. J: M. Sandel. il Nat Safety N 12:7-8 S '25
Compete for world records in Kimberly-Clark plants. il Nat Safety N 10:23-4 My '24
Good business to protect your employees. H. F. Obermanns. Paper 33:12 F 7 '24
Safety rules for mill workers. Paper 34:676 Jl 31 '24
Waste in the pulp and paper industry. B. T. McBain. Paper Tr J 78:42 Ja 10 '24

Waste

Economy of lime reburning. G. K. Spence. Tech Assn Pa ser 8:60-1 '25; Same. Paper Tr J 80:223+ F 5 '25
Heating losses. E. P. Gleason. Paper Tr J 77:55 N 15 '23
How to measure white water losses. V. P. Edwardes. diags Paper Tr J 80:46-9 Ap 30 '25
Pollution of streams by pulp-mill wastes. G: C. Whipple. Paper Tr J 79:46-9 S 18 '24
Report of the committee on waste. Tech Assn Pa ser 8:62-3 '25; Same. Paper Tr J 80:227+ F 5 '25; Same. Paper 35:98+ F 12 '25
Report of the sub-committee on white water utilization. Tech Assn Pa ser 8:161-3 '25
Report on commercial-mill test for clay retention in paper and losses in white water. Paper Tr J 79:119-22 O 30 '24
Steam and white water losses. G. D. Bearce and others. Paper Tr J 80:55-8+ F 26; 69-72 Mr 5 '25
Treatment and disposal of strawboard wastes. H. B. Hommon. Paper Tr J 79:44-6 S 18 '24
Treatment of industrial wastes. H. P. Eddy. Eng & Contr (W W) 60:1261-2 D 12 '23
Waste in the pulp and paper industry. B. T. McBain. Paper 33:10-12 N 29; 12 D 6; 13 D 20; 13 D 27 '23; 25 Ja 3; 27 Ja 24; 34:45 My 1 '24
Waste in the sulphite industry. O. L. Berger. Paper 33:8-9 N 29 '23
Waste problem at newsprint mills. V. P. Edwardes. Paper Tr J 80:58-60 Je 11 '25
Waste recovery. Dr. von Possaner. Paper Tr J 81:53-5 Ag 6 '25
Wastes from pulp and paper mills chemically considered. H. W. Clark. Paper Tr J 79:43-4 S 11 '24
White water coagulation. L. E. McGrath. il Tech Assn Pa ser 8:79-81 '25; Same. Paper 35:44+ F 12 '25; Same. Paper Tr J 80:46-8 F 26 '25
White water economy. L. M. Booth. Tech Assn Pa ser 7:105 Je '24; Same. Paper 33: 39 Ap 17 '24
White water losses and stream pollution. Paper Tr J 79:49-54 D 4 '24
White water problem from German viewpoint. A. Janata. Paper Tr J 80:51-4 My 7 '25
White water utilization. V. P. Edwardes. Paper Tr J 80:94-6 Ap 2 '25

See also Bark

California

Pioneer paper co. builds felt mill at Los Angeles; manufactures roofing felt, sheathing paper and light weight chip board. il Paper Tr J 79:43-4 O 30 '24
Pioneer paper mill of California. E. H. Holden. il Paper Tr J 81:38+ N 5 '25

PAPER mills—*Continued*

Canada

New Eddy mill now operating at Hull, Que. Can Eng 48:478 My 12 '25
Price bros. & co., ltd. complete Riverbend mill. il Paper Tr J 81:49-51 O 29 '25
Rise of Price bros. & co. Paper 35:311-13 D 11 '24

Europe

Through the paper mills of Europe. il Paper 33:17-20 Ap 10 '24

Louisiana

$1,250,000 paper mill operating in Louisiana. il Manuf Rec 87:87-8 F 19 '25

Minnesota

New Cloquet mill successfully operating. Paper Tr J 78:31-3 My 1 '24

Newfoundland

Big news print mill starts at Corner Brook, Nfld. il Paper Tr J 81:42-7 O 29 '25
Newfoundland's new mill site. Paper 35:15 O 23 '24

North America

Paper and pulp mills of North America; map. Paper Tr J 79:64 O 30 '24

Oregon

Reinforced-concrete wood-pulp paper mill in Oregon. E. L. Williams. il diags Eng N 94: 808-11 My 14 '25

Pacific coast

Rapid development in paper industry on coast. G: D. Bearce. il diag Paper Tr J 79:23-6 O 30 '24

Southern states

Kraft paper made in the South. R. H. Stevens. Paper 34:795-7 Ag 21 '24

Washington (state)

Pacific straw paper and boards co.'s plant at Longview, Wash. Paper Tr J 81:55 O 29 '25

PAPER money

And now we're promised better money. Ptr Ink 132:41 S 3 '25
Paper money may be reduced in size. R. A. Lewis, jr. il Am Bankers Assn J 18:317-19 N '25
Treasury department printing greater amount of paper money than ever before—proposed changes in denominational issues. Comm & Fin Chr 120:2771 My 30 '25
Uncle Sam plans to tidy up the paper money. L. Alexander. Am Bankers Assn J 17:745+ Je '25

Restoration

Putting the breath of life into dead money; mutilated money and charred Liberty bonds. R. A. Lewis, jr. Am Bankers Assn J 17:25-7+ Jl '24

PAPER plates

Manufacture

Feeding devices for automatic machinery. A. A. Dowd. diags Mach 31:859-63 Jl '25

PAPER products

Statistics

Production, consumption and shipments. Survey of Cur Business 46:28 Je '25

PAPER research

Paper laboratory submits report. Paper Tr J 77:26-7+ D 20 '23
Paper research of the Bureau of standards during the fiscal year 1923-24. B. W. Scribner. diag Paper Tr J 80:34+ Ja 15 '25
Recent paper research of Bureau of standards. B. W. Scribner. il Paper Tr J 81:51-6 S 24 '25
Research work of National folding box association. Paper Tr J 81:30+ Jl 9 '25

Bibliography

Paper research literature, VII (revised); a list of contributions by members of the U.S. Bureau of standards, 1910 to December 31, 1924. C. J. West and B. W. Scribner. Paper Tr J 80:46-52 My 21 '25

PAPER rolls

Cause and cure for welts or wrinkles in the surface of rolls of paper. il diag Paper Tr J 81:32+ Jl 23 '25
Importance of good rolls. J. A. Cameron. Tech Assn Pa ser 7:100 Je '24; Same. Paper Tr J 78:207 Ap 10 '24

PAPER sizes

Simplification in printed matter. J: Sullivan. Ptg Art 44:147-51 O '24

PAPER sizing

Action of rosin and alum in sizing paper. C. G. Schwalbe. Paper 33:9-10 Ja 24 '24
Alum in sizing. J. Crolard. Paper 35:667-8 F 5 '25
Aluminum salts from clay for paper sizing and filling. Chem Age 32:204 Ap '24
Asa process. E. Westarp. Paper Tr J 78:77 Ap 3 '24
Casein and its industrial applications. Soc Chem Ind J (Chem & Ind) 44:989-90 O 9 '25; Same. Can Chem & Met 9:222 O '25
Colloid studies in rosin sizing. R. Lorenz. Tech Assn Pa ser 7:140-61 Je '24; Same. Paper Tr J 78:61-8 Je 5; 47-52 Je 12; 43-5 Je 19; 52-4 Je 26; 79:51-5 Jl 3 '24
Colloids and papermaking. R. Fournier. Paper 34:477-80 Jl 3 '24
Destruction and restoration of sizing quality in paper. N. D. Ivanov. il diag Paper Tr J 79:41-4 Jl 10 '24
Detection of animal size in surface sized papers. F. T. Carson. Tech Assn Pa ser 7: 22 Je '24; Same. Paper Tr J 78:168 Ap 10 '24; Same. Paper 33:100 Ap 17 '24
Electric theory of rosin sizing. A. Thiriet and P. Delcroix. Paper 35:51-5 O 30 '24
Keeping qualities of paper sized with rubber latex. J. Beckering-Vinckers. Paper Tr J 79:47-9 Ag 28 '24
New developments in refining and finishing of paper pulp; use of Hurrell homogenizer. K. A. Pelikan. Paper Tr J 81:52-4 O 22 '25
New sizing tester for paper. F. T. Carson. il diag Paper Tr J 79:44-5 O 23 '24
Paper drying and effect on sizing quality. Paper Tr J 79:46 Ag 14 '24
Production as affected by rosin sizing. L. W. Crouse. Paper 34:44 My 1 '24
Rosin sizing with hard water. J. Teicher. Paper 34:941-3 S 11 '24
Rubber latex as paper size. J. Beckering-Vinckers. Paper Tr J 79:43-6 Ag 14 '24
Rubber latex as paper size. A. van Rossem and W. Frenzyl. Paper 33:3-7 N 15 '23
Silicate of soda in the paper industry. W: Stericker. Paper Tr J 77:58-60 D 6 '23; Same. Oil Paint & Drug Rep 104:20+ D 3 '23; Same. Paper 33:8-10 D 6 '23
Sizing of paper. L. P. Zhereboff. il Paper Tr J 78:45-53 Mr 27 '24
Sizing tests for paper. M. L. Caust. Paper 33:3-5 D 27 '23
Sizing vs drying. B. T. McBain. Paper 34: 768 Ag 14 '24
Sizing with rubber latex. C. Fenchel. Paper Tr J 79:45-7 O 2 '24
Tendick's rosin size color testing method. Tech Assn Pa ser 8:106 '25; Same. Paper Tr J 80:45 F 12 '25
Testing inkfastness of paper. N: A. Stephens. diags Paper 34:1142-4 O 9 '24
Testing method for degree of sizing paper. F. T. Carson. Paper Tr J 81:47 O 8 '25
Testing paper for permeability to liquids. F. T. Carson. il diags Tech Assn Pa ser 8:91-3 '25; Same. Paper Tr J 80:59-61 Mr 5 '25
What do we know about sizing paper with rosin? E. Sutermeister. Am Dyestuff Rep 13:513-16, 548-52 Ag 11-25 '24

See also Waterproofing of paper

PAPER tape. See Paper, Gummed

PAPER terms. See Paper—Dictionaries; Paper—Terminology

PAPER textiles
Technology of paper yarn textiles. W. Heinke and E. O. Rasser. il Color Tr J 11:176-9, 220-1; 12:33-5, 168-71, 260-2; 13:142-5; 14: 66-8, 193 O-N '22, Ja, Ap, Je, O '23, F, Je '24

PAPER trade journal
Development of the Paper trade journal. il Paper Tr J 80:24-7 F 19 '25

PAPER waste. See Waste paper

PAPIN, Denis, 1647-1714
History and progress of metallurgical science. R. Hadfield. por Engineer 136:475-6 N 2 '23

PARABOLA
Adjustable parabolic curve. il diags Engineer 139:580 My 22 '25; Same. Eng & Contr (Bldgs) 63:1373-5 Je 24 '25
Calcul de l'arc parabolique, doublement encastré, appliqué en particulier aux voûtes surbaissées. L. Légens. diags Génie Civil 87:250-3, 268-71 S 19-26 '25
Constructing parabolas by points. H. E. Warrington. diags Eng N 94:820 My 14 '25
Note sur le calcul rapide des arcs paraboliques. G. Dozoul. diags Soc Ing Civils Bul 76:1019-62, tables A-J, pl 55-61 Jl '23

PARACHOR
Parachor and chemical constitution. S: Sugden and others. bibliog Chem Soc J 127: 1525-40, 1868-74 Jl-Ag '25

PARACHUTES
Les cerfs-volants modernes. R. Caillol. il diags Génie Civil 86:130-4 F 7 '25
French parachute competition. Aviation 17: 1088 O 6 '24
Jumping into space. il Sci Am 132:203+ Mr '25
Thrilling rescue of girl parachute jumper. F. S. Willbur. Aviation 16:283-4 Mr 17 '24
Weight dropping parachutes. Aviation 19:156 Ag 10 '25

PARACYMENE. See Cymene

PARAFFIN
Crystallizing point of paraffin wax. A. P. Bjerregaard. Ind & Eng Chem 17:507 My '25
History of the refining of paraffin wax in Scotland. J. Crooks. Soc Chem Ind J (Chem & Ind) 44:599-602 Je 12 '25
Hydrogenation by the Bergius method. H. I. Waterman and J. N. J. Perquin. diags Inst Pet Tech J 10:670-7 S '24
Hydrogenation in the petroleum industry. H. I. Waterman and J. N. J. Perquin. il Inst Pet Tech J 11:42-50; Discussion. 51-60 F '25
Investigation of the angle of contact between paraffin wax and water. R. Ablett. diags Philos Mag 6th ser 46:244-56 Ag '23; Discussion. A. Ferguson. 47:91-3 Ja '24
Separation of wax from wax distillate. L. D. Wyant. Nat Pet N 16:73+ O 1 '24
Velocity of oxidation of paraffin wax. F. Francis and others. Chem Soc J 125:381-93 F '24

Analysis
Determination of paraffin wax in rubber goods. L. Lagerquist. diag Soc Chem Ind J 44:157-62 Ap 3 '25; Excerpt. India Rubber W 72:473 My '25
Solvent-index of refraction method of determining oil in wax. R. E. Wilson and R. E. Wilkin. Ind & Eng Chem 16:9-12 Ja '24

PARAFFIN hydrocarbons. See Hydrocarbons

PARAFORMALDEHYDE
Conversion of paraformaldehyde into glycollic acid. D. L. Hammick and A. R. Boeree. Chem Soc J 123:2881-2 N '23

PARAGENESIS. See Ore deposits

PARAGRAPHS
Paragraph as you please. A. H. Little. Ptr Ink 132:49-50+ S 24 '25

PARAGUAY

Economic conditions
Position in Paraguay. Economist 100:9-10 Ja 3 '25

PARALLEL operation. See Electric generators, Alternating current—Parallel operation; Electric generators, Direct current—Parallel operation

PARALLELS
Adjustable parallels. W. E. Buck. il Am Mach 63:322-3 Ag 20 '25; Discussion. 63:905 D 3 '25

PARALYSIS
Occupation and general paralysis. Nation's Health 6:41-2 Ja '24

PARANA river, Brazil
Big four in earth's water powers. H. P. Quick. maps Can Eng 47:189-92 Jl 29 '24

PARANITRANILINE red
Applying paranitraniline red. J. S. Heuthwaite. Textile World 64:3025+, 3830+ N 17, D 29 '23
Dyeing loose cotton and cotton yarn with paranitraniline red. Textile Col 47:718-19 N '25
Para red piece dyeing. Am Dyestuff Rep 14: 276 Ap 20 '25

PARANITROBENZOIC acid
Use of para-nitrobenzoic acid as an acidimetric standard. W: M. Thornton, jr., and D. Getz. diag Am J Sci 5th ser 9:176-80 F '25

PARASITES
Insect parasites of insects. S. F. Aaron. il Sci Am 133:184-5 S '25

PARCEL post
Electric cars haul parcel post packages in Berlin. E. Kindler. il Elec Ry J 64:346 S 6 '24
Parcel post as a facility for international merchandising. E: N. Vose. il Dun's Int R 45:43-6 Je '25

PARCHMENT paper
Parchment and vulcanized fiber. H. Postl. Paper 35:96-100 N 6 '24
Parchment paper processes. M. Arnould. Paper 34:1083-5 O 2 '24
Parchmentizing woodpulp articles. A. Tingle. Paper 35:61-2 O 30 '24

PARCO, Wyoming
Parco, desert dream city. Pet Age 16:25 S 1 '25

PARENTS
Program of education for parenthood. T: W. Galloway. Nation's Health 7:26-8 Ja '25

PARIS, France
See also Art—Paris

Architecture
Arsenal at Paris. C. H. Preston. il diags Arch Forum 42:269-72 Ap '25
Interior details from Hotel Gouthiere, Paris, il diags plan Arch Forum 40:117-20 Mr '24
Lithographs by Samuel Chamberlain. Am Arch 128:pl 236-42 S 9 '25
Notes on old Paris houses; with lithographic sketches. S: Chamberlain. Am Arch 126:559-64 D 17 '24
Pour comprendre les monuments de Paris. G. M. Huisman. 391p Hachette, Paris '25

Public works
Construction work in Paris. Eng N 93:959 D 11 '24
Engineering and construction in Paris; plans and progress. Eng N 92:273-4 F 14 '24

Rapid transit
Bus network covers French metropolis. il diags map Bus Transportation 3:27-9 Ja '24
Economic problems of car, bus and boat transport in Paris. Elec Ry J 63:415-17 Mr 15 '24
Paris traffic increases. Elec Ry J 64:369 S 6 '24
Paris transportation facilities. maps Elec Ry J 64:434-5 S 20 '24
Le problème de la circulation dans Paris. Doux. diag Génie Civil 86:612 Je 20 '25
Les transports en commun de la région parisienne. C: Dantin. il maps Génie Civil 85:310-15, 344-5 O 11-18 '24

PARIS, France—*Continued*

Sanitary affairs

Four refuse disposal plants of Paris, France. R. L. Willard. il plan map Eng N 91:844-7 N 22 '23

Subways

Paris to extend its subway system. Elec Ry J 65:747 My 9 '25

PARIS green

Some observations on insecticide manufacture. R. N. Chipman. Chem Age 32:487-8 D '24; Same abr. Soc Chem Ind J (Chem & Ind) 44:421 Ap 24 '25

PARISH houses

Church house, St John's church, Waterbury, Conn.; views and plans. Arch Forum 40: pls 62-4 Ap '24

See also Sunday school rooms and buildings

PARK buildings

Refectory building and boat landing, Columbus Park, Chicago. Am Arch 124:458a-g N 21 '23

PARK CITY, Utah

New era ahead for Park City, Utah. A. B. Parsons. il Eng & Min J 116:1133-5 D 29 '23

PARKERSBURG, West Virginia

Parkersburg—the city of diversified industries. G. W. Dudderar. il Manuf Rec 88: 100-1 N 5 '25

PARKS

Development of Washington. Am Inst Arch J 12:199-201 Ap '24

Municipal recreation park developed from unusual tract. E: H. Prentice. il Eng N 94: 932 Je 4 '25

West Texas mountains a wonderland of beauty. V. Prather. il Manuf Rec 86:67-78 S 25 '24

See also Amusement parks; Camps, Tourists'; National parks and reserves; *also* subdivision Parks under names of cities, e.g. Chicago—Parks

PARKWAYS

See Bronx river parkway

PARR, Samuel Wilson, 1857-

American contemporaries. E: Bartow. por Ind & Eng Chem 17:985 S '25

PARSONS line. See Boilers—Testing

PARTHENON

The Parthenon; its science of forms. R. W. Gardner. 35p New York univ. press, 32 Waverly Place, New York '25

Proposed restoration of the Parthenon. E. A. Gardner. Am Arch 128:109-10 Jl 29 '25

PARTICLES

Determination of distribution of particle size. W. J. Kelly. diags Ind & Eng Chem 16:928-30 S '24; Abstract. India Rubber W 70:795 S '24

Determination of size and distribution of size of particle by centrifugal methods. T. Svedberg and J. B. Nichols. il diag Am Chem Soc J 45:2910-17 D '23

Electric charges carried by individual microscopic particles. T. Sexl. Phys R 26:92-6; Reply. J. B. Derieux. 97-8 Jl '25

New method for the determination of the distribution of size of particles in emulsions. E. O. Kraemer and A. J. Stamm. diag Am Chem Soc J 46:2709-18 D '24

Oil absorption of pigments. J. H. Calbeck. bibliog il Chem & Met Eng 31:377-82 S 8 '24

Particle analysis of clays by sedimentation. E: Schramm and E. W. Scripture, jr. Am Cer Soc J 8:243-52 Ap '25

Photography and measurement of fine particles. H: Green. il J Ind Hygiene 7:155-65 Ap '25

Settling of small particles in a fluid. M. Mason and W. Weaver. Phys R 23:412-26 Mr '24

Size and character of grains of nonmetallic mineral fillers. W. M. Weigel. il U S Bur Mines Tech Pa 296:1-44, pl 1-14 '24

Size of particles with special reference to pigments. C. A. Klein and J. Parrish. Chem Age (Lond) 10:195-6 F 23 '24

Ultra-centrifuge, a new instrument for the determination of size and distribution of size of particle in amicroscopic colloids. T. Svedberg and H. Rinde. il diags Am Chem Soc J 46:2677-93 D '24

Use of scattered light in the determination of the distribution of size of particles in emulsions. A. J. Stamm and T. Svedberg. il diags Am Chem Soc J 47:1582-96 Je '25

See also Brownian movements; Colloids

PARTICLES, Dynamics of. See Dynamics of a particle

PARTITIONS

Properties of gypsum tile. J. M. Porter. Am Soc T M Pro 24 pt 2:901-8 '24

Sound insulating properties of partition walls (chiefly lath and plaster). E. A. Eckhardt and V. L. Chrisler. il diag Am Arch 128: 405-11 N 5 '25

Space saving partition. diag Eng & Contr (Bldgs) 60:1159 N 28 '23; Arch & Bldg 56:7 Ja '24; Concrete 24:82 F '24

PARTITIONS, Office

Industrial partitions in office and factory. F. E. Gooding. il diag Ind Eng 83:23-6+ Ja '25

Modern office partitions. il Eng & Contr (Bldgs) 61:472-3 F 27 '24

PARTITIONS, Steel

Steel partitions a year-round business. il plan Sheet Metal Worker 16:653-4+ O 9 '25

PARTNERSHIP

Different forms of business organization. Bankers M 110:723-5 Ap '25

Employe who pays a business debt and then assumes charge of the business when apparent owner departs, may be proved to be a partner. Dom Eng 109:55+ O 25 '24

Provision in partnership agreement for carrying on the business when one partner dies. Dom Eng 108:51-2 Ag 9 '24

Rights of the estate of a deceased partner in the firm work. C. H. Blake, jr. Am Arch 126:255 S 10 '24

See also Corporation law

PARTY walls. See Walls, Party

PASADENA, California

Architecture

Pasadena, California, stadium. M. Hunt. il diags plans Am Arch 128:341-6 O 20 '25

Sewerage

Tri-cities' activated-sludge plant at Alhambra, Calif. Eng N 95:714-16 O 29 '25

Theaters

Community playhouse. M. Craig. il plans Arch Forum 43:77-80, pl 20-1 Ag '25

Community playhouse, Pasadena; views and plans. Am Arch 128:pl 288-93 N 5 '25

PASSAIC Valley sewer

Completion of Passaic Valley sewer. R. Van Duyne. il map Munic & Co Eng 66:268-71 Je '24

Contractor wins suit to recover losses due to engineer's misrepresentations; Holbrook, Cabot & Rollins corporation held entitled to rescind contract to build Passaic Valley sewer tunnel. Eng N 93:21-4 Jl 3 '24

Passaic Valley sewer. Pub Works 54:376 D '23

Passaic Valley sewer verdict affirmed on appeal; Federal circuit court upholds original decision for Holbrook, Cabot & Rollins in outfall tunnel case. Eng N 95:476 S 17 '25

Poor design of engineering work condemned by court. Eng N 93:676 O 23 '24

PASSIMETERS. See Turnstiles, Fare collecting

PASSIVITY

Passivity. G. C. Schmidt. Chem Soc J 124 pt 2:732-4 N '23

PASTEBOARD. See Paper board

PASTEURIZATION of milk. See Milk—Pasteurization

PATENT laws and legislation
Can America modernize world trade-mark situation? D. Hubbard. Ptr Ink 131:95-6+ Je 18 '25
Chemical research and commercial rivalry. Chem Age 31:508-9 N '23
Common pitfalls of patent ownership. H. A. Toulmin, jr. Am Mach 63:653-4 O 22 '25
Elements of patent law. E. L. Francis. Automobile Eng 15:211-12 Jl '25
Employer's right to employe's invention. C. L. Jenks. Chem Age 32:240-2 My '24
Exchange of patent licenses. F: P. Fish. Elec W 83:1258 Je 14 '24
How to avoid inadvertent patent infringement. H. A. Toulmin, jr. Factory 32:324-5+ Mr '24
Interference procedure; replacing parts of a patented machine. C. L. Jenks. Chem Age 32:464-6 N '24
Lecture on patent law delivered to the engineering students of Purdue university, April 10, 1923. F. Keiper. 54p Frank Keiper, Rochester, N.Y. '23
Litigation of vital importance to business that Supreme court will decide. J: F. Richter, jr. Ptr Ink 125:36+ N 8 '23
Das neue russische patentgesetz. H. Herzfeld. Elektrotech Zeit 45:1212-13 N 6 '24
No, says Sherman law, but patent law says, yes. H. A. Toulmin, jr. Forbes 15:173+ N 1 '24
Le nouveau projet de loi sur les brevets d'invention, comportant notamment l'examen préalable facultatif sur la nouveauté des inventions. A. Lavoix. Génie Civil 86:244-5 Mr 7 '25
Patent cases of 1923. Engineer 137:308 Mr 21 '24
Patent laws of the world. B. Singer. 303p W. B. Conkey & co., Hammond, Ind. '24
Patent litigation—its causes and its results. J. O. Handy. Ind & Eng Chem 16:89 Ja '24
Projet de refonte des lois essentielles concernant la propriété industrielle. A. Taillefer. Chimie & Ind 12:575-84 S '24
La protection de la propriété industrielle. L. Paillard. Chimie & Ind 12:169-72 Jl '24
Rights of employer and employe to patentable inventions. L. Van Doren. Chem Age 31:493-4 N '23
Rights of inventors and patentees; how enforced. W. G. Carr. Elec J 21:434-8 S '24
Russian patent law. Engineer 138:530 N 7 '24
Selected cases on patent law. B: A. Gladwin. 390p Interstate brief and record co., Detroit '24
What American sales managers should know about British patent laws. L. Pocock. Sales Management 6:1031-2 pt 2 My '24
Will clarify world patent and trade-mark situation. D. M. Hubbard. Ptr Ink 132:17-20 Ag 13 '25

See also Electric lamps, Tungsten—Patents; United States—Interdepartmental patents board

Government employees' patents
Federal employe's patents; patents dedicated to the public. C. L. Jenks. Chem Age 32:479-80 D '24
Nitrogen fixation staff patents held in trust. Oil Paint & Drug Rep 106:19 N 24 '24
Patent law applying to government employees alleged to lack clarity. Oil Paint & Drug Rep 106:19 D 15 '24
Patents by employes involve point of constitutionality of use by government. Oil Paint & Drug Rep 106:19+ D 22 '24
Patents secured by federal employees may be controlled by special board. Oil Paint & Drug Rep 106:19+ D 8 '24
Plan to administer patents of government employees. Chem & Met Eng 30:299. 311-14 F 25 '24

PATENT lawyers
Why and how patent advertising is censored. Ptr Ink 129:41-2+ O 9 '24

PATENT office (United States). See United States—Patent office

PATENTS
Assets or liabilities? patents and trade marks as credit factors. M. Wright. Credit M 26: 9+ S '24
Combination patent should be definite; patent on rust remover. W. Gustin. Chem & Met Eng 30:555 Ap 7 '24
Coming—the patent-engineer. il Prof Eng 10: 17-18 Jl '25
Different forms of patent agreements. J. P. Nikonow. Am Mach 61:144 Jl 24 '24
Economics of our patent system. F. L. Vaughan. 288p [bibliog. p. 265-77] Macmillan '25
Die erfindung, von der technik und vom patentrecht aus gesehen. R: Wirth. Zeit Ver Deutsch Ing 69:969-74 Jl 25 '25
Examining patent applications. E. Stringham. 203p J. W. Stowell printing co., Federalsburg, Md. '24
Five facts it pays to know about patents. H. A. Toulmin, jr. Paper Tr J 79:47-9 Ag 14 '24
Industrial property report of International chamber of commerce. Am Mach 62:884 Je 4 '25
Interest of trade associations in patents and trade-marks. K: Fenning. Harvard Business R 3:81-4 O '24; Same. Paper Tr J 79: 114+ O 30 '24
International patent convention. Engineering 119:455 Ap 10 '25
Inventors and patentees. J. R. Langley. Elec J 21:326-30 Jl '24
Inventors, inventions and patent practice. C. L. Jenks. Chem Age 32:135-8 Mr '24
Inventor's manual; how to work a patent to make it pay. G: M. Hopkins. 3d ed., rev. & enl. 138p Henley '24
Needed reforms in the patent system. T: A. Hill. Mach 30:681-4 My '24; Same. Chem Age 32:427-30 O '24
Nine ways to avoid patent suits. H. A. Toulmin, jr. Factory 33:657-8 N '24
Novelty, utility and abandonment of patents. J. H. Procter. Elec J 21:243-7 My '24
Patent law applying to government employees alleged to lack clarity; with list of patents. Oil Paint & Drug Rep 106:19 D 15 '24
Patent policy of the Standard oil company. Chem Age 32:45-7 Ja '24
Patent purchases and license agreements. H. A. Toulmin, jr. Elec W 86:586-7 S 19 '25
Patent rights as an investment basis. J: K. Brachvogel. Sci Am 132:418 Je '25
Patentable inventions; how classified, defined and protected. O. B. Buchanan. Elec J 21: 143-8 Ap '24
Patenting of engineering arrangements. Elec W 82:849, 1322-4 O 27, D 29 '23
Patents. W. G. Carr. Elec J 21:98-102 Mr '24
Patents and the trade association. Chem Age 31:546 D '23
Patents and trade marks. 37p Munn & co., New York '24
Patents board of U.S. bureaus seeks power. Oil Paint & Drug Rep 107:21+ Je 15 '25
Patents: invention and method. H. E. Potts. 160p Open court co., Chicago '24
Practical advice to inventors and patentees. C. M. Linley. 126p Pitman '25
Preparation and prosecution of patent applications. J. R. Langley. Elec J 21:290-5 Je '24
Proposed industrial property agreement soon in conference at The Hague. A. K. Burditt. Am Mach 63:461-4 S 17 '25
La propriété scientifique. F. Ruffini. Chimie & Ind 10:968-80, 1163-85 N-D '23
Protection of scientific discoveries; Ruffini report. Chem Age 32:201-2 Ap '24
Purposes and uses of patent rights. N. Frucht. Eng & Contr (Ry) 61:155-7 Ja 16 '24
Record of achievement, W: I. Wyman. il Sci Am 133:92 Ag '25
Relations of inventions and patents to development. O. S. Schairer. Elec J 21:487-90 O '24
Research as related to patents and patent litigation. H. C. Bierman. Elec J 21:369-73 Ag '24

PATENTS—*Continued*
Reward of scientific discovery. Engineering 117:114-15 Ja 25 '24
Some pitfalls of chemical invention. H. A. Toulmin, jr. and J. Heywood. Chem & Met Eng 32:157-8 Ja 26 '25
Stimulation of research and invention. D. S. Jacobus. Mech Eng 46:575-6 O '24
Suggestions on inventions and patents. R. F. Hatch. Am Mach 60:503-4 Ap 3 '24; Discussion. J. McIntosh. 60:776 My 22 '24
United States patents. Engineer 139:714 Je 26 '25
What are patents worth? H. T. Toulmin, jr. Management & Adm 9:265-6 Mr '25
When to consult a patent attorney. H. A. Toulmin, jr. Factory 32:658-9+ My '24
Why and when to patent abroad. H. A. Toulmin, jr. Nation's Business 12:56+ N '24
See also Boilers, Water-tube—Patents; Chemical patents; Competition, Unfair; Dye patents; Electric lamps, Tungsten—Patents; Electric patents; Inventions; Paper making—Patents; Patent laws and legislation; Patent lawyers; Petroleum refining—Patents; Radio apparatus—Patents; Rubber—Patents; Spinning machinery—Patents; Trade marks; Trade secrets; United States—International patents board; United States—Patent office

Accounting

Exhaustion of patents deductible on tax return. L. Childs. Am Mach 62:424 Mr 12 '25
Patents in the income-tax return. H. A. Toulmin, jr. J Account 40:183-9 S '25

Bibliography

Patent reference sources. J. F. Smith. Ind & Eng Chem 16:527-8 My '24

Indexing

Patents and special libraries. H. E. Potts. Chem Age (Lond) 13:348-9 O 3 '25

PATENTS, Expiration of
Expired patents—liabilities or assets? C. B. Larrabee. Ptr Ink 126:122+ Mr 20 '24

PATENTS, Government
Effort by the Interdepartmental patents board to compile a list of all patents with which the government is concerned. P. Wooton. Am Mach 61:904b D 4 '24
Federal employe's patents; patents dedicated to the public. C. L. Jenks. Chem Age 32: 479-80 D '24
Government patents are made free to be used by industry and public. Oil Paint & Drug Rep 106:19+ N 17 '24
See also Patent laws and legislation—Government employees' patents

PATERA process. See Silver metallurgy

PATINO mines and enterprises consolidated
National lead company does not control Patino tin properties. A. B. Parsons. Eng & Min J 118:663 O 25 '24

PATRICK, Mason M., 1863-
General Patrick reappointed Chief of Air service. por Aviation 19:120 Ag 3 '25

PATTERN making
Brains or tools—which makes the better kit? W. C. Ewalt. Foundry 53:159-60 F 15 '25
Cooperation between machine shop and foundry. J. P. Glynn. Mach 31:13 S '24
Correct malleable casting patterns. H. A. Russell. il Iron Age 115:1331-4 My 7 '25; Discussion. E. O. Keator. 115:1660-1 Je 4 '25
Dowel pins hold pattern parts. W. C. Ewalt. diags Foundry 52:988-9 D 15 '24
Draw angles with the square. W. C. Ewalt. diags Foundry 53:895-6 N 1 '25
Finish patterns with shellac. W. C. Ewalt. Foundry 52:738-9 S 15 '24
Glue used in patternmaking. W. C. Ewalt. Foundry 52:647-50 Ag 15 '24
Good wood aids patternmaker. W. C. Ewalt. diags Foundry 52:611-13 Ag 1 '24
Making globe valve corebox. W. C. Ewalt. il diags Foundry 52:483-5 Je 15 '24
Making metal patterns by electro-deposition. W: J. Reardon. il Metal Ind 21:499-500 D '23; Discussion. 22:73-4 F '24
Making patterns a business asset. E. H. Trick. il Foundry 53:509-11 Jl 1 '25
Making patterns for flanged pulleys. M. E. Duggan. diags Mach 30:792 Je '24
Metal gear patterns. J. F. Hines. il Mach 30:692-3 My '24
Metal strengthens plaster patterns. W: F. Luthmann. Foundry 53:177+ Mr 1 '25
Method of molding a drum-shaped part. M. E. Duggan. diags Mach 30:798 Je '24
Pattern cost lowered by caring for lumber. M. E. Duggan. diag Foundry 52:322 Ap 15 '24
Pattern is altered to facilitate work. D. A. Hampson. diags Foundry 53:660 Ag 15 '25
Pattern rig for making gear blank. M. E. Duggan. diags Foundry 52:33-4 Ja 1 '24
Patternmaker finds use for special cutting tools. W. C. Ewalt. il diags Foundry 53:451-3 Je 1 '25
Patternmaker relies greatly on dovetail joints. W. C. Ewalt. diags Foundry 53:666-7 Ag 15 '25
Patternmaker should study joints. W. C. Ewalt. diags Foundry 53:622-4 Ag 1 '25
Patternmaker uses chisel constantly. W. C. Ewalt. diags Foundry 53:122-4 F 1 '25
Patternmaker uses gouges for roughing out work in much faster time. W. C. Ewalt. il Foundry 53:200-1 Mr 1 '25
Patternmaker utilizes bench. W. C. Ewalt. il diags Foundry 53:80-3 Ja 15 '25
Pattern-making. J: M. Wilson. 140p Constable & co., ltd., London '24
Patterns are made of plaster. W. C. Ewalt. diags Foundry 52:945-6 D 1 '24
Patterns gain strength when proper joints are used. W. C. Ewalt. diags Foundry 53: 536-40 Jl 1 '25
Planes smooth patternmaker's work. W. C. Ewalt. il diags Foundry 53:287-8+ Ap 1 '25
Rapping plates protect patterns from injury. W. C. Ewalt. il Foundry 53:247-8 Mr 15 '25
Rapping plates required on patterns. M. E. Duggan. Foundry 52:275 Ap 1 '24
Rig for production in jobbing foundry. J: Duffy. Foundry 53:149 F 15 '25
Sandpaper used to finish patterns. W. C. Ewalt. Foundry 52:694 S 1 '24
Simplify making of a simple pattern. J. W. Broadbent. diags Foundry 52:613-14 Ag 1 '24
Skeleton pattern plan for turbine casting. W. B. Kresge. il Foundry 53:434-5 Je 1 '25
Special planes assist patternmaker in finishing irregular surfaces. W. C. Ewalt. diags Foundry 53:409-11 My 15 '25
Square is an essential tool in making patterns. W. C. Ewalt. diags Foundry 53:841-3 O 15 '25
Standards, or rules, to be followed in making wooden patterns. M. E. Duggan. diag Am Mach 60:665 My 1 '24
Sweeps a differential pitch; method employed in the foundry to make the propeller mold. J. Edgar. diags Foundry 52:51-2 Ja 15 '24
Tool engineering. A. A. Dowd and F. W. Curtis. diags Am Mach 60:365-8, 407-9 Mr 6-13 '24
Using old castings as patterns. D. A. Hampson. Am Mach 62:588 Ap 9 '25
Wax is patternmaker's friend. W. C. Ewalt. diags Foundry 52:823-4 O 15 '24
Wood pattern making. E. C. Hanley. 208p Bruce pub. co., Milwaukee '24
Wood pattern weighing nine tons. il Iron Age 114:81 Jl 10 '24
See also Fillets, Foundry; Foundry practice; Sheet metal work—Pattern making; Templets

Standards

Pattern and flask equipment standardization. Brass W 20:342-3 O '24; Iron Age 114:1104 O 23 '24
Propose standard pattern equipment. H. O. Haughton. Foundry 52:757 O 1 '24

Study and teaching

Training draftsmen and patternmakers; outline of courses given at the Worcester boys trade school. il diag Mach 30:787-9 Je '24

PATTERN numbering
Marking patterns carefully keeps records straight. W. C. Ewalt. Foundry 53:492+ Je 15 '25
New system brings order from chaos; patterns classified under simple plan. il Foundry 53: 473-5 Je 15 '25
Varnished surface check on patterns. M. E. Duggan. Foundry 52:198 Mr 1 '24

PATTERN storage
Better foundry pattern storage advocated. il Iron Age 115:551-3 F 19 '25
Making patterns a business asset. E. H. Trick. il Foundry 53:509-11 Jl 1 '25
See also Sheet metal shops—Pattern storage

PATTERSON, John H.
John H. Patterson, pioneer in industrial welfare. S: Crowther. 364p Doubleday '23

PAVEMENTS
Les chaussées calcaires silicatées. M. Guelle. Génie Civil 86:509-12 My 23 '25
Criticism of street paving practices. M. L. Patzig. Munic & Co Eng 67:280-2 D '24
Development of laboratory supervision of paving work. H. W. Skidmore. Munic & Co Eng 68:19-21 Ja '25; Same. Eng & Contr (R & S) 63:271-3 F 4 '25
Essais de résistance de dalles transparentes formées d'éléments en verre assemblés par du béton armé. diags Génie Civil 84:109-10 F 2 '24
Paving streets and alleys in Dayton. I. E. Houk. il Pub Works 54:339-42 N '23
Present Chicago paving practice. J: B. Hittell. il W Soc E J 30:298-306 Jl '25; Same. Eng & Contr (R & S) 63:1210-15 Je 3 '25; Same. Munic & Co Eng 69:138-44 S '25
Procedure in paving departments of various cities. Munic & Co Eng 67:78-82 Ag '24
Le revêtement des chaussées au silicate de soude. R. C. Louis. Génie Civil 85:407 N 1 '24
Some pavement types and practices of Texas cities. W. J. Emmons. Munic Eng 65:269-72 D '23
Der strassenbau für den kraftwagenverkehr. W. Reiner. il diags Zeit Ver Deutsch Ing 69:1233-7 S 26 '25
What Europe knows about paving. W. P. Blair. Brick & Clay Rec 63:704-5 N 13 '23
See also Bridges—Floors; Curbs; Roads; Sidewalks; Street railroads—Track pavement; Streets

Contracts
See Pavements—Maintenance guarantee

Cost
Allowable pavement cost based on relative pavement life. E. G. Hooper. Good Roads 56:18-20 Ja '24
Paving costs at Grand Forks. Pub Works 55: 250-1 Ag '24
Paving streets and alleys in Dayton. I. E. Houk. il Pub Works 54:339-42 N '23
Resurfacing badly worn city pavements. R. H. Simpson. Eng & Contr (R & S) 63:1223-6 Je 3 '25

Crowns
Comparison of the parabola and arc of circle for pavement crowns. E: E. Bauer. Eng N 95:274 Ag 13 '25

Cutting
Car plow for tearing up pavement. Eng & Contr (Ry) 62:128 Jl 16 '24
Comparative costs of breaking up concrete by hand and by pneumatic breakers. Eng & Contr (Ry) 61:145 Ja 16 '24
Hardsocg paving breaker. il Eng & Contr (R & S) 64:819 O 7 '25
Methods of securing samples of completed pavements; with reference to the determination of the quality of the cement-concrete foundation. E. E. Butterfield. il Am Soc T M Pro 24 pt 2:1066-79 '24; Same. Eng & Contr (R & S) 62:526-34 S 3 '24; Discussion. Am Soc T M Pro 24 pt 2:1080-3 '24
Plowing asphalt pavement. il Pub Works 56: 335 S '25
Portable pneumatic equipment reduces track reconstruction cost. C. A. Elliott. il Elec Ry J 63:613-15 Ap 19 '24; Same. Eng & Contr (Ry) 62:421-3 Ag 20 '24
Tamping and concrete breaking machine. il Engineer 137:236 F 29 '24
See also Street openings

Design
Allowable pavement cost based on relative pavement life. E. G. Hooper. Good Roads 56: 18-20 Ja '24
Researches on the structural design of highways by the United States Bureau of public roads. A. T. Goldbeck. il chart diags Am Soc C E Pro 50:453-89 Ap '24; Discussion. 50:728, 895-7 My, Ag '24

Fillers
Improved asphalt mastic filler for brick pavements. E. J. Kelley. il Eng N 95:266-8 Ag 13 '25
New asphalt filler for wire-cut brick roads. Eng N 93:797 N 13 '24
New asphalt rail filler. il Eng & Contr (Ry) 62:1141 N 19 '24
Simple method for studying the relative value of mineral fillers for asphalt paving mixtures. P. Hubbard and F: C. Field. Good Roads 68:89-92 Mr '25; Same. Eng & Contr (R & S) 63:980-6 My 6 '25
White joint and crack filler for concrete roads. L. G. Carmick. il Pub Roads 5:21-2 My '24; Same. Good Roads 66:169+ Je '24; Same. Munic & Co Eng 66:263-4 Je '24; Same. Concrete 25:31 Jl '24

Finance
How modern traffic and the city plan affect distribution of paving costs. W. W. Horner. Pub Works 56:86-7 Mr '25
How shall we pay for our street pavements? J: L. Elliott. Munic Eng 65:249-50 D '23

Foundations
Flexible base pavements in the Northwest. K. C. Schmidt. Munic & Co Eng 67:224-9 N '24; Same. Can Eng 47:625-7 D 23 '24; Excerpt. Eng & Contr (R & S) 62:1245-7 D 3 '24
Improving pavement subgrade. C. D. Pollock. Eng N 93:593 O 9 '24; Same cond. Pub Works 55:339-40 N '24; Excerpts. Eng & Contr (R & S) 62:1035-7 N 5 '24
Methods of securing samples of completed pavements, with reference to the determination of the quality of the cement-concrete foundation. E. E. Butterfield. il Am Soc T M Pro 24 pt 2:1066-79 '24; Same. Eng & Contr (R & S) 62:526-34 S 3 '24; Discussion. Am Soc T M Pro 24 pt 2:1080-3 '24
Relation of depth of foundations of pavements to their strength. C. D. Pollock. Munic Eng 65:209-11 N '23; Same. Eng & Contr 60:1192-4 D 5 '23; Same. Good Roads 56:14-15 Ja '23; Same. Concrete 24:154-5 Ap '24; Same cond. Pub Works 55:12-13 Ja '24; Excerpt. Eng N 91:851-2 N 22 '23
See also Roads—Foundations

Maintenance and repair
Maintenance of tar pavements. J: S. Crandell. il Good Roads 65:145-8 N 7 '23
Methods of repairing block pavements in Baltimore. N. L. Smith. Munic & Co Eng 67:124-6 S '24; Same. Eng & Contr (R & S) 64:1009-11 N 4 '25
Pavement resurfacing and reconstruction at Altoona, Pa. H. J. Baum. Munic & Co Eng 67:266-70 N '24; Same. Eng & Contr (R & S) 62:1209-12 D 3 '24
Raising a heavy-traffic street; West street, New York. Pub Works 54:375-6 D '23
Repairing Baltimore pavements; cost. Pub Works 55:283-4 S '24
See also Pavements—Resurfacing; Pavements—Surface treatment; Pavements, Brick—Maintenance and repair; Pavements, Granite—Maintenance and repair; Pavements, Wood—Maintenance and repair

PAVEMENTS—*Continued*

Maintenance guarantee

Pavement guarantees. W. E. Rosengarten. Eng & Contr (R & S) 64:785-8 O 7 '25; Same. Munic & Co Eng 69:135-8 S '25; Same. Good Roads 68:241-2 O '25

Patents

Federal court holds Willite patent invalid. Munic & Co Eng 69:81-4 Ag '25

See also Pavements, Bitulithic

Resurfacing

Laying amiesite pavements, Longueuil. H: Bertrand. il Can Eng 49:317-18 S 15 '25

Pavement resurfacing and reconstruction at Altoona Pa. H. J. Baum. Munic & Co Eng 67:266-70 N '24; Same. Eng & Contr (R & S) 62:1209-12 D 3 '24

Resurfacing and widening existing pavements. A. J. Schafmayer. Eng & Contr (R & S) 63: 972-9 My 6 '25; Same. W Soc E J 30:306-14 Jl '25; Same. Munic & Co Eng 69:105-12 Ag '25; Discussion. W Soc E J 30:314-18 Jl '25

Resurfacing badly worn city pavements. R. H. Simpson. il Eng & Contr (R & S) 63: 961-6, 1223-6 My 6, Je 3 '25

Resurfacing of paved streets at Columbus, Ohio. R. H. Simpson. Eng N 95:758-9 N 5 '25

Resurfacing paved streets. D. I. Elder. Munic Eng 65:227-30 N '23

Resurfacing worn-out pavements. Eng N 94: 979 Je 11 '25

Salvaging old streets by asphalt resurfacing and oiling; papers presented to Asphalt association. Eng N 95:758-61 N 5 '25

Specifications

See Pavements, Concrete—Specifications

Statistics

Street paving in 1924. Pub Works 56:65-72, 119-22 F, Ap '25

Street paving tables 1923. Pub Works 55:64-71, 96-100 F-Mr '24

Subgrades

See Pavements—Foundations; Roads—Subgrades

Surface treatment

Bituminous surface for concrete paving. T. Carmichael. Eng N 95:672-3 O 22 '25

City street maintenance with Tarvia. G: E. Martin. il Eng & Contr (R & S) 61:52-4 Ja 2 '24

Resurfacing old macadam with asphalt—penetration. J. A. McElroy. Eng & Contr (R & S) 62:1241-2 D 3 '24

Surface-treatment in Brownwood, Texas. O. F. Reynaud. il Eng & Contr (R & S) 64: 46-7 Jl 1 '25

Tarring streets in Berwick. Pub Works 56: 72 F '25

See also Pavements—Resurfacing

Testing

Highway research in Illinois. C. Older. il Am Soc C E Pro 50:175-217 F '24; Same cond. Munic Eng 67:103-11 Mr '24; Same cond. Eng & Contr (R & S) 61:981-93 My 7 '24

How highway irregularities are measured by use of the profilometer. diags Automotive Ind 50:1132 My 22 '24

Illinois tests pavement surfaces by profilometer. H. F. Clemmer. il Eng N 92:484-5 Mr 20 '24; Same. Can Eng 47:183-4 Jl 22 '24

Investigations of smoothness of pavements. H. F. Clemmer and D. D. McGuire. il Munic & Co Eng 68:35-7 Ja '25; Same. Eng & Contr (R & S) 63:269-70 F 4 '25; Same abr. Eng N 94:117-18, 246 Ja 15, F 5 '25

Methods of securing samples of completed pavements, with reference to the determination of the quality of the cement-concrete foundation. E. E. Butterfield. il Am Soc T M Pro 24 pt 2:1066-79 '24; Same. Eng & Contr (R & S) 62:526-34 S 3 '24; Discussion. Am Soc T M Pro 24 pt 2:1080-3 '24

Results and application of the Bates road tests. C. Older. W Soc E J 29:225-38; Discussion. 38-40 My '24

See also Pavements, Asphalt—Testing; Pavements, Concrete—Testing

Widening

Resurfacing and widening existing pavements. A. J. Schafmayer. Eng & Contr (R & S) 63:972-9 My 6 '25; Same. W Soc E J 30:306-14; Discussion. 314-18 Jl '25

PAVEMENTS, Asphalt

Amiesite asphalt pavement, hot mix, laid cold. C: A. Mullen. il Can Eng 48:165-8 Ja 27 '25; Same. Good Roads 68:79-82+ Mr '25

Asphalt pavement compositions and cements. J. W. Howard. Good Roads 68:11-12 Ja '25; Same. Can Eng 48:156, 546 Ja 20, Je 2 '25; Excerpt. Munic & Co Eng 67:239-40 N '24

Asphalt pavements in 1923. Pub Works 55:32 Ja '24

Big increase in asphalt paving yardage in 1924. Comm & Fin Chr 120:638-9 F 7 '25

Bituminous pavements for heavy traffic. P. Hubbard. Can Eng 49:313-15 S 15 '25

Choosing asphalt cements to suit traffic and climate. J. W. Howard. Munic & Co Eng 67:184-5 O '24

City of Detroit builds heavy traffic pavements. diag Eng N 93:987-8 D 18 '24

Coarse binder in Philadelphia. Pub Works 55: 34-5 Ja '24

Constructing rock asphalt pavements. I. E. Houk. il Can Eng 47:204-5 Jl 29 '24

Construction methods on wide park-road paving. L. Dangremond. diags Eng N 92:811-12 My 8 '24

Defects in asphalt pavement and their causes. R. M. Heine. Eng & Contr (R & S) 63:70-5 F '25

Design and construction of asphalt pavements. P. Hubbard. Munic & Co Eng 66:221-9 My '24; Excerpts. Boston Soc C E J 11: 456-67 D '24

Design and construction of sand asphalt pavements. S. R. Murray. il Munic & Co Eng 66:253-6 Je '24

Economic mixtures for sheet asphalt pavements. M. F. MacNaughton. Good Roads 66:109-11 Ap '24; Same. Munic & Co Eng 66: 190-3 Ap '24; Same. Can Eng 46:419-20 Ap 8 '24; Same abr. Eng & Contr (R & S) 61:1242-3 Je 4 '24

Getting the most for the highway dollar. J. E. Pennybacker. Good Roads 65:188-9 D 5 '23

Heavy rolled asphalt pavements in Chicago. il Eng N 95:640 O 15 '25

Interlocking bituminous wearing course pavements. il Eng & Contr (R & S) 64:796 O 7 '25

Keystabond method of laying asphalt pavement. diags Eng & Contr (R & S) 61:1032 My 7 '24

Keystone method of bituminous pavement construction. diags Good Roads 66:180 Je '24

Life and maintenance of asphaltic pavements. R. H. Simpson. Can Eng 49:368, 413-15 S 29 '25

New asphalt pavement patent. C: A. Mullen. Can Eng 48:355-6 Mr 31 '25

New theory of asphalt mixtures. M. F. Macnaughton. Can Eng 48:463-6, 481-5, 499-503, 523-7, 543-6 My 5-Je 2 '25

Pavement guarantees. W. E. Rosengarten. Eng & Contr (R & S) 64:785-8 O 7 '25; Same. Munic & Co Eng 69:135-8 S '25; Same. Good Roads 68:241-2 O '25

Paving on black base at Clinton, Iowa. B. R. Anderson. Good Roads 67:168+ D '24; Same cond. Eng & Contr (R & S) 63:21-2 Ja 7 '25; Excerpts. Can Eng 48:136 Ja 13 '25

Paving railway grade crossings with Kentucky rock asphalt. diag Eng N 94:404 Mr 5 '25

PAVEMENTS, Asphalt—*Continued*

Plant inspection of asphaltic paving mixtures. W. J. Emmons. Eng & Contr (R & S) 59: 999-1008 My 2 '23; Same. Good Roads 56: 5-8+, 47-50+ Ja-F '24; Same cond. Eng N 89:1112-16 D 28 '22

Present day design of sheet asphalt mixtures. G. Abson. Munic & Co Eng 67:300-3 D '24

Resurfacing badly worn city pavements. R. H. Simpson. il Eng & Contr (R & S) 63: 961-6, 1223-6 My 6, Je 3 '25

Resurfacing Fifth Ave., New York, and Broad St., Newark, with asphalt. J. W. Howard. Munic & Co Eng 68:259-62 My '25

Resurfacing of paved streets of Columbus, Ohio. R. H. Simpson. Eng N 95:758-9 N 5 '25

Salvaging old streets by asphalt resurfacing and oiling; papers presented to Asphalt association. Eng N 95:758-61 N 5 '25

Sand asphalt pavement. H. C. Weathers. Eng & Contr (R & S) 63:59-62 Ja 7 '25

Selection of types of asphalt pavement with reference to local materials. R. M. Green. Eng & Contr (R & S) 60:740-1 O 3 '23; Same. Munic Eng 65:150-2 O '23; Same. Can Eng 46:175 Ja 22 '24

Sheet asphalt mixture research. H. W. Skidmore. Eng & Contr (R & S) 63:693-700 Ap 1 '25

Simple method for studying the relative value of mineral fillers for asphalt paving mixtures. P. Hubbard and F. C. Field. Good Roads 68:89-92 Mr '25; Same. Eng & Contr (R & S) 63:980-6 My 6 '25; Abstract. Pub Works 56:47-51 F '25

Strength and life of bituminous pavements. J. E. Pennybacker. Eng N 92:948 My 29 '24

Surfacing Fall Creek boulevard, Indianapolis, with Kentucky rock asphalt. il Munic Eng 66:9-11 Ja '24

Trend of asphalt road construction—1923 and 1924. J. E. Pennybacker. Good Roads 56:56-8 F '24

See also Pavements, Bituminous; Pavements, Bituminous concrete; Roads, Asphalt

Maintenance and repair

Maintenance of asphaltic macadam and asphaltic concrete pavements. W. L. Ulrich. Can Eng 46:377 Mr 25 '24

Repair cost of asphalt pavements at Columbus, Ohio. R. H. Simpson. Eng N 95:140-2 Jl 23 '25

Testing

Chicago heavy-traffic street tests asphalt mixtures. H. W. Skidmore. il Eng N 91:1060-1 D 27 '23

Deformation test for asphaltic mixtures. H. M. Milburn. il Pub Roads 6:131-3 Ag '25

Fine aggregate asphalt paving mixture. P. Hubbard and F. C. Field. diags Eng & Contr (R & S) 64:525-30 S 2 '25; Same. Can Eng 49:677-80 D 29 '25

How Chicago's asphalt pavements were examined. P. E. Green. Eng N 91:968-9 D 13 '23

Research work to improve asphalt paving mixtures. P. Hubbard. Munic & Co Eng 67:282-9 D '24; Same cond. Can Eng 47: 651-4 D 30 '24; Abstract. Eng N 93:862-4 N 27 '24

PAVEMENTS, Asphaltic concrete. See Pavements, Bituminous concrete

PAVEMENTS, Bitulithic

Review of the quarter century development of Warren roadway construction. G: C. Warren. il Munic Eng 66:34-9 Ja '24

Some outstanding developments in Warren pavements. G: C. Warren. il Munic & Co Eng 67:295-6 D '24

See also Roads, Bitulithic

PAVEMENTS, Bituminous

La construction de la piste routière de l'autodrome de Linas-Montlhéry. P. Grezaud. il diags plan Génie Civil 87:261-6 S 26 '25

Smooth bituminous pavements—some construction details. W. L. Hempelman. Munic & Co Eng 68:45-8 Ja '25

Testing

Stability test for bituminous mixtures. W. J. Emmons and B. A. Anderton. il diags Pub Roads 6:86-9 Je '25

PAVEMENTS, Bituminous concrete

Asphaltic concrete pavement construction. R. H. Parsons. Can Eng 47:143-4 Jl 8 '24

Black base construction in Passaic county, New Jersey. F. W. Skinner. Eng & Contr (R & S) 61:746-7 Ap 2 '24

Black base in New Jersey and Kansas. C. B. Bauerfeld. il diag Pub Works 55:248-50 Ag '24

Criticism of the book "City pavements" with special reference to bituminous mixture design. G. Abson. Munic Eng 66:54-6 F '24

Data on asphalt concrete pavements in various cities. Munic & Co Eng 69:157-9 S '25

Extension of Boulevard drive. il Can Eng 49: 311 S 15 '25

Flexible base pavements in the Northwest. K. C. Schmidt. Munic & Co Eng 67:224-9 N '24; Same. Can Eng 47:625-7 D 23 '24; Excerpt. Eng & Contr (R & S) 62:1245-7 D 3 '24

Inspecting modified Topeka mixer asphaltic concrete paving. R. B. Lee. chart Eng & Contr (R & S) 62:279-82 Ag 6 '24

Maintenance of asphaltic macadam and asphaltic concrete pavements. W. L. Ulrich. Can Eng 46:377 Mr 25 '24

New theory of asphalt mixtures. M. F. Macnaughton. Can Eng 48:481-5 My 12 '25

Paving practice in New Zealand. K. E. Luke. Can Eng 47:442 O 21 '24

Some details in street design. P. L. Brockway. Eng N 91:895-6 N 29 '23

Use of asphalt concrete in pavement bases. C. P. Jensen. Good Roads 65:190-3, 202-4 D 5-12 '23

See also Pavements, Asphalt; Pavements, Bitulithic; Roads, Bituminous concrete

PAVEMENTS, Brick

Brick conquers the grades. il Brick & Clay Rec 64:33-9 Ja 8 '24

Brick pavement job at Herrin, Ill. G: H. Anderson. il Eng & Contr (R & S) 62:1002 N 5 '24

Brick pavement on curves. diags Eng & Contr (R & S) 63:960 My 6 '25

Brick pavements; some recent improvements and modifications of design; abstracts. W. D. P. Warren. Good Roads 68:62-3, 83-5 F-Mr '25; Same. Eng & Contr (R & S) 64: 535-46 S 2 '25; Abstract. Pub Works 56: 14-15 Ja '25

Brick paving in St. Petersburg. il Pub Works 56:43-5 F '25

Bricks laid flat on cobblestone base. diag Eng N 94:1020 Je 18 '25

Designing brick pavement to fit local conditions at Mt Olive, Ill. W. D. P. Warren. diags Munic & Co Eng 66:16-20 Ja '24

How two cities Mt. Lebanon and Ford City have solved their highway problem through the use of vitrified paving brick. il Good Roads 67:141-3 N '24

Important principles of brick pavement design with recommendations. W. D. P. Warren. diags Munic & Co Eng 67:55-64 Ag '24; Discussion. 67:185-9, 222-4 O-N '24

Improved asphalt mastic filler for brick pavements. E. J. Kelley. il Eng N 95:266-8 Ag 13 '25

Kansas brick laying contest. il Eng & Contr (R & S) 64:814-15 O 7 '25

Method of resurfacing old concrete pavements with brick. H. G. Sours. Eng & Contr (R & S) 60:995 N 7 '23

Modern brick pavements. W. C. Perkins. il Can Eng 49:415-16 S 29 '25; Excerpt. Eng & Contr (R & S) 64:805-7 O 7 '25

Modern construction of brick pavements. W. P. Blair. Munic Eng 65:226-7 N '23; Same. Eng & Contr (R & S) 60:1195-6 D 5 '23

Old brick pavement in North Carolina. H. Tucker. Pub Works 56:61-2 F '25

Performance of brick pavement at Clinton, Iowa, during service of 32 years. C: P. Chase. il Munic & Co Eng 66:22-3 Ja '24

PAVEMENTS, Brick—*Continued*
Reconstructing old brick pavement at Butler, Pa. F. M. Harper. Munic & Co Eng 67:149 S '24; Excerpt. Pub Works 55:338 N '24
Sell more pavers; discussion at National paving brick manufacturers' association convention. Brick & Clay Rec 66:195-7 F 3 '25
Thinner brick for pavements. W. L. Benham. il Eng & Contr (R & S) 64:1219-24 D 2 '24; Same cond. Munic & Co Eng 69:37-41 Jl '25
28-year old brick pavement relaid. J: J. Kennedy. il Eng & Contr (R & S) 63:19-20 Ja 7 '25
Vitrified brick makes durable paving in the track area. A. Taurman. il diag Elec Ry J 66:281-3 Ag 22 '25; Excerpt. Eng & Contr (G C) 64:1140 N 18 '25

See also Roads, Brick

Expansion joints

Brick pavement expansion joints. diags Pub Works 55:190-1 Je '24
Wide expansion joints stop blowouts in brick roads. W. A. Stacey. il Eng N 94:243 F 5 '25

Foundations

Central mixing of asphalt mastic bedding course for brick pavement. F. R. Allen. il Munic & Co Eng 67:298-9 D '24; Same cond. Eng N 94:613 Ap 9 '25
Stabilizing subgrades for brick pavements. W. D. P. Warren. Eng N 94:114-15 Ja 15 '25

Maintenance and repair

City saves 75 p.c. of 25-year-old brick. Eng N 94:932 Je 4 '25
Cold paving patch saves money. Elec Ry J 62:854 N 17 '23
Maintenance of brick pavements. C. C. Albright. Eng & Contr (R & S) 61:1019-20 My 7 '24

Standards

Now only four standard sizes of paving brick. Munic & Co Eng 68:203-4 Ap '25; Eng & Contr (R & S) 63:1012 My 6 '25; Eng N 94: 540 Mr 26 '25
Paving brick association to study possibilities of 2½-in brick. Munic & Co Eng 68: 67-8 F '25; Excerpts. Eng N 94:254 F 5 '25; Eng & Contr (R & S) 64:52-3 Jl 1 '25
Paving brick varieties reduced. Eng N 95: 200 Jl 30 '25
Recognized paving brick varieties again reduced. Eng N 92:587 Ap 3 '24; Elec Ry J 63:641 Ap 19 '24; Munic & Co Eng 66:197-8 Ap '24; Pub Works 55:109-10 Ap '24; Eng & Contr (R & S) 61:1014-15 My 7 '24

PAVEMENTS, Concrete
Adjustable subgrade templet for 18-ft. concrete pavement. F. M. Balsley. il diag plan Eng N 92:1928-9 Je 12 '24
Advantages of solid concrete track structure and paving. A. E. Harvey. Eng & Contr (Ry) 61:135-7 Ja 16 '24
Alley paving as a health measure. Pub Works 56:82-3 Mr '25
L'autodrome de Miramas (bouches-du-Rhone). A. Cochet. il diags plans Génie Civil 85:29-34 Jl 12 '24
Better concrete results from field tests. il diag Elec Ry J 64:85-7 Jl 19 '24
Better riding surfaces. C. N. Conner. il Concrete 26:9-10 Ja '25
Cars operated over new concrete roadbed in 26 hours. il Elec Ry J 64:1035-6 D 20 '24
Causes of nonuniformity of concrete. Pub Roads 5:20-1 O '24; Same. Concrete 27:17-19 Jl '25
Chert unfit for coarse aggregate in concrete. F. V. Reagel. il Eng N 93:332-4 Ag 28 '24
Combined curb and gutter work. il Concrete 27:33 Jl '25
Concrete cuts paving costs. diag Elec Ry J 62:1010-11 D 15 '23
Concrete pavement forty-eight years old. Am Ind 25:31-2 Mr '25
Concrete pavement on timber floor of bridge approach trestle. il Eng N 95:683 O 22 '25
Concrete pavement reinforcement logically designed. G: D. Burr. diags plan Eng N 92:78-9 Ja 10 '24; Discussion. 92:79-81, 418, 542, 628, 738-9, 948; 94:595-6 Ja 10, Mr 6, 27, Ap 10, 24, My 29 '24, Ap 9 '25
Concrete pavements not considered suitable for most streets in New York city because of difficulty of repaving over cuts. H. H. Smith. Pub Works 55:274-5 S '24
Concrete paving of track in Chattanooga. il diags Elec Ry J 62:898-9 N 24 '23; Same. Eng & Contr (Ry) 60:1319 D 19 '23
Concrete slabs in track work. L. L. Dagron. il Eng & Contr (G C) 63:835-6 Ap 17 '25
La construction de la piste routière de l'autodrome de Linas-Montlhéry. P. Grezaud. il diags plan Génie Civil 87:261-6 S 26 '25
Construction of concrete streets at Bedford, O. il diag Munic & Co Eng 67:238-9 N '24
Economic uses of the bucket loader in paving work. J. E. Marson. il Eng & Contr (R & S) 64:511-17 S 2 '25
Economic value of reinforcement in concrete pavements. Munic & Co Eng 67:156-7 S '24
Finishing a widened curve. il Concrete 26: 184 My '25
Florida concrete pavement. Pub Works 56: 335 S '25
Hexagonal slab concrete paving at Longview, Wash. L. A. Perry. il chart diag Eng N 95:580-3 O 8 '25
Hexagonal slab design of concrete pavement. L: A. Perry. il diags Am Soc C E Pro 51: 1793-1808 N '25; Discussion. 52:158-61 Ja '26
Illinois pavement cross-section. Pub Works 56:19 Ja '25
Important features of concrete pavement construction. H. C. Boyden. Munic & Co Eng 68:139-45 Mr '25
Laying concrete pavements. C. Older. Can Eng 45:472-3 N 6 '23
Mechanical tamping of city paving. il diag Eng & Contr (R & S) 63:38 Ja 7 '25
Middletown's new pavement section replaces crown by gable. L. A. Waldner. diags Eng N 95:757 N 5 '25
Oldest concrete street pavement in Bellefontaine, Ohio. A. K. Chenoweth. Concrete 27:24-5 Jl '25
Paving programmes in Ontario towns. il Can Eng 48:387-8 Ap 7 '25
Pre-cast concrete flooring and paving units. il diags Can Eng 49:211-12 Ag 11 '25
Precast concrete paving. il diags Elec Ry J 65:505-6 Mr 28 '25
Progressive speed record in laying concrete pavements. Pub Works 55:375-6 D '24
Recent developments in concrete street pavement practice. L. S. Trainor. Munic & Co Eng 68:68-70 F '25; Same. Eng & Contr (R & S) 63:723-4 Ap 1 '25
Reconstruction of Front street in Portland, Oregon. diag Eng N 94:394 Mr 5 '25
Reinforced concrete for track paving. E. W. Jennison. il diag Elec Ry J 63:934 Je 14 '24
Reinforcement checks cracking of concrete pavements. W. S. Edge. Eng N 92:190-3 Ja 31 '24
Resilient concrete paved track successful in Denver. N. R. Love. il diag Elec Ry J 66:725-8 O 24 '25
Resurfacing old pavement with concrete at Terre Haute, Ind. Munic & Co Eng 66:33-4 Ja '24
Road construction at Wingham, Ontario. il Can Eng 47:443 O 21 '24
Slump test determines proper moisture for concrete. il Elec Ry J 63:413-14 Mr 15 '24
South sets a fast pace in paving of roads and streets. H. C. Campbell. il Manuf Rec 85:80-2 Ja 10 '24
Street pavement design based on Bates road tests at Paducah, Ky. il diags Eng N 93: 298-300 Ag 21 '24
Study of impact in its relation to pavement design. G. W. Hutchinson. Eng N 94:439-40 Mr 12 '25
Template for installing pavement joints. il Eng & Contr (R & S) 63:58 Ja 7 '25

PAVEMENTS, Concrete—*Continued*
Testing materials for concrete. D. Abrams. Can Eng 45:392-3 O 9 '23; Same. Eng & Contr (R & S) 60:996-7 N 7 '23; Same. Concrete 24:155-6 Ap '24
3-strip concrete pavement, East Aurora, N.Y. Eng & Contr (R & S) 63:992 My 6 '25
Uniformity of concrete in pavements. Eng & Contr (R & S) 61:1241 Je 4 '24
Unusual road job at St Casimir, Quebec. C. C. Lapierre. Concrete 24:37 Ja '24
Vibrolithic at Yankton. C. H. Conrick. Pub Works 56:160-2 My '25
Vibrolithic in Fort Dodge. C. H. Reynolds. il Pub Works 56:46-7 F '25
Waterloo concrete roads. il Can Eng 48:197 F 3 '25

See also Pavements, Bituminous concrete; Roads, Concrete

Corrugating

Rollers for corrugating concrete on steep grades. il Eng & Contr (R & S) 61:21 Ja 2 '24

Expansion joints

Expansion joint changes in Nevada. H. M. Loy. il Concrete 24:6 Ja '24
Expansion joints in concrete pavements. M. Maffitt. plan Eng N 92:375-6 F 28 '24
Increased use of expansion joints in concrete paving. C. V. R. Fullenwider. Munic Eng 66:25-6 Ja '24
Use of expansion joints in Arizona highways. G: B. Shaffer. Munic & Co Eng 69:203-4 O '25

Failures

Pavement cracks on loess soil. Pub Works 56:355-6 O '25
Study of crushing and heaving of concrete pavement bases. R. M. Green. Munic & Co Eng 66:216-19 My '24

Foundations

Smoothness surveys urge reforms in road design. H. Dunbar. Eng N 92:862-3 My 15 '24

Joints

Mechanical joint installer for concrete roadways. il Eng & Contr (R & S) 63:491-2 Mr 4 '25; Eng N 94:912-13 My 28 '25
New centre joint for concrete roads. J. L. G. Stuart. diags Can Eng 48:358 Mr 31 '25

Maintenance and repair

Bituminous surface for concrete paving. T. Carmichael. Eng N 95:672-3 O 22 '25
Maintaining concrete pavements with emulsified asphalt. C. C. Wiley. Munic & Co Eng 69:53 Jl '25

See also Roads, Concrete—Maintenance and repair

Specifications

Concrete pavement specifications. Eng N 93: 594-5 O 9 '24
Standard specifications for Portland cement concrete pavements for highways and streets. Am Concrete Inst Pro 20:695-731 '24

Testing

California highway commission conducts pavement tests. Good Roads 68:246-7 O '25
Comparative utility of concrete pavement tests. J. G. Bragg. Eng N 92:1012-14 Je 12 '24
Effect of capping on strength of cores drilled from concrete pavements. R. E. Bergford. il Pub Roads 6:42-3 Ap '25; Same, without il. Eng & Contr (R & S) 63:1230-1 Je 3 '25
Standard specifications for concrete and reinforced concrete; submitted by the joint committee. Am Soc C E Pro 50:1257-8 O '24

Trackways

Invisible track highway in Kentucky. J. T. Madison. diag Concrete 24:12 Ja '24
Invisible track type of highway; experimental section being constructed in Kentucky. diag Eng & Contr (R & S) 60:956-7; 61:34-5 N 7 '23, Ja 2 '24
Railroad track highway. il Sci Am 131:25 Jl '24
Twin trail highway construction. il Concrete 24:29 Ja '24
Twin trails highway. il Sci Am 130:93 F '24

PAVEMENTS, Coral
Honolulu's coral pavements. V. B. Libbey. Eng & Contr (R & S) 64:1000 N 4 '25

PAVEMENTS, Granite
Construction of asphalt-filled granite block pavement at Elizabeth, N.J. T: E. Collins. Munic & Co Eng 67:165-6 O '24; Same. Eng & Contr (R & S) 64:797-8 O 7 '25
Recent developments in the production and use of granite for paving and curbing in the South. J. J. Tobin. Manuf Rec 85:77 Ja 10 '24
Redressed granite block paving in Philadelphia. J. Adler. il Eng N 93:582-5 O 9 '24
Standard specifications for block for durax granite pavements. Am Soc T M Standards 1923:89-90
Standard specifications for block for recut granite block pavements. Am Soc T M Standards 1923:87-8
Vehicle tunnel under Hudson river paved with granite. il diags plan Eng N 95:726-7 O 29 '25

See also Roads, Granite

Maintenance and repair

Maintenance of granite pavements. R. A. MacGregor. Pub Works 54:395 D '23

PAVEMENTS, Mosaic. See Mosaic

PAVEMENTS, Rubber
British process for rubber roads. Rubber Age 15:101 My 10 '24
Development of rubber block pavements. E. S. Dorr. Good Roads 67:140+ N '24; Same. Rubber Age 16:117-18 N 25 '24
Interlocked and nailed rubber pavement. E. Swanson. diag India Rubber W 70:783 S '24
Largest American installation of rubber paving; Michigan Avenue bridge, Chicago. il India Rubber W 71:139-40 D '24
New rubber paving material perfected: rubbacrete, a British invention. il Rubber Age 15:175-6+ Je 10 '24
Noiseless pavements of long-lived rubber. il Sci Am 131:247 O '24
Novocrete rubber paving. il India Rubber W 69:158 D '23
Rubber pavement for public roads. V. Arnaud. India Rubber W 72:395-7 Ap '25
Rubber pavement in Boston. E. S. Dorr. Boston Soc C E J 12:54-7 Ja '25
Rubber pavements. il Pub Works 55:31-2 Ja '24
Rubber pavements. E. S. Dorr. Eng N 93: 594 O 9 '24
Rubber pavements on bridges. il Pub Works 55:342 N '24
Rubber paving and high curb guards on Chicago bridge. diags Eng N 93:795 N 13 '24
Rubber paving block equipped with self-anchoring lugs. il Eng N 93:609 O 9 '24
Rubber street pavement laid in Boston. il India Rubber W 70:571-2 Je '24; Rubber Age 15:125+ My 25 '24; Good Roads 67:9 Jl '24
Second rubber paving experiment in Boston. il India Rubber W 71:140-1 D '24
Will rubber roads prove the super-road? D. Gilmartin. Rubber Age 14:300-1+ Ja 25 '24

PAVEMENTS, Stone
New pavements constructed with redressed Medina block. I. E. Houk. il Good Roads 66:137-8 My '24
Stone block pavements in Dayton, Ohio. I. E. Houk. il Engineer 137:606-7 My 30 '24

See also Pavements, Granite

PAVEMENTS, Wood
Effect of camber on wood-paved roads. J. Garvie. Engineer 139:570 My 22 '25; Same. Eng & Contr (R & S) 64:59 Jl 1 '25

Maintenance and repair

Maintenance of creosote block pavements. A. D. Carpenter. Munic & Co Eng 68:299-301 Je '25; Same. Eng & Contr (R & S) 64:782-4 O 7 '25

PAVING brick manufacturers' association, National. See National paving brick manufacturers' association

PAVING mixers
Crawler paver does good service on sewer construction job. il Eng N 93:799 N 13 '24; Eng & Contr (W W) 62:1053-4 N 12 '24; Pub Works 55:341-2 N '24; Concrete 25:227-8 D '24
Labor-saving equipment in road construction. E. H. Lichtenberg and J. A. Shepard. il Mech Eng 47:414-15 sec 2 My '25

PAWNBROKING
Regulation of pawnbroking. R. C. Raby. 63p [bibliog. p. 63] Russell Sage foundation, New York '24

PAY envelopes
Making pay envelopes promote thrift. W. L. Stoddard. Factory 32:316-17 Mr '24

PAYMENT
When owner delays in making payment as work progresses. A. L. H. Street. Bldg Age 47:144 Jl '25

See also Collecting of accounts; Instalment plan; Payrolls; Wage payment plans

PAYROLL machine
Pay-roll machine. il Management & Adm 8: 312-13 S '24

PAYROLLS
Cutting costs of handling a piece-work pay-roll. W. F. Mason. Factory 32:420+ Mr '24
Eliminating curves in the accounting department. J: C. McNeil. Ry R 76:1017-18 Je 6 '25
Factory pay-roll control in the shirt industry. M. L. Siegel. Management & Adm 7:311-15 Mr '24
Figuring pay rolls on adding machines. C. A. Jettinger. Inland Ptr 73:877-8 S '24
Paying-off plan you can use with profit. P. F. O'Shea. il Factory 32:488-9+ Ap '24
Payment by check; Associated industries of Massachusetts. Am Management R 13:13 F '24
Pay-roll and production accounting machine. il Management & Adm 7:228-30 F '24
Practical accounting system for labor costs; how a paper mill controls its labor budget. H. M. Grasselt. Ind Management 70:284-6 N '25
Preparing transportation department pay-rolls by machine. il Elec Ry J 65:839-41 My 30 '25
Pros and cons on the check payment plan. Bankers M 109:366 S '24
Tire factory manufacturing costs; payroll calculation and analysis. J. J. Dawson. India Rubber W 70:503-5 My '24
Why our paymaster knows every worker by name. D. S. Greer. il Factory 35:568+ O '25
Why we make up the pay-roll in the employment office. M. R. Lott. il Factory 33:338-9+ S '24

See also Time cards; Time keeping

Statistics

Pay roll in industrial establishments. Survey of Cur Business 46:25 Je '25

PEACE
America's leadership of the world and our responsibility for world peace. C: H. Brough. Comm & Fin Chr 119:172-5 sec 2 O 18 '24; Excerpts. Am Bankers Assn J 17:247 O '24
Bok peace award—C. H. Levermore receives $50,000 for winning plan. Comm & Fin Chr 118:622-4 F 9 '24
Bok peace award—winning plan. Comm & Fin Chr 118:125, 154-6 Ja 12 '24
French note to Germany on proposed security pact. Comm & Fin Chr 121:1043-4 Ag 29 '25
Italian peace award announced; competition inaugurated by Edward A. Filene of Boston, in Great Britain, France, Germany and Italy. Am Ind 25:11-12 D '24
President Coolidge, in address to graduating class at Annapolis, says navy cannot succeed by force. Comm & Fin Chr 120:3016-17 Je 13 '25
Proposed European security pact in place of Geneva peace protocol. Comm & Fin Chr 120:1406-7 Mr 21 '25
Proposed security pact between allies and Germany; comments by Austen Chamberlain and others. Comm & Fin Chr 121:411-14 Jl 25 '25
Search for peace. Bankers M 110:613-15 Ap '25
World peace through codification of international law urged. C. E. Hughes. Comm & Fin Chr 120:2763-4 My 30 '25
World peace—will the automobile help to bring it nearer? N. G. Shidle. il Automotive Ind 53:246-9 Ag 13 '25

See also Disarmament

PEACE treaty (European war)
Allegations and denials of secret compact between former President Wilson and Premier Clemenceau. Comm & Fin Chr 118: 751-6 F 16 '24
Violation of Versailles treaty by Germany cited in note of Allies—disarmament by Germany called for. Comm & Fin Chr 120: 3143-6 Je 20 '25

PEACH kernels
Waste from cannery products furnishes oil and fuel. il Management & Adm 8:275-6 S '24

PEACHES
Non-volatile acids of the peach. E. K. Nelson. Am Chem Soc J 46:2337-8 O '24

PEANUTS
Possibilities of peanut culture in the South. G: W. Carver. Manuf Rec 86:227-8 pt 2 D 11 '24

PEARLITIC cast iron. See Cast iron

PEARLS
Making pearls of great price. Comm & Fin 14:419 Mr 4 '25
Method of distinguishing natural pearls from those artificially grown. A. Dauvillier. J Fr Inst 199:64 Ja '25

PEARLS, Artificial
Jewelry from fish scales. D. K. Tressler. il Sci Am 131:180 S '24
Profits in artificial pearls. il Am Exporter 94:45+ My '24

Advertising

Consumer guessing contest with a double-barreled effect; Bluebird pearls. Ptr Ink 126:74+ Ja 10 '24

PEARS
Cold storage of pears. E. L. Overholser and L. P. Latimer. Refrig W 60:19-22 Mr '25

PEASE, Frederick Noah, 1850-
American contemporaries. M. E. McDonnell. por Ind & Eng Chem 17:1092 O '25

PEAT
Absorption of moisture by coal and other fuels. B. Moore. Soc Chem Ind J 44:200-5 My 1 '25
Dehydration of peat by the use of alcohol. H. M. Spiers. Soc Chem Ind J 42:455-6 N 23 '23
Electricity from peat. W. A. Perry. Elec R (Lond) 94:570 Ap 11 '24
Hydropeat. il diags Engineering 120:168, 177-9 Ag 7 '25; Abstract. Génie Civil 87:404-5 N 7 '25
Hydrotorf. R. Klasson. il diags Zeit Ver Deutsch Ing 68:601-5 Je 7 '24
Industrielle und landwirtschaftliche moornutzung. G. Keppeler. il diags Zeit Ver Deutsch Ing 68:595-91 My 31 '24
Eine neue presstorffabrik. A. Hausding. diags Zeit Ver Deutsch Ing 69:784-7 Je 6 '25
New developments in Canadian fuels. B. F. Haanel. Paper 33:8-10 F 7 '24
Les procédés de traitement de la tourbe et du lignite. M. Migeon. il diags Chimie & Ind 11:248-55 F '24

PEAT—*Continued*
Recent progress in the peat problem; abstracts. R. M. Perkins. Elec R (Lond) 97: 473 S 18 '25; Electrician 95:267 S 4 '25; Chem Age (Lond) 13:276 S 12 '25; Gas J (Lond) 171:549 S 2 '25; Engineering 120: 528-9 O 23 '25
Relation of peat to oil shale. S. Linker. Chem Age 32:63-4 F '24
L'usine de gazéification de la tourbe et la centrale thermo-électrique de Torre del Lago (Italie). diag Génie Civil 86:562-3 Je 6 '25

See also Concrete, Effect of peat on

PEBBLE mills. See Tube mills

PECAN oil
Chemical constituents of pecan oil. P. D. Boone. Ind & Eng Chem 16:54-5 Ja '24

PECANS
Pecan industry in the South. R. E. L. Niel. il Manuf Rec 86:228-9 pt 2 D 11 '24

PECCARY, Fossil
New species of extinct peccary from Oregon. M. R. Thorpe. bibliog il Am J Sci 5th ser 7:393-7 My '24

PECHMANN dyes
Researches on unsaturated ketonic acids; the constitution of the so-called Pechmann dyes and the mechanism of their formation from beta-benzoylacrylic acid. M. T. Bogert and J: J. Ritter. Am Chem Soc J 46:2871-9 D '24

PECTINS
Decarboxylation of polysaccharide acids: its application to the establishment of the constitution of pectins and to their determination. D. R. Nanji, F: J. Paton and A. R. Ling. Soc Chem Ind J 44:253-8 My 22 '25
Inventive ingenuity in applied chemistry. Chem Age 32:319 Jl '24
Manufacture of pectin. C. P. Wilson. bibliog Ind & Eng Chem 17:1065-7 O '25
Protopectin and some other constituents of lemon peel. R. Sucharipa. Am Chem Soc J 46:145-56 Ja '24
Recent progress in the chemistry of pectin and its industrial applications. W. H. Dore. bibliog Ind & Eng Chem 16:1042-4 O '24

PEDDLERS and peddling
Study of court decisions on itinerant vendor and transient merchant legislation. O. E. Klingaman. 48p National retail dry goods assn., New York '24

PEDDLERS and peddling, Wholesale
Wholesale peddler as a factor in distribution. R. W. Johnson. il Sales Management 8:221-2+ F 7 '25

PEDESTAL rocks. See Rocks

PEDESTRIANS
Pedestrian traffic. H. E. Young. il diags plans W Soc E J 29:65-86 Mr '24; Abstract. Elec Ry J 63:291-5 F 23 '24
Pedestrians are responsible for many motor vehicle accidents. R. B. Stoeckel. Automotive Ind 51:108-9 Jl 10 '24
Rights of pedestrian and motorist. R. B. Stoeckel. Eng & Contr (R & S) 61:1243-4 Je 4 '24

PEDIMENTS
Problem of the pediment. M. Price. il Arch Forum 43:1-6 Jl '25

PEGMATITE
Genesis of lithium pegmatites. W. T. Schaller. Am J Sci 5th ser 10:269-79 S '25
Geology of the Etta spodumene mine, Black Hills, South Dakota. G. M. Schwartz. bibliog diags Econ Geol 20:646-59 N '25
Natural history of the pegmatites. F. L. Hess. il diags Eng & Min J 120:289-98 Ag 22 '25
The pegmatites. J. F. Kemp. Econ Geol 19: 697-723 D '24

PELARGONIDIN chloride
Synthesis of pyrylium salts of anthocyanidin type; a new synthesis of pelargonidin chloride. D: D. Pratt and R. Robinson. Chem Soc J 125:188-99 Ja '24
Synthesis of pyrylium salts of anthocyanidin type; a new synthesis of pelargonidin chloride and of galanginidin chloride. T: Malkin and R. Robinson. Chem Soc J 127: 1190-5 My '25

PELLETIERINE
See Pseudopelletierine

PELTIER effect
Relation between metal contact potentials and the Peltier effect. J. A. V. Butler. Philos Mag 6th ser 48:746-52 O '24

PELTON wheels. See Turbines

PENANG
See Railroads—Penang

PENCIL leads
Manufacture of leads for the mechanical pencil. R. Back. il Am Cer Soc J (Bul) 8:571-9 N '25

PENCIL sharpeners
Splendid achievement of Federal trade commission; lead-pencil sharpener situation. Comm & Fin 14:652-3 Ap 8 '25

PENCILS
Chemistry of a lead pencil. Chemicals 24:13 Ag 31 '25
Large uses of steel in small ways; mechanical pencils. il Iron Tr R 75:1172 O 30 '24

See also Eversharp pencils; Pencil leads

PENDULUM
Coupled cord pendulums. C: H. Lees. Philos Mag 6th ser 48:129-41 Jl '24
Vibrations of two pendulums connected by a spring. V. N. Solovieff. diags Philos Mag 6th ser 50:612-18, pl 18-20 S '25

PENETROMETER
Penetrometer and its importance in determining the water resistance of fabrics. N. N. Wosnessensky. diags Am Dyestuff Rep 13: 781-3+ D 1 '24

PENMAN tool company
Expansion of fixed capital by selling receivables. S. P. Meech. Univ J of Business 3:98-102 D '24

PENNSYLVANIA
See also Coal—Pennsylvania; Coal miners—Pennsylvania; Coal mines and mining—Pennsylvania; Electric plants (central stations)—Pennsylvania; Forests and forestry—Pennsylvania; Geology—Pennsylvania; Hydroelectric plants—Pennsylvania; Motor bus lines—Pennsylvania; Railroads—Pennsylvania; Roads—Pennsylvania; Street railroads—Pennsylvania; Water supply—Pennsylvania

Bureau of rehabilitation
Aid to blind through Pennsylvania Bureau of rehabilitation. Monthly Labor R 19:1199 N '24

Politics and government
Saving $40,000 a day in Pennsylvania. G. Pinchot. Nation's Business 12:19-20 My '24; Discussion. C: A. Snyder. 12:52+ Jl '24

Public service commission
Pinchot sweeps Pennsylvania commissioners out of office. Elec Ry J 66:213 Ag 8 '25

PENNSYLVANIA company, Philadelphia
Packard building; the new home of the Pennsylvania company. il Bankers M 110:760-70 Ap '25

PENNSYLVANIA electric corporation
Associated gas and electric buys the Pennsylvania electric corporation for $175,000,000. Power 62:268 Ag 18 '25

PENNSYLVANIA independent oil men's association
Organization, Harrisburg, May 7. Nat Pet N 16:27 My 14 '24

PENNSYLVANIA-Ohio electric company
Pennsylvania-Ohio electric company 7% cum. pfd. Moody's Inv Serv 15:440 D 4 '24

PENNSYLVANIA power and light company
Utility has doubled its business. P. W. Garrett. Elec W 85:542-3 Mr 7 '25

PENNSYLVANIA railroad
Annual report, 77th, 1923. Comm & Fin Chr 118:1656-8 Ap 5 '24
Annual report, 78th, for year ended Dec. 31, 1924. Comm & Fin Chr 120:1870-2 Ap 11 '25
Coal situation hurts Pennsylvania. map Ry Age 78:942-4 Ap 11 '25
Cooperation in industry. S: Rea. Min Cong J 10:421-3 S '24
Decision of the Supreme court in the Pennsylvania railroad labor case. Ry R 76:468-71 Mr 7 '25
Eastern region, P.R.R., officers and men meet. Ry Age 77:996-7 N 29 '24
Enforcement of findings of United States Railroad labor board (Pennsylvania railroad case). Monthly Labor R 20:900-2 Ap '25
Federal court refuses to enjoin the Pennsylvania in labor case. Ry R 73:950 D 29 '23
Harbor equipment of the Pennsylvania railroad. Eng & Contr (Ry) 62:1118-20 N 19 '24
How we brought management and worker together. W. W. Atterbury. il System 45: 42-5+ Ja '24
Improvements of the Pennsylvania R.R.; the Beaver river bridge. Ry R 75:139 Jl 26 '24
Improving Cleveland-Pittsburgh line—Pennsylvania R.R. il maps Eng N 93:88-92 Jl 17 '24
Pennsylvania continues operating improvement. map Ry Age 76:895-7 Ap 5 '24
Pennsylvania follows broad plan in stores department. C. D. Young. Ry Age 78:977-80 Ap 18 '25; Same. il Ry R 76:898-903 My 16 '25
Pennsylvania objects to four-system plan. S: Rea. Ry Age 77:807-9 N 1 '24
Pennsylvania railroad lays claim to the title of the oldest railroad. Ry R 75:542-3 O 11 '24
Pennsylvania railroad medical and surgical service. E. B. Hunt. il Nation's Health 6: 10-11+ Ja '24
Pennsylvania railroad's proposed bond issue. Bradstreet's 53:257 Ap 18 '25
Pennsylvania's new rule book. Ry Age 78: 923-31 Ap 11 '25
Practical method of securing co-operation. Ry Age 77:453-6 S 13 '24
Senator Couzens's criticism of management of Pennsylvania R.R.—reply by President Rea. Comm & Fin Chr 120:2227-8 My 2 '25
Tentative valuation, Pennsylvania co. Ry Age 77:707 O 18 '24
Twenty-seven medals for Pennsylvania employees. il Ry Age 76:1771-2 Je 21 '24
Using concrete mattresses for foundations at new Sharpsburg engine terminal near Pittsburgh. il plans Ry Age 77:229-33 Ag 9 '24
Wire communication on the Pennsylvania. Ry Age 78:1528 Je 20 '25

PENNSYLVANIA state college
Before the chemical engineering era. C: Wadsworth. Chem & Met Eng 32:277-9 F 16 '25

PENNSYLVANIA street railway association
Annual meeting, 20th, Harrisburg, Dec. 5. Elec Ry J 64:996-8 D 13 '24

PENNSYLVANIA water and power company
Report of the board of directors for the year 1923. Comm & Fin Chr 118:566-7 F 2 '24
Report of the board of directors for the year 1924. Comm & Fin Chr 120:843 F 14 '25

PENS
Manufacture
Large uses of steel in small ways; pens. il Iron Tr R 73:1678-9 D 20 '23

PENSION bureau. See United States—Pension bureau

PENSIONS
Pension expenditures of New Zealand. Monthly Labor R 21:159-60 Jl '25
See also Civil service pensions; Mothers' pensions; Old age pensions

PENSIONS, Industrial
Argentina's new workers' pension system. K: W. Miller. Econ W n s 27:565-6 Ap 19 '24
Benefits and limitations of pension systems. J. E. Kavanaugh. Automotive Ind 50:1064-5 My 15 '24
English view of superannuation. Monthly Labor R 18:398-9 F '24
Equitable trust company of New York announces pension plan for employees. Bankers M 110:20 Ja '25
How Union oil company helps workers help themselves. R. Alden. Forbes 16:171-2 My 15 '25
Labor legislation of Argentina. E. Y. Larson. Monthly Labor R 19:1159-63 N '24
Making old age safe for workers. N. M. Clark. Forbes 15:225-8 N 15 '24
New British budget; free gold market and workers' pensions. Index p 3-6 My '25
New employes' pension system of the Metropolitan life insurance company. Econ W n s 29:276-8 F 21 '25
Old-age and invalidity pensions of French miners. Monthly Labor R 18:879-80 Ap '24
Operations of the United States steel and Carnegie pension fund in 1924. Econ W n s 29:243 F 14 '25
Pensions bill. J. J. H. Stansfield. Elec R (Lond) 96:951 Je 12 '25
Pensions for employees' widows. R. F. Foerster. Am Management R 13:5 Mr '24
Report of sub-committee on welfare of employees as affecting relations of company with customer. Am Gas Assn Accounting sec v 6:429-38; Discussion. 453-5 '24
Sound and unsound pension systems for industrial workers. E. Clark. Econ W n s 30:21-3 Jl 4 '25
State pension fund for bank employees in the Argentine Republic. Bankers M 109:577-8 O '24
What about our railroad pension systems? Ry Age 79:551-2, 601, 644, 694 S 26-O 17 '25
Wickwire-Spencer steel adopts pensions. Iron Tr R 73:1378 N 15 '23; Iron Age 112:1326 N 15 '23; Am Management R 13:12 Ja '24
Will the pension break the business? E. S. Cowdrick. Am Management R 13:4-5 Ag '24
See also Insurance, Industrial

PENSIONS, Military
Great Britain
War pension expenditures of the British government. Econ W n s 29:379 Mr 14 '25
United States
Pension payments in fiscal year of 1924. Comm & Fin Chr 119:2608 D 6 '24
President's veto of the Bursum pension bill; upheld in the Senate. Comm & Fin Chr 118: 2256-7, 2386 My 10-17 '24

PENSIONS, Old age. See Old age pensions

PENSTOCKS
Building Moccasin Creek penstock, Hetch Hetchy project. il diags Eng N 93:858-60 N 27 '24
Determining fall in pressure in hydraulic turbine penstocks. W. I. Barrows. chart Power 60:507 S 23 '24
Fall in pressure in hydraulic turbine penstocks due to acceleration of flow. S. L. Kerr. charts Power 60:266-8 Ag 12 '24
Further data on Moccasin Creek penstock breaks. il diags plan Eng N 95:666-7 O 22 '25
Hetch Hetchy penstock lines ruptured due to operating error. J Elec 55:66 Jl 15 '25; Elec W 86:81, 231 Jl 11, Ag 1 '25; Eng N 95:78 Jl 9 '25; Power 62:74 Jl 14 '25
High-head penstock failure found due to bad steel. diag Eng N 92:367-8 F 28 '24; Same. Power 59:373-4 Mr 4 '24
Joint between penstock and saddles made of asbestos paper. Eng N 94:903-4 My 28 '25
Large penstocks for power plant in India. Eng N 92:731 Ap 24 '24
Method for the economic design of penstocks. H. L. Doolittle. Mech Eng 46:785-9 pt 2 N '24; Abstracts. Eng N 93:990 D 18 '24; Power 60:933 D 9 '24; Discussion. Mech Eng 46: 789-92 pt 2 N '24
Reconditioning wood stave pipe line. J. B. Holdcroft. il Can Eng 46:447-9 Ap 22 '24

PENSTOCKS—*Continued*
Rigidity in penstock wye secured by simple design. il diags Eng N 95:189 Jl 30 '25
Severe water hammer causes break of Big Creek no. 8 penstock. Eng N 92:399 Mr 6 '24; Same. Power 59:414 Mr 11 '24
Sherman Island hydro-electric development of the International paper company. il diags Power 58:838-41 N 27 '23
21-ft. Larner-Johnson penstock valves; Niagara Falls power company. il diags Engineering 119:320-1 Mr 13 '25
Unusual penstock arrangement at White River plant. il plan Eng N 95:422 S 10 '25
World's record high-head reaction-type hydraulic turbine at Oak Grove power station of Portland electric power co. C. P. Dunn. diag Power 61:871-2 Je 2 '25

Manifolds

Big Creek no. 3 penstock manifold. H. L. Doolittle. il diags Eng N 92:1006-7 Je 12 '24
Davis bridge penstock manifold. C. W. Larner. il diags Eng N 92:1007-8 Je 12 '24
Steel multiple stops swirling in surge chamber. diags plan Eng N 95:709 O 29 '25

PENTADIENONES
Addition reactions of certain pentadienones. E. P. Kohler and R. W. Helmkamp. Am Chem Soc J 46:1018-24 Ap '24
Addition reactions of certain pentadienones; addition of malonic esters. E. P. Kohler and C. S. Dewey. Am Chem Soc J 46:1267-78 My '24

PENTAHYDROXY benzyl dihydrocoumarone
Constitution of catechin; α,3,5,7,3′,4′-pentahydroxy-4-benzyl-1,2-dihydrocoumarone. H. F. Dean and M. Nierenstein. Am Chem Soc J 46:2798-2806 D '24

PENTAHYDROXY-FLAVAN
Constitution of catechin; 4,5,7,3′,4′-pentahydroxy-flavan. M. Nierenstein. Am Chem Soc J 46:2793-8 D '24

PENTENE
Electron displacement in carbon compounds; hydrogen bromide and 2-pentene. H. J. Lucas and H. W. Moyse. Am Chem Soc J 47:1459-61 My '25

PENTOSANS
Determination of pentosans in wood celluiose. W. J. Powell and H: Whittaker. Soc Chem Ind J 43:35-6 F 22 '24
Gelatinization of lignocellulose. A. W. Schorger. Ind & Eng Chem 16:141-4 F '24

PENTOSES
Occurrence of free pentoses in plants; the effect of extraction of the sugars with ammoniacal alcohol. D. T. Englis and G. Hale. Am Chem Soc J 47:446-9 F '25

PEOPLE'S gas light and coke company, Chicago
Annual report for year ended Dec. 31, 1924. Comm & Fin Chr 120:824-5 F 14 '25

PEORIA, Illinois

Rapid transit

Strike on I. T. S. settled. Elec Ry J 64:1053 D 20 '24

PEORIA Star
Peoria Star building. Peoria, Ill. il plans Am Arch 128:375-8 O 20 '25

PEPPERMINT
Peppermint crop in Michigan exceeds total made in 1923. Oil Paint & Drug Rep 106: 54 N 10 '24

PEPTIZATION. See Colloids

PEPTONES
Hydrogen ion concentration and peptones used in bacteriology. E. M. Chamot and F. R. Georgia. bibliog Am Water Works Assn J 13:661-74 Je '25

PER diem rules. See Freight cars—Interchange

PERACIDS
Function of peroxides and peracids in the electrochemical oxidation of organic compounds. F. Fichter. Am Electrochem Soc Trans v 45 (preprint 16):231-54 Ap '24

PERBROMIDES
See Chloro-perbromides

PERCHLORATES
New organic reagent for the detection of nitrates and perchlorates. C. S. Marvel and V. du Vigneaud. Am Chem Soc J 46:2661-3 D '24
See also Alkali perchlorates

PERCHLORIC acid
Activity of perchloric acid in aqueous solution. R. Schuhmann. Am Chem Soc J 46: 58-60 Ja '24
Perchloric acid as an analytical reagent; abstract. J: H. Yoe. J Fr Inst 200:607-8 N '25

PERCOLATORS. See Coffee percolators; Electric coffee percolators

PERCY, John, 1817-1889
History and progress of metallurgical science. R. Hadfield. por Engineer 136:511-12 N 9 '23

PERE Marquette railway
Annual report, 1923. Ry Age 76:1379-80, 1394 Je 7 '24
Annual report for 1924. Ry Age 78:1307 My 23 '25; Comm & Fin Chr 120:2931-2 Je 6 '25
Pere Marquette Ry.'s 1924 improvement program. Ry R 74:1264-5 Je 28 '24

PERFORATED records
Punch cards for bills receivable. M. J. Howell. Ry Age 79:321-2 Ag 15 '25
Punched hole accounting. 171p International business machines corp., 50 Broad st., New York '24
Railroad accounting by use of perforated cards. il Ry R 76:980-5 My 30 '25
Statistical bureau of freight auditor's office; Chicago Milwaukee & St Paul Ry. L. R. Wolff. il Ry R 77:41-7 Jl 11 '25

PERFUMERY
Les essences d'hespéridées. C. Lautier. Chimie & Ind 13:112-13 Ja '25
L'industrie des parfums d'après les théories de la chimie moderne. M. P. Otto. 2d ed., rev. & enl. 688p Dunod, Paris '24
Industries which have too many trade-marks. C: Fischbeck. Ptr Ink 130:57-8+ Ja 22 '25
Manuel de parfumerie. I. Lazennec. 281p J.-B. Baillière et fils. Paris '22
Perfumes and cosmetics. W: A. Poucher. 473p Van Nostrand '23
Research in perfume chemistry. M. T. Bogert. Oil Paint & Drug Rep 107:22 Je 8 '25
See also Farnesol; Phenylethyl alcohol

Analysis

Detection of diethylphthalate in perfume. F: Breithut and P. M. Apfelbaum. Ind & Eng Chem 17:534 My '25

Manufacture

Dyeing of soap and perfumery. F. R. Wilson. Textile Col 46:376-9 Je '24
Florida plant for making flower perfumes and preparations. il Manuf Rec 85:84-5 Ap 24 '24
Méthodes industrielles modernes pour la fabrication de parfums synthétiques; abstract. A. Lewinsohn. diag Chimie & Ind 12:722-4, 724-5 O '24

PERGOLAS
Estate of Richard Rowland, Rye, N.Y.; view. Am Arch 126:pl 106 S 24 '24

PERHALIDES
p-bromophenyltrimethylammonium perhalides. T: H. Reade. Chem Soc J 125:148-56 Ja '24
p-iodophenyltrimethylammonium perhalides. T: H. Reade and S. A. Sim. Chem Soc J 125:157-60 Ja '24

PERILLA oil

Specifications

Standard specifications for perilla oil, raw or refined. Am Soc T M Standards 1923:70-4

PERIODIC chemical reactions. See Chemical reaction

PERIODIC law
Periodic law of atomic radii. W. P. Davey. Phys R 23:313-21 Mr '24

PERIODICALS
Decrease in publications recorded in 1923. Ptr Ink 126:116 Ja 17 '24
How best to pass information contained in gas journals on to the employees. A. D. Whittaker. Am Gas J 120:409-10+ My 3 '24
Journals and magazines. J. B. Arnold. Inland Ptr 73:717-20 Ag '24
Magazine exchange for the shop. A. J. Beatty. il Am Mach 60:553-4 Ap 10 '24

See also Advertising mediums—Periodicals; Audit bureau of circulations; Electric engineering—Periodicals; Employees' magazines; House organs; Newspapers; Technical periodicals; Textile society journals; Trade journals; *also* names of periodicals, e.g. Electric railway journal (periodical)

Bibliography

Check list of periodicals and serials in the biological and allied sciences available in the Library of the University of Minnesota and its vicinity. 126p Univ. of Minnesota, Minneapolis '25
Economic and sociological periodicals in the New York public library; labor periodicals. N Y Pub Lib Bul 29:66-101, 147-63, 815-26, 866-72 F-Mr, N-D '25
Electrical magazines published in the United States and foreign countries, including house organs. N E L A Bul 11:108-11 F '24
Index bibliographicus; international catalogue of sources of current bibliographical information. M. Godet, ed. 233p Marcel Godet, Geneva '25
Justice collection of material relating to the periodical press. L. M. Salmon. Special Lib 16:310-15 O '25
List of current periodicals. 2d ed. 236p John Crerar library, Chicago '24
Liste alphabétique des publications périodiques reçues par le Société des ingénieurs civils de France en 1925. Soc Ing Civils Bul 78:sup1-26 Ja '25
Periodical publications currently displayed in the Coventry public libraries. L. A. Beasley, comp. 67p Public libraries committee, Coventry, England '25
Periodicals for the small library. F. K. Walter. 4th ed., enl. 89p American lib. assn., Chicago '24
Rates and information on the religious press. 43p Religious press dept., Associated advertising clubs of the world, Harrisburg, Pa. '25
Selected list of business magazines. E. Cleland. Lib J 49:731-4 S 1 '24
Selected list of technical magazines. A. Winslow, comp. Lib J 49:780-5 S 15 '24
Subject list of the periodical publications in the Patent office library. 282p Gt. Brit. Patent office. Library, London '24
World list of scientific periodicals published in the years 1900-1921. W. A. Smith and L. A. Sheppard. 2v Oxford '25

Union lists

Catalogue of scientific periodicals in Canadian libraries. G. R: Lomer and M. S. Mackay. 225p McGill univ., Montreal '24
Guide to serial publications founded prior to 1918 and now or recently current in Boston, Cambridge, and vicinity. T: J. Homer, comp. and ed. pt 1-2 Trustees of the Public library, Boston, Mass. '22
Union list of serials in the libraries of the United States and Canada. W. Gregory, ed. Provisional edition. A-I. H. W. Wilson co. '25
World list. Special Lib 15:95 Ap '24

Directories

American labor press directory. 82p Rand school of social science, 7 E. 15th st., New York '25
Catholic press directory for 1925. 144p J. H. Meier, 64 West Randolph st., Chicago '25
Crain's market data book. G. D. Crain. 5th ed 500p G. D. Crain, Chicago '25
What editors and publishers want. M. Meredith, ed. 216p Literary year books press, 67 Dale st., Liverpool; R. R. Bowker co., New York '25

Indexes

Memorandum on periodical indexes. Boston Soc C E J 12:302-3 Je '25
Newspapers and periodicals, some bibliographical and bibliothecal problems. J. C. M. Hanson. Lib J 50:750-2 S 15 '25

See also Newspapers—Indexes

Size

Vote on the pocket size of this magazine. Eng & Contr (R & S) 61:278-9, 493-5 F 6, Mr 5 '24

PERIODOGRAM
Application of the periodogram to wireless telegraphy. C. R. Burch and J. Bloemsma. Philos Mag 6th ser 49:480-503 F '25

PERISHABLE freight. See Freight, Perishable

PERKIN medal
F. M. Becket receives Perkin medal for 1923. Oil Paint & Drug Rep 105:19+ Ja 14 '24; Ind & Eng Chem 16:196 F '24; Iron Age 113: 219 Ja 17 '24
H. K. Moore is awarded Perkin medal for 1924. Oil Paint & Drug Rep 106:19 O 27 '24
Perkin medal award; list of recipients from 1907 to 1924. Ind & Eng Chem 17:202 F '25
Perkin medal award to H. K. Moore. Chem & Met Eng 32:169 Ja 26 '25; Oil Paint & Drug Rep 107:19+ Ja 19 '25; Paper 35:587-9+ Ja 22 '25

PERKINS, Jacob, 1766-1849
Jacob Perkins and his descendants. C: R. King. por il Power 59:718-19 My 6 '24
Jacob Perkins and his steam engines. Engineer 140:6-7+ Jl 3 '25
Unaflow engine practice of a century ago. por Power 61:368-70, 451-2 Mr 10, 24 '25

PERMALLOY
Contribution to the theory of ferromagnetism. L. W. McKeehan. Phys R 26:274-9 Ag '25
Effect of tension upon magnetization and magnetic hysteresis in permalloy. O. E. Buckley and L. W. McKeehan. Phys R 26: 261-73 Ag '25
Loaded submarine telegraph cable. O. E. Buckley. il Am Inst E E J 44:821-9 Ag '25; Discussion. 44:1248-9 N '25
Permalloy possesses remarkable properties. Blast F & Steel Pl 12:181-2 Mr '24; Excerpts. Metal Ind 22:394 O '24
Reluctivity of the recently discovered magnetic metal, permalloy. A. E. Kennelly. J Fr Inst 197:623-7 My '24

PERMANENT court of international justice
President Coolidge in Memorial Day address argues for World court proposal of President Harding. Comm & Fin Chr 118:2783-4 Je 7 '24
Relation of the United States to the Permanent court of international justice. J: H. Clarke. Ann Am Acad 120:115-24 Jl '25
United States entry into World court again urged by President Coolidge. Comm & Fin Chr 120:780-1 F 14 '25
Unofficial Senate poll on World court. Comm & Fin Chr 121:535-6 Ag 1 '25
World court; something the United States can contribute to create a feeling of security in Europe. H: W. Taft. Ann Am Acad 120: 125-8 Jl '25

PERMANENT wave. See Hairdressing

PERMANGANATES
Solubility product of barium manganate and the equilibrium between manganate and permanganate ions. H. I. Schlesinger and H. B. Siems. diag Am Chem Soc J 46:1965-78 S '24

PERMEABILITY, Magnetic. See Magnetic permeability

PERMEAMETER
Checking the magnetic permeability of iron. P. B. Findley. il Sci Am 133:233 O '25

PERMEAMETER—*Continued*
Oscillographic study of the current and voltage in a permeameter circuit. W. B. Kouwenhouen and T. L. Berry, jr. diags Am Inst E E J 42:1305-8 D '23; Discussion. 43: 1168-70 D '24

PERMUTIT
Permutit patent void. Am Dyestuff Rep 12: 888-9 D 3 '23

PEROXIDES
Auto-oxidation of ethers. A. M. Clover. Am Chem Soc J 46:419-30 F '24
Ether studies; the quantitative determination of peroxide as a contaminant. A. W. Rowe and E: P. Phelps. Am Chem Soc J 46:2078-85 S '24
Function of peroxides and peracids in the electrochemical oxidation of organic compounds. F. Fichter. Am Electrochem Soc Trans v 45 (preprint 16):231-54 Ap '24
Reaction between organic peroxides and organomagnesium halides. H: Gilman and C. E. Adams. Am Chem Soc J 47:2816-21 N '25

PERPETUAL motion
Perpetual motion again. Sci Am 132:348+ My '25

PERRY, Heman E.
Largest negro commercial enterprise in the world. E. D. Walrond. por il Forbes 13: 503-5+ F 2 '24

PERSIA
Present day Persia. H. Alai. Bankers M 108: 83-92 Ja '24
See also Geology—Persia; Mines and mineral resources—Persia; Petroleum—Persia; Petroleum industry and trade—Persia

Economic conditions
Trade and industry of Persia. Engineering 120:390-1 S 25 '25

Foreign relations
United States government protests to Persia on killing of Vice-counsul Imbrie. Comm & Fin Chr 119:543-4 Ag 2 '24

PERSONALITY
Powerful personality. H. Whitehead. Am Exporter 95:11-12+ O '24

PERSONNEL classification. See Classification of positions

PERSONNEL management. See Employment management

PERU
Ellsworth expedition of the Johns Hopkins university to Peru. E: W. Berry. Manuf Rec 85:87-8 My 22 '24
Opening markets in Peru and Chile. E. R. Murphey. il System 46:281-4+ S '24
See also Automobile industry and trade—Peru; Copper mines and mining—Peru; Cotton—Peru; Electric industries—Peru; Metallurgical plants—Peru; Mines and mineral resources—Peru; Petroleum—Peru; Petroleum industry and trade—Peru; Roads—Peru; Rubber industry and trade—Peru

Boundaries
President Coolidge announces award in Tacna-Arica dispute—upholds Chile's claim for a plebiscite. Comm & Fin Chr 120:1409-10 Mr 21 '25; Bradstreet's 53:177 Mr 14 '25
Tacna-Arica award final. Bradstreet's 53: 257-8 Ap 18 '25

Economic conditions
Foreign securities in American markets—Republic of Peru. Annalist 23:414+ Ap 7 '24

PERYLENE
Manufacture of perylene. Soc Dyers & Col J 41:29 Ja '25

PESSANO, Antonio C., 1857-1923
Sketch. por Marine R 54:33 Ja '24

PETERBOROUGH, New Hampshire

Architecture
Town house and other buildings; views and plans. Arch Rec 56:321-33 O '24

Churches
All Saints church. H. D. Eberlein. il plans Arch Rec 58:278-88 S '25
All Saints' church, Peterboro, N.H. Arch Forum 40:pls 49-50 Ap '24

PETERSEN earth coil
German system readopts Petersen coil. map Elec W 84:786-7 O 11 '24
Regulation of the earth potentials of alternating-current systems. T. R. Warren. diags Inst E E J 63:1018-22 O '25

PETROLATUM
Comments on the measurement of consistency, with particular application to greases and petrolatum. R. E. Wilson and F. R. Baxter. Am Soc T M Pro 23 pt 2:453-5 '23
Story behind the trade-mark "vaseline." L. L. Cleaves. Ptr Ink 125:130+ D 6 '23

PETROLEUM
Colloids in petroleum and in the petroleum industry. A. E. Dunstan, F. B. Thole and W. H. Thomas. Soc Chem Ind J 44:439-43 Ag 28 '25; Abstract. Chem Age (Lond) 12: 583 Je 13 '25
Detection of small quantities of petroleum vapor with the Burrell methane indicator. G. W. Jones and W. P. Yant. diags U S Bur Mines Tech Pa 352:1-19, pl 1 '24
Effects of extraneous gas on the production of oil wells in the Lyons-Quinn field of Oklahoma. M. J. Kirwan. diags map U S Bur Mines Rep of Invest 2612:1-21 '24 (typew)
Das erdöl und seine verwandten, by H. Höfer-Heimhalt. Review, by D: White. Econ Geol 19:96-9 Ja '24
Fishes the source of petroleum. J: M. Macfarlane. 451p Macmillan '23
Formation of petroleum; abstract. H. Potonié. Soc Dyers & Col J 41:342 O '25
Fuel oil resources of the future. A. W. Nash and H. G. Shatwell. Chem Age (Lond) 11: 577-8 D 6 '24
Gas masks for gasoline and petroleum vapors. S. H. Katz and J. J. Bloomfield. diags U S Bur Mines Tech Pa 348:1-37, pl 1-8 '24
Handbook of petroleum, asphalt and natural gas. R. Cross. Rev. ed. 739p Kansas City testing laboratory, Kansas City, Mo. '24
Mineral industry of the British Empire and foreign countries; statistics, 1919-1921; petroleum and allied products. 143p Gt. Brit. Imperial mineral resources bur., London '23
New wood treating process. A. M. Howald. il Ry R 76:304-10 F 14 '25; Excerpts. Eng & Contr (G C) 63:319-22 Ap 17 '25
Observations on the minor constituents of petroleum. R. C. Wells. Econ Geol 20:286-8 My '25
Occurrence of vanadium and nickel in petroleum. E. DeGolyer. Econ Geol 19:550-5; Discussion. 555-8 S '24
Significance of nickel in petroleum. W: Ramsay. Inst Pet Tech J 10:87-91 F '24
Studies in emulsions; double reversal of oil emulsions occasioned by the same electrolyte. W: Seifriz. il J Phys Chem 29:738-49 Je '25
Surface tension of crude oils. E. H. Harvey. Ind & Eng Chem 17:85 Ja '25
Testing of petroleum oils for gasification. A: Holmes. Ind & Eng Chem 16:258-61 Mr '24
U.S. consumed 70 per cent of all petroleum used in 1923. Nat Pet N 16:117+ S 24 '24
Uses of petroleum, with special reference to the production of power. H. Barringer. Inst Pet Tech J 11:104-26 Ap '25
Vapour pressure of the crude oil of Maidan-i-Naftun and its products. W. H. Cadman. il diags Inst Pet Tech J 10:947-53 D '24
Whys and wherefores in oil; A.C.S. petroleum division. Pet Age 14:16-17+ S 1 '24
See also Bituminous materials; Fuel, Colloidal; Gas, Natural; Gas oil; Gasoline; Hydrocarbons; Inflammable liquids; Kerosene; Liquid fuel; Naptha; Oil lands; Oil shales; Oil storage; *also* American petroleum institute

PETROLEUM—*Continued*

Analysis

Analysis and testing of petroleum. S. Bowman. Inst Pet Tech J 10:628-31; 11:357-61 S '24, Ag '25

Aromatic hydrocarbons in Burmah petroleums. H. M. Mulany and E. R. Watson. Soc Chem Ind J 43:310-13 O 17 '24

Determination of naphthenes in petroleum spirits. W. R. Ormandy and E. C. Craven. Inst Pet Tech J 10:101-4 F '24

Lubricant and asphaltic hydrocarbons in petroleum. C: F. Mabery. Ind & Eng Chem 15:1233-8 D '23

Petroleum ash. W. H. Thomas. bibliog Inst Pet Tech J 10:216-20 Ap '24

See also Hydrocarbons—Analysis

Bibliography

Abstracts. S. F. Birch and others. Published in bi-monthly numbers of Journal of the Institution of petroleum technologists

Books on petroleum. G: Calingaert. Chem & Met Eng 32:385 Mr '25

Current bibliography. W. J. Wilson. Published in bi-monthly numbers of Journal of the Institution of petroleum technologists

Recent articles on petroleum and allied substances. H. Britton. Published monthly U S Bur Mines, 506 Custom House, San Francisco (typew)

Reports on progress of naphthology during 1923. Inst Pet Tech J 10:607-86 S '24

Reports on the progress of naphthology during 1924. Inst Pet Tech J 11:329-424 Ag '25

Chemistry

American chemical society; division of petroleum chemistry. Chem & Met Eng 30: 707-9 My 5 '24

Chemistry of petroleum; abstract. H. S. Garlick. Inst Pet Tech J 11:83-5 F '25

Naphthenic acids derived from Nishiyama petroleum. Y. Tanaka and S. Nagai. Am Chem Soc J 47:2369-71 S '25

Petroleum as a chemical raw material. B: T. Brooks. Ind & Eng Chem 16:185-9 F '24

Reports on the progress of naphthology during 1924. S. J. M. Auld. bibliog Inst Pet Tech J 11:350-6 Ag '25

Service of chemistry in developing the petroleum industry. R. R. Mathews. Nat Pet N 17:73+ O 28 '25

Solubility of the petroleum hydrocarbons. C. F. Mabery. diag Ind & Eng Chem 16:937 S '24; Same. Pet Age 14:14 S 15 '24

See also Petroleum—Refining

Conservation

Always some unavoidable waste in oil just as in any other commodity. J: Barneson. Nat Pet N 17:81+ Jl 8 '25

Beware of reserves! E. Oliver. Pet Age 15: 27-8 Je 1 '25

Control of country's oil production urged. G: O. Smith. Comm & Fin Chr 119:1912-13 O 25 '24

Control of gas pressure great factor in conservation of oil. S. F. Shaw. Nat Pet N 16: 64+ D 3 '24

Engineers question the workability of Doherty conservation plan. L. E. Smith. Nat Pet N 17:40 F 25 '25

Manual for oil and gas operations. T. E. Swigart and C. E. Beecher. diags U S Bur Mines Bul 232:1-138, pl 1-21 '23

Must control oil's flood. G: O. Smith. Pet Age 14:51+ O 15 '24

No preventable waste in oil production. J. E. Pew. Nat Pet N 17:91-2 Ag 19 '25

Oil and gas conservation in the field; abstract. R. R. Templeton. Mech Eng 47:651-2 Ag '25

Oil shortage is no serious question now, nor at any near date. W. S. Farish. Nat Pet N 17:30-3 My 20 '25

Only guides to future power supply are present utilized sources. L. E. Smith. il Nat Pet N 17:26+ F 4 '25

Recovering the maximum quantity of oil. S. F. Shaw. Eng & Min J 119:767-8 My 9 '25

Unit operation of leases advocated. J: H. Hammond. Nat Pet N 17:22-3 Ap 8 '25

Wastage and salvaging of oil at tanks in Salt Creek field, Wyo. J. S. Ross. il diag Nat Pet N 17:58+ Jl 22 '25

Wastage of petroleum. H. A. Wheeler. Eng & Min J 119:612-13 Ap 11 '25; Discussion. 119:851-2; 120:97-8 My 23, Jl 18 '25

See also Petroleum—Evaporation losses

Dehydration

Electrical dehydration of cut oil efficient and inexpensive. F. D. Mahone. Nat Pet N 15: 83+ O 31 '23

Methods used for dehydration of oil-field emulsions. D. B. Dow. U S Bur Mines Rep of Invest 2688:1-16 My '25 (typew)

Used oil field boilers form part of dehydrating plant on lease. L. E. Smith. il Nat Pet N 16:89+ Je 18 '24

See also Petroleum—Water problem

Emulsions

See Petroleum—Water problem

Evaporation losses

Effect of tank colors on operation losses of crude oil. L. Schmidt. U S Bur Mines Rep of Invest 2677:1-7 Mr '25 (typew); Excerpts. Pet Age 15:42+ Ap 15 '25

Loss in too many tanks. C. P. Buck. chart Pet Age 16:52+ N 1 '25

Making evaporation an ally; interview with C. P. Buck. Pet Age 13:18-19+ Ja 1; 23-4 Ja 15 '24

Methods of decreasing evaporation losses of petroleum. J. H. Wiggins. U S Bur Mines Tech Pa 319:1-57, pl 1-10 '23

Refiner and evaporation. C: P. Buck. Pet Age 15:20+ Mr 1 '25

Results of tests of evaporation loss from field storage tanks. H. T. Morley. Nat Pet N 16: 53+ Ag 20 '24

Some factors in oil lease operation. H. P. Porter. il Nat Pet N 16:77-9 My 21 '24

Tests show cutting of crude loss possible by using proper tank paint. Nat Pet N 17:36-8 Ap 8 '25

Thwarting the unseen thief. J. H. Wiggins. il Pet Age 14:16-17+ Ag 15 '24

Geology

Artesian control of oil and gas is indicated in Lake Basin field. Nat Pet N 16:45+ Jl 9 '24

Big Lake field considered in relation to other limestone developments. P. Wagner. Nat Pet N 17:99+ Mr 11 '25

Bradford operators study their field by taking cores of sand. L. E. Smith. il Nat Pet N 17: 91+ My 27 '25

Bradford sand coring completed; geologist analyzes results. Nat Pet N 16:49-50 Ag 13 '24

Clinton sandstone in Ohio. J. R. Lockett. Nat Pet N 16:73+ O 29 '24

Coal as an aid in oil exploration. E. R. Lilley. maps Eng & Min J 117:1009-12 Je 21 '24

Deep drilling in the Appalachian field. H. C. Cooper. Am Pet Inst Bul 5:61-5 D 31 '24; Same, without table. Nat Pet N 17:85-6+ Ja 7 '25

Elements of petroleum geology. F. M. Van Tuyl. 275p Petroleum pub. co. of Colorado, Denver '24

Failures narrow prospective area in South Vernon development. P. Wagner. Nat Pet N 16:65-7 D 10 '24

Few signs in western Kansas. R. C. Moore. map Pet Age 16:37-9 O 1; 40+ O 15 '25

Genesis of petroleum. P. E. Spielmann. 72p E. Benn, ltd., London '23

Geology and wildcatting in Colorado develop interesting data. Nat Pet N 16:42-4 Jl 2 '24

Geology of Sayre field, Oklahoma. R. A. Birk. Pet Age 14:65-6 Ag 1 '24

Geology of the oil fields in Japan. G. Kobayashi. Econ Geol 20:67-82 Ja '25

PETROLEUM—Geology—*Continued*

Geo-physical methods of finding domes widen Gulf coast possibilities. P. Wagner. Nat Pet N 17:91+ Jl 8 '25

Gulf coast saline domes. R: B. Thacker. diags Pet Age 13:22 F 1; 20+ Ap 1 '24

How deep can we drill, and what will we find when we get there? K. C. Heald. Nat Pet N 17:87+ O 14 '25; Excerpts. Pet Age 16:50+ O 15 '25

Importance of engineering work stressed in Graham report. A. F. Hinton. Nat Pet N 16:84+ N 12 '24

Introduction to the tectonics of the Rumanian oilfields. G. C. Flower. il Inst Pet Tech J 11:61-75 F '25

Little fishes and big oil pools. J: M. Macfarlane. Sci Am 130:244+ Ap '24

Methods used in study of cuttings from wells. E. D. Luman. Nat Pet N 17:40M-O Ap 29 '25

Micro-paleontology ultra scientific but of commercial value. P. Wagner. il Nat Pet N 16:85+ Jl 16 '24

Natural indications of petroleum. F. W. Moon. Inst Pet Tech J (Abstracts) 10:242-4 S '24

Newcomers active in salt dome fields; history and source of oil. P. Wagner. Nat Pet N 16:85-6+ Ap 2 '24

No waste in Rainbow Bend. map Pet Age 16:38+ N 1 '25

Northwest and desert basins of western Australia not promising for oil. F: G. Clapp. il Nat Pet N 17:22-4+ Ja 7 '25

Oil possibilities of Panama. J: F. Sheridan. map Eng & Min J 117:565-7 Ap 5 '24

Organic theories of oil origin. E. Clark. Inst Pet Tech J 11:317-23 Je '25

Origin of petroleum. Eng & Min J 117:370-1, 573-4 Mr 1, Ap 5 '24

Origin of petroleum. Sci Am 130:403 Je '24

Outlines of the occurrence and geology of petroleum. I. A. Stigand. 246p [bibliog. p. 222-4] C. Griffin & co., London '25

Petroleum geology. T. Dewhurst. Inst Pet Tech J 10:395-425; Discussion. 426-31 Jl '24

Petroleum supply of Japan. A. H. Nishihara. map Eng & Min J 119:449-50 Mr 14 '25

Petroleum supply of Japan. A. H. Redfield. Eng & Min J 120:325-33, 410-19 [bibliog. p. 417-19] Ag 29, S 12 '25

Pore space in oil sands given in detailed report. A. F. Melcher. Nat Pet N 17:43+ Ap 22 '25

Possible inorganic petroleum. J. V. Lewis. Eng & Min J 120:137-9 Jl 25 '25

Probable origin of light oils in the Rocky Mountain region. W. H. Geis. map Nat Pet N 16:71-2+ Ja 30 '24

Progress report on a subsurface study of the Pershing oil and gas field, Osage county, Oklahoma. W. W. Rubey. diags maps U S Geol S Bul 751—B:23-70, pl 7-9 '23

Relation between isocarbs and oil and gas production in Kentucky. W: L. Russell. diag map Econ Geol 20:249-60 My '25

Reports on the progress of naphthology during 1923; petroleum geology. J. N. Montgomerie. Inst Pet Tech J 10:655-61 S '24

Reports on the progress of naphthology during 1924; petroleum geology. W. R. Macdonald; J. E. M. Hall. bibliog Inst Pet Tech J 11:385-92 Ag '25

Some experiments on capillarity and oil migration. W: L. Russell. bibliog Econ Geol 19:35-61 Ja '24

Some recent researches bearing upon the origin of petroleum; discussion. Inst Pet Tech J 9:469-71 D '23

Stratigraphy of the petroliferous area of eastern Mexico. W. A. VerWiebe. Am J Sci 5th ser 8:277-95, 385-94, 481-502 [bibliog. p. 501-2] O-D '24

Structural and stratigraphic data of northeast Texas petroleum area. F. J. Fohs and H. M. Robinson. map Econ Geol 18:709-31, pl 12-14 [bibliog. p. 728-31] D '23; Discussion. F. H. Lahee. 19:563-5 S '24

Suggested origin of the oil-bearing strata of Burmah, deduced from the geological history of the country during tertiary times. M. Stuart. Inst Pet Tech J 11:296-304 Je '25

Sur la possibilité de formation du pétrole à partir d'hydrocarbures d'origine animale. E. André. Chimie & Ind 14:371-2 S '25

Technical exhibits typify changing attitude within oil industry. P. Wagner. il Nat Pet N 17:60+ S 30 '25

Tulsa geologists meeting. H. B. Goodrich. Nat Pet N 16:26-7 D 17 '24

Western plains baffling. R. C. Moore. Pet Age 15:42-3 Mr 1 '25

Wilcox sand proven in 7 fields in northern Oklahoma and Kansas. map Nat Pet N 17: 38-9 Je 10 '25

See also American association of petroleum geologists

Measurement

Conversion of petroleum weights and measures. G: Sell. chart Inst Pet Tech J 10:821-4 N '24

See also Oil measurement; Petroleum—Tables, calculations, etc.

Mining process

New method of producing oil is given first test in Jacksboro field. L. E. Smith. il plans Nat Pet N 16:63-5+ N 5 '24

Panhandle's oil mine in Electra field is near operating stage. L. E. Smith. Nat Pet N 17:31 N 4 '25

Possibilities of petroleum recovery by mining; with cost table. J: L. Rich. bibliog Eng & Min J 119:919-24 Je 6 '25

Presentation of the Boverton Redwood medal to M. Paul De Chambrier. Inst Pet Tech J 11:128-32 Ap '25

Recovery of oil by shafts and galleries in France and Germany. C: Camsell and A. Buisson. Nat Pet N 16:99+ My 21 '24

Unique method of mining oil in Texas; the Ranney process. L. E. Smith. Nat Pet N 16:33 O 29 '24

Paraffin problem

Painting casing and melting paraffin, two methods of cutting costs. L. E. Smith. Nat Pet N 16:88 N 19 '24

Paraffin problem in oil wells. R. Van A. Mills. U S Bur Mines Rep of Invest 2550:1-11 D '23 (typew): Same. Nat Pet N 15:58+ D 26 '23; 16:67+ Ja 2 '24

Peculiar manner of wax accumulation in Salt Creek wells. L. E. Smith. il Nat Pet N 17: 48+ Ap 1 '25

Successful method of melting paraffin in wells found by Hope company. L. E. Smith. il Nat Pet N 17:55-6+ Ja 28 '25

Prices

Appraisal of oil and gas properties; prediction of future prices. Nat Pet N 16:63-4+ O 22 '24

Can oil producer afford to have price based on the price of coal? W. H. Gray. Nat Pet N 16:23-4 D 3 '24

Costs in Rocky Mountain fields and in competitive fields. C. A. Fisher. Nat Pet N 16: 32F+ D 10 '24

Crude oil prices. Published in weekly numbers of National petroleum news

Economics of the oil industry. R. Waley-Cohen. Inst Pet Tech J 10:371-90; Discussion. 391-4 Jl '24

Facing facts in petroleum. C: E. Mitchell. Am Pet Inst Bul 5:2-4 D 10 '24

Making of oil prices. Economist 98:1191-2, 1244-5 Je 14-21 '24

Mid-continent crude prices increased with 17 gravity grades. A. F. Hinton. Nat Pet N 17:31 Jl 15 '25

Petroleum and its products. Published in weekly numbers of Oil paint and drug reporter

Petroleum and its products: market review. Oil Paint & Drug Rep 105:74-7 Mr 20 '24

Petroleum and its products; market review. Oil Paint & Drug Rep 107:73-7 Mr 26 '25

PETROLEUM—Prices—*Continued*
Proposes remedy for arbitrary movement of crude oil prices. L. B. Dunham. Nat Pet N 16:99 N 26 '24
Relation of crude price to output over 3 years. A. F. Hinton. Nat Pet N 16:28 N 19 '24

Production estimates

Estimation of underground oil reserves by oil-well production curves. W. W. Cutler, jr. [bibliog. p. 110-11] il charts U S Bur Mines Bul 228:1-114 '24
Exploration of oil without exploitation requisite for sound basis. F. J. Fohs. Nat Pet N 17:203 My 13 '25
New light on oil recovery. Pet Age 15:20-1 My 1 '25

Production methods

Air successful in increasing flow of wells at Powell. L. E. Smith. il Nat Pet N 16:40 Je 11 '24
Backward look at the days when the oil industry was young. I. L. Neely. Nat Pet N 17:75-6 S 30 '25
Baku field production. S. A. Hamilonoff. Nat Pet N 16:78-9+ Jl 23 '24
Better handling of gas will add much to recovery of oil. S. F. Shaw. Nat Pet N 17: 56+ Ag 26 '25
Board sends out third set of questions, this time on recovery methods. Nat Pet N 17:39-40 F 11 '25
Bringing wells into production. A. F. Dabell. Inst Pet Tech J 11:311-16 Je '25
California recovery of oil by perforating the water string. H. A. Godde. diag Nat Pet N 15:86-7 N 21 '23
Chemical added to water helps flooding of Bradford sand. Nat Pet N 17:75 Jl 15 '25
Chemical problems in the water driving of petroleum from oil sands. P. G. Nutting. Ind & Eng Chem 17:1035-6 O '25
Compressed air gives satisfactory results in cleaning out wells. J. O. Lewis. Nat Pet N 16:61 F 27 '24
Compressed air on sand gets big result in small pool. L. E. Smith. map Nat Pet N 17:99+ Je 24 '25
Control of gas pressure great factor in conservation of oil. S. F. Shaw. Nat Pet N 16: 64+ D 3 '24
Discussion of flooding chief topic before N.Y. state meeting. L. E. Smith. Nat Pet N 17: 31 Jl 1 '25
Estimate of the effect of vacuum on the production of oil. A. B. Morris. Nat Pet N 16: 91-2 F 27 '24
Experiments in the use of back pressures on oil wells. T. E. Swigart and C. R. Bopp. U S Bur Mines Tech Pa 322:1-65, pl 1-5 '24
Extraneous gas in Lyons-Quinn field increased oil yield 950,000 bbls. A. F. Hinton. Nat Pet N 16:69+ Jl 9 '24
Frank A. Howard patents method of distilling crude oil underground in worn-out fields. diags Nat Pet N 16:97-8 F 27 '24
Gas blowouts and water above deep pay are Smackover problems. P. Wagner. il Nat Pet N 17:24-5 My 6 '25
If pumping no longer pays. il Pet Age 16: 24-5 Jl 15 '25
If the industry needs anything it is better co-operation within itself. W: N. Davis. Nat Pet N 17:51-2 Mr 4 '25
Increasing production of petroleum by increasing diameter of wells. L. C. Uren. diags Nat Pet N 17:99+ F 4 '25
Intensive flooding successfully used on small Pennsylvania lease. W: Piper. Nat Pet N 17:72+ Jl 15 '25
Interest in methods of increasing recovery is general. Nat Pet N 17:95+ Je 24 '25
Large part of oil in sand recovered by methods in common use. M. E. Lyster and R. B. Swiger. il Nat Pet N 17:74+ Jl 22 '25
Longer life for oil wells. Pet Age 15:64 F 15 '25
Manual for oil and gas operations. T. E. Swigart and C. E. Beecher. diags U S Bur Mines Bul 232:1-138. pl 1-21 '23
Many refinements in flooding oil sands needed. F: H. Newell. Nat Pet N 16:48 S 17 '24
New method of flooding Bradford sand is now successfully used. L. E. Smith. diags Nat Pet N 16:37-8+ F 6 '24
Oil left in sands under present field methods is reserve for future. P. Wagner. Nat Pet N 17:131+ Ap 1 '25
Oil recovery big problem. J: B. Rathbun. Pet Age 16:52+ Ag 1 '25
Oil well booster methods studied. Oil Paint & Drug Rep 108:22 Ag 24 '25
Pepping up old oil wells. Pet Age 14:15-16+ Jl 15 '24
Process is evolved to recover oil from bituminous sands. L. E. Smith. il Nat Pet N 17: 31-3 Je 10 '25
Producer will benefit by trading his gas for vacuum service. A. B. Morris. Nat Pet N 15:75+ D 12 '23
Recovering the maximum quantity of oil. S. F. Shaw. Eng & Min J 119:767-8 My 9 '25
Relationship of oil and gas. T. E. Swigart. Pet Age 15:24-5+ Je 15 '25
Restoration of pressure to oil sand increasing in oil fields. L. E. Smith. Nat Pet N 16:71+ My 7 '24
Some factors in oil lease operation. H. P. Porter. il Nat Pet N 16:102+ My 14; 77-9 My 21 '24
Some methods of prolonging natural flow of oil wells. J: M. Lovejoy. Nat Pet N 16:71+ My 21 '24
Swabbing. A. Millar. Inst Pet Tech J 10:105-8; Discussion. 108-10 F '24
Thermal oil mining. E. Lord. Oil Paint & Drug Rep 108:22 Ag 24 '25
Tidal has ingenious method of gauging each well. Nat Pet N 17:83 Ag 12 '25
Two advances in production methods described to A.I.M.M.E. A. F. Hinton. Nat Pet N 17:85+ My 27 '25
Working out questionnaires of Federal oil conservation board. Nat Pet N 17:44-6 Mr 11 '25

See also Petroleum—Mining process; Petroleum—Paraffin problem; Petroleum—Water problem

Production records

Determination of pay strata in oil sands by use of gas meters. C. V. Millikan. Nat Pet N 17:59+ S 23 '25
Down-time record important factor in efficient lease operation. A. F. Hinton. Nat Pet N 17:94-6 Jl 15 '25

Prospecting

Bradford sand core expected to cast light on flooding problems. L. E. Smith. Nat Pet N 16:39-40 Jl 23 '24
Bradford sand coring completed; geologist analyzes results. Nat Pet N 16:49-50 Ag 13 '24
Comprehensive testing of deep sands in Salt Creek is planned. Nat Pet N 16:41-3 Jl 16 '24
Day of wildcatter over? Pet Age 14:16+ N 1 '24
Drilling of Isthmus salt domes renewed. P. Wagner. Nat Pet N 17:33-4 Jl 15 '25
Gamble in oil almost gone? J. B. Rathbun. Pet Age 14:25-6 O 1 '24
Gaseous content of ground waters as an aid to the petroleum and natural gas prospector. G. W. Jones, W. P. Yant and E. P. Buxton. diag U S Bur Mines Rep of Invest 2553:1-15 D '23 (typew)
The geologist and the petroleum industry. E. DeGolyer. Am Pet Inst Bul 5:24-7 D 31 '24; Same. Nat Pet N 16:45-6+ D 17 '24
Geophysical surveys as aids to the geologist. E. H. C. Craig. Inst Pet Tech J 10:818-20 N '24
How the diamond drill proved useful on one oil lease. J. Purzer. diags Eng & Min J 116:947-8 D 1 '23
Northwest and desert basins of western Australia not promising for oil. F: G. Clapp. il Nat Pet N 17:22-4+ Ja 7 '25
Petroleum indications. H. R. Lovely. Inst Pet Tech J 11:323-5 Je '25

PETROLEUM—Prospecting—*Continued*

Prospecting for petroleum in Australia. E. C. Andrews. map Econ Geol 19:157-68 Mr '24

Seismograph king on Gulf. F. Ennist. Pe+ Age 15:54+ Mr 15 '25

Technical exhibits typify changing attitude within oil industry. P. Wagner. il Nat Pet N 17:60+ S 30 '25

Yea, quest for oil is costly; Standard of California abandons wildcat campaign in Philippines. Pet Age 14:17 Jl 15 '24

Pumping

Devices for deep pumping. il Pet Age 13:61-2 Ap 15 '24

Easy way to replace wrecked derrick. il Nat Pet N 16:69 My 21 '24

Economies of pumping oil electrically. S. G. Gassaway. il Elec W 86:374 Ag 22 '25

Electric power in Oklahoma oil fields. il Elec W 85:1119-22 My 30 '25

Electricity applied to the winning of crude petroleum, with special reference to the Yenangyoung field, Burma. C. H. McCarthy-Jones. il diags Inst Pet Tech J 10: 115-48; Discussion. 148-55 Ap '24

Improved type of plunger pump for oil well service. L. C. Uren. diags Nat Pet N 17:41+ S 9 '25

Long stroke pumping devices reduce sucker rod breakage. G. R. Taaffe. il diags Nat Pet N 16:67-8+ Je 4 '24; Same cond. Pet Age 13:58+ Je 1 '24

Long stroke, slow motion pumps used successfully in Oklahoma. A. F. Hinton. il Nat Pet N 16:91-2 Mr 19 '24

Longer stroke, slow motion adds to life of pumping equipment. il Nat Pet N 16:35 F 20 '24

Midwest about ready to operate its Salt Creek wells electrically. T. R. Ingram. il Nat Pet N 16:60-2 D 3 '24

New devices from old equipment feature this pumping power. L. E. Smith. il Nat Pet N 17:55-6 Ap 22 '25

New method of pumping oil wells now used in southeast Ohio; Smith-Dunn air pumps. J. O. Lewis. diags Nat Pet N 16:53-4 F 20 '24

Petroleum engineering; pipe-line pumping plant. C. Dalley. diags plans (supp) Inst Pet Tech J 10:462-3 Jl '24

Pumping deep wells in California. J. A. Zublin. diag Am Pet Inst Bul 5:55-61 D 31 '24; Excerpt. Soc Auto Eng J 16:646 Je '25

Pumping oil wells by electric power. P. Luders. il Nat Pet N 16:91 N 12 '24

Santa Fe Springs pumps 179 deep wells, averaging 138 barrels a day. P. Wagner. Nat Pet N 16:31-2 My 14 '24

Some factors in oil lease operation. H. P. Porter. il Nat Pet N 16:77-9 My 21 '24

Special committee on standardization of pumping equipment and engines as applied to the production of oil; report. Am Pet Inst Bul 6:92-8 S 4 '25

Steel and concrete rig foundation meet West Virginia operator's problem. il Nat Pet N 16:67+ Jl 23 '24

Surface machinery and methods for oil-well pumping. H. C. George. il diags U S Bur Mines Bul 224:1-148, pl 1-32 [bibliog. p. 140-1] '25

Texas co. gets increased production with long stroke and slow motion. A. F. Hinton. il Nat Pet N 17:89-90 Je 24 '25

Utilization of electricity in the Salt Creek oil fields. C. H. Vivian. il J Elec 54:359-60 My 15 '25

Walking beam pumping increases shallow field oil yields. P. Wagner. il Nat Pet N 17: 30 Jl 29 '25

Wide range of equipment for better operating is offered producer. Nat Pet N 17:90+ S 30 '25

See also Sucker rods

Sampling

Examination and correlation of field samples in Gulf coast. G: M. Bevier. Nat Pet N 16: 85-6 Mr 26 '24

Valuable data obtained by use of cable tool core barrel. V. C. Smith. diag Nat Pet N 17:66 Ag 26 '25

Storage

See Oil storage; Petroleum storage

Study and teaching

Petroleum technology special course offered at Oklahoma university. A. F. Hinton. Nat Pet N 16:85+ N 5 '24

Sulfur content

Action of petroleum-refining agents on pure organic sulfur compounds dissolved in naphtha. A. E. Wood, A. Lowy and W. F. Faragher. Ind & Eng Chem 16:1116-20 N '24

Chemistry of petroleum; the occurrence of compounds of sulphur in the light distillate from the crude oil of Maidan-i-Naftun. S. F. Birch and W. S. G. P. Norris. Chem Soc J 127:898-907 Ap '25; Abstract. Soc Chem Ind J (Chem & Ind) 44:168 F 13 '25

Desulphurising of crude oil distillates by means of hypochlorite, after the method of Dunstan and Brooks. H. I. Waterman and J. H. Heimel. Inst Pet Tech J 10:812-15 N '24

Distribution of sulphur in crude petroleum. N. A. C. Smith and D. D. Stark. diags U S Bur Mines Rep of Invest 2582:1-17 Mr '24 (typew)

Distribution of sulfur in the fractions derived from crude petroleum. A. P. Bjerregaard. Ind & Eng Chem 17:142-4 F '25

Investigation of toxic gases from Mexican and other high-sulphur petroleums and products. R. R. Sayers and others. il diags U S Bur Mines Bul 231:1-108, pl 1-17 '25

Tables, calculations, etc.

Abridged table for temperature volume corrections is approved. Nat Pet N 16:40 D 17 '24

Abridged table of multipliers for correcting the volume of petroleum products to a 60° temperature base. R. P. Anderson. Am Pet Inst Bul 5:107-9 D 31 '24

National standard petroleum oil tables. U S Bur Stand Circ 154:1-175 '24; Abstract. J Fr Inst 198:100-1 Jl '24

Terminology

Petroleum glossary. J. B. Rathbun. Pet Age 13:55+ Ja 1; 63+ Ja 15; 59+ F 1; 73 Mr 1; 14:61+ S 15; 85+ O 1; 61+ O 15; 69+ N 1; 71+ N 15; 63, 65 D 1; 61+ D 15 '24; 15: 69+ F 15 '25

Report of sub-committee XX on nomenclature. Am Soc T M Pro 24 pt 1:563-5 '24

Testing

Standard methods of testing petroleum and its products. 100p Institution of petroleum technologists, London '24

Transportation

Commission considers what rate applies on crude-casinghead shipment. Nat Pet N 17: 79-80 Ja 21 '25

Difference of six cents 100 pounds set in crude and refined rates. Nat Pet N 17:59 N 4 '25

Freight rates cut from Mid-continent to all Indiana points. A. E. Heiss. Nat Pet N 17: 27 Mr 25 '25

I.C.C. rules against extra rates on reconsigned shipments. A. E. Heiss. Nat Pet N 16:50 My 21 '24

Kansas refiners lead rate attack; other groups will follow. J. C. Chatfield. Nat Pet N 16: 27-8 F 13 '24

Law question involved in effort to market oil from new pool. Nat Pet N 17:143 Je 24 '25

May introduce spread between crude and refined rates east of Mississippi river. A. E. Heiss. Nat Pet N 16:24 D 17 '24

New Orleans refiner widens market by barging oil to Memphis. W. K. Halbert. Nat Pet N 16:17-18 F 6 '24

PETROLEUM—Transportation—*Continued*

Oil flow-viscosity and heat transfer. R: S. Danforth. 18p R: S. Danforth, 525 Market st., San Francisco '23

Rate increases and group changes are proposed at I.C.C. hearing. J. C. Chatfield. map Nat Pet N 16:24+ Je 11 '24

Refiners win point on proportional rates at Fort Worth hearing. Nat Pet N 16:35-6 N 5 '24

Standard of New Jersey wins fight on rates to North Carolina. Nat Pet N 17:27 Jl 22 '25

Through rates to Ohio and southeast goal since Indiana victory. J. C. Chatfield. Nat Pet N 17:67+ Jl 15 '25

Transportation of oil. Am Pet Inst Bul 4:143-53 D 31 '23

Western refiners lose one round in fight to adjust rates. A. E. Heiss. Nat Pet N 16: 37-8 Ag 27 '24

Wide survey of freight rates will be important to industry. A. E. Heiss. Nat Pet N 16:23+ Jl 23 '24

See also Petroleum pipe lines; Tank cars; Tank ships; Tank trucks

Tunnel drainage

See Petroleum—Mining process

Water problem

California oil field waters. C. Palmer. Econ Geol 19:623-35 N '24; Discussion. B. C. Renick. 20:697-8 N '25

Cementing deep wells and shutting off water in California. F. F. Hill. Nat Pet N 16:53-5 D 24 '24; Same. Am Pet Inst Bul 5:65-8 D 31 '24

Consistent repairing of wells greatly benefits north Cushing field. L. E. Smith. map Nat Pet N 16:83-6 Je 25 '24

Consistent work on water problems in El Dorado keeps field producing. L. E. Smith. il Nat Pet N 16:87-9+ S 10 '24

Formation of oil-field emulsions. D. B. Dow. U S Bur Mines Rep of Invest 2683:1-9 Mr '25 (typew); Same cond. Pet Age 15:61+ My 15 '25

How to use long shoe; water shut off easily in California by this method. R. G. Rogers. diag Pet Age 16:53 S 1 '25

Ice plug for water trouble. E. J. Munger. diags Refrig Eng 10:168-9 N '23

Manual for oil and gas operations. T. E. Swigart and C. E. Beecher. U S Bur Mines Bul 232:1-46, pl 1-8 '23

Physical chemistry of oil-field emulsions. D. B. Dow and C. E. Reistle, jr. U S Bur Mines Rep of Invest 2692:1-14 Je '25 (typew)

Powell wells require re-conditioning; Bureau of mines method. P. Wagner. diag Nat Pet N 15:66-8 D 12 '23

Prevention of emulsions. A. B. Thompson. Inst Pet Tech J 10:326-9 Je '24

Re-conditioning of Smackover wells would increase oil yields. P. Wagner. Nat Pet N 15:83+ N 28 '23

Salt water disposal solved in Texas fields by co-operative work. P. Wagner. il Nat Pet N 17:47-8 Mr 11 '25

Some notes on water shut off. F. G. Rapoport. bibliog diags Inst Pet Tech J 11: 234-53 Je '25; Abstract. Engineering 119:738 Je 12 '25; Discussion. Inst Pet Tech J 11: 254-83 Je '25

Tube section treating plant cuts oil recovery costs 6 cents a barrel. P. Wagner. il diag Nat Pet N 16:71+ Jl 23 '24

See also Petroleum—Dehydration; Petroleum—Well cementing

Well boring

Allen's superintendents hand book. 336p H. D. Allen, Los Angeles '24

Anyone can have trouble in drilling—the expert knows how to get out. L. E. Smith. Nat Pet N 17:78-80 S 30 '25

Automatic feed and power control are provided for rotary drilling. W. H. Jeffery. diag Nat Pet N 17:85-6+ S 30 '25

Cable drilling tool joints standardized. Nat Pet N 17:47 Je 24 '25

Chain plays big role in oil. C: R. Weiss. Pet Age 16:55 S 15 '25

Conservation of natural gas in drilling operations; use of gas as fuel. W. D. Stoughton, R. A. Frevert and C. D. Warthen. Nat Pet N 17:83+ Ja 21 '25

Correct lay for wire lines used upon oil wells. J. T. Hayward. Engineer 138:593 N 21 '24; Discussion. P. H. Mangin. 138:609 N 28 '24

Critical line of drilling in oil-field development. S. H. Brockunier. Eng & Min J 117: 850-1 My 24 '24

Deep drilling in the Appalachian field. H. C. Cooper. Am Pet Inst Bul 5:61-5 D 31 '24; Same, without table. Nat Pet N 17:85-6+ Ja 7 '25

Deepest hole in Ohio is also deepest 8-inch; excellent drilling job. L. E. Smith. il Nat Pet N 16:45-6 Jl 30 '24

Detonators for shooting oil wells; past and present. J. Calhoun. il Eng & Min J 120: 732-5 N 7 '25

Dressing and tempering of bits in the oil fields. F. B. Foley. Am Pet Inst Bul 5:68-72; Discussion. 72-5 D 31 '24

Driller has benefitted greatly through changes in cable-tool equipment. L. E. Smith. il Nat Pet N 17:52-3 S 30 '25

Drilling in Archer county attractive to large and small operators. L. E. Smith. Nat Pet N 16:58+ Jl 16 '24

Drilling in Trinidad cannot be called "Leading the life of Riley." C. Fay. il Nat Pet N 17:33-4 Jl 29 '25

Drilling methods and tools. A. Carter. bibliog Inst Pet Tech J 11:392-5 Ag '25

Drilling to 10,000 feet probably to be reached in future. P. Wagner. Nat Pet N 17:85-6 Je 24 '25

Drilling well simple, but—. Pet Age 16:20-1 Ag 15 '25

Effects of close spacing of wells pointed out by Mines bureau. Eng & Min J 116:812 N 10 '23

Electric power in Oklahoma oil fields. il Elec W 85:1119-22 My 30 '25

Electric power in the oil fields. H. N. Carroll. il J Elec 53:194-8 S 15 '24

Electric power used in drilling 6800 feet deep in Colorado. A. F. Hinton. il Nat Pet N 17: 79-80 Je 24 '25

Electricity applied to the winning of crude petroleum, with special reference to the Yenangyoung field, Burma. C. H. McCarthy-Jones. il diags Inst Pet Tech J 10: 115-48; Discussion. 148-55 Ap '24

Evolution of oil-well drilling methods; with discussion. A. B. Thompson. diags Inst Pet Tech J 10:432-58 Jl '24

Galician-Canadian pole tool fishing methods. A. Miller. il diags Inst Pet Tech J 9:397-417 D '23; Same cond. Engineering 116:634-8 N 16 '23; Discussion. Inst Pet Tech J 9:417-26 D '23

Gasoline drilling engines to solve Artesia water problem. Nat Pet N 17:73 S 2 '25

High pressure gas and water zones are big problem in Smackover. P. Wagner. il Nat Pet N 17:71-2 O 7 '25

How deep can we drill, and what will we find when we get there? K. C. Heald. Nat Pet N 17:87+ O 14 '25; Excerpts. Pet Age 16: 50+ O 15 '25

How Gulf coastal wells are drilled and put on production. P. Wagner. Nat Pet N 17: 133+ Ap 15 '25

Improved electric rotary oil well drilling device. L. H. Keim. il J Elec 53:364-5 N 15 '24

Increasing production of petroleum by increasing diameter of wells. L. C. Uren. diags Nat Pet N 17:99+ F 4 '25

Machines and equipment used in world quest for oil. E. L. D. Seymour. il Dun's Int R 45:42-6 Jl '25

Making 917 feet of hole in 12 hours. P. Wagner. Nat Pet N 17:83+ Mr 11 '25

PETROLEUM—Well boring—*Continued*
Measuring depth accurately in rotary well drilling. A. G. Wolf. diags Eng & Min J 116:1122-3 D 29 '23
Modern rotary drilling system. L. R. McCollum. il plans Inst Pet Tech J 10:1-26 F '24; Same cond. Engineering 116:789-90 D 21 '23; Abstract. Mech Eng 46:358-9 Je '24; Summary. Sci Am 130:394 Je '24; Discussion. Inst Pet Tech J 10:26-41; 11:202-4 F '24, My '25
New drilling outfit by Wellman, Seaver, Morgan company. il Pet Age 13:70 My 15 '24
Oil well drilling methods. V: Ziegler. 257p Wiley '23
Oklahoma's deepest well establishes several drilling records. C. I. O'Neill. il Nat Pet N 16:83+ Ap 23 '24; Same, without tabulation. Pet Age 13:19-20 Ap 1 '24
Operators show why proposed rules governing methods of drilling and cementing wells would hamper industry. Nat Pet N 16:45 D 3 '24
Percussion systems of drilling. H. G. Austin. Inst Pet Tech J 10:695-704; Discussion. 704-6 S '24
Progress report of American petroleum institute committee on rig iron standardization. Nat Pet N 16:104+ N 12 '24
Re-conditioning of Smackover wells would increase oil yields. P. Wagner. Nat Pet N 15:83+ N 28 '23
Report of special A.P.I. committee on the standardization of rotary drilling equipment. diag Am Pet Inst Bul 6:42-68 S 4 '25
Report of special committee on standardization of rig irons. Am Pet Inst Bul 5:44-5 D 31 '24
Report of the special committee on the standardization of rotary drilling equipment. Am Pet Inst Bul 5:40-4 D 31 '24; Nat Pet N 16: 101-2+ N 12 '24
Report on Cromwell field gives much valuable data on development; with cost tables. A. F. Hinton. map Nat Pet N 17:90-1+ Mr 18 '25
Shooting an oil well with dynamite. S. H. Brockunier. il Eng & Min J 120:17-18 Jl 4 '25
Union's second gasser on Wellington blows in and catches on fire. T. R. Ingram. il Nat Pet N 16:39-40 Jl 30 '24
Use of rotary tools in Oklahoma has spread rapidly in few years. A. F. Hinton. il Nat Pet N 17:55-6+ S 30 '25
Waste a misunderstood term. W: L. Russell. Nat Pet N 17:62 F 4 '25
Well trouble report analyzes production losses. A. F. Hinton. Nat Pet N 17:51 Ap 1 '25
Wildcat uses gasoline engine with light rotary. P. Wagner. il Nat Pet N 16:43 Jl 9 '24

See also Petroleum—Prospecting

Well casing

Barnsdall company has systematic way of handling old casing. A. F. Hinton. il Nat Pet N 17:205+ My 13 '25
California casing standardization is now partly in effect. Nat Pet N 16:44 Ag 6 '24
Drilling screen holes in oil-well casing. C. S. Ashley. il diag Mach 32:190 N '25
Final report on casing standardization. J. E. Pew. Nat Pet N 16:42 D 17 '24
Most abandonments of Trenton Rock wells caused by bad casing. L. E. Smith. Nat Pet N 16:21+ Ja 9 '24
New method of testing casing. Nat Pet N 16:71+ Jl 2 '24
Painting casing and melting paraffin, two methods of cutting costs. L. E. Smith. Nat Pet N 16:88 N 19 '24
Tensile and collapsing strength of seamless casing. H. A. Thomas. il Am Pet Inst Bul 5:76-81; Discussion. 81-2 D 31 '24

Well cementing

Advantages of rapid-setting cement in oil wells. Eng & Min J 117:239 F 9 '24
Cementing deep wells and shutting off water in California. F. F. Hill. Nat Pet N 16:53-5 D 24 '24; Same. Am Pet Inst Bul 5:65-8 D 31 '24
Cementing off cave saves expense and trouble. L. E. Smith. diag Nat Pet N 15:25-6 D 5 '23
Consistent repairing of wells greatly benefits north Cushing field. L. E. Smith. map Nat Pet N 16:83-6 Je 25 '24
Louisiana-Arkansas operators fight Halliburton-Perkins cementing process patent. Nat Pet N 17:75 Mr 18 '25
Operators show why proposed rules governing methods of drilling and cementing wells would hamper industry. Nat Pet N 16:45 D 3 '24
Powell wells require re-conditioning; Bureau of mines method. P. Wagner. diag Nat Pet N 15:66-8 D 12 '23
Setting cement with dynamite successful. P. Wagner. diag Nat Pet N 16:93 Je 11 '24

Well cleaning

Cleaning oil wells by air. A. A. Beard and R. A. Bonnell. Pet Age 16:48-9 S 1 '25
Cleaning out with air revolutionary advance in production methods. A. F. Hinton. il Nat Pet N 17:50-2+ Je 24 '25
Cleaning wells with fluids. L. Suverkrop. Pet Age 13:28+ My 1 '24
Kentucky company saves money cleaning wells with tractors. il Nat Pet N 16:54 S 10 '24
Painting casing and melting paraffin, two methods of cutting costs. L. E. Smith. Nat Pet N 16:88 N 19 '24
Portable outfit for cleaning wells with air successfully used. J. O. Lewis. Nat Pet N 16:83+ Ag 13 '24

Well temperature

Apparatus for the measurement of temperatures in deep wells by means of maximum thermometers. C. E. Van Orstrand. il diags Econ Geol 19:229-48 Ap '24

Alaska

Arctic development proceeds despite wind and snow of winter. Nat Pet N 16:83-4 My 21 '24
Cold Bay-Chignik district, Alaska. W. R. Smith and A. A. Baker. U S Geol S Bul 755—D:205-11 '24
Outlook for petroleum near Chignik. G: C. Martin. U S Geol S Bul 773:209-13, pl 5 '25
Petroleum on Alaska peninsula. K. F. Mather, W. R. Smith and G: C. Martin. U S Geol S Bul 773-D:159-213, pl 3-5 '25
Reconnaissance of the Point Barrow region, Alaska. S. Paige, W. T. Foran and J. Gilluly. diags U S Geol S Bul 772:1-33, pl 1-9 '25
Survey men return from difficult trip into Alaskan naval reserve. A. E. Heiss. il Nat Pet N 17:67-8+ Ja 21 '25

Alberta

Alberta well champion producer of high gravity oil. C. A. Bloom. il Nat Pet N 17:79+ Ag 5 '25
Deep test brings Alberta operators back to their first oil field. L. E. Smith. il Nat Pet N 17:141+ Je 24 '25
Eastern Alberta well's performance is big encouragement. L. E. Smith. il map Nat Pet N 15:59-61 D 5 '23
New development in the Turner Valley oil field, Alberta. R. T. Elworthy. Inst Pet Tech J 11:200-1 Ap '25
Wainwright oil and gas area, Alberta. G. S. Hume. Inst Pet Tech J 10:83-4 F '24
Wainwright-Irma oil and gas area, Alberta. G. S. Hume. Inst Pet Tech J 11:201-2 Ap '25

Alsace

Les lois géologiques du gisement de pétrole de Pechelbronn (Alsace). Génie Civil 85:96-7 Jl 26 '24

PETROLEUM—*Continued*

Argentina

Oilfields of Argentina. C. M. Hunter. il maps plan Inst Pet Tech J 10:829-45; Discussion. 845-53 D '24

Reports on the progress of naphthology during 1924. C. M. Hunter. Inst Pet Tech J 11: 420-2 Ag '25

Arkansas

Deeper pay in Smackover heavy oil area stimulates rush to drill. P. Wagner. Nat Pet N 17:42+ Mr 18 '25

Eastern Smackover, Arkansas, oil and gas fields; state federal report. J. G. Ferguson. 48p Arkansas, Bur. of mines, manufactures, and agriculture, Little Rock '23

Gas showings point way to Arkansas and Louisiana development. P. Wagner. Nat Pet N 17:44-5 S 16; 128c+ S 30; 34 O 7 '25

Smackover breaks its own records; still deeper possibilities. P. Wagner. Nat Pet N 17:25 Je 3 '25

Smackover deep pay, with peak ahead, important to general industry. P. Wagner. Nat Pet N 17:25-6+ Ap 29 '25

Smackover operators are hard pressed to find names for sands. Nat Pet N 17:39 Je 24 '25

See also Petroleum industry and trade—Arkansas

Australia

Australian trade and her oil resources. Engineering 117:150 F 1 '24

Northwest and desert basins of western Australia not promising for oil. F: G. Clapp. il Nat Pet N 17:22-4+ Ja 7 '25

Prospecting for petroleum in Australia. E. C. Andrews. map Econ Geol 19:157-68 Mr '24

Borneo

Crude oil of Sarawak. J. Kewley. Inst Pet Tech J 10:42-50 F '24

Brazil

Petroleum in Brazil. M. A. Cremer. U S Bu. For & Dom Com Trade Information Bul 311:1-32 '25

Burmah

See Petroleum—India

California

California oil field waters. C. Palmer. Econ Geol 19:623-35 N '24; Discussion. B. C. Renick. 20:697-8 N '25

Geology and oil resources of a part of Los Angeles and Ventura counties, California. W: S. W. Kew. maps U S Geol S Bul 753: 1-202, pl 1-17 '24

Progress in California petroleum technology. G. Egloff and A. R. Chandler. Chem Age 32:405-7 O '24

Properties of typical crude oils from the producing fields of California. A. J. Kraemer and H. M. Smith. U S Bur Mines Rep of Invest 2595:1-55 Ap '24 (typew); Abstract. Power Pl Eng 28:587 Je 1 '24

See also Oil shales—California; Petroleum industry and trade—California

Canada

Liquid fuels in Canada. Inst Pet Tech J 10: 824-5 N '24

Oil developments and prospects in Canada. G. S. Hume. Inst Pet Tech J 11:411-19 Ag '25

Oil situation and prospects in Canada. G. S. Hume. Inst Pet Tech J 10:84-6 F '24

See also Petroleum industry and trade—Canada

Colombia

Strenuous work of putting pipe line into Colombia is moving rapidly. L. E. Smith. il map Nat Pet N 17:28-30+ Ag 26 '25

Tropical oil firmly rooted in Colombia; chief task now field development. L. E. Smith. il Nat Pet N 17:35-7+ S 2 '25

When the world needs Colombia's oil, she has big store to contribute. M. A. Spellacy. il Nat Pet N 17:55+ My 6 '25

Colorado

Colorado campaign extending to all sections of the state. Nat Pet N 16:43+ Jl 23 '24

Colorado will not equal Wyoming in production. C. H. Wegemann. Nat Pet N 16:74+ Jl 2 '24

Colorado's wildcatting history fails to discount state's importance. T. R. Ingram. map Nat Pet N 16:89-90+ Mr 12 '24

Completion on Iles dome may add new field to northwest Colorado. il Nat Pet N 16:49-50 S 10 '24

Geology and oil and gas prospects of part of Moffat county, Colorado, and Southern Sweetwater county, Wyoming. J. D. Sears. diags U S Geol S Bul 751—G: 269-319, pl 35-7 '24

Geology and wildcatting in Colorado develop interesting data. Nat Pet N 16:42-4 Jl 2 '24

Iles dome is still in the picture, but still quite a puzzle. Nat Pet N 16:41-2 D 24 '24

Important Colorado wildcat abandoned; second producer at Craig. Nat Pet N 17:41-2 Ja 14 '25

Larimer county, Colo. test holds most promise at this time. map Nat Pet N 16:55-6 N 12 '24

More geology of Colorado. Pet Age 14:48 D 15 '24

Oil resurrection of Colorado. H. A. Wheeler. Eng & Min J 119:51-4 Ja 10 '25

Our future oil—Colorado. A. J. Hazlett. Pet Age 15:47+ F 15 '25

Structures point to oil. map Pet Age 14:18+ N 1 '24

What kind of oil country Colorado is. Nat Pet N 16:87+ My 28 '24

See also Oil shales—Colorado; Petroleum industry and trade—Colorado

Cuba

See signs of oil in Cuba. A. Wright, jr. and P. W. K. Sweet. Pet Age 14:64-5+ O 15 '24

Czechoslovakia

Pétroles de Tchécoslovaquie. M. I. Chorkavies and D. Prunet. Chimie & Ind 11:260 F '24

Ecuador

Small producing and refining industry in Ecuador confined to coast area. J. H. Sinclair. il Nat Pet N 16:99+ Ap 16 '24

See also Petroleum industry and trade—Ecuador

France

La découverte d'un gisement pétrolifère à Gabian (Hérault). L: Barrabé and P. Viennot. Génie Civil 85:530 D 6 '24

Le pétrole en France. M. Lecomte-Denis. 166p [bibliog. 161-4] Dunod, Paris '24

Les recherches de pétrole en France et le sondage jaillissant de Gabian (Hérault). R. Brunschweig. il maps Génie Civil 85:567-71 D 20 '24

Recovery of oil by shafts and galleries in France and Germany. C: Camsell and A. Buisson. Nat Pet N 16:99+ My 21 '24

Reports on the progress of naphthology during 1924. J. A. Lautier. Inst Pet Tech J 11:403-7 Ag '25

See also Petroleum industry and trade—France

Germany

Recovery of oil by shafts and galleries in France and Germany. C: Camsell and A. Buisson. Nat Pet N 16:99+ My 21 '24

See also Petroleum industry and trade—Germany

Great Britain

Crude oils of the empire. A. E. Dunstan and J. Kewley. Inst Pet Tech J 10:486-521; Discussion. 522-6 Jl '24

Fuel. G: W: Andrew. 208p E. Benn, ltd., London, Van Nostrand, N.Y. '24

PETROLEUM—Great Britain—*Continued*
Oil production in its relation to the resources of the British Empire. G: Beilby. Gas J (Lond) 167:641-2 Ag 20 '24

See also Oil shales—Great Britain; Petroleum industry and trade—Great Britain

Idaho

Geology and oil, possibilities of Bingham, Bonneville, and Caribou counties, Idaho. V. R. D. Kirkham. 108p Univ. of Idaho, Moscow '24
Possibilities of petroleum in Power and Oneida counties, Idaho. A. M. Piper. Idaho Bur Mines and Geol 12:1-24 [bibliog. p. 22-4] '24

Illinois

Further consideration of prospects for oil in the Decatur area. D. M. Collingwood. 44p Illinois geol. survey, Urbana '24

India

Aromatic hydrocarbons in Burmah petroleums. H. M. Mulany and E. R. Watson. Soc Chem Ind J 43:310-13 O 17 '24
Crude oils of Burmah and Assam. W. J. Wilson. il diags Inst Pet Tech J 10:227-41; Discussion. 242-55 Je '24
Oil regions: Assam, Burma, the Punjab. Inst Pet Tech J (Abstracts) 10:387-9 D '24
Suggested origin of the oil-bearing strata of Burmah, deduced from the geological history of the country during tertiary times. M. Stuart. Inst Pet Tech J 11:296-304 Je '25

Indiana

Conditions and possibilities of the Hotmire oil field of Indiana. W. N. Logan. map Nat Pet N 16:56+ F 20 '24
Geological conditions in the oil fields of southwestern Indiana. W: N. Logan. Indiana Dept of Conservation Pub 42:1-125 '24
New owner works old shallow field in Jasper county, Indiana, to make it pay again. W. K. Halbert. Nat Pet N 15:51+ N 28 '23

See also Oil shales—Indiana

Iraq

Story of oil in Mesopotamia and Persia. A. C. Laut. il map Forbes 13:566-8+ F 16 '24

Japan

Geology of the oil fields in Japan. G. Kobayashi. Econ Geol 20:67-82 Ja '25
Petroleum in Japan. A. T. Coumbe, jr. map U S Bur For & Dom Com Trade Information Bul 245:1-27 '24
Petroleum supply of Japan. A. H. Redfield. map Eng & Min J 120:325-33, 369-75, 410-19 [bibliog. p. 417-19] Ag 29-S 12 '25

See also Petroleum industry and trade—Japan

Kansas

Few signs in western Kansas. R. C. Moore. map Pet Age 16:37-9 O 1; 40+ O 15 '25
No waste in Rainbow Bend. map Pet Age 16: 38+ N 1 '25
Rainbow Bend field of Kansas holds promise of high acre recovery. D. R. Snow and D. P. Dean. maps Nat Pet N 17:33-4+ My 6 '25
Russell county getting thorough test; four wells in, 22 drilling. A. F. Hinton. il Nat Pet N 16:17-20 Jl 30 '24
221 dusters and then oil. R. H. Richards. il map Pet Age 14:44-6+ D 1 '24
Western Kansas fresh lure. R. H. Richards. Pet Age 14:21+ Ag 1 '24
What of the future? oil possibilities of Kansas. P. Wagner. Nat Pet N 16:84-6 N 26; 55+ D 3 '24

See also Petroleum industry and trade—Kansas

Kentucky

Relation between isocarbs and oil and gas production in Kentucky. W: L. Russell. diag map Econ Geol 20:249-60 My '25

Louisiana

Cotton Valley area of north Louisiana. map Nat Pet N 16:45-6 F 20; 39-41 My 28; 41 Jl 23; 47 S 3; 47 N 5; 57 N 12 '24
Exploratory areas in north Louisiana give promise for 1924. P. Wagner. map Nat Pet N 15:73-4 N 28 '23
Gas showings point way to Arkansas and Louisiana development. P. Wagner. Nat Pet N 17:44-5 S 16; 128c+ S 30; 34 O 7; 48+ N 4 '25
History of Cotton Valley. il Pet Age 14:47+ N 1 '25
Newcomers active in salt dome fields; history and source of oil. P. Wagner. Nat Pet N 16:85-6+ Ap 2 '24
Trips of geologists to saline domes emphasize future possibilities. Nat Pet N 16:97+ Ap 9 '24
Urania, La., discovery in area of cretaceous domes. Nat Pet N 17:37 Ap 1 '25
Vacuum co. is lucky; big well brought in at Lake Charles, La. R. E. Leigh. il Pet Age 14:34 O 1 '24

See also Petroleum industry and trade—Louisiana

Madagascar

Madagascar et l'industrie pétrolière. L. Bertrand; A. Guiselin; J. A. Hardel. diag Chimie & Ind 11:783-815, 1003-13, 1014-17 Ap-My '24

Manchuria

Petroleum supply of Japan. A. H. Redfield. Eng & Min J 120:414-15 [bibliog. p, 419] S 12 '25

Mexico

Drilling of Isthmus salt domes renewed. P. Wagner. Nat Pet N 17:33-4 Jl 15 '25
History and geology of the oilfields of Mexico. C. A. Sansom. Inst Pet Tech J 10:306-9; Discussion. 309-10 Je '24
Stratigraphy of the petroliferous area of eastern Mexico. W. A. VerWiebe. Am J Sci 5th ser 8:277-95, 385-94, 481-502 [bibliog. p. 501-2] O-D '24

See also Petroleum industry and trade—Mexico

Mid-continent field

Drill ahead with vigor. P. S. Hedrick. Pet Age 15:37-8 Ap 1 '25
Fresh sources of crude supply insure Mid-continent's future. P. Wagner. Nat Pet N 16:52-3 N 12 '24
Western plains baffling. R. C. Moore. Pet Age 15:42-3 Mr 1 '25

Montana

Artesian control of oil and gas is indicated in Lake Basin field. Nat Pet N 16:45+ Jl 9 '24
Geology and possible oil and gas resources of the faulted area south of the Bearpaw mountains, Montana. F. Reeves. diags map U S Geol S Bul 751—C:71-114, pl 10-14 '24

New Mexico

Drilling operations increase in field near Artesia, New Mexico. P. Wagner. Nat Pet N 17:17-19 My 20 '25
Major companies active in taking acreage near Artesia field. Nat Pet N 17:45 Mr 18 '25
Oil and gas in New Mexico in 1923. R. W. Ellis. 27p New Mexico State univ., Albuquerque '23
West Texas and Artesia fields offset rims of old Permian Basin. P. Wagner. Nat Pet N 17:42-3 Jl 15 '25
World's highest grade crude oil is produced in quantity on Rattlesnake dome, New Mexico. il Nat Pet N 17:83 My 27 '25

New Zealand

Oil field of Taranaki province, New Zealand. F: G. Clapp. il Nat Pet N 16:40 Mr 5 '24

PETROLEUM—New Zealand—*Continued*
Petroliferous areas of New Zealand. P. G. Morgan. map Eng & Min J 119:207-8 Ja 31 '25

Ohio

Clinton sandstone in Ohio. J. R. Lockett. Nat Pet N 16:73+ O 29 '24
Drilling for Trenton production in central Ohio moves slowly. L. E. Smith. Nat Pet N 16:97 N 26 '24

Oklahoma

Core drilling to augment new pools in central north Oklahoma. P. Wagner. Nat Pet N 16:75+ D 24 '24
Cromwell pool is Seminole county's latest important field. A. F. Hinton. map Nat Pet N 16:17-18+ Mr 26 '24
Deep sand at Garber may be important find of year in Oklahoma. A. F. Hinton. Nat Pet N 17:41-3 Ap 8 '25
Failures narrow prospective area in South Vernon development. P. Wagner. Nat Pet N 16:65-7 D 10 '24
Garber well is in the Wilcox sand; eleven wells starting up. A. F. Hinton. map Nat Pet N 17:44-6 Ap 15 '25
Geology of Sayre field, Oklahoma. R. A. Birk. Pet Age 14:65-6 Ag 1 '24
Geology of the Bristow quadrangle, Creek county, Oklahoma, with reference to petroleum and natural gas. A. E. Fath. maps U S Geol S Bul 759:1-63, pl 1-13 '25
Graham field, with seven sands, has many interesting features. A. F. Hinton. map Nat Pet N 16:81+ Mr 12 '24
Importance of engineering work stressed in Graham report. A. F. Hinton. Nat Pet N 16:84+ N 12 '24
New deep sand in Okla. P. S. Hedrick. Pet Age 13:30+ Ap 15 '24
"No man's land" Mid-continent oil still is western Oklahoma. P. Wagner. Nat Pet N 17:32+ Ja 7 '25
Oklahoma due for big slip? P. S. Hedrick. Pet Age 15:38+ Ja 1 '25
Osage Nation, unmeasured reserve, to retain importance in future. P. Wagner. Nat Pet N 16:83+ D 17 '24
Over-production from Wilcox sand pools possible only as number develop at once. P. Wagner. Nat Pet N 16:63+ N 19 '24
Problem of southwestern Oklahoma's oil future still for solution. P. Wagner. Nat Pet N 16:47+ D 31 '24
Progress report on a subsurface study of the Pershing oil and gas field, Osage county, Oklahoma. W. W. Rubey. diags maps U S Geol S Bul 751—B:23-70, pl 7-9 '23
Report on Cromwell field gives much valuable data on development. A. F. Hinton. map Nat Pet N 17:90-1+ Mr 18 '25
Shallow well in southern Oklahoma makes 4,000 barrels. A. F. Hinton. map Nat Pet N 17:27-8 O 28 '25
Thrills from deep sands; old fields of Smackover and Garber. Pet Age 15:47+ Ap 15 '25
Wilcox sand proven in 7 fields in northern Oklahoma and Kansas. Nat Pet N 17:38-9 Je 10 '25

See also Petroleum industry and trade—Oklahoma-Kansas district

Oregon

Petroleum possibilities of western Oregon. W. DuP. Smith. bibliog Econ Geol 19:455-65 Ag '24

Panama

Oil possibilities of Panama. J: F. Sheridan. map Eng & Min J 117:565-7 Ap 5 '24; Discussion. C: E. Herrmann. 117:972 Je 14 '24
Panama attracts petroleum seekers because of ready market at canal. J: F. Sheridan. il Oil Paint & Drug Rep 105:20+ Mr 24 '24

Pennsylvania

Bradford operators study their field by taking cores of sand. L. E. Smith. il Nat Pet N 17:91+ My 27 '25
Oil resources in coal and carbonaceous shales of Pennsylvania. C: R. Fettke. 119p Penn. geol. survey, Harrisburg '23

Persia

Crude oil of Maidan-i-naftun. A. E. Dunstan. il map Inst Pet Tech J 10:51-73; Discussion. 73-82 F '24
Geology and oil measures of south-west Persia. R. K. Richardson. il diags map Inst Pet Tech J 10:256-83; Discussion. 284-96 Je '24
Story of oil in Mesopotamia and Persia. A. C. Laut. il map Forbes 13:566-8+ F 16 '24

See also Petroleum industry and trade—Persia

Peru

Increasing production of petroleum in Peru. Econ W n s 29:154-5 Ja 31 '25

Poland

Poles bid for U.S. help. map Pet Age 16:20+ Ag 1 '25
Polish oilfields, with special reference to the Boryslaw field. T. G. B. Davies. Inst Pet Tech J 11:191-3 Ap '25
Reports on the progress of naphthology during 1924. A. Millar. Inst Pet Tech J 11: 400-2 Ag '25

Rocky Mountain region

Colorado campaign extending to all sections of the state. Nat Pet N 16:43+ Jl 23 '24
Comprehensive testing of deep sands in Salt Creek is planned. Nat Pet N 16:41-3 Jl 16 '24
Engineers discuss Rocky Mountain operations at Casper meeting. A. J. Hazlett. Nat Pet N 17:43-4 S 2 '25
New Rocky Mountain territory offers large possibilities for future. Nat Pet N 16:53+ Ag 27 '24
Rocky Mountain area. M. P. Wear. il Pet Age 13:62-3 Ap 1; 38+ My 15; 14:22 S 15; 30 O 1 '24
Test on Moffat dome brightens prospect for important production. Nat Pet N 16:41-2+ D 10 '24

See also Oil shales—Rocky Mountain region; Petroleum industry and trade—Rocky Mountain region

Rumania

Introduction to the tectonics of the Rumanian oilfields. G. C. Flower. il Inst Pet Tech J 11:61-75 F '25
Rumanian oilfields. J. H. Blakiston. diags Inst Pet Tech J 10:775-86 N '24

Russia

Baku field production. S. A. Hamilonoff. Nat Pet N 16:78-9+ Jl 23 '24
Russia, production and drilling. Inst Pet Tech J (Abstracts) 10:386-7 D '24
La situation pétrolifère actuelle à Bakou. Aldebert. map Soc Ing Civils Bul 77:87-112, pl 63 Ja '24

See also Petroleum—Sakhalin; Petroleum industry and trade—Russia

Sakhalin

Breaking Sinclair's claim to Sahalin means oil supply for Japan. L. E. Smith. map Nat Pet N 17:32+ Mr 25 '25
Oil basis of future wars. L: Fischer. Pet Age 14:70+ N 1 '24
Petroleum in North Saghalien. H. Nishihara. map Eng & Min J 119:449-50 Mr 14 '25
Petroleum supply of Japan. A. H. Redfield. Eng & Min J 120:412-14 [bibliog. p. 418-19] S 12 '25

Spain

Expect oil soon in Spain. il Pet Age 15:42+ F 15 '25

Texas

Big Lake forerunner of other fields; crude high in refinery yields. P. Wagner. Nat Pet N 16:29-32 Ag 27; 50+ S 3 '24

PETROLEUM—Texas—*Continued*
Broad, open places of southwest Texas cattle country tested for oil. P. Wagner. Nat Pet N 16:81+ Ap 2 '24
Deeper oil below shale break adds 40,000 barrels at Powell. P. Wagner. Nat Pet N 16: 20-1 Mr 12 '24
Discovery well and acreage sold to Humble-Marland companies. P. Wagner. Nat Pet N 17:25-6 Je 17 '25
Drilling in Archer county attractive to large and small operators. L. E. Smith. Nat Pet N 16:58+ Jl 16 '24
Examination and correlation of field samples in Gulf coast. G: M. Bevier. Nat Pet N 16: 85-6 Mr 26 '24
Geo-physical methods of finding domes widen Gulf coast possibilities. P. Wagner. Nat Pet N 17:91+ Jl 8 '25
Gulf salt domes still rise. R. Thacker. Pet Age 13:22+ F 1 '24
Luling field conditions approximate Mexico on smaller scale. P. Wagner. Nat Pet N 16: 77+ Ap 2 '24
Magnolia opens new west Texas field with Mitchell county well. P. Wagner. Nat Pet N 17:25-6 Ag 26 '25
Negroes commercialize kerosene found in water wells at Tyler. P. Wagner. il Nat Pet N 17:35-8 Jl 8 '25
Newcomers active in salt dome fields; history and source of oil. P. Wagner. Nat Pet N 16:85-6+ Ap 2 '24
Pipeline all Reagan needs. R. H. Richards. Pet Age 14:22+ Ag 15 '24
Report on the oil and gas possibilities of the University block 46 in Culberson county. J. W: Beede. maps Texas U Bul 2346:1-16 '23
Slick discovers another Tonkawa sand; operators to limit drilling. A. F. Hinton. map Nat Pet N 16:36-8 Ap 16 '24
South Dayton salt dome makes oil after 20 years. P. Wagner. Nat Pet N 17:40 Ja 7 '25
Sterling county gets deep test in area of shallow oil. P. Wagner. Nat Pet N 17:28 O 28 '25
Structural and stratigraphic data of northeast Texas petroleum area. F. J. Fohs and H. M. Robinson. map Econ Geol 18:709-31, pl 12-14 [bibliog. p. 728-31] D '23; Discussion. F. H. Lahee. 19:563-5 S '24
Test near Kosse revives interest in area widely tested in 1922. P. Wagner. Nat Pet N 17: 21 F 11 '25
Texas pools. P. Wagner. Nat Pet N 17:45+ Ja 21; 43-4+ Ja 28; 70+ F 11; 101+ F 18; 75+ F 25; 99+ Mr 11; 71+ Mr 25; 85-6 Ap 8; 66+ My 6; 199+ My 13; 68+ My 20; 79+ Je 3; 107 Je 10; 64+ Je 17 '25
Texas salt domes yield 45 per cent of state's oil recovery. P. Wagner. Nat Pet N 16:49-50 F 13 '24
Trips of geologists to saline domes emphasize future possibilities. Nat Pet N 16:97+ Ap 9 '24
25-year vision rewarded; South Liberty Texas, now has oil pool. F. Ennist. map Pet Age 15:25+ Mr 1 '25
Upton county well foreshadows third field in Big Lake territory. P. Wagner. map Nat Pet N 17:45-6 O 7 '25
Wortham has 'em guessing. P. S. Hedrick. Pet Age 14:37-8 D 15 '24

See also Petroleum industry and trade—Texas

Trinidad

Reports on the progress of naphthology during 1924. A. P. Catherall. il Inst Pet Tech J 11:407-11 Ag '25

United States

American petroleum supply and demand; a report to the board of directors of the American institute. 269p McGraw-Hill '25
Crude petroleum production in 1924. Min Cong J 11:496 O '25
Petroleum and prosperity. F. W. Parsons. 25p Publishers printing co., New York '24
Petroleum in the United States. D. Hager. il Eng & Min J 117:636-9 Ap 19 '24

See also Federal oil conservation board; Oil shales—United States; Petroleum industry and trade—United States; Petroleum laws and regulations—United States

Utah

Grand county, Utah, test shows oil in promising quantity. il Nat Pet N 16:51-2 S 10 '24

See also Oil shales—Utah

Venezuela

Venezuelan oil handbook. M. O'Shaughnessy. 32p Potter & co., 5 Nassau st., New York '24

See also Petroleum industry and trade—Venezuela

Wyoming

Black oil is more prominent as light oil fields decline. J. M. Douglas and R. D. Hawley. Nat Pet N 16:32 D 10 '24
Oil and gas fields of the Lost Soldier-Ferris district, Wyoming. A. E. Fath and G. F. Moulton. maps U S Geol S Bul 756:1-57, pl 1-8 '24
Other pools in Wyoming. Pet Age 15:37-8 Ja 1 '25
Probable origin of light oils in the Rocky Mountain region. W. H. Geis. map Nat Pet N 16:71-2+ Ja 30 '24
Resumé of Wyoming operations; late drilling disappointing. L. E. Smith. Nat Pet N 17: 75-6 Ap 22 '25
Teapot Dome; some physical facts in the naval oil reserve problem. il Sci Am 130:224-5 Ap '24

See also Oil reserves (United States navy); Oil shales—Wyoming

PETROLEUM ash
Petroleum ash. W. H. Thomas. bibliog Inst Pet Tech J 10:216-20 Ap '24

PETROLEUM distillation
A B C's of cracking crude. T. A. Boyd. Pet Age 15:25+ My 15 '25
Automatic temperature control in fractionating towers. W. C. Begeebing. diags Nat Pet N 16:67+ S 3 '24
Continuous distillation of petroleum. A. M. O'Brien. Chem Age (Lond) 12:429-30 My 2 '25
Cracking. R. Pitkethly and A. E. Dunstan. Inst Pet Tech J 10:631-40 S '24; Abstracts. Chem Age (Lond) 11:375 O 11 '24; Engineering 118:523-4 O 10 '24
La crise des carburants et les remèdes proposés. A. Travers. diags Chimie & Ind 13: 373-82 Mr '25
Deepwater oil refineries, inc. install vacuum process. il Nat Pet N 16:25 Jl 16 '24
Developing modern equipment for cracking petroleum. R. H. Brownlee. il diags Chem & Met Eng 31:812-17 N 24 '24
Development of a standard Canadian laboratory distillation method for examination of oil shale. R. E. Gilmore and A. A. Swinnerton. diags Can Chem & Met 9:215-17, 235-9 O-N '25
Distribution of sulfur in the fractions derived from crude petroleum. A. P. Bjerregaard. Ind & Eng Chem 17:142-4 F '25
Effect of thermometric lag in Engler distillation. W. R. Ormandy and E. C. Craven. diags Inst Pet Tech J 10:342-55 Je '24
Facts and fakes among cracking processes. R. H. Brownlee. il Chem & Met Eng 31:737-41 N 10 '24
Ferrous selenide as a contact catalyst for cracking. T. Midgley, jr. and C. A. Hochwalt. Ind & Eng Chem 16:365-6 Ap '24
Fractional distillation for the separation of the constituents of petroleum. W. A. Peters, jr. diag Ind & Eng Chem 16:1126-30 N '24
Frank A. Howard patents method of distilling crude oil underground in worn-out fields. diags Nat Pet N 16:97-8 F 27 '24

PETROLEUM distillation—*Continued*
Gas formation in the cracking process. G. Egloff and J. C. Morrell. Ind & Eng Chem 17:32-3 Ja '25; Same. Pet Age 16:55-6 Ag 15 '25
History of refining towers. W. A. Peters, jr. Pet Age 15:65-7 My 1 '25
Home made distillate treating plant cuts losses and fire hazard. P. Truesdell. il Nat Pet N 17:59-60+ Ja 14 '25
How a refinery was built to operate on poor crude and make money. P. Truesdell. il Nat Pet N 17:58-60+ Mr 25 '25
Installation de cracking, suivant le procédé Cross, de la Medway oil and storage co. (Isle of Grain) (Kent, Angleterre). il diags plan Génie Civil 86:600-5 Je 20 '25
Lubricant and asphaltic hydrocarbons in petroleum. C: F. Mabery. Ind & Eng Chem 15:1233-8 D '23; Same. Inst Pet Tech J 9: 427-39 D '23
Manufacture of gasoline by the cracking of heavier oils. C. M. Johnson. Mech Eng 46: 879-85 D '24
Modern oil-cracking methods. H. L. Debar. Mech Eng 47:11-12 Ja '25
Operating a modern cracking plant; Dubbs oil-cracking process. J. C. Morrell. flow chart il Chem & Met Eng 31:1006-10 D 29 '24
Petroleum cracking processes and future production problems. T. A. Boyd. Ind & Eng Chem 16:1004-6 O '24; Same. Pet Age 14:16-17+ O 15 '24
Production of shale oil by the N-T-U process. G. W. Wallace. il Chem Age (Lond) 12:196-9 F 28 '25
Recent development in the art of cracking. A. E. Dunstan and R. Pitkethly. flow chart il diags Inst Pet Tech J 10:728-57; Discussion. 757-74 N '24
Recovery of gasoline from uncondensed still vapors. D. B. Dow. U S Bur Mines Tech Pa 310:1-53, pl 1-10 '23; Excerpt. Nat Pet N 16:53-4+ F 13 '24
Refinery operations. J. B. Rathbun. Pet Age 15:63 Ap 15 '25
Reports on the progress of naphthology during 1924; cracking. R. Pitkethly and A. E. Dunstan. bibliog Inst Pet Tech J 11:361-9 Ag '25
Reports on the progress of naphthology during 1924; light distillates. S. T. Card. bibliog Inst Pet Tech J 11:329-32 Ag '25
Séparation des mélanges complexes et récupération des liquides volatils. P. C: Lemale. il diags Chimie & Ind 11:657-61 Ap '24
Some new petroleum products. J. H. James. il Am Inst Chem Eng Trans v 14:189-98; Discussion. 198-9 '21-'22
Study of viscosities of fuel oil made from Panuco crude. R. H. Brounlee and W: H. Coburn. Nat Pet N 15:81-2+ N 21 '23; Same, with charts. Inst Pet Tech J 9:440-51 D '23
Two improvements greatly increase Dubbs plant efficiency. P. Truesdell. il plans Nat Pet N 17:55-6+ F 18 '25
Viscosity-temperature curves of fractions of typical American crude oils. F. W. Lane and E. W. Dean. Ind & Eng Chem 16:905-11 S '24
What about the future of the cracking process? R. H. Brownlee. il Chem & Met Eng 31:848-52 D 1 '24

See also Petroleum refining

PETROLEUM engineering
Engineer in relation to the petroleum industry. H. Barringer. Inst Pet Tech J 10:168-82 Ap '24
Fuel engineering. C. M. Young. J Eng Educ 15:690-4 My '25
Petroleum engineering. C. Dalley. il diags plans (supp) Inst Pet Tech J 10:459-76; Discussion. 476-85 Jl '24
Petroleum engineering. R. W: Phelps and F. W. Lake. 574p Gulf pub. co., Houston, Tex. '24
Reports on the progress of naphthology during 1924; oilfield engineering. A. W. Nash. bibliog Inst Pet Tech J 11:395-400 Ag '25
Textbook of petroleum production engineering. L. C. Uren. 657p McGraw-Hill '24

See also Petroleum—Production methods; Petroleum—Pumping; Petroleum—Well boring; Petroleum pipe lines; Petroleum refining

Accidents
Fatalities in the California oil fields. H. C. Miller. U S Bur Mines Rep of Invest 2611: 1-4 Je '24 (typew); Abstract. Econ W n s 27:927 Je 28 '24
Industrial accidents in the California oil fields. H. C. Miller. Safety Eng 48:19-21 Jl '24

Safety devices and measures
Accidents few considering vast volume of petroleum handled. W. R. Boyd, jr. Nat Pet N 16:37-9 O 1 '24
Chart wind directions to place boiler in safest location. J. C. Chatfield. Nat Pet N 17:63 Ap 22 '25
Co-operative enterprise in safety. R. W. Kelly. Am Management R 13:6-7 D '24
Growth of safety work in the California oil fields. L. J. King. Nat Safety N 12:8 Ag '25
Mechanical safety standards in California oil fields. T. W. Osgood. il Nat Safety N 10: 19-20 Ag '24
National council to co-ordinate safety work with Institute's endeavors. R. B. Stafford. Nat Pet N 16:43+ O 8 '24
Oklahoma labor commissioner proposes drastic safety regulations. A. F. Hinton. Nat Pet N 16:39 Je 18 '24
Petroleum safety council of the Mid-continent oil and gas association elects officers. Nat Pet N 17:42 Ja 28 '25
Plan for greater activity in work of Petroleum safety council. Nat Pet N 16:56 D 17 '24
Safeguarding oil workers. R. S. Bonsib. il Safety Eng 47:217-22 My '24
Safety education is favored over mechanical guards. P. Wagner. Nat Pet N 16:32f Jl 2 '24
Safety ideas to be carried direct to individual worker. R. B. Stafford. Nat Pet N 17:31-3 O 7 '25
Safety measures humanitarian besides discounting monetary losses. P. Wagner. il Nat Pet N 16:567+ My 7 '24
Safety picture, "Live and let live," combines romance and thrills. P. Wagner. il Nat Pet N 16:67-8 Ag 6 '24
Safety work of oil industry spreading on Pacific and in Mid-Continent. P. Wagner. il Nat Pet N 16:53-6 Ap 23 '24
Teaching safety to oil field workers. D. J. Wallace. il Nat Safety N 8:29-30 O '23
With the Romeo derrick in Texas. G: E. Wallis. il Nat Safety N 9:5-8 Ap '24

See also Oil tanks—Fire protection; Petroleum refineries—Safety devices and measures

PETROLEUM ether
Petroleum ether as an extraction medium. R. G. Myers. Chem Age 33:71-6 F '25; [cont. in] Chem Rec Age 23:9-10 My 11 '25; [cont. in] Chemicals 23:8-9 Je 8 '25

PETROLEUM geologists
The geologist and the petroleum industry. E. DeGolyer. Am Pet Inst Bul 5:24-7 D 31 '24; Same. Nat Pet N 16:45-6+ D 17 '24

PETROLEUM industry and trade
American institute of mining and metallurgical engineers annual meeting, New York. Oil Paint & Drug Rep 105:19+ F 25 '24
Annual meeting, 5th. of the American petroleum institute, Fort Worth, Texas, Dec. 9-11. Am Pet Inst Bul 5:1-11 D 10 '24
Banking when the town strikes oil. A. F. McCarty. il Burroughs Clearing House 9:5-7+ N '24
The black Golconda. I: F. Marcosson. 369p Harper '24
Change in personal attitude needed as well as advance in science. H. B. Goodrich. Nat Pet N 16:143-4 N 12 '24
Co-operation only remedy for griefs that beset oil industry. B. Williams. Nat Pet N 17:39+ O 21 '25

PETROLEUM industry and trade—*Continued*

Development of the foreign oil policy of the United States. H: C. Morris. Ann Am Acad 116:262-3 N '24

Economics of the oil industry. R. Waley-Cohen. Inst Pet Tech J 10:371-90; Discussion. 391-4 Jl '24

Education and the oil industry. A. J. Byles. Nat Pet N 16:83-4 O 22 '24

Engineers estimate 1925 demand for oil will exceed current production. L. E. Smith. Nat Pet N 17:36-9 F 25 '25

Die entwicklung der erdölfrage seit dem jahre 1911. H. O. Schlawe. Zeit Ver Deutsch Ing 68:429-34, 463-7 My 3-10 '24

Farmer is a partner in and beneficiary of oil. W. C. Platt. Nat Pet N 16:105-6 N 26 '24

Few fundamentals of the petroleum industry. T: A. O'Donnell. Am Pet Inst Bul 4:1-6 D 31 '23

Future supply of heavy oil fuel is assured. H. W. Camp. Nat Pet N 16:26-8+ Mr 5 '24; Same. Pet Age 13:73-4+ Mr 15; 25-6+ Ap 1 '24

Industry should cure self. H. G. James. Pet Age 15:22+ My 15 '25

An industry studies fundamentals. Chem & Met Eng 32:99-100 Ja 19 '25

Keeping sales ahead of production. H: L: Doherty. Am Pet Inst Bul v 4:1-4 N 14 '23

Marketing problems of the refiners. W. C. Platt. Nat Pet N 17:55-6 S 23 '25

Methods in the petroleum industry. Bradstreet's 52:653 O 11 '24

Mineral industry of the British Empire and foreign countries. 296p Gt. Brit. Imperial mineral resources bur., London '24

Need for harmonious industrial relations in marketing petroleum. L. V. Nicholas. Am Pet Inst Bul 4:35-8 D 31 '23; Same. Nat Pet N 15:27-8+ D 12 '23

Needed-program for profits in the producing industry. G: O. Smith. Nat Pet N 16: 52+ O 15 '24

No appalling waste exists in oil industry. L. V. Nicholas. Nat Pet N 17:75-6 Mr 25 '25

Oil and the germs of war. S. Nearing. 32p Nellie S. Nearing, Ridgewood, N.J. '23

Oil industry. Nat City Bank p 16-18 Ja '25

Oil industry is conservatively managed and financed. C: E. Mitchell. Nat Pet N 16:59-60 D 24 '24

Oil trusts & Anglo-American relations. E. H. Davenport and S. R. Cooke. 272p Macmillan '23

Oildom, its treasures and tragedies. O. H. Reinholt. 128p Nat. pub. co., Washington, D.C. '24

Outlook becomes better daily. R. R. Moore. Pet Age 15:25-6 Je 1 '25

Over-production of crude oil; its causes and its effects. W. C. Teagle. Nat Pet N 16:33-6 D 17 '24; Same. Am Pet Inst Bul 5:9-13 D 31 '24; Same abr. Chem Age 33:11-13 Ja '25

Petroleum triangle—the people, the government, the oil industry. A. L. Beaty. Nat Pet N 16:24-9 D 10 '24; Same. Am Pet Inst Bul 5:13-20 D 31 '24

Politics of oil. R. P. Arnot. 94p [bibliog. p. 90-2] Labour pub. co. ltd., London '24

Prospect good for oil exporters during present year. L. V. Stanford. Nat Pet N 16:36-7 Mr 12 '24; Same cond. Pet Age 13:100 Ap 1 '24

Public auction for oil in storage. Pet Age 14:46 Jl 15 '24

Relation of sales to credit department. F. L. Miller. Nat Pet N 17:44-6 Mr 4 '25

Relation of the automobile industry to international problems of oil and rubber. H. T. Collings. Ann Am Acad 116:254-8 N '24

Review of petroleum developments abroad in 1923. Econ W n s 27:153-5 F 2 '24

Review of petroleum industry in 1923 in Europe, Asia and Africa. H: C. Morris. Nat Pet N 16:67-8+ Mr 5 '24

Safety vs. gambling in the petroleum industry. W. F. Davis. Nat Pet N 17:38-9 Mr 25 '25

Sanity now rules industry. Pet Age 16:17-19 Jl 1 '25

Sinclair wars on Standard; big independent is admitted to have edge in soviet Russia and also Persia. L: Fischer. Pet Age 14:12-13+ Ag 15 '24

Struggle for petroleum. S. K. Hornbeck. Ann Am Acad 112:162-71; Discussion. E: Grigg. 171-3 Mr '24

Survey of the crude oil situation. P. F. Nash. Nat Pet N 17:89+ F 4 '25

Symposium on oil problems at American institute of mining and metallurgical engineers 131st meeting. Oil Paint & Drug Rep 107: 20 F 23 '25

Takes up criticisms of Institute report on supply and demand. J. E. Pew. Nat Pet N 17:21-2 O 7 '25

Three sides to oil business. A. S. Beaty. Pet Age 14:16+ D 15 '24

Utilization of petroleum products. H: L. Doherty. Am Pet Inst Bul 4:6-10 D 31 '23

Victory for open-door policy in topsy-turvy oil world. A. C. Laut. il Forbes 13:509-10+, 566-8+, 693-5+ F 2-16, Mr 15 '24

Way to avert overproduction is to produce less crude. W. H. Gray. Nat Pet N 16:21-2 Je 18 '24

We over-estimated needs. W. C. Teagle. Pet Age 14:14-15+ D 15 '24

When the old home town strikes oil. A. F. McCarty. Nation's Business 13:52+ Je '25

World-struggle for oil. P. l'E. de la Tramerye. C. L. Leese, tr. 259p Knopf '24

See also Electricity in petroleum industry; Gas oil; Oil industries; Oil promoters; Petroleum—Prices; Petroleum research; Petroleum storage; Petroleum supply; *also* Burmah oil company; Roxana petroleum corporation; Royal Dutch company

Accounting

Accounting for the petroleum industry. D: F. Morland and R. W. McKee. 285p McGraw-Hill '25

Improved methods of accounting aid management. H: W. Ralph. Nat Pet N 17:61-2+ Ag 5; 72+ Ag 12; 63+ Ag 19; 75+ Ag 26; 84-5+ S 2 '25

Income tax problems in the oil industry. J. J. Cosgrove. Am Pet Inst Bul 5:151-6 D 31 '24

Invested capital—realized appreciation. Am Pet Inst Bul 5:156-63 D 31 '24

Report of committee on suggested plan to be followed in establishing a uniform accounting system for the oil industry. Am Pet Inst Bul 5:145-6 D 31 '24

Standardization of accounting for industry is new proposal. J. C. Chatfield. Nat Pet N 16:29-30 D 17 '24

Uses profit and loss record to show efficiency of tools. L. E. Smith. Nat Pet N 16:32E Ja 30 '24

See also Petroleum refineries—Accounting

Advertising

Getting under the skin of the critical industrial prospect; Tide Water campaign. J. T. Jones. Ptr Ink M 8:90+ Ja '24

How to claim distinction for an everyday product. J: A. Lutz. Ptr Ink 127:129-30+ Ap 24 '24

Institutional, educational advertising of oil as fuel. W. M. Horner. Am Pet Inst Bul 4: 73-6 D 31 '23

Louisiana-Arkansas division tells public of oil industry. Nat Pet N 16:73+ Ja 2 '24

Unified action is theme prevailing at Pennsylvania crude meeting. R. B. Stafford. Nat Pet N 16:45+ Jl 2 '24

Costs

Costs in Rocky Mountain fields and in competitive fields. C. A. Fisher. Nat Pet N 16: 32F+ D 10 '24

Equipment and supplies

Agree on specifications for oil field equipment. P. Wagner. Nat Pet N 16:48 My 21 '24

Barnsdall company has systematic way of handling old casing. A. F. Hinton. il Nat Pet N 17:205+ My 13 '25

PETROLEUM industry and trade—Equipment and supplies—*Continued*
Designing of oil well equipment with safety features. E: Timbs. Nat Pet N 16:61 Ap 23 '24
Drilling contractors find big saving in co-operative machine shop. L. E. Smith. Nat Pet N 17:58+ Je 24 '25
Exhibits at International exposition. Nat Pet N 17:23-30 O 7; 49-64 O 14 '25
Field superintendents assist company in standardizing equipment. L. E. Smith. Nat Pet N 17:90+ Je 24 '25
From banker to expert on fishing job is role of the supply house. H. Markt. il Nat Pet N 17:66-7+ Je 24 '25
Further details of standardization worked out at conference. P. Wagner. Nat Pet N 17:44-7 Je 24 '25
Great saving possible by salvaging junk on leases. Nat Pet N 17:41 F 18 '25
How the petroleum industry is solving its corrosion problems. flow sheet il Chem & Met Eng 31:42-6 Jl 14 '24
Laboratory equipment devised to test drilling tools. P. Wagner. il Nat Pet N 17:43+ Ja 14 '25
Machine shop installations save dollars in oil fields. P. Wagner. il Nat Pet N 16:72 Jl 16 '24
Machines and equipment used in world quest for oil. E. L. D. Seymour. il Dun's Int R 45:42-6 Jl '25
Modern fishing tools almost human as they feed around in dark. A. F. Hinton. il Nat Pet N 17:77-9 O 21 '25
Oil field standardization work big Institute accomplishment. V. B. Guthrie. Nat Pet N 16: 31-2 N 5 '24
Old material usefully employed by East Ohio gas co. L. E. Smith. il Nat Pet N 17:67 Jl 1 '25
Performance—not price, sells to the petroleum industry. il Sales Management 8:673-4+ My 2 '25
Progress report of American petroleum institute committee on rig iron standardization. Nat Pet N 16:104+ N 12 '24
Progress report of American petroleum institute committee on rotary standardization. Nat Pet N 16:101-2+ N 12 '24
Protection of oil and gas field equipment against corrosion. R. Van A. Mills. il diags U S Bur Mines Bul 233:1-127, pl 1-19 '25; Excerpt. Pet Age 16:26-7 Jl 1 '25; Abstract. Metal Ind 23:281 Jl '25
Purchases by companies in California are directed by executives. P. Wagner. Nat Pet N 15:75+ N 21 '23
Reclaimed pipe saves money in oil fields. D. W. Moore. il Iron Tr R 77:306-7 Ag 6 '25
Reports of standardization committees on oil field drilling and storage equipment. Am Pet Inst Bul 6:1-112 S 4 '25
Rig iron standardization accomplished. A. F. Hinton. Nat Pet N 16:21-2 D 10 '24
Right tool treating thrifty. C. B. Kennedye. Pet Age 14:72 Jl 1 '24
Rotary standardization and wire rope details. P. Wagner. Nat Pet N 16:20 D 10 '24
Salvage of used material profitable; but first buy a welding outfit. A. F. Hinton. il Nat Pet N 17:43-4 Ap 29 '25
Standardization of field equipment. C. A. Young. Nat Pet N 16:66-7 O 15 '24
Standardization of oil country material. Am Pet Inst Bul 5:1-8 Jl 9 '24
Standardization of oil field equipment; reports of committees. Am Pet Inst Bul 5:35-54 D 31 '24
Standardization, simplification, and improvement of oil drilling methods and equipment. Am Pet Inst Bul 4:89-119 D 31 '23; Abstract. Nat Pet N 15:33K-O D 19 '23
Steel and the petroleum industry. F. B. Foley. il Am Pet Inst Bul 4:97-100 D 31 '23; Abstract. Iron Age 113:512-13 F 14 '24
Steel for oil fields made by the Oklahoma steel casting co. D. W. Moore. il Foundry 52:906-7 N 15 '24
Suggestions for the standardization of rotary drilling equipment. J. F. Lucey. Nat Pet N 15:32 N 21 '23
Temperature control system for dressing and tempering fishtail bits. C: H. Shapiro. diag plan U S Bur Mines Rep of Invest 2712:1-18 O '25
Tool dressing in centralized shops gets maximum efficiency. P. Wagner. Nat Pet N 17: 67 O 28 '25
Uses profit and loss record to show efficiency of tools. L. E. Smith. Nat Pet N 16:32E Ja 30 '24
Wide range of equipment for better operating is offered producer. Nat Pet N 17:90+ S 30 '25

See also Petroleum refineries—Equipment; Sucker rods

Exhibitions

Exhibits at International exposition. Nat Pet N 17:23-30 O 7; 49-64 O 14 '25
International petroleum exposition grounds look like boom town. J. C. Chatfield. il Nat Pet N 16:37-8 S 24 '24
Oil industry at the International petroleum exposition. Nat Pet N 16:41 O 15 '24
Petroleum exposition holds much of value for every oil man. W. G. Skelly. Nat Pet N 17: 50-1 S 30 '25
Taps for 1924 oil show; International petroleum exposition. H. Graffis. Pet Age 14:11-12 O 15 '24
Ten million dollar display of equipment rewards visitors to second International petroleum exposition. L. E. Smith. Nat Pet N 16:17-18 O 8 '24

Finance

Hazards of finding and producing crude oil. E. W. Marland. Am Pet Inst Bul 4:43-8 D 31 '23; Same cond. Nat Pet N 15:33B-D D 19 '23; Excerpt. Pet Age 13:14-15 Ja 1 '24
Industrial and oil securities. Published in weekly numbers of Oil paint and drug reporter
Oil refining stocks. Moody's Inv Serv 17:325-8, 331 O 1-8 '25
Oil stocks and finances. Published in weekly numbers of National petroleum news
Opportunities for investors. R. V. Sykes. Forbes 15:248-9 N 15 '24
Petroleum industry. Moody's Inv Serv 17:65-8 F 19 '25
Petroleum stocks. Moody's Inv Serv 17:178 My 28 '25
Producing industry operating at a deficit for last two and half years. Nat Pet N 16:25-6 Jl 30 '24
Roumanian oil companies' finance. Economist 99:1059 D 27 '24
Union of California puts millions back into marketing property. Nat Pet N 16:32a-b Mr 5 '24
Use and abuse of credit in the oil industry. J. W. Hallman. Nat Pet N 16:29-31 N 19 '24
Who makes the profits from oil production? A. S. McLaughlin. Min Cong J 10:561-2+ D '24

History

Backward look over the early days of the oil industry. J. B. Garner. Nat Pet N 16: 70-1+ N 5 '24

Public relations

In oil industry's defense. D. E. Buchanan. Pet Age 13:17-18 My 1 '24
Industrial policies and public confidence. A. C. Bedford. Am Pet Inst Bul 4:55-60 D 31 '23; Excerpts. Nat Pet N 15:19-20+ D 19 '23
Industry's campaign of education endorsed by American petroleum institute. Nat Pet N 16:21-2 D 17 '24
Man to man in oil game. H. R. Straight. Pet Age 14:13+ S 1 '24
Problems of the petroleum industry. C. F. Kettering. Am Pet Inst Bul 4:48-51 D 31 '23; Excerpt. Nat Pet N 15:21 D 19 '23
Tell public truth by word of mouth. R. S. Binkerd. Nat Pet N 16:51 N 26 '24
Who are the friends of the people? B. Barton. Am Pet Inst Bul 5:9-11 D 10 '24

PETROLEUM industry and trade—*Continued*

Regulation

Oil industry and the competitive system; a study in waste. G: W. Stocking. 323p Houghton '25

Urges government regulate drilling and producing of oil. H: L. Doherty. Nat Pet N 16:48+ N 26 '24

See also Petroleum laws and regulations

Statistics

Billion barrels production in 1923 unlikely to be reached this year. E. DeGolyer. Nat Pet N 16:36-8+ F 27 '24

Crude petroleum, 1921-1924. Survey of Cur Business 31:50-1 Mr '24

Government methods of compiling oil statistics need revision. Nat Pet N 17:17-19 F 18 '25

Oil industry in 1924. Economist 100:sup35-6 F 14 '25

Outlook for the world's petroleum production in 1925. V. R. Garfias. Econ W n s 30:544-5 O 17 '25; Excerpts. Pet Age 16:42 O 15 '25; Soc Auto Eng J 17:458 N '25

Petroleum. Survey of Cur Business 30:84-5 F '24 [continued quarterly]

Petroleum consumption and output of world in 1923. Oil Paint & Drug Rep 106:20 O 27 '24

Petroleum in 1922. G. B. Richardson. maps U S Geol S Min Res of U S 1922, pt 2:359-438, pl 1-2 '24

Petroleum output of U.S. in 1924 fell 18,467,000 barrels from 1923 production. Oil Paint & Drug Rep 108:22 S 7 '25

Revised petroleum statistics January-April, 1924. Am Pet Inst Bul v 5:1-4 Ag 20 '24

Sharp increase in world petroleum production halted this year. V. R. Garfias. Nat Pet N 16:35-6 N 19 '24

Statistical tables relative to petroleum. Am Pet Inst Bul 5:1-15 Ap 7 '24; 6:1-14 Ap 3 '25

Statistics. A. W. Eastlake. Inst Pet Tech J 10:682-6 [bibliog. p. 684-6] S '24

Tabulation relative to crude oil production in United States from August, 1922, to January, 1924, inclusive. Am Pet Inst Bul v 5:1-4 Mr 19 '24 [continued monthly]

Trend of business movements. Published in monthly numbers of Survey of current business

United States geological survey's statistics of world petroleum production in 1923. Econ W n s 28:878 D 20 '24

United States production and consumption of oil. Engineering 118:765 D 5 '24

U.S. releases final figures. Pet Age 16:20-1 S 15 '25

World production of petroleum. Am Pet Inst Bul v 5:1 Mr 7 '24; Same. Chem & Met Eng 30:473 Mr 24 '24

World production of petroleum. Am Pet Inst Bul 6:1-4 Mr 5 '25; Same. Econ W n s 29: 376 Mr 14 '25

World's petroleum production in 1924. V. R. Garfias. Econ W n s 28:727-8 N 22 '24

World's production of oil in 1923 exceeds billion barrels. Nat Pet N 16:24 Ja 2 '24

World's production of crude petroleum. G: Sell. Inst Pet Tech J 11:423-4 Ag '25

Taxation

Oil men of Oklahoma hope to defeat tax measure by proving petition is invalid. Nat Pet N 17:33-4 S 23 '25

System worked out in California for taxing oil lands. W. R. Guiberson. Nat Pet N 17: 83-4 O 14 '25

Arkansas

Arkansas—N. Louisiana. Pet Age 13:34+ Je 1 '24

Nothing in sight in Louisiana-Arkansas unit of industry to cause alarm. Nat Pet N 16: 51+ Ag 13 '24

Smackover district output nears 400,000-barrel figure. Nat Pet N 17:26 My 6 '25

Smackover third zone development now gaining important headway. P. Wagner. Nat Pet N 17:45 Ag 12 '25

Baku

See Petroleum—Russia

California

California. D. M. Folsom. Am Pet Inst Bul 5:27-9 D 31 '24; Excerpts. Nat Pet N 16: 30A-B D 10 '24

California decline of refinable crude to reduce Atlantic shipments. P. Wagner. Nat Pet N 16:22-4 My 7 '24

California has fooled 'em. H. L. Wood. Pet Age 13:40+ My 1 '24

California has its marketing troubles as well as overproduction. P. Wagner. il Nat Pet N 15:83-4 D 5 '23

California holds steady. H. L. Wood. Pet Age 13:30+ Je 1 '24

Petroleum situation as viewed from the Pacific coast. J. V. Lewis. il map Eng & Min J 118:574-7 O 11 '24

Union oil test N.W. of Compton may result in new pool. Nat Pet N 16:41 F 20 '24

When will California reach its peak of oil production? J. Jensen. Eng & Min J 116: 1023-30 D 15 '23

See also Petroleum—California; Union oil company of California

Canada

How Canada has locked the open door to oil. A. C. Laut. il Forbes 13:693-5+ Mr 15 '24

See also Petroleum—Canada

Colorado

Active drilling to Lakota in Salt Creek not looked for at present. Nat Pet N 16:49-51 O 1 '24

Another shock for Colorado; test of Berthoud dome fails. Nat Pet N 16:49-50 N 19 '24

Colorado's effect on oil industry, 1924; fields controlled. P. Wagner. Nat Pet N 16:17-18+ My 21 '24

Northwest Colorado well opens new pool of high gravity oil. map Nat Pet N 16:21-2 Ja 23 '24

Plan more intensive drilling operations for Wellington dome. Nat Pet N 16:48-9 S 3 '24

Routt co. pool to enter producing column when trackage is laid. Nat Pet N 17:39 Ja 28 '25

See also Petroleum—Colorado

Ecuador

Petroleum industry and trade of Peru and Equador. W: W. Dobkin. U S Bur For & Dom Com Trade Information Bul 178: 1-26 '24

France

La politique française du pétrole et des combustibles liquides. L: Pineau. Chimie & Ind 13:669-79 Ap '25; Abstract. Génie Civil 86:483-5 My 16 '25

See also Petroleum laws and regulations—France

Germany

German refineries specialize in making of lubricants. Nat Pet N 16:120 Ap 16 '24

Great Britain

U.S. losing British trade. M. M. Mitchell. Pet Age 13:80+ Mr 1 '24

See also Petroleum—Great Britain; Petroleum—Iraq

Illinois

Illinois jobbers are anxious to begin joint advertising campaign. W. K. Halbert. Nat Pet N 15:43+ D 19 '23

Iraq

Iraq oil agreement. Economist 100:535-6 Mr 21 '25

Mesopotamian oil is given to Turkish co. Oil Paint & Drug Rep 107:19 Mr 23 '25

PETROLEUM industry and trade—Iraq—*Cont.*
Six American companies share in Turkish petroleum co. Nat Pet N 17:169+ My 13 '25

Japan

Japan faces difficulty in getting Caspian oil. Oil Paint & Drug Rep 108:21 S 28 '25
Petroleum industry in Japan. Eng & Min J 117:361 Mr 1 '24
Petroleum supply of Japan. A. H. Redfield. Eng & Min J 120:369-75, 410-19 [bibliog. p. 417-19] S 5-12 '25

See also Petroleum—Japan

Kansas

Another pool in Kansas. Pet Age 16:41 Jl 1 '25
Big interest in Kansas. Pet Age 13:40-1 Je 1 '24
Rainbow Bend may be next major field in mid-continent area. A. F. Hinton. Nat Pet N 16:29-30+ Ag 20 '24

See also Petroleum industry and trade—Oklahoma-Kansas district

Kentucky

Kentucky work slows down. A. W. Williams. Pet Age 14:42 O 15 '24

Louisiana

Arkansas—N. Louisiana. Pet Age 13:34+ Je 1 '24
Half mile northwest extension proves Cotton Valley for oil field. map Nat Pet N 16: 39-41 My 28 '24
Humble's well in Cotton Valley helps along delayed campaign. Nat Pet N 16:57 N 12 '24
Invincible well extends Cotton Valley over mile to southwest. Nat Pet N 16:47 S 3 '24
Nothing in sight in Louisiana-Arkansas unit of industry to cause alarm. Nat Pet N 16: 51+ Ag 13 '24
Second oil well in Lake Charles field makes 1000 barrels. Nat Pet N 17:22 Jl 1 '25
Vacuum's new field in Louisiana ties up closely with refining policy. Nat Pet N 16:57-8 S 24 '24

Mexico

Mexico draws on storage, but oil exceeds 20 million barrels. P. Wagner. Nat Pet N 16: 27+ Jl 16 '24
Mexico slumps in 1924. Pet Age 15:38-9 Mr 1 '25
Mexico's oil exports fall off 45 million barrels in 1923. Nat Pet N 16:50 F 13 '24
Mexico's production off 92,900 barrels since beginning of 1925. P. Wagner. Nat Pet N 17:30-1 Ag 19 '25
Mexico's 6-month report. Pet Age 15:52 Ag 15 '25
Panuco heavy oil region of Mexico tops 300,000 barrels daily. P. Wagner. Nat Pet N 16:67+ Ja 16 '24

New Mexico

Eastern half of New Mexico gets play; San Juan disappointing. P. Wagner. Nat Pet N 16:97+ Je 11 '24

Oklahoma-Kansas district

Cromwell extended half mile north; Okla. output gains 6000 bbls. A. F. Hinton. Nat Pet N 17:57+ Ap 1 '25
Cromwell productive area undefined to northwest and southeast. A. F. Hinton. map Nat Pet N 16:24-5+ Je 25 '24
Ironclad shutdown at Cromwell planned if other fields do likewise. A. F. Hinton. Nat Pet N 18:35-7 Je 18 '24
Major field needed if Oklahoma's output is to be kept up. A. F. Hinton. Nat Pet N 16: 35-7 Ap 30 '24
New discoveries in Oklahoma promise more production by summer. A. F. Hinton. Nat Pet N 17:37-8+ Ap 22 '25
1923 was greatest year for Tonkawa; 27 million barrels produced. A. F. Hinton. Nat Pet N 16:31-2 Ja 23 '24
Oklahoma due for lots of wildcatting in search of new production. A. F. Hinton. Nat Pet N 16:43-4 F 27 '24
Oklahoma free oil less than independent refining capacity. A. F. Hinton. Nat Pet N 15:26+ N 28 '23
Oklahoma industry fully regulated by state commission. A. F. Hinton. Nat Pet N 17: 65-6+ F 11; 69-71 F 18 '25
Oklahoma production. A. F. Hinton. Nat Pet N 16:35-7 Mr 5; 35-7 Jl 9; 38 Jl 16; 41-4 Ag 27; 83+ S 3; 25-6, 43-5 O 22; 49-51, 58 N 12 '24; 17:35-7 Ja 21; 41-2 O 28 '25
Oklahoma production increases slightly; Thomas up to 16,000 barrels. A. F. Hinton. Nat Pet N 17:37 O 7 '25
Oklahoma slows up. Pet Age 13:38+ Je 1 '24
Output of Oklahoma off in December; summary of 1924 production. A. F. Hinton. Nat Pet N 17:41 Ja 21 '25
Petroleum situation as viewed from the Pacific coast. J. V. Lewis. il map Eng & Min J 118:574-7 O 11 '24
Phillips gets Burbank's biggest well; Oklahoma production gains. A. F. Hinton. Nat Pet N 16:43-5 N 19 '24
Prairie follows Sinclair crude cuts and will store half of oil. A. F. Hinton. Nat Pet N 16:35-7 Jl 23 '24
Rapid rise of crude absorbing topic. A. F. Hinton. Nat Pet N 17:35-7 F 4 '25
Second Wilcox sand well at Stroud makes new field probable. A. F. Hinton. Nat Pet N 16:53-5 Ja 2 '24
Shutting down tough job. Pet Age 14:31-2 Jl 1 '24
Tonkawa production passes 100,000 bbls.; other fields decline. A. F. Hinton. Nat Pet N 16: 43-5 S 3 '24
Twin State well at Thomas interesting; Garber wells getting deep. A. F. Hinton. Nat Pet N 17:37+ Jl 1 '25
Water increasing in Garber deep wells; Thomas to be small in area. A. F. Hinton. Nat Pet N 17:35+ S 23 '25
Wewoka field on eve of bigger play; production holds up well. A. F. Hinton. map Nat Pet N 15:17-18+ N 14 '23

See also Petroleum—Oklahoma

Persia

New Jersey Standard tells status of Persian oil concessions. Nat Pet N 16:21-2 F 6 '24

Peru

Petroleum industry and trade of Peru and Equador. W: W. Dobkin. U S Bur For & Dom Com Trade Information Bul 178:1-26 '24

Rocky Mountain region

Big flow from Lakota in Salt Creek proves third sand for field. Nat Pet N 16:59-60 S 24 '24
Colorado scores again; Fort Collins test comes in as oil well. Nat Pet N 16:47-9 Ag 13 '24
Developments in Rocky Mt. district reported from various areas. Nat Pet N 16:39-41 My 14 '24
Extensive drilling campaign certain in Rocky Mountain district. Nat Pet N 16:41-2 Mr 5 '24
Extensive wildcatting continues in Rocky Mountain region. Nat Pet N 16:43+ Je 18 '24
Geologists believe Wellington dome area will be enlarged. il Nat Pet N 16:40-3 Je 4 '24
Gusher well at Salt Creek. M. P. Wear. Pet Age 14:30+ O 1 '24
Lakota sand test in Salt Creek field flowing more than 4500 barrels. Nat Pet N 17:39-40 Ja 14 '25
Prospects brightened for two districts in New Mexico territory. Nat Pet N 16:63-5 O 15 '24
Rocky Mountain area. M. P. Wear. Pet Age 14:22 S 15 '24
Rocky Mountain production declining as drilling slows down. Nat Pet N 16:49-50 N 5 '24
Salt Creek field, now on settled basis, good for large future recovery. L. E. Smith. Nat Pet N 17:21-2 Jl 22 '25

PETROLEUM industry and trade—Rocky Mountain region—*Continued*

Wildcat tests in Rocky Mountain region begin to reach sand depths. Nat Pet N 16: 40-2 Jl 9 '24

See also Petroleum—Rocky Mountain region

Rumania

Restoration of Roumanian oil field was huge task quickly done. E. Lufft. il Nat Pet N 17:60-1+ Jl 29 '25

Rumanian petroleum industry in 1923. C. Leu. Inst Pet Tech J 10:661-70 S '24

See also Petroleum laws and regulations—Rumania

Russia

Capital for the Russian oil industry. Economist 99:528 O 4 '24

Petroleum industry of Russia. W: A. Otis. map U S Bur For & Dom Com Trade Information Bul 263:1-38 '24

South America

Petroleum as a factor in the South American trade of the United States. Econ W n s 28:764-6 N 29 '24

South Dakota

How McMasters of South Dakota got that way. W. C. Platt. Nat Pet N 16:23-5 F 6 '24

South Dakota solons pass a law regulating oil prices. W. K. Halbert. Nat Pet N 17:95-6 Mr 25 '25

Southern states

South producing one-third of world's petroleum. G: R. Hopkins. il Manuf Rec 86:303-7 pt 2 D 11 '24

Texas

Associated completes 39 million cubic foot gasser in Texas. il Nat Pet N 16:38 Jl 2 '24

Big Lake forerunner of other fields; crude high in refinery yields. P. Wagner. Nat Pet N 16:29-32 Ag 27; 50+ S 3 '24

Bunker crowd, after club interests, say they will incorporate. P. Wagner. Nat Pet N 17: 62+ Jl 1 '25

Characteristics of Big Lake pay give hope for consistent yields. P. Wagner. il Nat Pet N 16:31-3 Ag 13 '24

1800-barrel well in Archer co. is event for north Texas. Nat Pet N 16:40+ F 20 '24

Failures narrow prospective area in South Vernon development. P. Wagner. map Nat Pet N 16:75-6+ D 17 '24

Gulf coastal Texas production nearing 100,000 bbls. P. Wagner. Nat Pet N 17:125+ Ap 15 '25

Gusher at Markham. F. S. Willbur. Pet Age 13:32+ Je 1 '24

Luling's 45,000 barrels daily yield handled mainly in tank cars. P. Wagner. Nat Pet N 16:21-2 Je 4 '24

Lytton Springs development profitable despite quick decline of wells. P. Wagner. Nat Pet N 17:106-7 Je 24 '25

Many wildcats in Texas. Pet Age 14:62 O 1 '24

Panhandle costs and operating grief fail to retard development. P. Wagner. Nat Pet N 17:84+ Mr 25 '25

Patterson Lake per well production averages 300 barrels daily. P. Wagner. Nat Pet N 16: 38 Jl 30 '24

Pipe line outlet for Big Lake crude figures in terms for property. P. Wagner. Nat Pet N 16:42+ Ag 20 '24

Pipeline outlets to give Texas panhandle more importance in future. P. Wagner. Nat Pet N 16:83+ My 28 '24

Powell acreage yields over 15,000 bbls. P. Wagner. Nat Pet N 16:72+ Je 11 '24

Prairie contracts 3 million barrels Wortham crude at $1.25. P. Wagner. Nat Pet N 16: 39-40 D 10 '24

Precipitate drop in Wortham's output discounts future effect. P. Wagner. Nat Pet N 17:37-8 Ja 28 '25

Second Wortham well quickens boom activity already under way. P. Wagner. Nat Pet N 16:41-2 D 3 '24

10 wells in Panhandle. Pet Age 13:25+ Je 1 '24

Texas operators tried to hold back Wortham for industry's good. P. Wagner. Nat Pet N 16:33+ N 26 '24

Two million barrels Luling crude sold Magnolia and Atlantic. P. Wagner. Nat Pet N 16: 41-2 Jl 30 '24

University permits in Reagan county, how validated into leaseholds. P. Wagner. Nat Pet N 16:61-2 S 24 '24

Wortham has no parallel! Pet Age 15:37-8 Ja 15 '25

Wortham to reach peak within 12 weeks after its discovery well. P. Wagner. il Nat Pet N 17:25+ Ja 14 '25

Wortham transformed by drilling rush and tankage construction. P. Wagner. map Nat Pet N 16:24-5+ D 24 '24

See also Petroleum—Texas

United States

Better business in petroleum industry predicted for near future. Automotive Ind 49: 1260-1 D 20 '23

Better tone in oil industry. R. R. Moore. Pet Age 15:19-20 My 15 '25

Board assumes industry guilty without facts. W. C. Platt. Nat Pet N 17:63-4+ Ap 29 '25

Careful study of remedial measures warranted in oil industry. E. Oliver. Nat Pet N 17:79-80+ Je 17 '25

Conservatism will pay good dividends in oil industry this year. H. S. Reavis. Nat Pet N 16:37 Ap 30 '24

Contradictory outlook for oil. G. R. Paul. Annalist 24:604-5 D 8 '24

Cradle of the oil trade. E. Dakin. Comm & Fin 14:760 Ap 22 '25

Crude oil production and prices. Published in weekly numbers of Commercial and financial chronicle

Decrease in petroleum production in the United States in 1924. Econ W n s 29:472-4 Ap 4 '25

Development of the petroleum industry. F: E. Sturdevant. Bankers M 108:861-8 Je '24

Engineers and the American petroleum situation. J. D. Sears. charts Mech Eng 47:5-11 Ja '25; Abstract. Power 60:928 D 9 '24

Exports to aid refiners? Pet Age 14:16-17+ Ag 1 '24

Facing facts in petroleum. C. E. Mitchell. Am Pet Inst Bul 5:5-9 D 31 '24

Federal oil conservation board seeks views from technical press—also data from refiners. Comm & Fin Chr 120:1696-7 Ap 4 '25

Fifty oil companies cited in suit filed by government—extortion plan alleged. Comm & Fin Chr 118:3161-2 Je 28 '24

Final statistics of petroleum production and distribution in the United States in 1924. Econ W n s 30:339 S 5 '25

Gasoline monopoly is charged against forty-nine oil companies in U.S. suit. Oil Paint & Drug Rep 105:19+ Je 30 '24

Guess at oil yields in 1924, relation to consumption and inventories. P. Wagner. Nat Pet N 16:30-1 My 28 '24

How control the oil flood? Comm & Fin 14: 71 Ja 14 '25

Huge overproduction is chief feature of 1923 petroleum business. J. E. Pogue. Automotive Ind 50:169-74 Ja 24 '24

Marketing crude petroleum. L. M. Fanning. Eng & Min J 118:209-13 Ag 9 '24

1923 domestic production and consumption of petroleum and gasoline the largest on record. Comm & Fin Chr 118:256-7 Ja 19 '24

Now is the time to enforce fulfillment of contracts. W. C. Platt. Nat Pet N 16:45-6 Ja 9 '24

Oil industry. Nat City Bank p 10-15 Je '25; Same. Econ W n s 29:872-5 Je 20 '25

Oil industry is fundamentally sound; interview with A. C. Bedford and W. C. Teagle. C. H. Getz. Annalist 22:759-60 D 10 '23

PETROLEUM industry and trade—United States—*Continued*
Oil industry unmasked; disorganized by overproduction, it neglects clamoring markets. H. A. Haring. Annalist 22:819-20+ D 24 '23
Oil interests hopeful for better business. C. H. Pforzheimer. Annalist 25:28 Ja 5 '25
Oil lacks method in madness. H. G. James. Pet Age 14:15-16+ Jl 1 '24
Oil needs no communism. E. W. Marland. Pet Age 13:15-16 Je 1; 14-15 Je 15 '24
On brink of abyss again? H. G. James. Pet Age 13:15+ My 15 '24
Open letter to Governor Bryan. W. C. Platt. Nat Pet N 16:32e-f+ O 8 '24
Output and imports shrink; review of 1924. Pet Age 15:37+ Mr 1 '25
Panacea for oil's ills. H. G. James. il Pet Age 14:11-12+ S 1 '24
Perpetual optimism at fault. H. G. James. Pet Age 13:16-17 Je 15 '24
Petroleum and its products: market review. Oil Paint & Drug Rep 105:74-7 Mr 20 '24; 107:73-7 Mr 26 '25
Petroleum in 1922. G. B. Richardson. U S Geol S Min Res of U S 1922, pt 2:359-438, pl 1-2 '24
Petroleum in 1923. J: D. Northrop. Eng & Min J 117:89 Ja 19 '24
Petroleum in 1924. J: D. Northrop. Eng & Min J 119:88-9 Ja 17 '25
Petroleum production in 1924. Manuf Rec 87:89 F 5 '25
Petroleum situation. Moody's Inv Serv 17:22 Ja 15 '25
Petroleum situation surveyed by M.M.S.A.; production and consumption from 1910 to date. charts Eng & Min J 117:176 Ja 26 '24
Petroleum stocks. Moody's Inv Serv 16:341-2; 17:178 S 11 '24, My 28 '25
Pipe line companies. Moody's Inv Serv 17: 365-8 N 5 '25
Production, consumption and stocks of petroleum in the United States in 1924. Econ W n s 29:195 F 7 '25
Production decline indicated by January 1 about 100,000 barrels daily. P. Wagner. Nat Pet N 16:87 O 15 '24
Proration will bring shutdown where discussion failed. A. F. Hinton. Nat Pet N 16: 36-7 Jl 2 '24
Report on the probable future demand for petroleum in the United States. Nat Pet N 17:31-5 Ag 12 '25
Rift in clouds apparent. H. G. James. Pet Age 14:11-13 S 15 '24
Scouts oil's early demise. J. E. Pew. Pet Age 15:17-18 My 1 '25
Some aspects of the petroleum situation. J: D. Gill. Soc Auto Eng J 16:478-9 My '25
Stability of refining business. Moody's Inv Serv 17:94 Mr 19 '25
Suggest that coal and oil industries unite to eliminate over-production. Power 60:785 N 11 '24
Tabulation relative to crude oil production in United States from August, 1922, to January, 1924, inclusive. Am Pet Inst Bul v 5:1-4 Mr 19 '24 [continued monthly]
Threatened regulation of oil concerns landowner most. E. W. Marland. Nat Pet N 16: 61+ Ap 30 '24
Thus oil's leaders see it. R. R. Moore. il Pet Age 15:15-17 My 1 '25
What is wrong with the industry? Nat Pet N 16:28-9 O 22 '24
What's wrong with oil? A. Stote. Ptr Ink 127: 101-2+ Je 19 '24
When figures lead astray. R. R. Moore. Pet Age 14:13-14 Jl 15 '24
When optimism is an evil. H. G. James. Pet Age 14:11+ Ag 15 '24
Why break economic laws? J. E. Pogue. Pet Age 16:24-5 O 1 '25
Will lower crude prices aid? H. G. James. il Pet Age 14:14-15 Ag 1 '24
Year 1923 in retrospect. H G. James. Pet Age 13:11-13 Ja 1 '24
See also Petroleum—United States; Petroleum laws and regulations—United States; *also* American association of petroleum geologists; American petroleum institute; Cities service company; General petroleum corporation; National petroleum marketers' association; Pacific oil company; Standard oil company

Directories

Complete list of oil men registered at the Oil & gas journal booth during the International petroleum exposition and congress held at Tulsa, Oklahoma, Oct. 2-11, 1924. 213p Petroleum pub. co., Tulsa '24

Venezuela

Venezuela production for 1925 placed at 20 million barrels. L. E. Smith. Nat Pet N 17: 79-80 Ag 19 '25
Venezuela to take important place in world oil production. E. B. Hopkins and H. J. Wasson. il Nat Pet N 17:17-20+ F 25 '25
Venezuelan oil handbook. M. J. O'Shaughnessy. 32p Potter & co., New York '24
Venezuelan operations in 1923 brought several important developments. E. B. Hopkins, C. W. Washburne and H. J. Wasson. Nat Pet N 16:67+ Mr 19 '24

Wyoming

Testing of deep sands in Salt Creek outstanding feature of Wyoming. Nat Pet N 16: 57-8 D 17 '24
Wyoming badly in need of new field as refinery situation shows. L. E. Smith. il Nat Pet N 17:72+ Ap 29 '25

PETROLEUM laws and regulations
Law relating to oil and gas. W: W. Thornton. 4th ed. 2v W. H. Anderson co., Cincinnati '25
Some legal aspects of petroleum. J. B. Kay. Inst Pet Tech J 11:193-9 Ap '25
Suggested plan for operator control. Nat Pet N 17:89+ Je 17 '25

California

Engineering basis of California oil supervision cause of success. R. E. Collom. Nat Pet N 17:58-9 S 2 '25

France

New law gives French government ironclad control of oil. A. E. Heiss. Nat Pet N 17:23+ F 18 '25

Oklahoma

Oklahoma industry fully regulated by state commission. A. F. Hinton. Nat Pet N 17:65-6+ F 11; 69-71 F 18; 67-8 Mr 11 '25

Philippine Islands

Laws and regulations governing petroleum lands. 62p Bureau of printing, Manila '23

Rumania

Drastic law in Roumania. O. McKee. jr. Pet Age 14:14-15 Ag 15 '24
Roumania's new oil law. Oil Paint & Drug Rep 106:19 Ag 4 '24; Nat Pet N 16:18 Jl 16 '24

Texas

Bill to strengthen Texas regulation killed in legislation. P. Wagner. Nat Pet N 17:81-2+ Ap 22 '25

United States

Cases on oil and gas, selected from decisions of American courts. V: H: Kulp, ed. 512p West pub. co., St Paul '24
Manual for oil and gas operations. T. E. Swigart and C. E. Beecher. U S Bur Mines Bul 232:sup1-19 '23

PETROLEUM pipe lines
Acid in soils responsible for pipe protection. P. Wagner. il Nat Pet N 17:76 Je 24 '25
Automatic shut-off valve for oil lines. il Ry Mech Eng 99:312 My '25
Building a small submarine oil pipe tunnel. il diags plans Eng N 92:574-6 Ap 3 '24
Crude oil movement swinging away from trunk line carriers. Nat Pet N 17:29-30+ O 21 '25
Design of oil fuel pipe lines. W. G. Watkins. diags Engineering 118:792-3, 823-5, 853-4 D 12-26 '24

PETROLEUM pipe lines—*Continued*
Early resumption of pipe line shipments East predicted. Nat Pet N 17:31-2 F 11 '25
Evolution in oil line pumping equipment. W: N. Beadle. il Gen Elec R 28:752-6 N '25
Humble building pipe line into Big Lake district. P. Wagner. Nat Pet N 17:17-18 Ja 7 '25
Marketing crude petroleum. L. M. Fanning. Eng & Min J 118:211-12 Ag 9 '24
Oil engines as a drive for pipe lines. F. Thilenius. Mech Eng 47:743 S '25
One pipe 180 miles long. il Sci Am 132:120 F '25
Pipe line companies. Moody's Inv Serv 17: 77-8 Mr 5 '25
Pipe line outlet for Colorado crude through Prairie negotiations. Nat Pet N 16:44-5+ Je 11 '24
Pipe lines. J. B. Rathbun. Pet Age 13:97 Ap 1 '24; 15:61 Mr 1 '25
Problems of pipe line transportation. D. S. Bushnell. Am Pet Inst Bul 4:144-7 D 31 '23
Strenuous work of putting pipe line into Colombia is moving rapidly. L. E. Smith. il map Nat Pet N 17:28-30+ Ag 26 '25
Tankage installation holds all gas from well to pipe line. L. E. Smith. il Nat Pet N 16: 58+ Jl 9 '24

PETROLEUM products
Petroleum refined products in 1923; census of manufactures report. Oil Paint & Drug Rep 107:80 F 9 '25; Nat Pet N 17:74 F 18 '25
Reports on the progress of naphthology during 1923; special products. F. G. P. Remfry. Inst Pet Tech J 10:618-22 S '24
Reports on the progress of naphthology during 1924; special products. F. G. P. Remfry. bibliog Inst Pet Tech J 11:343-5 Ag '25
Specific heat-specific gravity-temperature relations of petroleum oils. W: R. Eckart. Mech Eng 47:535-40 Jl '25

See also Benzine; Gasoline; Kerosene; Paraffin; Petroleum distillation; Petroleum refining

PETROLEUM refineries
A.B.C. of simple refining; how, when and where to build plants. A. L. Nugel. Pet Age 14:22+ N 15 '24
Capacity of refinery increased six-fold without adding more stills. P. Truesdell. il Nat Pet N 17:54-5 N 4 '25
Cold water for refineries. W. F. Besselman. il diag Pet Age 13:28-9 Ap 1 '24
Cracking gives fourth of gasoline output; can be further expanded. Nat Pet N 17:18-19+ Jl 1 '25
Cross oil-cracking plant. diags Engineering 119:247-9, 312-16, 324, pl 15-17, 19 F 27, Mr 13 '25
Detection and elimination of odors from oil refineries. R. S. Weston. il diags maps Am Soc C E Pro 51:854-83 My '25; Discussion. 51:1193-7, 2072 Ag, D '25
Gasoline from still and tank vapors soon pays for recovery plant. B. B. Stroud. diag Nat Pet N 17:38-40 Ap 29 '25
How a refinery was built to operate on poor crude and make money. P. Truesdell. il Nat Pet N 17:75-7+ Mr 11; 58-60+ Mr 25; 80-1+ Ap 1; 69-70+ Ap 8; 92-4 Ap 15; 68-70 Ap 22 '25
Installs two tube and tank cracking units. J. C. Chatfield. il Nat Pet N 16:54 My 21 '24
Invincible builds first lub plant in north Louisiana field. J. C. Chatfield. il Nat Pet N 16:52-4 Je 11 '24
McColl bros. build new refinery at Ashbridge's Bay, Toronto. il Can Eng 48:561 Je 9 '25
National oil refineries limited, Llandarcy, Skewen, South Wales, during 1923. A. M. O'Brien. Inst Pet Tech J 10:650-1 S '24
Petroleum engineering; refinery requirements. C. Dalley. il diags plans (supp) Inst Pet Tech J 10:463-71; Discussion. 476-85 Jl '24
Petroleum refineries and cracking plants. Manuf Rec 88:98 Jl 2 '25
Progress at Agwi petroleum corporation's refinery, Fawley, Hampshire, during 1923. J. M. Sanders. Inst Pet Tech J 10:648-9 S '24
Refiner has to sell public on plant as well as products; Cities service refining co.'s plant at East Braintree, Mass. P. Truesdell. il Nat Pet N 16:32-4 N 19 '24
Wyoming badly in need of new field as refinery situation shows. L. E. Smith. il Nat Pet N 17:72+ Ap 29 '25

Accidents
Severity rates increase in petroleum industry. Nat Safety N 10:41 Jl '24

Accounting
Cost accounting methods for the use of the refiner. R. W. McKee. Nat Pet N 16:37-9 Ja 30 '24
Indian's accounting system makes salesmen think of costs. W. K. Halbert. Nat Pet N 17:62+ S 9 '25
Problems of oil refining and marketing costs. R. D. Matthews. Am Pet Inst Bul 5:164-78 D 31 '24
To work out uniform refinery accounting. Nat Pet N 17:30-1 S 23 '25

Costs
Books of refiners show operating losses on present markets. J. C. Chatfield. Nat Pet N 17:33-4 My 13 '25

Employees
Empire refineries training salesmen with exhaustive courses. J. C. Chatfield. Nat Pet N 16:72+ Mr 12 '24

Equipment
Centralized control of refining operations reduces operating costs. P. Truesdell. il diags Nat Pet N 17:59-60+ My 6 '25
Concrete reclaims worn-out condenser boxes at small expense. J. C. Chatfield. il Nat Pet N 17:55+ Jl 22 '25
Corrosion troubles in an oil refinery and some remedies for them. F. W. L. Tydeman. Nat Pet N 17:40+ Mr 4 '25
Heeding lessons of a refinery fire. P. Truesdell. il Nat Pet N 17:70+ Je 17 '25
How skimming and cracking plant cut fuel cost and increased yield. P. Truesdell. flow chart il Nat Pet N 17:53-6 O 21 '25
How the petroleum industry is solving its corrosion problems. flow sheet il Chem & Met Eng 31:42-6 Jl 14 '24
Ingenuity of refinery superintendents cuts expenses and gets results. P. Truesdell. diags Nat Pet N 17:58-60+ F 25 '25
Insulation of cracking units with tailor-made blocks. H. B. Wentz. il Nat Pet N 17:77-8 Jl 8 '25
Insulation of stills—what makes it long or short lived. L. C. Converse. il diags Nat Pet N 16:137+ Ap 16 '24
New control apparatus for natural gasoline plants and refineries is shown. J. C. Chatfield. Nat Pet N 16:51 O 15 '24
Refiners find welding outfits keep down equipment costs. il Nat Pet N 17:73 Ja 7 '25
Special corrosion problems in oil refining. R. E. Wilson and W. H. Bahlke. diag Ind & Eng Chem 17:355-8 Ap '25; Same. Nat Pet N 17:92+ Je 10; 55-6 Jl 1 '25
Thermal and physical values of still insulation. L. C. Converse. il Nat Pet N 16:87+ Je 11 '24
This skimming plant makes money year in, year out. P. Truesdell. il diag Nat Pet N 17:73-4+ F 4 '25
Using X-rays to detect hidden dangers in plant equipment. H. H. Lester and others. il diag Chem & Met Eng 31:619-22 O 20 '24

Fires and fire protection
Fire prevention work under way in eastern refineries. V. B. Guthrie. Nat Pet N 17:36-7 Ap 29 '25
Heeding lessons of a refinery fire. P. Truesdell. il Nat Pet N 17:70+ Je 17 '25
Lightning protection of agitators; and a doctor treating method. P. Truesdell. il Nat Pet N 17:59-60 Ja 21 '25

PETROLEUM refineries—Fires and fire protection—*Continued*
Ten dollars, plus portable extinguisher protects agitator from fire. P. Truesdell. diags Nat Pet N 17:89+ Ap 29 '25

Management

Centralized control of refining operations reduces operating costs. P. Truesdell. il diags Nat Pet N 17:59-60+ My 6 '25
Conservation in the refinery; abstract. R. G. Lovell. Mech Eng 47:652 Ag '25
Educating firemen cuts coal consumption from 30 cars a month to 14. P. Truesdell. il Nat Pet N 17:179-80+ My 13 '25
This skimming plant makes money year in, year out. P. Truesdell. il Nat Pet N 17: 66-8 Ja 28; 73-4+ F 4 '25

Power

New vacuum oil company plant at Olean, N.Y., illustrates refinery practice. il diags plan Power Pl Eng 28:1082-8 N 1 '24

Safety devices and measures

Operating an oil refinery without lost time accidents. R. S. Bonsib. il Nat Safety N 10:29-31 O '24
Safety work in oil refineries depends upon educating workmen. R. Miller. Nat Pet N 17:40g-h Mr 11 '25; Same cond. Pet Age 15: 71-2+ Mr 15 '25
Why the T in the Texaco emblem is green. G: E. Wallis. il Nat Safety N 11:5-8+ Ja '25

PETROLEUM refineries, Jobbers'
Why independent marketers want refinery. H. F. Brownell. Nat Pet N 17:34-5 N 4 '25

PETROLEUM refineries, Portable
Oil still equipment on railroad cars; portable refinery at Luling, Texas. il Iron Age 113: 1439-40 My 15 '24; Ry R 74:896-8 My 17 '24; Iron Tr R 74:1571-2 Je 12 '24; Chem & Met Eng 30:954-5 Je 16 '24; Pet Age 13:71-2 My 15 '24; Ry Age 77:24 Jl 5 '24
Portable refinery mounted on railroad cars. J. C. Winslow. il Gas Age 53:723-5 My 24 '24
Refining the oil as they go. C. Vinson. il Am Ind 25:23+ D '24
Topping plant built on railway cars now operating in Texas. W. K. Halbert. il Nat Pet N 16:59+ My 21 '24

PETROLEUM refining
Action of petroleum-refining agents on pure organic sulfur compounds dissolved in naphtha. A. E. Wood, A. Lowy and W. F. Faragher. Ind & Eng Chem 16:1116-20 N '24
Adsorption as applied to refining of petroleum products. H. L. Kauffman. Nat Pet N 16:55+ Ap 9; 133-4 Ap 16 '24; Same cond. Chem & Met Eng 30:153-6 Ja 28 '24
Advances made in treating. C. K. Francis. Pet Age 15:62+ My 15 '25
American petroleum refining, by H. S. Bell. Review. Engineering 116:721 D 7 '23
Another cracking process; Gomory converter. Pet Age 13:15 Ja 15 '24
Application of science to oil refining; problems inviting study. J. F. Oakleaf. Nat Pet N 17:83+ O 7 '25; Same cond. Pet Age 16: 40+ O 1 '25
Bauxite as a refining agent for petroleum distillation. A. E. Dunstan, F. B. Thole and F. G. P. Remfry. diag Soc Chem Ind J 43: 179-88 Je 13 '24
La bauxite comme agent de raffinage des produits distillés du pétrole. A. Guiselin. diag Chimie & Ind 12:423-40 S '24; Same. Inst Pet Tech J 10:918-46 D '24
Catalytic treatment of cracked distillates in the vapor phase. T. T. Gray and M. R. Mandelbaum. flow sheet diag Ind & Eng Chem 16:913-16 S '24
Centrifuges save coal at Tiona refinery by reducing distillation. P. Truesdell. Nat Pet N 17:58+ My 20 '25
Chemistry of petroleum; the action of sodium hypochlorite on sulphur compounds of the types found in petroleum distillates. S. F. Birch and W. S. G. P. Norris. Chem Soc J 127:1934-44 S '25
Chemistry of sweetening in the petroleum industry. G. L. Wendt and S. H. Diggs. Ind & Eng Chem 16:1113-15 N '24; Discussion. 17: 101-2 Ja '25
Chemists marching toward solution of urgent refining problems; A.C.S. petroleum division. P. Truesdell. Nat Pet N 16:38-9 S 17 '24
China clay and petroleum. Chem Age (Lond) 10:sup9 Mr 15 '24
Colloids in petroleum and in the petroleum industry. A. E. Dunstan, F. B. Thole and W. H. Thomas. Soc Chem Ind J 44:439-43 Ag 28 '25
Contact filtration likely to become important feature in refining. W. S. Zehrung. Nat Pet N 16:27-8+ Je 4 '24
Cracking gets big boon; Thomas T. Gray invents new catalytic process. diag Pet Age 14:50+ D 15 '24
Decolorization of lubricating oils by the contact method. A. R. Moorman. Nat Pet N 17: 84 Jl 22 '25
Desulphurising of crude oil distillates by means of hypochlorite, after the method of Dunstan and Brooks. H. I. Waterman and J. H. Heimel. Inst Pet Tech J 10:812-15 N '24
Developments in design and operation of topping plants. H. W. Camp. diags Nat Pet N 17:78-80 Mr 18 '25
Economic law in refining division. J. E. Pogue. Nat Pet N 17:133-4 S 30 '25
Les enseignements du dernier congrès de motoculture et des carburants nationaux. A. Guiselin. diags Soc Ing Civils Bul 78:73-151, pl 88 Ja '25
Essentials in refining. A. A. Hendricksen. Pet Age 16:60+ Jl 1 '25
Fuller's earth and its application to the petroleum industry. A. Rauch and G. E. Pain. bibliog Inst Pet Tech J 10:687-93; Discussion. 693-4 S '24
How and why of gasoline. T. A. Boyd. Pet Age 15:22+ My 1 '25
How much is the gasoline refining business overbuilt, and where? H. H. Smith. charts Nat Pet N 16:17-20+ D 31 '24
How skimming and cracking plant cut fuel cost and increased yield. P. Truesdell. il Nat Pet N 17:37-8 O 28 '25
Hypochlorite process. A. E. Dunstan. il Inst Pet Tech J 10:201-15 Ap '24
Independent refiner—his past, present and future. H. G. James. Nat Pet N 16:43-4 Mr 12 '24; Same cond. Pet Age 13:102+ Ap 1 '24
Investigation of toxic gases from Mexican and other high-sulphur petroleums and products. R. R. Sayers and others. il diags U S Bur Mines Bul 231:1-108, pl 1-17 '25
Jenkins process, improved by refiners, makes water white gasoline. P. Truesdell. diag Nat Pet N 17:72-3+ Mr 4 '25
Let past be lesson. G: N. Moore. Pet Age 13: 33+ Mr 15 '24
Making the refinery show a profit by reducing operating costs. P. Truesdell. il Nat Pet N 15:23-5 N 28; 35+ D 5; 35+ D 12; 23-4 D 26 '23; 16:67+ Ap 30; 57+ Jl 2 '24
New era for refiners here. R. Cross. Pet Age 15:14+ Mr 1 '25
New vacuum refining process makes narrow cut lub oils. P. Truesdell. diag Nat Pet N 16:64+ S 10 '24; Abstract. Mech Eng 46: 708-9 N '24
Oil refinery specifications. A. L. Nugey. 210p Chemical pub. co. '24
Operates tube stills on Bradford crude; eliminates re-running. P. Truesdell. il plan Nat Pet N 17:74-5+ My 27 '25
Problems in the refining of cracked distillates. J. C. Morrell. Chem & Met Eng 30:785-7 My 19 '24
Producing wax and lard by mechanical refrigeration. H. J. Macintire. diags plan Chem & Met Eng 31:699-701 N 3 '24
La raffinage des pétroles sur les lieux de consommation. A. Guiselin. Chimie & Ind 11: 788-815 Ap '24
Refiner points out how industry is improving refining efficiency. Nat Pet N 17:73+ Jl 29 '25

PETROLEUM refining—*Continued*

Refinery engineering. J. B. Rathbun. Pet Age 13:69+ Ap 15 '24

Refinery heat losses and insulation-stills and settings. H. S. Bell. Nat Pet N 16:62-4 Mr 26 '23; 16:67+ Ap 30 '24

Refinery operations. Pet Age 15:65+ Ap 1 '25

Refinery runs 500 barrels a day on a site 150 by 240 feet. P. Truesdell. il Nat Pet N 17: 90-2 Jl 15 '25

Refining and recovery of petroleum products with silica gel. E. B. Miller. flow sheet il diags plan Am Inst Chem Eng Trans v 15 pt 1:241-82 '23

Refining and refineries in 1923. J. M. Sanders. Inst Pet Tech J 10:640-8 S '24

Refining features of 1924. S. Born. Pet Age 15:16+ Mr 1 '25

Refining of oil-shale. E. M. Bailey. chart diags Inst Pet Tech J 10:527-53; Discussion. 553-9 Jl '24

Refining of petroleum from the financial viewpoint. W. G. Lackey. Nat Pet N 16:33+ Mr 12 '24

Refining progress in 1923. Pet Age 13:18-19 Mr 15 '24

Refining (treating) of cracked distillates in the vapor phase. T. T. Gray and M. R. Mandelbaum. Nat Pet N 17:102+ Mr 18 '25

Reports on the progress of naphthology during 1924; refining. A. W. Nash. bibliog Inst Pet Tech J 11:378-85 Ag '25

Some properties of china clay in refining petroleum. Chem Age (Lond) 10:sup8 Ap 19 '24

Study of improved methods and processes planned by Eastern refiners. Nat Pet N 16: 33-4 N 5 '24

Technical use of bauxite in connexion with petroleum refining. A. M. O'Brien. Soc Chem Ind J 43:188-9 Je 13 '24

Ten years of progress in petroleum refining. Chem & Met Eng 30:823-4 My 26 '24

Treating of light distillates; some of the methods employed. C. K. Francis. Nat Pet N 17:40+ Mr 11 '25

Ultra-purification of petroleum with china clay. Chem Age (Lond) 11:sup8 Ag 16 '24

U.S. census analyzes refining business by outturn, wages, capital. Nat Pet N 15:41-2+ N 21 '23

Use of measuring instruments in oil refining. H. S. Bell. Nat Pet N 16:39+ Ja 9; 71-2+ F 20 '24

Why sweetening in refining? G. L. Wendt. Pet Age 15:16-17 Ja 1; 48+ Ja 15 '25

See also Gasoline—Manufacture; Gasoline industry; Oil filters; Paraffin; Petroleum—Dehydration; Petroleum distillation

By-products

Higher alcohols from petroleum olefins. W. W. Cough and C. O. Johns. Ind & Eng Chem 15:1030-2 O '23; Same. Pet Age 13:48+ Ja 1 '24

Petroleum as a chemical raw material. B: T. Brooks. Ind & Eng Chem 16:185-9 F '24

Patents

Coke from cracking heavy oil patented by Dubbs engineers. P. Truesdell. Nat Pet N 17:35-6 S 9 '25

Cracking patents are attacked in U.S. conspiracy case. Nat Pet N 17:58 Je 17 '25

Cracking suit involves fifty. Pet Age 14:13-14 Jl 1 '24

Doherty gets patent on radically new refining method. diags Nat Pet N 16:37-8+ Ja 23 '24

Dubbs claims new patent dominates reflux condensation. Nat Pet N 16:60+ Ap 9 '24

Dubbs interests issue statement on patents and warning. Nat Pet N 17:69 Ag 12 '25

Fifty oil companies cited in suit filed by government—extortion plan alleged. Comm & Fin Chr 118:3161-2 Je 28 '24

Formation of cracking patent club explained in court answers. Nat Pet N 16:32-5 O 22 '24

Gasoline monopoly is charged against forty-nine oil companies in U.S. suit. Oil Paint & Drug Rep 105:19+ Je 30 '24

Government sues fifty oil companies charging gasoline monopoly. V. B. Guthrie. Nat Pet N 16:25-6 Jl 2 '24

Here are the claims upon which Dubbs bases patent warning. P. Truesdell. Nat Pet N 17:65+ S 2 '25

Latest oil suit; conspiracy based on patent pooling charged against Standard and independent companies. Index p 3-4 Jl '24

New sulphonic acid from petroleum. diags Chem & Met Eng 29:1108-9 D 17 '23

Patent policy of the Standard oil company. Chem Age 32:45-7, 300 Ja, Jl '24

Patent pooling in restraint of trade. Chem Age 32:418 O '24

Phillips denies novelty of stabilizer in carbide patent suit. J. C. Chatfield. Nat Pet N 17:35 O 21 '25

Standard of Indiana explains big cracking deal. Pet Age 14:15-16 N 1 '24

Standard of New Jersey explains its defense patent system. Nat Pet N 16:83-4 F 20 '24

Statement on Dubbs patent situation. H. J. Halle. Nat Pet N 17:36-8 O 21 '25

Texas co. sues Gulf to recover McAfee aluminum chloride patent. Nat Pet N 17:40 S 30 '25

Texas co.'s statement on cracking patent suit. Nat Pet N 16:37-8 Ag 13 '24

Universal gets new patent. Pet Age 13:70 Mr 15 '24

PETROLEUM research

Chemists recommend research program to develop new oil products. P. Truesdell. Nat Pet N 17:33-4 Ap 15 '25

Fractionation of petroleum during capillary migration. C: W. Cook. diag Econ Geol 20: 639-41 N '25

Need research in refining. R. F. Bacon. Pet Age 13:22-3+ Ja 1 '24

Problems of the petroleum industry. C. F. Kettering. Am Pet Inst Bul 4:48-51 D 31 '23

Reports on the progress of naphthology during 1923. H. Moore and others. diags Inst Pet Tech J 10:607-86 [bibliog. p. 684-6] S '24

Reports on the progress of naphthology during 1924. S. T. Card and others. Inst Pet Tech J 11:329-424 Ag '25

Research on petroleum. H. H. Hill. Am Inst Chem Eng Trans v 15 pt 2:59-64; Discussion. 64-6 '23

Research project launched by Atlantic refining co. Chem & Met Eng 30:445 Mr 17 '24

Researches in geology of finding and recovery of oil. D. White. Nat Pet N 16:85+ O 22 '24

Science ever aids petroleum. W. F. Farragher. Pet Age 15:22-3 Je 15 '25

PETROLEUM storage

Overproduction; its causes and effects. W. C. Teagle. Am Pet Inst Bul 5:9-13 D 31 '24; Same. Nat Pet N 16:33-6 D 17 '24

PETROLEUM supply

Always wrong on forecast; no reason for expected early exhaustion. J. E. Pew. Pet Age 16:23+ O 15 '25

Committee report does not reflect opinion of oil industry. E. Oliver. charts map Nat Pet N 17:39-40d O 28 '25; Excerpts. Pet Age 16: 15-17+ N 1 '25

Criticisms are voiced of report made by committee of eleven. Nat Pet N 17:67 N 4 '25

Does not fear oil shortage. W. S. Farish. Pet Age 15:26-7 Je 1 '25

Engineers and the American petroleum situation. J. D. Sears. charts Mech Eng 47:5-11 Ja '25

Fuel oil resources of the future. A. W. Nash and H. G. Shatwell. Inst Pet Tech J 10: 854-71 D '24

Fuel resources and supplies for road transport. E. J. W. Slade. map Inst Pet Tech J 9:452-68 D '23

Government officials seriously concerned over waste of oil. Power 60:918 D 2 '24

Illusion of an oil shortage. Economist 101: 445-6 S 19 '25

Institute report projects oil industry 25 to 50 years into future. V. B. Guthrie. Nat Pet N 17:25-9 Ag 12 '25

PETROLEUM supply—*Continued*
No signs of oil shortage; abstracts of A.P.I. committee report. Pet Age 16:15-17 Ag 15 '25; Oil Paint & Drug Rep 108:21+ Ag 10 '25; Power 62:265 Ag 18 '25; Am Ind 26:13-14 S '25
Oil reserves. G. E. Roberts. Soc Auto Eng J 17:182 Ag '25
Our future oil reserves—shale is main reliance when production fails. C. A. Fisher. Nat Pet N 17:41-3 Ap 15; 33-5 Ap 22 '25
Our oil and other deposits. Bradstreet's 53:530 Ag 15 '25
Petroleum motor fuel. K. G. Mackenzie. Ind & Eng Chem 17:1105-14 N '25; Abstract. Pet Age 16:22+ N 1 '25
Petroleum resources. H. C. Wolf. il Prof Eng 10:10-11+ Jl '25
Plenty oil yet in world. A. C. Blackall. Pet Age 15:13-14 F 15 '25
Science vs. oil shortage. H. G. James. Pet Age 15:11-12 Mr 15 '25
Upward trend in the price of our oil. A. Addicks. Gas Age 54:181-4 Ag 9 '24

See also Petroleum—Conservation

PETROLEUM workers
Carter forsakes 12-hour tour for three 8-hour shifts. Nat Pet N 17:29 Jl 15 '25
Industrial accidents in the California oil fields. Monthly Labor R 18:622-4 Mr '24

See also Petroleum refineries—Employees

PETTIBONE Mulliken company
Saving space in a steel foundry. il plans Iron Age 116:795-9 S 24 '25

PEWTER
National types of old pewter. H. H. Cotterell. 47p Antiques, inc., Boston '25

PHARMACOLOGY
Recent developments in chemical pharmacology. G. M. Dyson. Chem Age (Lond) 11: 158-60 Ag 16 '24

PHARMACY
Profession of pharmacy. C: H. LaWall. Chem Age 32:331-3 Ag '24

See also Chemistry, Medical and pharmaceutical; Drugs; Pharmacology

Tables, calculations, etc.
Arithmetic of pharmacy. C. M. Snow. 125p C. V. Mosby co., St Louis '25

PHASE advancers
Electrical machine developments. F. Creedy. diags Electrician 93:690-1 D 19 '24; Discussion. 94:36-7 Ja 9 '25
Recent improvements in self-exciting polyphase generators and phase advancers. F. Creedy. diags Electrician 94:748-50 Je 26 '25

PHASE rule
Application of the phase rule to galvanic cells. J. A. Beattie. Am Chem Soc J 46: 2211-23 O '24
Moving boundaries and the phase rule. E. R. Smith. Am Chem Soc J 47:795-7 Mr '25
Phase rule and the study of heterogeneous equilibria. A. C. D: Rivett. 204p Oxford '23
Phase rule study of the cupro-, argento-, auro- and thallo-cyanides of potassium. H: Bassett and A. S. Corbet. Chem Soc J 125: 1660-75 Ag '24

PHASE shifters
Die kommutierung der kollektorphasenschieber. T. Schmitz. diags Elektrotech Zeit 46: 519-21 Ap 9 '25
Die wirtschaftlichkeit des phasenschiebers für den stromabnehmer. H. Vogt. diags Elektrotech Zeit 46:918-22 Je 18 '25

PHASES, Molecular. See Molecules

PHELLANDRENES
Researches on phellandrenes. H: G: Smith, P: G: Carter and J: Read. il Chem Soc J 125: 930-40 Ap '24

PHENANTHRAQUINONE
Dyes derived from phenanthraquinone; anilinoflavindulines and phenanthraquinoneazodyes. A. C. Sircar and D. C. Roy. Chem Soc J 125:543-7 Mr '24; Abstract. Soc Dyers & Col J 40:185-6 Je '24
Reaction between aromatic aldehydes and phenanthraquinone in presence of ammonia. A. C. Sircar and N. C. G. Ray. Chem Soc J 127:1048-9 My '25

PHENANTHRENE
Bromine compounds of phenanthrene. H. Henstock. Chem Soc J 123:3097-9; 125:1296-9 D '23, Je '24
Phenanthrene dyestuffs. K. Brass. Soc Dyers & Col J 40:117-18 Ap '24

PHENOL
Action of aromatic alcohols on aromatic compounds in the presence of aluminum chloride; condensation of benzyl alcohol and phenol. R. C. Huston. Am Chem Soc J 46: 2775-9 D '24
Condensation of carbon tetrachloride and phenol:aurin. M. Gomberg and H. R. Snow. Am Chem Soc J 47:198-211 Ja '25
Condensed ternary system phenol—water—salicylic acid. C: R. Bailey. Chem Soc J 127:1951-65 S '25
Disposing of phenol wastes. R. D. Leitch. Pub Works 56:360-1 O '25
Domestic interests oppose lower duty for phenol and cresylic acid. Chem & Met Eng 30:202 F 4 '24
Influence of a third substance on the critical solution temperature of phenol and water. J: Duckett and W: H. Patterson. J Phys Chem 29:295-303 Mr '25
Influence of certain chemicals on the rate of reproduction of yeast in wort. N. A. Clark. J Phys Chem 28:221-3 Mr '24
Molecular condition of phenol in benzene solution. J. C. Philip and C. H. D. Clark. Chem Soc J 127:1274-7 Je '25
Preparation of picric acid from phenol. F. Olsen and J. C. Goldstein. il Ind & Eng Chem 16:66-71 Ja '24
Production of synthetic camphor gains in France. Chem & Met Eng 32:718 Ag '25; Same. Chem Age (Lond) 13:279 S 12 '25
Recovery of phenol from effluents. diags Gas J (Lond) 170:730-1 Je 10 '25
Studies in nitration; the velocity of nitration of phenol. F. Arnall. Chem Soc J 123:3111-15 D '23
Surface tensions of aqueous phenol solutions; saturated solutions. A. K. Goard and E. K. Rideal. Chem Soc J 127:780-7 Ap '25
Synthesis of phenol; sulfonation in vapor phase. D. H. Killeffer. flow sheet il Ind & Eng Chem 16:1066-70 O '24
Tariff board reports phenol-cresol survey. Oil Paint & Drug Rep 105:19 Ja 21 '24
Vapor composition relationships in the systems phenol—water and phenol—cresol. F. H. Rhodes, J. H. Wells and G. W. Murray. diag Ind & Eng Chem 17:1199-1201 N '25

PHENOL condensation products
Acetylene-aldehyde condensation products. Chem & Met Eng 29:979 N 26 '23
Aging of synthetic resin molded products. E. J. Casselman. Chem & Met Eng 32:682-3 Ag '25
Phenol resins and resinoids. L. H. Baekeland and H. L. Bender. Ind & Eng Chem 17: 225-37 [bibliog. p. 237] Mr '25
Sodium thiosulphate as a catalyst for phenol-formaldehyde condensation products; patent. Chem Age 32:100-1 F '24
Viscosity of syrupy condensation products of phenol and formaldehyde. A. A. Drummond. Soc Chem Ind J 43:323-6 N 7 '24

See also Bakelite

PHENOLDISULFONIC acid
Accurate determination of nitrates in soils; phenoldisulfonic acid method. H. J. Harper. bibliog Ind & Eng Chem 16:180-3 F '24

PHENOLPHTHALEIN
Isophenolphthalein and some of its derivatives. W. R. Orndorff and W. R. Barrett. Am Chem Soc J 46:2483-97 N '24
Potassium salts of phenolphthalein. H: Bassett and D. J. T. Bagnall. Chem Soc J 125: 1366-73 Je '24

PHENOLS
Absorption spectra of some derivatives of phenol and other substances. J: E: Purvis. Chem Soc J 125:406-18 F '24
Alkylation of amines and phenols. Chem Age (Lond) 13:414-15 O 24 '25
Catalytic condensation of acetylene with phenols. H. H. Wenzke and J. A. Nieuwland. Am Chem Soc J 46:177-81 Ja '24
Condensation of diphenylformamidine with phenols; the general nature of the reaction. J: B. Shoesmith and J: Haldane. Chem Soc J 125:2405-7 N '24
Determination of minute amounts of phenols in polluted natural waters. L. R. Vorce. Ind & Eng Chem 17:751 Jl '25
Extraction of phenols from tar oils by the caustic soda process. J. J. Morgan and M. H. Meighan. bibliog Ind & Eng Chem 17: 696-700 Jl '25
Formula weights of low-temperature phenols. J. J. Morgan and M. H. Meighan. bibliog Ind & Eng Chem 17:854-6 Ag '25
Identification of phenols by means of the spectroscope. S: Palkin and H. Wales. Am Chem Soc J 46:1488-93 Je '24
Improved methods for determination of phenols in tar oils. J. J. Morgan and M. H. Meighan. bibliog diag Ind & Eng Chem 17:626-8 Je '25
Increased solubility of phenolic substances in water on addition of a third substance. C: R. Bailey. Chem Soc J 123:2579-90 O '23
Nitrosation of phenols; 3-chloro-4-nitrosophenol and its conversion into two isomeric chloroquinonemonoximes. H. H: Hodgson and F. H. Moore. Chem Soc J 123:2499-2507 O '23
Polyhydroxy-methylanthraquinones; condensation of opianic acid with substituted phenols—orientation in the preparation of anthraquinones. R. A. Jacobson and R. Adams. Am Chem Soc J 46:2788-93 D '24
Précipitation des phénols des goudrons au moyen des acides. F. Schulz and J. Prunet. Chimie & Ind 13:383-4 Mr '25
Researches on hydantoins; a method of synthesizing 1,5-diaryl-hydantoins: 1, 5-di (para-hydroxyphenyl)-hydantoin. R. D. Coghill. Am Chem Soc J 47:216-21 Ja '25
Researches on hydantoins; the synthesis of hydantoins containing phenolic groups in the glyoxaline nucleus. R. D. Coghill and T. B. Johnson. Am Chem Soc J 47:184-93 Ja '25
Researches on vertical retort tars; the phenolic constituents. G. S. Currey. Soc Chem Ind J 42:379-86 S 21 '23; Abstract. Gas J (Lond) 164:713 D 12 '23
Studies in fluorescence spectra; phenol and phenolic ether vapours. J. K. Marsh. Chem Soc J 125:418-23 F '24
Sulphurised compounds of phenols; abstract. Soc Dyers & Col J 41:334 O '25
Surface tensions of aqueous phenol solutions; activity and surface tension. A. K. Goard and E. K. Rideal. Chem Soc J 127:1668-76 Jl '25
Use of the salts of the arylsulphonhalogenoamides in the estimation and iodination of phenols. E. Roberts. Chem Soc J 123:2707-12 O '23

See also Bakelite; Cresol; Nitrophenols; Nitroso-phenols

Bibliography
Bibliography on the detection of phenols in water supplies. Am Water Works Assn J 14:348-51 O '25

PHENOLSULFONEPHTHALEIN
Dimethyl and diethyl ethers of phenol-sulfonephthalein and of ortho-cresolsulfonephthalein. W. R. Orndorff and C. V. Shapiro. Am Chem Soc J 46:2856-60 D '24

PHENOTHIOXIN
Synthesis of derivatives of phenothioxin. S. Krishna. Chem Soc J 123:2782-6 N '23

PHENOXYACETIC acid
Nitration of para-carboxy-phenoxyacetic acid. W. G. Christiansen. Am Chem Soc J 47:1158-62 Ap '25

PHENOXYPHENYLDICHLOROARSINE
Relative rates of conversion of phenoxyphenyldichloroarsine and its chloro-derivatives into chlorophenoxarsines. E. Roberts and E. E. Turner. Chem Soc J 127:2004-12 S '25

PHENYL benzoate
Reaction between metallic sodium and aromatic aldehydes, ketones and esters; esters. F. F. Blicke. Am Chem Soc J 47:229-39 Ja '25

PHENYL benzoyl acetylene
Some addition reactions of phenyl benzoyl acetylene. E. P. Kohler and G. R. Barrett. Am Chem Soc J 46:747-53 Mr '24

PHENYL benzyl diketone
Phenyl benzyl diketone and some derivatives. T: Malkin and R. Robinson. Chem Soc J 127:369-77 F '25

PHENYL group
Action of inorganic halides on organometallic compounds. F: Challenger and F. Pritchard. Chem Soc J 125:864-75 Ap '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:11 Ja 4 '24
Conditions underlying the formation of unsaturated and cyclic compounds from halogenated open-chain derivatives; the influence of the phenyl group on the formation of the *cyclo*propene ring. W. Haerdi and J. F. Thorpe. Chem Soc J 127:1237-48 Je '25
Investigations on the dependence of rotatory power on chemical constitution; three optically active alcohols containing a phenyl group and some esters derived therefrom. L. F. Hewitt and J. Kenyon. Chem Soc J 127:1094-1104 My '25

PHENYL semicarbazide
2-phenyl semicarbazide. R. C. Goodwin and J. R. Bailey. Am Chem Soc J 46:2827-32 D '24

PHENYLAMMONIUM compounds
Factors affecting the stability of mercurials and the mercuration of substituted phenylammonium salts. M. S. Kharasch and L. Chalkley, jr. Am Chem Soc J 46:1211-23 My '24

PHENYLBENZIMINOPHENYL ether
Imino-aryl ethers; the molecular rearrangement of *N*-phenylbenziminophenyl ether. A. W: Chapman. Chem Soc J 127:1992-8 S '25

PHENYLCARBAMIDE
Sulphonation of *para*-substituted phenylcarbamides. J: R: Scott. Chem Soc J 123: 3191-3202 D '23

PHENYLCARBIMIDE
Condensation of aromatic aminosulphonic acids with *iso*cyanic acid, phenylcarbimide, and cyanamide. J: R. Scott and J. B. Cohen. Chem Soc J 123:3177-91 D '23

PHENYLCHROMONE (3-). See Isoflavone

PHENYLDICHLOROAMINES
Substituted phenyldichloroamines. K. J. P. Orton and J: E. Bayliss. Chem Soc J 123: 2790-2 N '23

PHENYLENEDIAMINES
Electrolytic preparation of *p*-phenylenediamine, aminosalicylic acid, succinic acid, and hydrocinnamic acid. J. F. Norris and E. O. Cummings. Ind & Eng Chem 17:305-7 Mr '25
Solubility of the phenylenediamines and of their monoacetyl derivatives. N. V. Sidgwick and J. A. Neill. Chem Soc J 123:2813-19 N '23

PHENYLETHYL alcohol
Synthesis of phenylethyl alcohol. C. S. Leonard. Am Chem Soc J 47:1774-9 Je '25

PHENYLETHYLAMINE
Condensation of phenlyethylamine with *s*-dichlorodimethyl ether. W. F. Short. Chem Soc J 127:269-71 Ja '25

PHENYLGLUCOSAZONE
Quantitative study of the interaction of glucose and phenylhydrazine. E. Knecht and F. P. Thompson. Chem Soc J 125:222-6 Ja '24

PHENYLGLYOXALINE
Substitution in the benzene nucleus on nitration of 2-phenylglyoxaline and its carboxylic acids. F. L. Pyman and E. Stanley. Chem Soc J 125:2484-8 D '24
Tautomerism of amidines; methylation of glyoxalines by diazomethane—bromination of 4(or 5)-phenylglyoxaline. W: G. Forsyth and F. L. Pyman. Chem Soc J 127:573-81 Mr '25

PHENYLHYDRAZINE
Bromination of acyl derivatives of phenylhydrazine; preparation of 2:4-dibromophenylhydrazine. J. E. Humphries and R. Evans. Chem Soc J 127:1676-7 Jl '25
Quantitative study of the interaction of glucose and phenylhydrazine. E. Knecht and F. P. Thompson. Chem Soc J 125:222-6 Ja '24

PHENYLHYDRAZONES
Action of halogens on phenylhydrazones; the action of chlorine. J. E. Humphries, H: Humble and R. Evans. Chem Soc J 127:1304-7 Je '25
Reduction of phenylhydrazones. R. C. Goodwin and J. R. Bailey. Am Chem Soc J 47:167-74 Ja '25
Tautomerism of the mesoxalic acid and pyruvic acid phenylhydrazones; evidence for the hydrazone structure of the tautomerides. H. R. Stevens and F. W. Ward. Chem Soc J 125:1324-9 Je '24

PHENYLIMIDAZOLE
Tautomerism of amidines; methylation of glyoxalines by diazomethane—bromination of 4(or 5)-phenylglyoxaline. W: G. Forsyth and F. L. Pyman. Chem Soc J 127:573-81 Mr '25

PHENYLMAGNESIUM bromide
Action of phenylmagnesium bromide on organic acids. F. N. Peters, jr. and others. Am Chem Soc J 47:449-54 F '25

PHENYLMETHYLCARBAMYL chloride
Decomposition of substituted carbamyl chlorides by hydroxy-compounds; the reaction between phenylmethylcarbamyl chloride and ethyl alcohol at different temperatures. T. W. Price. Chem Soc J 125:115-29 Ja '24

PHENYLMETHYLSULFONE
Directing influence of the methanesulphonyl group. R: F. Twist and S: Smiles. Chem Soc J 127:1248-52 Je '25

PHENYLMORPHOLINE
N-phenyl-tetrahydro-para-oxazine and a new triphenylmethane dye. H. Adkins and R. M. Simington. Am Chem Soc J 47:1687-9 Je '25

PHENYLPROPIONIC acid (B). See Hydrocinnamic acid

PHENYLPROPIOPHENONES
Optically active β-phthalimino-β-phenylpropiophenones. A. McKenzie and T. M. A. Tudhope. Chem Soc J 125:923-30 Ap '24

PHENYLSEMICARBAZIDE
4-meta-nitrophenylsemicarbazide and certain derivatives. A. S. Wheeler and T. T. Walker. Am Chem Soc J 47:2792-6 N '25

PHENYLSUCCINIC acid
Studies in the phenylsuccinic acid series; the resolution of *r*-diphenylsuccinalic and *r*-diphenylsuccino-*p*-toluidic acids into their optical antipodes. H: Wren and R: E Burrows. Chem Soc J 125:1934-7 S '24

PHILADELPHIA
Plan of Philadelphia. J: I. Bright. Ann Am Acad 116:231-5 N '24
Replanning central part of Philadelphia. map Eng N 93:237 Ag 7 '24
Why Philadelphia speculators leave home. E. Dakin. Comm & Fin 13:1215-17 Je 25 '24

See also Electric plants (central stations)—Philadelphia; Housing—Philadelphia

Architecture

Carpenter's company organized in Philadelphia in 1724. C. A. Ziegler. il Am Arch 126: 313-18 O 8 '24
Early American cornices of Philadelphia. C. A. Ziegler. il diag Am Arch 126:1-10 Jl 2 '24
Sansom Gardens, a unique living quarter in Philadelphia. E. B. Clark. il Am Arch 128: 27-30 Jl 1 '25

See also Independence Hall, Philadelphia

Banks

Corn Exchange National bank is a Philadelphia institution. il Bankers M 109:1225-30 D '24

Bridges

Anchorages of the bridge over the Delaware river between Philadelphia and Camden. A. Dana and M. B. Case. il diags plans J Fr Inst 198:291-331 S '24
Billet to bridge; the Philadelphia-Camden bridge approaches completion. F. J. Crolius. il Blast F & Steel Pl 13:310-13 Ag '25
Controversy over tolls delays Delaware river bridge work. Eng N 94:1074 Je 25 '25
Delaware river bridge. J. B. Walker. il diag Sci Am 133:102-3 Ag '25
Delaware river bridge between Philadelphia and Camden. R. Modjeski. il diags plans W Soc E J 28:229-48 Je '23; Same abr. Can Eng 46:203-10 F 5 '24; Excerpt (Webb plate compression tests). Eng & Contr (Bldgs) 60:159 Jl 25 '23
Delaware river bridge cost increased $8,340,169. Eng N 93:396 S 4 '24
Delaware river bridge world's largest suspension bridge. W. Voigtlander. il diags Stevens Ind 42:110-12 O 15 '25
Research and experimental tests in connection with the design of the bridge over the Delaware river between Philadelphia and Camden. C. E. Chase. il diags J Fr Inst 200:417-36 O '25
Secondary effect of certain important river bridges on local transit conditions. J: A. Miller, jr. map Am Soc C E Pro 50:395-400 Ap '24; Discussion. 50:1124-8 S '24
Sinking pneumatic and open caisson foundations for Philadelphia-Camden bridge. C: Carswell. il diags Eng N 94:920-6 Je 4 '25
Tolls or taxes. Eng N 95:167 Jl 30 '25
Towers, cables and stiffening trusses of the bridge over the Delaware river between Philadelphia and Camden. L. S. Moisseiff. diags J Fr Inst 200:436-66 O '25

Commerce

Commercial survey of the Philadelphia marketing area. J. F: Dewhurst. maps U S Bur For & Dom Com Domestic Commerce Ser 1: 1-130 '25
Regional survey that promises much for merchandising. Ptr Ink 132:25-6+ S 3 '25

Railroads

Pennsylvania R.R. presents plans for Philadelphia station. il plans Eng N 94:898-9 My 28 '25

Rapid transit

Busines men back Mr Mitten; say present fare is essential to future development of property. Elec Ry J 66:175-6 Ag 1 '25
Fare hearing at Philadelphia. Elec Ry J 66: 253-4, 335, 371-2, 401-5 Ag 15, 29-S 12 '25
Higher fare upheld in Philadelphia. Elec Ry J 64:1009 D 13 '24
Peace in Philadelphia. Elec Ry J 65:629-30 Ap 18 '25
Philadelphia co-ordinates bus and rail. il map Elec Ry J 66:197-200 Ag 8 '25
Philadelphia fare upheld. Elec Ry J 63:396 Mr 8 '24
Philadelphia rapid transit company establishes a second parking area. il Elec Ry J 66:755 O 24 '25
Philadelphia rapid transit cooperative plan—a critical survey. D. D. Kennedy. Ind Management 68:367-72 D '24
P. R. T. gets increase. Elec Ry J 64:400-1 S 13 '24
Proposal of taxis for P.R.T. advanced by T: E. Mitten. Elec Ry J 66:838 N 7 '25

See also Philadelphia rapid transit company

PHILADELPHIA—*Continued*

Sesqui-centennial exposition

Building plans for Sesqui-centennial exposition at Philadelphia cut down. Comm & Fin Chr 121:2113-14 O 31 '25

Coming World exposition at Philadelphia—trifling with a great project. Comm & Fin Chr 121:2075-80 O 31 '25

Sesqui-centennial, Philadelphia. I. S. Proper. il plan Power 62:383-5 S 8 '25

Streets

Philadelphia's traffic problems and their solution. J. B. Weeks. Ann Am Acad 116:235-40 N '24

Subways

Philadelphia builds Broad Street subway. il plans Eng N 94:840-4 My 21 '25

Water supply

All upland water suggested for Philadelphia. Eng N 94:169-70 Ja 22 '25

Holds to $99,000,000 water supply project. Eng N 93:522 S 25 '24

New sources of water supply for Philadelphia recommended. Eng N 92:290 F 14 '24

Operating headquarters of the Philadelphia water-works. S. M. Van Loan. il plan Eng N 92:196-7 Ja 31 '24

Philadelphia advised to spend $99,000,000 for water. Eng N 92:968-9 Je 5 '24

Report on Philadelphia's water supply. Pub Works 55:188-9 Je '24

PHILADELPHIA and Reading coal and iron corporation

Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:2541 My 16 '25

Reading company segregation. Moody's Inv Serv 16:27 Ja 17 '24

PHILADELPHIA company, Pittsburgh

Extracts from report for 1923. Comm & Fin Chr 118:1686 Ap 5 '24

Extracts from report for 1924. Comm & Fin Chr 120:1636 Mr 28 '25

Monument to service; new office building. il Gas Age 56:9-10 Jl 4 '25

President Thompson of Philadelphia company announces $100,000,000 five-year program. Pub Serv Management 39:59-60+ Ag '25

PHILADELPHIA electric company

Conowingo cost estimates not shaken. Elec W 85:731 Ap 4 '25

Engineering features of the Philadelphia electric company system. W. C. L. Eglin. il chart diags plans Elec W 83:933-50 My 10 '24

Mitten gives up fight for control. Elec W 85:781 Ap 11 '25

New Conowingo plan submitted at Baltimore hearing. Power 62:744 N 10 '25

Philadelphia commercial methods. C: J. Russell. il Elec W 83:951-5 My 10 '24

Philadelphia electric company. J. B. McCall. il chart Elec W 83:925-8 My 10 '24

Philadelphia railway attacks Conowingo project. Elec W 85:575-6, 680 Mr 14, 28 '25; Power 61:439 Mr 17 '25

Traction interests belittle Conowingo. Elec W 86:184 Jl 25 '25

PHILADELPHIA general hospital

Control of disease by diet. O. H. Petty and W: H. Stoner. il Nation's Health 7:449-52+ Jl '25

PHILADELPHIA rapid transit company

Annual report year ended Dec. 31, 1923. Comm & Fin Chr 118:1264 Mr 15 '24

Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:1452-3 Mr 21 '25

Maintenance of contact with employes of the Philadelphia rapid transit company. A. A. Mitten. Ann Am Acad 119:108-14 My '25

Necessity for P.R.T. revaluation up to expert. Elec Ry J 64:895 N 22 '24

$1,800,000 net for P.R.T. Elec Ry J 63:347 Mr 1 '24

Passenger revenue in Philadelphia up $753,340. Elec Ry J 65:428-30 Mr 14 '25

Philadelphia rapid transit explains Conowingo power development. Elec Ry J 65:518 Mr 28 '25

P.R.T. sells ten shares a minute. il Aera 13: 1502-8 Ap '25

Valuation appeal of the Philadelphia rapid transit company argued. Elec Ry J 62:1068 D 22 '23

PHILADELPHIA textile school

Annual business meeting, 23d, Philadelphia, June 5. Textile World 65:3943-4+ Je 14 '24

Comments from Textile World prize winners. Textile World 67:183-4+ Ja 10 '25

Two-day program in connection with the graduation exercises of the Philadelphia textile school. Textile World 67:3699-3700 Je 6 '25

PHILANTHROPISTS

Uneducated give to education. Comm & Fin 13:2469 D 24 '24

See also Gifts

PHILIPPINE ISLANDS

See also Railroads—Philippine Islands

Commerce

Application of the coastwise law to trade with the Philippine Islands. V. Villamin. Econ W n s 27:226-7 F 16 '24

How the industrial development of the Philippines will aid the American merchant marine. V. Villamin. Marine Eng 29:17-19 Ja '24

Philippines. Index p 10-12 Ag '24

Philippines: their economic importance. V. Villamin. Am Bankers Assn J 17:177+ S '24

Trade in Philippine copra and coconut oil. E. D. Gothwaite. il maps U S Bur For & Dom Com Trade Promotion Ser 11:1-120 '25

See also Lumber trade—Philippine Islands

Economic conditions

Business background of the Philippine question. C: Hodges. Annalist 23:159+ Ja 28 '24

Philippine international economic position. V. Villamin. Bankers M 108:571-3+ Ap '24

Philippine Islands from the standpoint of their economic and social progress under American sovereignty. J: H. Pardee. Econ W n s 27:76-8 Ja 19 '24

See also Budget—Philippine Islands; Labor and laboring classes—Philippine Islands; Strikes and lockouts—Philippine Islands

Independence

President Coolidge says time has not yet come for Philippine independence. Comm & Fin Chr 118:1227-9 Mr 15 '24

What about the Philippines? F: E. Sturdevant. Bankers M 110:249-52 F '25

Industries and resources

Can the Philippines supply our rubber needs? N. Lyons. il Forbes 16:669-71 Ag 15 '25

Philippines suitable for rubber culture. Rubber Age 15:127+ My 25 '24

Possibilities for para rubber production in the Philippine Islands. C. F. Vance and others. il maps U S Bur For & Dom Com Trade Promotion Ser 17:1-101 [bibliog. p. 100-1] '25

See also Automobile industry and trade—Philippine Islands; Gold mines and mining—Philippine Islands; Mines and mineral resources—Philippine Islands; Rubber industry and trade—Philippine Islands

PHILLIPS petroleum company

Annual report for year ended December 31, 1924. Comm & Fin Chr 120:1774 Ap 4 '25

Phillips increase profits in spite of low crude prices. R. B. Stafford. Nat Pet N 17:79-80 Ap 15 '25

PHLOGISTON

New light on phlogiston. T. L. Davis. Soc Chem Ind J (Chem & Ind) 44:725-7 Jl 17 '25

PHOENIX, Arizona

Rapid transit

Long-distance tours prove profitable. il Bus Transportation 2:560 D '23

PHONE us company
Birth of a notion; the "phone-us" company. Comm & Fin 13:380 F 20 '24

PHONOFILM. See Moving pictures, Talking

PHONOGRAPH needles
Large uses of steel in small ways. il Iron Tr R 75:167+ Jl 17 '24

PHONOGRAPH records
"Any woman's blues"; Wisconsin chair company sells phonograph records to colored folk. Ptr Ink 127:69-70 My 29 '24
Packard's canned sales talk. D. G. Baird. il Sales Management 7:1373-4+ Ag '24

Manufacture
Manufacture of phonograph matrixes. S. Wein. Metal Ind 22:405-6 O '24

PHONOGRAPHS

Advertising
How Victor is forcing sales in cities and trade centers. A. W. Hilton. Ptr Ink 130:17-20 Mr 19 '25

Manufacture
Two policies that have saved our business three times. B. E. Bensinger. System 48: 419-23+ O '25

PHOSGENE
Calcium phosgeno-aluminate: a physico-chemical study. A. F. O. Germann and C. R. Timpany. J Phys Chem 29:1423-31 N '25
Conductivity of phosgene solutions of aluminium chloride at 25°, 0° and +45°. A. F. O. Germann. diag J Phys Chem 29:1148-54 S '25
Densities of solutions of aluminium chloride in liquid phosgene. A. F. O. Germann. diag J Phys Chem 29:138-41 F '25
Determination of phosgene. H. G. Reeves. diag Soc Chem Ind J 43:279-80 Ag 22 '24
Dielectric constant of liquid phosgene. H. Schlundt and A. F. O. Germann. J Phys Chem 29:353-5 Mr '25
General theory of solvent systems. A. F. O. Germann. Am Chem Soc J 47:2461-8 O '25
Preparation of phosgeno salts. A. F. O. Germann and C. R. Timpany. diags Am Chem Soc J 47:2275-8 S '25
Properties of phosgene solutions; vapor tension curves of aluminum chloride solution at 0° and at 25°. A. F. O. Germann and G. H. McIntyre. J Phys Chem 29:102-5 Ja '25
Reactions in phosgene solution; A. F. O. Germann. J Phys Chem 28:879-86 Ag '24
Reactions in phosgene solution; formation of chloraluminates. A. F. O. Germann and K. Gagos. diags J Phys Chem 28:965-72 S '24
See also Thiophosgene

PHOSGENO-aluminates
Calcium phosgeno-aluminate: a physico-chemical study. A. F. O. Germann and C. R. Timpany. J Phys Chem 29:1423-31 N '25
Phosgeno-aluminates of sodium, strontium and barium. A. F. O. Germann and D. M. Birosel. diag J Phys Chem 29:1469-76 N '25

PHOSPHATES
Acid production in the fertilizer industry in last half of 1924. Oil Paint & Drug Rep 107:68 Je 1 '25
Acid production in the fertilizer industry showed a loss in the first half of 1924. Oil Paint & Drug Rep 106:20 N 10 '24
Acids production in the fertilizer industry in first half of 1925. Oil Paint & Drug Rep 108: 67 N 2 '25
American practice in the superphosphate industry. A. Ogilvie. il diag Chem Age (Lond) 10:288-9 Mr 22 '24
Another side of the available phosphate problem. W: H. Waggaman and H: W. Easterwood. Chem & Met Eng 29:1003-5 D 3 '23
Basic slag as phosphate fertilizer. W. H. Waggaman and H. W. Easterwood. il Chem & Met Eng 29:873-6 N 12 '23
Basic slags and rock phosphates. E. Vanstone. Soc Chem Ind J 44:155-7 Ap 3 '25
Chemical changes occurring in calcium cyanamide acid phosphate mixtures. K. D. Jacob and J. M. Braham. bibliog Ind & Eng Chem 17:64-8 Ja '25
Chemistry in its relation to agriculture. E. Holmes. Chem Age (Lond) 12:251 Mr 14 '25
Double-superphosphate production simplified by eliminating den. Chem & Met Eng 30: 23-4 Ja 7 '24
Double superphosphates. Chem Age 32:152-3 Mr '24
Experiments on the origin of phosphate deposits. W: A. P. Graham. Econ Geol 20: 319-34 Je '25
Fertilizer industry conquering corrosion. flow sheet Chem & Met Eng 31:50-1 Jl 14 '24
Les gisements de phosphates du Maroc. Génie Civil 83:410-11 O 27 '23
Mass production in the superphosphate industry. Chem Age (Lond) 13:351 O 3 '25
Melrose phosphate field, Montana. R. W. Richards and J. T. Pardee. U S Geol S Bul 780—A:1-32, pl 1-2 '25
Mineral industry of the British Empire and foreign countries; statistics, 1919-1921. 43p Gt. Brit. Imperial mineral resources bur., London '23
Modern British superphosphate plant. il Chem Age (Lond) 11:212-13 Ag 30 '24
Phosphate deposits in the Wind river mountains, near Lander, Wyoming. D. D. Condit. map U S Geol S Bul 764:1-37, pl 1-3 '24
Phosphate deposits of Idaho and their relation to the world supply. V. R. D. Kirkham. 28p Univ. of Idaho, Moscow '25
Phosphate deposits of the Pacific. F. D. Power. il Econ Geol 20:266-81 My '25; Discussion. E. Blackwelder. 20:698-9 N '25
Phosphate rock mined and shipped in 1923. Eng & Min J 117:932 Je 7 '24
Phosphate rock mined and shipped in 1924. Manuf Rec 87:90 Je 25 '25; Same. Eng & Min J 120:136 Jl 25 '25
Phosphate rock production in 1924. H. D. Ruhm. Eng & Min J 119:99-100 Ja 17 '25
Phosphates of Florida. G: M. Chapin. il Manuf Rec 87:76-8 My 14 '25
Phosphatic fertilisers: some recent problems discussed. Chem Age (Lond) 10:84-6 Ja 26 '24
Preparation and chemical nature of calcined phosphate. E. W. Guernsey and J. Y. Yee. Ind & Eng Chem 16:228-32 Mr '24
La production mondiale des engrais phosphatés. Génie Civil 86:390-1 Ap 18 '25
Proposed protective duty on superphosphate. Chem Age (Lond) 12:327-8, 352-4, 427-8, 452-3, 499-500 Ap 4-11, My 2-9, 23 '25
Ratio between phosphate mined and superphosphate produced. E. Werchowsky. Eng & Min J 120:452 S 19 '25
Results of the superphosphate inquiry. Chem Age (Lond) 13:272-3 S 12 '25
Superphosphate inquiry. Chem Age (Lond) 13: 121 Ag 1 '25
World markets for phosphates. Chem & Met Eng 31:409-10, 591-2 S 15, O 13 '24

Analysis
Causes of errors in the analysis of high-grade phosphatic materials. R. J. Caro and E. L. Larison. Ind & Eng Chem 17:261-4 Mr '25
Free acid in acid phosphate—its determination and value. P. M. Shuey. Ind & Eng Chem 17:269-70 Mr '25

PHOSPHINE
Unimolecular decomposition of phosphine. C. N. Hinshelwood and B. Topley. diag Chem Soc J 125:393-406 F '24

PHOSPHOLIPINS
Estimation of lipoid phosphorus in cereal products. O. S. Rask and I: K. Phelps. Ind & Eng Chem 17:189-90 F '25

PHOSPHOR bronze. See Bronze

PHOSPHORESCENCE
Production of fluorescence and phosphorescence by radiations from the carbon arc lamp. W. S. Andrews. Gen Elec R 28:659-61 S '25
See also Fireflies; Luminescence

PHOSPHORIC acid

Another side of the available phosphate problem. W: H. Waggaman and H: W. Easterwood. Chem & Met Eng 29:1005 D 3 '23

Dissociation constants of phosphoric acid. E. B. R. Prideaux and A. T: Ward. Chem Soc J 125:423-6 F '24

Metallic corrosion in concentrated phosphoric acid. F. Clarkson and H. C. Hetherington. Chem & Met Eng 32:811 O '25

Oxidation potentials of ferrous and ferric salts in concentrated hydrochloric acid and phosphoric acid. S. R. Carter and F. H. Clews. Chem Soc J 125:1880-8 S '24

Phosphoric acid as an industrial chemical reagent. J. W. Turrentine. Chem & Met Eng 32:291 F 16 '25

Purification of phosphoric acid by crystallization. W: H. Ross, R. M. Jones and C. B. Durgin. Ind & Eng Chem 17:1081-3 O '25

Rôle of silica in plant growth; its assimilation and physiological relation to phosphoric acid. D. R. Nanji and W. S. Shaw. Soc Chem Ind J 44:1-6 Ja 2 '25

Solubility and freezing-point curves of hydrated and anhydrous orthophosphoric acid. W: H. Ross and R. M. Jones. diag Am Chem Soc J 47:2165-70 Ag '25

Specific gravity of concentration solutions of orthophosphoric acid. W: H. Ross and R. M. Jones. Ind & Eng Chem 17:1170-1 N '25

See also Phosphates

Analysis

Determination of phosphoric acid fertilizers. J. E. Breckenridge. Ind & Eng Chem 16: 1180 N '24

Free acid in acid phosphate—its determination and value. P. M. Shuey. Ind & Eng Chem 17:269-70 Mr '25

Physico-chemical studies on proteins; alkali binding—a comparison of the electrometric titration of proteins and of phosphoric acid with sodium and calcium hydroxides. W. F. Hoffman and R. A. Gortner. J Phys Chem 29:769-81 Jl '25

Sources of error in the determination of phosphoric acid by the molybdate-magnesia method. J. M. McCandless and J. Q. Burton. Ind & Eng Chem 16:1267-70 D '24

Manufacture

Development of volatilization methods for the manufacture of phosphoric acid. K. D. Jacob. Am Electrochem Soc Trans v 48 (preprint 13):125-33 S '25

Investigations of the manufacture of phosphoric acid by the volatilization process. W: H: Waggaman, H: W. Easterwood and T: B. Turley. U S Agric Bul 1179:1-55 '23

Manufacture of phosphoric acid by the volatilization process. W: H. Waggaman. il diags Ind & Eng Chem 16:176-9 F '24

Phosphoric acid recovery. Chem Age 32:443-4 N '24

Preparation of phosphoric acid; replacement of sand by potash silicates in the volatilization process. W. H. Ross, A. L. Mehring and R. M. Jones. Ind & Eng Chem 16:563-6 Je '24

Pyrolytic process for phosphoric acid. W. H. Waggaman and H. W. Easterwood. flowsheet il Chem & Met Eng 30:432-5 Mr 17 '24

Recent advances in the production of phosphoric acid for fertilizer and food purposes. W: H. Waggaman. diags Am Inst Chem Eng Trans v 14:175-85; Discussion. 185-7 '21-'22

Turning calcium sulphate wastes into valuable products; fireproof tile and stucco. G. L. Montgomery. il Chem & Met Eng 32:547-51 Je '25

PHOSPHOROUS acid

Hydrolytic decomposition of phosphorus trichloride. A. D. Mitchell. Chem Soc J 127: 336-42 F '25

Reaction between phosphorous acid and mercuric chloride. A. D. Mitchell. Chem Soc J 125:1013-30 My '24

PHOSPHORUS

Arc spectrum of phosphorus. M. O. Saltmarsh. Philos Mag 6th ser 47:874-82 My '24

Chemical analysis of cotton; the phosphorus content of cotton. A. Geake. bibliog Textile Inst J 15:T81-93 Mr '24

Decolorization of carbon disulphide solutions of iodine by red phosphorus. R. N. Traxler and F. E. E. Germann. J Phys Chem 29:1119-24 S '25

Lamp efficiency of cold light. E. Q. Adams. diag Illum Eng Soc 20:392-8 Ap '25

Low voltage arcs in phosphorus vapor. O. S. Duffendack and H. Huthsteiner. diags Phys R 25:501-8 Ap '25

Method for reducing the percentage of phosphorus in Swedish iron by diminishing the phosphorus jn charcoal. H. von Eckermann. Iron & Steel Inst J 111:379-94 no 1 '25

Relation between the glow of phosphorus and the formation of ozone. W: E. Downey. diags Chem Soc J 125:347-57 F '24; Abstract with discussion. Soc Chem Ind J (Chem & Ind) 43:9-10 Ja 4 '24

Series spectra of the stripped atoms of phosphorus (Pv), sulphur (Svi), and chlorine (Clvii). I. S. Bowen and R. A. Millikan. il Phys R 25:295-305 Mr '25

Series spectra of three-valence-electron atoms of phosphorus (Piii), sulphur (Siv) and chlorine (Clv). A. A. Millikan and I. S. Bowen. Phys R 25:600-5 My '25

Series spectra of two-valence-electron atoms of phosphorus (Piv), sulphur (Sv), and chlorine (Clvi). I. S. Bowen and R. A. Millikan. Phys R 25:591-9 My '25

Spectroscopic study of the luminescent oxidation of phosphorus. H. J. Emeléus and W: E. Downey. diag Chem Soc J 125:2491-5, pl 1 D '24

See also Ferrophosphorus; Steel—Sulfur and phosphorus content

Analysis

Estimation of phosphorus. H. Burton-Smith. Chem Age (Lond) 13:sup3 Jl 4 '25

Estimation of phosphorus in the presence of vanadium. G. W. Gray and G. D. Garbutt. Iron & Steel Inst J 111:395-7 no 1 '25; Same. Engineering 119:717 Je 5 '25

Rapid determination of phosphorus in bronze. W: E. Baulieu, jr. il Ind & Eng Chem 17: 908 S '25

Rapid determination of phosphorus in phosphor bronzes. L. Lindemann. Ind & Eng Chem 16:916 S '24; Discussion. 16:1282-3 D '24

PHOSPHORUS pentachloride

Action of phosphorus pentachloride on 2-*iso*-nitroso-1-hydrindones. R. D. Haworth and H. S. Pink. Chem Soc J 127:1368-71 Je '25

Formation of phosphorus pentachloride from phosphorus trichloride and chlorine. H. A. Taylor. J Phys Chem 28:510-13 My '24

PHOSPHORUS pentoxide

Complexity of the solid state; the behaviour of phosphorus pentoxide. A. Smits and A. J. Rutgers. diag Chem Soc J 125:2573-9 D '24

PHOSPHORUS poisoning

Phosphorus poisoning in Chinese match factories. Monthly Labor R 20:1327-8 Je '25

PHOSPHORUS trichloride

Addition reactions of the phosphorus halides; kinetic evidence in regard to the mechanism of the reaction. J. B. Conant and V. H. Wallingford. Am Chem Soc J 46:192-202 Ja '24

Hydrolytic decomposition of phosphorus trichloride. A. D. Mitchell. Chem Soc J 127: 336-42 F '25

PHOSPHORUS trioxide

Spectroscopic study of the combustion of phosphorus trioxide and of hydrogen phosphide. H. J. Emeléus. diags Chem Soc J 127:1362-8 Je '25

PHOTOCHEMISTRY

Action of light on chlorine dioxide. H: Booth and E. J: Bowen. Chem Soc J 127:510-13 Mr '25

PHOTOCHEMISTRY—*Continued*
Action of light on the ferrous ferric iodine iodide equilibrium. E. K. Rideal and E: G. Williams. diag Chem Soc J 127:258-69 Ja '25
Calculation of degree of photolysis of potassium nitrate. C. S. Robinson. diag Am Chem Soc J 46:1834-6 Ag '24
Concentrated mercury arc as a source of light for photochemical work. G: S. Forbes and G: R. Harrison. Am Chem Soc J 47:2449-54 O '25
Conditions of reaction of hydrogen with sulphur; photochemical union. R. G: W. Norrish and E. K. Rideal. diags Chem Soc J 125:2070-81 O '24
Contact catalysis and photochemistry. W. D. Bancroft. Ind & Eng Chem 16:270-1 Mr '24
Evolution of hydrogen peroxide by oils on exposure to light. G. F. A. Stutz, H. A. Nelson and F. C. Schmutz. il Ind & Eng Chem 17:1138-41 N '25
First law of photochemistry. M. C. C. Chapman. Chem Soc J 125:1521-6 Jl '24
Mechanism of the photochemical reaction between hydrogen and chlorine. A. L. Marshall. diag J Phys Chem 29:842-52, 1453-61 Jl, N '25
Photo-activation of chlorine. W. Taylor. Philos Mag 6th ser 49:1164-8 Je '25; Discussion. E. J: Bowen. 50:879-80 O '25
Photochemical decomposition of nitrosyl chloride. E. J: Bowen and J: F: Sharp. Chem Soc J 127:1026-8 My '25
Photochemical decomposition of oxalic acid in the presence of uranium salts. W. C. Holmes. Am Dyestuff Rep 13:188+ Mr 24 '24
Photo-chemical properties of cuprous oxide. A. Garrison. J Phys Chem 28:279-84 Mr '24
Photochemical reactions in liquids and gases. Engineering 120:516-17 O 23 '25
Photochemical reactions in solutions of the alkali halides in acetophenone. J. L. R. Morgan, O. M. Lammert and R. H. Crist. diag Am Chem Soc J 46:1170-8 My '24
Photochemical reactivity of ozone in presence of other gases. R. O. Griffith, W: J. Shutt and J. MacWillie. diag Chem Soc J 123: 2752-74 N '23
Photochemical studies; the activation of a mercury surface by light; a possible relation between photoelectric effect and photochemical action. H. R. Moore and W. A. Noyes, jr. diag Am Chem Soc J 46:1367-76 Je '24
Photochemical studies; the reaction between nitrogen and hydrogen in the presence of mercury vapor, and the resonance radiation of mercury. W. A. Noyes, jr. Am Chem Soc J 47:1003-9 Ap '25
Photochemistry of the halogen hydrides. E. J: Bowen. Chem Soc J 125:1233-9 Je '24
Photodecomposition of chlorine water and of aqueous hypochlorous acid solutions. A. J: Allmand, P. W. Cunliffe and R. E. W. Maddison. Chem Soc J 127:822-40 Ap '25
Photolysis of potassium nitrate solutions. W: T. Anderson, jr. Am Chem Soc J 46:797-802 Ap '24
Photosensitive formation of water from its elements in the presence of chlorine. R. G: W. Norrish and E. K. Rideal. diag Chem Soc J 127:787-97 Ap '25
Photo-sensitivity of a hydrogen-bromine mixture at higher temperatures. S. C. Lind. J Phys Chem 28:55-6 Ja '24
Quantitative investigation of the photochemical interaction of chlorine and hydrogen. M. C. C. Chapman. diag Chem Soc J 123:3062-81 D '23
Rate of photochemical change in solids. E. J: Bowen and others. Chem Soc J 125:1218-21 Je '24
Studies in the experimental technique of photochemistry. L. Reeve. J Phys Chem 29: 39-57 Ja '25
Studies in the experimental technique of photochemistry; the determination of the energy distribution and the total energy in the radiation from quartz mercury vapour lamps. R. G. Franklin, R. E. W. Maddison and L. Reeve. diags J Phys Chem 29: 713-26 Je '25
Studies with the microbalance; the photochemical decomposition of silver bromide. E. J. Hartung. diag Chem Soc J 125:2198-2207 N '24
Study of benzalpyruvic acid and its esters; the action of sunlight on crystalline methyl benzalpyruvate. M. Reimer. Am Chem Soc J 46:783-90 Mr '24

See also Light; Photographic chemistry; Photosynthesis; Spectrum; Ultra-violet rays

PHOTOELASTICITY
Determination of stress by optical methods. Engineering 118:284 Ag 29 '24; Discussion. 118:462, 704, 769; 119:132-3 S 26, N 21, D 5 '24, Ja 30 '25
Effect of rotation on stress distribution in electric railway motor pinions. A. L. Kimball, jr. diags Gen Elec R 27:130-1 F '24
Eye-bolt stresses as determined by photoelastic test. T: H. Frost and W. E. Richards. diags Soc Auto Eng J 17:213-16 Ag '25
Photoelastic method applied to rigid-airship research. T: H. Frost. il Soc Auto Eng J 13:497-8 D '23
Photo-elasticity. E. G. Coker. diags J Fr Inst 199:289-331 Mr '25
Photoelasticity and its relation to gear wheels. A. L. Kimball, jr. il diags Am Mach 63:7-10, 51-4 Jl 2-9 '25; Same abr. Automotive Ind 52:1021-4 Je 11 '25
Stress distribution in rotating gear pinions as determined by the photoelastic method. P. Heymans and A. L. Kimball, jr. il diags plan Engineering 117:254-5 F 22 '24; Same. Mech Eng 46:129-30; Discussion. 130-2+ Mr '24
Translating stresses into color for visual observation. il Sci Am 130:323 My '24

PHOTOELECTRIC cells
L' amplification du courant des cellules photoélectriques au moyen des lampes à plusieurs électrodes. G. Ferrié, R. Jouaust and R. Mesny. Génie Civil 84:359-60 Ap 12 '24
Behavior of silver iodide in the photo-voltaic cell. A. Garrison. J Phys Chem 28:333-45 Ap '24; Discussion. 29:557-63, 1406-7 My, N '25
Behavior of silver iodide in the photo-voltaic cell; a new type of silver iodide photo-voltaic cell. A. Garrison. J Phys Chem 29:58-67 Ja '25
Listening to the stars; how the night skies regulate the clocks of France. F: M. Delano, jr. il Sci Am 131:310-11 N '24
Luminotron. T. H. Nakken. il diags Radio N 7:436-7 O '25
Measurement of candle-power by means of the photo-electric cell. F. K. Moss. diags Gen Elec R 27:592-601 S '24; Abstract. Illum Engr 17:137-8 Ag '24
Microphotomètre enregistreur à cellule photoélectrique; abstract. P. Lambert and D. Chalonge. diag Génie Civil 86:366 Ap 11 '25
New possibilities for the photoelectric cell. diags Am Inst E E J 44:1259-60 N '25
Photo-electric cells; Mr Case's high vacuum type. C. F. Elwell. il Electrician 93:520-2 N 7 '24
Radio aids the surgeon. J. Hollander. il Radio N 7:776+ D '25
Records of daylight by the photoelectric cell. J. E. Ives. il diag Illum Eng Soc 20:498-510 My '25
Vacuum tube and photo-electric cell. G. Ferrié. il diags Radio N 7:426-7+ O '25

PHOTOELECTRIC effect
Chance of an electron being ejected photoelectrically from an atom by X-rays. G. E. M. Jauncey. Philos Mag 6th ser 48:81-8 Jl '24
Influence of temperature upon the photo-electric effect. J. R. Nielsen. diags Phys R 25: 30-40 Ja '25
Light sensitivity of cuprous oxide and of selenium. V. P. Barton. diags Phys R 23: 337-44 Mr '24

PHOTOELECTRIC effect—*Continued*
Photochemical studies; the activation of a mercury surface by light; a possible relation between photoelectric effect and photochemical action. H. R. Moore and W. A. Noyes, jr. diag Am Chem Soc J 46:1367-76 Je '24
Photoelectric and photochemical activity. O. W. Richardson. Philos Mag 6th ser 47:975-6 My '24
Photoelectric effect in potassium vapour as a function of the frequency of the light. E. O. Lawrence. diag Philos Mag 6th ser 50: 345-59 Ag '25
Photo-electric effect of caesium vapor. J. Kunz and E. H. Williams. diag Phys R 22: 456-60 N '23
Photo-electric ionization of caesium vapor. P. D. Foote and F. L. Mohler. diags Phys R 26:195-207 Ag '25
Soft X-rays from iron. C: H. Thomas. diag Phys R 25:322-32 Mr '25
Some new thermoelectrical and actinoelectrical properties of molybdenite. W. W. Coblentz. U S Bur Stand Sci Pa 486:375-418 '24
Spectro-photoelectrical effects in argentite; the production of an electromotive force by illumination. P. H. Geiger. diag Phys R 22: 461-9 N '23
Statistical equilibrium in relation to the photo-electric effect, and its application to the determination of absorption coefficients. E. A. Milne. Philos Mag 6th ser 47:209-41 Ja '24

PHOTOELECTRICITY
Constancy of total photo-current from sodium with temperature change 20° C. to -190° C. R. C. Burt. Philos Mag 6th ser 49:1168-76 Je '25
Effect of heat treatment on the photo-electric emission from platinum. F. G. Tucker. diag Phys R 22:574-81 D '23
Photo-electric response of potassium at low temperatures. J. W. Hornbeck. Phys R 24: 631-8 D '24
Photo-electricity. H. S. Allen. 2d ed. 320p [bibliog. p. 287-320] Longmans '25
Positive rays produced by ultra-violet light. L. A. DuBridge. diags Phys R 25:201-7 F '25

See also Photoelectric cells

PHOTO-electrons. See Electrons

PHOTOENGRAVERS
Photo-engravers, Chicago; labor agreement. Monthly Labor R 19:408-9 Ag '24

PHOTOENGRAVING
Beginnings of halftone; taken from the note book of Stephen H. Horgan. L. R. McCabe. Inland Ptr 72:932-5; 73:69-70 Mr-Ap '24
Hacker proving process for photoengravers. il Inland Ptr 76:281 N '25
How a half-tone is made. il Ptg Art 43:338-9 Je '24
How a line cut is made. il Ptg Art 43:336-7 Je '24
How to get the most out of halftones. S. H. Horgan. Inland Ptr 76:226 N '25
Neglected engraving methods that warrant attention. L. Flader. Ptr Ink 131:36 My 14 '25
Photoengraving and photo-offset lithography. W: Gamble. Inland Ptr 75:93-5, 261-2 Ap-My '25
Process and practice of photo-engraving. H. A. Groesbeck. jr. 260p Doubleday '24
Suggestions on the printing of halftones. E: Gorman. Inland Ptr 72:958 Mr '24
Taking some of the mystery out of buying photo-engravings. Sales Management 6: 1106+ Je '24

See also Photolithography; Zincography

PHOTOGRAPHERS

Accounting
Accounting for photographers. R. F. Hampson. J Account 36:421-9 D '23

PHOTOGRAPHIC chemistry
Chemistry of the acid-fixing and hardening bath. S. E. Sheppard and A. Ballard. J Fr Inst 200:537-8 O '25
Dispersity of silver halides in relation to their photographic behavior. F. E. E. Germann and M. C. Hylan. J Phys Chem 28:449-56 My '24
Materia photographica; a dictionary of the chemicals, raw materials, developing agents and dyes used in photography. A. B. Hitchins. 96p F. V. Chambers, Phila. '24
Reactions of chromic acid and its salts. J. M. Eder. Inland Ptr 75:594-6, 772-4; 76:91-3 Jl-Ag, O '25
Size-frequency distribution of grains of silver halide in photographic emulsions and its relation to sensitometric characteristics. E. P. Wightman, A. P. H. Trivelli and S. E. Sheppard. il J Phys Chem 28:529-43 Je '24
Solarization, and photographic reversal by desensitizers. B. H. Carroll. il J Phys Chem 29:693-704 Je '25
Studies in photographic sensitivity. S. E. Sheppard, E. P. Wightman and A. P. H. Trivelli. J Fr Inst 198:507-15, 629-46; 200:51-86, 335-48 O-N '24, Jl, S '25
Titration method for the determination of silver in photographic preparations. M. Marasco. Ind & Eng Chem 16:945-6 S '24

See also Photochemistry; Silver iodide

PHOTOGRAPHIC films. See Film storage; Photography—Films

PHOTOGRAPHIC lenses. See Lenses, Photographic

PHOTOGRAPHIC paper
Baryta coating for different photographic emulsions. T. Bentzen. Paper Tr J 80:43-5 My 21 '25
Baryta paper. T. Bentzen. Tech Assn Pa ser 8:49-52 '25; Same. Paper Tr J 80:195+ F 5 '25; Same. Paper 35:104+ F 12 '25
Colloids and the formation of white spots in photographic emulsion papers. T. Bentzen. Paper Tr J 80:45 Mr 26 '25
Effect of brown and blue sensitizing materials on physical properties of paper. T. D. Jarrell and F. P. Veitch. Paper Tr J 78:45-7 Ap 24 '24
Effect of temperature and time of storage on the physical properties of undeveloped brown print paper. T. D. Jarrell and F. P. Veitch. Paper Tr J 80:56-7 My 14 '25
Making photographic paper. E. Arnould. Paper 34:137-40 My 15 '24
Manufacture of photographic papers. A. Fast. Paper Tr J 79:59-60 N 6 '24
Raw stock for photographic papers. Paper Tr J 79:41-2 Jl 31 '24
Why are photographic papers coated with barium sulphate? Paper Tr J 79:38+ Ag 7 '24

PHOTOGRAPHIC records
Photographic records prove valuable in railway work. Elec Ry J 66:202 Ag 8 '25
Recording construction in drawings and photographs. Eng & Contr (Bldgs) 61:475 F 27 '24

PHOTOGRAPHIC surveying
Photographic surveying for mining engineers. L. A. Woodworth. bibliog il diags map Eng & Min J 118:485-90 S 27 '24; Same. Eng & Contr (Ry) 63:367-74 F 18 '25

See also Surveying, Aerial

PHOTOGRAPHS, Electric transmission of. See Phototelegraphy

PHOTOGRAPHY
Gelatin in photography. Soc Chem Ind J (Chem & Ind) 44:84-5 Ja 23 '25
Notes from the research laboratory, Eastman kodak company. Published in monthly numbers of Journal of Franklin institute
Photographic facts and formulas. E. P. Wall. 386p American photographic pub. co., Boston '24
Physics of the developed photographic image. F. E. Ross. 217p Van Nostrand '24
Relation between time and intensity in photographic exposures. L. A. Jones and E. Huse. J Fr Inst 197:263-4 F '24

PHOTOGRAPHY—*Continued*
Significant progress in research on photography. C. E. K. Mees. Ann Am Acad 119:10-12 My '25

See also Color photography; Moving picture photography; Photographic chemistry; Photographic surveying; Photomicrography; Photostat; Phototelegraphy; Radiography

Apparatus and supplies

Corrosion of monel metal in photographic solutions. J. I. Crabtree and G. E. Matthews. il Ind & Eng Chem 16:671-5 Jl '24
Effect of electrolysis on the rate of corrosion of metals in photographic solutions. J. I. Crabtree, H. A. Hartt, and G. E. Matthews. Ind & Eng Chem 16:13-19 Ja '24
Telescopic towers for aerial photographing. il Eng N 94:289 F 12 '25

See also Cameras; Photostat

Bibliography

Photography; general. Coventry Pub Lib Readers' Bul 2:63-72 My '24

Developing and developers

État actuel de nos connaissances sur l'image latente et la sensibilité des émulsions photographiques. A. Seyewetz. il Chimie & Ind 13:355-60 Mr '25
Influence of stirring on the rate and course of development. S. E. Sheppard and F. A. Elliott. J Fr Inst 198:333-43 S '24
Investigations on the latent photographic image; the relation between the light frequency and number of developable centres. F. C. Toy and H. A. Edgerton. diag Philos Mag 6th ser 48:947-61 N '24
Studies in photographic sensitivity. S. E. Sheppard, E. P. Wightman and A. P. H. Trivelli. J Fr Inst 198:507-15, 629-46; 200:51-86, 335-48 O-N '24, Jl, S '25
Use of commercial plates in research on the latent photographic image. F. C. Toy. Philos Mag 6th ser 49:1104-12 Je '25

Films

From raw cotton and silver bullion to your snapshot; photographic film in the making. il Sci Am 131:169 S '24

Printing process

See also Blueprints

Scientific applications

Filmaufnahme elektrischer vorgänge. A. M. Schmidt. il Elektrotech Zeit (special no.) 46:22-4 Mr 1 '25
Photographic measurements in aerodynamics. R. Katzmayr. il diags Aviation 17:1334-7 D 1 '24
Photographing an air jet. A. J. Nicholas. il diags Power 61:603-4 Ap 21 '25
Photography as a scientific implement. A. E. Conrady and others. 557p Van Nostrand '23
Spark photography as a means of measuring rate of explosion. J: E. Smith. il diags Phys R 25:870-6 Je '25

Studios and dark rooms

Unique studio for photographer. il Bldg Age 47:99 Ag '25

PHOTOGRAPHY, Aerial
Aerial photographs, surveys and maps. J. W. Pierce. il Can Eng 48:486-9 My 12 '25
Aerial photography an aid to better map making. G. H. Matthes. il Eng N 92:25-7 Ja 3 '24
Aerial photography and the engineer. E. L. Curtis. il Prof Eng 9:5-6 Ag '24
Correcting the lean in aerial photographs. E. H. Corlett. diags Eng N 93:352-3 Ag 28 '24
Crop reporting by airplane. O. M. Kile. il Sci Am 131:22-3 Jl '24
Difficulties and possibilities in aeroplane surveying. H. L. Cooke. Eng & Contr (Ry) 62: 631-7 S 17 '24
Industrial castles from the air. S. M. Fairchild. il Am Ind 24:17-22 F '24
Making of greater New York's air map. map Aviation 16:16-17 Ja 7 '24

See also Surveying, Aerial

PHOTOGRAPHY, Architectural
What architecture demands of the camera; the photographic studies of Sigurd Fischer. L. V. Solon. il Arch Rec 54:572-83 D '23
Working photographs. il (front) Am Arch 125: 197-202p; 126:275-6, pl 97-101 F 27, S 24 '24

PHOTOGRAPHY, Astronomical. See Astronomical photography

PHOTOGRAPHY, Commercial
Act of giving photographs qualities of the original canvas. W. L. Larned. il Ptr Ink 126:74+ F 14 '24
Pictures that put a sales hook in printed matter. D: H. Colcord. il Sales Management 6: 947-8+ My '24

See also Advertisements, Pictorial—Photographs

PHOTOGRAPHY in industry
Camera as an aid to safety. W. F. Sterne. il Nat Safety N 8:17-18 N '23
Industrial photography applied to iron and steel. J: D. Knox. il Iron Tr R 74:221-5 Ja 17 '24
Photographing engineering structures by reflected sunlight. H. G. Overholt. il Eng N 95:190 Jl 30 '25
Technical photography. Elec R (Lond) 95:688 N 7 '24
Value of photography to the machine builder. D. A. Hampson. il Mach 31:481 F '25

See also Photographic records

PHOTOGRAPHY of atoms
Ejection of protons from nitrogen nuclei, photographed by the Wilson method; abstract. P. M. S. Blackett. J Fr Inst 200:253-4 Ag '25
Motion pictures of atoms. Sci Am 131:92 Ag '24

PHOTOGRAPHY of documents
Appareil photographique Reprojector, pour la reproduction et la projection des documents. il Génie Civil 86:91-2 Ja 24 '25

See also Photostat

PHOTOGRAPHY of projectiles
Camera for studying projectiles in flight. H. L. Curtis, W. H. Wadleigh and A. H. Sellman. il U S Bur Stand Tech Pa 255:189-202 '24
Spark photography and its application to some problems in ballistics. P. P. Quayle. bibliog il U S Bur Stand Sci Pa 508:237-76 '25
Tagging a bullet on the wing. S. P. Meek. il Sci Am 133:158-9 S '25

PHOTOGRAPHY of sound
Low-Hilger audiometer. il diags Engineering 117:108-9 Ja 25 '24
Noise in London cars photographed by audiometer. il Elec Ry J 63:506 Mr 29 '24

PHOTOGRAVURE
What process shall we use? W: A. Kittredge. il Ptg Art 42:447-52 Ja '24

See also Rotogravure

PHOTOLITHOGRAPHY
Photo-lithography and offset printing. F. O. Sullivan. Inland Ptr 74:539-40, 753-4, 905-6; 75:89-90, 257-8, 393-4, 593-4, 769-71; 76:89-91, 265-7, 433-6, 601-2 Ja-Ag, O '25-Ja '26
Revolutionizing indirect positive making. F. O. Sullivan. Inland Ptr 75:776 Ag '25

PHOTOLUMINESCENCE. See Luminescence

PHOTOMAGNETIC effect
Photomagnetic properties of the silver halides. A. Garrison. Am Chem Soc J 47:622-6 Mr '25

PHOTOMECHANICAL processes
Commercial engraving and printing. C: W: Hackleman. 838p Commercial engraving pub. co., Indianapolis, Ind. '24
Photomechanical methods. S. H. Horgan. Published in monthly numbers of Inland printer

See also Photoengraving; Photolithography; Rotogravure

PHOTOMETERS
Luminous flux photometry; Everett, Edgcumbe & co.'s cube photometer. il Elec R (Lond) 93:808-9 N 30 '23
Le luxmètre Mazda, de la Compagnie des lampes. il Génie Civil 84:114-15 F 2 '24
Microphotomètre enregistreur à cellule photoélectrique; abstract. P. Lambert and D. Chalonge. Génie Civil 86:366 Ap 11 '25
Ein neuer beleuchtungsmesser mit schattenmesseinrichtung. W. Bechstein. il diags Zeit Ver Deutsch Ing 68:1271-2 D 6 '24
New illumination photometer. il Illum Engr 16:150-1 Je '23
New photometer based on acuteness of vision. Illum Engr 17:139 Ag '24
Optical pyrometer as a brightness photometer. W. E. Forsythe. J Fr Inst 197:517-25 Ap '24
Registering micro-photometer for accurate measurements. M. Siegbahn. il Philos Mag 6th ser 48:217-24 Jl '24

See also Foot-candle meter

PHOTOMETRY
Catechism of central station gas engineering in the United States. Am Gas J 121:799-802, 821-4, 839-42 Ag 30-S 13 '24
Colorimetry and photometry of daylight and incandescent illuminants by the method of rotary dispersion. I. C. Priest. Illum Eng Soc 18:861-4; Discussion. 864-8 N '23
Co-ordination of research in illuminating engineering and some practical applications. J. S. Dow. Illum Engr 17:7-9 Ja '24
Daylight recording at the Edison electric illuminating company of Boston. H. J. Baker. il diag Illum Eng Soc 20:515-22; Discussion. 523-6 My '25
Daylight recording by the New York Edison company. W. R. Boyd. il chart plans Illum Eng Soc 20:511-14 My '25
Determination of daylight intensity at a window opening. H. H. Kimball. diag Illum Eng Soc 19:217-34 Mr '24
Distribution of luminosity throughout a potential cycle in a neon glow discharge lamp. E. Karrer and A. Poritsky. diags J Fr Inst 198:93-7 Jl '24
International commission on illumination meeting at Geneva. diags plan Gas J (Lond) 169:150-2, 219-20 Ja 21-28 '25
Isocandles and the asymmetric lighting unit. F. Benford. diags Gen Elec R 28:271-6 Ap '25
Light, photometry and illuminating engineering. W: E: Barrows. 412p McGraw-Hill '25
Lustre of yarns and fabrics. A. Adderley and A. E. Oxley. bibliog diags 4 pls Textile Inst J 16:T167-84 Je '25
Measurement of candle-power by means of the photo-electric cell. F. K. Moss. diags Gen Elec R 27:592-601 S '24; Abstract. Illum Engr 17:137-8 Ag '24
Measurements of natural light during the solar eclipse of the sun, January 24th, 1925. il diags Illum Eng Soc 20:565-628 Jl '25
New possibilities for the photoelectric cell. diags Am Inst E E J 44:1259-60 N '25
Photometric method for magnesia in Portland cement. W. E. Haskell. Concrete (cement mill sec) 27:1-2 Jl '25
Photométrie; quatre rapports. Génie Civil 86: 236-7 Mr 7 '25
Photometry as related to illuminating engineering. W. F. Little. il Illum Eng Soc 19:497-508; Discussion. 508-17 Jl '24
Primary standard of light, following the proposal of Waidner and Burgess. H. E. Ives. bibliog il diags J Fr Inst 197:147-82, 359-400 F-Mr '24; Abstract. Gas J (Lond) 167:642-3 Ag 20 '24
Records of daylight by the photoelectric cell. J. E. Ives. il diags Illum Eng Soc 20:498-510 My '25
Some problems in the definition and measurement of illumination. J. Frith. Illum Engr 17:155-9 O '24
Visibility of radiant energy. K. S. Gibson and E. P. T. Tyndall. diag Illum Eng Soc 19:176-93; Discussion. 194-6 F '24
Year's progress in illumination 1923-1924. Illum Eng Soc 19:768-75 O '24
Year's progress in illumination, 1924-1925. Illum Eng Soc 20:759-68 S '25

See also Color; Colorimeters and colorimetry; Light; Polarimeter; Reflectometer; Spectrophotometry

Standards
Illuminating engineering nomenclature and photometric standards. Illum Eng Soc 20: 629-41 Jl '25

PHOTOMETRY, Astronomical
Connection between astronomical and practical photometry. C: Fabry. Illum Eng Soc 20: 12-19 Ja '25

PHOTOMICROGRAPHY
Amateur photomicrography by means of a microscope and hand camera. il Sci Am 129: 405 D '23
Bausch & Lomb metallographic equipment. il Am Mach 60:526-7 Ap 3 '24
Conical illumination in metallography. H. S. George. il diags Iron Age 113:426-30 F 7 '24; Same. Brass W 20:197-201 Je '24
How much does screen testing mean? R. B. Ladoo. il Chem & Met Eng 31:623-6 O 20 '24
Leitz micro-metallograph—model 1924. il Am Mach 62:178-9 Ja 22 '25
Microphotographic attachment for Zeiss portable microscope. il Am Mach 60:716 My 8 '24
Photography and measurement of fine particles. H: Green. il J Ind Hygiene 7:155-65 Ap '25
Photomicrography with microscope and camera. il Brass W 20:8 Ja '24
Preparing microphotographs of metals; data sheets. Foundry 53:730a, 786a, 838a, 880a S 15-N 1 '25
Uncommon views of common insects; illustrations. Sci Am 130:179 Mr '24

See also Microscope and microscopy

PHOTO-POLYMERIZATION. See Polymerization

PHOTORADIOGRAM. See Phototelegraphy

PHOTO-resistance effect
Photo-resistance effect for metals at low temperatures. R. S. Bartlett. diag Phys R 26: 247-55 Ag '25

PHOTOSCULPTURE
With camera and chisel; another form of photo-sculpture. J. H. Smith. il Sci Am 130: 106+ F '24

See also Stone Mountain monument

PHOTOSTAT
Relieving the blueprint and photostat burden. C. E. Hunter. Am Mach 60:43-4 Ja 10 '24

PHOTOSYNTHESIS
Action of ultraviolet light upon carbon dioxide and water. C. W. Porter and H. C. Ramsperger. Am Chem Soc J 47:79-82 Ja '25
Examination of photosynthetic sugars by the methylation method. J. C. Irvine and G. V. Francis. Ind & Eng Chem 16:1019-20 O '24
Investigations in photosynthesis; an electrometric method of determining carbon dioxide. H. A. Spoehr and J. M. McGee. diag Ind & Eng Chem 16:128-30 F '24
Photosynthesis. E. C. C. Baly. Ind & Eng Chem 16:1016-18 O '24
Photosynthesis in tropical sunlight. N. R. Dhar and R. P. Sanyal. J Phys Chem 29: 926-34 Ag '25
Photosynthesis; the assimilation of carbon by green plants. W. Stiles. 268p [bibliog. p. 212-51] Longmans '25
Physiology of photosynthesis. J. C. Bose. 287p Longmans '24
Progress in chemistry and the theory of population. C. L. Alsberg. Ind & Eng Chem 16: 524-6 My '24
Recent work on photosynthesis; abstract. E. C. C. Baly and others. Chem Age (Lond) 13: 248 S 5 '25

PHOTOTELEGRAPHY
Electric transmission of pictures. il Elec W 83:1223-4 Je 14 '24

PHOTOTELEGRAPHY—*Continued*
Die fortschritte der bildtelegraphie, welche den erfindungen auf dem gebiete der verstärkertechnik zu verdanken sind. A. Korn. Elektrotech Zeit 46:306-7 F 26 '25
Luminotron. T. H. Nakken. il diags Radio N 7:436-7 O '25
Modern speed photography. Aviation 19:554 O 19 '25
Ein neues bildtelegraphisches verfahren. B. Freund. il diags Zeit Ver Deutsch Ing 69: 1267-70 O 3 '25; Abstract. Génie Civil 87: 566 D 26 '25
New method of television. W. G. Walton. il diags Radio N 6:1872-3+ Ap '25
Photo-radiogram. K. M. MacIlvain. il diags Wireless Age 12:20-3 F '25
Photoradiogram system in trans-Atlantic tests. il diags Radio N 6:1385+ F '25
Photoradiograms. K. MacDonald. il Wireless Age 12:7-8 Jl '25
Radio-photo letter. S. R. Winters. il Radio N 6:1386-7 F '25
Radio television; the Mihaly telehor machine. N: Langer. il diags Radio N 5:1570-1+ My '24
See with your radio. W. B. Arvin. il Radio N 7:278+ S '25
Seeing by radio the latest achievement of U.S. engineers. il Dun's Int R 44:57-8 F '25
Sound photographs and their reproduction. T. H. Nakken. il diags Radio N 7:614-15+ N '25
Speeding sales up to 186,000 miles a second. E. L. Cord. System 48:64-5 Jl '25
Story behind the first telephotographed advertisement. Ptr Ink 131:41-2+ Ap 16 '25
Telephoning our press photographs. il Sci Am 131:87+ Ag '24
Telephoning X-ray photographs. il Sci Am 133:56 Jl '25
Telephotograph added to commercial communication facilities. Elec W 86:308 Ag 15 '25
Telephotography in America; developments in the transmission of pictures over telephone lines. il Elec R (Lond) 97:139-41 Jl 24 '25
Television; Mr Campbell Swinton's system. diags Engineer 137:385-6 Ap 11 '24
Television a reality. T. M. Sewards. diags Wireless Age 12:49 My '25
Television for amateurs. S. R. Winters. il Radio N 6:2091 My '25
Transmission of pictures by electricity. il diag Power Pl Eng 28:829-30 Ag 1 '24
Transmission of pictures by telephone. H. E. Ives. il diags W Soc E J 30:211-28 My '25
Transmit photograph 500 miles in 5 minutes by new process. il Dun's Int R 44:51-2 D '24
Vision by radio, radio photographs, radio photograms. C: F. Jenkins. 139p National capital press, inc., Washington, D.C. '25
Wireless television; Baird apparatus. il Engineering 119:661-2 My 29 '25

PHOTOTHERAPY
Artificial sunlight for children. E. C. Dunham. il Nation's Health 7:468-70 Jl '25
Light and calcification of bone. il Nation's Health 7:699-700 O '25
Review of literature on ultra-violet therapy. A. W. Hull. il Gen Elec R 28:790-7 N '25

PHRENOLOGY
Business fakirs. D: H. Colcord. Sales Management 6:777-8+, 1091-2; 7:1363-4 Ap-Je, Ag '24

PHTHALAMIC acids
Preparation of phthalamic acids and their conversion into anthranilic acids. E. Chapman and H: Stephen. Chem Soc J 127:1791-7 Ag '25

PHTHALATES
Instability of phthalate solutions toward the hydrogen electrode. C. Z. Draves and H. V. Tartar. Am Chem Soc J 47:1226-30 My '25

PHTHALEINS
Effect of sulfur on the color of certain phthaleins. H. S. Holt and E. E. Reid. Am Chem Soc J 46:2333-7 O '24
Ortho-cresol-tetrachlorophthalein and some of its derivatives. E. L. Arnold. Am Chem Soc J 46:489-93 F '24
Para-arsonobenzene-azo-phthaleins. W. G. Christiansen. Am Chem Soc J 47:2244-9 Ag '25

PHTHALIC anhydride
Manufacture of anthraquinone derivatives from phthalic anhydride. Color Tr J 16: 52-3 F '25
Preparation of 2-aminoanthraquinone from phthalic anhydride and chlorobenzene. M. Phillips. diags Ind & Eng Chem 17:721-5 Jl '25
Researches on quinazolines; some preliminary observations on the behavior of phthalic anhydride with the reactive methyl groups of certain quinazolines. M. T. Bogert and F. P. Nabenhauer. Am Chem Soc J 46:1932-6 Ag '24
Some substituted ortho-benzoyl-benzoic acids and the corresponding anthraquinones. O. R. Quayle and E. E. Reid. Am Chem Soc J 47:2357-61 S '25

PHTHALIDES
Polyhydroxy and polyhydroxymethyl anthraquinones; syntheses from opianic acid and phenols or cresols. R. A. Jacobson and R. Adams. Am Chem Soc J 47:2011-18 Jl '25

PHYSICAL chemistry. See Chemistry, Physical and theoretical

PHYSICAL education
California correlates physical education with health. H. R. Stolz. il Nation's Health 6:28-9 Ja '24
Encouraging physical education—a sound public policy. H: S. Curtis. il Nation's Health 7:683-5 O '25
Health-educating Detroit children. E. Perrin. il Nation's Health 6:177-8 Mr '24
Health supervision at Wesleyan university. E. Fauver. il Nation's Health 6:452-4+ Jl '24
Physical capacity tests in the administration of physical education. F: R. Rogers. 93p [bibliog. p. 87-93] Teachers college, Columbia univ., New York '25
Three years of physical education in Massachusetts. C. L. Schrader. il Nation's Health 7:602-3 S '25

Advertising
Good-humoring prospects into inquirers; how Bill Brown gets inquiries for advertising booklet. Ptr Ink 131:60+ Ap 23 '25

PHYSICAL examinations
Advisability of a physical examination of all applicants for employment. W. F. McAnally. Ind Management 67:308-9 My '24
Age limits and physical examination of employees. J Elec 54:237-40 Ap 1 '25
Health examinations of college students. F: L. Hoffman. Spectator 115:31-2 Ag 20 '25
Industrial physician and preventive medicine. J: Dodson. J Ind Hygiene 6:193-8; Discussion. 219-21 S '24
Keeping human machines in order. W: Butterworth. Am Ind 24:36-7 My '24
Medical examinations of employees. B. E. Sibley. Elec Ry J 66:649-50 O 10 '25
Medical examination of young persons for factory employment in Great Britain. Int Labour R 10:300-2 Ag '24
Medical survey of employees. A. Coffey. Elec Ry J 64:694 O 18 '24
Need of periodic physical examinations for executives. E. L. Fisk. Safety Eng 47:238-9 My '24
Organization and the health examination movement. J. Hufford. Nation's Health 7:21 Ja '25
Periodical physical examinations on the N.Y.C. Ry Age 79:433-4 S 5 '25
Periodical re-examinations. E. W. Miller. Elec Ry J 64:691-2 O 18 '24
Physical examination for employes. W: M. McLaurine. Textile World 68:488 Jl 25 '25
Physical examination of fifty thousand garment workers. G: M. Price. J Ind Hygiene 5:335-40 Ja '24; Abstract. Monthly Labor R 18:621-2 Mr '24

PHYSICAL examinations—*Continued*
Physical examinations in the state normal school. J. L. Rathbone. Nation's Health 7: 394-5 Je '25
Physical examinations with follow-up work in a department store. C: A. Swan and A. B. Emmons. J Ind Hygiene 5:359-65 F '24
Preventive medicine among medical students and physicians. L. M. Davidoff. Nation's Health 6:692-3 O '24
Re-examination of trainmen. W: L: Weber. Elec Ry J 66:327-8 Ag 29 '25
Sickness and accidents or health and safety. W. M. Holtz. Elec Ry J 66:646-7 O 10 '25
Social workers and the health examination movement. D. B. Armstrong. Nation's Health 6:849-50 D '24

See also Aviators—Physical examination; Eye—Examination; Insurance, Life—Medical examinations; Medical service, Industrial

PHYSICAL geography
Physical geography of Georgia. L. LaForge and others. Georgia Geol S Bul 42:1-189 '25

See also Earth; Earth movements; Earthquakes; Erosion; Geochemistry; Geysers; Glaciers; Meteorology; Ocean; Ocean currents; Rivers; Tides; Volcanoes; Water, Underground; Watersheds

PHYSICAL instruments

See also Balances; Chemical apparatus; Electric apparatus and appliances; Electric instruments; Measuring instruments; Optical instruments; Scientific apparatus and instruments; Scleroscope; Volumetric apparatus

Exhibitions
French physical society's exhibition. il Elec R (Lond) 94:208-9, 249-50, 311-12 F 8-22 '24
Ingenious devices at the recent meeting of the British association for the advancement of science. J: B. C. Kershaw. il Sci Am 130: 36 Ja '24
Physical and optical societies' exhibition. il diags Elec R (Lond) 94:49-50, 111-12, 150-2, 175-6 Ja 11-F 1 '24; Electrician 92:42, 72 Ja 11-18 '24; Engineer 137:12-14 Ja 4 '24; Engineering 117:20-1, 54-6 Ja 4-11 '24
Physical and optical societies' exhibition. il diags Engineer 139:52-4 Ja 9 '25; Engineering 119:50-2, 79-82 Ja 9-16 '25; Electrician 94:66-7, 91-2, 119-20 Ja 16-30 '25; Elec R (Lond) 96:113-15, 153-5, 192-3, 207-9 Ja 16-F 6 '25
Science at the British Empire exhibition. diags Engineering 117:692-4, 773-6; 118:278-9 My 30, Je 13, Ag 29 '24

PHYSICAL laboratories
Organization of physical testing laboratory. il Can Eng 49:141-3 Jl 21 '25

See also Electric laboratories; *also* Great Britain—National physical laboratory, Teddington

PHYSICAL measurements
Application of oscillating valve circuits to the precise measurement of certain physical quantities. J. E. P. Wagstaff. diags Philos Mag 6th ser 47:66-84 Ja '24
Dimensional analysis. P. W. Bridgman. Philos Mag 6th ser 47:481-94 Mr '24; Discussion. E. Buckingham. 48:141-5 Jl '24
Dimensional system of notation. V. Petrovsky. Gen Elec R 28:757-61 N '25
Eddington's natural unit of the field, and possible relations between it and the universal constants of physics. J. Rice. Philos Mag 6th ser 49:457-63 F '25
Theory of measurements. L. Tuttle and J: Satterly. 333p Longmans '25
Ultimate rational units. N. Campbell. Philos Mag 6th ser 47:159-72 Ja '24

See also Electric measurements; Magnetic measurements; Measuring instruments; Pressure gages; Temperature—Measurement

PHYSICAL society of London
Jubilee, London, March 27-29. Electrician 92: 422+ Ap 4 '24

PHYSICIANS
Advertising
If doctors only would—. A. Stote. Ptr Ink 132:97-100 Jl 16 '25
Physicians finance a co-operative campaign. Ptr Ink 132:150+ Ag 27 '25

PHYSICS
College physics. A. W. Duff. 484p Longmans '25
Elements of physics. F. W. Merchant and C. A. Chant. 546p Holt '24
Everyday physics. H. E. Hadley. 474p Macmillan '24
General physics and its application to industry and everyday life. E. S. Ferry. 2d ed., rev. 807p Wiley '25
Household physics. W. G. Whitman. 437p Wiley '24
Influence of industrial research on progress in physics. C: A. Parsons. Elec R (Lond) 94:1039 Je 27 '24
Interrelations of modern physics and modern psychology. L. T. Troland. J Fr Inst 197: 479-504 Ap '24
Interrelations of modern physics and modern psychology; a reply to L. T. Troland. N. Campbell. J Fr Inst 198:817-26 D '24
Introduction to theoretical physics. A. Haas. 346p Van Nostrand '24
Lehrbuch der physik in elementarer darstellung. A. Berliner. 3d ed. 645p J. Springer, Berlin '24
Matter and change. W: C. D. Whetham. 280p Macmillan '24
The new physics. A. E. Haas. 165p Dutton '23
Physicist in metallurgy; abstracts. C. H. Desch. Engineering 117:212-13 F 15 '24; Elec R (Lond) 94:434 Mr 14 '24
Physicist in the textile industries. A. E. Oxley. Engineering 116:627-8 N 16 '23
Physics: a textbook for colleges. O. M. Stewart. 723p Ginn '24
Physics for technical students. W. B. Anderson. 2d ed., rev. and enl. McGraw-Hill '25
Physics in everyday life. W: D. Henderson. 573p Lyons and Carnahan, New York '25
Physics in industry. A. Barr and others. Oxford '23
Physics of air for furnacemen. T: Newton. Sheet Metal Worker 14:987-8; 15:7-8+ Ja 18-F 1 '24
Physik. E. Lecher. 2d ed., rev. and enl. 849p B. G. Teubner, Leipzig and Berlin '25
Problems in general physics for college courses. M. Masius. 2d ed., rev. & enl. 154p Blakiston '24
Recent development of physical science. W: C. D. Wetham. 5th ed. 313p John Murray, London; Blakiston, Philadelphia '24
Science at the British Empire exhibition. Engineering 117:580-2 My 2 '24
Survey of physics. M. K: E. L. Planck. 184p Methuen & co., ltd., London; Dutton, N.Y. '25
Textbook of intermediate physics. H. Moore. 824p Dutton '23
Textbook of modern physics. L. D. Weld and F: Palmer, jr. 737p Blakiston '25
Text-book of physics. L: B. Spinney. 3d ed. 635p Macmillan '25
Traité élémentaire de physique. A. Ganot. 27 ed., rev. 1175p Hachette, Paris '23

See also Aberration; Atmosphere; Atoms; Ballistics; Biological physics; Capillarity; Chemical elements; Chemistry, Physical and theoretical; Compressibility; Diffusion; Dimensional analysis; Dynamics; Einstein theory; Elasticity; Electricity; Electromagnetic theory; Electrons; Equilibrium; Ether (of space); Evaporation; Expansion (heat); Fluids; Fluorescence; Force and energy; Free energy; Friction; Gases; Geodynamics; Geophysics; Gravitation; Heat; Heat conduction; Heat convection; Heat radiation; Heat transmission; Hydraulics; Ionization, Gaseous; Ions; Kinematics; Latent heat; Light; Liquids; Magnetism; Mathematical physics; Matter; Mechanical movements; Mechanics; Meteorology; Molecules; Moments of inertia; Optics; Oscillations; Par-

PHYSICS—*Continued*
ticles; Physical instruments; Physical measurements; Plasticity; Porosity; Precession; Pressure; Quantum theory; Radiation; Radioactivity; Reflection (optics); Refractive index; Relativity (physics); Solids; Sound; Steam; Strains and stresses; Temperature; Thermodynamics; Thermometers and thermometry; Vibration; Viscosity; Weights and measures

Bibliography

Classified list of published bibliographies in physics, 1910-1922. K. K. Darrow, comp. Nat Research Council Bul v 8, pt 5:1-102 Jl '24

Dictionaries

Dictionary of applied physics. R: T. Glazebrook, ed. 5v. Macmillan '22-'23
Physikalisches handwörterbuch, hrsg. von A. Berliner und K. Scheel. 903p J. Springer, Berlin '24

Exhibitions

L'exposition de physique. il diag Chimie & Ind 11:sup 20-44 Mr '24

Graphic methods

Physik in graphischen darstellungen. F. Auerbach. 2d ed. 29p,257pl B. G. Teubner, Leipzig, Berlin '25

Laboratory manuals

Advanced practical physics for students. B. L. Worsnop and H. T. Flint. 640p Dutton '23
Laboratory experiments in physics. E. R. Drew and H. W. Farwell. 143p Century co. '24
Laboratory manual of experiments in physics. L. R. Ingersoll. 220p McGraw-Hill '25
Laboratory physics. E. H. Johnson. 322p Harcourt '23
Laboratory problems in physics. A. L. Cavanagh and C. M. Westcott. 127p Ginn '24

Terminology

See Mechanics—Terminology; Physics—Dictionaries

PHYSICS, Biological. See Biological physics

PHYSIOGNOMY
The right job. K. M. H. Blackford and A. Newcomb. 603p 2v Doubleday '24

PHYSIOLOGICAL apparatus
Vibration recorder for pathological analyses. C. I. Hall. il Am Inst E E J 44:829-32 Ag '25

See also Oxy-calorimeter

PHYSIOLOGICAL chemistry
Applied chemistry for nurses. S. Goostray and W. G. Karr. 231p Macmillan '24
Fundamentals of chemistry. L. J. Bogert. 324p W. B. Saunders co., Phila. '24
Handbuch der physiologisch- und pathologisch-chemischen analyse. H. Thierfelder. 9th ed. 1004p J. Springer, Berlin '24
Intermediate textbook of physiological chemistry with experiments. C. J. V. Pettibone. 3d ed. 404p [bibliog. p. 389-93] C. V. Mosby co., St Louis '25
Physiological and clinical chemistry. W: A. Pearson and J. S. Hepburn. 306p Lea & Febiger, Philadelphia and New York '25
Physiological chemistry. A. P. Mathews. 4th ed. 1233p W. Wood & co., New York '25

See also Alcohol in the body; Barbituric acid; Biological chemistry; Caproic acid; Carbohydrates; Chemistry, Medical and pharmaceutical; Creatine; Dental chemistry; Diastase; Enzymes; Muscles; Osmosis; Oxidation, Physiological; Pancreas; Pituitary body; Poisons; Poisons, Industrial; Proteins; Urine; Vitamins

Laboratory manuals

Laboratory manual of biological chemistry. O: K. Folin. 4th ed. 308p Appleton '25
Laboratory manual of physiological chemistry. C. J. Farmer. 143p Northwestern univ., Evanston, Ill. '23
Laboratory manual of physiological chemistry. E. W: Rockwood and P. R. Rockwood. 5th ed., rev. & enl. 413p F. A. Davis co., Phila. '24

PHYSIOLOGICAL oxidation. See Oxidation, Physiological

PHYSIOTHERAPY. See Therapeutics, Physiological

PHYSOSTIGMINE
Physostigmine (eserine). E. Stedman and G: Barger. Chem Soc J 127:247-58 Ja '25
Physostigmine (eserine); the synthesis of physostigmol ethyl ether. E. Stedman. Chem Soc J 125:1373-6 Je '24

PHYTOSTEROLS
Phytosterols of the endosperm of corn. R. J. Anderson. Am Chem Soc J 46:1450-60 Je '24
Phytosterols of wheat endosperm. R. J. Anderson and F. P. Nabenhauer. Am Chem Soc J 46:1717-21 Jl '24

PIANO benches
Piano benches and stools. Survey of Cur Business 34:57 Je '24

PIANO factories
Certain limitations in the application of scientific management. Harvard Business R 4: 106-11 O '25

PIANO players, Mechanical
Piano playing mechanisms. W: B. White. 240p E: L. Bill, inc., 383 Madison av., New York '25

PIANOS
Do the plans provide for musical instruments? G. D. Stodola. Arch & Bldg 56:118-19 D '24
Doubling up the piano keyboard to halve its length. il Sci Am 130:37-8 Ja '24
Elastic impact of pianoforte hammer. S. Bhargava and R. N. Ghosh. Philos Mag 6th ser 47:1141-8, pl 8; 49:121-9 Je '24, Ja '25
Partials of a pianoforte string struck by an electric hammer. R. N. Ghosh. Phys R 24: 456-60 O '24

PICKLING (metals)
Bright dips and pickles. G: B. Hogaboom. Metal Ind 23:195 My '25
Designing the pickling department for economy in maintenance. C. A. Crawford. il diag Iron Tr R 76:875-7, 935-7, 1003-6 Ap 2-16 '25
Formaldehyde to increase the efficiency of pickling baths in steel mill practice; patent. Chem Age 32:100 F '24
Pickling; or, the action of acid solutions on mild steel and the diffusion of hydrogen through the metal. C. A. Edwards. bibliog diags Iron & Steel Inst J 110:9-44, pl 1-3a no 2 '24; Same abr. Blast F & Steel Pl 13: 79-83, 195-7 F, My '25; Excerpts. Engineer 138:298 S 12 '24; Discussion. Iron & Steel Inst J 110:45-60 no 2 '24; Engineer 138:298-9 S 12 '24; Engineering 118:365-6 S 12 '24
Pickling solutions for various metals. G. A. Drysdale. Foundry 52:197-8 Mr 1 '24
Recovering pickling acid waste. R. M. Crawford. Iron Tr R 75:948 O 9 '24
Using gas for drying pickled sheets. W. A. Darrah. Iron Tr R 74:1115-16 Ap 24 '24

See also Pickling tanks

Bibliography

Pickling of iron and steel; a bibliography. V: S. Polansky. Blast F & Steel Pl 12:326-8, 368-71, 431-4 Jl-S '24; Reprinted by Carnegie library, Pittsburgh

PICKLING tanks
Designing the pickling department for economy in maintenance. C. A. Crawford. il diag Iron Tr R 76:875-7, 935-7, 1003-6 Ap 2-16 '25

Transportation

Unusually large pickling tank is shipped set-up. il Iron Tr R 76:1127 Ap 30 '25

PICRIC acid
Colorimetric determination of carbohydrates in plants by the picric acid reduction method; the estimation of reducing sugars and sucrose. W. Thomas and R. A. Dutcher. Am Chem Soc J 46:1662-9 Jl '24

PICRIC acid—*Continued*
Heats of fusion of trinitrotoluene, tetryl and picric acid. W: H. Rinkenbach and R. E. Hall. Am Chem Soc J 46:2637-9 D '24
History of picric acid. A. Marshall. bibliog Soc Chem Ind J (Chem & Ind) 44:4-5 Ja 2 '25
Manufacture of picric acid. H. S. Reed. diag Ind & Eng Chem 16:72-4 Ja '24
Preparation of picric acid from phenol. F. Olsen and J. C. Goldstein. il Ind & Eng Chem 16:66-71 Ja '24
Specific heats of trinitrotoluene, tetryl, picric acid and their molecular complexes. C. A. Taylor and W: H. Rinkenbach. Am Chem Soc J 46:1504-10 Je '24

PICRYL chloride
Isomerism of the oximes; action of picryl chloride and of 2:4-dinitrochlorobenzene on aldoximes. O. L. Brady and L: Klein. Chem Soc J 127:844-52 Ap '25

PICTURES
Short cut lessons on interior decoration for builders. il Bldg Age 46:58 O; 101 N; 123 D '24

See also Advertisements, Pictorial; Drawings; Etchings

PIE
Apple, mince or peach? making the American dessert with gas. H. S. Christman. il Am Gas J 122:505+ Je 13 '25

PIECE work
After all, is piece-work the best? E. P. Teel. Factory 35:387+ S '25
Close attention to details is needed in establishing piece work. H. Tipper. Automotive Ind 50:612-13 Mr 13 '24
Differential piecework; an original system of payment. Automobile Eng 15:351 O '25
Making piece rates on spoolers. Textile World 65:4089+ Je 21 '24
Management difficulties in small factories, and their solution; piece work rates. H. W. Ross. Cassier's Ind Management 12:162-3 F '25
Now we have no more piece-work complaints. U. L. Harmon. Factory 34:762-3 My '25
Obsolescence of piece work. C. Goodrich. Univ J of Business 2:328-30 Je '24
Piece-work agreement with shop men, New York Central lines. Ry R 73:754-5 N 24 '23
Piece work not always advantageous. H. F. Dingledine. Brick & Clay Rec 67:269 Ag 18 '25
Piece work superior to differential premium wage payment. L: Ruthenberg. Automotive Ind 49:1039 N 22 '23
Setting and maintaining piece rates. F. C. Hudson. Am Mach 62:566 Ap 9 '25
Starting piece work in knitting. Textile World 65:3307+ My 17 '24
Unit system for freight car repairs. J. McClennan. il Ry Mech Eng 98:419-20 Jl '24

See also Bonus system; Rate setting; Time study; Wage payment plans; Wages

PIEDMONT and Northern railway
Piedmont and Northern railway system. H. C. Hickock. il map Elec J 22:485-9 O '25

PIERCE, Dana, 1871-
Portrait. Elec W 82:1050 N 24 '23

PIERCE-ARROW finance corporation
Annual report, 1st, for year ended Dec. 31, 1924. Comm & Fin Chr 120:1489 Mr 21 '25

PIERCE-ARROW motor car company
Annual report, 8th, for year ended Dec. 31, 1924. Comm & Fin Chr 120:1488-9 Mr 21 '25

PIERS
Les agrandissements du port de La Rochelle. A. Pawlowski. il diags maps Génie Civil 85:265-9 S 27 '24
Better pier sheds are now needed. C. E. Hicks. il diags Marine R 55:86-9 Mr '25
Port of Manila opens large shipping pier. E. C. Earle. il diag plan Eng N 94:716-20, 756-61 Ap 30-My 7 '25
Report of the A.S.C.E. special committee appointed to consider the report made to the National fire protection association on the fire hazard of docks, piers, and wharves. Am Soc C E Pro 50:[Soc aff]272-85 Mr '24
What are you doing to prevent fire on your piers? H. W. Ordeman. il Marine R 55:420-1 N '25

See also Coal piers; Freight handling; Wharves

PIERS, Bridge. See Bridges—Foundations and piers

PIERS, Concrete
Bremerton navy yard pier built of precast concrete. W. F. Way. il diags Eng N 92: 436-40 Mr 13 '24
Construction of the Ballantyne pier, Vancouver. A. L. Harvey. il Can Eng 47:249-52 Ag 19 '24
Mobile tower chuting plant builds concrete pier at Havana. il diags Eng N 93:52-4 Jl 10 '24
New concrete pier at Bremerton navy yard; economy of combined precast and poured concrete. J. B. Walker. il diag Sci Am 132: 233-4 Ap '25
Pile casting methods for concrete pier at Havana. J: S. Vedoe. diags plan Eng N 93:785-8 N 13 '24
Special features in construction of new pier. C. R. Wilson. il diags Concrete 25:9-12 Jl '24

PIERS (foundations)
Bell-base cylinder piers for a heavy warehouse. R. H. Chambers. il diags plans Eng N 92:287-9 F 14 '24
Foundation cylinders concreted by pneumatic method. W. F. Way. il diags Eng N 92:479-80 Mr 20 '24
Slim pneumatic caissons penetrate stone-filled crib. C. S. Rindsfoos. diag Eng N 92:936 My 29 '24
Well-drilling methods applied to sinking foundation piers. Eng N 95:106 Jl 16 '25

See also Bridges—Foundations and piers

Testing
Cinder block efficiency in pier tests. il Concrete 25:35-6 Jl '24

PIEZOELECTRICITY
Adiabatic and isothermal piezo-electric constants of tourmaline. D: A. Keys. Philos Mag 6th ser 46:999-1001 N '23
Piezo-electric oscillograph. A. B. Wood. diags Philos Mag 6th ser 50:631-7, pl 21-2 S '25
Piezo-electric oscillograph. C. E. Wynn-Williams. diags Philos Mag 6th ser 49:289-313, pl 5 F '25
Relation between the mechanical and piezo-electrical properties of a Rochelle salt crystal. F. C. Isely. diags Phys R 24:569-74 N '24

See also Oscillators, Crystal

PIG iron
Bad castings and furnace scrap. H. H. Hopkins. Iron Age 116:1252-3 N 5 '25; Discussion. R. Moldenke. 116:1399 N 19 '25
Coke and charcoal irons differ. W. E. Jominy. Iron Tr R 75:1023-5+ O 16 '24
53 years of pig iron imports, 1871-1923. Iron Age 113:21 Ja 3 '24
Heavy pig iron imports. Iron Age 115:739 Mr 5 '25
Imports of finished steel decline; more foreign pig iron competition likely. L: H. Haney. Iron Age 116:1266+ N 5 '25
Iron and steel development of the South. B. E. V. Luty. il Manuf Rec 86:289-94 pt 2 D 11 '24
Iron industry and the business cycle; pig iron production and prices, 1901 to 1924. H. B. Vanderblue and W: L. Crum. Iron Age 115:896-9 Mr 26 '25
Iron output first half 1925. Iron Tr R 77:470-1 Ag 20 '25; Iron Age 116:491 Ag 20 '25
Making pig iron from Utah ore. G: J. Young. il Eng & Min J 119:209-10 Ja 31 '25; Same. Blast F & Steel Pl 13:123-5 Mr '25
Marketing of iron ore and pig iron. B. E. V. Luty. il Eng & Min J 118:1005-10 D 27 '24

PIG iron—*Continued*
Metalloids in basic pig iron in basic open-hearth practice. C. L. Kinney, jr. Blast F & Steel Pl 12:45-50+, 150-3, 220-4+ Ja, Mr, My '24; Abstract. Iron Age 113:718 Mr 6 '24
Money rates and pig iron production 1877-1924. charts (supp) R Econ Statis 7:44-7 Ja '25
Pig iron production. Published in weekly numbers of Commercial and financial chronicle
Pig iron production first half of 1924. Iron Age 114:385 Ag 14 '24; Same. Iron Tr R 75: 432 Ag 14 '24
Pig iron sales slip custom in 1870. Iron Tr R 75:102 Jl 10 '24
Pig iron, steel and the trend of business. B: Baker. Annalist 23:708 Je 23 '24
Pig iron trend on Eastern seaboard. H. B. Vanderblue and W: L. Crum. Iron Age 116: 210-12+ Jl 23 '25
Points in buying pig iron. E. J. Lowry. Foundry 52:509 Jl 1 '24
Production of pig iron in the United States in 1924; tables. Iron Age 115:993 Ap 2 '25; Excerpts. Iron Tr R 76:924 Ap 2 '25
Record production of pig iron in United States in 1923. Iron Age 113:853 Mr 20 '24; Iron Tr R 74:781 Mr 20 '24
Southern pig iron finds itself. G: H. Manlove. Iron Tr R 75:353-4 Ag 7 '24

See also Cast iron; Charcoal iron; Iron; Iron founding

Costs

Increase in pig iron costs in decade. R: Peters, jr. Iron Age 113:301-4 Ja 24 '24
Raw materials affect pig iron costs. T: T. Read. Iron Tr R 74:1424-5 My 29 '24; Same. Iron Age 113:1698-9 Je 5 '24
Transportation and pig iron costs. P. M. Tyler. Iron Age 113:54-6 Ja 3 '24

Prices

Finished steel market vs. pig iron. Iron Age 113:65-6 Ja 3 '24
Fluctuations in prices of pig iron and finished steel since 1904; chart. Iron Age 113:79-80 Ja 3 '24
Fluctuations in prices of pig iron and finished steel—thirteen years, 1912-1924; chart. Iron Age 115:69 Ja 1 '25
Iron output and price related. L. P. Ayres. diag Iron Tr R 75:1232-3 N 6 '24
Pig iron. Iron Tr R 76:92-5 Ja 1 '25
26 years of fluctuations in prices of pig iron, and semi-finished and finished steel and of steel rails. Iron Age 113:99-100 Ja 3 '24

Specifications

Government will specify pig iron by rule. Iron Tr R 74:1366 My 22 '24

Statistics

1923 iron output a new record. Iron Tr R 74: 79, 89 Ja 3 '24
Pig iron. Survey of Cur Business 30:70-1 F '24 [continued quarterly]
Pig iron production in 1923. Iron Age 115:631 F 26 '25

Transportation

Pig iron freight rates. Iron Age 116:477 Ag 20 '25

PIGMENTS
Artists' colors. P. May. Soc Chem Ind J (Chem & Ind) 43:82-5 Ja 25 '24
Artists' pigments; their chemical and physical properties. F: W. Weber. 228p Van Nostrand '23
Chrome pigments; some applications and properties. W. J. Palmer. Chem Age (Lond) 12:274 Mr 21 '25
Coloured pigments for paints. O. Wilkins. Chem Age (Lond) 10:355 Ap 5 '24
Colours and varnishes. C: Coffignier. 258p Van Nostrand '25
Effect of iron oxide pigments on rate of oxidation of linseed oils. F. H. Rhodes, C. R. Burr and P. A. Webster. Ind & Eng Chem 16:960-2 S '24
Lead and its compounds. R. L. Hallett. Chemicals 24:11-12 Ag 31 '25
Microchemistry of white pigments and inerts as they occur mixed in paints. H: Green. diags Ind & Eng Chem 16:677-80 Jl '24
More complete evaluation of the pigment reënforcement of rubber. W: B. Wiegand. Ind & Eng Chem 17:939-41 S '25; Same. India Rubber W 78:14-15 O '25
Natural paint pigments—ochers and oxides. H. G. Raggatt. Eng & Min J 120:139 Jl 25 '25
Observations of spectro-photometric measurements of paint vehicles and pigments in the ultra-violet. G: F. A. Stutz. J Fr Inst 200:87-102 Jl '25
Oil absorption of pigments. J. H. Calbeck. bibliog il Chem & Met Eng 31:377-82 S 8 '24
Oils and pigments used in car painting. H. G. Noble. Elec Ry J 65:939-40 Je 13 '25
Physical and chemical examination of paints, varnishes, and colors. H: A. Gardner. 2d ed. 376p Institute of paint and varnish research, Washington '25
Pigments; their properties and tests. 68p Van Nostrand '24
Plant pigments. I. M. Heilbron. Soc Chem Ind J 43:89-93 Ap 11 '24
Preliminary experiments on feather pigments. W. D. Bancroft. J Phys Chem 28: 1147-50 N '24
Production of azo pigment dyes directly in oils. Color Tr J 13:195 D '23
Size of particles with special reference to pigments. C. A. Klein and J. Parrish. Chem Age (Lond) 10:195-6 F 23 '24

See also Antimony oxides; Antimony sulfide; Blue lead; Chrome green; Dyes and dyeing; Lead chromate; Lithopone; Paint; Prussian blue; Pyocyanine; Red lead; Titanium oxides; Titanium white; White lead

Analysis

Methods of analysis and reports of collaborators on the analysis of titanium pigments. Am Soc T M Pro 24 pt 1:443-51 '24
Standard methods of routine analysis of yellow and orange pigments containing chromium compounds, blue pigments and chrome green. Am Soc T M Standards 1923:75-86

PILE drivers
Brownhoist railroad pile driver. il Ry R 74: 535-6 Mr 15 '24; Ry Age 76:757-8 Mr 15 '24
Pile driver operated by compressed air. S. G. Roberts. il Eng & Contr (Bldgs) 62: 479-80 Ag 27 '24
Versatile pile driver. il Sci Am 131:317 N '24

PILES and pile driving
Building a pile foundation for a marshland factory; Western Electric co. plant near Newark. R. L. Hart. il diags map Eng N 93:208-11 Ag 7 '24
Comparative tests on piles basis for selecting best type. Eng N 94:446 Mr 12 '25
Composite wood and concrete pile rises above water line. il diags Eng N 94:186-8 Ja 29 '25
Concrete jacketed piles on the Pacific coast. F. G. White. Eng N 95:420-1 S 10 '25
Cutting piling under water—review of various methods. S: P. Baird. Eng N 95:601-2 O 8 '25
Deep water pile driving for Seattle bridge piers. il diag Eng N 91:1022 D 20 '23
Driving piles for Hudson river tunnel. il diags Can Eng 46:495-8 My 6 '24
Effect of flowing water on the stability of sand. C. M. Daily. Eng N 94:649 Ap 16 '25
Graphical solution of Engineering News formula for bearing capacity of piles. P. K. Schuyler. chart Eng & Contr (R & S) 61: 1246-7 Je 4 '24
Heavy hammer needed in driving large piles. J. N. Laycock. Eng N 92:890-1 My 22 '24
Marine piling investigations of the National research council. W: F. Clapp. il diags Boston Soc C E J 11:417-25; Discussion. 426-42 N '24
New method of driving piles in deep water. C. S. Boardman. il Manuf Rec 86:102-3 S 4 '24
New method of driving piles under water. R. F. Mundorff. il Ry R 75:370-1 S 6 '24

PILES and pile driving—*Continued*
Rational pile-driving formula and its application in piling practice explained. A. Hiley. Engineering 119:657-8, 721-2 My 29, Je 12 '25
Report of sub-committee on piling. Am Soc C E Pro 51:896-7 My '25
Results of experiment of piling specimens against attack by marine borers. J. D. Maclean. il Eng & Contr (Ry) 61:626-34 Mr 19 '24
Salvage and use of old creosoted piles. S: Young. Eng & Contr (Ry) 62:399-400 Ag 20 '24
Seven pile dikes protect Missouri river bank against erosion. F. Y. Parker. il Eng N 95:519-20 S 24 '25
Small shovel as pile driver. il Eng & Contr (G C) 63:1311 Je 17 '25
Some notes on pile foundations. G: A. McKay. Eng & Contr (Bldgs) 60:1124-9 N 28 '23
Subaqueous pile driving. H. G. McCormick. Eng & Contr (G C) 63:1092 My 20 '25
Subaqueous pile driving at Portland, Ore. diag Eng N 95:53-4 Jl 9 '25
Substructure for $50,000,000 plant in a bog. F. W. Skinner. il diag Eng & Contr (G C) 63:1321-4 Je 17 '25
Teredo destroys piles in 2½ months. il Eng N 94:189 Ja 29 '25
Ultimate supporting power and pulling resistance of piles placed hydraulically. R. P. V. Marquardsen. diags Eng & Contr (Bldgs) 61:885-93 Ap 23 '24
Underpinning Trinity church with pipe piles. H. de B. Parsons. il diags plan Eng N 95: 668-70 O 22 '25
Wood and reinforced concrete combination pile. H: J. Harms. il Concrete 25:172-4+ N '24
Wooden piles badly broomed at splices. il Eng N 95:263 Ag 13 '25

See also Breakwaters; Cofferdams; Concrete piling; Foundations; Piers; Piers (foundations); Pile drivers; Sheet piling; Wharves

PILLSBURY, Charles A.
Business principles of the founder of the Pillsbury flour mills company. J: S. Pillsbury. por System 47:624-5 My '25

PILOCARPIDINE
Relation of pilocarpidine to pilocarpine; synthesis of 1:4- and 1:5-dimethylglyoxalines. R: Burtles, F. L. Pyman and J. Roylance. Chem Soc J 127:581-91 Mr '25

PILOCARPINE
Relation of pilocarpidine to pilocarpine; synthesis of 1:4- and 1:5-dimethylglyoxalines. R: Burtles, F. L. Pyman and J. Roylance. Chem Soc J 127:581-91 Mr '25

PILOT guides
Ocean passages for the world. B. T. Somerville. 585p Gt. Brit. Hydrographic office, London '23

Bibliography

General catalogue of mariners' charts and books, cor. to January 1, 1925. 230p United States. Hydrographic office, Washington, D.C. '25

PILOTS and pilotage
Safety depends on good pilots. A. H. Jansson. il Marine R 55:247-8 Jl '25

PILOTS' associations
Development and operation of pilots' associations at representative ports. F. E. Parker. Monthly Labor R 19:960-80 N '24

PINANE
Pinane. A. Lipp. Chem Soc J 124 pt 1:1214-15 D '23

PINE
American woods in France. A. H. Oxholm. U S Bur For & Dom Com Trade Information Bul 323:1-10 '25
Liquid sulphur dioxide process for sulphite pulp; its application to longleaf pine. R. H. McKee and D. E. Cable. diag Paper Tr J 78:53-6 Mr 6 '24
Making paper from pine stumps. R. H. Stevens. il Paper 34:901-3 S 4 '24
Profitable utilization of pine stumps in paper manufacturing. W. D. Robinson. Manuf Rec 85:81-2 My 15 '24
Romance of southern pine. E. Dionne. Manuf Rec 85:81-2 Ja 3; 95-6 Ja 10 '24
Southern timber resources in relation to paper making. A. Cary. il Tech Assn Pa ser 7: 87-90 Je '24; Same. Paper Tr J 78:57-60 My 8 '24
Southern yellow pine. Eng & Contr (Bldgs) 63:1368-70 Je 24 '25

PINE institute of America
Naval stores and timber land interests form a great institute. T: Gamble. Manuf Rec 87: 95-6 Mr 5 '25
Pine institute of America—a conception of far-reaching importance to the South and to the nation. Manuf Rec 87:65-6 F 12 '25
Progress. Manuf Rec 87:85 Ap 23 '25

PINENE
Chlorohydrins of β-pinene. G: G. Henderson and C. A. Kerr. Chem Soc J 125:102-6 Ja '24
Some oxidation products of β-pinene. G: G. Henderson and D. Chisholm. Chem Soc J 125:107-13 Ja '24

PINEY Woods school
Concrete construction in Piney Woods school. il Concrete 23:197-8 N '23

PINIONS. See Gearing

PINS

Manufacture

British wire-drawing and wire-working machinery. il Engineer 138:520-1 N 7 '24
Large uses of steel in small ways; pins. il Iron Tr R 73:1555-6 D 6 '23

PIONEER suspender company
Past advertising helps determine sale price of good-will and trade-marks; Pioneer suspender company will extend outlets of sale of Kazoo waists. Ptr Ink 126:10+ Ja 31 '24

PIPE. See Pipes

PIPE bending
Federal bending machine, type F. il Am Mach 62:825-6 My 21 '25
Horizontal pipe bender. il Iron Age 116:614 S 3 '25
Large pipe bending machine. il Iron Age 115: 990 Ap 2 '25
Pedrick motor-driven pipe bender. il Mach 32:71 S '25; Ry Mech Eng 99:794 D '25

See also Bending

PIPE bends
Elasticity of pipe bends. S. Crocker and S. S. Sanford. Mech Eng 45:159-64 Mr '23; Discussion. Mech Eng 45:164; 46:159-60, 563-4 Mr '23, Mr, S '24
Offset bend factoring. D. Gerber. diag Power Pl Eng 29:441 Ap 15 '25
Pipe bending chart for rubber engineers. W. F. Schaphorst. India Rubber W 71:148 D '24

PIPE coating
Acid in soils responsible for pipe protection. P. Wagner. il Nat Pet N 17:76 Je 24 '25
Applying protective coatings to lapwelded pipe. M. C. Cockshott. diag Chem & Met Eng 32:453-4 Ap '25
Asphaltic coat protects steel pipe. il Iron Tr R 77:489+ Ag 27 '25

PIPE couplings. See Pipe joints

PIPE covering machines
Pabco portable pipe covering machine. R. S. Fuller. Am Gas Assn Technical sec v 6: 1237-9 '24
Portable pipe-wrapping machine aids maintenance. il Management & Adm 9:116 F '25; Same. Eng & Contr (W W) 63:1278 Je 10 '25
Portable pipe wrapping machine for gas pipes. C: W. Geiger. il Am Gas J 119:533+ N 10 '23

PIPE coverings
Principles of design in furnace heating; effect of insulation of warm-air leader pipes upon plant operation. Sheet Metal Worker 15: 830-3, 867-9+ N 21-D 5 '24
Specifications for pipe coverings. H. E. Collins. Management & Adm 8:503-6 N '24
Value of insulating hot water circulating lines. Heat & Ven 21:72-3 S '24

See also Pipe covering machines; Steam pipe coverings

PIPE cutting
Cutting large size cast iron pipe. W. M. Rapp. diags Eng & Contr (W W) 63:300 F 11 '25

PIPE cutting machines
Davis automatic pipe cutter. il Mach 30:564 Mr '24
Roller pipe cutting machine. il Elec Ry J 62: 984 D 8 '23

PIPE elbows
Heating, ventilating and blower fitting. W: Neubecker. diags Sheet Metal Worker 15: 996-7; 16:114, 237 Ja 16, Mr 27, My 8 '25
Irregularly tapering elbow. diags plan Sheet Metal Worker 16:238-9+ My 8 '25
Pattern for a helical or winding elbow. W: Neubecker. diags plans Sheet Metal Worker 15:458-9+ Jl 4 '24

PIPE fitting
Pipe and pipe-fitting facts. W. F. Schaphorst. Eng & Min J 118:938-9 D 13 '24
Railway pipe fitter's handbook. F. J. Borer. 223p Simmons-Boardman pub. co., New York '25
Tests of loss of head in standard elbows and tees. L. Perry. Eng N 92:940 My 29 '24

See also Gas fitting; Hot water heating; Pipe hangers; Pipe joints; Plumbing; Steam pipes

PIPE fittings
Brass and us and profit. H. A. Call. plan Sanitary & Heat Eng 101:1-3, 72-4+, 139-140+, 200-2 Ja 11, F 8, Mr 7, Ap 4 '24
Du-ex expansion nipple. il diags Engineering 119:395 Mr 27 '25; Engineer 139:362-3 Mr 27 '25; Gas J (Lond) 170:469 My 13 '25
Handy gage for measuring pipe fittings. T. Winslow. il Power Pl Eng 28:869 Ag 15 '24
Heating, ventilating and blower fitting. W: Neubecker. diags Sheet Metal Worker 16: 114, 237 Mr 27, My 8 '25
Malleable fittings. R. M. Starbuck. plans Dom Eng 106:26-8+ Ja 26; 22-6 Mr 29 '24
Nipples. H. A. Call. Sanitary & Heat Eng 102: 366-7 N 28 '24
Steam-boiler fittings in Holland. H. W. Los. diag Power 59:734 My 6 '24
Structural pipe fittings for variety of uses. il Iron Age 113:1853 Je 26 '24
Twisted compound, double curved fitting. W: Neubecker. il diags Sheet Metal Worker 15:1-3+ F 1 '24; Discussion. 15:158-9 Mr 28 '24
Universal estimate sheet. R. M. Starbuck. Dom Eng 105:624-7 D 29 '23

See also Furnaces, Warm air—Pipes and fittings; Pipe flanges

Manufacture

Methods of machining pipe fittings. J. V. Romig. diags Am Mach 60:481 Mr 27 '24; Discussion. J. McIntosh. 60:785 My 22 '24
Pattern for a three-branched fitting. W: Neubecker. diags Sheet Metal Worker 15:896-9 D 19 '24
Patterns for a special, curved fitting. W: Neubecker. diags Sheet Metal Worker 16: 160-2+ Ap 10 '25

Prices

Estimating for the plumber. R. M. Starbuck. Dom Eng 105:466-70 D 8 '23

Specifications

Compression-type fuel and lubrication pipe-fittings proposed by parts and fittings division of the S.A.E. diags Soc Auto Eng J 14:47-8 Ja '24
Specifications for pipe fittings. H. E. Collins. diag Management & Adm 8:83-7 Jl '24

Standards

Proposed American standards for malleable and cast-iron screwed fittings. Mech Eng 47:117-18 F '25
Standards for pipe fittings at higher pressures and temperature. diags Power 58:921-2 D 4 '23; Correction. 59:465 Mr 18 '24

PIPE flanges
Tool and flanging collars on copper pipe. E. A. Miller. diags Ry Mech Eng 98:47 Ja '24

Standards

Proposed American standards for malleable and cast-iron screwed fittings. Mech Eng 47: 117-18 F '25

PIPE hangers
Spacing of pipe supports and hangers. F. H. Smith. diags Blast F & Steel Pl 12:51-3+ Ja '24

PIPE industry and trade
Increase in winter buying of cast-iron pipe. R. R. Silver. Eng N 92:468 Mr 13 '24

PIPE joints
Airtight joint and plunger safeguard gas main crossing lift-span bridge. il diags Eng N 95: 392-3 S 3 '25
Brazed joints for cast-iron gas mains. A. F. Bridge and M. R. Thompson. il Gas Age 52: 699-703 D 8 '23
Brazing pipe joints. il Sanitary & Heat Eng 101:338-9 My 30 '24
Bronze welded cast iron pipe joints are practicable. H. Y. Carson. il Gas Age 53:757-60 My 31 '24; Abstract. Foundry 52:469-70 Je 15 '24; Excerpt. Iron Tr R 75:97-8 Jl 10 '24
Bronze welded joints for cast iron pipes. il Gas Age 54:823-5+ D 13 '24; Abstract. Gas J (Lond) 169:140 Ja 21 '25
Bronze welding procedure for cast-iron pipe. Eng N 95:566 O 1 '25
Catechism of central station gas engineering in the United States. diags Am Gas J 121: 861-4 S 20 '24
Cement-joint. W. Volk. il Am Gas J 122:270 Mr 28 '25
Cement joints vs. lead joints. W. W. Monk. Am Inst E E J 43:790 S '24
Cofferdam used in bell holes for jointing pipe in wet trench. S: P. Baird. diag Eng N 94: 902 My 28 '25
Double seam versus Pittsburgh seam. diags Sheet Metal Worker 15:495-6 Jl 18 '24
Expansion joints absorb pipe movement. il Power Pl Eng 29:586-9 Je 1 '25
Flexible joint avoids close fitting in pipe work. diag Marine Eng 30:458 Ag '25
Further experiments and experiences in connection with rubber as a jointing material for gas-mains. W. Hole. il diags Gas J (Lond) 166:899-901 Je 25 '24
Galvanized welded joints in pipe lines. W. H. Rogers. il Am Gas J 120:346 Ap 12 '24
How long will a welded joint last. il Gas Age 53:834 Je 14 '24
How pipe joints can be made truly tight. diag Coal Age 25:853-4 Je 5 '24
Joint wiping. R. M. Starbuck. Dom Eng 106: 26-8+ Mr 8 '24
Lead filings for sealing screw pipe joints. Eng & Contr (W W) 63:767 Ap 10 '25; Same. Am Arch 127:400 Ap 22 '25; Same. Factory 34:808+ My '25; Same cond. Chem & Met Eng 32:454 Ap '25
Making a right and left joint. W. H. Wakeman. diags Dom Eng 107:21 Je 21 '24
Making strong and tight joints by welding process. H. E. Wetzell. il Sanitary & Heat Eng 102:83-5 Ag 8 '24
Midwest joint for high pressures and temperatures. il Power 61:748 My 12 '25
New joint seal for Cast iron pipe co. bell and spigot pipe. il Eng & Contr (Equip R) 64: 745 S 30 '25
Notes on making screwed pipe joints. Power 59:914; 60:107 Je 3, Jl 15 '24
Pipe joint materials. Am Water Works Assn J 12:320-2 N '24

PIPE joints—*Continued*
Pipe joints for gas mains. Iron Age 114:1365 N 20 '24
Pipe joints for high pressures and temperatures. diags Power 60:396-7 S 9 '24
Pipe welding at Westport station. il Power 61:904-5 Je 9 '25
Pipe welding course given in Cleveland. R. K. Randall. diags Eng & Contr (W W) 62: 579-80 S 10 '24
Plumbing joints. Elec R (Lond) 94:278, 318, 333-4, 371-2, 412-13, 529-30 F 15-Mr 14, Ap 4 '24
Reinforced welds in pipe crossing a river. il Gas Age 53:903 Je 28 '24
17 years' experience in pipe welding. H. A. Woodworth. il Heat & Ven 22:52-3+ N '25
Some information about joint wiping. Dom Eng 111:35 My 2 '25
Steam pipe expansion joint. il diags Ry R 73:811-12 D 1 '23
Tapping pipe couplings. il Dom Eng 108:24 S 6 '24
Testing welded pipe joints. Power 61:225, 665 F 10, Ap 28 '25
Tests on holding power of lead joints in water-pipe plugs. J: H. Quense. il diags Eng N 92:867-8 My 15 '24; Discussion. S. P. Baird. 92:1112 Je 26 '24
Tight longitudinal joints for split-tile pipe conduits. C: H. Day. diag Heat & Ven 22: 93 S '25
Use of lead substitutes in pipe line construction. L. A. Geupel. Munic & Co Eng 66: 243-6 My '24
Utility and durability of rubber as a jointing material for gas-mains. W. Hole. il diags Gas J (Lond) 164:504-8 N 21 '23; Abstract. Rubber Age 14:260-2 Ja 10 '24
Victualic system of flexible pipelines. il Gas J (Lond) 165:368-9 F 13 '24
Victualic system of pipe jointing. il diags Engineering 117:205-6 F 15 '24; Same. Eng & Contr (W W) 63:295-8 F 11 '25
Welded joints in 250-lb. steam line. T. T. Copeland. il Power 61:536 Ap 7 '25
Welded joints instead of threaded joints. H. E. Wetzell. il Sanitary & Heat Eng 102: 44-5 Jl 25 '24; Same. Heat & Ven 21:46-7 Ag '24; Same cond. Eng & Contr (Bldgs) 62: 211-12 Jl 23 '24; Same cond. Manuf Rec 86: 111 S 4 '24
Welded pipe installations. Power 61:31, 428 Ja 6, Mr 17 '25
Welded pipe joints for power plants. E. H. Thompson. il diags Power 61:680-2 My 5 '25
Welded piping in buildings. H. E. Wetzell. Power 60:784 N 11 '24
Welded steel gas main data from Portland, Oregon. R. M. McCalley. il Gas Age 54:425-8+, 463-5 S 27-O 4 '24
Welding field joints and laying riveted steel pipe. G: W. Pracy. il diag Eng N 92:851-3 My 15 '24
Welding for the plumber. H. A. Woodworth. il Dom Eng 113:22-3+ O 17 '25
Welding the pipe lines in ordinary buildings. H. E. Wetzell. il Bldg Age 46:94 S '24
Weston joint for sewer pipe. il Brick & Clay Rec 67:484 S 29 '25

See also Pipe flanges

PIPE launders. See Launders

PIPE laying
Address. E. F. Keable. il Gas J (Lond) 166: 461-3 My 14 '24
Construction of a 9-ft. pipe line six miles long. il Eng N 91:1067 D 27 '23
Deep concrete drain pipe. M. E. Chamberlin. il diag Eng & Contr (W W) 61:592-4 Mr 12 '24
Denver's new water supply conduit. il diags Pub Works 56:271-5 Ag '25
Heavy pipe laid by simple means. E. F. Mail. il Eng N 93:348 Ag 28 '24
Keeping ahead of the demand in distribution. F. A. Lydecker. il diags Gas Age 55:261-4 F 21 '25
Labor saving equipment in gas distribution. J. E. Burke. il Gas Age 55:401-3+ Mr 21 '25
Labor saving machinery for street construction work. H: Fink. Gas Age 54:391-3 S 20 '24
Laying large water main through swamps in New Orleans. J: T. Eastwood. il diags Eng N 92:854-6 My 15 '24
Laying of cast iron water mains. H. H. Baughman. Eng & Contr (W W) 63:743-5 Ap 10 '25
Linking-up rural areas with a high-pressure gas supply. J: E. Morfett. il Gas J (Lond) 166:468-71 My 14 '24
Pipe culverts placed by jacking. A. Griffin. il Eng N 92:864-6 My 15 '24
Pipe welding by acetylene. G. O. Carter. il Eng & Contr (W W) 64:353-5 Ag 12 '25
Relation of sewer trench width to load on pipe. G: C. D. Lenth. diags Eng N 92:533-5 Mr 27 '24; Discussion. 92:1030 Je 12 '24
Unusual job of lowering large gas mains. H. B. Andersen. il Am Gas J 121:1198+ N 22 '24; Same. Gas Age 55:41-2 Ja 10 '25
Welding field joints and laying riveted steel pipe. G: W. Pracy. il diag Eng N 92:851-3 My 15 '24

See also Pipe lines; Trenching machinery

Cost
Trench machinery. E. S. Stanton. Gas Age 54:316 S 6 '24
Trenching machines are an essential equipment. A. G. Ford. il Gas Age 54:359-62 S 13 '24
Under what conditions does it pay to use excavation machinery for the laying of gas mains? Am Gas Assn Technical sec v 6: 1226-33 '24

PIPE laying, Subaqueous
Additional city pipe conduits of the Catskill aqueduct. W. E. Spear. il map Eng N 92: 838-41 My 15 '24
Building a small submarine oil pipe tunnel. il diags plans Eng N 92:574-6 Ap 3 '24
Grand River crossing—Spavinaw water-supply conduit. W. R. Holway. il diags Eng N 95:168-71 Jl 30 '25
Hetch Hetchy Bay crossing division. il Pub Works 56:371-4 O '25
Laying dredging pipe line under deep ship channel. il Eng N 92:295 F 14 '24
Laying submarine pipe at San Francisco. Pub Works 56:125 Ap '25
Laying water main across Grand river. J: Taylor. il diag Can Eng 46:121-3 Ja 8 '24; Same abr. Eng & Contr (W W) 61:599-601 Mr 12 '24
Open sea construction of a concrete pipe sewer outfall. H. A. Van Norman. il diags plan Eng N 95:292-4 Ag 20 '25
Sewer outfall "goes to sea" before being sunk in place. il Eng N 92:1027 Je 12 '24
Submarine conduit line. G. H. McKelway. Elec W 86:752-3 O 10 '25
Submarine pipe laying for the Narrows siphon, New York. il Eng & Contr (W W) 62:779-82 O 8 '24
Submarine pipe line between Portland and South Portland, Maine. H. U. Fuller. il diags plan N E Water Works Assn J 37:298-308; Discussion. 309-11 S '23

PIPE lines
Construction of wood stave pipe line. J. B. Holdcroft. il Can Eng 49:101-2 Jl 7 '25
Cooperation in the maintenance of underground structures. L. K. Richey. il diags plans Gas Age 56:3-4+ Jl 4 '25
Corrosion of underground pipe lines. K. H. Logan. Chem & Met Eng 31:1011-12 D 29 '24
Design as a factor in the upkeep of wood-stave pipes. B. E. White. il diags Power 61: 139-42 Ja 27 '25; Same. Eng & Contr (W W) 63:535-40 Mr 11 '25
Effect of concrete pavements upon main locations. I. F. Wortendyke. il Gas Age 55:703-4+ My 16 '25; Same. Am Gas J 122:223+ Mr 14 '25

PIPE lines—*Continued*
English view of the location of utility mains in streets. S. Lacey. Eng & Contr (W W) 61:111-12 Ja 9 '24; Same abr. Pub Works 55: 54-5 F '24
Flood damages power plant and pipe line in the Rio Cobre Valley, Jamaica. F. L. Bronstroph. il Eng N 94:440-1; Discussion. H. L. Cooper. 451 Mr 12 '25
Handling corrosive wastes. Sanitary & Heat Eng 101:8-10 Ja 11 '24
Improper backfill causes failure of woodstave pipe lines. B. E. White. il Power 60:1019-20 D 23 '24
Locating gas pipes by radio. B. R. Carney. diags Gas Age 54:795-6+ D 6 '24
One trench for all services. P. H. Mosher. Pub Works 56:54 F '25
Pipe-lines for liquid China clay. Chem Age (Lond) 12:sup10 Ja 17 '25
Pipe lines on bridges. P. L. Brockway. il diags Pub Works 55:239-41 Ag '24; Same. Eng & Contr (Bldgs) 64:217-19 Jl 22 '25
Position of mains in public highways. S. Lacey. Gas J (Lond) 164:711-12; Discussion. 712-13 D 12 '23
Sewer and water pipe in same trench. Eng & Contr (W W) 62:559-60 S 10 '24
Trench cuts in pavements; city engineers describe the methods employed in their respective cities. il Pub Works 56:35-42 F '25
Underground structures in Astoria streets. R. A. McClanathan. plan Pub Works 56:81 Mr '25
Water, sewer and gas pipe in same trench. Am Water Works Assn J 12:353 N '24

See also Aqueducts; Electrolytic corrosion; Gas distribution; Gas pipes; Manholes; Oil pipe lines; Petroleum pipe lines; Pipe laying; Piping (power plants); Steam pipes; Water hammer; Water pipes; Water supply engineering

PIPE lining
Making lead-lined pipe. il diags Chem & Met Eng 30:351-3 Mr 3 '24

See also Cement lined pipe

PIPE oiling
Portable oil sprayer effects big savings. A. F. Hinton. il Nat Pet N 17:57-8 Mr 18 '25

PIPE threading machines
Bignall & Keeler duplex pipe-threading and cutting machine, 20-inch. il Am Mach 63: 564-5 O 1 '25; Iron Age 116:1118 O 22 '25
Davis Roto-matic pipe threading machine. il Am Mach 60:979-80 Je 26 '24; Iron Age 113: 1855 Je 26 '24
Landis 6-in. pipe threading and cutting machine. il Iron Age 115:408 F 5 '25
Saunders pipe threading and cutting machine. il Mach 31:747 My '25; Iron Age 115:1484 My 21 '25; Sanitary & Heat Eng 103:338 My 15 '25
Williams portable pipe-theading, cutting and reaming machine. il Mach 30:637-8 Ap '24; Elec Ry J 63:628 Ap 19 '24; Iron Age 113: 1077 Ap 10 '24; Sanitary & Heat Eng 101: 219-21 Ap 4 '24; Am Mach 60:673 My 1 '24; Ry Age 76:1413-14 Je 11 '24

PIPE threads
Hobbing pipe-thread dies. C. T. Ketz. diags Mach 30:929-30 Ag '24
Kink in threading large pipe. S. B. Richey. diags Am Mach 62:590 Ap 9 '25
Threading large pipe. il Dom Eng 108:21 Ag 23; 37 Ag 30 '24

Standards

Standard conduit threads. Mach 30:974 Ag '24

PIPERAZINES
Resolution of *dl*-diphenylpropylenediamine and *dl*-1:4-diphenyl-2-methylpiperazine. F. B. Kipping and W: J. Pope. Chem Soc J 125:2396-9 N '24

PIPERIDINE
Piperidine derivatives; a cyclic and an open-chain compound related in structure to cocaine. S. M. McElvain. Am Chem Soc J 46: 1721-7 Jl '24
Properties of aryl esters and ethers of *n*-piperidino alkyl compounds. H. C. Brill. Am Chem Soc J 47:1134-6 Ap '25

PIPERIDINIUM pentamethylenedithiocarbamate
Vulcanization accelerators. G. S. Whitby and H. E. Simmons. Ind & Eng Chem 17:931-5 S '25

PIPERITONE
Piperitone; constitution of piperitone. J: Read, H: G: Smith and R. S. Hughesdon. Chem Soc J 125:129-37 Ja '24
Piperitone; the reduction of piperitone. R. S. Hughesdon, H: G: Smith and J: Read. Chem Soc J 123:2916-25 N '23

PIPERONYLPROPIONITRILE
β-piperonylpropionitrile and some derived substances. W. Baker and R. Robinson. Chem Soc J 127:1424-33 Je '25

PIPES
Formulas for volumes and areas of pipe intersections. G: Paaswell. diags Eng N 93: 28-9 Jl 3 '24
Heat dissipation from the surfaces of pipes and cylinders in an air current. A. H. Gibson. Philos Mag 6th ser 47:324-36 F '24
Heat transfer in small pipes. F. C. Blake and W. A. Peters, jr. diags Ind & Eng Chem 16:845-6 Ag '24
Recent investigations on cast iron for pipe. R: Moldenke. Am Soc T M Pro 24 pt 2: 682-705; Discussion. 706-16 '24
Schoolmaster and his class. R. M. Starbuck. diags Dom Eng 107:22-6+ Je 21 '24
Spiral corrugated cast iron culvert pipe. il Eng & Contr (Equip R) 63:936-7 Ap 29 '25
Standard test bar for cast-iron pipe with special reference to its progressive deflection. J. T. MacKenzie. il Am Soc T M Pro 24 pt 2:664-81; Discussion. 706-16 '24
Underpinning Trinity church with pipe piles. H. de B. Parsons. il diags plan Eng N 95:668-70 O 22 '25
Welding cast-iron pipes. Pub Works 55:384 D '24

See also Air pipes; Gas pipes; Hawse pipes; Heating pipes; Mechanical equipment of buildings; Pipes bends; Pipe elbows; Pipe fitting; Pipe joints; Pipe laying; Pipe lines; Piping (power plants); Plumbing; Sewer pipes; Steam pipes; Tubes; Water pipes

Corrosion

See Corrosion and anti-corrosives; Water pipes—Corrosion

Manufacture

Cast iron pipe manufacture in the South. R: Moldenke. Iron Age 114:697-8 S 18 '24; Same. Iron Tr R 75:1309-10 N 13 '24
Cast pipe centrifugally in sand molds. Iron Tr R 74:1516 Je 5 '24; Eng N 92:1078 Je 19 '24; Iron Age 113:1660 Je 5 '24; Can Eng 47: 182 Jl 22 '24
Centrifugal cast pipe; the Henry-Weitling-Peake process. Iron Age 114:1674 D 25 '24
Centrifugal casting of large diameter pipes. il diags Engineer 139:416 Ap 10 '25
Centrifugal process of pipe manufacture. Gas J (Lond) 164:511 N 21 '23
Coating mixtures for the foundry; the De-Lavaud process. Chem Age (Lond) 11:603 D 13 '24
Large diameter centrifugal pipe. J. E. Hurst. il Iron Age 115:1704-6 Je 11 '25
Making large size hammer-welded pipe. G: F. Tegan. il diags plan Iron Age 114:1263-8 N 13 '24
Making lead-lined pipe. il diags Chem & Met Eng 30:351-3 Mr 3 '24
Molding special pipe shapes. P. Dwyer. il Foundry 52:373-8 My 15 '24
Ein neues verfahren zur herstellung von rohren aus hochofenschlacke. F: Riedel. il Stahl & Eisen 44:1173-4 S 25 '24; Abstract. Mech Eng 47:51 Ja '25
New cutting off machine. E. W. Mikaelson. il diags Iron Tr R 74:173-6 Ja 10 '24

PIPES—Manufacture—*Continued*
One man now does the work of eight in one-fourth the time. M. J. Dodds. il Factory 35:126+ Jl '25
Pipe making and its influence in creating a domestic market for pig iron. Y. A. Dyer. Manuf Rec 86:294-5 pt 2 D 11 '24
Radical changes in making pipe are predicted. Eng N 92:342 F 21 '24
Ream your pipe. Dom Eng 107:31 My 3 '24
Sandspun pipe. C: R. Wood. N E Water Works Assn J 39:85-7; Discussion. 87-9 Mr '25
Series of picture stories on the manufacture of steel and wrought iron pipe. Published in weekly numbers of Domestic engineering from February 9 to September 20, inclusive
Using the electric furnace. J. T. MacKenzie. Foundry 52:859-60 N 1 '24

See also Pipe threads; Pipes, Concrete—Manufacture; *also* Gary tube company

Prices

Cast iron pipe prices. F. G. Gordon. Am Water Works Assn J 11:761-9 Jl '24; Excerpts. Eng & Contr (W W) 61:789-92 Ap 9 '24
Standard price list of steel and wrought iron and cast iron pipe; tabulation. D. H. Maury. Eng & Contr (W W) 61:1039-41 My 14 '24
Wrought iron and steel pipe prices, 1903-1923. Iron Age 113:85 Ja 3 '24
Wrought iron and steel pipe prices, 1904-1924. Iron Age 115:75 Ja 1 '25

Repair

Repairing ruptured pipe by oxyacetylene welding. diags Coal Age 24:741 N 15 '23; Same. Sanitary & Heat Eng 101:76 F 8 '24; Same. Blast F & Steel Pl 12:139 F '24

Specifications

Pipe specifications and bills of material. H. E. Collins. diags Management & Adm 7: 577-81 My '24
Specification for cast iron pipe. Sanitary & Heat Eng 102:22-3 Jl 11 '24
Standard specifications for cast iron pipe and special castings. Am Soc C E Pro 50:1268-74 O '24

Standardization

Discuss cast iron pipe standardization. diag Foundry 52:695-6 S 1 '24

Standards

National pipe standards. 656p National tube co., Pittsburgh '24
Selecting standard pipes for columns or struts. W. F. Schaphorst. Coal Age 25:853 Je 5 '24

Storage

Portable oil sprayer effects big savings. A. F. Hinton. il Nat Pet N 17:57-8 Mr 18 '25

Transportation

New 70-ton capacity gondola car for the Wabash for shipment of pipe and tubing. il diag Ry R 75:657-9 N 1 '24

PIPES, Brass
All brass versus part brass. H. A. Call. plan Sanitary & Heat Eng 101:269-71+ My 2 '24
Brass and us and profit. H. A. Call. plan Sanitary & Heat Eng 101:1-3, 72-4+, 139-41+, 200-2 Ja 11, F 8, Mr 7, Ap 4 '24
Brass pipe and fittings. R. M. Starbuck. plans Dom Eng 107:26-8+ Ap 19 '24
Copper and brass piping saves money. Marine R 54:44-5 F '24
Hints for installing brass pipe. J: F. Gowen. Arch & Bldg 55:125 D '23
Why of brass pipe. J. B. Walker. Sanitary & Heat Eng 104:244-6 O 16 '25

See also Water pipes, Brass

Manufacture

Series of picture-stories on the manufacture of brass pipe. il Dom Eng 112:16 Jl 11; 21 Jl 18; 19 Jl 25; 21 Ag 1; 21 Ag 8; 22 Ag 15; 25 Ag 22; 24 Ag 29; 33 S 5; 23 S 12; 23 S 19; 20 S 26; 113:30 O 3; 23 O 10; 24 O 17; 33 O 24; 22 O 31; 30 N 7; 35 N 14; 33 N 28; 41 D 5; 26 D 12; 26 D 19; 39 D 26 '25

Specifications

Standard specifications for brass pipe, standard sizes. Am Soc T M Standards 1923:21-4

PIPES, Concrete
Concrete-lined pipes resist acidulous mine water. C. H. S. Tupholme. Coal Age 26:548-9 O 16 '24
Concrete pipe electrical conduits. il Concrete 25:32-4 Jl '24
Concrete pipe for foundation piling for a store building. diags plans Concrete 26:203-4 Je '25
Pipe manufacturers review conditions. Concrete 24:79-80 F '24
Tuyaux en béton armé pour conduites forcées. E. Monteux. diags Génie Civil 85:374-7 O 25 '24

See also Culverts, Concrete; Sewer pipes, Concrete; Sewers, Concrete; Water pipes, Concrete

Cost

Costs of water supply mains of four different materials. D. H. Maury. Eng N 92:1052-4 Je 19 '24

Manufacture

Centrifugal concrete pipe in England. Eng N 93:595 O 9 '24
Concrete pipe for high pressure work. F. Johnstone-Taylor. diag Concrete 27:29 Jl '25
La fabrication des tuyaux en ciment armé au moyen de la force centrifuge, procédé S.T.A.C. Y. Letort. Génie Civil 83:627-8 D 22 '23
German centrifugal concrete pipe. E: L. Heidenreich. diag Concrete 24:259 Je '24
Making the concrete pipe for Los Angeles outfall sewer. il diags Eng N 93:296-8 Ag 21 '24
Wire mesh used for concrete pipe. il Iron Age 116:144 Jl 16 '25

See also Water pipes, Concrete—Manufacture

Testing

Testing large concrete pipe. il Can Eng 47: 196 Jl 29 '24

PIPES, Copper

See also Water pipes, Copper

Specifications

Standard specifications for copper pipe, standard sizes. diags Am Soc T M Standards 1923:17-20

PIPES, Lead
Commercial practice relating to sizes of lead pipe. W. A. Cowan. Am Soc T M Pro 24 pt 1:265-74 '24

PIPES, Steel
Building frames made of oxyacetylene welded pipe. D. C. McGiehan. il diags Eng N 93:878 N 27 '24
Pin-connected pipe forms structural elements for small building. diags Eng N 93:966-7 D 11 '24
Pipe demand held steady. Iron Tr R 76:83 Ja 1 '25
Pipe makers unable to meet demands. Iron Tr R 74:92 Ja 3 '24
17 years' experience in pipe welding. H. A. Woodworth. il Heat & Ven 22:52-3+ N '25
Stresses in pipes reinforced by steel rings. G. Cook. Engineering 116:477-8 O 12 '23; Abstract. Power 58:669 O 23 '23; Discussion. Engineering 117:87-8 Ja 18 '24
Le tube d'acier et son emploi dans l'industrie du bâtiment. Génie Civil 86:168-9 F 14 '25

See also Hawse pipes; Tubes, Steel; Water pipes, Steel

Cost

Costs of water supply mains of four different materials. D. H. Maury. Eng N 92:1052-4 Je 19 '24

PIPES, Steel—*Continued*

Manufacture

Making steel pipe and tubes. il Sanitary & Heat Eng 102:111-12 Ag 22 '24
New butt weld mills at Indiana Harbor. il Iron Age 114:1-4 Jl 3 '24
Pioneer pipe producer re-enters market; Clayton Mark & co., Chicago. G. L. Lacher. il Iron Age 115:270-2 Ja 22 '25
Société anonyme d'Escaut et Meuse à Anzin. R. Jouassain. Soc Ing Civils Bul 77:623-44, pl 82 O '24
Story of steel; the manufacture of butt-welded and lap-welded steel pipe. il Sci Am 131:398-9 D '24

PIPES, Tobacco. See Tobacco pipes

PIPES, Wood

See also Water pipes, Wood

Cost

Costs of water supply mains of four different materials. D. H. Maury. Eng N 92:1052-4 Je 19 '24

PIPETS

Gas absorption pipette. A. O. Jones. diag Soc Chem Ind J 44:115-16 Mr 6 '25; Same abr. Am Gas J 123:53-4 Jl 18 '25
New absorption pipette for gas analysis. S. W. Saunders. diag Chem Soc J 123:2826-8 N '23

PIPING

See also Ships—Piping

Identification

Identification of piping systems by colors; abstracts of A.S.M.E. subcommittee report. diags Chem Age 32:48-50 Ja '24; Power 59: 111-12 Ja 15 '24; Heat & Ven 21:87 F '24; Power Pl Eng 28:190-1 F 1 '24; Management & Adm 7:297-8 Mr '24; Factory 32:520+ Ap '24
Identifying pipe lines and valves. D: Fliegelman. il Ind Eng 82:525-6 N '24
Locating pipes in walls. il Dom Eng 110:28 Ja 17 '25
Proposed code for identification of piping systems. F. P. Ingalls. Nat Safety N 12:23-4 Jl '25
Report of the subcommittee on identification markings other than color. diags Power 61: 77 Ja 13 '25; Power Pl Eng 28:1254 D 15 '24; Management & Adm 9:62 Ja '25
X-rays for examining walls and floors. il Bldg Age 47:135 Ja '25

PIPING (power plants)

Alinement charts for piping problems. L: E. Partch. diag Power Pl Eng 28:1215-16 D 1 '24
Attention to piping details saves steam. C. C. Hermann. diags Power Pl Eng 29:239-41, 348-50 F 15, Mr 15 '25
Boiler piping arrangements. diags Power Pl Eng 28:86-8 Ja 1 '24
Control of power production. C: L. Hubbard. il diags Factory 34:764-9+ My '25
Design of an efficient steam pipe system. C. C. Hermann. plan Power Pl Eng 29:890-2 S 1 '25
Enormous forces produced by pipe expansion. diags Power 59:148 Ja 22 '24
Executive and his power department. M. Sampson. Textile World 66:1281+ S 6 '24
Gas welding of power plant piping in shop and field. A. W. Moulder. il diags Gas Age 56:699-700+, 737-9 N 14-21 '25; Same cond. Power 62:741-2 N 10 '25
Grades and characteristics of station piping. N. C. Nicol. Power 61:38-9 Ja 6 '25
Maintenance of piping systems. A. K. Vradenburgh. Power Pl Eng 28:940-1 S 15 '24
Pipe connections to power units. il diag Power Pl Eng 28:1093-4 N 1 '24
Piping for high pressures and temperatures. J. A. Aiton. Power Pl Eng 29:448 Ap 15 '25
Safety first should be feature of boiler piping. diags Power Pl Eng 28:88-9 Ja 1 '24
Standardized identification markings for piping systems. il Ind Eng 83:295-6 Je '25
Steam piping for Kearny station. H. L. R. Whitney. il Power 61:824 My 26 '25
Use of welding in power-plant piping. L: J. Sforzini. diags Power 58:798-802 N 20 '23
Wabash river station employs Holly loop. J. L. Peurifoy. diags Power Pl Eng 29:1097-8 N 1 '25

Specifications

See also Steam pipes—Specifications

Tables, calculations, etc.

Spacing of pipe supports and hangers. F. H. Smith. diags Blast F & Steel Pl 12:51-3+ Ja '24

PIPING (refrigerating plants)

Eliminating liquid ammonia from the suction line. G. Grow. diag Power 61:68 Ja 13 '25
Reduce costs by stopping ammonia leaks. A. G. Solomon. Power Pl Eng 28:713-14 Jl 1 '24
Report of A.S.R.E. committee on standardization of pipe flanges and fittings. Refrig Eng 11:214-15 D '24

PIRRIE, William James, 1847-1924

Sketch. por Engineer 137:655-6 Je 13 '24; Engineering 117:771-3 Je 13 '24; Marine R 54: 296-7 Jl '24

PISÉ

Build ye better. E. McCullough. Bldg Age 46:49+ Jl '24
Houses of mud. J. W. Porter. il Sci Am 130: 233 Ap '24
Modern pisé-building; house-building with compressed or rammed earth. K. J. Ellington. 116p Bethany ptg. co., Lindsborg, Kan. '24
Pisé de terre or rammed earth construction. il Am Arch 127:429-35 My 6 '25

PISTOLS

Manufacture

Taking up the postwar slack; Colt's patent fire arms mfg. co., Hartford, Conn. H. R. Simonds. il Iron Tr R 76:279-80 Ja 22 '25

PISTON pins

Better piston-pin lapping. il Sci Am 131:264 O '24
Commercial cylindrical lapping of piston-pins. C. T. Appleton. il Mach 32:105-7 O '25
Mirra machine for lapping piston pins. il Automotive Ind 51:240 Jl 31 '24; Blast F & Steel Pl 12:391 Ag '24
Piston pins. F. C. Hudson. Am Mach 60:746 My 15 '24
Piston pins and end plugs. F. H. Colvin. diags Am Mach 59:912 D 20 '23
Piston pins from bar stock. il Am Mach 62: 63 Ja 8 '25
Theory and practice of centerless grinding. W. W. Seabury. Mech Eng 47:943-5 N '25; Excerpts. Am Mach 63:509-11 S 24 '25

PISTON rings

Designs 2-seated piston ring. Marine R 54: 507 D '24
Fitting piston rings by peening. diags Power 60:659, 815-16; 61:70-1, 346 O 21, N 18 '24, Ja 13, Mr 3 '25
Gibson's piston and rings. il Power 61:923 Je 9 '25
Method of replacing piston rings on unaflow engine. A. A. Fette. diags Power 60:852 N 25 '24
Ein neues verfahren zur berechnung und anfertigung selbstspannender kolbenringe. O: Pollert. diag Zeit Ver Deutsch Ing 68: 253-4 Mr 15 '24
New type of balanced piston ring. diag Marine R 55:230 Je '25
Piston rings; compound and special types. A. W. Judge. diags Automobile Eng 15:48-50 F '25
Piston rods and rings for air pumps. F. H. Colvin. il Am Mach 63:339-40 Ag 27 '25
Simple chart shows proper piston ring dimensions. B. M. Thornton. Power Pl Eng 29: 556 My 15 '25

Manufacture

Casting iron centrifugally. J: A. Rathbone. diags Foundry 51:988-90 D 15 '23

PISTON rings—Manufacture—*Continued*
Finishing piston-ring grooves. Mach 30:613 Ap '24
Making satisfactory piston rings. J. McIntosh. diags Am Mach 61:917-18 D 11 '24
Modern piston ring practice involves efficient design and production. P. M. Heldt. diags Automotive Ind 49:1142-6, 1204-8 D 6-13 '23
Piston-rings and their production. J. McIntosh. diag Mach 31:93-4 O '24

PISTONS
Aluminium alloy pistons for Diesel engines. F. Johnstone-Taylor. Marine Eng 29:397-8 Jl '24
Aluminum-alloy pistons—properties and advantages of these heat resisting alloys. F. A. Livermore. Brass W 21:55-6 F '25
Automatic piston machine. il Iron Age 113: 1432-3 My 15 '24
Cylinders and pistons. T. Rapson. diags Automobile Eng 15:248-51 Ag '25
L'emploi des alliages légers et ultra-légers pour les pistons de moteurs à explosion. R. de Fleury. Génie Civil 85:71-2 Jl 19 '24
L'emploi des alliages légers pour les pistons de moteurs à explosion. Génie Civil 84:602-3 Je 21 '24
Fiat automobile production methods. J. A. Lucas and F. E. Bardrof. il Am Mach 61: 1-4 Jl 3 '24
Figuring piston diameter for a given cylinder. Power Pl Eng 29:259, 456-7 F 15, Ap 15 '25
Friction of pistons and piston rings. T. E. Stanton. diag Engineer 139:70, 72 Ja 16 '25
Gas engine piston and exhaust valve temperatures. F. R. B. Watson. Engineering 119: 1-2 Ja 2 '25
Gibson's piston and rings. il Power 61:923 Je 9 '25
Improved piston and ring construction. diags Marine Eng 30:136 Mr '25
Light alloy piston developed which is said to prevent slap. il Automotive Ind 51:321 Ag 14 '24
Light alloys for pistons and connecting-rods. L. Aitchison. Automobile Eng 14:148-53 My '24; Same. Automotive Ind 50:924-31 Ap 24 '24
Light weight pistons. F. C. Hudson. Am Mach 61:160 Jl 24 '24
Machining Hudson super-six lynite pistons. C: O. Herb. il diags Mach 30:365-70 Ja '24
Making aluminum pistons in Europe. B. Schapira. il diags Foundry 53:8 Ja 1 '25
Making pistons for many cars. L. S. Vadner. il Am Mach 62:149-50 Ja 22 '25
Making pistons in the locomobile shop. N. A. Jagger. il Am Mach 62:183-5 Ja 29 '25
Maxwell method of securing accurate pistons. F. H. Colvin. il Am Mach 60:873-4 Je 12 '24
Operation of Diesel engines. R. Hildebrand. diags Power 61:831-3 My 26 '25
Piston designed for gasoline rail car service. il Ry Mech Eng 99:303-4 My '25
Piston expander for reclaiming feed valves. N. T. Cline. diags Ry Mech Eng 99:644 O '25
Piston rods and rings for air pumps. F. H. Colvin. il Am Mach 63:339-40 Ag 27 '25
Replacing a broken piston under difficulties. T: Pascoe. il Power 62:216 Ag 11 '25
Screw machine tooling for two-piece pistons. I. F. Yeoman. il diags Mach 31:617-18 Ap '25
Simple equipment used to machine pistons accurately. W. L. Carver. il diags Automotive Ind 52:502-5 Mr 12 '25
Stuck pistons in oil engines. Power 59:218, 381 F 5, Mr 4 '24
Van Norman develops heavy piston grinder. il Automotive Ind 53:217 Ag 6 '25
Van Norman Ko-rek-tor for correcting the bevel at the skirt end of a piston. il Am Mach 63:39-40 Jl 2 '25

See also Piston rings

PIT river project
Pit river hydraulic development involves novel features. W. Dreyer and G. R. Henninger. il diags plans J Elec 55:118-28 Ag 15 '25
Tunneling in volcanic formations on Pit river project. il diags map Eng N 93:168-71 Jl 31 '24

PITCH
Pitch getting and loading. il Gas J (Lond) 170:468 My 13 '25

Specifications
United States government master specification for coal-tar pitch for waterproofing and damp proofing. diags U S Bur Stand Circ 155:1-11 '24

PITCH, Musical. See Musical pitch

PITCHBLENDE
Relation between uranium and radium; the period of ionium and the ionium-thorium ratio in Colorado carnotite and Joachimsthal pitchblende. F: Soddy and A. F. R. Hitchins. Philos Mag 6th ser 47:1148-58 Je '24

PITCHSTONE
Compressibility of several artificial and natural glasses. P. W. Bridgman. Am J Sci 5th ser 10:359-67 O '25

PITOMETER
Pitometer as a part of a general waterworks survey. V. B. Siems. Eng N 93:596 O 9 '24
Well flow measured by pitometer checked by orifice. J: N. Brooks. Eng N 95:683-4 O 22 '25

PITOT tube
Measuring velocity of water with Pitot tube. diags Power 60:913 D 2 '24
Measuring water flow in conduits; multiple pitot and piezometer tubes used. D. W. Proebstel. il diags Elec W 85:711-12 Ap 4 '25

PITTSBURGH, Pennsylvania
City that is set on a hill; a description of the remarkable Watkins development. il plans Bldg Age 45:36-47+ D '23
Cradle of the oil trade. E. Dakin. Comm & Fin 14:760 Ap 22 '25
What kind of a market is Pittsburgh? il Sales Management 7:1795-6+ N '24

Architecture
Portfolio; selection of the best work of the Pittsburgh chapter of the American institute of architects. Arch Rec 58:233-64 S '25

See also Pittsburgh. University

Bridges
Bridge construction at Pittsburgh encounters much red tape. Eng N 95:295-6 Ag 20 '25
Bridge-raising program on the Allegheny river in Allegheny county. V. R. Covell. Eng Soc W Pa 41:81-97; Discussion. 98-104 Ap '25
New cantilever bridge designed with architects' co-operation. N. F. Brown. il Eng N 95:107 Jl 16 '25
Three new Allegheny river bridges to be of unusual type. diags map Eng N 93:995-7 D 18 '24

County jail
Richardson's Allegheny county jail. Am Arch 128:sup12+ N 5 '25

Industries and resources
American institute of chemical engineers 17th annual meeting, Pittsburgh. il Chem & Met Eng 31:925-9 D 15 '24
Industrial power of the Pittsburgh district outside that of the iron and steel industry. S. B. Ely and W. F. Rittman. il diags Mech Eng 46:861-5 D '24
Power and fuel consumption of the iron and steel industries of Pittsburgh. S. B. Ely and W. F. Rittman. il map Blast F & Steel Pl 13:449-55 N '25

Railroads
B. & O.R.R. completes track elevation at Pittsburgh. W. M. Ray. il diag Eng N 94: 397-8 Mr 5 '25
Pennsylvania completes new four-track work at Pittsburgh. il diags map plan Ry Age 77: 7-11 Jl 5 '24

PITTSBURGH, Pennsylvania—*Continued*

Rapid transit

Commercial and research department feature Pittsburgh organization. chart Elec Ry J 63:620-3 Ap 19 '24

Fare changes stimulate riding in Pittsburgh. W. Jackson. maps Elec Ry J 66:317-20 Ag 29 '25

First unit of transit system for Pittsburgh proposed. map plan Eng N 94:555 Ap 2 '25

Mr Fagan's figures attacked. Elec Ry J 62: 992 D 8 '23

New traffic regulations aid railway operation in Pittsburgh. il plans Elec Ry J 65:847-9 My 30 '25

Peace in Pittsburgh. Elec Ry J 63:787 My 17 '24

Pittsburgh receivers report. Elec Ry J 63: 595 Ap 12 '24

Pittsburgh's passes for Sundays and holidays. W. Jackson. Aera 13:1661-4 My '25

Popularizing street car service in Pittsburgh by Sunday and holiday passes. il Elec Ry J 65:366-7 Mr 7 '25

Record in Pittsburgh. A. W. Thompson. Elec Ry J 66:599-601 O 10 '25; Same. Pub Serv Management 39:145-6 N '25

Rehabilitation of Pittsburgh railways brings many improvements. il map Elec Ry J 65: 799-802 My 23 '25

Revenue well maintained at Pittsburgh. Elec Ry J 65:562-3 Ap 4 '25

Solution of the transportation, parking and flood problems of Pittsburgh. E. K. Morse. diags Eng Soc W Pa 40:183-202; Discussion. 203-16 Je '24

Subway proposed in Pittsburgh. diags map Elec Ry J 65:409-13 Mr 14 '25

Transit, a part of the Pittsburgh plan. 58p Citizens committee on city plan of Pittsburgh, Pittsburgh, Pa. '23

Tunnels

Liberty tunnels completed at Pittsburg. diag Can Eng 49:499 O 27 '25

Ventilating the new Liberty tunnel in Pittsburgh. A. McGonagle. il diag plans Elec J 22:102-8 Mr '25

Water supply

Description of Pittsburgh water works. E. E. Lanpher. Am Water Works Assn J 10:1027-34 N '23

PITTSBURGH & Lake Erie railroad

Annual report, 46th, year ended Dec. 31, 1924. Comm & Fin Chr 120:3056-7 Je 13 '25

PITTSBURGH coal mining institute

New coal mining institute formed. Coal Age 27:185 Ja 29 '25

PITTSBURGH plus pricing. See Steel—Prices

PITTSBURGH railways company

Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:1581 Mr 28 '25

Coffin award for 1925 goes to Pittsburgh. Elec Ry J 66:598-9 O 10 '25; Ry R 77:573 O 10 '25

Pittsburgh papers play up Coffin prize. il Elec Ry J 66:840 N 7 '25

Pittsburgh wins the Coffin medal. Aera 16: 643-717 N '25; Same cond. Elec Ry J 66: 666-84 O 17 '25

Turning the red into black in Pittsburgh. J. W. Colton. il maps Aera 13:1795-1813 Je '25

PITTSBURGH steel company

Annual report—year ended June 30, 1925. Comm & Fin Chr 121:1902 O 17 '25

PITTSBURGH tax plan. See Taxation—Pittsburgh

PITTSBURGH university

Cathedral of learning. il Sci Am 133:13 Jl '25

College in a tower; description of Pittsburgh's Cathedral of learning. il Eng & Contr (Bldgs) 68:936-7 O 28 '25

Pittsburgh stadium frame part concrete and part steel. il plans Eng N 95:222-4 Ag 6 '25

Pittsburgh's vaulting university. il Blast F & Steel Pl 13:153-5 Ap '25

University of Pittsburgh. il J Eng Educ 15: 218-20 N '24

University of Pittsburgh stadium. W. S. Hindman. Eng Soc W Pa 41:284-8 O '25

PITTSBURGH university. Mellon institute of industrial research

Industrial fellowships of Mellon institute, 11th annual report. Ind & Eng Chem 16:642-3 Je '24; Excerpt. Blast F & Steel Pl 12:359 Ag '24

Bibliography

List of the books, bulletins, journal contributions, and patents. 37p, supp 1-11 Mellon institute, Univ. of Pittsburgh, Pittsburgh '22

PITUITARY body

Chemistry and function of the pituitary gland. J. J. Abel. Ind & Eng Chem 16:1031-3 O '24

PLANCK'S law

Derivation of Planck's law from Einstein's equation. A. S. Eddington. Philos Mag 6th ser 50:803-8 O '25

PLANE table

Plane table alidade redesigned. il Eng & Min J 116:1055-6 D 15 '23; Eng & Contr (Ry) 61: 1145-6 My 21 '24

PLANE trigonometry. See Trigonometry, Plane

PLANERS, Shale. See Shale planers

PLANES

Planes smooth patternmaker's work. W. C. Ewalt. il diags Foundry 53:287-8+ Ap 1 '25

Special planes assist patternmaker in finishing irregular surfaces. W. C. Ewalt. diags Foundry 53:409-11 My 15 '25

PLANETARIUM. See Astronomical models

PLANETARY gearing. See Gearing, Epicyclic

PLANETESIMAL hypothesis

Planetesimal hypothesis and the solar system. H. F. Reid. diags Am J Sci 5th ser 7:37-64 Ja '24

PLANETS

See also Asteroids

Radiation and temperature

Some measurements of the spectral components of planetary radiation and planetary temperatures. W. W. Coblentz and C. O. Lampland. diag J Fr Inst 199:785-841; 200: 103-26 Je-Jl '25

PLANIMETERS

Calculation of quantities. H. L. Swan. Can Eng 48:480 My 12 '25; Same. Eng & Contr (G C) 63:1355 Je 17 '25

Crop reporting by airplane. O. M. Kile. il Sci Am 131:22-3 Jl '24

Why fuss with your planimeter scale? H. A. Williamson. Coal Age 26:112 Jl 24 '24

PLANING

Cam groove planing in the lathe. H. C. Ten Horn. diags Mach 31:112-13 O '24

How to estimate machine shop costs. A. A. Dowd. diags Am Mach 61:613-15, 695-7 O 16, 30 '24

Das problem der vorkalkulation und seine lösung. K. Hegner. Zeit Ver Deutsch Ing 68:821-4 Ag 9 '24

Proper planing requires correct adjustment and skillful operation. W. C. Ewalt. diags Foundry 53:332-4 Ap 15 '25

Spiral bevel gear planing. il diags Engineer 140:112-14 Jl 31 '25; Abstract. Mech Eng 47: 854-5 O '25

Die untersuchung der dreharbeit. H. Klopstock. il diags Zeit Ver Deutsch Ing 69: 215-21, 311-14 F 21, Mr 7 '25; Abstracts (Investigations in turning and planing). Mech Eng 47:474-9 Je '25; Am Mach 62:881-3 Je 4 '25

PLANING machines

Belt and motor-driven high-speed planing machines. il Engineering 118:687-8 N 14 '24

Betts double-housing locomotive-guide planer. il Am Mach 62:218 Ja 29 '25; Iron Age 115: 343 Ja 29 '25; Ry Mech Eng 99:306 My '25

Betts large heavy duty planer. il Am Mach 60:676 My 1 '24

Birdsboro plate-planing and upsetting machine. il Am Mach 62:181-2 Ja 22 '25; Iron Age 115:201-2 Ja 15 '25; Iron Tr R 76:229 Ja 15 '25; Mach 31:493 F '25

PLANING machines—*Continued*
Cincinnati 48-inch hypro planer. il Mach 32: 161 O '25; Am Mach 63:558 O 1 '25
Cincinnati hypro openside planer. il diags Am Mach 63:712-13 O 29 '25; Iron Age 116:1254 N 5 '25
Cincinnati hypro planer. il Am Mach 62:513-14 Mr 26 '25; Iron Age 115:967 Ap 2 '25; Mach 31:655-6 Ap '25
Double tool for planing T-slots. W: Clancy. il Am Mach 60:413 Mr 13 '24
Driving box shoe planing device. J. D. Snyder. diags Ry Mech Eng 98:488-9 Ag '24
Fixtures for machining shoes and wedges. F. C. Hudson. il diags Am Mach 63:495-7 S 24 '25
Gray open-side planer. il diag Iron Age 116: 889-90 O 1 '25; Am Mach 63:551-2 O 1 '25; Mach 32:152-3 O '25; Ry Mech Eng 99:653-5 O '25
Gray switch planer. il Am Mach 59:822-3 N 29 '23; Iron Age 112:1443-4 N 29 '23; Mach 30:305-6 D '23; Ry R 73:808-9 D 1 '23
Individual electric motor drive of planing machines. L. Miller. Engineering 120:172-5 Ag 7 '25
Large high-speed planing machine made by Thomas Shanks & co., ltd. il Engineer 138: 321 S 19 '24
Large planer for severe duty, built by the Consolidated machine tool corporation. il Iron Age 113:1229 Ap 24 '24
Liberty open-side planer. il Mach 31:920-1 Jl '25; Am Mach 63:73-4 Jl 9 '25; Iron Age 116: 84 Jl 9 '25
Liberty 36-in. planer with motor-operated heads. il Am Mach 61:1013-14 D 25 '24; Iron Age 114:1677-8 D 25 '24; Mach 31:404-5 Ja '25
Machining racks in a planer. C. H. French. il Am Mach 63:594 O 8 '25
Miscellaneous applications of the plate-edge planer. diags Engineering 119:745-6 Je 12 '25
Newton 40-inch stroke crank planing machine. il Ry Mech Eng 98:392-3 Je '24
Niles-Bement-Pond co. planer. il Iron Age 115:1274 Ap 30 '25
Niles-Bement-Pond timesaver planers. il Am Mach 63:709-11 O 29 '25; Iron Age 116:1186-8 O 29 '25; Mach 32:239-41 N '25; Ry Mech Eng 99:725-7 N '25
Planer tool for removing babbitt. il diags Ry Mech Eng 97:850 D '23
Planers for large surfaces. F. E. Cardullo. Mech Eng 47:307 Ap '25
Planing elevator T-rails. il diags Am Mach 63:473-5 S 17 '25
Planing machines at Olympia machine tool exhibition. il Engineering 118:362-5, pl 40 S 12 '24
Savings in cost of planer work. T. Berna. il diags Am Mach 62:523-5 Ap 2 '25; Discussion. F. L. Watson. 63:814 N 19 '25
Side planing machine. il Engineering 118:770, 772 D 5 '24
Sine bar as a universal planing gage. R. H. Rausch. il diags Mech Eng 46:345-8 Je '24
Three devices for the planer. C. S. Ashley. diags Am Mach 62:666 Ap 23 '25
Tools for planing driving box shoes and wedges. E. A. Murray. il Ry Mech Eng 99: 293 My '25
Two-tool attachment for single-head planer. B. R. Wicks. diags Am Mach 59:777 N 22 '23
Use of double-cutting machines. Am Mach 57:560; 59:51-2, 306; 60:20 O 12 '22, Jl 12, Ag 23 '23, Ja 3 '24
Variable-voltage reversing planer drive. A. L. Harvey. il Mach 32:215-16 N '25
Widening a planer for an emergency job. D. A. Hampson. il diag Am Mach 60:300 F 21 '24

Gearing
Tests of a reversing drive for planing machines. il Engineer 137:101-2 Ja 25 '24

Safety devices
Guard for planer belts. D. A. Hampson. il Am Mach 60:709 My 8 '24

PLANING mills

Advertising
Planing mills borrow from men's ready-to-wear. Ptr Ink 128:145-6+ Ag 14 '24

PLANK roads. See Roads, Plank

PLANKTON
Basis of aquatic life. L. A: Hausman. il diags Sci Am 131:403-4 D '24

PLANNING
Brains of production. C. B. Gordy. Soc Auto Eng J 16:604-7; Discussion. 607-8 Je '25
Control of production operations through scientific planning. H. S. Person. Ann Am Acad 119:85-91 My '25
Control that makes possible our 30-day turn. R. J. Reiser. il Factory 34:62-5 Ja '25
Flexible method of production planning for the job shop. E. W. Palmer. Factory 32:321-4+ Mr '24
Handling production problems. H: O. Lowell. chart Textile World 65:1311+, 1997+ F 16, Mr 22 '24
I use a planning board to organize my work. R: C. Hay. System 48:404 O '25
Increased production—decreased unemployment. Elec R (Lond) 95:909-10 D 12 '24
Modern planning system in Detroit shops. G. L. Ohmart. il chart Elec Ry J 64:915-17 N 29 '24
New methods of production planning that make heavy stocks unnecessary. Factory 32: 480-2+ Ap '24
Our nine gains from planned production. G: A. Meihaus. Factory 33:206-7+, 343-4+ Ag-S '24
Planning and production control; the committee on industrial planning of the Boston chamber of commerce. Taylor Soc Bul 9:271-83 D '24
Planning department for railroad shops. M. H. Williams. Ry Mech Eng 98:106-7 F '24
Planning for the manufacture of new products. W. Wilson. diags Ind Management (Lond) 10:267-9 N 15 '23
Planning system in a car manufacturing plant. il plan Ry R 74:357-65 Mr 1 '24
Practical methods for planning work. W: B. Ferguson. Management & Adm 7:31-8 Ja '24
Production control. G: D. Babcock. Am Mach 61:963-70 D 18 '24
Training the planning staff; methods used by Canadian consolidated rubber company. D. Ross-Ross. chart Management & Adm 9:375-8 Ap '25

See also Factory management; Progress records

PLANNING, City. See City planning

PLANNING, Regional. See Regional planning

PLANT cells and tissues
Cytology of the cotton plant. H. J: Denham. Textile Inst J 15:T474-500, pl 1-8 [bibliog. p. T491-2] O '24
Effects of the method of desiccation on the carbohydrates of plant tissue. K. P. Link. Am Chem Soc J 47:470-6 F '25
Extraction of nitrogenous constituents from plant cells. W. E. Tottingham, E. R. Schulz and S. Lepkovsky. Am Chem Soc J 46:203-8 Ja '24
Introduction to cytology with special reference to the cotton plant. H: J: Denham. bibliog diags Textile Inst J 15:T464-73 [glossary p. T472-3] O '24

PLANT cuticle
Plant cuticles; modern plant cuticles: studies in the composition of coal. V. H. Legg and R: V. Wheeler. il Chem Soc J 127:1412-21 Je '25

PLANT engineers' club, Boston
How one group of plant engineers interchange ideas. Factory 32:840+ Je '24

PLANT fluids. See Sap—Analysis

PLANT growth
Bringing the carboniferous period into the greenhouse. E. Bade. il diags Sci Am 131: 246 O '24

PLANT growth—*Continued*
Hydrogen-ion concentration in relation to animal and plant growth. H: Leffmann. il J Fr Inst 197:741-56 Je '24
New uses for the vacuum tube; measuring the growth of plants. C. B. Bazzoni. il diags Radio N 7:22-4+ Jl '25
Rôle of silica in plant growth; its assimilation and physiological relation to phosphoric acid. D. R. Nanji and W. S. Shaw. Soc Chem Ind J 44:1-6 Ja 2 '25
See also Plants, Effect of light on

PLANT lice
Bugs which will not take poison. Sci Am 131:242 O '24

PLANT location. See Factories—Location

PLANT papers. See Employees' magazines

PLANT products. See Agricultural products

PLANT yard. See Factories—Yards

PLANTS
Do green plants have the power of fixing elementary nitrogen from the atmosphere? C. B. Lipman and J. K. Taylor. bibliog J Fr Inst 198:475-506 O '24
Nerves of plants. H. H. Dixon. Sci Am 130: 387 Je '24
Temperature variations in plants. Sci Am 131:321 N '24
See also Botanical chemistry; Rubber plants; Sap—Analysis; Seeds; Weeds

Chemical analysis
Colorimetric determination of carbohydrates in plants by the picric acid reduction method; the determination of starch and other reserve polysaccharides. W. Thomas. Am Chem Soc J 46:1670-5 Jl '24
Colorimetric determination of carbohydrates in plants by the picric acid reduction method; the estimation of reducing sugars and sucrose. W. Thomas and R. A. Dutcher. Am Chem Soc J 46:1662-9 Jl '24

Nitrogen content
Effects of the method of desiccation on the nitrogenous constituents of plant tissue. K: P. Link and E. R. Schulz. Am Chem Soc J 46:2044-50 S '24

PLANTS, Effect of light on
Carbohydrate production and growth in plants under artificial light. R. B. Harvey. il Illum Eng Soc 19:311-17; Discussion. 326-35 Ap '24
Discussion of the work at Boyce Thompson institute and its applications. W: Crocker. Illum Eng Soc 19:998-9 D '24
Effect of light during growth upon the cellulose content of red spruce. G: J. Druckerman. Paper Tr J 81:45-9 Jl 30 '25
Growing grass by artificial light. Illum Engr 17:109 Je '24
Influence of colored light on plant growth. S: G. Hibben. il diags Illum Eng Soc 19: 1000-10 D '24
Preliminary studies in the response of plants to artificial light. H. Findlay. il Illum Eng Soc 19:318-25; Discussion. 326-35 Ap '24
Rate of reproduction of lemna major as a function of intensity and duration of light. N. A. Clark. J Phys Chem 29:935-41 Ag '25
Stimulation of plant growth by means of electric lighting. V: A. Tiedjens. il Illum Eng Soc 19:1011-19 D '24
Summary of literature of some phases of the effect of light on plant growth. H: W. Popp. Illum Eng Soc 19:981-94 [bibliog. p. 992-4] D '24
Work to date at Boyce Thompson institute for plant research on effect of light on plant growth. J: M. Arthur. Illum Eng Soc 19: 995-7 D '24

PLASTER and plastering
Acoustics and plaster. il Sci Am 131:165 S '24
Adhesion of gypsum plaster to various backings. il diags Am Arch 128:227-34 S 9 '25
Analysis of the plasterer's trade. M. S. Lewis. 45p Univ. of California, Division of vocational education, Berkeley '24
Electrical resistance methods for the determination of the time of set of lime plaster. J. W. Stockett, jr. diag Am Soc T M Pro 24 pt 1:404-7 '24
Getting rid of efflorescence on gypsum plaster. F. C. Welch. Chem & Met Eng 31:263-4 Ag 18 '24
No accelerated set of gypsum plaster in clean mixers. Eng & Contr (Bldgs) 63:1370 Je 24 '25
Plaster for shower bath walls. Concrete 26:28-9 Ja '25
Present-day methods of plastering. F. Jay. diags Bldg Age 47:152+ Ap '25
Preventing cracked plastering. I. P. Hicks. diag Bldg Age 46:89+ Je '24
Sound insulating properties of partition walls (chiefly lath and plaster). E. A. Eckhardt and V. L. Chrisler. il diag Am Arch 128:405-11 N 5 '25
Stucco and plastering investigation. Am Inst Arch J 13:41 Ja '25
Wall plaster; its ingredients, preparation, and properties. U S Bur Stand Circ 151:1-66 '24
See also Cement; Concrete; Graffito decoration; Mortar; Stucco

Cost
Labor productivity and costs in certain building trades. E. Stewart. Monthly Labor R 19: 947-8, 953-6 N '24; Excerpt. Arch Forum 42: 30 Ja '25

Specifications
United States government master specifications for gypsum plaster. U S Bur Stand Circ 205:1-5 '25

PLASTER casts
How to make hollow-block plaster models. W: B. McKinlay. il Eng & Min J 120:445-51 S 19 '25
Rubber molds for plaster casts. il India Rubber W 70:441-2 Ap '24
Wear of reduction gear teeth measured from plaster casts. H. B. Chapman. il diag Power 60:983-4 D 16 '24; Same. Am Mach 62:51-2 Ja 8 '25

PLASTER of Paris
Patterns are made of plaster. W. C. Ewalt. diags Foundry 52:945-6 D 1 '24
See also Gypsum

Specifications
United States government master specification for calcined gypsum. diag U S Bur Stand Circ 206:1-6 '25

PLASTERERS
Throwing bricks at the plasterers. Comm & Fin 14:1667 S 2 '25

PLASTIC materials
Artificial resins and plastic substances. A. C. Hopper. diag Chem Age (Lond) 13:270-2 S 12 '25
Casein and its industrial applications. bibliog Soc Chem Ind J (Chem & Ind) 44:991-3 O 9 '25; Same. Can Chem & Met 9:224-5 O '25
Inorganic plastic. Chem Age 32:434 O '24
Plastische massen; die erzeugung, verarbeitung und verwendung von kunststoffen. H. Blücher. 291p S. Hirzel, Leipzig '24
See also Bakelite; Clay; Phenol condensation products

PLASTICITY
Determination of temperature of plasticity of coals. C. E. Foxwell. Ind & Eng Chem 17: 1161 N '25
Different types of plasticity of clays and kaolins. A. Bigot. Am Cer Soc J 7:(Cer A 3): 57-8 F '24
Discussion on plasticity. Am Cer Soc J (Bul) 7:375-9 O '24
Is plasticity of practical value? Chem & Met Eng 31:628-9 O 20 '24
Ostwald viscometer as a consistometer. W. H. Herschel and R. Bulkley. diag J Phys Chem 29:1217-23 O '25
Plasticity. E. C. Bingham. J Phys Chem 29: 1201-4 O '25

PLASTICITY—*Continued*

Plasticity and elasticity. E. C. Bingham. diags J Fr Inst 197:99-115 Ja '24

Plasticity and structure in gelatin systems. R. H. Bogue. J Phys Chem 29:1233-8 O '25

Plasticity as a means for control of properties. E. C. Bingham. Am Cer Soc J 7:430-2; Discussion. 432-6 Je '24

Plasticity as applied to viscose and artificial silk. C: S. Venable. charts J Phys Chem 29:1239-43 O '25

Plasticity control in rubber mixing. P. Beebe and R. B. Stringfield. Ind & Eng Chem 17: 295-7 Mr '25

Plasticity in relation to cellulose and cellulose derivatives. S. E, Sheppard and E. K. Carver. il diag J Phys Chem 29:1244-63 O '25

Plasticity in relation to gelatin. S. E. Sheppard. J Phys Chem 29:1224-32 O '25

Plasticity; its importance as a property of cotton. Textile World 65:3639+ My 31 '24

Plasticity of cellulose in cuprammonium hydroxide. E. K. Carver and H. Folts. diags Am Chem Soc J 47:1430-4 My '25

Plasticity of clay. W. D. Bancroft and L. E. Jenks. J Phys Chem 29:1215-16 O '25

Plasticity of cotton and other materials. F: T: Peirce. il diags Textile Inst J 14:T390-413 N '23; Abstract. Soc Dyers & Col J 40: 57-8 F '24

Plasticity of dental impression compound. W. S. Crowell and A. Saunders, jr. J Phys Chem 29:1267-81 O '25

Plasticity of rubber and its measurements. I. Williams. il Ind & Eng Chem 16:362-4 Ap '24; Same cond. India Rubber W 70: 516-17 My '24

Plasticity of single crystals. W. P. Davey. J Phys Chem 29:1211-14 O '25

Plasticity of starch paste. C. Bergquist. J Phys Chem 29:1264-5 O '25

Study of plasticity by practical potter's methods. P. E. Cox. Am Cer Soc J 7:151-3 Mr '24

Symposium on consistency. F. G. Breyer and H: Green. Am Soc T M Pro 23 pt 2:432-74 '23

Über das wesen der plastischen verformung. H. Hencky. Zeit Ver Deutsch Ing 69:695-6, 1253-4 My 16, S 26 '25

Use of plasticizers in lacquers. B. K. Brown. bibliog Ind & Eng Chem 17:568-9 Je '25

See also Viscosity

PLASTOMETER

Measurement of cup grease consistency by use of the plastometer. P. K. Porter and W. A. Gruse. Ind & Eng Chem 17:953-5 S '25

Microplastometer for studying plastic flow, determining viscosity of liquids, and yield value of paints. H: Green and G: S. Haslam. il Ind & Eng Chem 17:726-9 Jl '25

New combined viscometer and plastometer. E. C. Bingham and H. A. Murray, jr. diags Am Soc T M Pro 23 pt 2:655-62; Discussion. 663-8 '23

Simple plastometer for control use with dental creams. E. Moness and P. M. Giesy. diags J Phys Chem 29:1282-8 O '25

PLATE glass

Glass, paints, varnishes and brushes; their history, manufacture and use. 208p Pittsburgh plate glass co., Pittsburgh '23

Manufacture of plate glass for automobile uses. J. H. Fox. Soc Auto Eng J 15:449-55 N '24; Abstracts. Automotive Ind 51:759-60 O 30 '24; Bus Transportation 3:534 N '24; Discussion. Soc Auto Eng J 15:382; 16:464-7 N '24, Ap '25

Mechanical handling at River Rouge; successful innovations in plate glass manufacture. M: W. Potts. il Ind Management 68:104-6 Ag '24

National plate glass co. completes new power plant at Ottawa, Ill. il diags plans Power Pl Eng 29:1080-6 N 1 '25

New plant of Pittsburgh plate glass co. at Milwaukee. il Power 61:760-4 My 19 '25

Plate glass and the auto industry. Bradstreet's 52:423 Je 28 '24

Purchased power as applied to plate glass manufacture; substation built for the Crystal City plant A. L. Harrington. diags Am Inst E E J 44:463-8 My '25

Schleif- und poliervorrichtungen für spiegelglas; abstract. diags Elektrotech Zeit 45: 216-17 Mr 13 '24

Advertising

Advertising from the prospect's point of view. T: F. Walsh. Ptr Ink M 11:35+ Jl '25

PLATE glass insurance. See Insurance, Plate glass

PLATE metal

Testing

Tension testing of thin plate metals. N. S. Otey. il diag Iron Age 113:1008-9 Ap 3 '24

PLATE mills. See Rolling mills

PLATE printing

Principles and operating conditions of chromium plating; application of electrodeposited metal to face of printing plates. H. E. Haring. Chem & Met Eng 32:692-4 Ag '25; Abstract. Brass W 21:395-6 N '25

PLATE tightening machines

Pneumatic plate tightening machine. il diag Engineer 138:667 D 12 '24

PLATED fabric. See Knit goods

PLATES, Iron and steel

Effective net section of drilled plates. C. R. Young and W. B. Dunbar. il diags Can Eng 47:575-80 D 9 '24; Same. Eng & Contr (Bldgs) 63:853-62 Ap 24 '25; Discusston. E: Godfrey. Can Eng 48:115 Ja 6 '25

Fabricated steel plate bookings by months, for 1923 and 1924. Iron Age 115:614 F 26 '25

Gutters of steel plate 375 ft. long. diags Iron Age 115:1497-8 My 21 '25; Sheet Metal Worker 16:405 Jl 3 '25

Machining heavy steel plates for punch presses. A. L. Greene. il Am Mach 61:970-1 D 18 '24

Tests steel plates of Leviathan. G. B. Waterhouse. il Iron Tr R 75:229-30 Jl 24 '24; Same. Marine R 54:319-20 Ag '24

See also Boiler plates

PLATFORMS, Political

Democratic platform. Bradstreet's 52:429 Jl 5 '24

La Follette platform. Comm & Fin 13:1262 Jl 2 '24

Platform of American industry and its reception by the major political parties. J. A. Emery. Am Ind 24:5-7 Jl '24

Republican platform. Bradstreet's 52:381 Je 14 '24

Text of platform adopted at Republican national convention. Comm & Fin Chr 118: 2906-9 Je 14 '24

PLATINATES

See Haloplatinates

PLATING

Analysis of plating solutions. J. F. Donnelly. Brass W 20:213-14 Je '24

Heating and agitating the solution. H. E. Pelletier. diag Metal Ind 23:15 Ja '25

Plater executive. F. A. Shepherd. Brass W 21:191-3 Je '25

Platers, past and present. G: Gehling. Metal Ind 22:196 My '24

Plating research of the Bridgeport brass company. J: L. Christie. il Metal Ind 22:485-7 D '24

See also Bronzing; Copper plating; Electroplating; Galvanizing; Metal coating; Nickel plating; Silver plating; Tinning

PLATING machines

Daniels plating machine. il Brass W 20:325 S '24

PLATINUM

Adsorption of catalytically poisonous metals by platinum; the adsorption of lead and mercury. E: B. Maxted. Chem Soc J 127: 73-7 Ja '25

PLATINUM—*Continued*
Adsorption of water from the gas phase on plane surfaces of glass and platinum. I. R. McHaffie and S. Lenher. diag Chem Soc J 127:1559-72 Jl '25
Behavior of electrodes of platinum and platinum alloys in electrometric analysis; dissimilar electrodes. R. G. Van Name and F. Fenwick. Am Chem Soc J 47:9-19 Ja '25
Behavior of electrodes of platinum and platinum alloys in electrometric analysis; polarized electrodes. R. G. Van Name and F. Fenwick. Am Chem Soc J 47:19-29 Ja '25
Chemistry and jewelry making. C. M. Hoke. il Metal Ind 23:153-4 Ap '25
Curious occurrence of platinum. E. W. Ellis. il Eng & Min J 119:63-4 Ja 10 '25; Discussion. 119:372-3 F 28 '25
Discovery of platinum in Africa. P. A. Wagner and T. G. Trevor. il Brass W 20:263 Ag '24
Distribution of velocities among the electrons emitted by hot platinum in an atmosphere of hydrogen. H. H. Potter. diags Philos Mag 6th ser 46:768-84 N '23
Drawing small tubes of precious metals. J. Williams. il Am Mach 61:307-8 Ag 21 '24
Dredging for platinum in Colombia. Eng & Min J 120:298 Ag 22 '25
Effect of heat treatment on the photo-electric emission from platinum. F. G. Tucker. diags Phys R 22:574-81 D '23
Effects of gas upon the resistance and resistance-temperature coefficient of sputtered platinum films. F. W. Reynolds. Phys R 24: 523-31 N '24
Emission from an incandescent platinum wire in air. A. M. Tyndall and G. C. Grindley. diags Philos Mag 6th ser 47:689-702 Ap '24
History of the platinum metals. T: A. Wright. Brass W 20:69-70 F '24
Incident and emergent velocities of photoelectrons emitted from thin platinum films. Chien Cha. diag Philos Mag 6th ser 49:262-72 Ja '25
Interaction of hydrogen and carbon dioxide on the surface of platinum. C: R. Prichard and C. N. Hinshelwood. diag Chem Soc J 127:806-11 Ap '25
Journey to South Africa; the platinum boom. T. A. Rickard. il diag map Eng & Min J 120:334-7 Ag 29 '25
Negative ion emission from oxide coated filaments. H: A. Barton. Phys R 26:360-3 S '25
Platinized alundum cathodes in electroanalysis. W. G. France and T. S. Eckert. Ind & Eng Chem 16:802-3 Ag '24
Platinum. Economist 100:532-3 Mr 21 '25
Platinum and allied metals in 1923. J. M. Hill. U S Geol S Min Res of U S, 1923 pt 1:9-22 '24
Platinum boom in South Africa. Engineer 139: 443 Ap 17 '25; Economist 100:744-5 Ap 18 '25
Platinum discoveries in Wyoming. J: W. Finch. map Eng & Min J 120:95-6 Jl 18 '25; Discussion. A. F. Lindsley. 120:941 D 12 '25
Platinum fakers. A. L. Howard. Eng & Min J 116:902-3 N 24 '23
Platinum in 1923. J. M. Hill. Eng & Min J 117:92 Ja 19 '24
Platinum in 1924. J. M. Hill. Eng & Min J 119:91 Ja 17 '25
Platinum in southern Rhodesia. Eng & Min J 120:409 S 12 '25
Platinum in the Waterberg district. P. A. Wagner and T. G. Trevor. Eng & Min J 117:824 My 17 '24
Platinum lode found in Transvaal. Eng & Min J 16:1108 D 29 '23
Platinum metals. E. A. Smith. 123p Pitman '24
The platinum-palladium controversy in its relation to the jewelry industry. C: Engelhard, comp. 186p Charles Engelhard, Baker & co., inc., Newark, N.J. '24
Platinum situation. Comm M 6:12-13 Ap '25; Same. Econ W n s 29:550 Ap 18 '25
Production of platinum and allied metals declined in 1923. Eng & Min J 117:925 Je 7 '24
Proposed platinum stamping act legislation. J. M. Hill. Eng & Min J 117:800-1 My 17 '24
Recovery of platinum and palladium from copper refinery slime. Eng & Min J 117:655 Ap 19 '24
Some aspects of the platinum stamping law. C. M. Hoke. Metal Ind 22:362-3 S '24
Sterling marks for platinum. J. M. Hill. Chem & Met Eng 30:912-13 Je 9 '24
Studies on catalysis; the behavior of the amino group when cytosine and nitro-uracil are reduced in the presence of colloidal platinum. E. B. Brown and T. B. Johnson. Am Chem Soc J 46:702-8 Mr '24
Survey of the platinum metal industry. G. M. Dyson. diags Chem Age (Lond) 13:sup25-7 O 3 '25
Thermionic work function of oxide coated platinum. C. Davisson and L. H. Germer. Phys R 24:666-82 D '24
Thin films of platinum and nickel and catalytic activity. A. W. Gauger. diag Am Chem Soc J 47:2278-82 S '25
World's most prolific platinum producers in South Africa. O. Letcher. il map Eng & Min J 119:573-5 Ap 4 '25

Analysis
Assaying for platinum. W. H. Hampton. Eng & Min J 117:411-12 Mr 8 '24; Discussion. 118: 59 Jl 12 '24
Colorimetric determination of platinum by potassium iodide. E. G. R. Ardagh, F. S. Seaborne and N. S. Grant. diags Can Chem & Met 8:117-20, 140-2 My-Je '24
Investigations on the platinum metals; the analytical separation of rhodium from platinum. E: Wichers. Am Chem Soc J 46:1818-33 Ag '24

PLATINUM, Substitutes for
Production of an antique white gold finish without the use of platinum chloride. Brass W 21:100 Mr '25
Substitutes for platinum. E. A. Smith. Engineering 116:651-2 N 23 '23

PLATINUM alloys
Behavior of electrodes of platinum and platinum alloys in electrometric analysis; dissimilar electrodes. R. G. Van Name and F. Fenwick. Am Chem Soc J 47:9-19 Ja '25
Behavior of electrodes of platinum and platinum alloys in electrometric analysis; polarized electrodes. R. G. Van Name and F. Fenwick. Am Chem Soc J 47:19-29 Ja '25
Investigations on the platinum metals; the determination of iridium in platinum alloys by the method of fusion with lead. R. Gilchrist. U S Bur Stand Sci Pa 483:325-45 '24; Same cond. Am Chem Soc J 45:2820-8 D '23

PLATINUM black
Mechanism of the inhibition of the catalytic action of platinum black and partially reduced nickel oxide by chlorine. M. C. Boswell and C. H. Bayley. J Phys Chem 29: 11-19 Ja '25

PLATINUM chloride
Researches on residual affinity and co-ordination; interactions of trimethylstibine and platinic and palladous chlorides. G. T. Morgan and V: E. Yarsley. diag Chem Soc J 127:184-90 Ja '25

PLATINUM metals
Consumption of the platinum metals. J. L: Howe. Eng & Min J 118:13-15 Jl 5 '24
History of the platinum metals. T: A. Wright. Brass W 20:69-70 F '24
Investigations on the platinum metals; arc spectra of the platinum metals. W. F. Meggers. U S Bur Stand Sci Pa 499:19-45 '25
Investigations on the platinum metals; the analytical separation of copper from the platinum metals. W: H. Swanger and E: Wichers. Am Chem Soc J 46:1814-18 Ag '24
Investigations on the platinum metals; the analytical separation of rhodium from platinum. E: Wichers. Am Chem Soc J 46: 1818-33 Ag '24
Platinum metals. E. A. Smith. 123p Pitman '25

PLATINUM metals—*Continued*
Something about platinum and associates. Brass W 21:28-9 Ja '25

See also Iridium; Palladium; Rhodium

PLATINUM oxide
Platinum and palladium oxides as catalysts in the reduction of organic compounds; the reduction of olefins. J. W. Kern, R. L. Shriner and R. Adams. Am Chem Soc J 47:1147-58 Ap '25
Platinum oxide as a catalyst in the reduction of organic compounds; a study of the effects of numerous substances on the platinum catalysis of the reduction of benzaldehyde. W. H. Carothers and R. Adams. Am Chem Soc J 47:1047-63 Ap '25
Platinum oxide as a catalyst in the reduction of organic compounds; reduction of aminophenols to cyclic amino-alcohols. H. Heckel and R. Adams. Am Chem Soc J 47:1712-18 Je '25
Platinum oxide as a catalyst in the reduction of organic compounds; the preparation of primary alcohols by the catalytic hydrogenation of aldehydes. W. H. Carothers and R. Adams. Am Chem Soc J 46:1675-83 Jl '24
Platinum oxide as a catalyst in the reduction of organic compounds; the reduction of alkyl furyl carbinols. J. S. Pierce and R. Adams. Am Chem Soc J 47:1098-1104 Ap '25
Use of platinum oxide as a catalyst in the reduction of organic compounds; reduction of furfural and its derivatives. W. E. Kaufmann and R. Adams. Am Chem Soc J 45: 3029-44 D '23

PLAUSON colloid mill. See Colloid mill

PLAYER pianos
Piano playing mechanisms. W: B. White. 240p E. L. Bill, inc., New York '25

Advertising

Accessory maker grabs the buck. Ptr Ink 130: 33-4+ F 5 '25

PLAYGROUNDS
Children take leadership in playground safety. J. E. Thompson. Nat Safety N 12:40 O '25
Influence of zoning on the design of public recreation facilities. C. E. Brewer. Am Soc C E Pro 51:242-6 F '25
Making vacation safe for the kids. H. J. Norton. il Nat Safety N 9:37-8 My '24
Planning the summer program for community safety. C: M. Anderson. il Nat Safety N 11: 37-8 Ap '25
Playgrounds and child safety. Munic & Co Eng 69:113 Ag '25
Playgrounds, past and present. Nation's Health 6:711-12 O '24
Safety towns provide safe play for Baltimore kids. P. F. Stricker. il Nat Safety N 10: 7-8 O '24
Safety zones for outdoor play. M. T. Wood. il Nat Safety N 10:20 Jl '24

PLOWING

See Soil resistance

PLOWS

Manufacture

Plow grinding practice novel. F. B. Jacobs. il Foundry 51:956-9 D 1 '23

PLOWS, Electric
Rural electrification and electric ploughing. J. A. Sumner. Elec R (Lond) 97:607-8 O 16 '25

PLOWS, Motor
Exploding plow. il Sci Am 129:415 D '23
Four-furrow anti-balance cable plough; Empire exhibition. il Engineering 118:516 O 10 '24
Die kraftpflüge auf der letzten Pariser landmaschinenausstellung. Vormfelde. il diags Zeit Ver Deutsch Ing 68:1097-1100 O 18 '24
Motor-cable ploughing tractor. il diags Engineering 120:16, 25-7 Jl 3 '25
Punt ploughing tackle. il Engineering 119:716-17 Je 5 '25
Der stand des motorpflugwesens. Martiny. il diags Zeit Ver Deutsch Ing 69:829-33, 867-70, 923-8, 1189-94 Je 20-27, Jl 11, S 12 '25

PLUGS
Tool for refacing seats of washout plugs. H. O. Turnbull. diag Am Mach 63:322 Ag 20 '25
Turning and threading wooden plugs. J: J. Hill. diag Am Mach 62:1009-10 Je 25 '25

See also Electric fittings

PLUM stones. See Concrete construction—Plum stones

PLUMB bobs
Plumb bobs for the machinist and millwright. E. F. Creager. diags Am Mach 62:172 Ja 22 '25

PLUMBAGO. See Graphite

PLUMBERS
Do journeymen oppose apprentice training? Sanitary & Heat Eng 104:153-4 S 4 '25
Efficiency of our employees. W: G. Bergner. Sanitary & Heat Eng 102:1-2 Jl 11 '24
How can a journeyman plumber secure payment for his work and for the use of his automobile, where no arrangements were made as to the amount of his wages. Dom Eng 106:97+ Mr 29 '24
New apprenticeship plan. E. L. Bowman. Sanitary & Heat Eng 101:142-3 Mr 7 '24
Plumbing apprentice; report of the apprenticeship committee of New York. Sanitary & Heat Eng 101:250-1 Ap 18 '24
Problem of apprenticeship. E. L. Bowman. Sanitary & Heat Eng 100:314-15 N 16 '23; Same. Dom Eng 105:279-80 N 10 '23
Progress made in apprenticeship during the year. il Sanitary & Heat Eng 101:426-7 Je 27 '24
Recruiting and training apprentices. E. L. Bowman. Sanitary & Heat Eng 101:39-41 Ja 25 '24
Securing and training apprentices. J. S. Cassedy. Sanitary & Heat Eng 101:249-50 Ap 18 '24
Side lights on the apprenticeship problem. E. D. Vandenberg. Sanitary & Heat Eng 102: 20-2 Jl 11 '24
Solving the apprenticeship question. Sanitary & Heat Eng 100:376+ D 14 '23
Straight from the shoulder; apprentice training program. H. G. Wilson. Dom Eng 111: 37+ Je 13 '25
Supply and training of journeyman fitters. E. L. Bowman. Sanitary & Heat Eng 102:49-51+ Jl 25 '24
Wages in the steam fitting trade in 101 cities in the United States. Sanitary & Heat Eng 103:87 F 6 '25
You are his guardian. W: G. Bergner. Dom Eng 109:21 D 20 '24
Your indentured apprentice. R. G. Bookhout. Sanitary & Heat Eng 102:406-7+ D 12 '24

See also Plumbing; Plumbing trade

PLUMBERS' associations
Annual conference, 2d, of the secretaries of the National association of master plumbers and the Heating and piping contractors' national association, Evansville, Indiana, Jan. 14-16. Dom Eng 106:39-42+ Ja 26 '24; Sanitary & Heat Eng 101:46-9 Ja 25 '24
Annual conference, 3d, of secretaries of the National association of master plumbers and the Heating and piping contractors' national association, Evansville, Jan. 13-15. Dom Eng 110:20-3+ Ja 24; 31-3 Ja 31; 29-30+ F 7 '25; Sanitary & Heat Eng 103:49 Ja 23 '25
What good is the association? Sanitary & Heat Eng 100:312-13 N 16 '23
Why don't they join? the relationship of the plumbing contractor to the association in his town. O. G. Hughson. Sanitary & Heat Eng 104:222-3 O 2 '25

PLUMBING
Audels plumbers and steam fitters guide. F. D. Graham and T: J. Emery. T. Audel & co., New York '25
Brass and copper for water service and plumbing pipe. W: G. Schneider. Am Water Works Assn J 14:81-7; Discussion. 87-106 Ag '25; Abstracts. Eng N 94:570-1 Ap 2 '25; Pub Works 56:162 My '25

PLUMBING—*Continued*

Farm plumbing. G: M. Warren. il diags U S Agric Farmers' Bul 1426:1-34 '24

Forty years of plumbing; Hotel Savoy, London, England. A. W. Barnes. il diags Dom Eng 108:22-4+ Ag 23 '24; 110:35+ Ja 3 '25

Heating, plumbing, and ventilating the Straus building. E. W. Riesbeck. il plans Dom Eng 109:19-24 N 15; 26-30 N 22 '24

Johnson's new handy manual on plumbing, domestic and sanitary engineering, drainage and sewerage. J: W. Johnson. 13th ed. 401p J: W. Johnson, Wheaton, Ill. '25

Lake breezes+home comforts; floating home of the Chicago yacht club. il diags Dom Eng 108:31+ Jl 26 '24

Laying out the plumbing details for double bathrooms. J: K. Raymond. diags Dom Eng 106:42 Ja 12 '24

Layout for plumbing in a hotel kitchen. Dom Eng 110:37 F 28 '25

Morse system in Louisville. R. M. Starbuck. diags Dom Eng 110:29-30+ Mr 21 '25

Most modern plumbing installation in a most modern hospital; the German Evangelical Deaconess hospital of Chicago. E. W. Riesbeck. il diags Dom Eng 106:20-3 F 9 '24

Notes on plumbing. P. Balze. 54p Baron de Hirsch trade school press, New York '25

Odds and ends of plumbing information. R. M. Starbuck. diags Dom Eng 110:20-3 F 28 '25

Plumbing; a text-book to the practice of the art or craft of the plumber. E. G. Blake. 2v Lockwood & son, London '24

Plumbing equipment in commercial buildings. Bldg Age 46:93 Je '24

Plumbing for high buildings. G: Read. diag Am Water Works Assn J 13:28-32 Ja '25

Plumbing here and there. R. M. Starbuck. diags Dom Eng 111:29-30+ Ap 18 '25

Plumbing West, East, North, South. R. M. Starbuck, jr. diags Dom Eng 111:22-4+ My 2 '25

Sanitation and water supply in the modern hotel. C. R. Place. diags plan Arch Forum 39:265-8 N '23

Standard practical plumbing. R. M. Starbuck. 7th ed., rev. & enl. 432p Henley '23

Tests on the hydraulics and pneumatics of house plumbing. H. E. Babbitt. bibliog diags Ill U Eng Exp Sta Bul 143:1-80 '24; Excerpts. Eng & Contr (W W) 62:1077-8 N 12 '24; Abstract. Am Inst Arch J 13:115-16 Mr '25

That water supply. A. M. Strauss. Dom Eng 111:19-20 My 30 '25

Water supply of buildings and rural communities. W. S. L. Cleverdon. 186p Van Nostrand '25

See also Bathrooms; Drainage, House; Drinking fountains; Flushometer; Gas fittings; Heating; Heating pipes; Hot water supply; Lavatories; Mechanical equipment of buildings; Pipe fitting; Pipe fittings; Pipes; Plumbers; Plumbing fixtures; Plumbing shops; Plumbing trade; Sanitary engineering; Sewer pipes; Sewerage; Solder and soldering; Steam pipes; Swimming pools; Water closets; Water distribution; Water hammer; Water pipes

Cleanouts

Cleanouts. R. M. Starbuck, jr. diags Dom Eng 112:30+ Ag 1 '25

Drawing

Discussion of the wet vent. R. M. Starbuck, jr. diags Dom Eng 111:26+ My 16 '25

Drawing problem. diags Dom Eng 112:22-3 Jl 11; 22-3 Ag 8; 24-5 S 5; 24-5 S 19; 113:24-5 O 10; 30 O 24; 41 N 7; 24-5 N 28 '25

Pilot drawing in Washington, D. C. plumbing code. plan Dom Eng 112:20-1 S 5 '25

Schoolmaster and his class. R. M. Starbuck. diags Dom Eng 106:23 Ja 12; 20-3 Mr 15; 107:27 My 3; 25-6 My 17; 108:108+ Jl 5; 25-6+ Jl 19; 39+ Ag 30; 31-2+ S 13; 33-4+ S 20; 109:35+ O 11; 38+ N 1; 21-2 N 8; 27-30+ N 15; 47+ D 6; 35+ D 20 '24; 110:41+ Ja 24; 37-8+ F 7; 25-6+ F 21; 25-6+ Mr 7; 21-2 Mr 14; 111:24-6 Ap 4; 24-5 Ap 11; 29-30+ Ap 25; 30+ My 9; 30+ Je 6; 23-6 Je 20; 112:26+ Jl 25; 33+ Ag 8; 26+ Ag 22; 20-2 S 12; 113:33+ O 3; 33-4+ O 17; 33+ N 7; 37+ N 28; 37+ D 12; 32+ D 19 '25

Starbuck's incorrect drawing. Dom Eng 109: 55 N 1; 29-30 D 6; 22 D 20 '24; 110:28 Ja 3; 37 Ja 17; 29 F 28; 22-3 Mr 28; 111:33+ Ap 11; 29 My 2; 22-3 My 16; 39 Je 13 '25

Wet vent. R. M. Starbuck. diags Dom Eng 108:19-22 Jl 12; 20-3 Jl 26; 109:34+ O 25 '24

Estimates

Estimates for the plumber. R. M. Starbuck. diags Dom Eng 105:55-8, 158-61, 262-6, 360-3, 466-70, 526-9+, 624-7 O 13, 27, N 10, 24, D 8-15, 29 '23; 106:20-4 Ja 12; 26-8+ Ja 26; 24-7+ F 9; 25-6+ F 23; 26-8+ Mr 8; 33-7 Mr 22; 107:26-9 Ap 5; 26-8+ Ap 19; 24-8 My 3; 24-6+ My 31; 22-6 Je 14; 27-8+ Je 28 '24

How do you estimate labor? R. M. Starbuck, jr. Dom Eng 112:21-2 S 26 '25

Schoolmaster and his class. R. M. Starbuck. diags Dom Eng 105:320-4, 420-3+, 570-3 N 17, D 1, 22 '23; 106:88-93 Ja 5; 26-8+ Ja 19; 24-6+ F 2; 24-8 F 16; 20-3 Mr 15; 22-6 Mr 29; 107:20-7 Ap 12; 24-8 Ap 26; 20-4 My 10; 20-4 My 24; 37-8+ Je 7; 22-6+ Je 21; 108: 33+ Ag 16; 47+ S 6; 109:33+ O 4; 38+ N 1; 27-30+ N 15 '24

Some disputed plumbing questions. R. M. Starbuck. Dom Eng 108:34+ Ag 9 '24

They include overhead and fool the sheriff. Dom Eng 107:33-4 Ap 19; 17-19 My 17; 108: 37+ Jl 26 '24

Try it this way; how to make a quick and workable estimate. R. E. Dockham. plans Sanitary & Heat Eng 103:357-9; 104:39-40 My 29, Jl 24 '25

Grease basins

Grease basin. F. R. King. il diags Dom Eng 110:26+ Mr 28 '25

History

Three generations of plumbing. R. M. Starbuck, sr. and R. M. Starbuck, jr. diags Dom Eng 110:81+ Ja 10 '25

Safety devices and measures

Can compensation insurance premiums be reduced? Sanitary & Heat Eng 101:70-1 F 8 '24

How plumbers get hurt. il Sanitary & Heat Eng 101:265-8 My 2 '24

Standards

National standardization and plumbing code work. T: F. Hanley. Dom Eng 110:59+ Ja 10 '25

Report of the standardization committee. Dom Eng 112:120+ Jl 4 '25

Standardization and simplification of brass traps, boilers and tanks. Dom Eng 106:23-6 Mr 22 '24; Excerpt. Sanitary & Heat Eng 101:173-4 Mr 21 '24

Standardization committee report. Sanitary & Heat Eng 104:14-16+ Jl 10 '25

Standardization of brass traps. Dom Eng 110: 27-8 Ja 17 '25

Standardization of plumbing. J: H. O'Neill. Sanitary & Heat Eng 104:150-2 S 4 '25

Trap simplification adopted. Arch & Bldg 56:35 Ap '24; Same. Brass W 20:234 Jl '24

Study and teaching

Carnegie institute of technology to provide for national association scholarships. Sanitary & Heat Eng 103:269-70 Ap 17 '25

Carnegie plans another short course, November 17-19. il Dom Eng 113:19 O 31 '25

Classes for the apprentice at the State school of science, Wahpeton, N. D. il Dom Eng 109:27+ D 13 '24

Educating the apprentice. G: F. Reeke. Dom Eng 109:24+ D 6 '24

Every apprentice in school; the correspondence training division of the National trade extension bureau. Dom Eng 109:22-3 N 22 '24

Illinois masters go to school. Dom Eng 106: 55-6 F 9; 33-4+ F 16; 35-6+ Mr 1 '24

Illinois' short course; detailed proceedings. il Dom Eng 108:21-3 S 27; 109:21-3 O 4; 29+ O 11; 35+ O 18 '24

PLUMBING—Study and teaching—*Continued*
Outline of instruction in sanitation heating and ventilation. C. B. Connelly. il Sanitary & Heat Eng 102:122-3+ Ag 22 '24
Pennsylvania forms apprenticeship commission. Dom Eng 113:38 O 10 '25
Plumbing course to be taught in Constantinople. il Dom Eng 112:19-20 S 5 '25
Report of the committee on apprenticeship. Sanitary & Heat Eng 104:11-13 Jl 10 '25
Short course in plumbing and heating given by Carnegie institute of technology at Pittsburgh, November 12-14. Sanitary & Heat Eng 102:382-5 N 28 '24; Dom Eng 109:24-5 N 22; 29-30 N 29 '24
Teaching the teachers; conference for training instructors, Pittsburgh, February 16-28. Dom Eng 110:17-18 F 7 '25; Sanitary & Heat Eng 103:38-9 F 6 '25
Theodore Ahrens endows professorship at Carnegie. Dom Eng 113:25-6 O 31 '25

Tables, calculations, etc.

Some disputed plumbing questions. R. M. Starbuck. diags Dom Eng 108:29+ Ag 9 '24

Testing

Final test and inspection. A. E. Smith. diags Dom Eng 109:23-5 O 25 '24

Traps

Actions and effects of plumbing-system pressures. diags Dom Eng 109:33+ N 22 '24
How codes in various parts of the country regulate the use of kitchen catch basins and the disposal of acid wastes. R. M. Starbuck, jr. diags Dom Eng 112:22-4 Jl 18 '25
Main house trap. R. M. Starbuck. diags Dom Eng 108:25+ Ag 23 '24
Main trap in England. A. W. Barnes. diags Dom Eng 110:29-30+ Ja 24; 37-8+ Mr 14 '25
Mainly the main trap. R. M. Starbuck. diags plans Dom Eng 108:25-6+ S 6; 33-4+ S 20 '24
More plumbing tests at the University of Illinois. H. E. Babbitt and A. G. Dixon. il Dom Eng 113:24-6+ O 3 '25
Non-siphon trap. C. H. Nickerson. Dom Eng 110:25-6+ Ja 31 '25
Plumbing-system pressures—their actions and effects. diags Dom Eng 109:41+ N 29 '24
Right and wrong plumbing practices. R. M. Starbuck, jr. diags Dom Eng 111:42+ Je 13 '25
Something new on waste pipes and traps. il diags Dom Eng 109:21-3 O 4; 29+ O 11; 35+ O 18 '24
Standardization and simplification of brass traps, boilers and tanks. Dom Eng 106:23-6 Mr 22 '24; Excerpt. Sanitary & Heat Eng 101:173-4 Mr 21 '24; Same. Arch & Bldg 56: 35 Ap '24; Same. Brass W 20:234 Jl '24
Standardization of brass traps. Dom Eng 110: 27-8 Ja 17 '25
Use of the main trap in the United States and Canada. diags map Dom Eng 111:30+ My 30 '25

Ventilation

Are plumbing codes guessed at? R. M. Starbuck. Dom Eng 109:19-21 N 22; 25-6+ D 27 '24
Circuit and loop venting. R. M. Starbuck, jr. diags Dom Eng 112:23-6 Ag 15 '25
Circuit vents. A. E. Smith. diags Dom Eng 111:19-20+ Je 20 '25
Discussion of the wet vent. R. M. Starbuck, jr. diags Dom Eng 111:26+ My 16 '25
Loop and circuit venting. R. M. Starbuck. diags Dom Eng 109:41+ D 13 '24
More about the wet vent. diag Dom Eng 109: 47 D 13 '24
Non-siphon trap. C. H. Nickerson. Dom Eng 110:25-6+ Ja 31 '25
North American cities' venting methods. R. M. Starbuck. diags Dom Eng 110:21-5 Ja 3 '25
Plumbing-system pressures—their actions and effects. diag Dom Eng 109:41+ N 29 '24
Question of the three-inch stack. R. M. Starbuck, jr. diags Dom Eng 111:24-6+ My 23 '25
Recommended minimum requirements for plumbing in dwellings and similar buildings. diags Sanitary & Heat Eng 102:296-8 O 31 '24
Recommended minimum requirements for plumbing in dwellings and similar buildings. R. B. Hunter and L. W. Snyder. diags Sanitary & Heat Eng 104:285-7+, 323+, 388-90 O 30, N 13, D '25
Schoolmaster and his class. R. M. Starbuck. diags Dom Eng 108:31-2+ S 13; 36+ S 27; 109:35+ O 11; 47+ D 6; 35+ D 20 '24; 110: 25-6+ Mr 7; 21-2 Mr 14; 112:26+ Jl 25; 33+ Ag 8; 26+ Ag 22; 113:33-4+ O 17 '25
Unusual vents. A. E. Smith. diags Dom Eng 110:20-1 Mr 28 '25
Ventilation of closet bowls. il diags Dom Eng 108:27-8 S 20 '24
Ventilation of toilet rooms. R. M. Starbuck, jr. diags plan Dom Eng 113:19-22+ O 10 '25
Washed vent. R. M. Starbuck, jr. diags Dom Eng 112:25-6+ Ag 29 '25
Wet vent. R. M. Starbuck. diags Dom Eng 108:19-22 Jl 12; 20-3 Jl 26; 109:34+ O 25 '24

See also Plumbing—Traps

PLUMBING contracts
Has an architect any right to charge a plumber with bill for repairing latter's work without notice? Dom Eng 109:35-6 N 8 '24
Overhead and operating charges under contract for work on a time and material basis. Dom Eng 109:42 D 20 '24

See also Building contracts

PLUMBING fixtures
Grading of brass goods. Dom Eng 105:427-9 D 1 '23
Plumbers' plumb the question; grading of cast brass goods for quality. Dom Eng 106:45-6 Ja 19 '24

See also Bathrooms

Advertising

Advertising saves a market undermined by seconds. Ptr Ink 131:167-8 Ap 16 '25

Prices

Wholesale prices of plumbing fixtures. Sanitary & Heat Eng 101:168 Mr 21 '24

Terminology

Nomenclature for plumbers' brass goods adopted by National association of brass manufacturers. Sanitary & Heat Eng 100:437 D 28 '23; Same. Metal Ind 22:22 Ja '24

PLUMBING laws and regulations
Are plumbing codes guessed at? R. M. Starbuck. Dom Eng 109:19-21 N 22; 26-8 N 29; 25-6+ D 27 '24
Cleanouts. R. M. Starbuck, jr. diags Dom Eng 112:30+ Ag 1 '25
Garage drainage. R. M. Starbuck, jr. diags Dom Eng 112:33+ Jl 11 '25
Has unlicensed person right to repair faucets and run water pipes in ditches in state which requires that plumbers be licensed? Dom Eng 110:43+ Mr 28 '25
How codes in various parts of the country regulate the use of kitchen catch basins and the disposal of acid wastes. R. M. Starbuck, jr. diags Dom Eng 112:22-4 Jl 18 '25
Indirect drainage connections. R. M. Starbuck, jr. diags Dom Eng 113:20-2+ O 24; 29-30+ O 31 '25
Pertinent points on the proposed plumbing code. T: F. Hanley. Dom Eng 107:69-70 Je 7 '24
Recommended minimum requirements for plumbing in dwellings and similar buildings. il charts diags plans U S Bur Stand Elimination of Waste Ser 260p '24; Excerpts. Sanitary & Heat Eng 101:344-6, 378-80; 102: 3-6+, 40-3, 116-18, 152-4, 189-90+, 222-4, 265-6, 296-8, 335-8+, 402-5+; 103:120-2, 185-6, 328-9; 104:82-3, 208-9+, 285-7+, 323+, 388-90 My 30-Je 13, Jl 11-25, Ag 22-O 31, N 14, D 12 '24, F 20, Mr 20, My 15, Ag 7, O 2, 30, N 13, D '25; Excerpt. Am Arch 126:247-8 S 10 '24; Abstracts. Munic & Co Eng 67:31-2 Jl '24; Am Inst Arch J 12:458 O '24

PLUMBING laws and regulations—*Continued*
Recommended minimum requirements for plumbing in dwellings and similar buildings; discussion. A. L. Webster. Am Water Works Assn J 13:418-23 Ap '25
Reducing the cost of housing by eliminating unnecessary plumbing code requirements. G: C. Whipple. Arch & Bldg 56:45-8 My '24
Twenty basic plumbing principles. Sanitary & Heat Eng 103:104-5 F 20 '25
Use of the main trap in the United States and Canada. diags map Dom Eng 111:30+ My 30 '25
Who is right? roof drainage, sizes of rain leaders, house drains etc. R. M. Starbuck. diags Dom Eng 110:24-8 F 14 '25

See also Plumbing contracts

PLUMBING shops
All the fixin's; A. Boyd Thorn's establishment, Clearfield, Pa. il Dom Eng 111:16-19 Je 27 '25
Are you keeping your business abreast the times? A. A. Mills & co., of New Britain, Conn. il Sanitary & Heat Eng 104:174-5 S 18 '25
Beck sales campaign. Sanitary & Heat Eng 103:389-92 Je 12 '25
Preach sanitation, and practice it. H. F. Baillet. Dom Eng 111:26+ My 9 '25
Selling the shop on wheels. il Dom Eng 110: 51 Mr 14 '25
"A shop where it stops." il diags plan Dom Eng 109:25-7 O 11 '24
Truth about the oil burner market. il Dom Eng 106:17-20 Mr 29 '24
Way down near Green river; Owensboro plumbing & heating co. Y. Adams. il plans Sanitary & Heat Eng 104:78-9 Ag 7 '25

Management

Better production management is one of greatest needs of sanitary and heating industries. F. Steele. Sanitary & Heat Eng 101:99-101+ F 22 '24
Does it pay the sanitary contractor to employ a clerk or bookkeeper? F. Steele. Sanitary & Heat Eng 100:374-6 D 14 '23
Getting the dough out of your windows. M. Smith. il Dom Eng 106:17-18 Ja 12 '24
Methods that save losses in keeping track of stock. F. Steele. Sanitary & Heat Eng 100: 339-40+ N 30 '23
Twisted leg; selling gas appliances in plumbing shops. P. E. Charleston. il Dom Eng 106:17-19 Ja 19 '24
Value of window and store display. W: G. Bergner. il Sanitary & Heat Eng 102:215-17+, 262-5 O 3-17 '24

PLUMBING supplies industry
Plumbing supply trade holding up well. Dun's R 32:8+ Ap 26; 8+ Ag 23 '24
Slight increase in plumbing supply sales. Dun's R 33:9-10 Je 6 '25
Sustained demand for plumbing supplies. Dun's R 33:8-9 O 3 '25

PLUMBING trade
Accomplishments of 1924—the possibilities of 1925; symposium. Sanitary & Heat Eng 102: 438-53; 103:14-15+ D 26 '24-Ja 9 '25
Are you sanitary and heating jobbing contractors making the profit you should? il Sanitary & Heat Eng 104:242-3 O 16 '25
Backing up your salesman with a sales letter. J. K. Novins. Sanitary & Heat Eng 102:7 Jl 11 '24
Cashing in on cartons. C: H. Bishop. il Sanitary & Heat Eng 100:310-11, 432-3 N 16, D 28 '23
Competition, overhead and profit. J: Reinartz. il Dom Eng 109:17-20+ N 8; 23-5+ N 29 '24
Figuring profits. W: F. Zimmermann. Dom Eng 112:19-20 Ag 15 '25
Finance and credits. T. G. Reardon. Dom Eng 109:37+ D 27 '24
General study of the business outlook and opportunities for 1924. Sanitary & Heat Eng 100:416-28 D 28 '23
General study of the business outlook and opportunities for 1925; symposium. Sanitary & Heat Eng 102:456-63 D 26 '24
Have you a business policy? H. F. Baillet. Sanitary & Heat Eng 104:257-8 O 16 '25
His business is the selling of health. F. R. King. il Dom Eng 106:17-19+ F 16 '24
How Republic brass won a place in the sun with the jobbers. Sales Management 8:881-2 Je 13 '25
How would you like to have a volume of $4,000,000 yearly? the Thomas Haverty co., Los Angeles. M. Marvels. il Dom Eng 112: 16-19+ Ag 29 '25
Listing real prospects; taking a sanitary and heating census in cooperation with Public health department. Dom Eng 107:17-19 Je 14 '24
Make an order an order. Dom Eng 110:15 F 28; 19-20 Ap 4; 111:23-4 My 9; 24-6+ Je 27 '25
Merchant plumber. Dom Eng 112:18-19 Ag 22 '25
Milt Marvels finds a firm which solves the question of meeting competition. il Dom Eng 111:17-19 Ap 11 '25
1923 has been a good year—what will 1924 bring forth; reviews of work accomplished by a number of popular and successful sanitary and heating contractors. Sanitary & Heat Eng 100:404-15 D 28 '23
Photographs help sales. A. G. King. Dom Eng 111:36 My 9 '25
Ruinous price cutting. H. A. Call. Sanitary & Heat Eng 102:434-7; 103:6-8+, 40-1, 72-3+, 108-9, 143-4, 180, 216-17, 252-3, 286-7, 326-7, 360-1, 398-9, 436-7; 104:42-3, 72-3, 116-17+, 146-7, 176-7+ D 26 '24-Je 26, Jl 24-S 18 '25
Should women sell plumbing goods. M. L. Harms. Dom Eng 106:95-6 Ja 5 '24
Shyster jobber is a barnacle on the industry. H. A. Call. Sanitary & Heat Eng 101:31-2, 102-3, 167-8, 238-9, 302-3+, 387-8 Ja 25, F 22, Mr 21, Ap 18, My 16, Je 13 '24
Specialty helps sale of plumbing. M. Marvels. il Dom Eng 111:16-18 My 9 '25
Stoddard's high-priced; the store Berkeley, Calif., thinks of as high in prices. il Dom Eng 112:19-21 Jl 11 '25
3d annual conference of advertising and sales managers of the National trade extension bureau, Evansville, Oct. 29-31. Dom Eng 105: 275-8+ N 10 '23
Voice of the leaders; their constructive messages foresee greater progress in all branches of the field. Dom Eng 110:50-5+ Ja 10; 39+ Ja 17 '25
What are we waiting for? G: F. Reeke. Dom Eng 106:19 Ja 12 '24
What brings success? M. Marvels. il Dom Eng 109:19-21 O 18 '24
Woman's possibilities in the jobbing field. M. T. Stevens. Sanitary & Heat Eng 104: 210-11 O 2 '25
Worth while ideas gathered here and there. C: J. Samuel. Sanitary & Heat Eng 104:185+ S 18 '25

See also Plumbing fixtures; Plumbing laws and regulations; Plumbing shops; Plumbing supplies industry; *also* National trade extension bureau

Accounting

Business analysis versus the annual statement. H. F. Baillet. Dom Eng 110:31-2 Ja 3 '25
Correct costs at little expense. G. G. Thompson. chart Management & Adm 8:517-20 N '24; Same. Paper Tr J 79:59-62 D 4 '24
Cost of doing business. H. F. Baillet. Dom Eng 105:357-9, 567-9 N 24, D 22 '23; 106:19-20 Ja 26; 39-40+ F 23; 38+ Mr 22; 107:41-2+ Ap 26; 17-19 My 24; 37-8+ Je 28 '24
Do you include your overhead expense? Dom Eng 106:46 Mr 29 '24
Labor production. W: F. Zimmermann. Dom Eng 113:26+ O 10 '25
O.H.E. on the small job. H. F. Baillet. Dom Eng 111:38 My 2 '25

Advertising

Advertising and merchandising of plumbing and heating materials. C: J. Samuel. Sanitary & Heat Eng 101:389 Je 13 '24

PLUMBING trade—Advertising—*Continued*
Business getting letters. F. Farrington. Sanitary & Heat Eng 101:299-301 My 16 '24
Interest the public. M. Marvels. il Dom Eng 113:16-18 O 3 '25
Make drives for holiday sales. F. Farrington. Sanitary & Heat Eng 100:337-8 N 30 '23
Making good use of manufacturers' circulars. J. K. Novins. Sanitary & Heat Eng 100:355 N 30 '23
Outside view of outdoor advertising. il Dom Eng 106:17-19 F 9 '24
Pertinent advertising ideas. Sanitary & Heat Eng 102:340-1, 408; 103:5, 111-12+, 288-9; 104:76-7 N 14, D 12 '24, Ja 9, F 20, My 1, Ag 7 '25
Planning direct advertising in the plumbing field. R. E. Ramsay. Inland Ptr 76:79-82 O '25
Practical angles on advertising. K. L. Thorn. Dom Eng 109:23 N 8 '24
Reaching the public. R. G. Bookhout. Sanitary & Heat Eng 103:1-4+ Ja 9 '25
Why advertise collectively? H. E. Jones. Sanitary & Heat Eng 101:67-9+, 144, 174-5 F 8, Mr 7, 21 '24
Winning the easy extra profits during the holiday season. F. Steele. Sanitary & Heat Eng 100:308-9+ N 16 '23

See also Plumbing fixtures—Advertising

Exhibitions

Exhibits reflect great progress at 43d annual convention of National association of master plumbers. il Dom Eng 112:65-8+ Jl 4 '25; Sanitary & Heat Eng 104:24-7 Jl 10 '25
Influencing public opinion; new thought in advertising tried out by Philadelphia master plumbers' association. Sanitary & Heat Eng 103:175-7+ Mr 20 '25
With the exhibitors at the 42d convention of National association of master plumbers. Sanitary & Heat Eng 101:428-31 Je 27 '24; Dom Eng 108:84-6+ Jl 5 '24

Farm market

Milt Marvels visits a county fair. il Dom Eng 112:16-17+ S 12 '25
Selling the farmer. Dom Eng 107:21-3+ Ap 26 '24

Partial payment plan

Financing plumbing installations. A. W. Buschmann. Eng & Contr (W W) 62:594-5 S 10 '24
Partial payment plan for plumbing or heating contractors. Sanitary & Heat Eng 104: 113, 248-9, 277 Ag 21, O 16-30 '25
Partial payments; shall sanitary and heating contractors adopt the "time payment plan"? R. G. Bookhout. Sanitary & Heat Eng 103: 396-7, 434-5; 104:36-8, 75+, 139-40 Je 12-26, Jl 24-Ag 7, S 4 '25; Excerpts. Sheet Metal Worker 16:518-19, 586-7, 622-3, 651-2+ Ag 14, S 11-O 9 '25
Stimulating activity in plumbing; Buschmann paying plan. A. W. Buschmann. Am Water Works Assn J 14:315-19; Discussion. 319-21 O '25

PLUSH
Manufacture of plushes. M. A. Belkoff. Textile World 66:225+ Jl 12 '24
Plush trade busy. Textile World 66:2373 O 25 '24

See also Dyes and dyeing—Plush

PLYMETL
New materials in car body construction; steel covered laminated wood panels. J: A. Dewhurst. il diags Elec Ry J 64:549-52 O 4 '24
Plymetl girder used in construction of new street car body. diag Automotive Ind 51: 889 N 20 '24

PLYWOOD
Plywood and metal-faced plywood. A. Elmendorf. Aviation 19:215 Ag 24 '25
Rubber plywood rigid and non-rigid. il India Rubber W 69:293-4 F '24
Veneer-cutting lathe for plywood. il diag Engineering 120:182 Ag 7 '25

PNEUMATIC conveying
Continental pneumatic postal tube installation. diags Ind Management (Lond) 10:283-5 N 15 '23
Conveying pulverized materials. diag Chem & Met Eng 30:360-1 Mr 3 '24
Designed for one saving—makes three; pneumatic lifting. il Factory 34:61 Ja '25
Experimental investigation of a pneumatic grain-conveying unit. diags Mech Eng 46: 548-50 S '24
Die experimentelle untersuchung des pneumatischen fördervorganges. Gasterstädt. il diags Zeit Ver Deutsch Ing 68:617-24 Je 14 '24
Floating pneumatic grain elevators for the port of London. il diags Engineer 139:296-8, 300 Mr 13 '25
Handling materials by air in industry. C: L. Hubbard. il diags Ind Eng 83:427-31+ S '25
How we speeded up the day's work. J: B. Gaylord. System 46:510-11 O '24
Die mechanisierung des innenverkehrs nach ausführungen der A. G. Mix & Genest, telephon- und telegraphen-werke abt. rohrpost und förderanlagen. C. Beckmann. il diags Elektrotech Zeit 46:1540-7 O 8 '25
Money-saving material handling; data on conveyors, cranes, and hoists with cost tables. G: E. Hagemann. Management & Adm 9: 153 F '25
Pneumatic conveying of materials. M: W. Potts. il diags plans Ind Management 67:9-15 Ja '24
Pneumatic conveying of pulverized coal—blow-tank method. I. G. Coutant. diag Power 60:215-16 Ag 5 '24
Pneumatic flue dust conveyors. K. Wagner. diags plans Cassier's Ind Management 11: 330-2 Je '24
Pneumatic grain elevators. W. Cramp and A. Priestley. Engineer 137:34-6, 64-5, 89-90, 112-13 Ja 11-F 1 '24
Pneumatic handling and revivification of ox ide. il Gas J (Lond) 170:527-8 My 20 '25
Pneumatic handling devices patents upheld. Eng N 95:443 S 10 '25; Munic & Co Eng 69:149-51 S '25
Pneumatic handling of granulated chemicals. A. F. Mellen. Eng N 94:857 My 21 '25
Pneumatic handling of red hot rivets. G: F: Zimmer. il diag Cassier's Ind Management 11:19-21 Ja 10 '24
Pneumatic mail tubes and operation of automatic railroads. K. E. Stuart. il Sibley J 37:161-5+ O '23
Pneumatic transport plants. W: Cramp. il diags Soc Chem Ind J 44:207-10, 211-13 My 1-8 '25
Recent developments in pneumatic conveying. E. G. Phillips. bibliog il diags Cassier's Ind Management 12:67-73 Ja '25
Unloading system for extractors and dye tubs. il Textile World 67:3149 My 9 '25
Wirtschaftlichkeit von hausrohrpostanlagen. J. Fritz. diags Zeit Ver Deutsch Ing 68:681-3 Je 28 '24

Specifications

Outline of tentative specifications for pneumatic tube system. Am Arch 126:549-50 D 3 '24

PNEUMATIC hammers
Da Costa pneumatic gravity drop hammer. il Am Mach 62:179-80 Ja 22 '25
Holman pneumatic riveting tools. il diags Engineering 120:542 O 30 '25
Pneumatic riveting device. T: R. Chambers. diag Mach 31:813 Je '25
Pneumatic riveting hammer. il Management & Adm 7:100 Ja '24
Repair and maintenance of air hammers. E. A. Hildebrandt. Ry R 75:390-1 S 13 '24
Use of pneumatic tools for remaking lead joints. H. J. Escreet. Gas J (Lond) 165: 260-1; Discussion. 261-2 Ja 30 '24

PNEUMATIC motors. See Air engines

PNEUMATIC presses
Chambersburg hydro-pneumatic press 300-ton. il Am Mach 63:373 Ag 27 '25
Combined air and hydraulic press. C. B. Lain. diag Elec Ry J 66:246 Ag 15 '25

PNEUMATIC presses—*Continued*
Pneumatic press. H. M. Clary. il Am Mach 63:323 Ag 20 '25
Pneumatic press for driving box shells. E. A. Miller. diags Ry Mech Eng 99:519-20 Ag '25

PNEUMATIC tools
Care and maintenance of pneumatic tools. C: B. Beingarten. Ry R 75:596-7 O 18 '24
Cleveland pneumatic grinding machine. il Iron Age 113:1568 My 29 '24
Cost of wrecking brick buildings by pneumatic tools. D. A. Slattery. Eng & Contr (Bldgs) 61:211 Ja 23 '24
Ling pneumatic drill. il diags Engineer 139: 442 Ap 17 '25
Pneumatic equipment for breaking ice and frozen ground. V. H. Van Diver. il Munic Eng 67:138-9 Mr '24; Same. Eng & Contr (R & S) 61:547-8 Mr 5 '24; Same. Gas Age 53:319-20 Mr 15 '24
Pneumatic plate tightening machine. il diag Engineer 138:667 D 12 '24
Pneumatic punch for cutting leather washers. J. Williams. il Am Mach 62:210 Ja 29 '25
Portable pneumatic equipment reduces track reconstruction cost. C. A. Elliott. il Elec Ry J 63:613-15 Ap 19 '24; Same. Eng & Contr (Ry) 62:421-3 Ag 20 '24
Repair and maintenance of pneumatic tools. E. A. Hildebrandt. Ry Mech Eng 98:689-90 N '24
Rotary type air engine in portable pneumatic tools. il diag Automotive Ind 53:573 O 1 '25
Warner & Swasey portable pneumatic grinders. il diags Iron Age 115:413 F 5 '25
Work with compressed air tools on London tubes. B: Lee. il Eng & Contr (Ry) 62: 1107-8 N 19 '24

See also Cement gun; Pneumatic hammers

Repair

Repair and upkeep of pneumatic tools. R. W. Wilson. il Engineer 137:182-3 F 15 '24; Same. Engineering 117:219-20 F 15 '24; Discussion. Engineer 137:166-7, 222-3 F 15, 29 '24; Engineering 117:202-3, 277-9 F 15, 29 '24

PNEUMATIC tubes. See Pneumatic conveying

PNEUMATICS
Tests on the hydraulics and pneumatics of house plumbing. H. E. Babbitt. bibliog diags Ill U Eng Exp Sta Bul 143:1-80 '24; Excerpts. Eng & Contr (W W) 62:1077-8 N 12 '24

See also Aerodynamics; Air flow; Compressed air; Gases

PNEUMONIA
Pneumonia death rates among the industrial populations of American states and Canadian provinces. Econ W n s 28:853-4 D 13 '24
Use of pneumococcal vaccine. S. Lister. bibliog J Ind Hygiene 6:45-56 Je '24

PNEUMONOKONIOSIS. See Lungs—Dust diseases

POCATELLO, Idaho
Engineering in the small city. Eng N 95: 627-8 O 15 '25

POCKETBOOK workers. See Leather workers

POELZIG, Hans
On Hans Poelzig by Hans Poelzig; a contribution to modern architecture. il plan Am Arch 128:253-63 S 23 '25

POINT Barrow, Alaska
Storekeeping on top of the world. F. S. Tisdale. il Nation's Business 13:33-5 Jl '25

POINTING machines
Kent capscrew-pointing and shaving machine. il Am Mach 62:596 Ap 9 '25; Iron Age 115: 1047 Ap 9 '25; Mach 31:741 My '25
Waterbury Farrel pinch pointing machine. il Am Mach 61:861 N 27 '24; Iron Age 114: 1403 N 27 '24; Mach 31:326 D '24

POISON gases. See Gases, Asphyxiating and poisonous

POISON ivy. See Poisonous plants

POISONOUS plants
Poison ivy, oak and swamp sumac. G. R. G. Fisher. il Nation's Health 7:404-5 Je '25

POISONS

See also Arsenic; Gases, Asphyxiating and poisonous; Nickel—Physiological effect; Phenol; Tetrachlorethane

Transportation

Package specifications for transportation of poisons are amended by the I.C.C. Oil Paint & Drug Rep 108:22+ Ag 17 '25
Report on transportation and interstate commerce. Oil Paint & Drug Rep 108:22+ Jl 20 '25

POISONS, Industrial
Carbon tetrachloride or carbon bisulphide. E. R. Hayhurst. Oil Paint & Drug Rep 108:xiii-xiv pt 2 O 5 '25; Same. Rubber Age 18:88-91+ N 10 '25
Chemical poisons in industry. A. Renshaw. Chem Age (Lond) 12:224-5 Mr 7 '25; Same cond. Soc Chem Ind J (Chem & Ind) 44:283-4 Mr 13 '25
Effect of hydrofluoric-acid fumes. Monthly Labor R 19:901 O '24
Industrial poisoning by aromatic compounds. D. H. Killeffer. Ind & Eng Chem 17:820-2 Ag '25
Industrial poisoning by inhalation. L. Preti. J Ind Hygiene 7:124-43 Mr '25
Industrial poisons and diseases in British factories. Monthly Labor R 20:157-9 Ja '25
Industrial poisons and their causes. V. E. Henderson. Chem Age (Lond) 12:554-5 Je 6 '25
Industrial poisons in the United States. A. Hamilton. 590p Macmillan '25
Rubber worker's compensation claim. Chem Age (Lond) 11:498 N 15 '24
Systemic poisoning by hair dye. Monthly Labor R 18:1126-7 My '24
Toxicity of industrial solvents. E. Kohn-Abrest. Chem Age 32:199-201 Ap '24

See also Arsine; Benzene poisoning; Brass poisoning; Carbon monoxide; Chromium poisoning; Cyanide poisoning; Dye poisoning; Hexamethylenetetramine; Hydrogen sulfide; Lead poisoning; Mercury poisoning; Phosporous poisoning; Tetrachlorethane; Tetraethyl lead; Trinitrotoluene

POISSON'S ratio
Apparent value of Poisson's ratio for beams of varying cross-section. H. W. Baker. diags Philos Mag 6th ser 48:1080-4 D '24
Determination of Poisson's ratio and a suggestion for its use in stress analysis. T. M. Jasper. Am Soc T M Pro 24 pt 2:1012-20; Discussion. 1021-3 '24
Direct measurement of Poisson's ratio for concrete. A. N. Johnson. bibliog il diags Am Soc T M Pro 24 pt 2:1024-33; Discussion. 1034-5 '24

POKODOT cereal company, Fargo, North Dakota
Advertising to give trade name generic meaning. Ptr Ink 125:52+ D 13 '23

POLAND
International position of Poland. Economist 100:528-9, 603-4, 660-1, 717, 762-3 Mr 21-Ap 18 '25
Poland emerging from financial and business chaos following the world war. H. Barney. Manuf Rec 87:35-6 F 19 '25
Slavonic nations of yesterday and today. M. S. Stanoyevich. p. 203-65 [bibliog. p. xiii-xivi] H.W. Wilson co. '25

See also Banks and banking—Poland; Bonds, Government—Poland; Commercial law—Poland; Debts, Public—Poland; Electric industries—Poland; Finance—Poland; Immigration and emigration—Poland; Labor and laboring classes—Poland; Labor laws and legislation—Poland; Petroleum—Poland; Railroads—Poland; Textile industry—Poland; Wages—Poland

POLAND—*Continued*

Economic conditions

Financial and commercial conditions in Poland. Economist 99:237-8, 1004-6 Ag 9, D 20 '24; Econ W n s 29:871-2 Je 20 '25

Poland; the new bank of issue—new currency system—increased revenues—trade balance. Economist 98:916 My 3 '24

Industries and resources

Commercial war in Upper Silesia. Economist 101:566-7, 606-8 O 10-17 '25

Trip through group of Polish textile mills. G. L. Carden. il Textile World 66:467-8 Jl 26 '24

Sanitary affairs

Public health problems in Poland. W. Chodzko. map Nation's Health 6:467-8+ Jl '24

POLAR exploration. See Arctic exploration

POLARIMETER

Polarimeter and its practical applications. C. A. Skinner. il diags J Fr Inst 196:721-50 D '23

POLARITY (chemistry)

Electron displacement in carbon compounds; electron displacement versus alternate polarity in aliphatic compounds. H. J. Lucas and A. Y. Jameson. Am Chem Soc J 46: 2475-82 N '24

Electron displacement in carbon compounds; hydrogen bromide and 2-pentene. H. J. Lucas and H. W. Moyse. Am Chem Soc J 47:1459-61 My '25

Electron displacement in carbon compounds; polarity differences in carbon-hydrogen unions. H. J. Lucas, T: P. Simpson and J. M. Carter. Am Chem Soc J 47:1462-9 My '25

Hydrolysis, and the theory of induced alternate polarities; abstract and discussion. D. R. Boyd. Soc Chem Ind J (Chem & Ind) 43:664-5 Je 27 '24

Induced alternate polarities in a carbon chain on the basis of Bohr's theory. K. Höjendahl. diags Chem Soc J 125:1381-8 Je '24

Induction of alternate polarities, especially in relation to the extent and intensity of transmission. A. Lapworth. Soc Chem Ind J (Chem & Ind) 44:397-8 Ap 17 '25

Nature of the alternating effect in carbon chains. C. K. Ingold and E. L. Holmes. Soc Chem Ind J (Chem & Ind) 44:563 My 29 '25; Discussion. 44:607-8, 639-40 Je 12-19 '25

Nature of the alternating effect in carbon chains; a comparative study of the directive efficiencies of oxygen and nitrogen atoms in aromatic substitution. E. L. Holmes and C. K. Ingold. Chem Soc J 127:1800-21 Ag '25

Nature of the alternating effect in carbon chains; the directing influence of the α-methoxyvinyl group in aromatic substitution. C. K. Ingold and E. H. Ingold. Chem Soc J 127:870-5 Ap '25; Excerpt. Soc Chem Ind J (Chem & Ind) 44:227; Discussion. 227-8 F 27 '25

Optical activity and the polarity of groups attached to the asymmetric atom. H. G. Rule. Chem Soc J 125:1121-34 My '24; Discussion. Soc Chem Ind J (Chem & Ind) 43: 851-2, 917-18, 1010, 1214 Ag 22, S 12, O 10, D 5 '24

Polarity and activation. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 44:970-2 O 2 '25

Polarity effects in aromatic halogen compounds. J: B. Shoesmith, A. C. Hetherington, and R. H: Slater. Chem Soc J 125:1312-19 Je '24

Polarity effects in the isomeric ω-bromoxylenes and isomeric iodotoluenes. J: B. Shoesmith and R. H: Slater. Chem Soc J 125: 2278-83 N '24

Polarization of nitrosobenzene. R. Robinson. Soc Chem Ind J (Chem & Ind) 44:456-8 My 1 '25

Relation between the structure of organic halides and the speed of their reaction with inorganic iodides; the problem of alternating polarity in chain compounds. J. B. Conant and W. R. Kirner. Am Chem Soc J 46:232-52 Ja '24; Discussion. 47:585-9 F '25

Theories of polar and non-polar free affinities; a practical and theoretical reply to some recent criticisms and comparisons. G: N. Burkhardt and A. Lapworth. Chem Soc J 127:1742-50 Jl '25

POLARIZATION (electricity)

Method of studying electrode potentials and polarization. H. D. Holler. il U S Bur Stand Sci Pa 504:153-66 '25

Relation between polarization and structure in the electrodeposition of metals. V. Kohlschutter. Am Electrochem Soc Trans v 45 (preprint 5):63-74 Ap '24; Same. Brass W 20:385-8 N '24

POLARIZATION (light)

Molecular scattering of light in liquids. K. S. Krishnan. Philos Mag 6th ser 50:697-715 O '25

Polarimeter and its practical applications. C. A. Skinner. il diags J Fr Inst 196:721-50 D '23

Polarization effects shown by films of certain fused salts. D. B. Deodhar and G. B. Deodhar. Phys R 22:405-7 O '23

Polarization of resonance radiation. G. Breit. diags Philos Mag 6th ser 47:832-42 My '24

Polarization of the light scattered by organic vapours. A. S. Ganesan. Philos Mag 6th ser 49:1216-22 Je '25

Polarized resonance radiation in weak magnetic fields. R. W. Wood and A. Ellett. diags Phys R 24:243-54 S '24

Reflexion of plane polarized light by etched metals. O. Jones. Philos Mag 6th ser 48: 207-16, pl 5 Jl '24

Theoretical interpretation of the polarization experiment of Wood and Ellett. J: A. Eldridge. Phys R 24:234-42 S '24

See also Magneto-optics; Optical rotation; Stereochemistry

POLE setting machines

Cost of pole setting by machine. R. N. Carter. il Elec W 86:507-10 S 12 '25

Earth boring and pole setting machine. il Ry R 74:344-5 F 23 '24; Elec Ry J 63:475-6 Mr 22 '24; Am Ind 25:32 Ja '25

Machine for boring pole holes and setting poles. il Eng & Contr (G C) 64:922 O 21 '25

POLES

Graphic solution for wood-pole strength. E. Brokemyr. Elec W 82:955-7 N 10 '23

Methods of preserving poles and economies of pole treatment. L. R. Gamble. il J Elec 55:325-9 N 1 '25

Railway purchases of crossties and poles in 1923. Ry Age 77:1112 D 20 '24

Specifications for pole preservation. C. W. Nickerson. Elec W 85:410-11 F 21 '25

See also Electric lines—Poles and towers; Pole setting machines

Testing

Testing wooden poles by dynamometer. il Elec W 84:421-2 Ag 30 '24

POLES, Clay

Another idea for telephone poles. C. F. Jarboe. diag Brick & Clay Rec 67:488 S 29 '25

POLES, Concrete

Cleveland railway studies concrete poles. il diags Elec Ry J 62:819-21 N 10 '23

Concrete pole design reduces maintenance. il Elec Ry J 65:978 Je 20 '25

Concrete poles now widely utilized. il Concrete 27:21-3 N '25

Concrete poles used because of ornamental appearance. il diags Elec Ry J 63:534-5 Ap 5 '24

Experience with concrete poles. J. M. Brown. il Elec W 85:499-502, 1081-3 Mr 7, My 23 '25

Hollow concrete poles by the centrifugal method. il Concrete 27:40-1 O '25

Making and erecting concrete poles. L. R. Brown. il diags Elec Ry J 64:159-61 Ag 2 '24

Railway builds concrete trolley poles in a modern plant. W. W. Wysor. il diag Elec Ry J 65:691-3 My 2 '25

POLES, Concrete—*Continued*
Railway makes concrete poles in St. Louis. C. L. Hawkins. il diag Elec Ry J 65:226 F 7 '25

See also Posts, Concrete

POLES, Steel
Eliminating corrosion of steel poles; the Truscon pole. Ry R 76:166-7 Ja 17 '25; Ry Age 78:182 Ja 10 '25
Making poles that will last. Am Ind 25:29-30 F '25
Speeding pole setting in San Francisco. S. L. Foster. diags Elec Ry J 66:91-3 Jl 18 '25
Steel poles improve street appearance. il Elec Ry J 63:59 Ja 12 '24
Truscon to make steel poles. il Elec Ry J 63: 977 Je 21 '24; Ry R 74:1228 Je 21 '24

POLICE
Automobile and the police. A Mandel. Ann Am Acad 116:191-4 N '24
Invisible police alarm. O. E. Dunlap, jr. il Sci Am 133:308-9 N '25
Polizeimeldeanlagen. il diag Elektrotech Zeit 46:497-500 Ap 2 '25

See also Harbor police; Radio telephone—Police uses; Telephone—Police uses

Advertising

And now the police are advertised. Ptr Ink 131:10+ Ap 30 '25

Salaries

Hire of firemen and policemen. W: C. Beyer. Ann Am Acad 113:235-47 My '24
Salaries and retirement provision for firemen and policemen in San Francisco. Monthly Labor R 20:522 Mr '25
Salaries in the police and fire departments of specified cities. Monthy Labor R 19:802-16 O '24

POLICE stations
45th precinct station house, New York city Arch & Bldg 56:12, pl 48-50 F '24
Police headquarters, Detroit, Mich. fold plan Am Arch 125:476a-b My 21 '24
66th precinct police station, St George, Staten Island, N.Y. Arch & Bldg 55:121-2, pl 254-8 D '23

POLICYHOLDERS' service bureau. See Metropolitan life insurance company—Policyholders' service bureau

POLISH mutual insurance institute
Polish mutual insurance institute. Econ W n s 30:279 Ag 22 '25

POLISH national alliance
Polish national alliance architectural competition. il plans Am Arch 126:280-4 S 24 '24

POLISHING
Abbott improved burnishing barrel. il Am Mach 59:896 D 13 '23
Automatic buffing methods. C: O. Herb. il diags Mach 31:761-4, 871-3, 960-3; 32:15-16 Je-S '25
Buffing material cut on bias. il Iron Age 115:340 Ja 29 '25
Development of the new centerless bias buff. H. A. Grant. il Metal Ind 23:120-1 Mr '25
Glue for polishing. B. H. Divine. Brass W 21:321-2, 355-6 S-O '25
Industrial fatigue conditions in the British metal polishing industry. Metal Ind 22:487 D '24
Just what is "finish?" J: R. Godfrey. Am Mach 63:239 Ag 6 '25
Polishing and plating apparatus. il Brass W 21:217 Je '25
Polishing Packard parts. Am Mach 63:620 O 15 '25
Polishing reflector bowls. il diag Mach 30:298 D '23
Polishing stainless steel knives. O. A. Nierendorf. il Brass W 20:243-4 Jl '24
Preparing wheels for polishing. F. D. Bowman. il Iron Tr R 74:796-7 Mr 20 '24
Tumbling and burnishing. B. G. Krause. il Mach 30:501-2 Mr '24; Same abr. Brass W 20:181-2 My '24

See also Abrasives; Grinding; Sand blast

POLISHING machines
Automatic buffing methods. C: O. Herb. il diags Mach 31:761-4 Je '25
Cleveland armature heavy-duty buffers and polishers. il Am Mach 62:517 Mr 26 '25; Iron Age 115:889 Mr 26 '25; Automotive Ind 52:699 Ap 16 '25; Brass W 21:145 Ap '25
Cleveland high-speed heavy-duty polishing machines. il Am Mach 60:714 My 8 '24; Mach 30:734-5 My '24; Iron Age 113:1723 Je 12 '24
Early polishing machines. T: Harper. il Metal Ind 23:179-81 My '25
Excelsior grinding and polishing machine. il Am Mach 62:1015 Je 25 '25; Iron Age 115: 1781 Je 18 '25
Gardner double-spindle polishing lathe. il Am Mach 61:38 Jl 3 '24; Iron Age 114:20 Jl 3 '24
Geier polishing and buffing machine. il Iron Age 114:1668 D 25 '24
High speed heavy duty polishing. F. M. Hibben. il Brass W 20:146-7 Ap '24; Same. Metal Ind 22:207-8 My '24
New motor driven polishing lathe. R. C. Mitchell. il Metal Ind 22:334 Ag '24; Same. Brass W 20:294 Ag '24
Polishing in the cutlery industry. il diags Mach 32:217 N '25; Same cond. Brass W 21: 393 N '25
Polishing on a production basis. il Mach 32: 132 O '25
Production machine co. finishing machine for flat work. il Am Mach 60:343 F 28 '24; Mach 30:570 Mr '24
Progress of automatic polishing machines. J: O. Campbell. il Metal Ind 23:161-2 Ap '25
Terrazzo-floor polishing machine. il Engineering 117:574 My 2 '24

See also Buffing wheels; Grinding machines; Lapping machines

POLISHING wheels
How to use grinding and polishing wheels. G. Radebaugh. il Coal Age 26:23-4 Jl 3 '24
Using special wheels for polishing materials. il Coal Age 26:96 Jl 17 '24

See also Grinding wheels

Cleaning

Kopf polishing wheel cleaning machine. il Metal Ind 22:209 My '24
Steam cleaning polishing wheels. il Automotive Ind 51:164 Jl 17 '24

POLITICAL advertising. See Advertising, Political

POLITICAL conventions
Elephantine convention. M. Sykes. Comm & Fin 13:1303-4 Jl 9 '24

POLITICAL platforms. See Platforms, Political

POLITICAL science

Bibliography

Recent books on government and politics. C. C. Hubbard. Special Lib 15:248-9 D '24

POLITICS, Practical
Painting prosperity to order. E. Dakin. Comm & Fin 13:1689-90 S 10 '24

See also Women and politics

POLK, Willis, 1865-1924
Appreciation. B. R. Maybeck. por Am Arch 126:422 N 5 '24

POLLEN
Cytology of the cotton plant; microspore formation in Sea Island cotton. H. J: Denham. Textile Inst J 15:T474-95, pl 1-8 [bibliog. p. T491-2] O '24
Desert varnish. C: H: White. Am J Sci 5th ser 7:413-20 My '24

POLLOPAS
New glass more permeable to low wavelength rays. F. Pollak and K. Ripper. Nation's Health 7:701 O '25
Pollopas—organic glass; a new synthetic colloid. F. Pollak and K. Ripper. Chem Age 32:409-12 O '24
Urea-formaldehyde condensation products. Chem Age 32:470 N '24
Le verre organique pollopas et ses applications en Autriche. Génie Civil 85:506 N 29 '24

POLLUCITE
Extraction of cesium from pollucite. V: Lenher, G: Kemmerer and E. Whitford. Ind & Eng Chem 16:1280 D '24

POLO cloth. See Woolen and worsted fabrics

POLYCHROMY
Polychromy; architectural and structural, theory and practice. L. V: Solon. 156p Architectural record, New York '24

POLYCRASE
Polycrase from Brazil. F. L. Hess and E. P. Henderson. J Fr Inst 200:235-8 Ag '25

POLYHALIDES, Alkali. See Alkali halides

POLYHALITE
Polyhalite—a source of American potash. Chem Age 32:500 D '24

POLYHEDRA
Partitioning of space into enantiomorphous polyhedra. W. Barlow. il diags Philos Mag 6th ser 46:930-56 N '23

POLYMERIZATION
Densities and compressibilities of several organic liquids and solutions, and the polymerization of water. T. W: Richards and H. M. Chadwell. Am Chem Soc J 47:2283-2302 S '25

Polymerization and oxidation of indene in the vapor phase. R. L. Brown. diag Ind & Eng Chem 17:920-4 S '25

Polymerisation of drying oils. R. S. Morrell. Soc Chem Ind J 43:362 D 19 '24

Polymerisation of linseed oils. N. Friend and H. J. Alcock. Chem Age (Lond) 10:513-14 My 17 '24

Studies in chemical reactivity; the anthracene—dianthracene reactions, photochemical and thermal. H. A. Taylor and W. C. M. Lewis. Am Chem Soc J 46:1606-14 Jl '24

POLYPEPTIDES
Physiological studies on cereals; the occurrence of amino acids and polypeptides in the ungerminated oat kernel. S. L. Jodidi. bibliog J Fr Inst 198:201-11 Ag '24

POLYPREMUM
Polypremum procumbens L. T. Holm. bibliog diags Am J Sci 5th ser 7:210-18 Mr '24

POLYSACCHARIDES
Colorimetric determination of carbohydrates in plants by the picric acid reduction method; the determination of starch and other reserve polysaccharides. W. Thomas. Am Chem Soc J 46:1670-5 Jl '24

Constitution of polysaccharides. J. C. Irvine. Chem R 1:41-71 Ap '24

Constitution of polysaccharides; esparto cellulose. J. C. Irvine and E. L. Hirst. Chem Soc J 125:15-25 Ja '24

Constitution of polysaccharides; the molecular structure of β-hexa-amylose. J. C. Irvine. H. Pringsheim and J: MacDonald. Chem Soc J 125:942-7 Ap '24

Decarboxylation of polysaccharide acids: its application to the establishment of the constitution of pectins and to their determination. D. R. Nanji, F: J. Paton and A. R. Ling. Soc Chem Ind J 44:253-8 My 22 '25

Studies on reactions relating to carbohydrates and polysaccharides. H. S. Hill and H. Hibbert. Am Chem Soc J 45:3108-32 D '23

Studies on reactions relating to carbohydrates and polysaccharides; the electrolytic reduction of carbonyl derivatives. H. Hibbert and R. R. Read. diags Am Chem Soc J 46:983-99 Ap '24

Studies on the reactions relating to carbohydrates and polysaccharides; the oxidation of cellulose. H. Hibbert and J: L. Parsons. Soc Chem Ind J 44:473-85 [bibliog. p. 485] O 9 '25

See also Starch

POLYSULFIDES. See Sulfides

POMONA college

Mason hall of chemistry
Mason hall of chemistry at Pomona college. E: P. Bartlett. il plan Ind & Eng Chem 16: 638-9 Je '24

PONTOON bridges
Cable-operated pontoon bridge over Chicago river. diags Eng N 93:864-5 N 27 '24

Pontoon swing bridge at Curacao in the Dutch West Indies. B. Snyder. il Eng N 93:620 O 16 '24

POOLING (railroads). See Railroads—Pooling

POOR
Family protection through supplemental income. F. Tyson. Ann Am Acad 121:25-37 S '25

See also Housing; Labor and laboring classes; Mothers' pensions; Old age pensions

POOR Richard club, Philadelphia. Price school of advertising and journalism
Poor Richard club to have endowed school of advertising. Ptr Ink 128:131 S 4 '24

Poor Richard's endowed advertising school opens. Ptr Ink 129:143 O 16 '24

POPLAR
Poplar wood as a substitute in the manufacture of groundwood. W. A. Munro. Paper Tr J 77:60 N 15 '23

POPPYSEED oil
Recherche au point de vue des applications à la peinture, des différences existant entre les huiles grasses analogues à l'huile de pavot ou analogues à l'huile de lin; abstract. A. Eibner and B. Wibelitz. Chimie & Ind 14:96-8 Jl '25

POPULATION
Biologist speaks to the manufacturer. Comm & Fin 14:1141 Je 10 '25

Growth of population and the factors which control it. G. U. Yule. Roy Statis Soc J 88: 1-58 [bibliog. p. 56-8] Ja '25

Increase of the world's population from 1910 to 1924. Econ W n s 30:407 S 19 '25

Laws governing population. T. H. C. Stevenson. charts Roy Statis Soc J 88:63-76; Discussion. 76-90 Ja '25

Population estimates of fast-growing cities. Ptr Ink 132:148-9 Ag 27 '25

Population estimating. F: H. Stearns. Special Lib 16:86-8 Mr '25

Population problems. E: B. Reuter. 338p Lippincott '23

Population statistics of foreign countries. E. Sydenstricker. Am Statis Assn J 20:80-9 Mr '25

Relation of population growth and land supply to the future foreign trade policy of the United States. L. C. Gray. Ann Am Acad 112:191-201; Discussion. W: S. Culbertson. 207-11 Mr '24

Statistician and the population problem. L: I. Dublin. Am Statis Assn J 20:1-12 Mr '25

See also Birth rate; Food supply; *also* subdivision Population under names of countries, e.g. Great Britain—Population; United States—Population

PORCELAIN
Burn clay ware in electric tunnel kiln. A. Paoloni. il diags Brick & Clay Rec 67:196-8 Ag 4 '25

Changes in a porcelain body during firing. R. Rieke. Am Cer Soc J 8 (Cer A 4): 137-9 My '25

Coloured glaze for porcelain. Chem Age (Lond) 11:sup15 O 18 '24

Contribution to the better knowledge of genuine hard porcelain. K. H. Reichau. il Chem Age (Lond) 11:sup9-11+ Ag 16 '24

Handling and storing raw materials to produce uniformity in a body. R. Twells, jr diags Am Cer Soc J 7:82-5 F '24

New uses of nonmetallic minerals. W. M. Myers. U S Bur Mines Rep of Invest 2587:1-7 Mr '24 (typew); Abstract. Brick & Clay Rec 64:739-40 My 13 '24

Plymouth porcelain. J. V. Hodgson. il Chem Age (Lond) 10:sup10-11 Ap 19 '24

Pottery and porcelain; how china clay and stone are used. H. Barnard. Chem Age (Lond) 11:sup15 Ag 16 '24

PORCELAIN—*Continued*
Study of segregation in porcelain filter cake by petrographic methods. L: Navias. il Am Cer Soc J 8:432-5; Discussion. 435-6 Jl '25

See also Glazes; Kilns; Pottery; Spark plugs

PORCELAIN, Insulating
Die deutsche elektrotechnische porzellan-industrie. W. Huth. Elektrotech Zeit 45:688-9 Je 26 '24
Einfluss der glasur auf einige physikalische eigenschaften von porzellan; abstract. Elektrotech Zeit 46:1159-60 Jl 30 '25
High-tension transmission lines. E. V. Pannell. diags Engineer 137:328-31 Mr 28 '24
Manufacture of high-voltage insulators. M. H. Hunt. il Chem & Met Eng 31:728-33 N 10 '24
Manufacturing high voltage insulators on the Pacific coast. A. W. Pride. il J Elec 52:237-9 Ap 1 '24
Slip making and control. P. H. Sanborn. Am Cer Soc J 8:533-7; Discussion. 557-64 S '25
Some observations in the casting of heavy electrical porcelains. E. H. Fritz and A. L. Donnenwirth. Am Cer Soc J 8:547-51; Discussion. 552-4 S '25
Treating porcelain insulators. W. Bucksath. diags Electrician 94:480-1 Ap 24 '25

See also Spark plugs

Testing
Neue untersuchungsergebnisse bei der technischmechanischen prüfung von elektrotechnischem porzellan. R. Pfeiffer. il diag Elektrotech Zeit 46:1391-2 S 3 '25
Porositätsprüfung an technischem porzellan. R. Pfeiffer. il diags Elektrotech Zeit 46: 1078-80 Jl 16 '25

PORCHES
Cement floors that will not crack. I. P. Hicks. diag Bldg Age 46:87 S '24
Constructing drains for porch floors. I. P. Hicks. diags Bldg Age 47:142 Mr '25

PORK
Presence of vitamin A in frozen pork. A. M Wright. Soc Chem Ind J 42:509 D 28 '23

PORK industry and trade
Present conditions as regards world production of pork and pork products. Econ W n s 29:340 Mr 7 '25
L'usine de la Société aux jambons français au Pré-Saint-Gervais (Seine). il diags Génie Civil 83:529-34, pl 5 D 1 '23

POROSIMETER
Simple brick porosimeter. E. E. Pressler. il Am Cer Soc J 7:154-9 Mr '24

POROSITY
Comparative tests of porosity and specific gravity on different types of refractory brick. E. E. Pressler. Am Cer Soc J 7:447-51 Je '24
Determination of porosity of china by the water soaking method. E: Schramm. Am Cer Soc J 7:444-6 Je '24
New machine for testing porosity. il Textile World 67:197-8 Ja 10 '25

PORPHYRY
Porphyries of the Porcupine area. L. B. Wright. Eng & Min J 119:446-7 Mr 14 '25

PORT ARTHUR, Texas
Port Arthur. R: Spillane. il map Comm & Fin 13:85-7+ Ja 9 '24

PORT of New York authority
Annual report. Ry R 76:287 F 7 '25
Port authority asks engineers to bid on bridge design. Eng N 93:991 D 18 '24

PORTLAND, Oregon
Fast growing port. il World's Markets 15:3-5 Mr '24; Same. Dun's Int R 43:52-4 Ap '24

Bridges
Timber cribs floated to place for bridge piers at Portland, Ore. il diag plan Eng N 95: 584-5 O 8 '25
Unusual spandrel-braced arch bridge built at Portland. O. Laurgaard. il diags Eng N 93:328-30 Ag 28 '24

Harbor
Ports of Portland and Astoria, Oregon, and Vancouver, Washington. 238p U.S. Engineer dept., Board of engineers for rivers and harbors, Washington '25

Streets
Reconstruction of Front street in Portland, Oregon. diag Eng N 94:394 Mr 5 '25

PORTLAND cement association
Annual meeting, 21st, New York, November 19-21. Concrete 23:sup110 D '23
Annual meeting and the centennial of the patenting of Portland cement, November, 1924. Concrete (cement mill sec) 25:112 D '24; Eng N 93:884 N 27 '24; Good Roads 68: 23+ Ja '25
Cements and cement manufacturers; notes on the centennial. H. Whipple. Concrete 25: 235-6 D '24
Portland cement association to build own home. il Concrete 27:30 S '25; Same. Eng & Contr (Bldgs) 64:465-6 Ag 26 '25
Portland cement association; what it is and does. Concrete 25:144-5 O '24

Library
Operation of a technical specialized library. P. S. Cafferata. Special Lib 16:324-9 O '25

PORTO RICO
Island of too many people. G: Cary. il Nation's Business 12:22-3 Ag '24

See also Gas industry—Porto Rico; Hydroelectric plants—Porto Rico; Insurance, Life—Porto Rico; Wages—Porto Rico

Commerce
Progress in Porto Rico. World's Markets 15: 16 Mr '24

PORTRAITS
Use of presidents' portraits for advertising. Ptr Ink 128:113-14 Ag 28 '24
When to put personality into advertising. Ptr Ink 128:125-6 Ag 21 '24

PORTS
Comparative progress of rival British ports. H. B. Allin-Smith. U S Bur For & Dom Com Trade Information Bul 174:1-10 '24
La construction des ports modernes et leur exploitation. G. Hersent. Soc Ing Civils Bul 78:12-36 Ja '25
Décrets instituant l'autonomie des ports de Bordeaux et du Havre. Génie Civil 85:608 D 27 '24
Facilities at British ports. Engineer 138:584 N 21 '24
Port administration. F. T. Chambers. W Soc E J 30:25-35; Discussion. 35-8 Ja '25
Le port de Dunkerque. A. Moutier. maps Soc Ing Civils Bul 77:589-600, pl 78 O '24
Port development. R. S. MacElwee. 440p McGraw-Hill '25
Port directory of the principal foreign ports. 4th ed. 798p U.S. Office of naval intelligence, Washington '24
Ports of America and Europe as seen by an Australian. W. E. Adams. Engineer 139:336 Mr 20 '25
Les transformations du port de Cherbourg. A. Pawlowski. il diags plans Génie Civil 85: 389-94 N 1 '24
United States needs more ports. R. S. Mac Elwee. il map Marine R 54:393-5 O '24

See also Coal piers; Docks; Freight handling; Harbors; Mechanical handling; Piers; Shipping; Terminals; Wharves; *also* names of ports, e.g. Antwerp; Beira, Mozambique; Brest, France; Cherbourg, France; Houston, Texas; Königsberg, Germany; Lorient, France; Newark, New Jersey; Portland, Oregon; Rotterdam; *also* subdivision Harbor under names of cities, e.g. Boulogne—Harbor; Jacksonville, Florida—Harbor; Mobile, Alabama—Harbor; Naples—Harbor; New Orleans—Harbor; New York (city)—Harbor

PORTSMOUTH, Virginia

Rapid transit

Buses assume brunt of transportation burden in Portsmouth. il Bus Transportation 3:361-2 Ag '24

Standardized equipment will cut operating costs. il Bus Transportation 3:73 F '24

PORTUGAL

Economic conditions

Finances and trade of Portugal. Economist 98:730 Ap 5 '24

See also Mines and mineral resources—Portugal

POSIDONIA australis

Chemistry of posidonia fibre. J: C. Earl. Chem Soc J 123:3223-6 D '23

Chemistry of posidonia fibre; the cellulose. J: C. Earl. Chem Soc J 125:1322-3 Je '24

POST, George Adams, 1854-1925

Sketch. por Ry Age 79:859-60 N 7 '25

POST office buildings

See also Mail terminal buildings

Lighting

Hygienic conditions of illumination in two New York city post offices. Monthly Labor R 20:618-21 Mr '25

POST office department. See United States—Post office department

POSTAGE stamps

See Advertising mediums—Postage stamps

POSTAGE stamps, Commemorative

Commemorative postage stamps and advertising. Ptr Ink 131:124+ My 28 '25

POSTAL cars

Floor plan of the Chicago & Alton mail cars. Ry Mech Eng 98:670 N '24

POSTAL conventions

Convention of Stockholm (August 28, 1924) together with the detailed regulations for its execution. 183p Govt. ptg. office, Washington '25

POSTAL laws and regulations

Post office ruling on publication inserts. Ptr Ink 126:145-6 F 7 '24

POSTAL rates

Advances in postal rates to yield $66,000,000 suggested by Postmaster-general New to meet proposed increase in pay of postal employees. Comm & Fin Chr 119:2835-6 D 20 '24; Ptr Ink 129:90-1 D 18 '24

Apparent results of increased postal rates. Ptr Ink 132:69-70 Jl 23 '25

Architect and the new postal arrangements. W. Fawcett. Arch Rec 58:188-90 Ag '25

Changes in postal rates in effect this week—text of new postal salary and rate increase bill as enacted into law. Comm & Fin Chr 120:1966-70 Ap 18 '25

Chicago conference starts postal revision move. Ptr Ink 131:57-8 Ap 23 '25

Clouds gather in Washington for a postal rate storm. Sales Management 7:1889-90 D '24

Congressmen pry into matter of postal rates. Ptr Ink 130:41-2+ Ja 1 '25

Hearings by sub-committee of Congress on postal rates. Comm & Fin Chr 121:537-8 Ag 1 '25

Hearings on the postal rate bill. Bradstreet's 53:5 Ja 3 '25

How advertisers will meet increased postal rates. Ptr Ink 131:10+ Ap 16 '25

How the postal rate increase is affecting business. Ptr Ink 132:25-6+ Ag 20 '25

I.C.C. considers mail rates: brief of A.R.E.A. committee. Elec Ry J 63:664-5 Ap 26 '24

New postal rates. Ptr Ink 130:110 Mr 5 '25

Newspaper publishers declare higher postal rates will drive newspapers from mails. Comm & Fin Chr 119:2836-8 D 20 '24

Plan $250,000 budget in fight for lower postage rates. Ptr Ink 131:112-13 Je 18 '25

Postal rate increases probably deferred. Ptr Ink 127:33-4+ Ap 24 '24

Postal rate inquiry. Bradstreet's 53:529 Ag 15 '25

Postal rate situation. Ptr Ink 130:10 F 19 '25

Protest against catalogue penalization in postal bill. Ptr Ink 130:41-2+ Ja 22 '25

Rank injustice proposed. Manuf Rec 85:63-4 Ap 24 '24

Reasons against the zone postal system for publications. Manuf Rec 85:65-7 F 21 '24

Second-class postal rate increase imminent. Ptr Ink 129:17-20 D 11 '24

Startling discovery about the postal rate bill. C. A. Tupper. Ptr Ink 130:73-4 Ja 15 '25

Truth about postal rates. Ptd Salesmanship 45:495-6 Jl '25

What an advertiser could learn at a publishers' meeting. A. E. Haase. Ptr Ink 129:61-2 O 16 '24

What happened to the administrations' postal rate bill. Ptr Ink 130:10+ Ja 8 '25

POSTAL savings banks

Availability of municipal bonds as security for deposits of postal savings funds. Comm & Fin Chr 117:235-6 sec 2 D 29 '23

Increase in postal savings deposits in October. Comm & Fin Chr 119:2485 N 29 '24 [continued monthly]

Plans to increase limit of postal savings deposits. Comm & Fin Chr 117:2384-5 D 1 '23

Savings in the postal savings system. M. H. Schoenfeld. Ann Am Acad 121:sup47-52 S '25

Shall the government compete in banking? C: H. Deppe. Am Bankers Assn J 16:719-20 My '24

See also Argentina—National postal savings bank

POSTAL service

See also Franking; Mail bags; Mail handling; Parcel post; Postal cars; Postal laws and regulations; Postal rates; Railway mail service; Rural free delivery

Canada

Unaddressed mail can be sent through Canada. J: L. Love. Ptr Ink 130:49-50+ Ja 8 '25

France

L'organisation financière de l'entreprise des postes, télégraphes et téléphones. Génie Civil 84:504-5 My 24 '24

Great Britain

Post office research station; the Dollis Hill establishment. il Elec R (Lond) 95:217-19 Ag 8 '24

United States

Bill increasing postal salaries vetoed. Bradstreet's 52:382 Je 14 '24

Changes in postal rates in effect this week—text of new postal salary and rate increase bill as enacted into law. Comm & Fin Chr 120:1966-70 Ap 18 '25

Cost of handling mail matter. 2v U.S. Postoffice dept., Washington, D.C. '24

The $42,000,000 postal deficit. H. S. New. Nation's Business 13:16-17 N '25

History of the United States post office to the year 1829. W. E. Rich. 190p Harvard univ. press, Cambridge '24

How mail delays are being remedied. Ptr Ink 125:25-8 N 29 '23

Importance of official state abbreviations in addressing mail. Ptr Ink 126:41-2+ F 7 '24

Largest business in the world. H. S. New. il map Am Ind 25:9-12+ S '24

Let the post office help correct your mailing list. Ptr Ink 129:125-6 N 6 '24

Making locks for the U.S. mails. il Iron Age 116:1249-50 N 5 '25

New postal salary and rate increase bill passed by House of representatives, replacing rejected Senate bill. Comm & Fin Chr 120:785-6 F 14 '25

Post office plans better mailing week. Ptr Ink 131:10+ My 14 '25

Post-office to expedite delivery of newspapers. Ptr Ink 126:89 Ja 31 '24

POSTAL service—United States—*Continued*
Postal pay raise will mean increased postal rates. Ptr Ink 127:10+ Ap 10 '24
Postal receipts of fifty selected and fifty industrial cities in October. Comm & Fin Chr 117:2159 N 17 '23 [continued monthly]
President Coolidge vetoes bill proposing increases in wages to post office employees. Comm & Fin Chr 118:2900-2 Je 14 '24
Publication advertising increase seen in Post office report. Ptr Ink 125:154+ D 13 '23
Report of Post office department on cost of carrying mail—net loss of approximately $40,000,000 during 1923. Comm & Fin Chr 119:2834-5 D 20 '24
United States has cheapest mail service in world. Comm & Fin Chr 121:1311 S 12 '25

See also Railway mail service; United States—Post office department

POSTAL service, Aerial
Advantages offered to advertisers by air mail service. Ptr Ink 127:10+ My 29 '24
Air mail and national defense; a radio address. L. D. Bell. Aviation 16:565-6 My 26 '24
Air mail and the banker. P. Henderson. il Aviation 17:886-7 Ag 18 '24; Same abr. Bankers M 109:586-7 O '24
Air mail as a credit facility. L. B. Shard. il Credit M 27:13-14 My '25
Air mail is of service to the automotive industry. Automotive Ind 51:566 S 25 '24
Air mail radio equipment. I. F. Byrnes. il diags Gen Elec R 27:492-7 Ag '24
Air mail service. P. Henderson. il Soc Auto Eng J 16:272-4 Mr '25
Annual report on the U.S. air mail service. il Aviation 15:770-1 D 24 '23
Australian air mail services. il Aviation 16: 677 Je 23 '24
Blazing the air mail path in Alaska. C. B. Eielson. il map Aviation 16:394-6 Ap 14 '24
Coast-to-coast through air mail. Aviation 16: 505 My 12 '24
Convincing demonstration of the first round trip night air mail letter New York to Chicago and back. L. D. Gardner. il Aviation 19:69 Jl 20 '25
Dollar takes to wings. R. Hobson. Am Bankers Assn J 17:77-8+ Ag '24
Extension of air mail services planned. Aviation 16:367 Ap 7 '24
Extension of the night mail airway. il Aviation 16:649 Je 16 '24
French air expansion in South America. L. d'Orcy. map Aviation 18:241-3 Mr 2 '25
Industry, commerce, finance and the air mail. P. Henderson. Aviation 17:910-11 Ag 25 '24
Mail pilots' flying time. Aviation 16:541 My 19 '24
New air mail contracts. Aviation 19:552 O 19 '25
New mail routes. Aviation 19:93 Jl 27 '25
New York-Chicago night air mail. il Aviation 19:38-40 Jl 13 '25
New York-Chicago night mail schedule. Aviation 18:720 Je 29 '25
One-and-a-half day coast to coast air mail. map Aviation 16:694-5 Je 30 '24
Operation of the Air mail service. J. E. Whitbeck. Soc Auto Eng J 17:486-9 N '25
Our flying mail—its business side. R. Willoughby. il map Nation's Business 13:26-8 Je '25
Regulations for air mail routes. Aviation 18: 458-60 Ap 27 '25
Round the world air mail lines planned. E. G. Rich. Annalist 25:772+ Je 8 '25
Saving in mail time by use of air service. Comm & Fin Chr 119:1923-4 O 25 '24
Summary of five years' air mail operations. Aviation 16:227 Mr 3 '24; Same. Soc Auto Eng J 14:462 Ap '24
What is the value of speed? T: H. Kennedy. Aviation 18:487 My 4 '25

See also Airplanes, Mail

POSTAL workers
Hygienic conditions of illumination in two New York city post offices. Monthly Labor R 20:618-21 Mr '25
Labor movement in a government industry. S. D. Spero. 320p Doran '24
Termination of mail workers' strike in Canada. Comm & Fin Chr 119:286-7 Jl 19 '24

POSTER advertising association
Annual convention, 34th, Detroit, Oct. 13-17. Ptr Ink 129:85-8+, 92 O 23 '24
Name changed 1925 to Outdoor advertising association of America

POSTERS
Advertiser and the city. H. V. Lanchester. il Am Arch 126:439-41 N 5 '24
Advertising and British art. W. S. Sparrow. 189p John Lane, London '24
Amateur poster-maker. J. E. Perkins. 63p Pilgrim press, Boston '24
American advertisers who are using unusual and effective posters. B. F. Berfield. il Ptr Ink M 11:34-5 S '25
Art of the poster; its origin, evolution and purpose. E. M. Kauffer, ed. 190p [bibliog. p. 187-8] C. Palmer, London; Boni & Liveright, N.Y. '24
Bank leans on new trends in art to gain attention. B. R. Brooker. Ptr Ink M 9:90+ D '24
Development of the letterpress poster. A. Langley. Inland Ptr 74:896-8 Mr '25
Difference between a poster and a handbill. Ptr Ink 125:150+ N 22 '23
Editorial content and trading zones for poster advertising. A. E. Haase. Ptr Ink 129:85-8+, 92 O 23 '24
Exhibit of advertising posters of foreign railways; typewritten list of posters. 8p Lib. Bur of railway economics, Washington, D.C.
Foreign travel posters. S. A. Kimber. il Ptd Salesmanship 46:134-7 O '25
Gulf gasoline gets response on artistic posters. il Ptr Ink 127:72 Je 12 '24
Modern trend in poster art as exemplified by the work of Joseph A. Kiss. Inland Ptr 76:72a-h O '25
Outside of the window—a chance for plus advertising. D. G. Miller. Ptr Ink M 9:70+ D '24
Posters and their designers. S. R. Jones. 150p The Studio, ltd., London '24
Real incentive for art in outdoor advertising. E. E. Calkins. il Ptr Ink M 9:27-8 Jl '24
Six sources of poster art. E. E. Calkins. il Ptr Ink M 10:21-3+ Ap '25
Taking art to the people through outdoor advertising. L. Taft. il Ptr Ink M 8:21-4+ Je '24

See also Billboards

POSTS, Concrete
How concrete highway guard posts are cast in steel forms. il Eng & Contr (R & S) 61: 1250-1 Je 4 '24
Making concrete light posts for St. Louis. il Concrete 27:42 S '25
Mile posts and whistle posts of white Portland cement concrete. S. Warren. il diags Ry R 74:608-9 Mr 29 '24; Same. Concrete 24: 205-6 My '24; Same cond. Eng N 92:623-4 Ap 10 '24

See also Fence posts, Concrete

POSTS, Steel

See Fence posts, Steel; Poles, Steel

POSTSCRIPTS
How, where and why to use the postscript. M. Droke. Ptr Ink 133:95-6 O 8 '25

POSTUM cereal

Advertising

Road to Wellville plays a return engagement. O. Winters. Ptr Ink 130:33-4 Mr 12 '25

POSTUM cereal company
Postum makes the annual report a sales booklet. Ptr Ink M 10:51 Ap '25
Postum tells how it uncovered hidden profits. C. M. Chester, jr. Ptr Ink M 11:19-20+ S '25
There's a reason for safety at the Postum plant. C. T. Fish. il Nat Safety N 10:17-20 O '24

POSTUM cereal company building, New York
Postum building. Arch & Bldg 57:22-3, pl 49-53 Mr '25

POSTURE
Effects of posture and rest in muscular work; abstract. E. M. Bedale and H. M. Vernon. J Ind Hygiene 7:128-30 Jl '25
Housekeeper's health affects the welfare of all. A. Ravenhill. il Nation's Health 6:765-7 N '24
Postural aids: both mental and mechanical. il Nation's Health 6:620-2 S '24
Postural defects in children and adolescents. il Nation's Health 7:349-50 My '25
Technic for interesting children in good posture. M. F. Colleary. diags Nation's Health 7:241-2 Ap '25

POTASH
Chemistry in its relation to agriculture. E. Holmes. Chem Age (Lond) 12:275 Mr 21 '25
Effects and uses of potash fertilisers. G. A. Cowie. Chem Age (Lond) 10:87-8 Ja 26 '24
Potash, the key to prosperous agriculture. G: O. Smith and G: R. Mansfield. Am Bankers Assn J 16:715-17 My '24

See also Potassium carbonate; Potassium hydroxide

Manufacture

Lesson in waste recovery; possible recovery of potash from Steffen beet sugar plant waste water. W. J. Geldard and W: D. Chase. il diag Chem & Met Eng 32:195-7 F 2 '25
Manufacture of potash and other salts from leucite. J. W. Hinchley. il diag Soc Chem Ind J (Chem & Ind) 43:158-65; Discussion. 165-8 F 15 '24
New source of potash; Italian leucite and its products. J. W. Hinchley. Chem Age (Lond) 9:572-3 N 24 '23; Abstract. Soc Chem Ind J (Chem & Ind) 42:1133 N 23 '23
Potash from cement dust; concentration by elutriation. E. J. Fox and C. W. Whittaker. Ind & Eng Chem 16:1044-6 O '24
Potash from greensand (glauconite). J. W. Turrentine, C. W. Whittaker and E. J. Fox. Ind & Eng Chem 17:1177-81 N '25
Potash from kelp. R. P. Brandt. U S Agric Bul 1191:1-40 '23
Potash from kelp; certain equilibria used in the manufacture of potassium chloride from kelp brines. J. W. Turrentine and H. G. Tanner. Ind & Eng Chem 16:242-8 Mr '24

Alsace

Potash mines of Alsace. J. Hendrick. Soc Chem Ind J (Chem & Ind) 44:139-41 F 6 '25

Italy

Italian potash industry grows. Chem & Met Eng 30:635 Ap 21 '24

Minnesota

Possible potash production from Minnesota shale. H. A. Schmitt. Econ Geol 19:72-83 Ja '24

Russia

Extracting potash from Russian soil; the development, economics and engineering. J. R. Minevitch and W. M. Malisoff. map Chem & Met Eng 30:501-4 Mr 31 '24

Texas

Laying the ghost of a war-time trouble. G. E. Mitchell. il Sci Am 130:180+ Mr '24
Potash instead of oil in Texas. Pet Age 15: 53 Je 1 '25
Potash of the Texas Panhandle. C: W. Dabney. Chem Age 32:37-8 Ja '24
Texas—future source of American potash. C: W. Dabney. Comm & Fin 13:807-8 Ap 23 '24
Texas potash. Chem Age 32:190 Ap '24
Texas potash possibilities should appeal to American capitalists for development. Manuf Rec 85:59-60 Ja 31 '24

United States

American potash—a progress report. J. W. Turrentine. Ind & Eng Chem 16:1192-3 N '24
Future sources of potash and ammonia. J. W. Turrentine. Chem & Met Eng 32:284 F 16 '25
Past and present of American potash. Eng & Min J 118:854 N 29 '24
Plenty of potash from American sources. J. W. Turrentine. Chem Rec Age 23:6-7 My 11 '25; Same. Manuf Rec 87:69-70 Ap 23 '25
Polyhalite—a source of American potash. Chem Age 32:500 D '24
Potash in 1924. G: R. Mansfield and L. Boardman. U S Bur Mines Min Res of U S 1924, pt 2:27-61 [bibliog. p. 59-61] '25

POTASH, Caustic. See Potassium hydroxide

POTASH industry and trade
L'accord du 7 mai 1925 entre les potasses allemandes et françaises. P. Maquenne. Chimie & Ind 14:150-3 Jl '25
German caustic potash control strengthened values, 1924. Chem & Met Eng 32:138 Ja 19 '25
L'industrie de la potasse. J. Lucas. Chimie & Ind 14:145-9 Jl '25
International potash situation. J. W. Turrentine. Chemicals 24:7 S 7 '25
Potash accord believed tied up with phosphate; latter phase of Franco-German agreement. Oil Paint & Drug Rep 106:19 O 13 '24
What the potash pact means to American industries. Chem & Met Eng 31:891-2 D 8 '24
What will potash cost the farmer? J. W. Turrentine. Chem & Met Eng 31:191-2 Ag 4 '24

United States

Marketing of potash. C. H. MacDowell. Eng & Min J 117:557-8 Ap 5 '24
Potash in 1923. Eng & Min J 117:882 My 31 '24
Should we have a potash industry? J. W. Turrentine. Chem & Met Eng 31:14-15 Jl 7 '24

POTASSIUM
Absorption of potassium vapor at high temperatures, and satellites accompanying the members of the principal series. A. L. Narayan and D. Gunnayya. Phys R 23:46-7 Ja '24
Absorption spectrum of potassium vapour at high temperatures. N. K. Sur and R. N. Ghosh. Philos Mag 6th ser 49:60-4, pl 2 Ja '25
Analysis of resonance curves observed in potassium vapor. R. C. Williamson. Phys R 24:134-42 Ag '24
Low-voltage arcs in sodium and potassium vapours. F. H. Newman. diag Philos Mag 6th ser 49:1057-64 My '25
Modification of the thermionic current in vacuum tubes when potassium deposited on the inside walls or grid of the tube is illuminated. J. M. Hyatt. diags Phys R 23: 501-6 Ap '24
Photoelectric effect in potassium vapour as a function of the frequency of the light. E. O. Lawrence. diag Philos Mag 6th ser 50:345-59 Ag '25
Photo-electric response of potassium at low temperatures. J. W. Hornbeck. Phys R 24: 631-8 D '24
Potassium as a mercury-vapour trap. A. L. Hughes and F. E. Poindexter. diags Philos Mag 6th ser 50:423-39 Ag '25
Spectrum of potassium at low voltages. F. H. Newman. Philos Mag 6th ser 50:796-803, pl 26 O '25

Analysis

Hicks method of determining potassium. R. C. Wells, R. K. Bailey and J. G. Fairchild. Ind & Eng Chem 16:935 S '24
Sodium 6-chloro-5-nitro-*m*-toluenesulphonate; a new reagent for potassium. H. Davies and W: Davies. Chem Soc J 123:2976-82 N '23

POTASSIUM amide
Displacement of metals from solutions of their salts by less electropositive elements; the reaction between amides of the alkali and alkaline earth metals and elements more electropositive than tin. F. W. Bergstrom. Am Chem Soc J 47:1836-41 Jl '25

POTASSIUM amide—*Continued*
Displacement of metals from solutions of their salts by less electropositive elements; the replacement of sodium and potassium by magnesium and aluminum. F. W. Bergstrom. Am Chem Soc J 45:2788-94 D '23
Reaction between potassium amide and certain salts of cobalt and iron in liquid ammonia. F. W. Bergstrom. Am Chem Soc J 46:2631-6 D '24

POTASSIUM ammono-aluminate
Potassium ammono-aluminate, potassium ammonomanganite and manganous amide. F. W. Bergstrom. diags Am Chem Soc J 46: 1545-58 Jl '24

POTASSIUM ammonomolybdite
Action of ammonia and of a solution of potassium amide in liquid ammonia on certain halides of molybdenum and tungsten. F. W. Bergstrom. diag Am Chem Soc J 47:2317-23 S '25

POTASSIUM ammonotungstite
Action of ammonia and of a solution of potassium amide in liquid ammonia on certain halides of molybdenum and tungsten. F. W. Bergstrom. diag Am Chem Soc J 47:2317-23 S '25

POTASSIUM antimonoxalate
Potassium antimonoxalate. L. H: A. Holmes and E. E. Turner. Chem Soc J 127:1753-4 Jl '25

POTASSIUM bromate
Electrolytic preparation of potassium bromate with carbon electrodes. D. T. Ewing and H. W. Schmidt. Am Electrochem Soc Trans v 47 (preprint 11):133-7 Ap '25

POTASSIUM bromide
Influence of water on certain chemical reactions; the effect of various concentrations of water vapor on the reaction between chlorine and potassium iodide and chlorine and potassium bromide. L. B. Parsons. Am Chem Soc J 47:1817-20 Jl '25

POTASSIUM carbonate
Action of potassium carbonate on lead glass. E. A. Coad-Pryor. Soc Chem Ind J 43:27-8 F 8 '24

POTASSIUM chlorate
Accurate evaluation of potassium chlorate by the method of Bunsen. E. C. Wagner. diag Ind & Eng Chem 16:616-20 Je '24
Chemical and material markets in 1923. Chem & Met Eng 30:106-7 Ja 21 '24
Chlorate of potash and logwood extract in hearings before Tariff commission. Chem & Met Eng 29:939-40 N 19 '23
Decomposition of potassium chlorate and its catalysis by potassium chloride. C. E. Otto and H. S. Fry. Am Chem Soc J 46:269-76 F '24
Evaluation of chlorates; a comparison of seven selected methods applied to a single lot of potassium chlorate of high purity. E. C. Wagner. bibliog il diags Ind & Eng Chem 17:1183-6 N '25
Presidential proclamation increasing duty on potassium chlorate from 1½ to 2¼ cents a pound. Comm & Fin Chr 120:1965 Ap 18 '25
Using refrigeration for removing salts from solution. H. J. Macintire. diag Chem & Met Eng 31:229-30 Ag 11 '24
See also Potassium perchlorate

POTASSIUM chloride
Activities of strong electrolytes; a revision of the activity coefficients of potassium, sodium, and lithium chlorides, and potassium hydroxide. G: Scatchard. Am Chem Soc J 47:648-61 Mr '25
Activities of strong electrolytes: the use of the flowing junction to study the liquid-junction potential between dilute hydrochloric acid and saturated potassium chloride solutions; and the revision of some single-electrode potentials. G: Scatchard. diag Am Chem Soc J 47:696-709 Mr '25
Activity coefficient and ionic concentration product of water in sodium and potassium chloride solutions. H. S. Harned. Am Chem Soc J 47:930-40 Ap '25
Activity coefficient of potassium hydroxide in potassium chloride solutions. H. S. Harned. Am Chem Soc J 47:689-92 Mr '25
Calibration of cells for conductance measurements; absolute measurements on the specific conductance of certain potassium chloride solutions. H: C. Parker and E. W. Parker. diags Am Chem Soc J 46:312-35 F '24
Constitution of soap solutions in presence of electrolytes; potassium laurate and potassium chloride. W: C. Quick. Chem Soc J 127:1401-11 Je '25
Densities of certain aqueous potassium chloride solutions as determined with a new pycnometer. H: C. Parker and E. W. Parker. diag J Phys Chem 29:130-7 F '25
Ionic equilibria across semi-permeable membranes. N. Kameyama. Philos Mag 6th ser 50:849-64 O '25
Moving-boundary method for determining transference numbers; the transference numbers of some chloride solutions. E. R. Smith and D. A. MacInnes. diag Am Chem Soc J 47:1009-15 Ap '25
Potash from kelp; certain equilibria used in the manufacture of potassium chloride from kelp brines. J. W. Turrentine and H. G. Tanner. Ind & Eng Chem 16:242-8 Mr '24
Preparation of electrolytic mercurous chloride in saturated potassium chloride for use in the calomel electrode. W. W. Ewing. diag Am Chem Soc J 47:301-5 F '25
Reciprocal salt-pair $Na_2Cr_2O_7 2KCl \rightleftharpoons K_2Cr_2O_7 + 2NaCl$. J: B. Robertson. Soc Chem Ind J 43:334-8 N 21 '24
Solubility of sulphur dioxide in water and in aqueous solutions of potassium chloride and sodium sulphate. J: C. Hudson. diags Chem Soc J 127:1332-47 Je '25
Transference numbers of sodium and potassium chlorides and of their mixtures. J. Dewey. Am Chem Soc J 47:1927-32 Jl '25
Transference numbers of solutions of mixed chlorides; discussion of papers by Schneider and Braley and by Braley and Hall. D. A. MacInnes. Am Chem Soc J 47:1922-7 Jl '25

Patents
Conquering natural brines for commerce. C. T. Bragg and W. P. Putnam. Chem & Met Eng 31:468-9 S 22 '24

POTASSIUM chlororutheniates
Potassium chlororutheniates and the co-ordination number of ruthenium. S. H. C. Briggs. Chem Soc J 127:1042-8 My '25

POTASSIUM cobalticyanide
Hydrolysis of potassium ferricyanide and potassium cobalticyanide by sulphuric acid. H: Bassett and A. S. Corbet. Chem Soc J 125:1358-66 Je '24

POTASSIUM compounds
Action of salt solutions on iron and steel in the presence of oxygen. U. R. Evans. diags Soc Chem Ind J 43:315-22 O 31 '24
Commercial chemistry; the potashes. T: H. Norton. Chem Rec Age 23:11 Mr 23; 11 My 18 '25
Potassium salts of phenolphthalein. H: Bassett and D. J. T. Bagnall. Chem Soc J 125: 1366-73 Je '24
See also Potash

POTASSIUM cyanide
Occurrence of alkali cyanides in the iron blast furnace. S. P. Kinney and E. W. Guernsey. diag Ind & Eng Chem 17:670-4 Jl '25
Phase rule study of the cupro-, argento-, auro, and thallo-cyanides of potassium. H: Bassett and A. S. Corbet. Chem Soc J 125: 1660-75 Ag '24
See also Cyanide process

POTASSIUM dibenzhydroxamate
Reaction velocity of rearrangement of potassium dibenzhydroxamate. G. Dougherty and L. W: Jones. Am Chem Soc J 46:1535-9 Je '24

POTASSIUM dichromate
Chemical and material markets in 1923. Chem & Met Eng 30:112 Ja 21 '24
Determination of the melting and transition points of potassium dichromate. P. L. Robinson, G: E: Stephenson and H: V. A. Briscoe. Chem Soc J 127:547-9 Mr '25
Electrometric titration of antimony and tin by potassium dichromate. M. H. Fleysher. Am Chem Soc J 46:2725-7 D '24
Potassium bichromate as depolarizer. G. P. Vincent. J Phys Chem 29:875-81 Jl '25
Reciprocal salt-pair $Na_2Cr_2O_7+2KCl=K_2Cr_2O_7+2NaCl$. J: B. Robertson. Soc Chem Ind J 43:334-8 N 21 '24
Standardization of thiosulfate solution by the permanganate-iodide and dichromate-iodide methods. W: C. Bray and H. E. Miller. Am Chem Soc J 46:2204-11 O '24

POTASSIUM ethyl malonate
Anode phenomena in the electrolysis of potassium ethyl malonate. J: B. Robertson. Chem Soc J 127:2057-67 S '25

POTASSIUM ferricyanide
Hydrolysis of potassium ferricyanide and potassium cobalticyanide by sulphuric acid. H: Bassett and A. S. Corbet. Chem Soc J 125:1358-66 Je '24

POTASSIUM ferrocyanide
Chemical and material markets in 1923. Chem & Met Eng 30:117 Ja 21 '24

POTASSIUM fluoroplatinate
Method for the preparation of the double fluorides of the metals of the platinum group and the absorption spectra of the halogeno platinates. H. I. Schlesinger and M. W. Tapley. Am Chem Soc J 46:276-87 F '24

POTASSIUM hydroxide
Action of potassium hydroxide on nitric oxide. G. Barr. Chem Soc J 125:961-2 Ap '24
Activities of strong electrolytes; a revision of the activity coefficients of potassium, sodium, and lithium chlorides, and potassium hydroxide. G: Scatchard. Am Chem Soc J 47:648-61 Mr '25
Activity coefficient of potassium hydroxide in potassium chloride solutions. H. S. Harned. Am Chem Soc J 47:689-92 Mr '25
Caustic potash; made by electrolysis. Am Dyestuff Rep 14:552-4 Ag 24 '25
Potash—twin of caustic soda. Am Dyestuff Rep 13:586+ S 8 '24; Same. Color Tr J 15: 121-2 O '24
Studies on the swelling of cotton cellulose; cotton hairs in solutions of potassium hydroxide. G: E. Collins and A. M. Williams. Textile Inst J 15:T149-56 Ap '24
Velocity of reaction in mixed solvents; the velocity of saponification of certain methyl esters by potassium hydroxide in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 123:2688-98 O '23

POTASSIUM indigotin sulfonate
Spectroscopy of the sulfonated indigotins. W. C. Holmes. Am Chem Soc J 46:208-14 Ja '24

POTASSIUM iodide
Colorimetric determination of platinum by potassium iodide. E. G. R. Ardagh, F. S. Seaborne and N. S. Grant. diags Can Chem & Met 8:117-20, 140-2 My-Je '24
Decomposition of ethylene bromide by potassium iodide and sodium iodide solutions. T. S. Patterson and J: Robertson. Chem Soc J 125:1526-7 Jl '24
Influence of water on certain chemical reactions; the effect of various concentrations of water vapor on the reaction between chloride and potassium iodide and chlorine and potassium bromide. L. B. Parsons. Am Chem Soc J 47:1817-20 Jl '25
Molecular conductivity of potassium iodide in epichlorohydrin. N. A. Yajnik. Am Chem Soc J 45:3138 D '23
Reaction between potassium persulphate and potassium iodide in gelatin sols. S. O. Rawling and J: W: Glassett. J Phys Chem 29: 414-20 Ap '25
Relation between the structure of organic halides and the speed of their reaction with inorganic iodides. J. B. Conant and others. Am Chem Soc J 46:232-52; 47:476-501 Ja '24, F '25; Discussion. [pt. 1.] 47:585-9 F '25
Studies in photographic sensitivity. S. E. Sheppard, E. P. Wightman and A. P. H. Trivelli. il J Fr Inst 196:779-802 D '23
Viscosity and surface tension of solutions of iodine and potassium iodide. E. A: Dancaster. Chem Soc J 125:2036-7 O '24

POTASSIUM laurate
Constitution of soap solutions in presence of electrolytes; potassium laurate and potassium chloride. W: C. Quick. Chem Soc J 127:1401-11 Je '25
Constitution of soap solutions: migration data for potassium oleate and potassium laurate. J. W: McBain and R: C: Bowden. diags Chem Soc J 123:2417-30 O '23

POTASSIUM nitrate
Calculation of degree of photolysis of potassium nitrate. C. S. Robinson. diag Am Chem Soc J 46:1834-6 Ag '24
Famous nitrate fires of history. C: E. Munroe. il Chem & Met Eng 31:962-3 D 22 '24
Melting-point (*solidus*) curve for mixtures of potassium nitrate and sodium nitrate. W. M: Madgin and H: V. A. Briscoe. Chem Soc J 123:2914-16 N '23
Photolysis of potassium nitrate solutions. W: T. Anderson, jr. Am Chem Soc J 46:797-802 Ap '24

POTASSIUM oleate
Constitution of soap solutions; migration data for potassium oleate and potassium laurate. J. W: McBain and R: C: Bowden. diags Chem Soc J 123:2417-30 O '23
Electrolysis of potassium oleate. G: W: F. Holroyd and J. E. W. Rhodes. diag Chem Soc J 125:438-42 F '24

POTASSIUM oxalate
Potassium oxalate. Chem Rec Age 23:11 Ap 20 '25

POTASSIUM pentasulfide
Studies in the organic polysulphides; the action of anhydrous potassium pentasulphide on allyl iodide and on some aromatic compounds. J: S. Thomas and R: W: Riding. Chem Soc J 125:2214-19 N '24
Studies in the organic polysulphides; the action of anhydrous potassium pentasulphide on some alkyl halides. R: W: Riding and J: S. Thomas. Chem Soc J 123:3271-8 D '23

POTASSIUM perchlorate
Influence of catalysts on the production of potassium perchlorate by the action of heat on potassium chlorate. W. Farmer and J. B. Firth. Chem Soc J 125:82-7 Ja '24
Separation and determination of the alkali metals using perchloric acid; normal butyl alcohol and ethyl acetate as mixed solvents in the separation and determination of potassium, sodium and lithium. G. F: Smith and J: F. Ross. Am Chem Soc J 47:1020-6 Ap '25

POTASSIUM permanganate
Bleaching with potassium permanganate. Color Tr J 15:114-15 O '24
Chemical and material markets in 1923. Chem & Met Eng 30:112-13 Ja 21 '24
Determination of vanadium by reduction with hydrogen peroxide and titration with potassium permanganate. A. W. Hothersall. Soc Chem Ind J 43:270-2 Ag 8 '24
Oxidation of hydrazine; the limiting reaction of permanganate and manganic salts in acid solution with hydrazine. E. J. Cuy, M. E. Rosenberg and W: C. Bray. Am Chem Soc J 46:1796-1810 Ag '24
Potashes. Chem Rec Age 23:11 Ap 27 '25
Standardization of thiosulfate solution by the permanganate-iodide and dichromate-iodide methods. W: C. Bray and H. E. Miller. Am Chem Soc J 46:2204-11 O '24

POTASSIUM persulfate
Detection of persulphate in flour, and a recent bleaching agent for flour. J. Miller. Soc Chem Ind J 43:239-40 Jl 18 '24
Potashes. Chem Rec Age 23:11 My 4 '25

POTASSIUM persulfate—*Continued*
Reaction between potassium persulphate and potassium iodide in gelatin sols. S. O. Rawling and J: W: Glassett. J Phys Chem 29: 414-20 Ap '25

POTASSIUM phosphates
Potashes; potassium phosphates and glycerinophosphates. Chem Rec Age 23:11 My 4 '25

POTASSIUM phthalimide
Interaction of ββ'-dichlorodiethyl sulphide, sulphoxide, and sulphone with glycine ester and with potassium phthalimide. A. E. Cashmore and H. McCombie. Chem Soc J 123:2884-90 N '23

POTASSIUM sodium tartrate
Dielectric anomalies in Rochelle salt crystals. J. Valasek. Phys R 24:560-8 N '24
Relation between the mechanical and piezo-electrical properties of a Rochelle salt crystal. F. C. Isely. diags Phys R 24:569-74 N '24
Vapor pressures of Rochelle salt, the hydrates of sodium and potassium tartrates and their saturated solutions. H. H. Lowry and S. O. Morgan. Am Chem Soc J 46:2192-6 O '24

POTASSIUM tartrate
Vapor pressures of Rochelle salt, the hydrates of sodium and potassium tartrates and their saturated solutions. H. H. Lowry and S. O. Morgan. Am Chem Soc J 46:2192-6 O '24

POTASSIUM tetroxide
Interaction of potassium tetroxide with ice and with dilute sulphuric acid. H. Hawley and H: J. S. Sand. diag Chem Soc J 123: 2891-6 N '23

POTASSIUM-titanium oxalate
Potassium-titanium oxalate. T: H. Norton. Chemicals 23:11 My 25 '25

POTASSIUM triphenylmethyl
Reactions of compounds of triphenylmethyl and triphenylsilicyl in liquid ammonia. C: A. Kraus and R. Rosen. Am Chem Soc J 47: 2739-48 N '25

POTASSIUM xanthate
Analysis of xanthate. W. S. Calcott, F. L. English and F. B. Downing. Eng & Min J 118:980-1 D 20 '24
Determination of xanthate in impure solutions. A. F. Hallett and F. Ryder. Eng & Min J 119:690-1 Ap 25 '25
Potassium xanthate. Chemicals 24:8-9 O 12 '25
Rapid method of analyzing xanthate. W. Hirschkind. Eng & Min J 119:968-70 Je 13 '25

POTATOES
Potato crop. Comm M 6:14-15 Ap '25
Potatoes packaged and graded for special uses. Ptr Ink 126:152 Ja 10 '24
Solanine content of potatoes. A. Bömer and H. Mattis. Soc Chem Ind J (Abstracts) 43: 487 Je 13 '24
Value of sulfur in soil improvement and crop production. J. G. Lipman. Ind & Eng Chem 16:250-2 Mr '24
World's production of potatoes in 1924. Econ W n s 29:124 Ja 24 '25

See also Sweet potato flour

Freezing

Freezing injury to potatoes in storage or transit. R. C. Wright. Refrig W 60:13-14 Je '25

Prices

Freight rates and potato prices. Ry Age 77:988 N 29 '24; Same. Comm & Fin Chr 119:2494-5 N 29 '24
New bulletin on relation of potato prices to transportation costs. Ry R 75:852 N 22 '24

POTENTIAL, Electric. See Electric currents; Electromotive force

POTENTIOMETERS
Convenient battery power-line circuit for the potentiometer. A. Leighton. diag Ind & Eng Chem 16:1189-90 N '24
Electric temperature indicators. I. M. Stein. diags Power Pl Eng 28:1103-5 N 1 '24
Potentiometer arrangement for measuring microvoltages at radio frequencies. A. G. Jensen. diag Phys R 26:118-20 Jl '25
Potentiometers. J: R. Meagher. diags Wireless Age 12:54-5+ Ja '25
Potentiometric hydrogen-ion measurements with non-gas electrodes. H: C. Parker. il Ind & Eng Chem 17:737-40 Jl '25

POTTER, Mark W.
Distinctive services of Inter-state commerce commissioner Mark W. Potter. Comm & Fin Chr 120:748-50 F 14 '25

POTTER, William C., 1874-
Mining engineers of note. por Eng & Min J 117:44 Ja 12 '24

POTTER plan. See Railroads—Rates—Potter plan

POTTERIES
Modern pottery works of Thomas Maddock's sons company. il plan Am Arch 128:111-16 Jl 29 '25
New Homer-Laughlin unit immense establishment. il Brick & Clay Rec 64:660-3 Ap 29 '24
Thomas Maddock sons company new plant. il Sanitary & Heat Eng 103:428-30+ Je 26 '25
Whiteware. Am Cer Soc J (Cer A 3):246-7 Ag '24

Accounting

Report on cost accounting in the pottery industry. E. J. Borton. Brick & Clay Rec 64: 351-3 Mr 4 '24

Equipment

Rubber in the ceramic industry. E: W. Lawler. il India Rubber W 69:291-2 F '24

Management

Handling and storing raw materials to produce uniformity in a body. R. Twells, jr. diags Am Cer Soc J 7:82-5 F '24

POTTERS
Labor relations in the pottery industry. Monthly Labor R 18:240-2 F '24
Lead poisoning among pottery workers; abstract. F. Shufflebotham. J Ind Hygiene 6:sup89-90 N '24

See also Lang, Anton

POTTERY
A B C of collecting old English pottery. J. F. Blacker. 4th ed. 344p S. Paul & co., London '23; Cornhill pub. co., Boston
A B C of nineteenth-century English ceramic art. J. F. Blacker. 534p S. Paul & co., ltd., London; Cornhill pub. co., Boston '24
Additional designs on prehistoric Mimbres pottery. J. W. Fewkes. 46p Smithsonian inst., Washington, D.C. '24
American ceramics for interior decorating. P. E. Cox. Am Cer Soc J (Bul) 8:418-23 S '25
Anton Lang, the potter of Oberammergau. il Brick & Clay Rec 64:119-20 Ja 22 '24
Balling in cast ware. W. K. McAfee. diags Am Cer Soc J 8:430-1 Jl '25; Discussion. (Bul) 8:541-3 O '25
Ceramic decorative process suitable for public school use. P. E. Cox. il Am Cer Soc J 7: 511-12 Jl '24
Chemical pottery. J. G. Roberts. Soc Chem Ind J (Chem & Ind) 43:1156-7 N 21 '24
China and glassware. F. J. Ringo. 166p (Merchandise manuals for retail salespeople.) Shaw '25
Determination of porosity of china by the water soaking method. E: Schramm. Am Cer Soc J 7:444-6 Je '24
Dynamic symmetry as applied to pottery. G. M. A. Richter. il diags Am Cer Soc J 8:131-7 Mr '25
Faience. A. Vanderlaan. Am Inst Arch J 12: 92-4 F '24
Fundamental factors in the use of pottery plaster. Am Cer Soc J 8 (Cer A 4):197 Jl '25
Gloss glazes and Indian designs on North Dakota pottery. M. Cable. il Am Cer Soc J 7:489-93 Je '24

POTTERY—*Continued*
Guide to the pottery & porcelain of the Far East. 168p British museum, Dept. of ceramics and ethnography, London '24
Medieval European pottery. R. F. Sherwood. Am Cer Soc J (Bul) 8:211-18 My '25
Pots and pines, a decorative problem for the artist potter. M. K. Cable. il Am Cer Soc J 8:393-5 Je '25
Pottery. C: J. Noke and H. J. Plant. 136p Pitman '24
Pottery and porcelain, a handbook for collectors. E. Hannover. 3v E. Benn, ltd., London; Scribner, N.Y. '25
Pottery decorating. R. Hainback. 2d English ed., rev. 256p Van Nostrand '24
Pueblo pottery making. C. E. Guthe. 89p [bibliog. p. 89] Yale university press, New Haven '25
Uses of ceramics in interior decorating. M. M. French. Am Cer Soc J (Bul) 8:415-18 S '25

See also Ceramic industries; Ceramics; Clay; Clay industries; Clay products; Earthenware; Enamel and enameling; Glazes; Kilns; Porcelain; Potteries; Potters; Saggers; Sanitary ware; Stoneware; Terra cotta; *also* American ceramic society

Dictionaries

Practical ceramic dictionary for the potter, tile and terra cotta manufacturer. C. M. Franzheim. 89p Demarest publications, inc., New York '24

Manufacture

Bonding effect of ball clays in fired bodies. H. H. Sortwell. Am Cer Soc J 7:75-81 F '24
Changes in the constitution and microstructure of andalusite, cyanite, and sillimanite at high temperatures and their significance in industrial practice. A. B. Peck. il Am Cer Soc J 8:407-29 [bibliog. p. 428-9] Jl '25
Continuous grinding in the ceramic industry. il Chem & Met Eng 30:783-4 My 19 '24
Course in pottery at the Pennsylvania museum school of industrial art. E. de F. Curtis. il diags Am Cer Soc J 8:138-42 Mr '25
Development of decorative processes at Newcomb. M. G. Sheerer. il Am Cer Soc J 7: 645-9 Ag '24
Observations on pinholing in cast ware. R. W. Hemphill. Am Cer Soc J 8:145-7 Mr '25; Discussion. (Bul) 8:221-3 My '25
Operation data on continuous decorating kiln at Mt. Clemens pottery company. J: T. Jans. il Am Cer Soc J 7:626-9 Ag '24
Operation of direct fire tunnel kilns. V. J. Roehm. diags Am Cer Soc J 8:514-24 Ag '25
Pinholes; causes and remedies. H. J. Plant. Chem Age (Lond) 12:14 Mr 21 '25
Plymouth pottery project. Chem Age (Lond) 12:sup9-10 F 21 '25
Problem of heat economy in the ceramic industry. W. M. Cohn. il diags Am Cer Soc J 7: 359-76, 475-88, 548-58; Bibliography. 558-62 My-Jl '24
Some experience with the Dorr mill in grinding quartz and flint for pottery purposes. A. S. W. Odelberg. Am Cer Soc J 7 (Cer A 3): 17-18 Ja '24
Unusual case of warping of flat ware in the glost kiln. T: A. Shegog. Am Cer Soc J 7: 377-8 My '24

Specifications

United States government master specification for vitrified chinaware. diags U S Bur Stand Circ 202:1-16 '25

POTTERY, Chinese
Later ceramic wares of China. R. L. Hobson. 155p E. Benn, ltd., London; Scribner, N.Y. '25

POTTERY industry
Growth of the pottery industry. Comm M 7:13-15 My '25
1923 growth in pottery industry. Brick & Clay Rec 63:930-1 D 25 '23

See also Sanitary potters' association

Great Britain

Potter and his competitors. Economist 99: 338-9 Ag 30 '24

POTTSVILLE, Pennsylvania

Water supply

Additional water supply for Pottsville water company, Pottsville, Penn. N. J. Beisel. il diags N E Water Works Assn J 39:47-67 Mr '25

POULTRY brooders
Electric brooders offer farm application. Elec W 86:858-9 O 24 '25

POULTRY houses

Lighting

Artificial illumination of poultry houses for winter egg production. Am Inst E E J 44: 139 F '25; Same. Illum Eng Soc 20:319-20 Ap '25

POULTRY industry
At 14 Nathan Schweitzer did $20,000 business: now he tops his trade. W: A. McGarry. Forbes 16:247-8+ Je 1 '25
Gas in the poultry business. L. J. Peterson. il Gas Age 55:396+ Mr 14 '25

Advertising

Business hatched out of a farm boy's incubator. J. H. Collins. Ptr Ink M 10:68+ Ja '25
Mail selling turns this chick stock 104 times a year. G. A. Nichols. Ptr Ink 132:113-14 Ag 13 '25

Southern states

Increasing agricultural prosperity by poultry raising. W. T. White. il Manuf Rec 86:71-2 Jl 17 '24

POURCEL, Alexandre
L'œuvre de M. Alexandre Pourcel, doyen des métallurgistes français. Génie Civil 84:575 Je 14 '24

POVERTY
Comparative values in poverty and affluence. Comm & Fin Chr 120:499-501 Ja 31 '25

POWDER, Smokeless. See Smokeless powder

POWDER-POST beetles
Beetles attack lead cables and interrupt service. S. R. Winters. il Elec W 83:1337-8 Je 28 '24
Powder-post in buildings. T. E. Snyder. il Am Inst Arch J 13:317-19 Ag '25

POWDERED coal. See Coal, Pulverized

POWDERED meat. See Meat, Powdered

POWDERS
How much does screen-testing mean? R. B. Ladoo. il Chem & Met Eng 31:623-6 O 20 '24

See also Flour handling

POWELL, Thomas C.
President of the Chicago & Eastern Illinois. Ry Age 79:141-3 Jl 18 '25

POWER (mechanics)
Appraisal of power used on farms in the United States. C. D. Kinsman. U S Agric Bul 1348:1-76 '25
Atmospheric heat as a source of power. H. H. Platt. Sci Am 131:120 Ag '24
Beitrag zur theorie der ausnützung von naturkräften. R. I. Nowotny. Zeit Ver Deutsch Ing 68:101-6 F 2 '24
Changes effected since the 18th century by power-driven machinery. L. O. Welcome. il Dun's Int R 45:50-4 My '25
Combined gas and electricity undertakings. J. G. Walthew. il Gas J (Lond) 169:340-2; Discussion. 342-3 F 11 '25
Factors determining source of power. C. A. Joerger. Power Pl Eng 28:1054-5 O 15 '24
First world power conference, Wembley, June 30. Power 60:160-5 Jl 29 '24; Mech Eng 46: 550-3 S '24
Growth and influence of mechanical power. W: L. De Baufre. Power Pl Eng 29:809-10 Ag 1 '25

POWER (mechanics)—*Continued*

Is the end of our power resources in sight? maps Sci Am 131:396 D '24

Les limites des cycles utilisables dans la production de force motrice par la vapeur. G. Delanghe. diags Génie Civil 87:305-8, 326-8 O 10-17 '25

Low-head heat. Power 59:792 My 13 '24

More steam-engine power without steam. I. Ginsberg. il Sci Am 130:168+ Mr '24

Neue wege der energiewirtschaft. Dr Löffler. il diags Zeit Ver Deutsch Ing 68:161-9 F 23 '24

Neuzeitliche energiewirtschaft. H. v. Glinski. diags Zeit Ver Deutsch Ing 69:141-7, 179-84 F 7-14 '25

Organizing to reduce the cost of power. J. P. Jordan. Ind Management 68:336-40 D '24

Pandora's box. R. W. Bruère. Mech Eng 46: 355-6 Je '24

Power consumption of small refrigerating machines. J: E. Starr. Power 60:59-60 Jl 8 '24; Abstract. Refrig Eng 11:22-3 Jl '24

Power economy in elevating ore pulps. C. W. Tandy. Eng & Min J 118:128 Jl 26 '24

Power from the earth's heat. T: T. Read. il Mech Eng 46:446-8 Ag '24

Power in the iron and steel industry in 1924. B. R. Shover. Blast F & Steel Pl 13:49-53 Ja '25

Power resources, present and prospective. F. R. Low. Mech Eng 47:1-4 Ja '25; Same cond. Iron Tr R 75:1645-7 D 18 '24; Same cond. Power 60:937-9 D 9 '24

Power situation in the United States in million horsepower. S. S. Wyer. diag Am Cer Soc J (Bul) 6:377-8 D '23

Progress in the power field. B. R. Shover. diag Blast F & Steel Pl 12:129-33 F '24

Research and power. E. W. Rice, jr. il Sci Am 131:234-5+ O '24

Social reactions of cheap power. F. A. Macquisten. Engineering 118:185 Ag 8 '24

Some future problems in engineering. W: B. Parsons. J Fr Inst 200:219-34 Ag '25

Storing energy. Power 60:510 S 23 '24

Tapping the earth's heat. Power 60:590 O 7 '24

See also Coal mines and mining—Power; Compressed air; Dynamometer; Electric power; Force and energy; Hydroelectric power; Machinery; Mining engineering—Power; Paper mills—Power; Pneumatic tools; Power cost; Power factor; Power plants; Power transmission; Rolling mills—Power; Steam; Steam, Natural; Steel works—Power; Textile mills—Power; Tide power; Water power; Wind power; *also* World power conference, London, 1924

POWER contracts

Contracting for electric power service. S. Withington. Ry Age 77:165-7 Jl 26 '24

Illinois Central railroad contract. Elec W 85:98-100 Ja 10 '25; Elec Ry J 65:63-5 Ja 10 '25

Making power contracts that will save your purse. W. H. Russell. Coal Age 26:437-8 S 25 '24

POWER cost

Analysis of purchased power. H. E. M. Kensit. Can Eng 49:341 S 22 '25

Application of electric energy to the modern ice making and refrigerating plant. P. Schlingman. diag Refrig Eng 11:165-72 N '24; Same cond. Power Pl Eng 28:867-8, 961-3 Ag 15, S 15 '24; Discussion. Refrig Eng 11:172 N '24; Power Pl Eng 28:1111 N 1 '24

Big Four railroad reduces power costs. il plans Power 62:554-6 O 13 '25

Cheap power in combined steam and oil engine plant; Doubleday, Page & co.'s plant. il Power 61:404-5 Mr 17 '25

Choice of the prime mover for an ice plant. M. S. Howard. il Power 60:403-5 S 9 '24

Comparison of water and steam-power costs. G: A. Orrok. Power Pl Eng 28:198-9 F 1 '24; Same. Power 59:69-70 Ja 8 '24

Cost of electric power and central station power rates. J: D. Noyes. Refrig Eng 11: 14-17+ Jl '24

Costs of purchased power and private operation. Elec W 83:582 Mr 22 '24

Decreasing maximum demand lessens power cost. W. J. Risley, jr. il Chem & Met Eng 32:391-2 Mr '25

Dollars and cents of low power factor. O. H. Henschel. Ind Management 69:138-44 Mr '25

Economic consideration of power service. J: D. Morgan. Power Pl Eng 29:200-2 F 1 '25

Economics of power consumption; with special reference to small d.c. motors. D. J. Bolton. Inst E E J 62:901-8 N '24

Electric energy from large power plants. H. E. M. Kensit. Can Eng 48:396-8 Ap 14 '25

Electric power as a byproduct of process steam generation. T. Maynz. Chem & Met Eng 32:5-9 Ja 5 '25

Electric power in Oklahoma oil fields. il Elec W 85:1119-22 My 30 '25

Electrical power costs; analysis of how to avoid maximum demand charges. D. Ross. Ross. Management & Adm 10:285-6 N '25

Elektromotor, rohölmotor oder benzolmotor? W. Windel. Elektrotech Zeit 46:302-4 F 26 '25

Facts on the problem of electrification. J. R. Downs. Brick & Clay Rec 65:323-6 S 2 '24

Fuel—and power costs. F. Juraschek. il diags Ind Management 69:225-31 Ap '25

Gas engine in the steel industry. A. D. Danks. Mech Eng 46:456-9 Ag '24; Abstract. Power 59:946-8 Je 10 '24

Generated or purchased power in the paper mill. A. F. Sheehan. Power 62:539-40 O 6 '25

Höchstpreise für stromlieferung. W. Windel. Elektrotech Zeit 45:995-1000, 1027-32; 46: 117-19 S 18-25 '24, Ja 22 '25

How we reduced our power costs. Ind Management 69:112-15, 183-8, 215-17 F-Ap '25

Industrial power. M. D. Church. Paper Tr J 79:88+ N 27 '24

Installing non-condensing turbine lowers factory power costs. F. A. Westbrook. il Power 61:896-8 Je 9 '25

Isolated plant power costs. A. R. Knapp. Power 58:778-9 N 13 '23

Large saving possible in industrial plants by use of high steam pressures. A. F. Sheehan. Power 60:378-9 S 2 '24; Discussion. 60:622, 776 O 14, N 11 '24

Modern equipment reduces cost of power; steam equipment of the Abbeville, La., municipal light plant replaced by Diesels. il Power 60:210-11 Ag 5 '24

Modernized hotel plant shows saving over purchased power. E. S. Glauch. Power 61: 522-3 Ap 7 '25

Motor vs. engine in driving centrifugals. R Hudson. Chem & Met Eng 30:954 Je 16 '24

No Northeast hydro growth after 1930. Elec W 83:688 Ap 5 '24

Oil engines in ice plants. G. H. Corlette. Refrig W 60:9-13 Mr '25

Oil power reduces costs in ice cream plant. il Power Pl Eng 29:399-401 Ap 1 '25

Partial electrification leads to full use of central-station power. G. W. Quentin. Elec W 83:632-3 Mr 29 '24

Power a small percentage of manufacturing cost. Elec W 86:472 S 5 '25

Power and heating for the small manufacturing plant. D: M. Myers. diag Power 62:524-6 O 6 '25

Power costs in cotton mills. Elec W 83:621-3 Mr 29 '24; Abstract (Die betriebskosten in baumwollspinnereien und webereien der Vereinigten Staaten). Elektrotech Zeit 46:856-8 Je 4 '25

Power for textile mills. C: T. Main. Power 60:243-4 Ag 12 '24

Power requirements and sources of supply of New England. C: T. Main, H: I. Harriman and D. C. Jackson. Boston Soc C E J 11:193-219; Discussion. 219-22 My '24

Purchased power for laundry drive. G. W. Quentin and L. J. Lamberger. Elec W 83: 486-8 Mr 8 '24

Purchased power saves $15,000 in railroad shops. J. G. Horgan. Elec W 86:907-8 O 31 '25

POWER cost—*Continued*
Purchased power shows marked saving over private plant. R. H. Larson. Elec W 86: 75-6 Jl 11 '25
Purchased power vs. private plant. E. F. Wilson. Elec W 86:755-7 O 10 '25
Purchasing of power. A. Ulmann, jr. Power 60:454-6 S 16 '24
R. H. Macy & co. claim $100,000 yearly power saving. il Power 61:903 Je 9 '25
Relation of the oil engine to the economic production of power. C: E. Lucke. Power Pl Eng 28:573-4 My 15 '24
Should you generate electricity? J: R. Poteat. Textile World 64:3325+ D 1 '23
Small or large motors for industrial plants. M. G. Farrell. il Power Pl Eng 29:901-5 S 1 '25; Discussion. A. F. Sheehan. 29:1064 O 15 '25
Snook O'Brien's model diversified electrical farm. J: W. Otterson. il J Elec 54:591-4 Je 15 '25
Solving an industrial plant problem; private power plant proved more economical than purchased current. C. E. Roe. il diag Power 59:810-12 My 20 '24
Unbiased comparison of ice-plant drives. Elec W 86:264-6 Ag 8 '25; Discussion. 86:902 O 31 '25
United States public printer makes large saving in rebuilding power plant. il Power 62: 712-14 N 10 '25
Use of electricity in the oil fields. W. G. Taylor. Am Pet Inst Bul 4:100-6 D 31 '23; Same. Nat Pet N 15:67-8+ D 26 '23
Value of efficiency in transforming and distributing energy. C: E. Lucke. diags Mech Eng 46:317-24, 380-5 Je-Jl '24; Excerpts. Engineer 137:690 Je 20 '24; Power 59:1005-7 Je 17 '24
What is a B.t.u. worth? Power 60:820 N 18 '24
What is revealed by our power questionnaire. Ind Management 69:177-8 Mr '25
Why pay for the power that you do not get? W. W. Tracy. il Factory 34:964+ Je '25

See also Electric plants (central stations) —Costs; Electric service, Rural—Cost; Waste fuel

Accounting

Apportioning engine room costs in combined ice making and cold storage plants. J. H. Howell. Refrig W 60:12-14 Ag '25
Avoiding losses in incorrect power cost distribution. W. N. Polakov. il Management & Adm 9:433-6, 553-6 My-Je '25
Cost analysis indicates way to economy in Cincinnati office building. il diag Power Pl Eng 29:947-50 S 15 '25
Distribution of power expense. M. Sampson. Textile World 65:1604+ Mr 1 '24
Expense of power and building service. J. P. Kendall. Paper Tr J 78:54-6 F 21 '24
Getting the facts of power costs. J. P. Jordan. Ind Management 69:49-54 Ja '25
Plant records tell where the coal dollars go; report of N.A.S.E. committee. Power Pl Eng 29:1051-3 O 15 '25
$20,000 a year lost through wrong power figures. A. F. Sheehan. Management & Adm 10:39-40 Jl '25
Verteilung der leistungskosten elektrischer arbeit. E. Schiff. Elektrotech Zeit 46:758-61 My 21 '25

POWER factor

L'amélioration du facteur de puissance. Génie Civil 85:455-6 N 15 '24
Die änderung des leistungsfaktors auf dem wege vom generator zum gleichrichter; abstract. H: Kaden. Elektrotech Zeit 45:248 Mr 20 '24
Application of static condensers to power-factor correction. R. E. Marbury. il Power 61:648-50 Ap 28 '25
Asynchronous unity-power-factor motor. V. A. Fynn. il Elec W 85:816-18 Ap 18 '25
Benefits of power-factor correction; users of Fynn-Weichsel motors give their experience. A. M. Perry and H. C. Anderson. Elec W 85: 345-9, 621, 669-70, 825-6 F 14, Mr 21-28, Ap 18 '25
Capacity necessary to raise power factor. Elec W 85:1270 Je 13 '25
Chart for finding kva. required to raise power factor to desired value. Ind Eng 82: 595 D '24
Chart for power factor and current of three-phase motors. C: F. Cameron. Ind Eng 83: 549 N '25
Circle diagram for long lines. P. H. Thomas. diags Elec W 86:899-902 O 31 '25
Connecting up power factor meters. E. H. Stivender. diag Power 59:832 My 20 '24
Control of wattless current in power systems. S. Q. Hayes. il Power Pl Eng 29:141-5 Ja 15 '25
Correcting low power factor. C: R. Underhill. Power 62:86 Jl 21 '25
Correcting power factor. G: W. Quentin. Elec W 83:579 Mr 22 '24
Correcting power factor by synchronous condenser. F: Krug. Ind Eng 82:292 Je '24
Cost and prevention of low power factor. P. C. Jones. Elec W 86:316-17 Ag 15 '25
Die definition der schein- und blindleistung sowie des leistungsfaktors bei mehrphasenstrom. H. Schering. Elektrotech Zeit 45:710-12 Jl 3 '24
Determination of the reactive kv-a. and the capacity necessary to improve power-factor. J. Hak. Gen Elec R 28:798-9 N '25
Dielectric power loss and power factor of the charging current in insulating materials. Am Soc T M Pro 24 pt 1:651-8 '24
Dollars and cents of low power factor. O. H. Henschel. Ind Management 69:138-44 Mr '25
Economic aspects of power-factor correction. A. S. Knight. Elec W 85:662-3 Mr 28 '25
Economic considerations of the power factor control of long high-voltage lines. A. V. Joslin. Am Inst E E J 42:1248-50 D '23; Discussion. 43:449-50 My '24
Economics of power-factor correction. R. C. R. Schulze. Elec W 84:1247-51 D 13 '24; Discussion. 85:100, 202, 460 Ja 10, 24, F 28 '25
Effect of moisture and temperature on the power factor of transformer oil. J. E. Shrader. diags J Fr Inst 199:513-38 Ap '25
Der einfluss der gleichstrom-drosselspule auf den leistungsfaktor des wechselstromes beim quecksilberdampf-gleichrichter. W. Taeger. Elektrotech Zeit 45:774-5 Jl 17 '24
Einfluss des leistungsfaktors auf die tarifbildung von elektrizitätswerken. R. Rolland. Elektrotech Zeit 46:289-93 F 26 '25
Examples of power factor improvement. M. G. Farrell. diags Power Pl Eng 28:1005-8 O 1 '24
Experience with power-factor clauses. Elec W 82:1105-9 D 1 '23
Expression for most economical power factor. G: F. Marsteller. Elec W 85:977, 1401 My 9, Je 27 '25
Fluchtlinientafel zur berechnung des leistungsfaktors aus wirk- und blindarbeit. W. Groezinger. Elektrotech Zeit 46:663-4 Ap 30 '25
Fynn-Weichsel motor; a machine with inherent power factor correction and characteristics of an induction motor. V. A. Fynn. il Electrician 91:572 N 23 '23; Discussion. 91:669 D 14 '23
Fynn-Weichsel motor; a power-factor corrective for alternating-current distribution systems. H. Weichsel. il diags J Fr Inst 199:649-83 My '25
How power factor was improved by using rotary converter as synchronous condenser. R. W. Drake. il Ind Eng 83:262-4+ Je '25
Improvement of power factor by a kva rate. F. C. Taylor. il Elec W 84:800-1 O 11 '24
Improving plant operation by correcting power factor. H. D. Fisher. Power 58:917-18 D 4 '23
Improving the power factor. C: R. Underhill. il Power 62:456 S 22 '25
Induction-synchronous motor corrects low power factor; Fynn-Weichsel type. il Power 58:1021-2 D 25 '23; Management & Adm 6: 776-7 D '23; Ry Age 76:297 Ja 26 '24; Sci Am 130:91 F '24

POWER factor—*Continued*
Localized correction of power-factor. R. E. Marbury. il Elec J 21:583-6 D '24
Making a survey of the power load. H. E. Stafford. il diags Ind Eng 83:310-15+ Jl '25
Measurement of power-factor in industrial plants. R. A. Lane. diags chart Elec J 22: 391-3 Ag '25
Measuring power factor. L. D. Price. il diags Elec W 85:1131-2 My 30 '25
Measuring the reactive component. J: Auchincloss. il diags Gen Elec R 27:263-72 Ap '24
Die messung der blindleistung beim quecksilberdampfgleichrichter. L. P. Krijger. Elektrotech Zeit 46:48-50 Ja 8 '25
Need for simplified power-factor terminology. O. A. Kenyon. Elec W 85:459-60 F 28 '25
Ein neuer leistungsfaktormesser für drehstrom mit ungleicher belastung. H: Kafka. Elektrotech Zeit 45:1429-32 D 25 '24
New kilovolt-ampère demand meter. il diags Engineer 137:519-20 My 9 '24
Non-technical explanation of power factor; results of the Electrical apparatus co.'s competition. Elec R (Lond) 94:275-6, 319-20 F 15-22 '24; Electrician 92:196, 231 F 15-22 '24; Discussion. Elec R (Lond) 94:370-1, 412 Mr 7-14 '24; Electrician 92:230, 261, 294, 326 F 22-Mr 14 '24
Operation of synchronous motors for power factor correction. S. H. Mortensen. il Power 62:204-6 Ag 11 '25
Phase compensation; the use of induction motors and a.c. exciters in relation to power factor improvement. T. Ellis. il diags Electrician 94:590-2+ My 22 '25
Polyphase watthour meter also shows power factor. il Power Pl Eng 29:266 F 15 '25
Poor power factor. C. Sylvester. Electrician 92:768 Je 20 '24
Power and balance factor of a polyphase load. A. Russell. Inst E E J 62:16-18 D '23
Power distribution problems. S. O. Hayes. il Electrician 95:232-5 Ag 28 '25
Power factor; a simple, non-technical explanation. Elec R (Lond) 95:465-6 S 26 '24
Power factor control is important. il diags Power Pl Eng 29:70-3 Ja 1 '25
Power-factor correction. L. W. W. Morrow. Am Inst E E J 44:150-6 F '25; Excerpts. Power 61:435 Mr 17 '25
Power factor correction by motors. F. B. Wipperman. Elec W 86:855 O 24 '25
Power-factor correction by static condensers. il Elec W 84:1006 N 8 '24
Power-factor correction in hosiery mill. E. N. Dittenhofer. Elec W 86:365-7 Ag 22 '25; Discussion. 86:465 S 5 '25
Power-factor correction in Philadelphia. C: J. Russell. Elec J 21:201-2 My '24
Power-factor correction in practice. L. W. W. Morrow. diags Elec W 84:1096-1100 N 22 '24
Power factor correction; the utilisation of asynchronous-synchronous motors. il Electrician 91:577 N 23 '23
Power-factor correction with synchronous motors. N. J. Reed. Elec W 86:467-8 S 5 '25
Power factor improvement now a financial and commercial problem. Elec W 84:105, 317, 368 Jl 19, Ag 16-23 '24
Power factor in practice in the Pittsburgh district. L. W. W. Morrow. Elec W 86:213-17 Ag 1 '25
Power factor measurement in the field. Power Pl Eng 29:83 Ja 1 '25
Power-factor metering equipment. C. B. Wright. il Elec W 84:73-4 Jl 12 '24
Power-factor rate clauses. R. R. Herrmann. Elec W 84:1357-9 D 27 '24; Discussion. 85: 253, 615 Ja 31, Mr 21 '25
Power factor survey of generating plants. F: Krug. Elec W 83:781 Ap 19 '24
Power factor tariffs. E. W. Dorey. Electrician 92:534-6, 564-6 My 2-9 '24
Power measurements at high voltages and low power factors. J. S. Carroll, T: F. Peterson and G: R. Stray. il diag Am Inst E E J 43:941-9 O '24; Discussion. 44:513-22 My '25
Practical ways to correct power factor. H. B. Dwight. Elec W 84:1199-1200 D 6 '24
Present power-factor situation. C: J. Russell. Elec W 84:674 S 27 '24
Primäre stromkurvenform und leistungsfaktoren bei gleichrichtern. K. Faye-Hansen. diags Elektrotech Zeit 46:1104-6 Jl 23 '25
Principles of power factor correction. C: G. Green. diags Power Pl Eng 29:959-60 S 15 '25; Discussion. F. C. De Weese. 29:1111 N 1 '25
Recent developments in kilovolt-ampere metering. B. H. Smith and A. R. Rutter. il diags Am Inst E E J 43:441-5 My '24; Discussion. 43:1176-8 D '24
Selection of corrective equipment; choosing static or synchronous condensers on an economic basis. M. A. Hyde. il Elec W 83:472-4 Mr 8 '24
Series reactance for static condensers. H. M. Jalonack. diags Elec W 84:1003-4 N 8 '24
Static condensers for the higher distribution voltages. R. A. Lane. il Elec J 22:68-71 F '25; Same cond. Engineer 139:543-4 My 15 '25
Study of power-factor correction. R. A. Lane. il Elec W 86:803-4 O 17 '25
Synchronous apparatus can improve power factor. R. C. Muir. Coal Age 28:45-6 Jl 9 '25
Synchronous motors used for voltage and power-factor regulation. S. H. Mortensen. il Power 62:47-9 Jl 14 '25
30 years of the power-factor problem. W. A. Layman. Elec W 84:791-3 O 11 '24
This puzzling power factor. Elec R (Lond) 96:970 Je 19 '25
Transmission losses and low power factor. P. C. Shults. chart Elec W 86:175-6 Jl 25 '25
Unity power-factor constant-current regulator. L. Dorfman. il diags Elec J 22:86-9 F '25
Universal meter for electric power. B. H. Smith. il diags Elec J 21:112-14 Mr '24; Abstract. Elec R (Lond) 94:631-2 Ap 18 '24
Use of reactive meters and graphs to determine power factor. O. N. Hansen. chart Elec W 86:952 N 7 '25
Use of special a. c. instruments. il diags Power Pl Eng 29:78-81 Ja 1 '25
What is the basis of a power-factor solution? Elec W 82:898, 1172 N 3, D 8 '23
When power-factor shoe is on other foot. il Elec W 84:900 O 25 '24
Why not discard the term power factor? Elec W 86:837 O 24 '25

POWER plant auxiliaries. See Electric driving—Power plant auxiliaries

POWER plants
Broadening field of service for power-plant engineers. W. Slader. Power 59:409-12 Mr 11 '24
Brotherhood of locomotive engineers extends banking facilities; new building at Cleveland equipped with a power plant. R. G. Nairn. il plan Power Pl Eng 29:778-84 Ag 1 '25
Cheap power in combined steam and oil engine plant; Doubleday, Page & co.'s plant. il Power 61:404-5 Mr 17 '25
Community service from mill power plant. C: L. Hubbard. plans Textile World 68:657+ Ag 1 '25
Construction of power plant walls. il Power Pl Eng 28:1260-1 D 15 '24
Control of power production. C: L. Hubbard. il diags Factory 31:298-301+, 451-2+, 602-5+; 32:482-6, 655-7+, 822-5+; 33:26-9+, 202-6+, 350-4, 667-70+, 805-8+; 34:68-71+, 274-7+, 431-7+, 606-10+, 764-9, 934-8+; 35:56-60+ S-N '23, Ap-S, N '24-Jl '25
Forty years of engineering progress. W: H. Patchell. Power 60:825 N 18 '24
Increasing financial efficiency by eliminating unnecessary initial expense. H. M. Vehling and H. S. Crawford. Power 62:357-9 S 8 '25
Justifiable small power plants. A. B. Mallinson. Inst E E J 63:896-901 S '25; Same cond. Elec R (Lond) 96:314-15 F 20 '25; Discussion. Inst E E J 63:901-15 S '25; Elec R (Lond) 96: 315 F 20 '25

POWER plants—*Continued*
Methods of operation at the Paterson parchment paper co. il charts Power Pl Eng 28: 932-6 S 15 '24
Model oil-burning railroad power plant at Parsons, Kan. il Ry Age 77:237-41 Ag 9 '24
Model small industrial plant. il Power 60:484-6 S 23 '24
Modern industrial power plant; Erie works of the General electric company. A. R. Smith. il Gen Elec R 28:312-15 My '25
Modern laundry power plant. il Power 59:162-4 Ja 29 '24
Oil engines in plants requiring steam. L. H. Morrison. il diag (supp) Power 61:613-15 Ap 21 '25
Oil engines practical even if process steam be needed. J. S. Le Clercq. il diag Power 59:322-3 F 26 '24
Operation of converting apparatus. V. E. Johnson diags Power Pl Eng 28:1059-61 O 15 '24
Plant at the new hotel Roosevelt. M. G. Farrell. il plans Power Pl Eng 29:122-7 Ja 15 '25
Power plant and refrigeration equipment. J. F. Musselman. il plans Arch Forum 39:254-8 N '23
Power plant chemistry; abstracts. W. M. Miles. Elec R (Lond) 94:1060-1; 95:36-7 Je 27-Jl 4 '24; Electrician 92:753-5 Je 20 '24; Discussion. Elec R (Lond) 94:1061-2 Je 27 '24; Electrician 92:755 Je 20 '24
Power plant depreciation factors. Management & Adm 8:631 D '24; Same. Paper Tr J 80:62 Ap 9 '25
Power plant of a large carpet mill. il Cassier's Ind Management 11:251-2+ My 1 '24
Power plant of Milwaukee sewage disposal works. il diags plans Power 60:316-22 Ag 26 '24
Power progress in 1924. J. A. Horne. Factory 34:46-7 Ja '25
Purdue university builds new power plant. il diags plans Power Pl Eng 29:876-83 S 1 '25
Recent advances made in power station practice. Elec R (Lond) 93:752-4 N 16 '23
La réglage automatique de la puissance d'une installation électrique. M. Doloukhanoff. Génie Civil 85:554-5; Discussion. Rateau. 85:555 D 13 '24
Rehabilitation of industrial power plant. il diag Power 62:642 O 27 '25
Résumé of recent power-station developments. J: H. Lawrence. Mech Eng 46:144-5 Mr '24
Roof construction for the power plant. diags Power Pl Eng 29:151-3 Ja 15 '25
Small industrial plant generates current at low cost; combined heating and generating. il Power 60:754-6 N 11 '24
Solving an industrial plant problem; private power plant proved more economical than purchased current. C. E. Roe. il diag Power 59:810-12 My 20 '24
Standard operating definitions proposed by N.E.L.A. prime movers committee. Power 62:545 O 6 '25
Stationary power plants for railroads. P. R. Duffey. il Ry Mech Eng 99:146-8 Mr '25
Steel company builds new power plant; new blast furnace and coke plant of the Columbia steel corp. at Provo. il diags plans Power Pl Eng 28:1034-41 O 15 '24
Trend of the times in engineering. H. E. Collins. Power 59:282-3 F 19 '24
Utilization of waste heat in Mexican cement plant. A. B. Stewart. il diags plans Concrete 24:sup49-57 Ap '24
Waterproof basements for power plants. Power Pl Eng 28:1161-2 N 15 '24
Well-equipped power plants pay industry dividends. il Chem & Met Eng 31:900 D 8 '24
Year's contribution to power-plant progress. il Power 59:2-6 Ja 1 '24

See also Boiler plants; Electric plants; Factories—Electric equipment; Gas power plants; Gas-steam plants (proposed); Hydroelectric plants; Hydroelectric plants—Auxiliary plants; Lubrication and lubricants; Piping (power plants); Steam plants; Torpedoes—Power plants

Accounting

Industrial power-plant records versus costs. H. H. Force. Power 62:408-10 S 15 '25

Costs

Diesel engine and its overall economy. C. B. Jahnke. N E Water Works Assn J 39:105-34 Je '25; Excerpts. Power Pl Eng 29:535-40 My 15 '25; Power 62:162-4 Ag 4 '25; Discussion. N E Water Works Assn J 39:141-4 Je '25
Is oil firing profitable? W. Viessman. Power 61:654-5 Ap 28 '25
New methods cut power plant costs. C. E. Killinger. il Management & Adm 9:325-8 Ap '25
Possible earnings control plant additions. A. F. Sheehan. Power Pl Eng 29:856-7 Ag 15 '25
Power plant building costs. J: D. Morgan. Power Pl Eng 28:1065-6 O 15 '24
Power-plant operating costs. Power 62:639-41 O 27 '25
Power plant unit costs and their engineering significance. L. Helander. Elec J 21:285-90 Je '24
Steam plant of Fisher body corporation. C. K. Little. il Power 60:240-3 Ag 12 '24
What is increased efficiency worth? Power 62: 677 N 3 '25

See also Power cost

Design

Are all power-plant designs justified. W. G. Diman. Power 58:1000-1 D 18 '23
Buildings for steam power plants. Power Pl Eng 28:948 S 15 '24
Developments in power station design. E. Austin. 271p Van Nostrand '23
Discussion on power plant design. diags Am Inst E E J 44:886-95 Ag '25
Increasing financial efficiency of simplification of plant design. H. M. Vehling and H. S. Crawford. diags Power 61:765-8 My 19 '25; Discussion. P. Badenhausen. 62:299-300 Ag 25 '25
Latest design and practice in power plants. Power 62:126-8 Jl 28 '25
Peculiar points in power-plant design. H: Clay. Power 62:179 Ag 4 '25
Problems in industrial power-plant design. A. C. Wood. Power 58:882-3 D 4 '23
Problems in power plant design. Cassier's Ind Management 11:486+ N '24
Pulverised fuel and its relation to modern power plant design. D: Wilson. Engineering 120:147-9 Jl 31 '25
Ratios in power-plant design. J: G. Fairfield. Power 61:1028-31 Je 30 '25
Some tendencies in modern power plant design. W. M. Keenan. Power Pl Eng 29:429-31 Ap 15 '25
Tendencies in power-plant design. A. A. Potter and J. W. Geiger. Power 61:774 My 19 '25
Thermal versus commercial efficiency. W. G. Diman. Power 60:764-5 N 11 '24
What is ahead in power plant design. B. N. Broido. diags Elec W 86:623-7 S 26 '25

Employees

Training course develops power plant personnel at the Falk corporation. H. A. Frommelt. Power Pl Eng 29:549-50 My 15 '25

Equipment

Arc welding as applied to power machinery. W. L. Warner. il Power 62:170 Ag 4 '25
Can we standardize power plant lubrication? A. F. Brewer. il Ind Management 69:19-23 Ja '25
Cheapest labor for the power plant. M: W. Potts. il Ind Management 70:116-21 Ag '25
Coal and ash handling plant at Leicester power station. G: F: Zimmer. diags plan Cassier's Ind Management 12:323-6, 365-7 Je-Jl '25
Compendium of modern power plant equipment. J. T. Beard. Ind Management 68: 331-5 D '24

POWER plants—Equipment—*Continued*
Copper and brass in the power house. W. G. Schneider. Power 62:365 S 8 '25
Lubricating power equipment. Textile World 64:3323+ D 1 '23
Management in power plant building. F. S. Clark. il Management & Adm 8:585-8 D '24
Modern power-plant equipment reflects changed conditions. P. W. Swain. Power 60:896-8 D 2 '24
New plant of Pittsburgh plate glass co. at Milwaukee. il Power 61:760-4 My 19 '25
One new industrial power plant replaces seven. C. B. Gorton and F. R. Innes. il diag plan Power Pl Eng 28:784-91 Ag 1 '24
Operating requirements of power-plant auxiliary equipment. Power 61:233-4 F 10 '25
Possible earnings control plant additions. A. F. Sheehan. Power Pl Eng 29:856-7 Ag 15 '25
Power exhibition of 1884; what it would have covered. il diags Power 60:870-4 D 2 '24
Power-plant equipment operating conditions. A. F. Sheehan. Power 62:496-7 S 29 '25
Present and future power equipment. H. E. Collins. Management & Adm 8:617-22 D '24
Purchasing power plant equipment. Power Pl Eng 28:795-6 Ag 1 '24
Recording service in the hotel Roosevelt engine room. il Power 61:206-8 F 10 '25
Savings produced by power equipment. G: E. Hagemann. Management & Adm 8:627-30 D '24
Selling to the power plants. il Sales Management 8:873-4 Je 13 '25
Small hoists for the power plant. il diag Power Pl Eng 28:712-13 Jl 1 '24
Some minor improvements in a power plant. G. H. Kimball. diags Power Pl Eng 28:1217-18 D 1 '24
Steam-driven auxiliaries are wasteful. Power 62:732-3, 951 N 10, D 15 '25
What is ahead in power plant design. B. N. Broido. diags Elec W 86:623-7 S 26 '25
What the lubrication engineer has done for power plant maintenance. A. F. Brewer. il diags Ind Management 66:281-9 N '23
Year's progress in the power field. il Power 61:2-26 Ja 6 '25

See also Coal handling

Heating and ventilation

Heating and ventilating a steam power station. D. S. Boyden and A. B. Williams. Power Pl Eng 29:296-8 Mr 1 '25
Heating system of the power plant. E. C. Warfield. diag Power 60:882-3 D 2 '24

Inspection

Inspection of power plant equipment. Power Pl Eng 29:350-1 Mr 15 '25
Periodic power-plant inspection. Power 59: 404-5 Mr 11 '24
Plant inspection and maintenance schedule. G: E. Gaster. Power 61:373-4 Mr 10 '25

Layout

C. B. & Q.'s model coal burning power plant; steam for shop requirements and for compressing air. il plan Ry Age 77:989-92 N 29 '24

Lighting

Salient features in power station lighting. R. A. Hopkins. il diags Illum Eng Soc 18:801-22 N '23; Same cond. Elec W 82:913-15 N 3 '23; Discussion. Illum Eng Soc 18:822-3 N '23
Unusual phases of power house lighting. A. F. Loewe. plans Power Pl Eng 28:898-900; 29:487-91 S 1 '24, My 1 '25

Maintenance and repair

Arc welding in power plants. W. L. Warner. il Power 61:336-8 Mr 3 '25
Maintenance work should be systematic. C. Brown. Power Pl Eng 28:1211-12 D 1 '24
Modern maintenance of plant and equipment. W: G. Ziegler. Ind Management 68:185-90 S '24
Plant inspection and maintenance schedule. G: E. Gaster. Power 61:373-4 Mr 10 '25
Welding and cutting torch in the power plant. Power 62:103, 656 Jl 21, O 27 '25

Management

Attention to details in the power plant. C. Mottern. Power 59:871-2 My 27 '24
Changes made in the power plant paid one hundred per cent dividends. A. F. Sheehan. Power 60:987-8 D 16 '24
Chicago A.S.M.E. holds power meeting. Power 59:151-2 Ja 22 '24
Cost analysis indicates way to economy in Cincinnati office building. il diag Power Pl Eng 29:947-50 S 15 '25
Cutting production costs by changes in the power plant. A. F. Sheehan. Power 62:415-16 S 15 '25
Dividends for dull times from savings in power plant operation. D: M. Myers. Management & Adm 8:417-19 O '24
Economic operation of the power plant. J: D. Morgan. Power Pl Eng 29:285-7 Mr 1 '25
Executive and his power department. M. Sampson. Textile World 65:2309+, 3803+; 66:1281+, 1867+, 2525+ Ap 5, Je 7, S 6, O 4, N 1 '24
Executive control of power economy. W. N. Polakov. charts Management & Adm 10:129-32 S '25
Fuel—and power costs. F. Juraschek. il diags Ind Management 69:225-31 Ap '25
High sustained economy in industrial plant. C. J. Colley. diag Power 62:13-15 Jl 7 '25
How often should engineers change shifts? Power 61:795; 62:106-7, 461, 618 My 19, Jl 21, S 22, O 20 '25
How one group of plant engineers interchange ideas. Factory 32:840+ Je '24
How small details can affect the economy of the power plant. A. F. Sheehan. Power 61: 997-9 Je 23 '25
How the management causes low efficiency. B. F. Goldin. Power Pl Eng 29:241-2 F 15 '25
How we reduced our power costs. Ind Management 69:112-15, 183-8, 215-17 F-Ap '25
Industrial executive—his power plant and his engineer. E. Douglas. Power 60:135 Jl 22 '24
Making your furnace suit your fuel. F. Juraschek. il diags Ind Management 69:285-90 My '25
Money may be saved by judicious spending. Power Pl Eng 29:709, 1017-18 Jl 1, O 1 '25
Need for a real power policy. D. Henderson. Ind Management 69:266-8 My '25
New methods cut power plant costs. C. E. Killinger. il Management & Adm 9:325-8 Ap '25
Operating men of forty years ago and of today. W. L. Abbott. Power 60:878-9 D 2 '24
Operating plan cuts industrial steam loss. H: M. Burke. il diag Power Pl Eng 29:424-7 Ap 15 '25
Organizing to reduce the cost of power. J. P. Jordan. Ind Management 68:336-40 D '24
Plant records tell where the coal dollars go; report of N.A.S.E. committee. Power Pl Eng 29:1051-3 O 15 '25
Power economies through load dispatching. H: A. Richardson. Ind Management 70:1-4 Jl '25
Power organization in the steel industry. B. Bannister and F. M. Van Deventer. Mech Eng 46:248-50 My '24; Discussion. 46:460-2 Ag '24
Power problems for the plant engineer. R. W. Leeper. Paper Tr J 80:55-7 Je 11 '25
Practical system for handling mechanical department job orders. H. F. Scott. il Power 62:160-2 Ag 4 '25
Ten commandments for power plants. R. B. Williams. Textile World 67:3717+ Je 6 '25
Wanted: a policy in industrial power plants. D. Henderson. plans Power Pl Eng 28:228-30 F 15 '24

POWER plants—Management—*Continued*
What is revealed by our power questionnaire. Ind Management 69:242-3 Ap '25

See also Boiler plants—Management; Coal handling

Piping

See Piping (power plants)

Records

Good power plant operation cost chart. Power 60:686 O 28 '24
Listing of the parts used in the power plant. Power 61:741; 62:219 My 12, Ag 11 '25
Power-plant efficiency chart. Power 61:950 Je 16 '25
Small plant records kept with simple apparatus. J. O. Benefiel. Power Pl Eng 29:354 Mr 15 '25

Statistics

What is revealed by our power questionnaire. Ind Management 69:177-8 Mr '25

Testing

Analysis of power-plant performance based on the second law of thermodynamics. W: L. DeBaufre. Mech Eng 47:426-8 sec 2 My '25
Attacking power losses in transmission and utilization. T. Croft. il diags Ind Management 68:349-56 D '24
Continuous power-plant testing. T. Maynz. charts Power 59:205-8, 324-5 F 5, 26 '24; Discussion. G: A. Chatel. 59:380-1 Mr '24
Economic operation of the power plant. J: D. Morgan. Power Pl Eng 29:285-7 Mr 1 '25
Guarantees for power plant; abstracts with discussion. J. N. Waite. il Electrician 92: 758-60 Je 20 '24; Elec R (Lond) 95:160-1 Jl 25 '24
Thermal efficiency of power stations. R. H. Parsons. Engineering 119:93-4, 153-4 Ja 23, F 6 '25; Discussion. A. C. Dunningham. 119:204 F 13 '25

See also Boilers—Testing; Hydroelectric plants—Testing; Power test codes; Steam plants—Testing

POWER rates. See Electric rates

POWER show. See National exposition of power and mechanical engineering

POWER test codes
Test code for centrifugal and rotary pumps. diags Mech Eng 47:214-18 Mr '25
Test code for condensing apparatus. Mech Eng 46:291-6 My '24
Test code for gas producers. Mech Eng 46: 910-15 D '24
Test code for reciprocating steam-driven displacement pumps. Mech Eng 47:135-8 F '25
Test code for refrigerating systems. Mech Eng 47:365-70 My '25; Same. Refrig Eng 11:365-71 Ap '25
Test code for solid fuels. diags Mech Eng 46: 558-62 S '24
Test code for steam turbines. diag Mech Eng 47:759-68 S '25

POWER transmission
Attacking power losses in transmission and utilization. T. Croft. il diags Ind Management 68:349-56 D '24
Bartlett type of angular transmission. G. M. Bartlett. il diags Mach 31:106-7 O '24; Abstract. Mech Eng 47:47-8 Ja '25
Control of mechanical power transmission. W: Staniar. il diags Ind Management 70:135-40, 218-22, 272-6, 338-43 S-D '25 (to be cont)
Different drives for refrigerating machines. T. Mitchell. il Power 62:287-9 Ag 25 '25
Elimination of waste in belting and transmission equipment. W. E. Nicholls. Am Mach 63:762 N 12 '25
Flexible drive for drill chucks and tap holders. diags Engineering 120:511 O 23 '25
Gearless variable-speed transmission. il diag Mach 30:980-1 Ag '24
Getriebekupplungen für niederdruck-wasserkraftwerke. il diags Elektrotech Zeit 45: 472-4 My 8 '24
How to determine horsepower of a shaft or clutch. Ind Eng 83:539-40 N '25
How variable speeds can be obtained. F. E. Gooding. il Ind Eng 82:519-24+ N '24
Maintenance; gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 33:790-4+; 34:56-60+ D '24-Ja '25
Mechanical devices in the path of power service. G. A. Van Brunt. il Ind Eng 82:61-8+ F '24
Modern maintenance of plant and equipment; the work of the millwright department. W: G. Ziegler. il diag Ind Management 66:347-53 D '23
Le problème des changements de vitesses; le transformateur Constantinesco. F. Collin. il diags Génie Civil 86:201-7 F 28 '25
Safeguarding power transmission equipment. D. C. Wright. Am Mach 62:535-7 Ap 2 '25
Safety code for mechanical power-transmission apparatus. diags U S Bur Labor Statistics Bul 364:1-30 '24
Something new in automobile drives. il Sci Am 130:12-13 Ja '24
Transmission by belting and shafting. G. A. Ungar. Power 60:1036 D 23 '24
Transmitting power by radio. J. Riley. il Radio N 7:766+ D '25
Trends and new practices in the use of mechanical equipment in the path of power service in industrial works. G. A. Van Brunt. il Ind Eng 83:55-64 F '25
Unusual power transmission by friction power-transmitting rolls or wheels. il diag Mach 30:678 My '24
Variable transmission. P. B. Ashworth. diags Automobile Eng 15:104-5 Ap '25; Discussion. 15:133, 165 My-Je '25
Variable transmission. G. Constantinesco. diags Automobile Eng 13:332-3, 396-400; 14: 10-14, 39-44, 76-81 N '23-Mr '24; Discussion. 13:393-5; 14:20-2, 47-9, 72-4, 112-14, 140-1 D '23-My '24
Wave-power transmission. E. A. Barclay-Smith. Philos Mag 6th ser 48:97-109 Jl '24

See also Belting; Belting, Steel; Cables; Chain gear; Compressed air; Electric distribution; Electric driving; Electric lines; Electric transmission; Gearing; Hydraulic transmission; Hydroelectric plants; Machinery; Pulleys; Rope driving; Shafting

Safety devices and measures

Safety code for power transmission apparatus. Nat Safety N 12:48 O '25
Way to reduce accident hazards on power transmission equipment. H. C. Peterson. Ind Eng 83:301 Je '25

Tables, calculations, etc.

Line-shafting and hangers. F. E. Gooding. il Ind Eng 82:178-82+ Ap '24

POWER waste
Attacking the utility sector of factory overhead. N. L. Sammis. Ind Management 70: 33-8 Jl '25
Industry wastes power. Power Pl Eng 29: 437 Ap 15 '25
What does the power that we needlessly waste cost us? C: A. Swartz. il Coal Age 26:47-9 Jl 10 '24

POWERS-Weightman-Rosengarten company
American chemical industries. Ind & Eng Chem 17:99-100 Ja '25

POYNTING'S law
Poynting-flux in a gradually varying di-electric. J. A. Wilcken. Philos Mag 6th ser 49: 140-3 Ja '25

POZZUOLANA
L'influence des pouzzolanes sur les ciments. O. Raulin. Génie Civil 85:37-9 Jl 12 '24

PRAGUE International management congress. See International management congress

PRAIRIE pipe line company
Prairie pipe line co. stock. Moody's Inv Serv 17:79 Mr 5 '25

PRASEODYMIUM
Concentration of praseodymium material and the preparation and properties of metallic praseodymium. J: Wierda and H. C. Kremers. Am Electrochem Soc Trans v 48 (preprint 7):65-74 S '25

PRATT and Whitney aircraft company
Pratt & Whitney to build airplane motors. Am Mach 63:214a Jl 30 '25; Aviation 19: 121 Ag 3 '25

PRECESSION
Steady precession of a body rolling on a table; with slight nutation superposed. G: Greenhill. Philos Mag 6th ser 47:94-110 Ja '24

PRECIOUS metals
See Gold; Jewelry—Manufacture; Platinum; Silver

PRECIOUS stones
Gem-stones and their distinctive characters. G: F: H. Smith, ed. 4th ed., rev. 314p Brentano's '23
Gems and gem materials. E: H: Kraus and E: F. Holden. 222p McGraw-Hill '25
Marketing of precious stones. G: F. Kunz. il Eng & Min J 119:361-70 F 28 '25
See also Diamonds

PRECIPITATES
Adsorption by precipitates. H. B. Weiser. J Phys Chem 28:232-44, 1253-64 Mr, D '24
Formation of periodic precipitates. N. R. Dhar and A. C. Chatterji. J Phys Chem 28: 41-50 Ja '24
Studies on the ignition of precipitates; the conversion of molybdenum sulfide to oxide, and the volatility of molybdenum trioxide. P. H. M.-P. Brinton and A. E. Stoppel. Am Chem Soc J 46:2454-7 N '24

PRECIPITATION
Conditions of precipitation, by electrolytes, of selenium hydrosol and other hydrosols. J. J. Doolan. J Phys Chem 29:178-87 F '25
Co-precipitation of radium and barium sulfates. H. A. Doerner and W: M. Hoskins. Am Chem Soc J 47:662-75 Mr '25
Electrometric studies of the precipitation of hydroxides. H. T: S. Britton. Chem Soc J 127:2110-59 S '25
Irregular series in the precipitation of albumin. A. W. Thomas and E. R. Norris. Am Chem Soc J 47:501-13 F '25
Mechanism of the precipitation of metals by hydrogen sulfide; a study of certain sulfur complexes of mercury. G. M. Smith and W. L. Semon. Am Chem Soc J 46:1325-43 Je '24
Precipitation laws. P. P. von Weimarn. il diags Chem R 2:217-42 [bibliog. p. 234-5] Jl '25
Studies of sparingly soluble salts, readily obtained from hot solutions of reacting substances. K. P. Chatterjee and N. R. Dhar. J Phys Chem 28:1009-28 O '24
Using refrigeration for removing salts from solution. H. J. Macintire. diag Chem & Met Eng 31:229-30 Ag 11 '24
Zonal precipitation of ores from a mixed solution. M. Watanabé. Econ Geol 19:497-503 S '24

PRECIPITATION, Electric. See Electric precipitation

PRECOOLING of fruits and vegetables. See Cooling of fruits and vegetables

PREFERRED numbers
Japanese adopt preferred numbers. Mech Eng 47:858 O '25
New activities of the A.E.S.C. preferred numbers committee. Mech Eng 47:222-3 Mr '25
Possibilities of preferred numbers in civil engineering. S. Wilmot. Eng & Contr (Bldgs) 63:407-11 F 25 '25
Preferred numbers. C. C. Stutz. Mech Eng 46: 429-30 Jl '24; Discussion. 46:495-7 Ag '24
Use of preferred numbers. F. J. Schlink. Soc Auto Eng J 16:140h-2 F '25

PREHEATERS. See Air heaters

PREMIER mill
Premier and other disintegrating mills and their applications in industry. F. J. C. China. diag Chem Age (Lond) 10:374-6 Ap 12 '24

PREMIUMS
Comparison of premium wage plans. R. F. Miller. Management & Adm 7:699-704 Je '24
Group premium for an automatic screw machine department. L. J. Houlihan. Management & Adm 10:281-4 N '25
Premium systems—their effect upon the company. D. E. Buyers. Gas Age 56:391-4 S 19 '25
Setting premium rates. P. J. Rees. Mach 31: 286-8 D '24
Suggestion for a premium system. C. G. Barth. diags Management & Adm 8:71-3 Jl '24

PREMIUMS (merchandizing)
Do premiums really pay? E. Whitmore. Sales Management 8:865+ Je 13 '25; Discussion. A. J. Leatherock. 9:87-8 Jl 25 '25
Premium plan increases sales five hundred percent. L. R. Fleming. Sales Management 7:1502+ S '24
When the premium system doesn't work properly. Ptr Ink 130:68 Ja 1 '25

PRENATAL influences
Prenatal care benefits cause of public health. W. E. Welz. Nation's Health 7:92-5+ F '25

PREPAREDNESS, Military. See United States—Defenses

PRESERVATION of engravings. See Engravings—Conservation and restoration

PRESERVATION of newspapers. See Newspapers—Preservation

PRESIDENTIAL campaigns
Business in presidential years. Comm & Fin Chr 118:2384 My 17 '24
Do presidential elections bring depression? R. Vance. Forbes 13:506-7 F 2 '24
Railway purchases in presidential election years. Ry Age 76:870-1 Ap 5 '24
See also Business depression

PRESIDENTS (United States)

Election
Maine election. Moody's Inv Serv 16:353-6 S 18 '24
Single six-year term for president. E. M. Phelps, comp. Ref Shelf 3:1-112 [bibliog. p. 15-22] no 3 '25

Interviewing
On the inside of high official circles. R. A. Lewis, jr. il Am Bankers Assn J 16:774-6+ Je '24

PRESS agents
Are press agents in for a long, hard winter? S. Hopper. Ptr Ink 129:25-6+ D 18 '24
Associated press is checkmating the space grabber. Ptr Ink 127:77-8+ Ap 10 '24
Free publicity lowers worth of advertising mediums. Ptr Ink 129:137-8 D 4 '24
Government by propaganda! Ptr Ink 126:111-12+ Ja 17 '24
How one publisher beats the press agent. D. N. Slep. Ptr Ink 126:106 Mr 6 '24
Parasite; a truth or two about so-called publicity. F. Russell. Ptr Ink 127:137-8+ Je 12 '24
Remember what Judge Corrigan said to Aaron Kosofsky; creating news for the press. Ptr Ink 131:97+ Ap 23 '25
Trade association advises against free publicity. Ptr Ink 127:53-4 Ap 3 '24
Trickery, fraud, hoax and bunk—the press agent's tools. J. True. Ptr Ink 130:101-4+ Mr 19 '25
Two press agents tell about the high cost of free publicity. J. True. Ptr Ink 130:41-2+ Mr 12 '25
See also Publicity

PRESS proof. See Proofreading—Press proof

PRESS tools. See Forming tools

PRESSED metal
Pressed metal engineering. D. P. Cook. il Mech Eng 46:123-8 Mr '24; Abstract. Iron Age 112:1579-80+ D 13 '23

PRESSED metal society, National. See National pressed metal society

PRESSED steel. See Steel, Pressed

PRESSES
Berry patented draw press. A. Eyles. il Sheet Metal Worker 15:882-3 D 5 '24
Chambersburg mounting and demounting wheel press. il Ry Mech Eng 98:564-5 S '24
Cincinnati all-steel press brake, series 70. il Am Mach 63:640 O 15 '25
Classification of power presses. F. R. Daniels. il Mach 30:617-18 Ap '24
Coining-press operation. A. R. Kelso. il diags Soc Auto Eng J 15:399-406 N '24; Same cond. Am Mach 61:685-8 O 30 '24; Abstract. Automotive Ind 51:755-6 O 30 '24; Discussion. Soc Auto Eng J 16:510-13 My '25
Design of inclinable power presses. P. A. Friedell. il diags Mach 29:376-9, 876-80; 30: 279-81, 442-5, 626-8 Ja, Jl, D '23, F, Ap '24
Development of power presses and dies. H: J. Hinde. il diags Iron Age 113:22-8 Ja 3 '24
Littell automatic magazine feed. il Iron Age 116:891-2 O 1 '25; Am Mach 63:567-8 O 1 '25; Mach 32:163 O '25
Max Ams automatic blanking and edging press. il Mach 30:898 Jl '24; Am Mach 61:37 Jl 3 '24
Niagara drop forge trimming press. il Iron Age 113:1010 Ap 3 '24
Perkins blanking presses. il Am Mach 62:904-5 Je 4 '25
Preventing power press breakage. Mach 31: 310 D '24
Standard pillar press heads and bases. H. C. Crawford. diags Am Mach 61:218 Ag 7 '24
Taylor & Fenn power-operated spring press no. 12. Am Mach 63:210 Jl 30 '25; Mach 31: 1008 Ag '25
Taylor & Fenn spring presses. il Mach 31:658 Ap '25; Am Mach 62:557 Ap 2 '25; Iron Age 115:1071 Ap 9 '25
Three-ton power arbor press by the General mfg. co. il Iron Age 114:196 Jl 24 '24
Toledo double-action press proves economical in production of cowls. il Automotive Ind 51:860 N 13 '24
V & O automatic bar-feed press. il Am Mach 61:748 N 6 '24

See also Dies; Forging machinery; Hydraulic presses; Printing presses; Punching machinery

Control

Controlling drawing-die pressure with aircushion cylinders in conjunction with automatic pressure control. J: Nelson. il diags Am Mach 62:773-5 My 14 '25

Ejection devices

Air knock-out for power press. J: E. Unger. diag Mach 31:50-1 S '24
Ejectors for punches and dies. H. M. Groff. diags Mach 30:608-9 Ap '24
Pneumatic work ejector used on punch presses. il Iron Age 116:687 S 10 '25

Manufacture

Time is best test of industrial plant design; Consolidated press company, Hastings, Mich. il plan Iron Tr R 76:1567-71 Je 18 '25

Safety devices and measures

Loshbough-Jordan non-repeat tripping mechanism. diag Mach 31:575 Mr '25; Iron Age 115:767 Mr 12 '25
Protecteur, système Mascret, pour presses à friction. H. Mamy. diag Génie Civil 84:141 F 9 '24
Punch presses and dies: their safe construction and operation. G: S. Thompson. Safety Eng 48:205-6 N '24
Revised specifications in power press code. Nat Safety N 10:40 N '24
Safety guard for power press. S. C. Hills. diags Mach 30:691 My '24
Safety impressions from a rotary press room. Nat Safety N 10:39-40 D '24

See also Punching machinery—Safety devices

PRESSOR anesthetics. See Anesthetics

PRESSURE
Apparatus for maintaining a constant pressure of gas. D: F. Smith. diag Ind & Eng Chem 16:22 Ja '24
Certain aspects of high-pressure research. P. W. Bridgman. J Fr Inst 200:147-60 Ag '25
Collapse of short thin tubes by external pressure. G. Cook. diag Philos Mag 6th ser 50:844-8 O '25
Comment j'ai réalisé la synthèse de l'ammoniaque par les hyperpressions. G. Claude. il diags Chimie & Ind 11:1055-66 Je '24
Dynamical illustration of the pressure of radiation. E. L. Nicolai. Philos Mag 6th ser 49:171-7 Ja '25
Effect of hydrogen pressure on the electromotive force of a hydrogen-calomel cell. W. R. Hainsworth, H. J. Rowley and D. A. MacInnes. diags Am Chem Soc J 46:1437-43 Je '24
Effect of pressure on overvoltage. S. J. Bircher and W: D. Harkins. Am Chem Soc J 45:2890-8 D '23
Effect of pressure on overvoltage. M. Knobel. Am Chem Soc J 46:2751-3 D '24
Influence of pressure on the freezing point of *p*-nitrotoluene, *m*-dinitrobenzene and guaiacol. N. A. Pushin. diag Chem Soc J 125: 2628-30 D '24
Measurement of pressure; abstract. J: L. Hodgson. Mech Eng 47:212-13 Mr '25
Pressure-volume-temperature relation for gaseous ethyl ether. J. A. Beattie. diags Am Chem Soc J 46:342-57 F '24
Pressures—how measured. C. L. Hubbard. diags Sanitary & Heat Eng 103:283-5, 364+ My 1, 29 '25
Properties of matter under high pressure. P. W. Bridgman. il diags Mech Eng 47:161-9 Mr '25; Discussion. S. Timoshenko. 47:513-15 Je '25
Saturation pressures of mercury up to 2000 kg. per square cm.; abstract. F. Bernhardt. J Fr Inst 200:273 Ag '25
Solubility; metallic solutions. J. H. Hildebrand, T. R. Hogness and N. W. Taylor. Am Chem Soc J 45:2828-36 D '23
Thermal conductivity and compressibility of several rocks under high pressures. P. W. Bridgman. bibliog diag Am J Sci 5th ser 7:81-102 F '24
Variation with pressure of the boiling points of naphthalene, benzophenone and anthracene. J. L. Finck and R. M. Wilhelm. Am Chem Soc J 47:1577-82 Je '25

See also Atmospheric pressure; Earth pressure; Strains and stresses; Vapor pressure; Wind pressure

PRESSURE, Atmospheric. See Atmospheric pressure

PRESSURE, Internal
Compressibility, internal pressure and change of atomic volume. T. W: Richards. diags J Fr Inst 198:1-25; Bibliography. 25-7 Jl '24
Internal pressure of solids. T. W. Richards. Am Chem Soc J 46:1419-36 Je '24
Internal pressures produced by chemical affinity. T. W. Richards. Am Chem Soc J 47: 731-42 Mr '25

PRESSURE gages
Bourdon gage. diags Power 59:578 Ap 8 '24
Catechism of central station gas engineering in the United States. Am Gas J 121:778-80, 1091-4 Ag 23, O 18 '24
Correction of Bourdon pressure gage. Power 60:549, 911; 61:743; 62:338 S 30, D 2 '24, My 12, S 1 '25
Firing oil by gage. A. E. Davie. diag Power 61:878-9 Je 2 '25
Getting a step ahead of the steam gage. C. F. Merriam. diag Power 59:689 Ap 29 '24

PRESSURE gages—*Continued*
New French oil pressure gage. diag Aviation 19:442 O 5 '25
Pressure-gauges, indicators, thermometers, pyrometers. J. Smith. 144p Constable & co., ltd., London '24
Protection of pressure gages. G. E. Booker. diags Power 60:425-66, 815 S 9, N 18 '24
Simple pressure-measuring device for use with corrosive gases. D: F. Smith and N. W. Taylor. diags Am Chem Soc J 46:1393-6 Je '24
Theory of a Bourdon tube pressure gage and an improvement in its mechanism. C. Sunatani. diag Mech Eng 47:128 F '25
Vacuum and pressure extension tables. 184p Pittsburgh meter co., Pittsburgh '23

See also Draft gages; Manometers; Telemeter

PRESSURE gages, Tire
Clymer manufactures new automatic tire gauge. Aviation 19:676 N 9 '25

PRESSURE regulators
Automatic pressure regulator. L: E. Dawson. diag Ind & Eng Chem 16:160-1 F '24
La distribution de la vapeur à pression constante; réglage automatique de la pression. il diags Génie Civil 87:271-3 S 26 '25
Gas pressure regulator. diag Am Gas J 122: 231-2 Mr 14 '25
New applications of the Mercon valve. diags Power 60:591 O 7 '24
New design of Craig furnace pressure regulator. il diag Power Pl Eng 28:574-5 My 15 '24
Practical notes on the use of pressure regulators and pressure-reducing valves. T. H. Ireland. diags Heat & Ven 21:49-53 F '24
Precise automatic pressure regulator. L: E. Dawson. diags J Phys Chem 29:1408-14 N '25
Wanted—an invention; gas pressure regulator for linotype machines. E: J. Cooney. Am Gas J 120:235+ Mr 15 '24

PRESSURE vessels
Automatic arc welding in tank construction. W. L. Warner. diags Am Mach 63:643-5, 689-92 O 22-29 '25
Material thickness of bumped heads. D. Gerber. Power 58:761 N 13 '23
Pressure vessels—fired and unfired. il Nat Safety N 11:35-43 My; 12:37-46 S '25
Rationale of safe welded, unfired pressure vessels. S. W. Miller. Refrig Eng 12:54-7 Ag '25
Report on code for unfired pressure vessels. diags Mech Eng 46:916-23 D '24
Rules for the construction of unfired pressure vessels in Holland. H. W. Los. Power 60: 375 S 2 '24
Status of adoption of A. S. M. E. locomotive, miniature, unfired pressure vessel and low pressure heating boiler codes by states and cities. Power 62:270 Ag 18 '25
Stresses in a shell under pressure. diags Power 58:864 N 27 '23
Trick tank head fails to obtain approval. diag Power 61:983 Je 23 '25

See also Air compressors; Boilers

PRESSWORK. See Printing, Practical—Presswork

PRETZELS
Evolution of the pretzel. J. C. Smith. il Am Gas J 121:813-14+ S 6 '24

PREVENTIVE medicine. See Medicine, Preventive

PRICE brothers and company
Rise of Price bros. & co. Paper 35:311-13 D 11 '24

PRICE City, Utah

Water supply

Water supply of Price City, Utah. J. W. Plant. il Eng & Contr (W W) 63:781-3 Ap 10 '25

PRICE cutting
Can a manufacturer head off a price war? Ptr Ink 127:10+ Je 5 '24
Canadian drug trade acts to stop price cutting. Ptr Ink 131:54 Je 25 '25
Cut prices, inside discounts and concessions. Sales Management 9:269-70+ S 5 '25
Frenzied merchandising. E. B. Weiss. Ptr Ink 132:65-6+ Ag 6 '25
How the dealer can be induced to maintain prices. E: M. Skinner. Ptr Ink 132:70+ S 17 '25
Real or paper profits? J: Reinartz. Dom Eng 110:17-19 Mr 21 '25
Ruinous price cutting. H. A. Call. Sanitary & Heat Eng 102:434-7; 103:6-8+, 108-9, 252-3 D 26 '24-Ja 9, F 20, Ap 17 '25
Salesman who cannot get the price. A. H. Deute. Ptr Ink M 8:29-30+ F '24
Saunders Norvell defines his stand on national advertising. Sales Management 6:379-80 Ja '24
Showing salesmen the bad ethics of price concessions. H. D. Arthurs. Ptr Ink M 11: 27-8+ Ag '25
What 27,080 druggists had to say about price cutting. Ptr Ink 133:162+ N 5 '25

See also Advertisements—Price appeal; Gasoline—Price cutting

PRICE fixing
Cost accounting in relation to industrial policy. S. L. Gill. Cassier's Ind Management 12:333-5, 369-71 Je-Jl '25
Fallacy of price-fixing, with particular reference to farm products. G: E. Roberts. Econ W n s 27:220-3 F 16 '24
Let competitors battle in the sunlight of known facts. G: T. Buckingham. Ptr Ink 127:157-8+ My 29 '24
Officers and members of American malleable castings association indicted. Iron Age 113: 1022 Ap 3 '24
Open-price-verbände. H. von Beckerath. Stahl & Eisen 44:1015-18 Ag 21 '24
Price-fixing combinations are still illegal. Ptr Ink 131:10+ Je 11 '25
Price-making and price stability. A. M. Sakolski. Harvard Business R 3:204-9 Ja '25
Test case on government interference in business; reports on price trends. J: F. Richter. Ptr Ink 125:17-18 D 27 '23
Trust movement in Great Britain; price control. Economist 98:134-5 Ja 26 '24
United typothetæ of America and the Federal trade commission. J. L. Engle. Paper Tr J 77:53-6 N 29 '23

See also Discount—Rates; Restraint of trade; Trusts, Industrial

PRICE fixing, Government
Artificial prices a menace to economic stability; the farmer's problem and the revised McNary-Haugen bill. B: M. Anderson, jr. 17p Chase Econ Bul 4:1-17 My '24; Same. Econ W n s 27:400-2, 439-41 Mr 22-29 '24
Brazil aids coffee producers. W: S. Culbertson. Ann Am Acad 112:60-5 Mr '24
Control of wheat prices. Index p 6-7 Ag '25
Fallacy of price-fixing. G. E. Roberts. Soc Auto Eng J 14:623-4 Je '24
Fallacy of price-fixing. G: E. Roberts. 29p Nat. city bank of N.Y. '24
Fallacy of price fixing; the McNary bill. G: E. Roberts. Nation's Business 12:14-15 Ap '24
History laughs at price-fixing. J. H. Barnes. Nation's Business 12:16-17 Ap '24
League of nations and price control. Comm & Fin Chr 121:14-15 Jl 4 '25

PRICE fixing, Resale
American tobacco company wins resale price verdict. Ptr Ink 133:129-30 N 5 '25
Colgate wins decision in bout with Federal trade commission. Sales Management 8:57 Ja 10 '25
Colgate's dealer policy upheld. Ptr Ink 129:97-8+ D 18 '24
Federal trade commission again wandering in price maintenance labyrinth; Q.R.S. music company. Ptr Ink 127:57-8 My 29 '24
Legal pitfalls in marketing products. G. H. Montague. Management & Adm 10:153-4 S '25; Same. Paper Tr J 81:59-60 N 19 '25

PRICE fixing, Resale—*Continued*
Price maintenance in England does not make business enormously easy. T: Russell. Ptr Ink 126:145-6 Mr 20 '24
Price standardization a public service. E. A. Whittier. Textile World 65:477-8 Ja 26 '24
Resale price. S: J. Moran. Dom Eng 109:22-4 D 27 '24
Why the manufacturer should be allowed to fix resale prices. Ptr Ink 125:69-70 N 29 '23

PRICE lists
Retail tire price lists coming back. India Rubber W 71:12-13 O '24
Some net-price-sheet testimony. Elec W 85: 174 Ja 17 '25

PRICE marks
Price mark inside the package. Ptr Ink 129: 122 N 20 '24

PRICE policies
Beware the dealer who misleads your salesmen. H. D. Arthurs. Ptr Ink 131:33-4+ Ap 9 '25
Cost accounting and price control. D. L. Moran. Cassier's Ind Management 12:445-7 S '25
Dangerous selling prices avoided by knowledge of economics of pricing and analysis of industry and its markets. W. I. Churchill. Management & Adm 10:79-82 Ag '25; Same. Paper Tr J 81:67-70 S 3 '25
Determining the selling price. L. M. Waite. Am Mach 60:495-7 Ap 3 '24
Fair basis for selling prices. C. A. Jettinger. Inland Ptr 72:753-4 F '24
Fancy profits, small profits, no profits, go to make average profits. G. A. Nichols. Ptr Ink 130:3-4+ Ja 22 '25
Fixing a selling price. E. Benn. Chem Age (Lond) 11:41 Jl 12 '24
How about the selling price? A. Bradbury. Ptr Ink M 11:55-6 Jl '25
How the model stock plan fits every business. E: A. Filene. System 45:637-9+ My '24
How to put the retailer right on advertised goods margin. G. A. Nichols. Ptr Ink 127: 3-4+ My 22 '24
Just what is a fair price? H. P. Willis. Nation's Business 13:34-7 O '25
Low prices cut down volume. Ptr Ink M 8:30+ Je '24
Overhead during low-volume production. A. F. Stock and J. M. Coffey. Paper Tr J 80: 61-4 My 14 '25
Pricing policy in relation to financial control. D. Brown. Management & Adm 7:195-8, 283-6, 417-22 F-Ap '24
Profits too low? cut the price! J. Johnson. Ptr Ink M 10:17-18+ Ap '25
Starts selling below cost, gains profit through volume; a view of Crosley radio's experience. G. A. Nichols. Ptr Ink M 8:39-40+ Je '24
Taking the guesswork out of business. W: R. Basset. Forbes 14:728-30 S 15 '24
Trapping new sales reservoirs by trading-up. W. B. Edwards. Ptr Ink M 8:22-4 My '24
Unwisdom of charging "all the traffic will bear." Ptr Ink 125:45-6+ N 22 '23
What buyers of merchandise know about its value. J. True. Ptr Ink 127:198+ My 15 '24
What shall the export price be? Ptr Ink 133: 151-2+ O 1 '25
Your price is wrong; some answers that have helped salesmen who have to meet price objections. R. Giles. Ptr Ink 128:130+ Jl 31 '24

See also Cost accounting; Discount, Trade; Retail trade—Comparative price policy

PRICE quoting
Liability of manufacturer who quotes prices on goods differing from plans and specifications submitted. Dom Eng 110:48+ Ja 3 '25

PRICE school of advertising and journalism. See Poor Richard club, Philadelphia—Price school of advertising and journalism

PRICES
Between the producer and the consumer; the spread of prices is the foundation of our civilization. R. Estcourt. Annalist 23:215-16+ F 11 '24
Commodities, inventories and investments. Moody's Inv Serv 17:349-52 O 22 '25
Commodity prices. Moody's Inv Serv 17:198 Je 11 '25
Commodity prices advance further in 1924. Dun's R 33:11 Ja 10 '25
Commodity prices and freight rates. Ry Age 77:970-1 N 29 '24
Commodity prices highest since late 1920. Bradstreet's 53:513 Ag 8 '25
Distribution of consumer's money spent for certain commodities. Monthly Labor R 21: 47-53 Jl '25
Factors affecting the general price level and the probable future price level. J. H. Hollander. Elec Ry J 63:597 Ap 12 '24
Factors conditioning marketing management. L. S. Lyons and N. W. Barnes. charts Univ J of Business 3:322-7 S '25
Fifth successive monthly rise in prices. Bradstreet's 52:781 D 6 '24
Future of commodity prices. Moody's Inv Serv 16:225-8 My 29 '24
Future of general commodity prices. G: E. Roberts. Iron Age 113:501-2+ F 14 '24
Future of prices at home and abroad. W: L. Ransom and P. T: Moon, eds. 205p Academy of political science, Columbia univ., New York '25
Gold production may raise the price level. W. I. King. Annalist 26:243-4 Ag 28 '25
Grain and provision markets. Published in weekly numbers of Economic world
Industrial system and the price system. F: C. Mills. Management & Adm 7:337-41 Mr '24
Interrelation and distribution of prices and their incidence upon price stabilization. N. Crump. Roy Statis Soc J 87:167-206; Discussion. 207-19 Mr '24
Law of market areas explained. F. A. Fetter. Iron Tr R 76:817-19 Mr 26 '25
Lessons for consumers in the causes of high prices. A. R. Marsh. Econ W n s 27:111-12 Ja 26 '24
New index of the general price level from 1875. C. Snyder. Am Statis Assn J 19:189-95 Je '24
Our unstable dollar and the so-called business cycle. I. Fisher. charts Am Statis Assn J 20:179-202 Je '25
Price indexes again sag in midwinter. Bradstreet's 52:157 Mr 8 '24
Price-making and price stability. A. M. Sakolski. Harvard Business R 3:204-9 Ja '25
Price movements in principal countries. Published in monthly numbers of Federal reserve bulletin
Price problem. Nat City Bank p 62-4 Ap '25
Price, profit and return on invested capital. H. D. Force. J Account 39:27-33 Ja '25; Same. Paper Tr J 80:57-9 F 19 '25
Prices and cost of living. Published in monthly numbers of International labour review and in Monthly labor review
Prices decline for sixth successive time. Bradstreet's 52:365 Je 7 '24
Prices in the United States and England. Nat City Bank p 45-6 Mr '25; Same. Econ W n s 29:478-9 Ap 4 '25
Recent world-wide advance of commodity prices. Econ W n s 30:159 Ag 1 '25
Some price-determining factors in the iron industry. O. W. Blackett. R Econ Statis 7: 198-207 Jl '25
Supply and price interactions in farm and city products. H. A. Wallace. Ann Am Acad 117:243-7 Ja '25
Things to tell your men. G: E. Roberts. Nation's Business 13:54+ Ja '25
Wage rates and retail prices in various cities. Published in monthly numbers of International labour review
Wage rates and retail prices in various cities; discussion of statistical methods. Int Labour R 10:869-71; 11:103-7, 561-9; 12:96-103 N '24, Ja, Ap, Jl '25

PRICES—*Continued*
What's the matter with retail business? prices need sober study. C. R. Ferrall. Ptr Ink 126:61-2+ Mr 20 '24

See also Advertisements—Price quoting; Cost of living; Farm produce—Marketing; Index numbers; Money; Price cutting; Price fixing; Price policies; Printing trade—Rates; Retail trade—Comparative price policy; Wages; *also* subdivision Prices under names of commodities, e.g. Building materials; Chemicals; Coal; Dry goods; Iron; Steel

China

Price changes in China. J. L. Buck. Am Statis Assn J 20:238-41 Je '25

Denmark

Retail prices in Denmark, October, 1923, and October, 1924. Monthly Labor R 20:58-9 Ja '25

Egypt

Retail prices in Egypt, June, 1924 and 1925. Monthly Labor R 21:740 O '25

Germany

Teuerung und preissenkungsaktion. M. Kubierschky. Elektrotech Zeit 46:1609-10 O 22 '25

Great Britain

Adjustment of the British price level to the gold standard. A. R. Marsh. Annalist 26:83-4 Jl 24 '25
Britain's bank rate as a price stabilizer. W. F. Collins. Annalist 26:179+ Ag 14 '25
Commercial times; weekly price current. Published in weekly numbers of Economist

Philippine Islands

Wholesale prices of staple products and retail prices of food in Manila, 1918-1922. Monthly Labor R 18:65-6 Ja '24

Scandinavia

Retail prices in Stockholm, Christiania, and Copenhagen, July, 1914, 1922, and 1923, and January, 1923. Monthly Labor R 17:1091-2 N '23

United States

Commodity markets again more stable. Dun's R 32:12 Ja 12 '24
Commodity prices. Index p 8-9 Ja '24
Commodity prices. Moody's Inv Serv 17:270-1 Ag 13 '25
Federal reserve system. Nat City Bank p 8-13 N '24; Same. Econ W n s 28:690-3 N 15 '24
Fifty years of the varying value of gold. C. Snyder. Am Bankers Assn J 16:704-6 My '24
Government price indexes rise. Bradstreet's 53:545 Ag 22 '25
Government prices go lower. Bradstreet's 53: 337-8 My 23 '25
Restoration of equilibrium between agricultural and other prices. Econ W n s 30:189-90 Ag 8 '25; Same. Nat City Bank p 121-3 Ag '25
Retail prices, 1913 to December, 1923. U S Bur Labor Statistics Bul 366:1-186 '25

PRICES, Wholesale
Aggregative index of wholesale prices 1859-66. J. G. Smith and D. E. Montgomery. charts R Econ Statis 7:38-43 Ja '25
Commodity price index lower. Dun's R 33:9 Mr 7 '25
Comparison of present wholesale prices with peak and pre-war. Survey of Cur Business 32:4 Ap '24
Increase in wholesale prices in January, 1925. Comm & Fin Chr 120:881 F 21 '25 [continued monthly]
Price movements in principal countries. Published in monthly numbers of Federal reserve bulletin
Prices for a century and a quarter; wholesale commodity price indexes from 1801 to 1924 inclusive. Iron Age 116:683 S 10 '25
Wholesale price comparisons. Survey of Cur Business 29:5 Ja '24
Wholesale prices, 1890 to 1923. U S Bur Labor Statistics Bul 367:1-270 '25
Wholesale prices, 1890-1924. U S Bur Labor Statistics Bul 390:1-252 '25
Wholesale prices in the United States and foreign countries, 1913 to September, 1923. Monthly Labor R 17:1302-3 D '23
Wholesale prices of commodities in 1923. A. Sauerbeck. Roy Statis Soc J 87:256-77 Mr '24
Wholesale prices of commodities in 1924. Roy Statis Soc J 88:260-78 Mr '25

Great Britain

Wholesale prices of commodities—selected dates, 1913-1922; and monthly, 1923. Economist 98:367+ F 16 '24

Japan

Japanese index of wholesale prices in 1919 and 1920. Fed Res Bul 10:22-4 Ja '24

United States

Average wholesale prices of commodities, October to December 1923, and for year 1923. Monthly Labor R 18:286-96 F '24
Chart showing prices compared with those of 1913. S. G. Koon. Iron Age 113:1870-1 Je 26 '24
Comparative wholesale prices of 106 commodities. Bradstreet's 52:782 D 6 '24 [continued monthly]
Price indexes in the United States. G. V. Cox. Univ J of Business 2:263-87 Je '24
Prices of iron and steel and other products. S. G. Koon. Iron Age 113:108+ Ja 3 '24
Prices of iron and steel and other products. S. G. Koon. Iron Age 115:46-7; 116:8-10 Ja 1, Jl 2 '25
Purchasing power of the dollar, 1920 to 1924, as computed by the U.S. Bureau of labor statistics. Monthly Labor R 19:285-90 Ag '24
Purchasing power of the dollar (wholesale prices), 1920-1925. Monthly Labor R 21:307-9 Ag '25
Wholesale price comparisons—maximum price compared to price in recent months. Published in monthly numbers of Survey of current business
Wholesale price table, 1913-1923. Comm M 5:16-17 Ja '24
Wholesale prices, 1801-1840. A. H. Hansen. Am Statis Assn J 19:377-80 S '24
Wholesale prices in the United States, 1866-91. J. L. Snider. chart R Econ Statis 6:93-118 Ap '24
Wholesale prices of commodities, July to September, 1923. Monthly Labor R 17:1068-76 N '23
Wholesale quotations of commodities. Published in weekly numbers of Dun's review

PRICING. See Price policies

PRIESTLEY, Joseph, 1733-1804
History and progress of metallurgical science. R. Hadfield. por Engineer 136:510-11 N 9 '23

PRIME movers. See Gas and oil engines; Steam engines; Steam turbines; Turbines

PRIMULINE
Primuline and vat colors for the production of fast khaki shades. J. S. Unterweiser. Am Dyestuff Rep 13:160-1; Discussion. 161-3 Mr 10 '24

PRINCETON inn, Princeton, New Jersey
Princeton inn, Princeton, N.J. il plans Arch Forum 42:69-74, pl 15-16 F '25

PRINTERS
Arbitration in the newspaper industry, Milwaukee. Monthly Labor R 18:99-110 Ja '24
Bohemian-Slavonic typographical union—New York city; labor agreement. Monthly Labor R 20:840 Ap '25
Craftsman's best asset. Inland Ptr 74:49-52 O '24
Criticism of recent wage agreement of printers by members of typographical union no. 6. Comm & Fin Chr 118:2380-1 My 17 '24

PRINTERS—*Continued*
Economic condition of the printing industry in New York city. D: R. Craig. 76p New York employing printers' assn., New York '25
Final settlement of outlaw strike of New York pressmen—new agreement signed. Comm & Fin Chr 119:398-9 Jl 26 '24
Future of the printing industry. L. E. Dennison. Inland Ptr 76:231-2 N '25
In three years; a story of a woman and the printers of Chiapolis. R. T. Porte. Inland Ptr 75:230-2, 436-8, 738-40, 910-12; 76:76-8, 234-6, 400-2 My-Je, Ag-D '25 (to be cont)
Other fellow's job. F. H. Lincoln. Inland Ptr 76:49-51 O '25
Philosophy of a sentimental printer. F. Birren. Inland Ptr 75:553-5 Jl '25
Printers—San Francisco. Monthly Labor R 19:843-5 O '24
Printing-book and job; agreements in Boston and New York. Monthly Labor R 18:584-6 Mr '24
Printing industry, Hartford, Conn.; labor agreement. Monthly Labor R 21:757-8 O '25
Printing industry (web pressmen), New York city; new agreement. Monthly Labor R 17: 1351-3 D '23
Printing pressmen, New York city, agreement. Monthly Labor R 19:1299-1303 D '24
Survey of hygienic conditions in the printing trades. S. Kjaer. il U S Bur Labor Statistics Bul 392:1-229 '25; Abstract. Monthly Labor R 21:1086-7 N '25
Typographical union, Tacoma, Wash., agreement. Monthly Labor R 20:343-4 F '25
Wage scales of employees in the printing trades, December 15, 1924. Monthly Labor R 20:319-23 F '25
What is a general advertising campaign? dispute between New York newspaper publishers and typographical union. Ptr Ink 128: 64+ S 4 '24
Why good country printers are scarce. Inland Ptr 75:936 S '25

See also Electrotypers; *also* International association of printing house craftsmen; International typographical union; New York typographical union; United typothetæ of America; *also* names of printers, e.g. Dennis, W: E.; Dietz, August; De Vinne, Theodore Low; Franklin, Benjamin; Guillard, Charlotte; Jarrold family; Wilson, Charles A.

PRINTERS' ink (periodical)
An Englishman's view of advertising journalism. Ptr Ink 133:143-5 O 29 '25

PRINTERS' Ink model statute
Barrier against dishonest advertising. Ptr Ink 127:93-4+; Bibliography, 98+ Je 5 '24
Drive to enact "Printers' Ink" model statute in Illinois. Ptr Ink 129:122+ D 11 '24
Upholds constitutionality of Printers' Ink model statute. Ptr Ink 131:156 Ap 16 '25

PRINTERS' labels
Printer's label—and how to use it. R. Highet. il Ptg Art 43:230-5 My '24

PRINTERS' rolls. See Rollers, Printers'

PRINTING
Direct or glue process. E. Bassist. Inland Ptr 74:541-2 Ja '25
Field museum has well equipped printing plant. il Inland Ptr 72:474-5 D '23
How printing standardized our language. J. B. Arnold. Inland Ptr 73:878-80 S '24
In the day's work. D. B. Updike. 69p Harvard univ. press, Cambridge '24
Is printing the father of genius? H: Warner. Inland Ptr 75:915 S '25
Musings on a line of type. J. B. Arnold. Inland Ptr 73:385-7 Je '24
New process. Inland Ptr 75:398 Je '25
Power of the printed word. E. E. Calkins. Ptg Art 44:27-31 S '24
Printing around the world. C: Francis. Inland Ptr 73:87-8 Ap '24
Printing, its history, practice, and progress. H. A. Maddox. 151p Pitman '23
Taste and typographic art. D. F. Young. Inland Ptr 72:759-60 F '24
What is good typography? L. A. Braverman. Inland Ptr 74:255-6 N '24

See also Advertisements—Typography; Borders (printing); Calendars; Calico printing; Capitalization; Christmas printing; Color printing; Compound words; Engravings—Printing; Factories—Printing; Ink; Letterheads; Linotype; Lithography; Paper; Photoengraving; Photography; Photogravure; Photolithography, Posters; Printers; Printing offices; Printing presses; Printing trade; Proofreading; Rotogravure; Textile printing; Type and type founding; Typesetting; *also* Kelmscott press

Competitions
Competition for quality. J. L. Frazier. il Inland Ptr 74:393-5 D '24

Design
Architecture as a source of inspiration for the printer. J: J. Fisher. diags Inland Ptr 76:245-6 N '25
Dynamic typography. J. C. Hertzog. Inland Ptr 74:390-2 D '24
Typography and the Greek vase. J. C. Hertzog. il diag Inland Ptr 75:916-17 S '25
Typography and the Parthenon. J. C. Hertzog. il Inland Ptr 76:243-4 N '25

Dictionaries
Dictionary of printing terms. F. Pearson and others. 283p Porte pub. co., Salt Lake City '24

Exhibitions
The fifty books of nineteen twenty-five. M. Heir. Inland Ptr 76:282 N '25

History
Brief survey of printing history and practice. S. Morison and H. Jackson. 87p Knopf '23
Certain master printers. H: L: Bullen. Inland Ptr 73:393-4 Je '24
Charlotte Guillard, printer of the renaissance. B. L. Becker. il Inland Ptr 72:438-40 D '23
How business learned to talk. M. Heir. il Inland Ptr 74:579-80 Ja '25
Invention of printing in China and its spread westward. T: F. Carter. 282p [bibliog. p. 263-73] Columbia univ. press, New York '25
Pentecost of the line of type. J. B. Arnold. Inland Ptr 73:553-5 Jl '24
Twenty-five years of progress in printing. C: H. Cochrane. Inland Ptr 75:273-5 My '25
What civilization owes to printing. J. B. Arnold. Inland Ptr 72:764-6 F '24

See also Wolfe, Reynold

Private presses
See Strawberry Hill press

Rates
See Printing trade—Rates

Specimens
Bold-face typography. Inland Ptr 75:744a-h Ag '25
Capitalizing on specimens. L. C. Powers. Inland Ptr 72:950 Mr '24
Charles A. Wilson, typographer; with examples of his work. J. B. Gray. Inland Ptr 74:720-h F '25
Collection of pages from books and circulars designed and printed at the Harvard university press, Randall Hall, Cambridge, Massachusetts. Ptg Art 42:351-6 D '23
Example of direct-mail advertising and other pieces. Inland Ptr 73:408a-h Je '24
Exhibit from the U.T.A. school of printing, Indianapolis. Inland Ptr 73:896a-h S '24
Four centuries of fine printing. S. Morison. 243p E. Benn, ltd., London '24
Modern fine printing. S. Morison. 152p E. Benn, ltd., London '25
Sign painter's invoices. J. L. Frazier. Inland Ptr 76:73-4 O '25

PRINTING—Specimens—*Continued*
Some examples from the work shop of August Dietz. Inland Ptr 74:232a-d N '24
Some examples of British typography. Inland Ptr 72:464a-h D '23
Specimen book and catalogue—dedicated to the typographic art. 1148p American type founders company, Jersey City '23
Specimens. J. L. Frazier. See monthly numbers of Inland printer
Specimens of European typography. Inland Ptr 75:576a-h Jl '25
Type, with measurements classified by series, book and job, advertising figures, borders, rules, initials, special characters, etc. 298p Typographic service co., Los Angeles, Cal. '25
Typographic specimens designed from geometric motifs. J. C. Hertzog. Inland Ptr 74:392a-d D '24

See also Business cards

Study and teaching

See Printing, Practical—Study and teaching

PRINTING, Offset
Future of letterpress printing. W: Gamble. Inland Ptr 74:757 F '25
Innovation in foreign offset presses. il Inland Ptr 75:946-7 S '25
Limits of offset lithography. Inland Ptr 75:774-5 Ag '25
Making plates for the typo-offset machine. J. Goodman. Inland Ptr 76:93-4 O '25
Miehle offset press. il Inland Ptr 76:94-5 O '25
Notes on offset printing. S. H. Horgan. See monthly numbers of Inland printer
Photoengraving and photo-offset lithography. W: Gamble. Inland Ptr 75:93-5, 261-2 Ap-My '25
Photo-lithography and offset printing. F. O. Sullivan. Inland Ptr 74:539-40, 753-4, 905-6; 75:89-90, 257-8, 393-4, 593-4, 769-71; 76:89-91, 265-7, 433-6 Ja-Ag, O-D '25 (to be cont)
Relief plates, rotagravure or offset? Inland Ptr 74:551-2 Ja '25
Retouching for offset lithography in colors. E. Bassist. Inland Ptr 74:756, 907-8; 75:91-2 F-Ap '25
Rubber offset printing blankets. il diag India Rubber W 70:439-40 Ap '24
What process shall we use? W: A. Kittredge. Ptg Art 42:333-5 D '23

PRINTING, Practical
Appropriate typographical style in public health printing. D. C. McMurtrie. Nation's Health 6:530-1+ Ag '24
Direct-mail advertisers aided by world's largest printer. G: H. Carter. Ptr Ink 128: 77-8+ Ag 28 '24
Editing copy, not proofs. W. J. Rohr. Inland Ptr 75:100 Ap '25
Essentials of printing. F. S. Henry. 187p Wiley '24
How to cut the factory printing bill. A. J. Jacquot, jr. il Factory 34:269-71, 430-1+ F-Mr '25; Same (pt. 1). Inland Ptr 74:919-21 Mr '25
Preparing manuscript. A. Pemberton. Inland Ptr 72:927-8 Mr '24
Printing—a study in purchasing. W. E. Hale. Burroughs Clearing House 10:22-4 N '25
Private printing plants. W. W. Fulmer. Ry R 77:99-100 Jl 18 '25
Textbook of printing occupations. C. W. Hague. 257p Bruce pub. co., Milwaukee, Wis. '23
Waste and the gas company's printing bill. R. A. Pettengill. il Am Gas Assn Accounting sec v 6:491-501 '24; Excerpts. Am Gas J 121:1069-72 O 17 '24
What is good printing? G. Bradfield. Inland Ptr 74:703-4 F '25
What process shall we use? W: A. Kittredge. Ptg Art 42:229-31, 333-5, 447-52 N '23-Ja '24

See also Advertisements—Typography; Color printing; Dummies (printing); Engraving; Ink; Linotype; Monotype; Photoengraving; Photogravure; Photomechanical processes; Printing offices; Printing presses; Printing trade; Proofreading; Stereotyping; Type and type founding; Typesetting; Wood engravings; Word division

Composition

See Typesetting

Estimates
Committing suicide with a lead pencil. A. W. Little. Ptd Salesmanship 46:41-4 S '25
Concerning accurate estimates. il Inland Ptr 72:485 D '23
Cost and method. M. Heir. Published in monthly numbers of Inland printer
How to estimate printing. M. Heir. Inland Ptr 74:258-9, 409-11, 581-4, 737-9, 879-82; 75: 69-72, 237-40, 401-4, 583-6, 741-2, 897-9; 76: 61-3, 237-9, 405-6, 569-70 N '24-Ja '26
Speaking of estimates. J. B. Gray. Inland Ptr 75:721-2 Ag '25

See also Printing, Practical—Tables, calculations, etc.

Leaders
Use of vertical leaders. J. P. Richard. Inland Ptr 74:710 F '25

Presswork
Can press makeready be eliminated? R. F. Salade. Inland Ptr 74:533-5 Ja '25
How to use metallic inks. Inland Ptr 76:71 O '25
Pressroom. E. St John. Published in monthly numbers of Inland printer
Preventing offset in printing. R. F. Salade. Inland Ptr 75:605-6 Jl '25
Some practical hints on presswork. E. St-John. Inland Ptr 72:443-4, 615-16, 804-5, 951-2; 73:61-2, 254, 395, 570, 741-2, 911; 74:90-1, 225, 383, 716, 924-5; 75:99, 276, 435, 752-3 D '23-D '24, F-Je, Ag '25
Suggestions for platen pressmen. J. B. Hamlin. Inland Ptr 72:938 Mr '24
Why paper breaks in printing. P: J. Massey. Paper 34:657-61 Jl 31 '24

See also Printing presses

Records
Thumbtacking the pesky details; a system of recording manufacturing items and costs. J. C. McCarthy. Ptg Art 44:361-7 D '24

Spacing
Spacing of advertisements. F: N. Phillips. Ptg Art 42:548-55 F '24
Stuart hits on all six. J. L. Frazier. Inland Ptr 75:73-4 Ap '25

Study and teaching
Apprentice training at the Hudson guild. A. J. Fehrenbach. Inland Ptr 74:718-20 F '25
Apprentices trained by the government. F. M. Huddlestun. il Inland Ptr 75:266-8 My '25
Apprenticeship course for printing apprentices. J: F. Locke. Printing trade school of the Cincinnati public schools, Cincinnati '23
Education of printing apprentices in Cincinnati. J. M. Thomssen. Inland Ptr 74:248-9 N '24
How a boys' club grew into school for printers, Hudson guild school. C: Stelzle. il Forbes 13:577+ F 16 '24
Printing and typography for beginners, using the self-study method. A. Levitas. 196p McGraw-Hill '24
Teaching printing in vocational schools. H. D. Salins. Inland Ptr 74:55-6 O '24
Unit lesson sheets in printing for school and shop. C: W. Kellogg. 142p Grand Rapids vocational school, Grand Rapids, Mich. '23

See also London school of printing

Style
Appearance, the test of style. E: N. Teall. Inland Ptr 74:712-13 F '25
Plea for uniformity in style. M. Heir. Inland Ptr 75:385, 731-2 Je, Ag '25
Some angles on style. A. J. Fehrenbach. Inland Ptr 76:229-30 N '25

PRINTING, Practical—Style—*Continued*
Uniformity in style will cut enormous waste. W. N. P. Reed. Inland Ptr 76:220-1 N '25

Style manuals

Again, the style sheet. E: N. Teall. Inland Ptr 72:762-3 F '24
Manual of style. 8th ed. 391p Univ. of Chicago press '25

Tables, calculations, etc.

Applied print shop mathematics. C. W. Hague. 31p Bruce pub. co., Milwaukee, Wis. '25
Fitting copy to space, scientifically, in any size or face of type. A. R. Hopper. Inland Ptr 72:620-2, 795-6 Ja-F '24
Print shop arithmetic. J. A. Ginsbach. 52p Manual arts press '23

PRINTING, Public
Government printed envelopes assailed. M. Heir. Inland Ptr 74:749-50 F '25

See also United States—Government printing office

PRINTING house craftsmen, International association of. See International association of printing house craftsmen

PRINTING machinery
What the printer owes to the inventor. C: H Cochrane. il Inland Ptr 75:938-40 S '25
Where is another great inventor? O. H. Kepley. il Inland Ptr 73:427-8 Je '24

See also Linotype; Monotype; Printing presses; Rollers, Printers'; Textile printing machines; Typesetting machines

Exhibitions

Printing and allied trades exhibition. Engineering 119:643-4 My 22 '25

PRINTING offices
Applied idealism in the graphic arts. W. H. Mayes. il Inland Ptr 72:481-2 D '23
Complete super span printing building. il Inland Ptr 72:966-7 Mr '24
Design of the modern printing building. A. S. Alschuler. il Inland Ptr 72:637-40 Ja '24
Dutch printing office of the early seventeenth century; oil painting by Peter Grebber. H: L. Bullen. il Inland Ptr 74:57 O '24
An hour in the factory of the Latham litho & printing company, Long Island City, N. Y. il Am Arch 126:139-41, pl 62-4 Ag 13 '24
New Judd & Detweiler facilities. C. M. Litteljohn. il Inland Ptr 73:439-40 Je '24
Picture-trips through the new plants. il Factory 35:212-13 Ag '25
Where type has found a tongue; workshop of August Dietz, Richmond, Va. W. Hurt. Inland Ptr 74:229-32 N '24

See also United States—Government printing office

Electric equipment

Electricity in printing; exhibits at the seventh International printing, stationery and allied trades exhibition. il Electrician 94:598+ My 22 '25

Equipment

Gas in the newspaper plant. H. S. Christman. il Am Gas J 121:682+ Jl 26 '24
Printers' exhibition; use of gas in the trade. il Gas J (Lond) 170:736-7 Je 10 '25
Some uses for gas in printing works. J. Ennals. Gas J (Lond) sup 4:135-6 Je 24 '25
Use of town gas in the printing trade. E. W. Smith. Gas J (Lond) 165:559-60 Mr 5 '24

See also Paper handling; Printing machinery

Lighting

Better lighting means better work. D. G. Baird. il Inland Ptr 73:892-4 S '24
General lighting helps to pave the way to lower costs. R. M. Eastman. il Factory 35:304+ Ag '25
Precautions that give us better lighting. R. M. Eastman. il Factory 35:426+ S '25
Some problems in the lighting of printing works. L. Gaster. Illum Engr 16:134-40; Discussion. 140-7 Je '23

Maintenance and repair

Solving the maintenance problem. H. L. Wheeler. Inland Ptr 75:723-4 Ag '25

Management

Filing system for the proofroom. H. E. Brenneman. Inland Ptr 74:375 D '24
Five elements in making a profit. B. A. Franklin. Paper Tr J 81:55-8 Jl 9 '25
How proper management will promote efficiency. M. Heir. Inland Ptr 75:65-8 Ap '25
How to cut down the overhead. H. L. Wheeler. Inland Ptr 76:53-5 O '25
They haven't time to quarrel! M. Droke. Inland Ptr 72:431-2 D '23
Training customers to send in their orders correctly. M. J. Tintera. Inland Ptr 73:232 My '24
When paper salesmen talk about printers. F. H. Williams. Inland Ptr 72:646 Ja '24
Why customers patronize certain print shops. F. H. Williams. Inland Ptr 75:576 Jl '25

Safety devices and measures

Health conditions in the printing industry. Inland Ptr 76:279-80 N '25

PRINTING on rubber
Rotogravure printing on rubber. India Rubber W 70:646-7 Jl '24

PRINTING on wood
Box-making and wood-printing machines. il Engineering 118:544, 545 O 17 '24

PRINTING plates. See Plate printing

PRINTING presses
Cause of defects in cylinder presses. H. L. Wheeler. Inland Ptr 73:387-9 Je '24
Electricity in the modern newspaper pressroom; the San Francisco chronicle. J Elec 54:330, 331 My 1 '25
Individual motor drive for presses. H. L. Wheeler. Inland Ptr 75:617 Jl '25
Innovation in foreign offset presses. il Inland Ptr 75:946-7 S '25
Miehle offset press. il Inland Ptr 76:94-5 O '25
Progress in newspaper making. C: W. Geiger. il Inland Ptr 75:780-1 Ag '25
Slur on cylinder presses. Inland Ptr 76:264 N '25
Some practical hints on presswork. E. St-John. Inland Ptr 73:395 Je '24
Two printing-press shop fixtures. H: F. Crawford. il Am Mach 62:72-3 Ja 8 '25

See also Printing, Offset; Printing, Practical—Presswork; Rollers, Printers'

Manufacture

Cylinders for printing presses. F. H. Colvin. il Am Mach 63:351-2 Ag 27 '25
Gear production in a modern printing-press factory. H. H. Edge. il Am Mach 62:997-9 Je 25 '25
Milling and boring fixtures for printing presses. R. E. Marks. il Am Mach 63:547 O 1 '25
Modern manufacturing plant; American type founders company's automatic printing press factory. J: F. Fallon. il Management & Adm 10:119-24 S '25
Modern methods of building printing presses. F. H. Colvin. il Am Mach 62:639-41 Ap 23 '25
Modern shop planned for building automatic printing presses. W: M. Kelly. il plan Am Mach 62:281-4 F 12 '25

PRINTING telegraph. See Telegraph, Printing

PRINTING trade
Better printing—its advantages to the printer and to the consumer. H. Hillman. Inland Ptr 74:209-11 N '24
Does it pay to educate customers? D. E. Stetson. Ptg Art 43:541-6 Ag '24
Evil of easy terms or long-time payments. C: H. Cochrane. Inland Ptr 75:760-1 Ag '25
Facing the situation; competition of specialty houses. R. T. Patten. Inland Ptr 75:389-91 Je '25

PRINTING trade—*Continued*
For heaven's sake get out and sell. L. D. MacDonnold. Inland Ptr 75:49-50 Ap '25
Is convict labor a real menace to the printing industry? M. Heir. Inland Ptr 73:883-4 S '24
Market-analyzing the printer. L. R. Coleman. Ptg Art 43:141-4 Ap '24
Most for our money. N. M. Andersen. Inland Ptr 72:597-9 Ja '24
Neglected field for the printer; offering advertising opportunities to local stores in large cities. C: H. Cochrane. Inland Ptr 73:223-4 My '24
Newcomers are promising prospects for printers. F. V. Faulhaber. Ptg Art 43:538-40 Ag '24
Outsider shows a printer how to build business. F. H. Williams. Ptg Art 42:456-60 Ja '24
Printer-merchant. J. D. Claitor. Inland Ptr 72:428-30 D '23
Put the paper man on your pay roll. L. D. MacDonnold. Inland Ptr 75:220-1 My '25
Should the printer adopt advertising's unloved stepchild? L. K. Davis. Ptg Art 43: 49-55, 152-8, 254-60 Mr-My '24
Survey of hygienic conditions in the printing trades. S. Kjaer. il U S Bur Labor Statistics Bul 392:1-229 '25
Ten plans for increasing business. C. T. Hubbard. Inland Ptr 73:55-6 Ap '24
This printing business. T. J. Goe. Ptd Salesmanship 46:138-40 O '25
What can printing do for business? Inland Ptr 75:405-7 Je '25
What can printing do for business? C: A. Bates. Ptd Salesmanship 46:51-3 S '25
Your price is too high! J. B. Gray. Inland Ptr 73:873-4 S '24

See also Printers; Printing offices; *also* International association of printing house craftsmen; United typothetæ of America

Accounting

Cost and method. M. Heir. Published in monthly numbers of Inland printer
Do service departments pay? A. J. Peel. Inland Ptr 75:894-6 S '25
Hiding and seeking costs. S: Lion. Inland Ptr 72:756-8 F '24
How to figure costs in a printing office. R. T. Porte. Rev. ed. 181p Porte pub. co., Salt Lake City, Utah '24
Practical cost system for printing offices. R. T. Porte. rev. ed. 159p Porte pub. co., Salt Lake City, Utah '25
Standard cost-finding system. 38p United typothetae of America, Chicago '25

See also Lithography—Accounting

Advertising

Eighty-six per cent of the replies were orders; advertising license tax blanks. M. A. Rollins. Ptg Art 44:152-4 O '24
Get printing by making your advertising breathe enterprise and success. F. H. Williams. Ptg Art 44:559-61 F '25
How a typographer uses direct advertising to increase his business. E. H. Stuart. Inland Ptr 73:53-5 Ap '24
Merchandizing your printing service away from home. R. G. Gardner. Inland Ptr 73: 389-90 Je '24
Printer's advertising campaign. E: C. Sterry. Inland Ptr 73:406-8 Je '24
Printer's own advertising. W: A. Kittredge. il Ptd Salesmanship 45:357-62, 447-51, 559-63 Je-Ag '25
Printer's own advertising. R. Wood. Inland Ptr 76:55-6, 387-9 O, D '25
Printers' publicity that registers. A. J. Fehrenbach. Inland Ptr 72:790-2 F '24
Reviews of house-organs. A. J. Fehrenbach. Inland Ptr 72:285-6, 462-4, 961-2; 73:422-4, 590-2, 750-2, 901-3 N-D '23; Mr, Je-S '24
Way one printer is advertising. R. G. Gardner. Ptg Art 44:137-40 O '24
What does advertising mean to printers? I. L. Heuslein. Ptg Art 44:239-46 N '24
When you start out to sell your service. R. E. Ramsay. Inland Ptr 74:237-40 N '24
Whom shall the printer first approach? C: A. Bates. Ptg Art 44:247-9 N '24

Advertising service

Best tonic for sick sales; direct mail advertising. C: A. Bates. Ptg Art 43:423-6 Jl '24
Bigger returns from what you spend for printed matter. D: H. Colcord. il Sales Management 6:377-8+ Ja '24
Building a printing business on creative service. G: O. McCarthy. Inland Ptr 73:443-4 Je '24
Dare to be different! D. E. Stetson. Inland Ptr 76:219-20 N '25
Do service departments pay? A. J. Peel. Inland Ptr 75:894-6 S '25
Does this direct advertising business pay? R. E. Ramsay. Inland Ptr 74:397-400 D '24
Five prime principles of advertising-printing. C: A. Bates. Ptg Art 45:45-7 Mr '25
How to make a Main street printshop profitable; charging for advertising on the percentage plan. W. H. Holley. Ptg Art 43: 349-53 Je '24
If I were a sales manager with printing to buy. J. T. Igoe. Sales Management 9:369-71 S 19 '25
I'm Mr Plupp, of the Mammoth printing co. M. B. Cutler. Ptd Salesmanship 46:153-4 O '25
Locating new markets for printing. R. H. Haywood. Inland Ptr 73:875-6 S '24
Making a start at direct advertising counseling. R. E. Ramsay. Inland Ptr 72:781-4 F '24
Planning, designing and selling an advertising and merchandising campaign. R. E. Ramsay. il Inland Ptr 73:757-60 Ag '24
Planning direct advertising for dealers in men's wear. R. E. Ramsay. Inland Ptr 75: 415-18 Je '25
Printed matter that capitalizes the newspaper habit. il Sales Management 6:841+ Ap '24
Printed salesmanship—how it works. H. K. Dirlam. il Ptg Art 44:49-55 S '24
Printer and direct-mail advertising. R. F. Salade. Inland Ptr 73:555-6 Jl '24
Put your brains into your customers' business. W. H. Mayes. Inland Ptr 75:727-8 Ag '25
Sale of printing and the practice of advertising do not mix. E: W. Smith. Inland Ptr 74:587-8 Ja '25; Reply. R. Haywood. 75:249-50 My '25
Selling versus telling. L. D. MacDonnold. Inland Ptr 75:558-60 Jl '25
Selling your next-door neighbors. C: A. Bates. Ptg Art 44:551-4 F '25
Sky's the printers' limit. C: A. Bates. Ptg Art 44:447-9 Ja '25
Solving customers' selling problems. F. V. Faulhaber. Inland Ptr 75:218-19 My '25
Visualizing the obvious. C: A. Bates. Ptg Art 42:531-3 F '24
What is salesmanship? D. E. Stetson. Ptg Art 42:241-4 N '23
Who has the right to produce and sell direct-mail advertising? C. E. Fisher. Inland Ptr 76:262-4 N '25
Why not start an advertising sheet in your town? J. A. Dixon. Ptg Art 43:331-5 Je '24

Finance

Use of bank loans to finance a new product. S. P. Meech. Univ J of Business 2:211-15 Mr '24

Rates

Charging for direct advertising service. R. E. Ramsay. Inland Ptr 72:623-6 Ja '24
Flat-rate basis on publication work. M. E. Crain. Inland Ptr 76:223-4 N '25
Increasing sales by getting better prices. C. A. Jettinger. Inland Ptr 73:49-51 Ap '24
Printer, the price, the job. R. B. Charles. Inland Ptr 75:52-4 Ap '25
Sales talk on the cost-plus contract. L. R. Coleman. Ptg Art 43:432-6 Jl '24

PRINTING trade—Rates—*Continued*
Should the printer charge for service? D. E. Stetson. Inland Ptr 74:536 Ja '25

Salesmen

One of two men in New York who can sell printing; B. J. Sweetland. M. S. Balyeat. Ptg Art 45:29-32 Mr '25
Printing salesmen as seen from the other side of the desk. H. B. Thompson. Inland Ptr 74:697-9 F '25
What is an ideal printing salesman? J. B. Gray. Inland Ptr 74:699-701 F '25
Where does the beginner begin? S: Lion. Inland Ptr 75:889-91 S '25

Service

Is the customer hard-boiled? J. C. Hertzog. Inland Ptr 75:750-1 Ag '25
Printing adviser, not merely a salesman. F. H. Williams. Inland Ptr 74:865-6 Mr '25
This talk about service. J. B. Gray. Inland Ptr 76:51-2 O '25

See also Printing trade—Advertising service

Statistics

Census of manufactures, 1921. 53p U S Bur Census '24

England

Early English chapel rules and regulations. W. H. Mayes. Inland Ptr 75:54-5 Ap '25

PRIORITIES, Industrial
Industrial America embattled. G. B. Clarkson. Am Ind 24:11-17+ D '23

PRISON labor. See Convict labor

PRISONS
Prison a field for pathological research. G: A. Allen. Nation's Health 7:34-5 Ja '25

PRIVATE brands
Arguments for the buyer who wants something special. C. C. Casey. Sales Management 7:1857-8+ D '24
Breaking away from private-brand business without offending distributors. Ptr Ink 127: 19-20 Ap 17 '24
Fire can't burn up this business. Ptr Ink 132: 153+ Ag 6 '25
Private brands the barrier to harmony in grocery field. A. E. Haase. Ptr Ink 132: 33-4+ Ag 13 '25
What happened to private brands when the slump came. R. B. Simpson. Sales Management 7:1512+ S '24
Why we began advertising after a century of selling. E. V. Connett. Sales Management 7:1711-12 N '24

PRIVATE car lines. See Refrigerator car lines

PRIVATE presses. See Strawberry Hill press

PRIVATE secretaries. See Secretaries, Private

PRIVATE wire systems. See Telegraph—Private wire systems

PRIVIES
Sanitation in Birmingham's unsewered areas. W. A. Hardenbergh. il diags map Pub Works 56:313-16 S '25
Substitutes for sewerage. Pub Works 56:316 S '25
Washington's troop privies. plan Sanitary & Heat Eng 103:213 Ap 3 '25

PRIZE contests. See Advertising—Prize contests; Show windows—Contests

PROBABILITIES
Adjustment of observations. N. Campbell. Philos Mag 6th ser 47:816-26 My '24
Element of probability in index-numbers. F. Y. Edgeworth. Roy Statis Soc J 88:557-75 Jl '25
Grosszahlforschung, zuverlässigkeit technischer messungen und streuungsmasse. G. Sachs. Stahl & Eisen 44:941-6 Ag 7 '24
Introduction to mathematical probability. J. L. Coolidge. 215p Oxford '25
Law of demand and the theory of probability. T. H. Brown. Am Statis Assn J 20:223-30 Je '25
Probability methods for rainfall and run-off. S. L. Moyer. Eng N 94:906 My 28 '25; Discussion. 94:1071; 95:74 Je 25, Jl 9 '25
Review of Professor Ehrenfest's lecture on the theory of probabilities. E. H. Kennard. Sibley J 38:151+ Je '24
Theory of probability and some applications to engineering problems. E. C. Molina. Am Inst E E J 44:122-7 F '25; Discussion. 44: 526-8 My '25
Untried methods of representing frequency. F. Y. Edgeworth. Roy Statis Soc J 87:571-94 Jl '24
Use of medians for reducing observations relating to several quantities. F. Y. Edgeworth. Philos Mag 6th ser 46:1074-88 D '23

See also Errors, Theory of; Least squares

PROCTER and Gamble company
American chemical industries. il Ind & Eng Chem 17:872-3 Ag '25
Idea that added thousands to profits in 24 months; ironing out the peaks and valleys. W: C. Procter. il System 47:597-601+ My '25
Materials handling and the price of soap. M: W. Potts. il Ind Management 70:109-15 Ag '25

PRODORITE
New acid-resisting material; prodorite. J. H West. Chem Age (Lond) 12:522 My 30 '25

PRODUCE trade
Agricultural commerce. G. G. Huebner. New ed., rev. & enl. 529p Appleton '24
Grain and provision markets. See weekly numbers of Economic world

PRODUCER gas. See Gas, Producer

PRODUCTION
Amerikanische gütererzeugung. O. Knoop. Zeit Ver Deutsch Ing 68:1289-92 D 13 '24
Economic effect of surplus producing capacity. W. R. Ingalls. Annalist 23:627-8 Je 2 '24
Factors of production. F: C. Mills. Management & Adm 7:215-19 F '24
Increased production—decreased unemployment. Elec R (Lond) 95:727-9, 789-90, 831-2, 871, 909-10 N 14-D 12 '24; Discussion. 95:970 D 26 '24
Is sales effort slipping as production jumps? G. A. Nichols. Ptr Ink 130:3-4+ Mr 12 '25
Those empty boxes; with reply and rejoinder. Econ J 34:16-31 Mr '24
World afraid of production. B: M. Anderson, jr. Chase Econ Bul 5:3-34 Ag 24 '25; Same cond. Comm & Fin Chr 121:1178-81 S 5 '25

See also Economics; Factory management; Machine shop management; Output of workers; Overproduction; Planning; Quantities (in production); Routing systems; Seasonal industries; Supply and demand; Waste

Statistics

Basic production continues on high level. S. G. Koon. Iron Age 113:1001-2 Ap 3 '24
Basic production falls off sharply. S. G. Koon. Iron Age 114:22-3 Jl 3 '24
Census of industrial production in the Netherlands. E. W. van Dam van Isselt. Roy Statis Soc J 87:433-41 My '24
Census of production. A. W. Flux. Roy Statis Soc J 87:351-75; Discussion. 376-90 My '24
Indexes of production. Survey of Cur Business 36:58 Ag '24
Physical volume of production in the United States for 1923. E. E. Day. R Econ Statis 6: 193-204 Jl '24
Physical volume of production in the United States for 1924. A. M. Matthews. R Econ Statis 7:208-16 Jl '25
Production of specified commodities in the first half of 1924. Survey of Cur Business 36:6 Ag '24
Revised index of manufacturing production. Survey of Cur Business 29:19-24 Ja '24

PRODUCTION, Limitation of
Cotton grower's right to limit production. T. H. Price. Comm & Fin 13:267 Ja 30 '24

See also Rubber industry and trade

PRODUCTION, Stabilizing of. See Seasonal industries

PRODUCTION, Standards of
Essentials of successful management. W. Attwood. Cassier's Ind Management 11:11-12 Ja 10 '24

See also Output of workers; Time study

PRODUCTION and sales, Coordination of
Close checking of short-swing trends cuts selling costs. Automotive Ind 51:957-9 D 4 '24
Co-ordination of production and sales in a manufacturing business. D. W. K. Peacock. Am Management R 13:3-9 Ja '24
Co-ordination of production with sales for oil companies. E. G. Reynolds. Management & Adm 7:85-9 Ja '24
Coordination of sales and production. J. H. Barber. Taylor Soc Bul 9:111-31 Je '24
Co-ordination of sales, production, and finance. J. O. McKinsey. Univ J of Business 2:399-405 S '24
Departmental teamwork is key to improved distribution. E. L. Shaner. il Iron Tr R 76: 499-501+ F 19 '25
Distribution a governing influence on production. G. D. Mercer. Taylor Soc Bul 10: 111-15 Ap '25
Forecasting the manufacturing program. L. Tyler. Iron Age 116:1102+ O 22 '25
How our factory works hand in hand with our sales department; Truscon steel company. T. H. Kane. il Factory 34:581-4 Ap '25
Idea that added thousands to profits in 24 months; ironing out the peaks and valleys. W: C. Procter. il System 47:597-601+ My '25
Increasing business by encouraging hand-to-mouth buying. B. P. Disque and J: A. Murphy. Ptr Ink M 11:33-4+ N '25
Interdependence of production engineering and merchandising. R. E. Rindfusz. Taylor Soc Bul 10:116-18 Ap '25
Making exports balance production. D. P. de Young. Management & Adm 10:19-22 Jl '25
Our gains from balanced organization; Jewel tea company. M. H. Karker. Factory 34:411-13+ Mr '25
Planning department—for what? W. L. Carver. Automotive Ind 53:734-6 O 29 '25
Sales forecasting that helps the manufacturing department. Ptr Ink 131:41-2+ My 7 '25
Sales report that helps to balance sales. R. Dickinson. Ptr Ink 132:167-8+ S 10 '25
Saturation? not if selling is right. A. R. Erskine. il Ptr Ink M 8:23-4 Mr '24
Successful methods for increasing sales and balancing production; management in Southern furniture plants. C: F. Scribner. Management & Adm 10:145-8 S '25
System for budgeting co-ordinated sales and production. E: H. Tingley. Management & Adm 10:67-70 Ag '25
We find out how to speed-up production 50%. E. Lilly. il System 48:547-8+ N '25
We've developed real coordination between sales and production. J. Inglis. Factory 35: 365-8+ S '25
What I discovered about forecasting sales. Comm & Fin 13:249-51 Ja 30 '24

PRODUCTION control. See Factory management

PRODUCTION records. See Progress records

PRODUCTS
Twelve ways of increasing the ability of the product. B: Jefferson. Ptr Ink 127:3-4+ Je 12 '24

PRODUCTS, Bulky
If you can't get store display for that bulky product. E. B. Weiss. il Ptr Ink M 10:52+ Je '25

PRODUCTS, Competitive
How a seemingly competitive item was merchandised. Ptr Ink 131:146+ Ap 16 '25

PRODUCTS, Improved
Introducing new models without vexing users of the old; the Cleveland metal products company's new heater campaign. J. A. Murphy. Ptr Ink 129:3-4+ N 6 '24
Marketing a new model in face of strong dealer opposition; perfected Eversharp. A. G. Frost. Ptr Ink 128:3-4+ Jl 17 '24
New shirts for old companies. Ptr Ink 131: 88-9 My 7 '25
When the jobbers' salesmen are the neck of the sales bottle; Ekco guaranteed strapping. P. Chapman. il Sales Management 8:797-8+ My 30 '25
When the trade thinks your product has lost its sales kick. il Sales Management 7:1351-2+ Ag '24
When you bring out that new model. D. Gridley. il Ptr Ink M 8:28-9+ Je '24

Advertising
What to say when the product goes wrong. Ptr Ink 132:83-4+ Jl 9 '25

PRODUCTS, New
Adding a product of different quality and price to an established line. Harvard Business R 3:357-61 Ap '25
Big campaign supports new Royal baking powder product. Ptr Ink 128:10+ S 11 '24
Profits and perils of industrial progress. J: H. Van Deventer. il Ind Management 70:205-9 O '25
Smoothing the way for a radically new product. Ptr Ink 128:139-40 Jl 31 '24
Taking advantage of a competitive discovery; the Eduard Van Dam diamond company. R. Crothers. Ptr Ink 130:113-14 Ja 22 '25

Advertising
Advertising in the offing for new household accessory; Griswold skillet cover. Ptr Ink 132:130+ Jl 30 '25
Announcing a new product to an industrial market. Ptr Ink 131:19-20 Ap 16 '25
Pierce-Arrow defies advertising precedents of its trade. W. Bates. Ptr Ink 128:33-4 Ag 28 '24

PRODUCTS, Obsolescent
Dietz lantern plan of mending its fences. C: G. Muller. Ptr Ink 129:105-6+ D 25 '24
Merchandising the lost hope. G. A. Nichols. Ptr Ink 130:113-16+ Ja 1 '25
Old man obsolete is always just around the corner. D. Hubbard. Ptr Ink 128:10+ S 4 '24

PRODUCTS, Quality of. See Quality of products

PRODUCTS, Small
A. Stein and company jumps window showings for Paris garters from 1,300 to 20,000 in seven years. C. B. Larrabee. Ptr Ink 129:97-100 O 23 '24
Magnifying the infusoria of industry. A. Belden. Ptr Ink 127:41-2+ Je 5 '24

See also Notions (merchandize)

PRODUCTS, Technical. See Technical products

PROFESSION, Choice of
Choosing your life work. W: Rosengarten. 2d ed. 323p McGraw-Hill '24
Professional opportunities for college trained men and women. 142p Univ. of Oklahoma, Norman '25
Right job, how to choose, prepare for, and succeed in it. K. M. H. Blackford and A. Newcomb. [Bibliog. p. 595-603] Review of reviews corp., New York '24
Simplifying the selection of a career. C. H. Murray. Sibley J 39:314-15 Ap '25; Same. Eng & Contr (G C) 64:1336-8 D 16 '25
Vocational self-guidance; planning your life work. D. Fryer. 385p Lippincott '25
What men do. W: M. Jackson. 297p Macmillan '25

Bibliography
Vocations for college women; a reading list. 16p American library assn., Chicago '25

PROFESSIONAL advertising
Ethics of advertising for accountants. C. H. Scovell. Management & Adm 7:345-7 Mr '24
How professional services can be advertised. Ptr Ink M 8:132 Ap '24

PROFESSIONAL advertising—*Continued*

Technical men of a city explain themselves. H. W. Smith. Ptr Ink 128:94+ S 25 '24

See also Accountants—Advertising; Architects—Advertising; Chemists—Advertising; Engineers—Advertising; Lawyers—Advertising; Physicians—Advertising

PROFESSIONAL education

College education and professional training. W. E. Wickenden. J Eng Educ 15:180-3 N '24

Professional organizations and professional schools. W. E. Wickenden and A. Dick. J Eng Educ 15:224-44 D '24

Training for the professions and allied occupations; facilities available to women in the United States. 742p Bur. of vocational information, New York '24

What makes a course a curse? J. C. Chapman. J Eng Educ 15:173-9 N '24

See also Engineering education

PROFESSIONAL ethics

City managers' code of ethics. Pub Works 56: 32 Ja '25

Codes of ethics. E. L. Heermance. 525p Free press ptg. co., Burlington, Vt. '24

Ethical conduct for contractors. Eng & Contr (G C) 64:435-8 Ag 19 '25; Excerpt. Eng N 95:142 Jl 23 '25; Same. Pub Works 56:279-80 Ag '25

Growth of professional ethics. C. H. Nau. J Account 37:1-10 Ja '24

Question of ethics; advertising in architectural journals. C. H. Blackall. il Am Arch 125:21-2 Ja 2 '24

See also Business ethics; Engineering ethics; Newspaper ethics; Professional advertising; Professional service

PROFESSIONAL service

American association of engineers minority report. Prof Eng 9:12-13 Ag '24

Perverted state aid in landscape and city planning. G: Burnap. Arch Rec 55:498-9 My '24

Reports on free engineering. W Soc E J 30: [current news] 93-5 Je '25; Same. Eng & Contr (W W) 64:364-6 Ag 12 '25; Same cond. Heat & Ven 22:75 Ag '25; Excerpt. Eng N 95:52-3 Jl 9 '25

The teacher in industry. Ind & Eng Chem 16: 553-4 Je '24

PROFESSIONS

Spirit of professionalism. H. von W. Schulte. Am Inst Arch J 12:438-41 O '24

What to do. Am Inst Arch J 12:441-2 O '24

See also Profession, Choice of; *also* names of special professions, e.g. Engineering

PROFILING

Convenient profiling fixture. I. B. Rich. il Am Mach 63:546 O 1 '25; Discussion. A. T. Gregory. 64:169 Ja 28 '26

Coulter profiling machine. il Am Mach 63:75-6 Jl 9 '25

Profile-plotting machine. il Engineering 119: 474 Ap 17 '25

Profiling on a triplex machine. I. B. Rich. il Am Mach 63:482 S 17 '25

PROFILOMETER

How highway irregularities are measured by use of the profilometer. diags Automotive Ind 50:1132 My 22 '24

Illinois tests pavement surfaces by profilometer. H. F. Clemmer. il Eng N 92:484-5 Mr 20 '24; Same. Can Eng 47:183-4 Jl 22 '24

Investigations of smoothness of pavements. H. F. Clemmer and D. D. McGuire. il Munic & Co Eng 68:35-7 Ja '25; Same. Eng & Contr (R & S) 63:269-70 F 4 '25; Same abr. Eng N 94:117-18, 246 Ja 15, F 5 '25

PROFIT

Appellate division construes profits and commissions form. J. W. Zeller. Spectator 113: 45+ N 27 '24

Are profits immoral? E. Benn. Electrician 92: 734 Je 13 '24; Same. Chem Age (Lond) 10: 622 Je 14 '24

Are you really making money? R. R. Voorhees. Inland Ptr 73:220-1 My '24

Boot and shoe companies' profits. Economist 100:338-9 F 21 '25

Capital and profits in industry. N. Sargent. Am Ind 25:26-7 Jl '25

Deserving a manufacturing profit. B. A. Franklin. Management & Adm 9:329-32 Ap '25

Determining profits in advance; working plans for profit. G. C. Harrison. Management & Adm 8:605-10; 9:41-5, 165-8, 249-52 D '24-Mr '25

Do your dealers know how to figure profits? Ptr Ink 129:53-4+ O 30 '24

Fancy profits, small profits, no profits, go to make average profits. G. A. Nichols. Ptr Ink 130:3-4+ Ja 22 '25

Gross and net profits. F. L. Fisher. Paper Tr J 81:55-8+ Ag 13 '25

How much should my dollars earn? R. C. Epstein. il System 46:564-7+ N '24

Incentive of gain; is it the basis of commerce and industry? E. Benn. Electrician 92:636 My 23 '24; Same. Chem Age (Lond) 10:539 My 24 '24

Index of profits. Am Statis Assn J 20:104-7 Mr '25

Industrial company profits. Moody's Inv Serv 16:365-6 O 2 '24

Industrial profits; quarterly analysis. Economist 98:43-4; 99:85-6, 601-2; 100:45-6, 794-5; 101:93-4, 608-9 Ja 12, Jl 19, O 18 '24, Ja 10, Ap 25, Jl 18, O 17 '25

Margins of profit. Moody's Inv Serv 17:90-1 Mr 12 '25

Margins of profit. Nat City Bank p 106-15 Jl '24; Excerpts. Econ W n s 27:835-8 Je 14 '24

Picking the profitable products. R. Rosenthal. Management & Adm 9:429-31 My '25

Predetermination of profits. C. F. Yourman. Am Management R 14:244-6 Ag '25

Price, profit and return on invested capital. H. D. Force. J Account 39:27-33 Ja '25; Same. Paper Tr J 80:57-9 F 19 '25

The profit motive; is it indispensable to industry? H. F. Ward. 44p League for industrial democracy, 70 Fifth av., New York '24

Profits. W: T. Foster and W. Catchings. 465p Houghton '25

Profits. W: T. Foster and W. Catchings. il Nation's Business 13:26-8 Mr '25

Profits and losses of American industry in 1921. Econ W n s 28:330-3 S 6 '24; Same. Nat City Bank p 140-5 S '24

Profits of London stores. Economist 100:1125-6 Je 6 '25

Shipping companies' profits. Economist 98: 1192-3 Je 14 '24

Survey of industrial profits. W: E. Dunn. Bradstreet's 52:654-5 O 11 '24

Unwisdom of charging "all the traffic will bear." Ptr Ink 125:45-6+ N 22 '23

Volleys of turnovers. E. Dakin. Comm & Fin 14:815-17 Ap 29 '25

Wages and profits; the forces that govern them. E. Benn. Electrician 92:702 Je 6 '24; Same. Chem Age (Lond) 10:597 Je 7 '24

What is a fair percentage of profit? Brick & Clay Rec 63:769 N 27 '23

What price profits? taking risks! W: T. Foster and W. Catchings. Nation's Business 13:16-19 Jl '25

Where is the profit line going? J. H. Collins. Automotive Ind 51:509-11 S 18 '24

Which business makes the highest profit? R. C. Epstein. il System 46:420-3+ O '24

Why not do away with profits? W: T. Foster and W. Catchings. Harvard Business R 3: 141-9 Ja '25; Same. Paper Tr J 80:55-8 Mr 26 '25

See also Capitalism; Excess profits tax; Interest; Marketing—Cost; Turnover

PROFIT and loss statements

Analysis of the revenue statement. H. A. Finney. J Account 37:466-74 Je '24

Appraisals and the profit and loss statement. H. G. Baldwin. Paper Tr J 80:57-60 My 28 '25

Some bank credit problems. Bankers M 111: 623-31 O '25

PROFIT sharing
Case for profit sharing. Cassier's Ind Management 11:499-501 D '24
Copartnership and profit-sharing plans in Great Britain in 1924. Monthly Labor R 21: 639-40 S '25
Dennison company's works committee. F. Meine. Univ J of Business 2:85-92 D '23
English profit-sharing and copartnership schemes in 1923. Monthly Labor R 19:1185-6 N '24
English unemployment insurance and profit-sharing plan. Monthly Labor R 18:880-1 Ap '24
High cost of vice-presidents—and causes thereof. J: Oakwood. Forbes 13:442-4+ Ja 19 '24
Management warms the bench while employees boost sales; annual bonus without expense to St Joseph, Mo., oil company. Ptr Ink 126: 53-4 Mr 6 '24
Our biggest asset in management; the Scranton lace co. P. B. Belin. il System 47:187-9 F '25
La participation aux bénéfices. A. Trombert. 3d ed. 442p [bibliog. p. 247-58] Chaix, Paris '24
President's letters to his workers. G. F. Johnson. il System 46:724-8+ D '24
Profit-sharing and co-partnership in France. Int Labour R 9:398-403 Mr '24
Profit-sharing and recent French legislation. P. Pic. Int Labour R 10:1-29 Jl '24
Profit-sharing as a method of compensation. R. E. Heilman. Paper Tr J 81:61-4+ S 10 '25
Profit-sharing in banks and financial institutions. J Account 37:161-82 Mr '24
Profit sharing in electrical appliance sales. H. C. Hueglin. Elec W 84:920-1 O 25 '24
Profit-sharing in England. W: Wallace. Management & Adm 7:93-6 Ja '24
Profit sharing in France. Monthly Labor R 18:1154-5 My '24
Profit sharing; Sears, Roebuck & co. Am Management R 13:10-11 Ja '24
Sharing a business with its workers; Dennison manufacturing company. R. R. Updegraff. il Forbes 15:398-400 Ja 1 '25
Wage incentives and profit-sharing. G. C. Brown. Management & Adm 7:567-72 My '24
Who deserves profits? a plan followed by the Winnetka trust and savings bank. System 46:57 Jl '24
Why our workmen produce 30% more than they did. E. Romanet. il Factory 33:784-5+ D '24
Why we share our profits. B. S. Rowntree. System 46:45-6+ Jl '24

See also Bonus system; Co-partnership; Employees as stockholders

PROFITEERING
Third party declarations. Nat City Bank p 128-35 Ag '24

PROFITS insurance. See Insurance, Profits

PROGRESS
On continuous threads of activity. V. Karapetoff. Sibley J 38:9-11 Ja '24
Price of progress. K. Gray. Forbes 13:701-2+ Mr 15 '24

PROGRESS records
Board shows progress of car overhauling. il Elec Ry J 62:1013 D 15 '23
Borrowed from the railroad. A. G. Monks. il Factory 34:769+ My '25
Charts that help a small plant grow. H. W. Case. il Factory 35:382-4+ S '25
Construction progress records and charts; C., B. & Q.R.R. Eng N 92:416-17 Mr 6 '24
Effecting economies by regulating work flow. A. Whitehead. Cassier's Ind Management 11:497-8 D '24
Factory process returns and their use as a check on plant efficiency. J. A. Watson. Soc Chem Ind J (Chem & Ind) 44:101-5 Ja 30 '25
Factory production progress record for the office. W. C. Powers. il Factory 32:503-4 Ap '24
Progress boards for the wheel gang. J. R. Phelps. il Ry Mech Eng 99:115-16 F '25
Progress chart for transmission line. Elec W 86:570 S 19 '25
Progress charts of the vector type. F. J. Schlink. Management & Adm 8:303-4 S '24
Progress of construction and trend of cost. J: Oram. charts Elec W 84:369 Ag 23 '24
Progress-of-work board for repair jobs. il Management & Adm 8:309 S '24
Progressing work and promises of delivery. H. H. Southworth. Ind Management (Lond) 10:295-8 N 29 '23
Quantity progress profiles. H. S. Martin. Eng N 91:1071 D 27 '23
Scheduling and progress-recording of drawings. I. Hoffman. Mach 30:296-7 D '23

PROGRESSIVE party, 1924
American federation of labor finds Republican and Democratic presidential candidates unacceptable to labor—endorses R. M. La Follette and B. K. Wheeler. Comm & Fin Chr 119:907-10 Ag 23 '24
Election issues. Nat City Bank p 157-66 O '24
Heading off La Follette and a third party. Comm & Fin Chr 119:1442-4 S 27 '24

PROHIBITION
American liquor treaties with England, Germany and Sweden. Comm & Fin Chr 118: 2527-8 My 24 '24
Chemist and prohibition; beneficial results of prohibition. W. B. Wheeler. Chem Age 33: 1-3 Ja '25
Cramton bill defeat is gratifving victory. W. L. Crounse. Oil Paint & Drug Rep 107:19+ Mr 9 '25
Cramton bill in amended form is favored by subcommittee majority. Oil Paint & Drug Rep 107:19 F 9 '25
Cramton bill interests get hearing before subcommittee under Sterling. Oil Paint & Drug Rep 106:19+; 107:19-20+ D 22 '24, Ja 12 '25
Gaston B. Means and Elmer Jarnecke sentenced to Atlanta penitentiary for conspiracy to violate prohibition laws. Comm & Fin Chr 119:41-2 Jl 5 '24
Has prohibition helped prosperity? Forbes 16: 742 S 1 '25
Is advertising ethical when it runs counter to the spirit of the prohibition amendment? W. L. Larned. Ptr Ink 126:33-4+ F 7 '24
Leading Australian statesman's views as to America's efforts to enforce prohibition and other laws. W. F. Finlayson. Manuf Rec 85: 105-6 Je 5 '24
National prohibition, the Volstead act annotated, and digest of national and state prohibition decisions. A. W. Blakemore. 787p M. Bender & co., Albany, N.Y. '23
Prohibition commissioner interprets rulings on advertising liquor-flavored specialties. Ptr Ink 125:81-2+ N 15 '23
Prohibition enforcement reorganized by Treasury. Oil Paint & Drug Rep 107:21+ Je 29 '25
Prohibition has justified itself; letters from leading manufacturers, railroad presidents, bankers, physicians and educators. Manuf Rec 88:60-79 Jl 30; 81-2 Ag 6; 67-8 S 17; 83-9 N 5 '25
Prohibition reorganization shears Haynes of much of his authority. Oil Paint & Drug Rep 108:21 Ag 10 '25
Report of N.W.D.A. committee on legislation. Oil Paint & Drug Rep 106:45-8 O 1 '24; 108: 43-6 O 15 '25
Some serious aspects of the alcohol problem. H. C. Lythgoe. Chem Age 32:209-14 My '24

PROJECTILES
Initial motion of a projectile. E. T. Hanson. Philos Mag 6th ser 46:1027-48 D '23
Motion of a particle projected from a point on the earth's surface—variation in gravity being taken into account. J. Robertson. Philos Mag 6th ser 50:180-7 Jl '25
Phenomenon of drift in the projectile. A. G. Ingalls. Sci Am 131:123 Ag '24

See also Ballistics; Bombs, Aerial; Photography of projectiles

PROJECTION apparatus
Optical projection of the tracks of alpha particles. H. T. Pye. il diag J Fr Inst 198: 813-16 D '24

PROJECTION rooms. See Moving picture theaters—Projection rooms

PROJECTIVE geometry. See Geometry, Projective

PROLINE
Proline and tryptophan as factors influencing the accuracy of Van Slyke's method for the determination of nitrogen distribution in proteins. R. A. Gortner and W. M. Sandstrom. Am Chem Soc J 47:1663-71 Je '25

PROMISSORY notes
Effect of failure to place revenue stamps on note. Bankers M 109:881-2 N '24
Liability of accommodation maker where note is transferred after maturity. Bankers M 110:262-4 F '25
Note falling due on failure of holder to provide additional security. Bankers M 109: 1095-7 D '24
Proof of presentment for payment. Bankers M 108:223-4 F '24
Purchaser of note, procured by fraud, not entitled to enforce it against maker. Bankers M 108:226-8 F '24
Rights of a Federal reserve bank in action against maker of a promissory note held by reserve bank as collateral security for indebtedness of member bank. Comm & Fin Chr 121:420-1 Jl 25 '25; Same. Fed Res Bul 11:484-6 Jl '25

PROMOTERS
Easy money from borax and potash; a criticism of the promotion methods of the Burnham chemical co. Chem & Met Eng 31:295-7 Ag 25 '24
Truth-in-advertising movement as it affects the wealth-producing factors in the community. H. J. Donnelly, jr. Ann Am Acad 115:161-73 S '24
Visionary promoter does as much harm as the crook. R. Dickinson. Ptr Ink 127:112-13+ My 29 '24

See also Oil promoters

PROMOTERS, Fraudulent
Billion dollars more sales; make communities safe for decent business. R. Dickinson. Ptr Ink 128:117-18+ S 25 '24
Blue sky promoter. H. J. Kenner. Credit M 26:14+ N '24
Blue-sky promoter is stealing morale. R. Dickinson. Ptr Ink 129:17-20 O 2 '24
Blue-sky promoter is stealing your sales! R. Dickinson. Ptr Ink 127:3-4+ My 1 '24; Abstract. Bankers M 109:209-10 Ag '24
Bucket shop activity. Economist 99:377 S 6 '24
Checkmating the get-rich-quick promoters. B. G. Priestley. Bankers M 111:317-23 S '25
Daylight cure for blue-sky promotions. R. D. Simmons. Ptr Ink M 9:41-2 Ag '24
Financing the prospect. A. B. Parsons. Eng & Min J 117:676-83 Ap 26 '24
Looting the laborer. C. M. Wright. Ptr Ink 128: 25-6+ Jl 10 '24
Making it difficult for the blue-sky salesman. R. Dickinson. Ptr Ink 130:25-6+ F 12 '25
Mike Piselski wants you to tell him. R. Dickinson. Ptr Ink 129:25-6+ O 30 '24
Milking millions from the mill; or strong for philanthropy. diags Eng & Min J 117:1007-8 Je 21 '24
Nation-wide campaign against swindlers. Bradstreet's 53:145 F 28 '25
War on national scale declared on investment frauds. Ptr Ink 130:69-70+ Mr 5 '25

PROMOTION of employees. See Employees—Promotion

PROOFREADING
Are proofreaders parasites? E: N. Teall. Inland Ptr 75:749 Ag '25
Ask the proofreader about word puzzles! E: N. Teall. Inland Ptr 74:884-5 Mr '25
Causes of proofreading errors analyzed. Ptr Ink 126:157 Mr 20 '24
Decay of proofroom standards. E: N. Teall. Inland Ptr 76:98-9 O '25
Filing system for the proofroom. H. E. Brenneman. Inland Ptr 74:375 D '24
Investigation of proofreaders' illusions. H. R. Crosland. Oregon U Pub v 2:1-168 O '24
Neat proofs, good proofs! E: N. Teall. Inland Ptr 75:234-5 My '25
Proof of the job. E: N. Teall. Inland Ptr 73: 898-9 Je '24
Proofreaders, old and new. D. F. Young. Inland Ptr 75:391-2 Je '25
Proofroom. E: N. Teall. Published in monthly numbers of Inland printer
Qualifications of a proofreader. J: F. Dobbs. Inland Ptr 75:560 Jl '25
System of marking copy for newspaper machines. E. R. Williams. 82p E. R. Williams, Indianapolis, Ind. '24
That proofroom library. E: N. Teall. Inland Ptr 72:930-1 Mr '24
Those good old days—that never were. E: N. Teall. Inland Ptr 76:260-1 N '25

See also Capitalization; Compound words; Printing, Practical—Style manuals; Word division

Press proof
Lesson on O.K.'ing for press. H. E. Brenneman. Inland Ptr 74:723-4 F '25

PROPAGANDA
Government by propaganda! Ptr Ink 126:111-12+ Ja 17 '24
Publicity, advertising, news and propaganda —what are they? M. S. Sherman. Aera 13: 1875-8 Je '25

See also Publicity

PROPANE
Use of propane for refrigeration. H. D. Edwards. charts Am Inst Chem Eng Trans v 14:423-8; Discussion. 428-33 '21-'22

PROPELLERS
Action of the contrapropeller. O. Overgaard. diags Marine Eng 29:591-4 O '24
Cavitation and propeller erosion. S. E. Slocum. diags Marine Eng 30:155-7 Mr '25; Discussion. E. A. Stevens, jr. 30:362-3 Je '25
Contrapropeller fitted to American steamship Norfolk. il Marine Eng 29:371 Je '24
Contra-propeller reduces fuel used 11.77 per cent. Marine Eng 30:448 Ag '25
Erosion of ship propellers. W. R. Whitney. il Ind & Eng Chem 17:387-8 Ap '25
Experiment tank in relation to ship and propeller design. E. R. Mumford. Engineering 120:271-5 Ag 28 '25; Abstract. Engineer 140: 235 S 4 '25; Discussion. Engineering 120:282 S 4 '25
Experimental researches on propeller cavitation. Engineer 136:590-1, 605-7, 632-5, 660-1 N 30-D 21 '23
Extent of cavitation in U. S. scouts and destroyers. E. F. Eggert. Marine Eng 29: 744-6+ D '24; Same. Engineering 118:717-18 N 21 '24
Hotchkiss hydraulic propellers. il diag Engineering 117:13, 16 Ja 4 '24
Increasing the efficiency of the screw propeller. W. Pollock. il diags Engineering 119:459-61, 489-90 Ap 10-17 '25; Same cond. Engineer 139:444 Ap 17 '25; Discussion. Engineering 119:444 Ap 10 '25; Engineer 139: 402-3 Ap 10 '25
Kirsten-Boeing propeller; abstract. il Mech Eng 47:506 Je '25
Leviathan propeller weighs over 20 tons. il Iron Tr R 74:1052 Ap 17 '24
Magnus effect propeller. il diags Sci Am 133: 126 Ag '25
Oil lubrication of propeller tail shafts. W. G. Esmond. diag Marine Eng 29:638-9 N '24
Propeller design based upon model experiments. D. W. Taylor. Marine Eng 28:751-2 D '23
Propeller guiding devices. E. Foerster. il diags Marine Eng 29:531-4 S '24
Rees propeller-jet marine propulsion. il diags Engineer 139:494-5 My 1 '25

PROPELLERS—*Continued*
Rubber sleeves protect propeller shafting from corrosion. P. E. Dampman. il India Rubber W 70:641-2 Jl '24; Same. Marine Eng 29:479-80 Ag '24
Screw propellers and estimation of power for propulsion of ships, also airship propellers. C: W. Dyson. 3d ed. 2v Simmons-Boardman pub. co., 30 Church st., New York '24
Shrouding the propeller. il Sci Am 130:237 Ap '24
Taylor's new propeller curves. A. J. C. Robertson. Marine Eng 29:105-8 F '24
Test out new aid to propeller. il Marine R 54:292 Jl '24
Wake propeller coefficients. D. W. Taylor. Marine Eng 30:335-41 Je '25; Same cond. Engineering 119:429-32 Ap 3 '25; Discussion. 119:443 Ap 10 '25; Engineer 139:402 Ap 10 '25
Water-jet propulsion. il Sci Am 130:249 Ap '24
Work of W. and R. E. Froude. A. W. Johns. Engineer 138:715-17 D 26 '24
See also Airplane propellers; Ship propulsion

Manufacture

Molding a propeller in loam. L. V. Johnston. diag Foundry 52:446-8 Je 1 '24
Sweeps a differential pitch; method employed in the foundry to make the propeller mold. J. Edgar. diags Foundry 52:51-2 Ja 15 '24
20-ton bronze propeller. il Marine R 54:47 F '24

Testing

Comparison of the Taylor and the Berlin experiments on three-bladed model propellers. K. Schaffran. diag Marine Eng 30:586-9 O '25
Model propeller experiments in 3 nations compared. D. W. Taylor. diags Marine Eng 30:36-45 Ja '25

PROPERTY income. See Income

PROPIONIC acids
Beta-toloxy-propionic acids and the corresponding chromanones. S. G. Powell and N. G. Johnson. Am Chem Soc J 46:2861-3 D '24
Rates of fermentation of sugars by the propionic organism. E. O. Whittier, J. M. Sherman and W. R. Albus. Ind & Eng Chem 16:122 F '24

PROPIONITRILES
Condensation of β-chloro- and β-ethylcarbonato-propionitriles with resorcinol. E. Chapman and H: Stephen. Chem Soc J 127: 885-92 Ap '25

PROPIOPHENONES
Optically active β-phthalimino-β-phenylpropiophenones. A. McKenzie and T. M. A. Tudhope. Chem Soc J 125:923-30 Ap '24

PROPOLIS gum
Investigation of Canadian propolis gum. T. P. G. Shaw. chart Can Chem & Met 8:33-6 F '24

PROPORTION. See Design

PROPORTIONAL representation
Proportional representation. L. T. Beman. Ref Shelf 3:1-149 [bibliog. p. 15-24] no 5 '25

PROPRIETARY association of America
Annual meeting, 42d, New York, May 13-14. Oil Paint & Drug Rep 105:19+ My 19 '24

PROPRIETARY goods. See Drug trade

PROSIPHON
Discovery of the prosiphon in cretaceous ammonites from California, with remarks upon the function of the organ. C. H. Crickmay. diags Am J Sci 5th ser 9:229-32 Mr '25

PROSPECTING
Chalk marks, bubbles, and mine prospects. A. B. Andrews. Eng & Min J 120:183-4 Ag 1 '25
Churn drill prospecting of porphyry copper deposits and how it checks with actual mining. Eng & Min J 119:855 My 23 '25
Eötvös torsion balance improved. Eng & Min J 119:745 My 2 '25; Chem Age (Lond) 12: 397 Ap 25 '25
Geologic data in other than copper mines. G. N. Bjorge. Min Cong J 10:343-7 Ag '24
Leyner drill in underground prospecting. R. H. Poston. diags Eng & Min J 118:856-7 N 29 '24
Location of sub-surface fault planes with Seismos tried in Texas. P. Wagner. Nat Pet N 15:51-2 D 12 '23
New method of radio-aeronautic prospecting. H. Shaw. Econ Geol 20:391-5 Je '25
Portable compressor rig for prospecting. il Eng & Min J 120:576 O 10 '25
Prospecting for disseminated copper by a study of leached croppings. C: H: White maps Eng & Min J 117:483-8 Mr 22 '24
Prospecting for minerals in Arizona. Min Cong J 11:545-6 N '25
Relation of earth temperatures to buried hills and anticlinal folds. W. T. Thom, jr. diag Econ Geol 20:524-30 S '25
Searching the interior of the earth's crust. A. Gradenwitz. il Eng & Min J 118:54-6 Jl 12 '24
See also Assaying; Mine surveying; Mines and mineral resources; Ore sampling; Petroleum—Prospecting

Electric method

An achievement in electrical prospecting. Eng & Min J 117:474 Mr 22 '24
Elbof method of electrical prospecting. Eng & Min J 118:596 O 11 '24
Electrical prospecting; detecting hidden orebodies. G. Bergstrom. il Elec R (Lond) 96: 76-7 Ja 9 '25
Practical experience in electrical prospecting. H. Lundberg. diag Eng & Min J 117:584-5 Ap 5 '24
Prospecting by radio. W. C. Riley. il Eng & Min J 118:733-4 N 8 '24; Discussion. K: Sundberg. 119:254 F 7 '25

PROSPERITY. See Business conditions

PROSSER engine
Test of Prosser-type reciprocating steam engine. L. V. Ludy. il diags Mech Eng 47:249-53 Ap '25; Abstract. Power Pl Eng 29:186-8 F 1 '25; Discussion. Mech Eng 47:253-5 Ap '25

PROTEASE
Studies on enzyme action; the spontaneous increase in the activities of lipase and protease of tissue extracts. H. M. Noyes, K. Sugiura and K. G: Falk. Am Chem Soc J 46:1885-9 Ag '24

PROTECTION. See Free trade and protection; Tariff

PROTECTIVE paint. See Paint, Protective

PROTEINS
Evidence of a new amino acid in proteins. R. A. Gortner and W. F. Hoffman. Am Chem Soc J 47:580-4 F '25
Hexosamines and mucoproteins. P. A. Levene. 163p [bibliog. p. 150-6] Longmans '25
Humin formed by the acid hydrolysis of proteins; the condensation of indole derivatives with aldehydes. G: O. Burr and R. A. Gortner. Am Chem Soc J 46:1224-46 My '24
Physico-chemical studies on proteins; alkali binding—a comparison of the electrometric titration of proteins and of phosphoric acid with sodium and calcium hydroxides. W. F. Hoffman and R. A. Gortner. J Phys Chem 29:769-81 Jl '25
Proline and tryptophan as factors influencing the accuracy of Van Slyke's method for the determination of nitrogen distribution in proteins. R. A. Gortner and W. M. Sandstrom. Am Chem Soc J 47:1663-71 Je '25
Proteins and the theory of colloidal behaviour. J. Loeb. 2d ed. 380p McGraw-Hill '24
Proteins of the bark of the common locust tree, Robinia pseudacacia; abstract. D. B. Jones, C. E. F. Gersdorff, and O. Moeller. J Fr Inst 200:678-9 N '25
Recent advances in protein chemistry. H. B. Vickery. bibliog Ind & Eng Chem 16:1029-30 O '24

PROTEINS—*Continued*
Researches on proteins; the preparation of the protein sericin from silk. E. M. Shelton and T. B. Johnson. Am Chem Soc J 47:412-18 F '25
Solubility of proteins. S. P. L. Sörensen. Am Chem Soc J 47:457-69 F '25
Vegetable proteins. T: B. Osborne. 2d ed. 154p [bibliog. p. 123-51] Longmans '24
See also Albumin; Amino acids; Casein; Gelatin; Gliadin; Glutenin; Tryptophan

PROTOCOLISM. See Trade agreements

PROTODONATA
Kansas Permian insects; the orders protodonata and odonata. R. J. Tillyard. il diags Am J Sci 5th ser 10:41-73 Jl '25

PROTOHYMENOPTERA
Kansas Permian insects; the new order protohymenoptera. R. J. Tillyard. il diags Am J Sci 5th ser 8:111-22, pl 4 Ag '24

PROTOPECTIN. See Pectins

PROTOPLASM
Protoplasmic action and nervous action. R. S. Lillie. 417p Univ. of Chicago press, Chicago '23

PROTOZOA
Are microscopic animals a factor in the foaming of Imhoff tanks? J. B. Lackey. diags Pub Works 56:6-7 Ja '25

PROTRACTORS
Apparent-dip protractor. W. S. T. Smith. Econ Geol 20:181-4 Mr '25
Double-arm protractor. E. Betz. Mach 31:814 Je '25
Solving trigonometrical problems with a protractor. C: Kugler. diags Mach 31:571 Mr '25
Vector-ruling protractor. A. F. Zahm. il diags J Fr Inst 197:209-15 F '24

PROVIDENCE, Rhode Island
Experience of the first year of zoning in Providence. C: E. Fisher. Eng & Contr (Bldgs) 62:1381-3 D 24 '24

Rapid transit
Bus operating results in Providence, R.I. maps Elec Ry J 64:43-5 Jl 12 '24
Four-track operation in Providence; coordinated service, with buses carrying the local passengers and cars running express. il maps Elec Ry J 63:411-13 Mr 15 '24
Looping back reduces delays by 28 per cent in Providence. il maps Elec Ry J 63:651-3 Ap 26 '24
$150,532 loss in Providence. Elec Ry J 63:595-6 Ap 12 '24
Seven kinds of bus operation. A. E. Potter. Elec Ry J 64:810-11 N 8 '24

Streets
Rotary traffic control system. G: T. Seabury. il map Good Roads 67:10-11+ Jl '24

Water supply
Present methods of water purification in Providence. J. W. Bugbee. N E Water Works Assn J 38:244-8 S '24; Same. Eng & Contr (W W) 62:829-32 O 8 '24; Same. Can Eng 48:259-60 F 24 '25; Discussion. N E Water Works Assn J 38:248-9 S '24
Survey control in driving 3-mile water-supply tunnel. R: R. Bradbury. il Eng N 95:594-8 O 8 '25

PROVIDENT trust company, Philadelphia
Interior of building of the Provident trust company. il plans Am Arch 128:147-8, pl 218-21 Ag 12 '25

PRUDENTIAL assurance company
Mass production in insurance. Economist 100:586-7 Mr 28 '25

PRUDENTIAL insurance company of America
Fiftieth anniversary. Spectator 115:7-9+ O 15; 12+ O 22 '25

PRUD'HOMME, Maurice
Perkin medal. Soc Dyers & Col J 41:202-3 Je '25

PRUNES
Marketing plan for 1925 prune crop. Comm & Fin Chr 121:937 Ag 22 '25

PRUSSIAN blue
Extraction de l'acide cyanhydrique du gas de houille et préparation directe du bleu de prusse. A. Delclève. Chimie & Ind 10:632-5 O '23; Same (Direct preparation of Prussian blue from coal gas). Gas J (Lond) 165: 92-3 Ja 9 '24; Same. Am Gas J 120:522+ Je 7 '24
Iron and chromium on cotton or wool. W. B. Nelson. Am Dyestuff Rep 14:164-5 Mr 9 '25
Prussian-blue pigments. Chemicals (Dyestuffs sec) 17:11-12 Jl 20 '25
Studies in adsorption; influence of ions carrying the same charge as the sol on the coagulation of sols of (i) prussian blue and of (ii) positive ferric hydroxide. S. Ghosh and N. R. Dhar. J Phys Chem 29:659-78 Je '25

PSEUDOBERBERINE
ψ-berberine. R. D. Haworth, W: H: Perkin, jr. and J: Rankin. Chem Soc J 125:1686-1701 Ag '24

PSEUDOEPIBERBERINE
ψ-*epi*berberine. J. S. Buck and W: H: Perkin, jr. Chem Soc J 125:1675-86 Ag '24

PSEUDOPELLETIERINE
Synthesis of ψ-pelletierine. R. C: Menzies and R. Robinson. Chem Soc J 125:2163-8 O '24

PSICAIN
Substitute for cocaine claimed. Chem & Met Eng 32:516 My '25

PSYCHIATRIC nursing, Illinois school of. See Illinois school of psychiatric nursing

PSYCHIATRY. See Mental diseases

PSYCHICAL research
Another mediumistic failure; independent writing produced by substitution of cards. J. M. Bird. il Sci Am 129:390-1+ D '23
Experiences which I cannot explain away. W. F. Prince. il Sci Am 131:384-6 D '24
Margery mediumship. J. M. Bird. il Sci Am 131:88-9+ Ag '24
Margery mediumship. W: McDougall. Sci Am 132:339+ My '25
Our next psychic. J. M. Bird. il Sci Am 131: 28-9+ Jl '24
Our psychic investigation. J. M. Bird. Sci Am 130:86+, 236+; 131:233 F, Ap, O '24
Our psychic investigation; preliminary committee opinions on the "Margery" case. E. E. Free. il Sci Am 131:304 N '24
Psychic adventures at home. J. M. Bird. diag Sci Am 129:164+; 130:20-1 S '23, Ja '24
Psychic investigation. Sci Am 132:29+, 140, 229 Ja-F, Ap '25
Thirty years of psychic research, by Richet. Review by J. M. Bird. Sci Am 130:160+ Mr '24

PSYCHODA
Lime hypochlorite lowers psychoda flies at sewage-works. M. M. Cohn. il Eng N 94:684-5 Ap 23 '25

PSYCHOLOGY
Interrelations of modern physics and modern psychology. L. T. Troland. J Fr Inst 197: 479-504 Ap '24
Interrelations of modern physics and modern psychology; a reply to L. T. Troland. N. Campbell. J Fr Inst 198:817-26 D '24
Psychological work of the National research council. R. M. Yerkes. (Reprint and Circ. Ser. 48) p. 1-7 20c National research council, 1701 Massachusetts av., Washington, D.C. '23
See also Physical research; Physiognomy; Reflexes; Thought and thinking

Industrial applications
Achievements of motion psychology. F. B. Gilbreth and L. M. Gilbreth. Taylor Soc Bul 9:259+ D '24
Basis of industrial psychology. E. Mayo. Taylor Soc Bul 9:249-59 D '24
Business power through psychology. E. J. Swift. 397p Scribner '25
Common sense psychology in management. E. M. Thompson. Am Management R 13:6-7 O '24

PSYCHOLOGY—Industrial applications—*Cont.*
Experimental psychology in personnel problems. C. S. Yoakum. Taylor Soc Bul 10: 154-60; Discussion. 160-3 Je '25
Industrial psychology. H. S. Person. Taylor Soc Bul 9:163-71; Discussion. 158-62 Ag '24; Abstract. Iron Age 113:1352 My 8 '24
Industrial psychology and the production of wealth. H. D. Harrison. 184p Dodd '25
Industrial psychology; its scope and effect on efficiency. C: S. Myers. Paper Tr J 80:61-3 My 7 '25
Industrial psychology of individual differences. D. A. Laird. charts Ind Management 67:71-7 F '24
Place of human sciences in modern organized business. E. B. Twitmyer. Ann Am Acad 115:47-51 S '24
Psychology dons overalls. D. A. Laird. Ind Management 67:204-11 Ap '24
Psychology in business. C. H. Crennan and F. A. Kingsbury, eds. 232p Am. acad. of pol. and soc. sci. '23
Psychology in business relations. A. J. Snow. 562p Shaw '25
Psychology of selling and advertising. E: K. Strong, jr. 461p McGraw-Hill '25
What industrial psychology asks of management. W. V. Bingham. Taylor Soc Bul 9:243-8 D '24
Why workers choose jobs. D. Fryer. Management & Adm 9:519-20 Je '25

See also Ability tests; Advertisements—Copy; Advertising—Psychology

PSYCHOLOGY, Social. See Social psychology

PSYCHROMETRIC charts
Chart for determining the weight of moist air. J: E. Younger. Mech Eng 47:492-4 Je '25; Same. Refrig Eng 11:434-7 Je '25
Heat and humidity control in buildings. E. T. Murphy. il charts Am Soc Heat & V E J 29:565-75 O '23; Abstract. Heat & Ven 21: 65+ Ja '24

PTEROCARPUS
Kino from a South American pterocarpus. Textile Col 47:159 Mr '25

PTYALIN
Mechanism of the action of amino promoters upon enzymes. E. W. Rockwood. Am Chem Soc J 46:1641-5 Jl '24

PUBLIC accountants. See Accountants, Public

PUBLIC address systems. See Loud speaking apparatus

PUBLIC affairs information service
Public affairs information service. Special Lib 15:246 D '24

PUBLIC buildings
Comment on annual report of Secretary Mellon. M. B. Medary, jr. Am Inst Arch J 12: 91-2 F '24
Development of Charleston architecture. S: Lapham, jr. and A. Simons. il diag Arch Forum 39:299-306 D '23
Federal building, Honolulu. il plan Arch Forum 41:21-4 Jl '24
Smaller civil architecture of England; the County sessions house, Warwick. R. W. Ramsdell and H. D. Eberlein. il diags Arch Forum 41:173-6 O '24
United States treasury annex, Washington; views and plans. Arch Forum 43:pl 28-9 Ag '25

See also Baths, Public; Capitol buildings; Charity organization buildings; Community centers; Courthouses; Embassy buildings; Fire houses; Hospitals; Library architecture; Municipal buildings; Municipal centers; Police stations; Public comfort stations; Public works; Schoolhouses; State buildings

PUBLIC comfort stations
Appropriate comfort stations. J. S. Clarke. il Bldg Age 46:84 S '24
How Kansas City provided better sanitation in public places. E. D. Hornbrook. il Dom Eng 110:17-20 F 21 '25
Merchandising comfort stations. Sanitary & Heat Eng 103:319-20 My 15 '25
Modern comfort station in camp grove. il plans Sanitary & Heat Eng 103:211-13 Ap 3 '25
Most beautiful comfort station in the world; Vista house on the Columbia River Highway, Oregon. il diag Dom Eng 111:32-3+ Je 13 '25
Municipal public comfort stations. F. R. King. il diags plans Dom Eng 112:16-18+ S 19 '25
Planning comfort station facilities for a large crowd. il Sanitary & Heat Eng 102:37-9+ Jl 25 '24
Trenton's comfort stations. il Dom Eng 108: 21-2 Ag 9 '24

PUBLIC debts. See Debts, Public

PUBLIC health
Annual address of the president of the American association of industrial physicians and surgeons. C. E. Ford. J Ind Hygiene 5:279-87 D '23
Care of the chronically ill and the dependent. E. C. Potter. Nation's Health 7:659-61 O '25
Century of progress. C: H. Mayo. Spectator 114:9+ Ja 1 '25
Economics of public health. Economist 100: 247-8 F 7 '25
Environmental control in public health program. A. Wolman. Eng N 94:276-8 F 12 '25
Force of publicity in health education. E. C. Bakke. Nation's Health 6:606-7 S '24
Health program for settlement and community center. J. A. Goldberg. Nation's Health 7:243-5+ Ap '25
Health survey of 86 cities. 614p American child health assn., 370 7th av., New York '25
Press-agenting public health as a man's size job. S. P. Moore and L. V. Collins. Nation's Health 6:673-4 O '24
Public health in Australia: past and present. H. Allen. Nation's Health 6:664-6 O '24
Public health in the United States. H. H. Moore. 557p Harper '23
Public health in theory and practice. W: H: Welch. 51p Yale univ. press, New Haven '25
Public health problems in Poland. W. Chodzko. map Nation's Health 6:467-8+ Jl '24
Relation of hardness in water supply to public health. E. S. Chase. Am Water Works Assn J 11:873-8; Discussion. 878-80 Jl '24
Salesmanship in public health. W: C. Rucker. Nation's Health 7:532-3 Ag 15 '25
Sanitation in ancient times and the importance of local organizations in modern health service. W. F. Draper. Eng & Contr (W W) 61:102-3 Ja 9 '24
Seven clinics under one roof keep Kenosha healthy. il Nation's Health 6:709-10 O '24
Le 13e Congrès de l'alliance d'hygiène sociale. L. Stroh. Chimie & Ind 10:965-7 N '23
What scientific medicine has done for public health. O. Dowling. il maps Nation's Health 6:445-7+ Jl '24
Zoning and health. G: C. Whipple. Am Soc C E Pro 51:154-64 F '25

See also Building laws and regulations; Disinfection and disinfectants; Dust removal; Factory sanitation; Health centers; Health officers; Housing; Hygiene, Industrial; Leprosy; Malaria; Milk supply; Mortality; Nuisances; Physical examinations; Plumbing laws and regulations; Public comfort stations; Refuse disposal; Safety devices and measures; Sanitary districts; Sanitary engineering; Sanitation; School hygiene; Sewage disposal; Smoke prevention; Street cleaning; Swimming pools; Ventilation; Water pollution; Water purification; Water supply

Bibliography
Annotated list of best books on public health received for the Municipal reference library during 1924. Munic Ref Lib 10:117-20 S 24 '24; Same. N Y Dept Health n s 13:321-4 O 18 '24

PUBLIC health laws
How to draft new health legislation. J. A. Tobey. Nation's Health 6:823-5+ D '24
Public health legislation in the sixty-eighth Congress. J. A. Tobey. Nation's Health 7:476-7 Jl '25

See also Waterworks—Laws and regulations

PUBLIC health service. See United States—Public health service

PUBLIC lands
History of the public land policies. B: H. Hibbard. 591p [bibliog. p. 573-9] Macmillan '24
Mining industry and the general land office. W: Spry. Min Cong J 10:539-40+ D '24
Public leasehold system in the United States. M. L. Shine. J Land & Pub Util Econ 1: 322-35 Jl '25
Vacant and unappropriated public domain in United States exclusive of national forests. Comm & Fin Chr 121:1186 S 5 '25

See also Mineral lands; Oil lands, Government; Oil reserves (United States navy)

PUBLIC lighting engineers and superintendents, Institution of. See Institution of public lighting engineers and superintendents

PUBLIC markets. See Markets, Public

PUBLIC opinion
Crystallizing public opinion. E: L. Bernays. 218p Boni & Liveright, New York '23

PUBLIC relations directors
What is a public relations director? Ptr Ink 132:57-8 Ag 20 '25

PUBLIC roads, Bureau of. See United States—Public roads, Bureau of

PUBLIC schools
What industry expects of the public school. E. H. Fish. Management & Adm 8:257-8 S '24

See also School laws and legislation

PUBLIC service company of northern Illinois
Common stock. Moody's Inv Serv 17:19 Ja 8 '25

PUBLIC service corporation of New Jersey
Annual report, 15th, for 1923. Comm & Fin Chr 118:1541-9 Mr 29 '24; Abstract. Elec Ry J 63:560-1 Ap 5 '24
Annual report, 16th, for the year ending December 31, 1924. Comm & Fin Chr 120: 1614-23 Mr 28 '25
How Public Service lives up to its name in New Jersey. N. Hamilton. charts Forbes 17: 23-5+ O 15 '25
$940,000 improvement by Public service railway. Elec Ry J 65:596-8 Ap 11 '25
Public service corporation of New Jersey. P. W. Garrett. map Elec W 84:337-9 Ag 16 '24
Public service corporation of New Jersey stock. Moody's Inv Serv 17:171 My 21 '25

Library

Public service corporation of New Jersey. A. C. Mitchill. Special Lib 16:279-81 O '25

PUBLIC service corporations. See Public utilities

PUBLIC service electric and gas company of New Jersey
Merger of electric and gas subsidiaries approved. Comm & Fin Chr 118:2705-6 My 31 '24
Miller street automatic substation of the Public service electric & gas co., of New Jersey. N. L. Pollard. il diags plans Gen Elec R 28:358-63 Je '25
New Jersey company has big program of construction on foot. Pub Serv Management 38:151-2 My '25

PUBLIC service electric company [now Public service electric and gas company]
Relation of a public utility to the business cycle. H. B. Vanderblue and W: L. Crum. Harvard Business R 2:409-20; 3:8-19 Jl, O '24

PUBLIC service railway of New Jersey
Facts about New Jersey. J: W. Colton. Aera 12:725-9 D '23
Jersey plan sanctioned; commission approves readjustment terms. Elec Ry J 63:869 My 31 '24
More passengers but less revenue with five-cent fare. il Elec Ry J 62:950 D 1 '23
Public service railway has 92 per cent one-man operation. il Elec Ry J 65:363-5 Mr 7 '25

PUBLIC speaking
Every one knows us now; training employees in public speaking. S. Perry. il System 48: 178-9 Ag '25
I am going to ask Mr Smith to say a few words. il System 47:329+ Mr '25
Practical public speaking. B. Lyon. 436p Lothrop, Lee and Shepard co., Boston '25
Public speaking for business men. W: G. Hoffman. 300p McGraw-Hill '23
Public speaking for business men. S. F. Wicks. 199p Stokes
Putting it across. G: E. Brooks. Prof Eng 10:12-17 Ap '25
When you are speaker of the evening. G. P. Knapp. Burroughs Clearing House 8:34+ Ja '24
Work of public speaking committee of N.E. L.A. W. S. Vivian. Pub Serv Management 38:169-70 Je '25

PUBLIC squares. See Squares (cities)

PUBLIC utilities
Call of the public utilities to bright young men. S: Insull. Aera 13:1814-23 Je '25
Commissioners' committee on public ownership and operation reports private development of utilities best for the public. H. H. Hannah. N E L A Bul 11:67-70 F '24
Co-operation among public utility companies. J. G. Mitchell. Am Gas J 123:74+ Jl 25 '25
Influence of zoning on the design of public utilities; a symposium. P. Hansen and others. Am Soc C E Pro 51:219-61 F '25; Discussion. 51:447-55 Mr '25
Meaning of public utility—a sociological interpretation. M. G. Glaeser. J Land & Pub Util Econ 1:176-88 Ap '25
Mutual rights and duties of utilities on the highways. D: F. Simpson. Elec W 83:1091-5 My 24 '24
Nationalization of utilities. T. O. Kennedy. Gas Age 55:645 My 2 '25
Public activities of utility men. P. S. Arkwright. Am Gas J 120:499-500+ My 31 '24
Public and its utilities. W: G. Raymond. 346p Wiley '25
Public utilities. R. E. Heilman. 125p Pub. serv. co of northern Illinois, Chicago '23
Public utilities in modern life. S: Insull. 426p Samuel Insull, 72 W. Adams st., Chicago '24
Public utilities—our business. E. E. Armstrong. Gas Age 54:170+ Ag 2 '24
La responsabilité des entreprises de distribution d'eau, de gaz, d'électricité; règles de fond. A. Mestre. Génie Civil 85:555-6 D 13 '24
Utilities and their part in the industrial drama. F. W. Parsons. Gas Age 53:429-30 Ap 5 '24
Utility problems. J: J. O'Brien. Elec W 86: 161-2 Jl 25 '25
Young men and the utility business; its main characteristics and its opportunities. S. Insull. Am Gas J 123:260+ S 26 '25

See also Corporation law; Corporations; Depreciation; Electric railroads; Electric utilities; Express companies; Gas companies; Government ownership; Motor bus lines; Municipal ownership; Public utilities commissions; Railroads; Railroads and state; Street railroads; Telegraph; Telephone; Water companies; Waterworks; *also* Illinois committee on public utility informa-

PUBLIC utilities—*Continued*

tion; Institute for research in land economics and public utilities

For technical and non-technical problems arising under State public service commission regulations, consult Public Utilities Reports published fortnightly by Public Utilities Reports, Inc., Rochester, N.Y.

Accounting

Accounting for operating expense and depreciation. Elec Ry J 62:979-80 D 8 '23

Accounting in relation to state regulation. G: C. Mathews. N E L A Bul 11:514-19 Ag '24

Accounting of municipal public utilities. A. Munn. Munic Eng 66:40-1 Ja '24

Fixed capital accounting. J. G. Hawkins. J Elec 54:282-4 Ap 15 '25

Fixed capital records. C. M. Breitinger. N E L A Bul 12:729-33 N '25

Interest during construction in public utility accounting. J: H. Bickley. J Land & Pub Util Econ 1:414-24 O '25

Mechanical aids in accounting. F. A. Brine. Am Gas J 121:738-40 Ag 9 '24

Report of sub-committee on security holders records and customer and employee partnership in public utilities. Am Gas Assn Accounting sec v 6:361-82 '24; Excerpt. Gas Age 54:513-16 O 11 '24; Discussion. Am Gas Assn Accounting sec v 6:445-53 '24

Treatment of depreciation by public utilities. L. Harr. Gas Age 55:481-2 Ap 4 '25

Uniform accounting systems advocated by utilities commissioners. H. T. Scovill. J Land & Pub Util Econ 1:276-91 Jl '25

Unit plan of accounting for public utilities. Gas Age 55:375-6+ Mr 14 '25

See also Electric utilities—Accounting; Gas companies—Accounting; Railroads—Accounting

Advertising

Activities at the Public service company of Colorado. J. B. Dillon. Am Gas J 119:679+ D 29 '23

Advertising as an item of operating expenses. J: Simpson. Gas Age 54:287-8 Ag 30 '24

Advertising vital to public utility. Pub Serv Management 37:87-8 S '24

Advertising's work in the public utility field. W: H. Hodge. Gas Age 55:753 My 23 '25

Æsop's fables carry message to the public; Oklahoma gas & electric company's expedient. Elec W 84:415-17 Ag 30 '24

Aesop's fables save a public utility. C. R. Winters. Ptr Ink 125:70+ D 13 '23

Benefits of public utility advertising to the consumer. M. J. Insull. Am Gas J 123: 112-13+ Ag 8 '25

Can advertising justify its costs by results? E. P. Young. Gas Age 55:787-8+ My 30 '25; Same. N E L A Bul 12:388-90 Je '25; Abstract. Elec W 86:23-4 Jl 4 '25

First open house week goes big in Michigan. A. Fischer. Pub Serv Management 37:183-4 D '24

Frontiers and friendship. A. Fischer. N E L A Bul 11:213-15 Ap '24

Getting the utilities' story across to the public. P. L. Thomson. Elec W 83:788 Ap 19 '24

How a customer ownership campaign is conducted. F. L. Blanchard. Ptr Ink 129:175+ O 9 '24

How and why advertising cuts utility selling prices. G. A. Nichols. Ptr Ink 133:105-6+ O 8 '25

How to make and spend advertising appropriations. Pub Serv Management 38:174+ Je '25

Is our growth outrunning public understanding? G: McQuaid. Gas Age 56:163+ Ag 1 '25

Life stories of heads of public utility information bureaus. L. St Clair. Aera 14:96-103 Ag '25

May a public utility advertise? Gas Age 54: 236+ Ag 16 '24

Motion picture—a medium for utility publicity. G: J. Kelly. il J Elec 53:393-5 D 1 '24; Same. N E L A Bul 12:25-7 Ja '25

New but tried publicity agent; the workings of a state public utilities information committee. J. Carmichael. Am Gas J 119:651-3+ D 22 '23

Open house week; a plan for public utilities. Am Gas J 121:903+ O 4 '24

Personal element in public utility advertising; abstracts. E. Boys. Electrician 93:101 Jl 25 '24; Elec R (Lond) 95:194 Ag 1 '24

Public utility advertising. W. H. Hodge. N E L A Bul 12:296-9 My '25; Same cond. Ptr Ink 130:69-70+ Mr 19 '25; Same cond. Gas Age 55:466+ Mr 28 '25

Right of a public utility to advertise. L. Ormerod. Am Gas Assn Publicity & Advertising sec v 6:703-5 '24; Same. Gas Age 54: 613-14 O 25 '24; Same. Am Gas J 121:1109+ O 25 '24; Discussion. Am Gas Assn Publicity & Advertising sec v 6:705-19 '24

Right of public utilities to advertise upheld by commission. Ptr Ink 128:36 Ag 14 '24

Sales story strikingly told. Elec Ry J 66:157-8 Ag 1 '25

Setting a stock sales record. J: T. Bartlett. J Elec 52:121-3 F 15 '24

Standards of practice for utility advertising. Elec W 83:147 Ja 19 '24

State committee work and publicity and advertising effort for gas companies. Am Gas Assn Publicity & Advertising sec v 5:851-63 '23

Two per cent for advertising; an interview with Britton I. Budd. G. A. Nichols. Aera 12:911-15 Ja '24; Same. Ptr Ink M 7:34-5+ D '23

Utilities to spend eleven million on advertising. W. P. Strandborg. Gas Age 53:823-6 Je 14 '24

Utility advertising. J: H. Hartog. Am Gas J 121:827 S 6 '24

Utility advertising and financing. J. Carmichael. Pub Serv Management 37:190-1 D '24

See also Electric utilities—Advertising; Railroads—Advertising; Street railroads—Advertising; Telephone companies—Advertising; Water companies—Advertising

Customer ownership

See Public utilities—Securities

Deposit requirements

Are deposits demanded where water is furnished by meter? if so, how much and does the company or department pay interest? Am Water Works Assn J 11:177-90 Ja '24; Excerpts. Eng & Contr (W W) 61:343-6 F 13 '24

Customers' deposits not advance payment. Elec W 83:243 F 2 '24

Meter deposits—interest on deposits and collections and cut-offs. C. K. Fletcher. Gas Age 53:812+ Je 7 '24

Where cash deposits are required for payment of bills. I. R. Jones. Pub Serv Management 39:40 Ag '25

Employees

Better public service. H. A. Wagner. Am Gas J 120:3-4 Ja 5 '24

Educating the present employe. B. J. Mullaney. Pub Serv Management 39:136-7 N '25

Employees' relations with the public. G: L. Myers. N E L A Bul 11:566-7 S '24

Judicial status of arbitration of public utility labor disputes. E. W. Morehouse. J Land & Pub Util Econ 1:375-9 Jl '25

Let us train public-utility employees in economics. N. C. Miller. Elec J 21:462-3 O '24

Milwaukee electric railway and light company. E. W. Miller. il Nation's Health 6: 24-5+ Ja '24

Plea for public utility courses in colleges. R. E. Heilman. N E L A Bul 12:23-4 Ja '25

Public utility employee. A. W. Robertson. Am Gas J 120:568+ Je 21 '24

Securing and retaining public favor. J. F. Owens. diag Elec W 85:1175-8 Je 6 '25

Selling the company to its employees. P. W. Herring. Am Gas J 123:200+ S 5 '25

PUBLIC utilities—Employees—*Continued*

Something new on public relations. M. M. Smith. Pub Serv Management 37:118-19 O '24

Trained employees for public utility service. A. Williams. Gas Age 54:876+ D 20 '24; Same. N E L A Bul 12:19-21 Ja '25; Excerpts. Am Gas J 122:23-4+ Ja 10 '25

Finance

Big growth in Michigan continues. Pub Serv Management 38:57-8 F '25

Billion dollar a year want. F. S. Burroughs. Am Bankers Assn J 17:154-6 S '24

Current earnings statements of public utilities and rails. Annalist 24:582 D 1 '24

Development of public utilities; holding companies likened to British investment trusts. S: Insull. Comm & Fin Chr 120:2104-6 Ap 25 '25

Economics of public utilities. L. R. Nash. 413p McGraw-Hill '25

Financing of public utilities. W. H. Onken, jr. N E L A Bul 11:203-9 Ap '23

Financing public utilities. W. W. Bodine. Am Gas J 122:92+ Ja 31 '25

Financing the big problem. F. E. Bohn. Pub Serv Management 36:22-4 Ja '24

Gross and net earnings. Published in weekly numbers of Commercial and financial chronicle

Importance of holding companies in the financing and supervision of utility companies. G: T. Bishop. N E L A Bul 12:694-6 N '25; Same cond. Am Gas J 123:677+ D 26 '25; Same cond. Gas Age 56:891-2 D 19 '25

Improving utilities' financial structure. R. S. Child. Elec W 85:439-40 F 21 '25

Ohio utilities raise $110,000,000 in 1923 to keep up with demands for their services. Pub Serv Management 36:61 F '24

Prices in purchases of public utilities. Bradstreet's 53:723 N 7 '25

Public utility compared with railway operation. C. H. Westerbrook. Ry Age 79:74 Jl 11 '25

Public utility compendium of the Commercial & financial chronicle [formerly Electric railway section]. Comm & Fin Chr 119:1-180 sec 2 N 1 '24 [issued twice a year on the first Saturday in May and November]

Public utility field; third annual survey. Moody's Inv Serv 16:89-95, F 28 '24

Public utility financing, 1919-1925. H. B. Dorau. charts J Land & Pub Util Econ 1: 305-21 Jl '25

$3,700,000 a day for public services. Pub Serv Management 38:25 Ja '25

See also Electric railroads—Finance; Electric utilities—Finance; Electric utilities—Securities; Gas companies—Finance; Public utilities—Rates; Public utilities—Securities; Railroads—Finance; Waterworks—Finance; *also* names of public utilities, e.g. Public service corporation of New Jersey

Franchises

Advantages of the indeterminate permit in comparison with term franchises. J: A. Laing. N E L A Bul 11:480-3 Ag '24; Same. J Elec 53:202-4 S 15 '24

Analysis of the terminable permit. R. E. Heilman. N E L A Bul 12:705 N '25

Better utility service comes when franchise evil goes. W: M. Wherry. Forbes 16:462+ Jl 1 '25

Indeterminate permit for public utilities. Am Gas J 120:558 Je 14 '24

Renewal of Denver utility's franchise to be submitted to voters in May. J Elec 54:294 Ap 15 '25

See also Street railroads—Franchises

Grading

Grading utilities on conformity to service rules. C. B. Hayden and others. U S Bur Stand misc pub 58:7-28 '24

Law

L'état actuel de la théorie de l'imprévision dans les concessions de distribution (eau, gaz, électricité, etc.). A. Mestre. Génie Civil 86:15-17 Ja 3 '25

New municipal ownership bill introduced in Albany. D. Holbrook. Am Gas J 120:218+ Mr 8 '24

Public utility law in New Jersey. T: Brown. 563p MacCrellish & Quigley co., Trenton, N.J. '25

Recent court decisions. Published in weekly numbers of Electrical world

Report of a special committee on uniform regulatory laws. 307p National association of railway and utilities commissioners, New York '23

La théorie de l'imprévision dans les concessions de services publics. A. Mestre. Génie Civil 87:192-4 Ag 29 '25

Treatise on the law of public utilities, including motor vehicle transportation. O. L. Pond. 3d ed., rev. and enl. 1065p Bobbs '25

See also Electric utilities—Law; Eminent domain; Motor bus lines—Laws and regulations; Public utilities—Regulation; Railroad law

Libraries

How the special library serves public utility companies. Special Lib 16:277-88 O '25

Management

Advantages of large scale operations in the public utility industry. J. J. O'Brien. Pub Serv Management 37:189 D '24

Creed of good management. Elec W 83:624-5 Mr 29 '24

Diplomacy in management of municipal utilities. J. W. Hockaday. Eng & Contr (W W) 62:377-8 Ag 13 '24

Engineering rescued municipal utilities; Bellefontaine, Ohio, light and water plants; with cost tables. il Power 62:250-2 Ag 18 '25

Public utilities need commercial men with vision. E. W. Lloyd. Elec W 86:557-8 S 19 '25

Public utility management under state regulation. W: L. Ransom. Aera 14:245-51 S '25; Same cond. Elec Ry J 66:20-1 Jl 4 '25

Rewarding efficiency in utility management. E. E. Bullard. Elec Ry J 66:57 Jl 11 '25

See also Electric utilities—Management; Gas companies—Management; Railroads—Management; Waterworks—Management

Public relations

Alibi peddler, or friend maker. C. Cope. N E L A Bul 12:661-4 O '25

Better business women. P. W. Evans. il Pub Serv Management 36:173-4 Je '24

Brief history of the Public service speakers' bureau in Illinois. H. M. Lytle. N E L A Bul 11:372-5+ Je '24

Building good will. H. T. East. Pub Serv Management 39:117-18 O '25

Building good will by the salesmen. H. T. Sands. Am Gas J 122:292+ Ap 4 '25

Building sound public opinion utility's biggest job. P. L. Thomson. Pub Serv Management 37:110-11 O '24

Buying good will by education and advertising. K. Clevenger. Gas Age 55:687-8+ My 9 '25; Excerpts. Am Gas J 122:550+ Je 27 '25

Code of ethics for utility men. Elec W 84: 1010 N 8 '24

Commercial department and public relations. M. S. Sloan. N E L A Bul 12:213-15 Ap '25; Same. Gas Age 56:59-60+ Jl 11 '25

Co-operation as applied to the operation of public utilities. W: N. Ransom. Aera 13: 736-40 N '24

Cooperative vs. competitive advertising. P. L. Thomson. Pub Serv Management 37:20-2 Jl '24

Educating grade and high school pupils in public utility subjects. F. W. Fisher. Elec W 83:1290-2 Je 21 '24

Educating the public. L. Grant. Elec Ry J 63:546-7 Ap 5 '24

PUBLIC utilities—Public relations—*Continued*

For good public relations the proper study is man. A. W. Robertson. Pub Serv Management 39:16 Jl '25

Fostering the family spirit among utility customer-owners. il J Elec 52:360-1 My 15 '24

Friendlyizing the public. E. F. Wickwire. Elec Ry J 63:701-3 My 3 '24

Good public relations, our preventive medicine. H. T. Sands. N E L A Bul 11:477-9 Ag '24

Great desire of a public utility. P. L. Thomson. Ptr Ink 128:117-18 Jl 17 '24

How a public utility sold a city successfully. N. C. McLoud. Gas Age 54:131-2 Jl 26 '24

How sound public relations between public utilities and communities can best be developed and maintained. H. A. Kleinman. Forbes 14:315-18 Je 7 '24

How sound public relations between public utilities and communities can best be developed and maintained. P. C. Rawson. N E L A Bul 11:352-6 Je '24

How to secure better public relations. E. C. Hathaway. Elec Ry J 63:139-40 Ja 26 '24

How women can help promote better public relations for utilities. I. Devie. Am Gas J 121:761-2 Ag 16 '24

Interpreting big business to the public. M. J. Insull. Elec W 86:261-2 Ag 8 '25

Interrelation of industrial relations and public relations. B. J. Mullaney. Am Management R 14:45-6 F '25

Invisible exchange of public opinion. R. R. Updegraff. Forbes 15:827-9 Ap 1 '25

It pays to study the human element. E. L. Milliken. Elec W 83:331-2 F 16 '24

Manager and public relations. A. T. Early. il Am Gas J 122:415-16+ My 16 '25

Mutual benefits of cooperation between community and utility. C. L. Campbell. N E L A Bul 11:171-3 Mr '24

Necessity for monopolistic nature of public utilities and two outstanding problems facing the electrical industry. M. J. Insull. N E L A Bul 10:707-11 D '23

Newspaper contact. J. Carmichael. Am Gas J 123:507+ O 31 '25

On public speaking. E. P. Davis. N E L A Bul 12:176-7 Mr '25; Same. Gas Age 55:807 Je 6 '25

Public must be served—but it also must be told. N. W. Brockett. Gas Age 56:303-4 Ag 29 '25; Same. Am Gas J 123:246+ S 19 '25; Same. N E L A Bul 12:585-6 S '25

Public relations. J: F. Weedon. Am Gas J 121:875-6+ S 27 '24

Public relations and the executive. F. R. Coats. Am Gas J 119:528-9+ N 10 '23

Public relations—antidote or panacea? H. T. Sands. N E L A Bul 11:48-51 Ja '24

Public relations foremost utility problem. M. J. Insull. Elec W 82:1076-7 N 24 '23

Public relations, the tap root. M. S. Sloan. Pub Serv Management 39:115-16+ O '25; Same cond. Elec W 86:749-50 O 10 '25

Public service speakers' bureaus. H. M. Lytle. Am Gas Assn Publicity & Advertising sec v 6:721-7 '24

Public utility information work. G: McQuaid. Aera 12:1525-9 Ap '24

Public's the boss—please him! M. S. Sloan. Nation's Business 13:49-50 Jl '25

Relation of municipal officers to the utility. W: A. Magee. Elec Ry J 64:620-1 O 11 '24

Relation of utilities to the public. A. G. Patterson. Am Gas Assn General Sessions sec v 6:173-7 '24

Salesmanship in public utility undertakings. F. W. Goodenough. Gas J (Lond) 171:167 Jl 15 '25

Securing and retaining public favor. J. F. Owens. diag Elec W 85:1175-8 Je 6 '25

Serving the public better. J. N. Shannahan. Elec Ry J 65:778-9 My 16 '25

Should a utility promote its community? R. O. Jasperson. Gas Age 54:39-40 Jl 12 '24

Spirit of service. S. J. Magee. Gas Age 53: 406-7 Mr 29 '24

State public utility information bureaus—their functions and activities. G: F. Oxley. N E L A Bul 12:149-56 Mr '25

Stroke of genius; the Westchester lighting company builds good will with an unusual newspaper advertisement. Gas Age 56:641-2 O 31 '25

Success comes our way; booklet form by the Monongahela West Penn public service company of Fairmont, W. Va. Gas Age 53:442+ Ap 5 '24

Tell the people. N. W. Brockett. J Elec 55:330-2 N 1 '25

What are public relations. A. B. Day. Am Gas J 122:123+ F 7 '25

What value satisfaction? P. G. Gossler. Gas Age 56:13-14 Jl 4 '25

Why not establish more public relations departments? H. T. East. Elec W 84:18 Jl 5 '24

Winner of the first prize in Forbes utility contest. P. C. Rawson. Forbes 14:226-8+ My 24 '24

Winner of the 3d prize in Forbes utility contest. K. C. Behr. Forbes 14:433-5 Jl 5 '24

Women and public utilities. M. Fletemeyer. N E L A Bul 12:242-3 Ap '25

Women are part of whole enterprise. Pub Serv Management 39:113-14 O '25

Women help in public relations work. S. Malichi. Gas Age 56:47-8 Jl 11 '25

You and your public utilities. P. L. Thomson. N E L A Bul 11:275-8 My '24

See also Electric railroads—Public relations; Electric utilities—Public relations; Publicity; Railroads—Public relations; Street railroads—Public relations

The Illinois committee on public utility information, 125 South Clark st., Chicago, publishes various pamphlets on the public relations of utilities

Rates

Effective regulation of public utilities. J: Bauer. 381p [bibliog. p. 375-6] Macmillan '25

Franchise provides rates that conform to costs of savings. chart Gas Age 55:741 My 23 '25

Public utility rate-making and regulation in Iowa. (Ext. bul. 103) 138p University of Iowa. Iowa City '24

Rate fundamentals. Am Gas Assn General Sessions sec v 5:246-8 '23

Die rechtsprechung des reichswirtschaftsgerichts über stromlieferungsverträge. P. Kneifel. Elektrotech Zeit 45:649-50 Je 19 '24

Reproduction and investment costs as rate bases. L. R. Nash. Elec W 82:1317-18 D 29 '23; Same. Aera 12:805-9 D '23

Service charge an itemized bill. C. D. Jackson. Pub Serv Management 36:142-3 My '24

Should the orders and findings of regulatory commissions be more specific? F. A. Newton. Pub Serv Management 38:40-1 F '25

Some legal aspects of the rate making problem. W: M. Wherry, jr. Gas Age 55:179-81, 223-4+, 257-8+, 305-6+, 341-3 F 7-Mr 7 '25

Valuation for rate making by commissions. J: Simpson. Gas Age 53:312+ Mr 15 '24

What is a fair return? J: Simpson. Gas Age 54:737-8+ N 22 '24

See also Electric rates; Gas rates; Water rates

Regulation

Answering government ownership propaganda. A. M. Perry. Elec W 84:1206-7 D 6 '24

Arguments for the revocable permit. E: F. McKay. Pub Serv Management 38:80-1 Mr '25

Calls the industry to arms. F. T. Griffith. Elec W 84:683-5 S 27 '24

Case against political ownership. M. H. Aylesworth. J Elec 53:155-9 S 1 '24

Commission regulation indorsed by investment bankers. Elec Ry J 64:741 O 25 '24

Competition is the life of trade. P. Cabot. Harvard Business R 3:385-93 Jl '25; Same. Munic & Co Eng 69:189-95 O '25

PUBLIC utilities—Regulation—*Continued*

Dangers involved in the proposals of Senator La Follette's party. H. Hoover. Comm & Fin Chr 119:1917-19 O 25 '24; Same. Elec Ry J 64:555-8 O 4 '24; Same. Ry Age 77: 593-6 O 4 '24; Same cond. Elec W 84:727-9 O 4 '24; Same cond. Eng N 93:626-7 O 16 '24; Same cond. J Elec 53:289-91 O 15 '24; Excerpts. Ry R 75:515-18 O 4 '24

Engineer selected to address both houses of Illinois legislature. Prof Eng 10:13-14 Je '25

Government ownership stigmatized as failure. B. J. Mullaney. Gas Age 54:81-2 Jl 19 '24

Governor Smith attacks state regulation. Elec Ry J 63:43 Ja 5 '24

Governor Smith reiterates his recommendations for a state power authority. Elec W 85:114 Ja 10 '25; Power 61:79 Ja 13 '25

In regulation city acts as agent of state. Pub Serv Management 37:175 D '24

Pinchot's view of state regulation. Elec W 86:281 Ag 8 '25

Progress or reaction; an explanation of what state regulation means to the utilities. C. D. Jackson. Gas Age 52:595-8 N 10 '23

Public ownership of utility industries. J: A. Laing. Gas Age 52:759-61 D 22 '23; Same. Am Gas J 120:236-7+ Mr 15 '24

Public, the utilities and regulatory agencies. W: D. B. Ainey. N E L A Bul 12:689-90 N '25

Public utility management under state regulation. W: L. Ransom. Aera 14:245-51 S '25; Same cond. Elec Ry J 66:20-1 Jl 4 '25

Public utility regulation. M. L. Cooke, ed. 310p Ronald press '24

Public utility regulation. E. B. Hamilton. Am Gas J 122:512+ Je 13 '25

Public utility regulation in Indiana. Munic & Co Eng 67:72-6 Ag '24

Regulation protects public utility securities. N E L A Bul 12:512-13 Ag '25

Regulations of public utilities. W. Y. Blanning. 353p Soney & Sage co., Newark, N.J. '24

Report of I.B.A. public service securities committee. Comm & Fin Chr 119:1459-60 S 27 '24

Right to perform public service. C. D. Jackson. Am Gas Assn General Sessions sec v 5:60-5 '23

Sales development and its relation to the gas business; some commission decisions. Am Gas Assn General Sessions sec v 5:237-45 '23

Shall public utility service be rendered by regulated monopolies? W. A. Shaw. W Soc E J 29:416-26; Discussion. 426-30 N '24

Some aspects of public utility regulation. T. H. Dillon. Harvard Business R 4:32-9 O '25

State commission regulation of utilities; abstracts. C. D. Jackson. Munic & Co Eng 69: 183-7 O '25; N E L A Bul 12:701-4+ N '25

State versus municipal regulation of public utilities. C: R. Brock. N E L A Bul 12:697-700 N '25

Utility conditions sound; committee on public service securities of Investment bankers association comments on legislative movements. Aera 12:787-97 D '23

Why the public interest requires state rather than federal regulation of the electric public utilities; abstracts. H. Hoover. Elec W 86:815-16 O 17 '25; Power 62:268-9 O 20 '25

See also Electric utilities—Regulation; Gas companies—Regulation; Government regulation of industry; Public utilities—Grading; Public utilities—Rates; Public utilities commissions; Railroads and state; Street railroads—Regulation; Waterworks—Laws and regulations

Securities

Bankers declare public utility securities meet cardinal principles of safety bank investments. N E L A Bul 11:79-82 F '24; Same. Pub Serv Management 36:91-2+ Mr '24

Barometer for financing. L. P. Ayres. Elec W 86:829 O 17 '25

Building a nation of capitalists. A. Williams. Am Ind 26:14-17 Ag '25

Changes in the field of legals. W. A. Lloyd. Am Bankers Assn J 17:689 My '25

Contact with customer shareholders. F. W. Hoover. Pub Serv Management 37:154-5+ N '24

Contacts through customer and employe ownership. C. R. Stull. Pub Serv Management 39:157-8 N '25

Continuing relations with customer owners. S. J. Ballinger. Pub Serv Management 38: 186-7 Je '25; Excerpts. N E L A Bul 12: 386-7 Je '25

Current tendency to sell utility stocks on a speculative rather than an investment basis warned against. S: Insull. Elec W 86:329 Ag 15 '25; Same. Elec Ry J 66:260 Ag 15 '25

Customer ownership. Index p 12-13 N '24

Customer-ownership. D: F. Houston. N E L A Bul 12:131 F '25

Customer ownership. M. J. Insull. Am Gas Assn General Sessions sec v 6:185-91 '24; Excerpts. Gas Age 55:9-10+ Ja 3 '25

Customer-ownership from the standpoint of the utility customer. E. J. Beckett. J Elec 54:43-5 Ja 15 '25

Customer ownership has come to stay. C. L. Lane. Am Gas J 119:612+ D 8 '23

Customer ownership in Doherty family. R. C. Russum. Pub Serv Management 37: 187-8 D '24

Customer ownership in the United States; abstracts. F. L. Blanchard. Am Gas J 121:653-4+ Jl 19 '24; Comm & Fin Chr 119:284-5 Jl 19 '24; Ptr Ink 129:175+ O 9 '24

Customer ownership of public utilities. R. E. Heilman. J Land & Pub Util Econ 1:7-17 Ja '25

Customer ownership on the Pacific. S. E. Skelley. Am Gas J 123:288+ O 3 '25

Customer ownership progress. R. V. Sykes. Forbes 14:236-8 My 24 '24

Customers as business partners. A. E. Wishon. Pub Serv Management 38:185+ Je '25

Development of customer ownership. Elec W 85:1243-4 Je 6 '25

Development of public investment in privately owned utilities. G: C. Tenney. J Elec 52: 481-2+ Je 15 '24

Effect of customer ownership on public relations. W: H. Hodge. Pub Serv Management 38:89-91 Mr '25

Eleven tests of a good utility security. Elec W 86:957 N 7 '25

Equal opportunity through customer ownership. W. H. Hodge. Gas Age 53:171-2 F 9 '24

Extraordinary expansion of public utilities is notable feature of country's progress. N E L A Bul 12:462-4 Jl '25

Fall River gas works company has over-subscription of 2,400 shares in 3 days, its first customer ownership stock sale. Pub Serv Management 38:188-9 Je '25

Financing of public utilities. W. H. Onken, jr. N E L A Bul 11:203-9 Ap '23

Five relatively attractive utility bonds. Moody's Inv Serv 17:163 My 14 '25

General quotations of bonds and stocks. Published in monthly Bank and quotation section of Commercial and financial chronicle

How to tell a sound public utility bond. P. W. Garrett. il Am Bankers Assn J 17:487-9+ F '25

Importance of safeguarding the issue of duplicate securities. T. A. Wallace. N E L A Bul 11:709-10 N '24

Importance of widespread marketing of public utility securities. G: L. Myers. N E L A Bul 10:723-5 D '23; Same. Gas Age 53:225-7 F 23 '24; Same cond. J Elec 51:407-8 D 1 '23

Industrial and public utility securities. maps Comm & Fin Chr 118:130-252 sec 2 My 31 '24 [Issued semi-annually, May and November]

Influence of customer ownership on the financial structure of public utilities. H: P. Bruner. chart J Land & Pub Util Econ 1: 459-68 O '25

Interest charges slightly lower than in 1922. Elec Ry J 63:841 My 31 '24

PUBLIC utilities—Securities—*Continued*

Investment banker and public utilities. F. E. Frothingham. N E L A Bul 12:582-4 S '25

Investment banker's viewpoints. H. V. Bozell. Elec W 86:778-9 O 10 '25

Keeping customer owners interested. S. J. Ballinger. Am Gas J 123:173+ Ag 29 '25; Same abr. Elec W 86:128 Jl 18 '25

Making partners of customers in Colorado. G: W. Bixler. Am Gas J 120:307-8+ Ap 5 '24

Monthly report of public utilities. Published in monthly supplement to Moody's rating books of Moody's investors service

Necessity for monopolistic nature of public utilities. M. J. Insull. N E L A Bul 10:707-11 D '23

New stocks and bonds. Pub Serv Management 36:21+ Ja '24

Now and tomorrow with customer ownership. A. E. Wishon. N E L A Bul 12:235-8 Ap '25

Opportunities for investors. R. V. Sykes. Forbes 14:568-9; 15:728-9; 16:214-15 Ag 1 '24, Mr 1, My 15 '25

Opportunities for investors; utility preferred stocks. E: L. Barnes. Forbes 17:76-7+ N 1 '25

Picking public utility bonds. J: Moody. Forbes 15:401-3+ Ja 1 '25

Picking public utility stocks. J: Moody. Forbes 15:461-3+ Ja 15 '25

Popular ownership of property; its newer forms and social consequences. W: L. Ransom and P. T: Moon, eds. 198p Academy of political science, Columbia univ., New York '25; Excerpts. Nat City Bank p 10-14 Jl '25; Same. Econ W n s 30:42-5 Jl 11 '25; Review. N E L A Bul 12:233-4 Ap '25

Progress of customer ownership. Pub Serv Management 37:27-8 Jl '24

Public utilities mighty servants of civilization. Pub Serv Management 36:187-9 Je '24

Public utility bonds for short term funds. Moody's Inv Serv 17:363 N 5 '25

Public utility evolution. Moody's Inv Serv 17: 209-10 Je 25 '25

Public utility securities an investment for the thrifty. Pub Serv Management 36:157 My '24

Public utility situation. Moody's Inv Serv 17: 333-6 O 8 '25

Public utility "split ups." F. E. Tyng, jr Comm & Fin 13:1989 O 15 '24

Regulation protects public utility securities. N E L A Bul 12:512-13 Ag '25

Report of sub-committee on security holders records and customer and employee partnership in public utilities. Am Gas Assn Accounting sec v 6:361-82 '24; Excerpt. Gas Age 54:513-16 O 11 '24; Discussion. Am Gas Assn Accounting sec v 6:445-53 '24

Responsibilities of customer ownership. R. S. Child. Elec W 85:333 F 7 '25; Same. Elec Ry J 64:967 D 6 '24

Sale of securities to people ideal goal of public utility. T: N. McCarter. Pub Serv Management 36:89-90 Mr '24

Secrets of success in selling securities. P. H. Whiting. Am Gas J 122:356+ Ap 25 '25

Security sales accounting as developed by an independent sales organization. R. W. Waite. Pub Serv Management 39:124-5 O '25

Selling the company to the public. G: L. Myers. Gas Age 54:255-7 Ag 23 '24; Same abr. Pub Serv Management 37:57-9 Ag '24; Same abr. Am Gas J 121:1101-2 O 18 '24

Selling utility securities through the employees. O. E. Wasser. il Am Gas J 121:745-8+ Ag 16 '24

Selling utility stock by and to women. F. Monroe. Am Gas J 122:272+ Mr 28 '25

Some achievements and responsibilities of customer-ownership. E. J. Beckett. chart J Elec 54:594-6 Je 15 '25

Some of the things learned about customer ownership. W: H. Hodge. Pub Serv Management 36:26-7 Ja '24

Special utility debt of Seattle, Washington. Moody's Inv Serv 17:171 My 21 '25

State and the investor; how regulation protects private capital in public utilities. C. Donaldson. Annalist 23:321+, 342+ Mr 10-17 '24

Tests of a public utility bond. J. E: Baker. 55p Payson & Clarke co., 385 Madison av., New York '25

Utility conditions sound; committee on public service securities of Investment bankers association comments on legislative movements. Aera 12:787-97 D '23

Utility securities and trust funds. F. W. Smith. Elec W 85:1241-3 Je 6 '25

When customers are partners. A. E. Wishon. Elec J 22:250-1 Je '25

Why customer ownership benefits the banker. B. C. Cobb. Am Bankers Assn J 16:557-8 Mr '24; Same. Econ W n s 27:436-8 Mr 22 '24; Same. Aera 12:1501-5 Ap '24

Why public utility securities should be included in savings bank investments. M. S. Sloan. N E L A Bul 11:131-3 Mr '24

See also Employees as stockholders; Gas companies—Securities; Street railroads—Securities

Service

Service interests public more than price. J: S. Allen. Elec W 82:1067-9 N 24 '23

Service the cornerstone. Pub Serv Management 37:42-4 Ag '24

Statistics

Public utilities, 1921-1924. Survey of Cur Business 30:178-9 F '24 [continued quarterly]

Stores systems

Public utility storekeeping. K. C. Campbell. Elec Ry J 65:1018-19 Je 27 '25

Taxation

Public utility tax problems. H. D. Simpson. Am Gas J 121:681+ Jl 26 '24; Same. Pub Serv Management 36:171-2 Je '24

Taxation of public service industries—a preliminary report. H. D. Simpson. charts J Land & Pub Util Econ 1:44-70 Ja '25

See also Gas companies—Taxation; Railroads—Taxation; Street railroads—Taxation

Valuation

Condition per cent tables. Iowa State College of Agric and Mechanic Arts Eng Exp Sta Bul 70:1-83 '24

Determining actual cash value of utility properties for assessment purposes. M. Smith. Gas Age 52:611-13 N 17 '23; Same. Am Gas J 119:567-8+ N 24 '23

Discriminatory taxation by undervaluing of the property. J: Simpson. Gas Age 53:163 F 9 '24

Going concern value as found by state commissions. J: Simpson. Gas Age 53:279-80 Mr 8 '24

Interest during construction as an element of cost. W. H. Blood, jr. charts Gas Age 55: 679-81 My 9 '25; Same. Gen Elec R 28:298-301 My '25

Original cost unsatisfactory basis for valuation, says U.S. court. Eng N 92:81 Ja 10 '24

Pennsylvania Superior court makes important valuation decision. Eng N 92:804-5 My 8 '24

Reproduction and investment costs as rate bases. L. R. Nash. Elec W 82:1317-18 D 29 '23; Same. Aera 12:805-9 D '23

Simple method of valuation for rate making. A. F. Lamb. Gas Age 56:211-12 Ag 15 '25

Some aspects of the going-value concept in utility valuation. M. G. Glaeser. J Land & Pub Util Econ 1:435-43 O '25

Theory and practice of public utility valuation. W: H: Maltbie. 201p McGraw-Hill '24

Three recent decisions of the United States Supreme court, upon valuation. L. Metcalf. Am Water Works Assn J 11:1-16 Ja '24; Discussion. H. C. Wolf. 11:487-9 Mr '24

Undepreciated investment as a utility rate base. G: C. Mathews. J Land & Pub Util Econ 1:257-69 Jl '25

Valuation for rate making by commissions. J: Simpson. Gas Age 53:312+ Mr 15 '24

Valuation of public utilities from a banking standpoint. H. A. Danne. Bankers M 111: 247-8 Ag '25

PUBLIC utilities—Valuation—*Continued*
Variations in physical values of public utilities. C. F. Lambert. Eng N 94:768-70 My 7 '25
What is a fair return? J: Simpson. Gas Age 54:737-8+ N 22 '24

See also Depreciation; Electric utilities—Valuation; Gas companies—Valuation of property; Railroads—Valuation; Street railroads—Valuation; Valuation; Waterworks—Valuation

Canada

Public utility compendium of the Commercial & financial chronicle [formerly Electric railway section]. Comm & Fin Chr 119:1-180 sec 2 N 1 '24 [issued twice a year on the first Saturday in May and November]

France

L'état actuel de la thèorie de l'imprèvision dans les concessions de distribution (eau, gaz, électricité, etc.) A. Mestre. Génie Civil 86:15-17 Ja 3 '25

Great Britain

Law relating to public service undertakings. F. N. Keen. 320p P. S. King & son, ltd., London '25

New Jersey

New Jersey board approves rearrangement of utility properties on Atlantic coast. Elec Ry J 63:394 Mr 8 '24
Public utility law in New Jersey. T: Brown. 563p MacCrellish & Quigley co., Trenton, N.J. '25

United States

Getting behind our public utilities. B. C. Cobb. Nation's Business 12:21+ N '24
Public utilities and the law. W: M. Wherry, jr. 337p Writers pub co., inc., New York '25
Public utility compendium of the Commercial & financial chronicle [formerly Electric railway section]. Comm & Fin Chr 119:1-180 sec 2 N 1 '24 [issued twice a year on the first Saturday in May and November]
Public utility progress. Moody's Inv Serv 16: 437-8 D 4 '24
Recent rapid development of public utility enterprises in the United States. Econ W n s 29:833-5 Je 13 '25

Wisconsin

150,000 join Wisconsin public utility ranks in 1923. Gas Age 53:85-6 Ja 19 '24
Operating experience of public utilities in Wisconsin, 1909-1923. H. B. Dorau. J Land & Pub Util Econ 1:247-9 Ap '25

PUBLIC utilities advertising association
Purposes of the Public utilities advertising association. W. H. Hodge. Elec Ry J 64: 663 O 11 '24
Report. W. P. Strandborg. Am Gas Assn Publicity & Advertising sec v 5:870-2 '23
Utility advertising men extend activities. Elec W 86:805 O 17 '25

PUBLIC utilities commissions
Duties of a public service commission. G. Pinchot. Power 62:227-8 Ag 11 '25
Regulation of motor vehicles as common carriers. H: R. Trumbower. Pub Roads 5:16-19 Ag '24; Same. Eng & Contr (R & S) 64: 518-24 S 2 '25; Same. Munic & Co Eng 67: 150-5 S '24; Abstract. Automotive Ind 51: 482-3 S 11 '24
Should the orders and findings of regulatory commissions be more specific? F. A. Newton. Pub Serv Management 38:40-1 F '25

See also National association of railway and utilities commissioners

PUBLIC welfare departments
Professional service and salaries in public welfare departments. P. Klein. Ann Am Acad 113:226-34 My '24

PUBLIC works
Day labor operations in public construction. Eng & Contr (G C) 63:1312-20; 64:149-57 Je 17-Jl 15 '25
Economics as applied to engineering projects. C. A. Morse. Munic & Co Eng 68:108-10, 122-3 F-Mr '25
Educating public opinion as to engineering works. G. H. Radebaugh. il Eng N 92:454-5 Mr 13 '24
Engineers attend public works conference. Boston Soc C E J 11:80-4 F '24
Near half billion for new public works construction. Eng N 93:805+ N 13 '24
Proposed local improvement act revision. Can Eng 46:367-8 Mr 25 '24

See also Assessment; Contracts, Government; Contracts, Letting of; Day labor; Force account system; Irrigation; Municipal engineering; Public buildings; Rivers—Regulation; Roads; *also* subdivision Public works under names of places, e.g. Belgium—Public works; France—Public works; Paris, France—Public works; United States—Public works

Finance

Law specifies life of structures financed by bond issues. Eng N 93:67 Jl 10 '24; Discussion. 93:476 S 18 '24
Missouri towns increase bond issues for waterworks and sewers. C. F. Enloe. Eng N 92: 296 F 14 '24
Municipal finance and improvement policies. H. G. McGee. Eng N 92:230-2 F 7 '24
Public improvement and tax rate. T. W. Barrally. Prof Eng 9:9-12 Je '24; Same. Munic & Co Eng 66:274-81 Je '24

Records

Recording construction in drawings and photographs. Eng & Contr (Bldgs) 61:475 F 27 '24

PUBLIC works, Department of. See United States—Public works, Department of (proposed)

PUBLIC works, roads and transport congress
Congress and exhibition, London, Nov. 22-29. Engineer 136:565-6, 594-5, 618-19, 623-5, 640-2, 644 N 23-D 14 '23; Engineering 116:677-9, 725-6 N 30-D 7 '23

PUBLICITY
Adequacy of present scientific publication facilities. S. P. Moore and L. V. Collins. Nation's Health 6:771-2 N '24
Crystallizing public opinion. E: L. Bernays. 218p Boni & Liveright, New York '23
Educating public opinion as to engineering works. G. H. Radebaugh. il Eng N 92:454-5 Mr 13 '24
Force of publicity in health education. E. C. Bakke. Nation's Health 6:606-7 S '24
Glass pockets in business. D. E. Wheeler. Ptr Ink M 8:52+ Ja '24
Hitting the bull's eye with health publicity. S. P. Moore and L. V. Collins. Nation's Health 6:339, 393-4, 455-6 My-Jl '24
How a committee of citizens can secure support for city planning program. J: Nolen. Munic & Co Eng 66:238-43 My '24
How the need for more schools was sold to McKeesport voters. Sales Management 7: 1885-6 D '24
Informing your public. I. Squire and K. A. Wilson. 156p Association press, 347 Madison ave., New York '24
Inside view of a free publicity plan. Ptr Ink 125:101-2+ N 22 '23
Newspaper contact. J. Carmichael. Am Gas J 123:507+ O 31 '25
Press-agenting public health as a man's size job. S. P. Moore and L. V. Collins. Nation's Health 6:673-4 O '24
Public relations. J: C. Long. 248p McGraw-Hill '24
Publicity as an aid to municipal government. F. D. Stringham. Munic & Co Eng 69:224-6 O '25
Publicity in industrial accounts, with a comparison of English and American methods. A. Lowes-Dickinson. tables Roy Statis Soc J 87:391-419 My '24; Same, without tables. J Account 38:254-74 O '24; Discussion. Roy Statis Soc J 87:420-32 My '24
Take the mystery out of business! G: M. Verity. Ptr Ink 127:73-4+ Je 19 '24

PUBLICITY—*Continued*
What right kind of publicity can do for machine tool industry. E. F. DuBrul. Iron Tr R 76:1187-8 My 7 '25
What's your newspaper for? W. E. Walker. Bankers M 108:236-40 F '24

See also Advertising; Press agents; Public utilities—Public relations; Street railroads—Public relations

PUBLISHERS
British publishers of chemical books. Soc Chem Ind J (Chem & Ind) 43:1177-82 N 28 '24
National publishers association adopts code of ethics. Ptr Ink 126:109 Ja 10 '24
New publisher. R. T. Porte. Inland Ptr 72: 608-10, 774-6 Ja-F '24

PUBLISHING

See also Copyright; Editors; *also* Haldeman-Julius publishing company

Statistics

Census of manufactures, 1921. 53p U S Bur Census '24
Printing and publishing and allied industries. 47p U S Bur Census '25

PUBLISHING buildings
Macmillan building. Arch & Bldg 57:50, pl 122-3 Je '25
New building for the Macmillan company, Fifth Avenue, New York; views and plans. Am Arch 127:pl 157-61 Je 17 '25
Publishing house; student work, Beaux-arts institute of design. Am Arch 125:502-3 My 21 '24

PUDDLING
Picture story on the manufacture of wrought iron and steel pipe; the puddler. il Dom Eng 107:46+ My 17; 34 My 24; 34 My 31 '24

PUDDLING furnaces
Simplicity marks Roe process; double furnace used. J. P. Roe. il Iron Tr R 77:1088-9 O 29 '25

PUEBLO, Colorado

Bridges

Trough-shaped concrete bridge resists flotation. C. A. Bock. il diags map Eng N 95:416-19 S 10 '25

PUEBLO Indians
"Lost City" of Nevada. M. R. Harrington. il map Sci Am 133:14-16 Jl '25

PUELICHER, John Huegin, 1869-
A capitalist unashamed! some extracts from the creed of John H. Puelicher, banker and good citizen. J. B. Morrow. por Nation's Business 12:25-6 Ja '24

PUGET Sound power and light company
Sheriff seizes Puget Sound's property; dispute over street-railway taxes for 1919. Elec W 83:1146 My 31 '24

PULLEY blocks
One-ton electric pulley block. il diags Engineering 119:447-9 Ap 10 '25

PULLEYS
Advantages of large pulleys. N. G. Near. Mach 30:523 Mr '24
Belting and pulleys. G. A. Van Brunt. il Ind Eng 83:59-60 F '25
Change made in pulley drive to eliminate belt pull on shaft bearings. R. A. Kaplan. diags Power 61:67-8 Ja 13 '25
Construction of loose pulley having large oiling and wearing surfaces. H. Humphreys. diags Power 61:541 Ap 7 '25
Design of cone pulley drives. S. Odegaard. diags Am Mach 60:245-7 F 14 '24
Determining the safe speed for wood pulleys. R. A. Cultra. Power 62:215-16 Ag 11 '25
Importance of balancing high-speed pulleys. D. A. Hampson. Mach 30:362 Ja '24
Maintenance: gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 34:56-60+ Ja '25
New Tolhurst friction clutch pulley. Am Dyestuff Rep 12:891-2 D 3 '23
Pulley and shafting problems. N. G. Near. diags Power Pl Eng 28:196 F 1 '24
Rigging for removing a solid pulley. G. M. Phinney. diag Power 62:103 Jl 21 '25
Saving pulley-power with cardboard discs. Sci Am 130:330 My '24
Simple chart for finding pulley sizes to give various speed ratios. Ind Eng 83:352 Jl '25

See also Belting; Shafting

Manufacture

Making patterns for flanged pulleys. M. E. Duggan. diags Mach 30:792 Je '24
Pulley blocks and how they are made; illustrations. Am Mach 60:140-1 Ja 24 '24

Repair

Method of relining and oiling hubs of loose pulleys. diags Power 59:378 Mr 4 '24
Portland cement used in making repair to thirty-six inch pulleys. G. G. McVicker. diags Power 61:67 Ja 13 '25
Quick method of lagging up a metal pulley. diag Ind Eng 83:450-1 S '25

Safety devices and measures

Guard for chain sling pulley. il Nat Safety N 11:40 F '25

PULLMAN, George M.
Give your best—charge a fair price. il System 45:190-1 F '24

PULLMAN company
Annual report for year ended July 31, 1924. Ry Age 77:571 S 27 '24
Annual report, 50th, for fiscal year ending July 31, 1925. Comm & Fin Chr 121:1564 S 26 '25
Discontinuance of surcharge recommended. Ry Age 76:1153-8, 1208-9 My 10-17 '24
Effect of Pullman surcharge on typical railroads during 1923. Ry R 76:400 F 28 '25
Fourteen hundred attend Pullman safety rally. H. Guilbert. Nat Safety N 12:25 S '25
House committee favors surcharge. Ry Age 78:511-13 F 28 '25
Owners' association defends Pullman surcharge. Ry Age 77:682-3 O 18 '24
Pullman company earnings. Survey of Cur Business 37:52 S '24
Pullman rate hearing. Ry Age 77:612-13 O 4 '24
Pullman surcharge found not unreasonable. Ry Age 78:421-3 F 14 '25; Excerpts. Ry R 76:324-5 F 14 '25
Pullman workers slash accidents in May drive. il Nat Safety N 12:35 Jl '25
Senate votes to abolish surcharge. Ry Age 78:471-3 F 21 '25
Surcharge bill finally defeated. Ry Age 78:569-70 Mr 7 '25
Why that Pullman surcharge? E. L. Bevington. Nation's Business 12:48 Ap '24

Employees

Porters and maids, the Pullman company; labor agreement. Monthly Labor R 19:132-3 Jl '24

PULPITS
Building a church pulpit. J. Y. Dunlop. il diags Bldg Age 46:84-6 Ag '24
Pulpit in The Old Peace church near Shiremanstown, Penna., built in 1798; measured drawings by G. C. Sponsler, jr. Am Arch 128:247-8 S 9 '25

PULPSTONES
Artificial pulpstones. W. W. Greenwood. il Tech Assn Pa ser 8:37-40 '25; Same. Paper Tr J 80:169+ F 5 '25; Same. Paper 35:78+ F 12 '25

PULPWOOD. See Wood pulp

PULSICHROMETER
The pulsichrometer. F. A. H. Schepers. Am Cer Soc J (Bul) 7:53-5 F '24
Some data on the pulsichrometer. R. Galbraith. Am Cer Soc J 8:59-61; Discussion. 61-2 Ja '25

PULVERIZATION of metals, Electric. See Electric pulverization of metals

PULVERIZED coal. See Coal, Pulverized

PULVERIZERS
Crushing and grinding. S. G. Ure. il diags Soc Chem Ind J (Chem & Ind) 44:551-9 My 29 '25
Modern pulverizing methods. S. B. Kanowitz. il Chem & Met Eng 32:198-205 F 2 '25
Le pulvériseur Raymond, pour la préparation du charbon pulvérisé. diag Génie Civil 87: 135-6 Ag 8 '25
Pulverized-fuel systems. A. L. Cole. il diags Power 59:940-5 Je 10 '24
Pulverizer developed by Bethlehem steel co. il Chem & Met Eng 32:585-6 Je '25
Pulverizing fertilizer ingredients. L. H. Sturtevant. il Chem & Met Eng 30:193-5 F 4 '24
Raymond system of grinding and air separation. C. S. Messinger. Chem Age (Lond) 12:296-7 Mr 28 '25
Raymond unit impact pulverizer. il Chem & Met Eng 31:352 S 1 '24
Unit pulverizer brought out by Bonnot co. diag Chem & Met Eng 32:650 Jl '25

PUMP rooms
Pittville pump room, Cheltenham, Gloucestershire. R. W. Ramsdell and H. D. Eberlein. il diags Arch Forum 42:239-44 Ap '25

PUMPING
Pneumatic pumping up to date. J: Oliphant. diags Am Water Works Assn J 10:1082-7 N '23
Pumping from wells for irrigation. P. A. Ewing. diags U S Agric Farmers' Bul 1404: 1-27 '24

See also Mine pumping; Petroleum—Pumping; Pumping stations; Pumps; Sewage pumping

Cost

Cutting down cost of pumping; studies of St Louis water department to determine savings effected by mechanical stokers. Eng & Contr (W W) 62:790 O 8 '24
Diesel engine and its overall economy. C. B. Jahnke. N E Water Works Assn J 39:105-34 Je '25; Excerpts. Power Pl Eng 29:535-40 My 15 '25; Power 62:162-4 Ag 4 '25; Discussion. N E Water Works Assn J 39:141-4 Je '25
Diesel engine experience in a pumping plant. L. C. L. Smith. Eng & Contr (W W) 64:564-5 S 9 '25
Diesel engine experience in a pumping plant. L. C. L. Smith. N E Water Works Assn J 39:135-7 Je '25
Diesel engine operated municipal water works. R. V. Cook. Am Water Works Assn J 14:199-225 S '25; Same cond. Eng & Contr (W W) 63:1061-71 My 13 '25
Diesel engine overall economy. C. B. Jahnke. Power Pl Eng 29:535-40 My 15 '25
Electric motors for driving centrifugal water pumps. E. G. Sohlberg. il Chem & Met Eng 30:832-3 My 26 '24
Low head water power installation. E. C. Hurd. il Sibley J 38:228-9 D '24
Operating experiences and economy of a Diesel engine driven pumping station. W. DeW. Vosbury. diags Am Water Works Assn J 12: 381-90 D '24; Same. Eng & Contr (W W) 62: 95-100 Jl 9 '24; Discussion. Am Water Works Assn J 12:390-2 D '24
Pumping by water power, electricity and steam. Pub Works 55:143 My '24
Relative economy standby oil engines. W. S. Lea. Can Eng 46:297-b Mr 4 '24; Same cond. Am Water Works Assn J 12:191-5 O '24; Discussion. Can Eng 46:297b-d Mr 4 '24; Am Water Works Assn J 12:195-9 O '24
Selection of pumping equipment from the standpoint of station economy. F. A. Mazzur. N E Water Works Assn J 37:250-2 S '23; Same. Can Eng 46:328-9 Mr 11 '24; Abstract. Pub Works 54:357-9 N '23
Semi-Diesel engines and full Diesel type for water works. J. B. Trenchard. Am Water Works Assn J 13:299-305 Mr '25; Excerpt. Munic & Co Eng 67:265-6 N '24

Tables, calculations, etc.

Simple method of determining pump slippage. J. F. Pierce. Eng & Contr (W W) 60:1226-7 D 12 '23

PUMPING machinery
Comparison of pumping equipment. R. T. Livingston. Power Pl Eng 28:849-50 Ag 15 '24
Deep bore-hole pump at Gainsborough. il diags Engineer 140:296, 302-3 S 18 '25
Deep well power head is totally enclosed. il Power Pl Eng 29:869-70 Ag 15 '25
Diesel engine as a drive for pumps and compressors. F. I. Kemp. Mech Eng 47:744 S '25
Double-inlet drowned drainage pumps. il diags Engineer 137:52 Ja 11 '24
Dry dock at Congella, Durban. il diags Engineering 119:497-501 Ap 24 '25
Early Corliss pumping engine. Power 58:741-2; 59:303, 573 N 6 '23, F 19, Ap 8 '24
Extension to water works, Brockville, Ont. Can Eng 46:349-50 Mr 18 '24
Irrigation pumping machinery (Gezira scheme), Sudan. R: W. Allen. diags plan Engineering 117:654-6, 685-7 My 16-23 '24; Same cond. Engineer 137:549-50; Discussion. 542 My 16 '24
Large English bored well. F: J: Dixon. diags plan Eng & Contr (W W) 61:347-53 F 13 '24
Marine type triple-expansion pumping engine. diags Engineering 119:477-80 Ap 17 '25
Modern pumping engines in Holland; abstracts. J. C. Dijxhoorn. il diags Engineer 137:506-7 My 9 '24; Engineering 117:446-8 Ap 4 '24; Power 62:12 Jl 7 '25
Modern theory and practice of pumping. N. Swindin. 364p Van Nostrand '24
Modern water works pumping units. F. Johnstone-Taylor. il diags Can Eng 48:265-9, 311-15 Mr 3, 17 '25
Die neuen verbund-pumpmaschinen des Hamburger wasserwerks. R. Schröder. il diags Zeit Ver Deutsch Ing 68:277-83 Mr 22 '24
New pumping unit of Trenton, N.J., water works. il Eng & Contr (W W) 60:1047-8 N 14 '23
Oil engines in the pumping field. F. Johnstone-Taylor. il diag Power Pl Eng 29:999-1001 O 1 '25
Propelling machinery for tankers; cargo pumps. R. W. Morrell. Marine Eng 30:403-7 Jl '25
Recent development in DeLaval pumping equipment. il Eng & Contr (Equip R) 61: 241-3 Ja 30 '24
Relative economy of standby oil engines. W. S. Lea. Can Eng 46:297-b; Discussion. 297b-d Mr 4 '24
Selection of pumping equipment from the standpoint of station economy. F. A. Mazzur. il N E Water Works Assn J 37:242-53 S '23; Same cond. Can Eng 46:327-9 Mr 11 '24; Abstract. Pub Works 54:357-9 N '23; Discussion. N E Water Works Assn J 37: 253-60 S '23
Steam turbine-driven pumps for the Rand water board. il diag Engineering 119:412-13, 420, pl 28 Ap 3 '25
Variety of pumping equipment. il Chem & Met Eng 31:824 N 24 '24

See also Air lifts; Air pumps; Fire engines; Gasoline pumps; Injectors; Pumping stations; Pumps; Vacuum pumps; Water lifts

Failures

Pumping engine accident at Newark, Ohio. il Locomotive 35:130-1 Ja '25

Specifications

Sanitary rules for installing well pumps. Eng N 95:706 O 29 '25; Same. Sanitary & Heat Eng 104:317 N 13 '25

Testing

Duty tests of vertical triple-expansion pumping engines, Milwaukee, Wis. C: A. Cahill. il Mech Eng 47:841-3; Discussion. 843-4 O '25
Test code for reciprocating steam-driven displacement pumps. Mech Eng 47:135-8 F '25

PUMPING machinery, Electric
Application of electrical machinery in water works. F. C. Bolton. Eng & Contr (W W) 62: 68-73 Jl 9 '24

PUMPING machinery, Electric—*Continued*
Centrifugal pump efficiency. il Can Eng 46: 331 Mr 11 '24
Electric irrigation plant at Los Almadenes, Spain. H. Desbarres. Elec W 82:1130 D 1 '23
Electric pumpage at Kansas City, Missouri. A. L. Maillard. Am Water Works Assn J 11:542-7 My '24
Electric pumping in paper mills. R. H. Rogers. Paper Tr J 81:54-5 O 22 '25
Electrical applications to irrigation pumping. R. H. Cates. Am Inst E E J 43:1042-6 N '24; Discussion. 44:418-19 Ap '25
Elektrisch angetriebene kreiselpumpen mit senkrechter welle. F. Lodemann. il diags Zeit Ver Deutsch Ing 69:832-3 Ag 9 '24
Evolution in oil line pumping equipment. W: N. Beadle. il Gen Elec R 28:752-6 N '25
Horizontal sewage pump. il diags Engineering 118:211 Ag 8 '24
How electric motors should be applied to pumping equipment. R. H. Rogers. il Chem & Met Eng 29:928-31 N 19 '23; Same. Eng & Contr (W W) 60:1013-18 N 14 '23; Same. Eng N 91:824-5 N 15 '23; Same. Power 58: 976-9 D 18 '23; Same. Engineer 137:458 Ap 25 '24; Same cond. Power Pl Eng 27:1233-5 D 15 '23
Large turbine pumps for Manchester. il diags Engineer 140:354-5 O 2 '25
Low head pumping with small vertical screw pump. I. H. Smith. il J Elec 53:370 N 15 '24
Modern irrigation system of the Salinas land company. il J Elec 55:252-3 O 1 '25
Modern pumping engines in Holland; abstracts. J. C. Dijxhoorn. il diags Engineer 137:506-7 My 9 '24; Engineering 117:448 Ap 4 '24; Elec R (Lond) 96:75-6 Ja 9 '25
Motor-driven circulating pumps. H. B. Seeley. Elec W 84:689-91 S 27 '24
New dock equipment on the Clyde. il diags plan Engineer 139:233-5, 242, 274-6, 304-6 F 27-Mr 13 '25
Power company diagnoses pump troubles for farmers. il J Elec 52:493 Je 15 '24
Power supply for governor pumps. R. Brown. il Power 59:92-3 Ja 15 '24
Report on electricity operated pumping plants. Ry Age 79:768 O 24 '25
Testing service for agricultural pumping plants; report of Pacific coast electrical association. J Elec 54:410-12 Je 1 '25
Use of constant and variable speed motors for driving water and sewage pumps. L. F. Adams. il diags Am Water Works Assn J 10:959-72 N '23
When are electrically operated pumps economical. F. S. McClintock. Am Water Works Assn J 13:622-9 Je '25; Same abr. Pub Works 56:336-8 S '25

Protection
Pneumatic chamber for motor-driven pumps. H. L. Millner. il Elec W 84:372 Ag 23 '24

PUMPING stations
Air lift pumping plant at Dubuque, Iowa. J. W. McEvoy. Munic & Co Eng 67:263-5 N '24; Same. Am Water Works Assn J 14:23-8 Jl '25
Air lift pumping plant for Southern Pacific co. il plan Eng & Contr (Ry) 62:638-40 S 17 '24
L'alimentation mécanique des biefs supérieurs du versant sud du canal du Rhône au Rhin. C: Dantin. il diags map Génie Civil 86:158-63 F 14 '25; Abstract (Improvement of the Rhine to Rhone canal). Engineer 139:291 Mr 13 '25
Canadian government dry dock at Esquimalt, British Columbia. il diags plan Engineering 119:99-101, pl 6 Ja 23 '25
Diesel engine operated municipal water works. R. V. Cook. Am Water Works Assn J 14: 199-225 S '25; Same cond. Eng & Contr (W W) 63:1061-71 My 13 '25
Diesel engines for water-pumping plants. A. R. McMullin. il Power 58:984-7 D 18 '23
Discussion of reports on pumping station betterments. Am Water Works Assn J 11:295-300 Ja '24
Electric pumping station of the Kennebec water district at Waterville, Maine. A. L. Shaw. il diags plan N E Water Works Assn J 39:32-46 Mr '25
Electricity and water filtration. H. H. Dunn. il Elec W 85:503-5 Mr 7 '25
Elmhurst's oil engine plant. Pub Works 55: 143-4 My '24
Emergency pumping plant saved irrigation crops. H. F. McPhail. il Eng N 93:861 N 27 '24
Fairmount pumping station and heating plant. L. A. Quayle. il diag plan Mech Eng 46:866-72 D '24; Abstract. Power 60:844-7 N 25 '24
Fen pumping station of the Haddenham level commission. il diags plan Engineering 120: 99-102, 161 Jl 24, Ag 7 '25
From coal to water. G: N. Schoonmaker. il Am Water Works Assn J 10:979-91 N '23
High head pumping plant for Simla water supply. il diags (supp) Engineer 139:162, 167 F 6 '25
How a town of 10,000 revamped its waterworks; Monmouth, Ill. H. A. Tolburg. il diag Eng N 94:656-8 Ap 16 '25
Lake Erie water purified for Monroe, Mich. il diags plan Power Pl Eng 29:828-33, 927 Ag 15-S 1 '25
Large savings effected by coal handling plant at Detroit. W. D. Haarer. il Eng & Contr (W W) 62:561-3 S 10 '24
Littleton reservoir of the Metropolitan water board. il diags map Engineering 119:593-6, 627-31, pl 40-4 My 15-22 '25; Engineer 139: 672-5, 682, 705-8, 710 Je 19-26 '25; Eng & Contr (W W) 64:835-44 O 14 '25
Menasha's pumping and lighting plant. J. H. Kuester. il Pub Works 55:85-7 Mr '24
New pumping station at Groveland, N.Y., shows low operating costs. H. W. Machamer. il Ry R 77:354-5 S 5 '25
New pumping station for Chicago. Pub Works 55:333-4 N '24
New pumping stations in the Fen district. il Engineer 139:76 Ja 16 '25
New $3,000,000 filtration plant of Sacramento, Cal. A. Givan. Eng & Contr (W W) 61:89-91 Ja 9 '24
New waterworks for Kingston-upon-Hull. Engineer 139:113 Ja 23 '25
New water works pumping plant for Tully, N. Y. L: Mitchell. Eng & Contr (W W) 61:372-4 F 13 '24
No unnecessary pipe fittings in this pump station. J. H. Edwards. il diags Coal Age 26: 651-4 N 6 '24
Oil-driven pumping plant at Chipstead. Engineer 139:626, 632 Je 5 '25
Operating experiences and economy of a Diesel engine driven pumping station. W. DeW. Vosbury. diags Am Water Works Assn J 12: 381-90 D '24; Same. Eng & Contr (W W) 62:95-100 Jl 9 '24; Discussion. Am Water Works Assn J 12:390-2 D '24
Park Ridge pumping station. W. T. McClenehan. Am Water Works Assn J 11:157-60 Ja '24
Pumping plants; statistics. Pub Works 55: 170-4, 312-13 My, O '24
Pumping station betterment; topical discussion. Am Water Works Assn J 12:301-4 N '24
Pumping station fire protection. A. T. Luce. Eng & Contr (W W) 64:122 Jl 8 '25
Pumping station improvements at York, Pennsylvania. F. G. Cunningham. Eng N 95:135 Jl 23 '25
Pumping 2,200 feet in a single lift. E. F. Irving. il diags Eng & Min J 117:1041-3 Je 28 '24
Railway pumping station working under 335-ft. head. diag Eng N 93:710 O 30 '24
Reconstruction of Oshkosh water-works. J. S. Hartt. il plan Power 60:802-3 N 18 '24
Selection of auxiliaries for steam-operated pumping stations. F. G. Cunningham. Am Water Works Assn J 11:341-57 Mr '24; Excerpt. Eng & Contr (W W) 62:109-12 Jl 9 '24; Discussion. Am Water Works Assn J 11: 705-16; 12:428-38 My. D '24

PUMPING stations—*Continued*
Somerford pumping station, South Staffordshire waterworks company. F: J: Dixon. diags Engineering 117:155-7, 187-9 F 1-8 '24
South Bend's new pumping station. il diags Power Pl Eng 29:270-5 Mr 1 '25
Station de pompage dans la Loire au Pertuiset (Loire). G. Julien-Laferrière. il diags Génie Civil 85:357-60 O 25 '24
Stevens Point pumping station. J. R. Weyher. il Pub Works 55:144-5 My '24
25 k.w. steam generating sets at Littleton pumping station. il diags Engineer 140:471 O 30 '25
Usine hydro-électrique de Belleville (Savoie); station de pompage relevant l'eau dans le lac de la Girotte. C: Dantin. il diags map plans Génie Civil 86:449-53 My 9 '25
Water station and softening plant, Clinton, Illinois. C. R. Knowles. il diags plan Ry R 74:958-62 My 31 '24; Same cond. Ry Age 76: 1309-11 My 31 '24
Water works pumping plant at Guelph, Ont. H. S. Nicklin. il Can Eng 46:267-8 F 26 '24
Water works pumping plants. il Pub Works 55:141-3 My '24
Water works pumping stations; general principles of design. C: B. Burdick. il Am Water Works Assn J 11:358-80 Mr '24
Weather bureau at the pumping station. S. G. Highland. Am Water Works Assn J 13: 647-52 Je '25; Same. Can Eng 46:565-6 My 27 '24; Excerpts. Eng & Contr (W W) 61: 1286-7 Je 11 '24
Western Avenue pumping station. L. D. Gayton. diag W Soc E J 30:235-48 My '25
Why turbine-driven pumps were selected for Fairmount station. L. A. Quayle. diags Power 60:1057-60 D 30 '24

See also Mine pumping; Pumping machinery; Pumps; Sewage pumping; Water supply; Water supply engineering; Waterworks

Costs

Evaluation of pump bids for Chicago's largest station. Eng N 92:1101 Je 26 '24

PUMPS
American machine and foundry rotary pump. il diags Power 62:701 N 3 '25
British Empire exhibition; pumps and pumping machinery. il diags Engineering 117:689-92, 118:2-5, 216-20, pl 1-2 My 30, Jl 4, Ag 15 '24
Choosing auxiliaries for a motorship. il diags Marine R 54:321-4 Ag '24
Combined suction air chamber and strainer. W: A. Davidson. diag plans Power 61:796-7 My 19 '25
Deep-well water pumping. G. B. Mulloy. il Power 61:992-4 Je 23 '25
Emerson steam pump for contractors. il Eng & Contr (G C) 64:182 Jl 15 '25
Hydraulic balance obtained in double suction pump. il Power Pl Eng 29:314-15 Mr 1 '25
Hydraulic pump used to boost steam pressure. A. B. Newell. Power 62:654 O 27 '25
Modern methods of pumping, storing and distributing water. E. L. D. Seymour. il diags Dun's Int R 44:37-41+ Ja '25
New type of continuous rotary pump; Pavic pumps. diags Chem Age (Lond) 11:214 Ag 30 '24
Novel pump of fine performance. il Sci Am 130:336 My '24
100-gallon trailer fire pump at the British Empire exhibition. il diags Engineering 118:147 Jl 25 '24
Power head totally inclosed on deep well pump. il Eng N 95:613 O 8 '25
Pump for rayon fluid. diag Textile World 68: 1873 S 26 '25
Pumping equipment of textile mills. C: L. Hubbard. diags Textile World 68:71+ Jl 4 '25
Rotary versus centrifugal pumps. W: F. Traudt. Power Pl Eng 28:394-5 Ap 1 '24; Discussion. 28:566 My 15 '24
Les services de défense contre l'incendie en France et aux Etats-Unis; l'autopompe de grande puissance construite par la Société Somua. G. Delanghe. il diags Génie Civil 84:489-94 My 24 '24
Slip of a pump. diags Power 62:262 Ag 18 '25
Suction side of the pump. W: V. Fitzgerald. Power 59:462 Mr 18 '24
Suggestions for installing lift and force well pumps. il Dun's Int R 45:66 Jl '25
Use of the air chamber on the pump. W. V. Fitzgerald. Power 60:697-8 O 28 '24
Vacuum chambers for pump do double duty. J. E. Noble. diag Power Pl Eng 29:1063-4 O 15 '25
Water rates and steam consumption of auxiliaries. E. A. Stevens, jr. and H. E. Brelsford. Marine Eng 29:427-30, 492-6, 547-50, 611-16, 676-81; 30:52-4+ Jl-N '24, Ja '25

See also Air lifts; Air pumps; Gas pumps; Gasoline pumps; Humphrey pumps; Hydrautomat; Mine pumps; Oil pumps; Pumping machinery; Pumping stations; Tire pumps; Vacuum pumps; Water lifts

Control

Automatic control for pump circuit. A. P. Sessions. diags Elec W 85:464-5 F 28 '25
Complete automatic control of pumps in waterworks plant. H. S. Lane. il diag Elec W 85:978-9 My 9 '25
Fire-pump controllers made by the Cutler-Hammer manufacturing co. Eng & Min J 119:1027 Je 20 '25; Textile World 67:4011 Je 20 '25
Pressure control switch for booster pumps. R. K. Annis. diag Power 62:103-4 Jl 21 '25
Regulation of pump output. C: L. Hubbard. diags Power 62:367-9 S 8 '25
Westinghouse dead front fire pump controllers. il Eng & Contr (Equip R) 64:729 S 30 '25

Lubrication

Protecting hot-well pumps against flood waters. R. H. Forney. diag Elec W 84:1213 D 6 '24

Manufacture

Machining a Worthington pump at the Harrison plant. S. J. Koshkin. il Am Mach 62: 203-6 Ja 29 '25
Pump-building industry in 1923. Mach 31:349 Ja '25
Pumps made in quantities. P. Dwyer. il diag plan Foundry 52:417-23+ Je 1 '24

Specifications

Outline of tentative specifications for steam pumps. Am Arch 124:sup14+ D 19 '23

Statistics

Manufacture of pumps shows big gain for year 1923. Eng N 93:810 N 13 '24

Testing

Test code for centrifugal and rotary pumps. diags Mech Eng 47:214-18 Mr '25

PUMPS, Asphalt. See Asphalt pumps

PUMPS, Centrifugal
Acid-proof centrifugal pumps. diags Soc Chem Ind J (Chem & Ind) 42:1156 N 30 '23
Advantages of centrifugal pump for coal-mine drainage. G. V. Woody. il Coal Age 24:885-7 D 13 '23
Centrifugal pumps at the British Empire exhibition. il diags Engineering 118:625-7 O 31 '24
Centrifugal pumps at Waterville meet unusual requirements. A. L. Shaw. diags Eng N 94:1020 Je 18 '25
Centrifugal pumps for handling pump and paper stocks at various consistencies. R. W. Pryor, jr. diags Paper Tr J 77:43-5 N 29 '23
Determination of internal leakage in centrifugal pumps. A. F. Sherzer. Eng N 92:1056-8 Je 19 '24
Dredge pump maintenance; comparison of wear of lined and unlined pumps. J. H. Polhemus. il diag Eng & Contr (G C) 63: 1327-30 Je 17 '25
Earle gear and machine co. double suction centrifugal pump. il Iron Age 115:334 Ja 29 '25

PUMPS, Centrifugal—*Continued*
Experimental investigation of the flow of water through rotating cellular wheel; abstract. H. Ortlei. Mech Eng 46:492-3 Ag '24
Features that should be embodied in the design of plunger and centrifugal pumps. il Coal Age 25:11-14 Ja 3 '24
Goyne centrifugal pump using roller bearing on suction end. diag Eng & Min J 120:551 O 3 '25
Handling centrifugal boiler-feed pumps. Power 59:360 Mr 4 '24
How a centrifugal pump was wrecked. F. F. MacWilliams. il Eng & Contr (W W) 64: 566 S 9 '25
Installation problems of a uniflow-engine-driven centrifugal pump. il diag Power 62: 519-21 O 6 '25
Interceptor in suction line serves as centrifugal pump primer. diag Eng N 94:287 F 12 '25
Layne vertical centrifugal pump. il Eng & Contr (Equip R) 63:954 Ap 29 '25
Lining up turbine-driven pumps to kill vibration. il Eng N 91:1076-7 D 27 '23
Modern water works pumping units. F. Johnstone-Taylor. il diags Can Eng 48:265-9, 311-15 Mr 3, 17 '25
Motor-operated centrifugal pumps. B. A. Cornwell. Iron Age 112:1577-8 D 13 '23
Operating centrifugal pumps in combination. R. K. Annis. il diags Power 61:331-3 Mr 3 '25; Same. Eng & Contr (W W) 63:1261-4 Je 10 '25
Operation of centrifugal pumps. J. S. Pillans. Engineer 138:732-3 D 26 '24; Abstract. Power 61:195 F 3 '25
Planning centrifugal pumping installations for maximum efficiency. R. K. Annis. Power 62:46 Jl 14 '25
Rotary versus centrifugal pumps. W: F. Traudt. Power Pl Eng 28:394-5 Ap 1 '24; Discussion. 28:566 My 15 '24
Side-suction centrifugal pumps more efficient for small capacity. R. K. Annis. diags Power 62:451-2 S 22 '25
Some experiences with a steam turbine driven centrifugal pump in the St Louis water department. L. A. Day. il Am Water Works Assn J 11:548-53 My '24; Same cond. Eng N 92:926 My 29 '24; Abstract. Eng & Contr (W W) 62:824-6 O 8 '24
Starting centrifugal pumps without priming. C. H. S. Tupholme. diags Power Pl Eng 29: 946-7 S 15 '25
Suction booster for centrifugal pumps. F. S. Broadhurst. diag N E Water Works Assn J 38:119-21 Je '24
Tracing losses in centrifugal pumps and notes on testing. H. H. Gerbereaux. Sibley J 39: 370-3 O '25
Type "B" DSV pump, made by the Earle gear and machine co. il Chem & Met Eng 32:458 Ap '25; Eng & Contr (W W) 63:787 Ap 10 '25

See also Pumps, Feed water

Bearings

Rubber bearings for centrifugal pumps. il Power Pl Eng 28:626-7 Je 1 '24

Control

Motor-control rheostatic losses for centrifugal pump or fan service. C. H. Chapman. Power 62:249 Ag 18 '25

Lubrication

Improving the lubrication of a vertical pump R. K. Annis. diag Power 61:425 Mr 17 '25
Oil system specially designed for municipal pumping plant. H. R. Cady. il diags Power 60:203-5 Ag 5 '24

Specifications

Notes on centrifugal pump specifications. J: D. Morgan. Power Pl Eng 28:555-9 My 15 '24

Tables, calculations, etc.

Die berechnung von kreiselpumpen. H. G. Bader. diags Zeit Ver Deutsch Ing 68:1145-9 N 1 '24
Berechnung von kreiselpumpen. B. Eck. diags Zeit Ver Deutsch Ing 69:471-4 Ap 11 '25
Centrifugal-pump characteristic curves; abstract. W. E. W. Millington. diags Mech Eng 46:709-10 N '24
Determining pump characteristics. R. T. Livingston. Power Pl Eng 28:1063-5 O 15 '24
Figuring centrifugal pump characteristics from those at known speed. F: C. Evans. Power 59:487-8 Mr 25 '24
Performance-chart for centrifugal pumps. C: Fromm. Power Pl Eng 29:895 S 1 '25
Use of centrifugal pump curves. Power Pl Eng 28:497-9 My 1 '24

Testing

Centrifugal pump efficiency. Can Eng 46:331 Mr 11 '24
Performance of centrifugal pumps when pumping oils. R. L. Daugherty. Mech Eng 47:297 Ap '25

PUMPS, Condenser
Economical operation of condenser pumps. C: E. Colborn. charts Power Pl Eng 28:643-5 Je 15 '24
Synchronous motors for dual-driven circulating pumps. J: W. Anderson. il Elec W 86: 954-5, 1006-7 N 7-14 '25

PUMPS, Feed water
Boiler feed pump explanations and calculations. C: L. Hubbard. diags Power 60:979-81 D 16 '24; Discussion. Power 61:112-13 Ja 20 '25
Coppus turbine driven centrifugal turbo boiler feed pump. il diags Ry Age 78:1483-4 Je 13 '25
Dabeg locomotive boiler feed system. il diags Engineer 140:20 Jl 3 '25
Handling centrifugal boiler-feed pumps. Power 59:360 Mr 4 '24
Kreiselpumpen als speisevorrichtungen für hochdruck-kesselanlagen. G. Weyland. diags Zeit Ver Deutsch Ing 69:324-5 Mr 7 '25
Rupture of pump service fuses operates signal. W. G. Shurgar. diag Elec W 86:322 Ag 15 '25
Selecting boiler feed pumps. C. L. Hubbard. il Power 60:1021-4 D 23 '24
Turbine-driven centrifugal boiler feed pump; Empire exhibition. il diags Engineering 118: 626-7 O 31 '24
Turbine pump for boiler feeding. C. H. S. Tupholme. il diags Power Pl Eng 28:279-81 Mr 1 '24

Control

Automatic control for boiler feed pumps. L. W. Smith and W. C. Plumer. il diag Power Pl Eng 29:598-9 Je 1 '25

PUMPS, Laboratory
Laboratory circulating pump for corrosive vapors used in researches on rare earths. H. C. Kremers. diag Ind & Eng Chem 17: 298-9 Mr '25
Useful laboratory pump. D. H. Cameron. diag Ind & Eng Chem 17:585 Je '25

PUMPS, Vacuum. See Vacuum pumps

PUNCH presses
La Salle Verson inclinable punch press, no. 3-OBI. il Am Mach 62:978 Je 18 '25

PUNCHED cards. See Perforated records

PUNCHING
Drawing tools for automobile side rails. P. Baldus. diags Am Mach 60:949-50 Je 26 '24
Production of perforated metalware. il diags Iron Age 113:701-5 Mr 6 '24

Costs

Cost of sheet steel punchings. F. C. Lawrence. diags Engineer 137:597-8 My 30 '24

PUNCHING machinery
Drop punch for thin material. il Elec Ry J 64:733 O 25 '24
Feeding punch presses automatically. G: S. Thompson. Iron Tr R 75:943-4 O 9 '24
Hand operated table for punching machines. il diags Engineer 136:539 N 16 '23
Hand riveting punch. E. L. Holcomb. diag Mach 30:699 My '24
New machine for punching and cropping angle bars for structural steelwork. Mech Eng 47:294 Ap '25

PUNCHING machinery—*Continued*
Producing one-piece cowls. il Mach 31:802 Je '25
Punch press dies in the making. il Am Mach 63:465 S 17 '25
Punch press tool for graduating brass vernier. F. L. Libgotte. diags Mach 31: 972 Ag '25
Standardizing punch and die parts. E: Heller. diags Am Mach 63:303-7 Ag 20 '25
Using a punch press as a slotter. H: Densmore. il Am Mach 62:548 Ap 2 '25
See also Dies

Accidents
Punch press accidents. il Safety Eng 49:24-7, 77-82 Ja-F '25

Manufacture
Machining heavy steel plates for punch presses. A. L. Greene. il Am Mach 61:970-1 D 18 '24

Safety devices
Designing the punch press die. G: S. Thompson. il diags Nat Safety N 9:9-10 Mr '24; Same abr. Sheet Metal Worker 15:213 Ap 11 '24
Developments in punch press guarding. R. A. Shaw. il Nat Safety N 10:59-60 O '24
Electric control safeguards punch press operation. il Iron Age 113:1434 My 15 '24
Making the punch press safe. W. Scholl. il Sheet Metal Worker 15:496 Jl 18 '24
Pioneer in punch press safety. C. T. Fish. il Nat Safety N 12:37-9 O '25
Preventing power press hazards. R. H. Jennings. Safety Eng 50:47 Jl '25
Pulling the teeth of a dangerous machine. il Sci Am 131:326-7 N '24
Punch press guarding in a jobbing shop. H. R. Sinclair. il Nat Safety N 8:16-17 D '23
Safety device for punch presses. il Iron Age 114:1274 N 13 '24
When the punch press ram descends at Ternstedt. J: M. Sandel. il Nat Safety N 12:5-7 Ag '25

PUNCTATE basophilia
Contribution to the study of punctate basophilia in lead workers. A. Sellers. J Ind Hygiene 7:145-54 Ap '25

PUNCTUATION
And now—the second story comma. E: N. Teall. Inland Ptr 74:251-2 N '24
Bad effects of wrong punctuation. B. W. Williams. Inland Ptr 76:75 O '25
Colons, half-colons, and the dash. E: N. Teall. Inland Ptr 73:890-1 S '24
In praise of punctuation points; verse. A. R. Wells. Inland Ptr 75:235 My '25
Period with a curly tail. E: N. Teall. Inland Ptr 73:724-5 Ag '24
Points on pointing. E: N. Teall. Inland Ptr 74:68-9 O '24
Printer and the period. E: N. Teall. Inland Ptr 73:562-3 Jl '24
Punctuate! J. Walter. Inland Ptr 75:221-3 My '25
See also Quotation marks

PUPIN, Michael Idvorsky, 1858-
Herdsboy ascends scientific heights. S. H. Hawkins. por il Wireless Age 11:24-7 S '24
President-elect of the A.I.E.E. por Am Inst E E J 44:680-1 Je '25; Elec W 85:1066 My 23 '25

PUPIN coils. See Inductance coils

PURCHASING
Beech-nut purchasing system controls all material and supplies. J: Gore. Management & Adm 9:235-40 Mr '25
Business hails the passing of hand-to-mouth buying. J. G. Donley, jr. Forbes 14:647+ S 1 '24
Buyers and purchasing agents responsible for part of the high cost of selling. J. A. Worsham. Ptr Ink 126:17-19 Ja 31 '24
Buying and selling of yarn and cloth. F. C. Porter. Textile Inst J 14:p299-300 D '23
Buying good will with merchandise; Du Pont's purchasing policy. S. S. Santmyers. Comm & Fin 13:950 My 14 '24
Buying on purely price basis often proves expensive in the long run. H. Tipper. Automotive Ind 51:887-8 N 20 '24
Co-ordinating purchasing and production. Management & Adm 7:527-8 My '24
Co-ordinating responsibilities of engineer and purchasing agent. Elec W 84:371-2 Ag 23 '24
Cost-plus basis for a long-time purchase contract. Harvard Business R 2:370-3 Ap '24
Courtesy to salesmen, a good policy for buyers. A. H. Deute. Ptr Ink 131:49-50 Ap 16 '25
Dependence of purchasing upon scientific knowledge. C. E. Devonshire. Ann Am Acad 119:48-52 My '25
Digging dollars out of raw material purchases. H. Tipper. Automotive Ind 51:808-9 N 6 '24
Extreme variety versus standardization. J: H. Van Deventer. Ind Management 67:81-8 F '24
Following up purchase orders. Iron Age 115: 1339 My 7 '25
Follow-up system for purchases. W: J. Hiscox. Mach 31:536-8 Mr '25
Four ideas for the man who buys. System 48: 569-70 N '25
Grave problems in hand-to-mouth buying. S. E. Ward. Annalist 25:643 My 11 '25
Handbook of specifications for commodities purchased out of taxes. A. S. McAllister. Management & Adm 7:315-16 Mr '24
Has the department store merchandising man outlived his usefulness? E. Whitmore. Sales Management 6:261-2, 562+ D '23, F '24
How a buyer can answer: when? how much? what? E: A. Filene. System 44:754-7+ D '23
How a buying calendar can help profits. E: A. Filene. il System 45:184-7+ F '24
How shall the benefits of A.S.T.M. standardization be secured to the small user? T: H. Wiggin. Am Soc T M Pro 24 pt 2:1097-1100 '24; Same. Ry R 75:50-2 Jl 12 '24; Discussion. Am Soc T M Pro 24 pt 2:1101-12 '24
How we get 12 turns a year. C. W. Nash. il Factory 33:329-31+ S '24
How we protect our sources of supply. J. M. McDonald. Sales Management 9:13-14+ Jl 11 '25
Job or shop deliveries. H. A. Call. Sanitary & Heat Eng 104:146-7 S 4 '25
Making hand-to-mouth buying profitable. B. P. Disque. il System 46:415-20+ O '24
Management difficulties in small factories and their solution. H. W. Ross. Cassier's Ind Management 11:377-8 Ag '24
Obtaining equipment and supplies for maintenance. J. E. Housley. il plan Ind Eng 82: 169-73 Ap '24
One master form basis of material buying and control system. W. L. Carver. Automotive Ind 50:806-11 Ap 10 '24
Planning purchases to fit production. Management & Adm 7:194 F '24
Price is only one of the elements involved in profitable buying. H. Tipper. Automotive Ind 51:778-80 O 30 '24
Purchase of materials on specifications. D. Harvey. Ry R 77:240-1+ Ag 15 '25; Excerpts. Automotive Ind 53:108 Jl 16 '25
Purchasing agent says—. System 45:771 Je '24
Purchasing department. Automobile Eng 15: 321-2 O '25
Purchasing, its economic aspects and proper methods. H. B. Twyford. 2d ed. 258p Van Nostrand '24
Purchasing that cuts production costs. Factory 34:776-7 My '25
Reciprocal buying contagious. E. C. Barringer. Iron Tr R 76:685-6+ Mr 12 '25
Reciprocity—the Aimesbury company. Harvard Business R 2:490-6 Jl '24
Reducing waste by scientific buying. P: F. O'Shea. Factory 34:356+ F '25
Relationship of purchasing to inventories. H. N. Stronck. Factory 32:501-3+ Ap '24
Retail buying. N. A. Brisco and J: W. Wingate. 396p Prentice-Hall '25
Science of buying material. P. M. Atkins. Ind Management 67:19-23 Ja '24

PURCHASING—*Continued*
Seven plans that cut our buying expense. F. B. Clark. il System 45:617-19 My '24
Some fine points in the art of buying. E: A. Filene. System 45:317-19+ Mr '24
Spreading purchases among low bidders. Harvard Business R 3:501-5 Jl '25
Steps taken in 65 plants to reduce the material investment. Ind Management 68:213-14 O '24
Successful methods for increasing sales and balancing production; management in Southern furniture plants. C: F. Scribner. Management & Adm 10:145-8 S '25
Taking the guesswork out of business. W: R. Basset. Forbes 14:323-4+ Je 7 '24
What factors are involved in determining machine tool buying policy? H. Tipper. Automotive Ind 51:924-5 N 27 '24
When ordering brass sheet, rod or tube. Iron Age 114:503-4 Ag 28 '24
Why I can buy bargains. E. Dakin. Comm & Fin 13:1075-7 Je 4 '24
Why not discard the double standard in buying and selling? H. Tipper. Automotive Ind 51:833-5 N 13 '24
Why the banks welcome the small order idea. M. A. Traylor. Ptr Ink 132:3-4+ Jl 23 '25
Works ordering and shop requisitioning system. W. S. Findlay. Cassier's Ind Management 12:155-7 F '25

See also Coal purchasing; Electric railroads—Purchasing; Fuel purchasing; Invoices; Merchandizing; Order blanks; Railroads—Purchasing; Retail trade—Stock

PURCHASING, Cooperative
Employees' cooperative buying. Monthly Labor R 19:1380-2 D '24
Financial control of raw materials by buyers and the development of new sources of supply. W: S. Culbertson. Ann Am Acad 112:87-98 Mr '24
Is mass buying becoming an actual menace? more and better advertising will ward it off. Ptr Ink 130:49-50+ Ja 22 '25
Salesmanship needed, co-operative buying notwithstanding. Ptr Ink 133:202+ N 5 '25
Status quo of co-operative buying among farmers. Ptr Ink 131:136+ My 21 '25
Vertical combination and how it reduces distribution costs. W: R. Basset and J. Heywood. chart Ind Management 66:278-80 N '23

PURCHASING, Government
Competency and economy in public expenditures. Ann Am Acad 113:269-305 My '24
Government tests and purchases; how advertisers may properly refer to the army, navy or Bureau of standards. Brick & Clay Rec 66:580-1 Ap 14 '25
Purchasing function of the government. H. C. Smither. Ry Age 76:1644-5 Je 17 '24

PURCHASING, Municipal
Centralized purchasing in city manager cities. R. Forbes. Eng & Contr (W W) 64:587-96 S 9 '25

PURCHASING, State
Conditions which have prompted consideration of state purchase and manufacture of road building materials. B. H. Piepmeier. Good Roads 56:44-6 F '24; Abstract. Eng N 92:149 Ja 24 '24
States purchase and storage as a means of regulating cement supply and price without state manufacture. C. N. Conner. Good Roads 66:76-8+ Mr '24

PURCHASING agents
Evolution of the work of the purchasing agent. P. R. Brennan. Ann Am Acad 119: 53-9 My '25
How does the P.A. get that way? Foundry 53:137-9, 175-7, 217-19 F 15-Mr 15 '25
Is the purchasing agent alive to his industrial and economic opportunities? J: H. VanDeventer. Ind Management 68:47-9 Jl '24
Purchasing agent's job a hard one. T. Trainor. Paper 35:403-4 D 25 '24
Purchasing for a public utility. A. B. Tenney. Am Gas J 122:470+ My 30 '25
Purchasing practices and the purchasing agent. L. F. Boffey. Chem Age 32:425-6 O '24
Purchasing skill builds profits. E. C. Kreutzberg. il Iron Tr R 74:1297-9+ My 15 '24
Qualifications of a purchasing agent. C. T. Yates. Taylor Soc Bul 9:230-2 O '24
Rush orders complicate traffic. J: C. Dinsmore. Foundry 53:654-5 Ag 15 '25
Status of the purchasing agent in a manufacturing organization. chart Harvard Business R 3:234-8 Ja '25
Value of an "open door" policy for purchasing agents. J. A. Worsham. Ptr Ink 127:33-4+ Ap 10 '24
What is wanted of the purchasing agent? J: C. Dinsmore. Foundry 53:553-4 Jl 15 '25

PURCHASING agents, National association of. See National association of purchasing agents

PURCHASING departments
Organizing the purchasing department. C: Herman. Burroughs Clearing House 8:23-4+ Je '24
Purchasing department organization; report. J Elec 54:525-6 Je 1 '25
Purchasing rubber factory materials. India Rubber W 69:363-5 Mr '24

See also Purchasing agents

PURDUE university
Purdue university builds new power plant. il diags plans Power Pl Eng 29:876-83 S 1 '25

Engineering school
Personnel system for a college of engineering. A. A. Potter. Eng N 93:330-1 Ag 28 '24

PURE oil company
Great growth of Pure oil. Pet Age 14:30+ S 15 '24

PURE silk hosiery mills, inc.
Unlawful for a jobber or retailer to pose as a manufacturer. Ptr Ink 129:114+ D 25 '24

PURINA mills, inc., St Louis
My most important sale. G: R. Robinson. Sales Management 8:595-6+ Ap 18 '25

PURPUROGALLIN
Constitution of purpurogallin. R: Willstätter and H. Heiss. Chem Soc J 124 pt 1:1212-13 D '23

PUTNAM, Connecticut

Water supply
Mechanical filtration plant at Putnam. F. O. Stevens. il diags plans map N E Water Works Assn J 38:103-10 Je '24

PUTTY

Specifications
United States government master specification for putty. U S Bur Stand Circ 216:1-9 '25

PYCNOMETER
Densities of certain aqueous potassium chloride solutions as determined with a new pycnometer. H: C. Parker and E. W. Parker. diag J Phys Chem 29:130-7 F '25

PYEATT, J. Samuel, 1874-
President of D. & R. G. W. por Ry Age 78:189-90 Ja 10 '25

PYOCYANINE
Chemical constitution of bacterial pigments; the isolation of pyocyanine and the preparation of its salts. H. McCombie and H. A. Scarborough. Chem Soc J 123:3279-85 D '23

PYRAZOLES
Action of hydroxylamine and of hydrazine on the aryl monothio amides of carbethoxyethylmalonate. D: E. Worrall. Am Chem Soc J 45:3092-5 D '23

PYRAZOLONE
Halogen-substituted 1-arylpyrazolones. F: D. Chattaway and C: R: N. Strouts. Chem Soc J 125:2423-7 N '24
New pyrazolone diazo dyes. Color Tr J 15: 108-9 O '24
New pyrazolone dyestuffs. Color Tr J 15:129; 16:7 N '24, Ja '25

PYRELECTRIC heating
Boosting flame temperatures with the electric arc. G: T. Southgate. il diags Chem & Met Eng 31:16-19 Jl 7 '24

PYREX
English pyrex glassware. G. E. Stephenson. Soc Chem Ind J (Chem & Ind) 44:299-300 Mr 20 '25
Pyrex glass as a material for chemical plant construction. A. E. Marshall. il diags Am Inst Chem Eng Trans v 14:329-40; Discussion. 340-3 '21-'22

PYRIDINE
Attempts to prepare 1-methyl-2-methoxypiperidine; the hydrogenation of certain pyridine derivatives. T. B. Grave. Am Chem Soc J 46:1460-70 Je '24
Decomposition potentials and polarization of certain heavy metallic chlorides dissolved in anhydrous pyridine. R. B. Mason and J. H. Mathews. diags J Phys Chem 29:1379-93 N '25
Dipyridyls from pyridine. C. R. Smith. Am Chem Soc J 46:414-19 F '24
Equilibrium in the systems: zinc chloride-pyridine; and cadmium chloride-pyridine. R. B. Mason and J. H. Mathews. J Phys Chem 29:1178-83 S '25
Fission of the pyridine nucleus during reduction. B. D. Shaw. Chem Soc J 125:1930-4 S '24
Fission of the pyridine nucleus during reduction; the preparation of glutardialdoxime. B. D. Shaw. Chem Soc J 127:215-16 Ja '25
L'humus végétal et son dosage par la pyridine; relations chimiques entre les matières humiques et la houille. M. Piettre. Chimie & Ind 11:880-5 My '24
Ternary system: silver perchlorate, pyridine and water. R. Macy. Am Chem Soc J 47:1031-6 Ap '25

PYRIDOFLUORENE
Pyridofluorene and some of its derivatives. W: H. Mills, W: H. Palmer and M. G. Tomkinson. Chem Soc J 125:2365-70 N '24

PYRIDONE
Amino-4-pyridones. W: H. Crowe. Chem Soc J 127:2028-9 S '25

PYRIMIDINES
New methods of splitting pyrimidines; a study of the mechanism of the decomposition of thymine. O. Baudisch and L. W. Bass. Am Chem Soc J 46:184-9 Ja '24
New methods of splitting pyrimidines; the action of iodine solution on pyrimidines. L. W. Bass and O. Baudisch. Am Chem Soc J 46:181-3 Ja '24
New methods of splitting pyrimidines; the action of oxygen plus ferrous salts on thymine under the influence of light. L. W. Bass. Am Chem Soc J 46:190-2 Ja '24
New methods of splitting pyrimidines; the decomposition of pyrimidines by means of ferrous salts. M. H. Pfaltz and O. Baudisch. Am Chem Soc J 45:2972-80 D '23
Researches on pyrimidines; the discovery of 5-methyl-cytosine in tuberculinic acid, the nucleic acid of the tubercle bacillus. T. B. Johnson and R. D. Coghill. Am Chem Soc J 47:2838-44 N '25

PYRINDOLE
Mechanism of E. Fischer's synthesis of indoles; application of the method to the preparation of a pyrindole derivative. G. M. Robinson and R. Robinson. Chem Soc J 125: 827-40 Ap '24

PYRITE
Oxidation of ceramic wares during firing; a laboratory study of the effect of varying the rate of gas flow and of heating on the decomposition of pyrite in clay. F: G. Jackson. diags Am Cer Soc J 8:534-40 Ag '25
Oxidation products derived from chalcopyrite. R. Blanchard and P. F. Boswell. il diags Econ Geol 20:613-38 N '25

PYRITE burners. See Furnaces, Metallurgical

PYRITES
Cupriferous pyritic deposits, Hitachi mines, Japan. M. Watanabé and W. R. Landwehr. il map Econ Geol 19:434-54 Ag '24
Desulphurisation of iron pyrites. F. C. Thompson and N. Tilling. diag Soc Chem Ind J 43:37-46 F 29 '24
Oxidation of ceramic wares during firing; the decomposition of various compounds of iron with sulphur under simulated kiln conditions. F: G. Jackson. il Am Cer Soc J 7: 223-37 Ap '24
Problem of the cupriferous pyritic deposits. T. Kato. Econ Geol 20:97-100 Ja '25
Pyrites and pyrites burners. P. Parrish. il diags Soc Chem Ind J 44:321-5, 366-70 Jl 10-17 '25
Refraction of X-rays in iron pyrites. R. von Nardroff. Phys R 24:143-51 Ag '24
Sulphur and pyrites. R. F. Bacon. Eng & Min J 119:100-1 Ja 17 '25

See also Chalcopyrite; Marcasite; Pyrrhotite

PYROGALLOL
Absorption of oxygen and liberation of carbon monoxide by alkaline pyrogallol solutions. T: J. Drakeley and H. Nicol. Soc Chem Ind J 44:457-62 S 25 '25

PYROGALLOLBENZEIN
Pyrogallolbenzein and its hydrochloride. W. R. Orndorff and C. Wang. Am Chem Soc J 47: 290-2 Ja '25

PYROMETERS and pyrometry
Bristol high resistance indicating pyrometer. il Ry Mech Eng 99:187 Mr '25
Brown recording pyrometer. il Am Mach 63: 452 S 10 '25; Automotive Ind 53:423 S 10 '25; Brick & Clay Rec 67:480-2 S 29 '25; Elec Ry J 66:410 S 12 '25; Eng & Min J 120:391 S 5 '25; Iron Age 116:616 S 3 '25; Mach 32:69-70 S '25; Power 62:543 O 6 '25; Power Pl Eng 29:977 S 15 '25; Metal Ind 23:426 O '25
Calibrating pyrometers. Foundry 53:608a Ag 1 '25
Classification and application of pyrometers. R. W. Newcomb. il diags Eng Soc W Pa 40:249-67; Discussion. 268-80 O '24
Comparison of English vs. Orton pyrometric cones. S. S. Cole. Am Cer Soc J 8:462-3 Jl '25; Discussion. (Bul) 8:617-19 N '25
Fuel, wages, repair, spoilage, the four directions in which pyrometers brought savings. J. G: Morgan. Factory 35:580+ O '25
Getting the highest return from kiln equipment. J: R. Green. Am Cer Soc J 8: 599-604 S '25
Indicating pyrometer. Chem & Met Eng 31: 589 O 13 '24
Leeds and Northrup potentiometer pyrometer. Gas J (Lond) 170:1023 Je 24 '25
Measurement of high temperatures. diag Am Gas J 120:243-4, 269-70, 291-2 Mr 15-29 '24
Optical pyrometer as a brightness photometer. W. E. Forsythe. J Fr Inst 197:517-25 Ap '24
Optische temperaturmessung in der praxis. A. Fry. il diag Stahl & Eisen 44:1398-1405 N 6 '24
Pyro radiation pyrometer. il diags Engineering 117:493-4 Ap 18 '24; Chem & Met Eng 31: 196-7 Ag 4 '24
Pyrometers in the metal plant. C. L. Simon. il Metal Ind 23:61-2 F '25
Pyrometry of exhaust temperatures of internal combustion engines; abstracts. C: E. Foster. Engineer 139:598 My 29 '25; Power 62:35 Jl 7 '25
Pyrometry—past and present. R. P. Brown. il diags Am Cer Soc J 7:620-5 Ag '24
Republic electric indicating and recording pyrometers. il Chem & Met Eng 31:863 D 1 '24; Coal Age 26:925-6 D 25 '24; Mach 31:321-2 D '24
Republic electric pyrometers. il Eng & Min J 118:795 N 15 '24
Temperature determination of molten metals. R. L. Binney and N. I. Terbille. Metal Ind 22:189-90 My '24
Translation of pyrometric cones to temperatures. Am Cer Soc J (Bul) 7:379-84 O '24
Use of pyrometers in glass works. Chem Age (Lond) 10:219 Mr 1 '24
Use of pyrometers in the clay industry. C. B. Thwing. il Brick & Clay Rec 65:23-5 Jl 8 '24

PYROMETERS and pyrometry—*Continued*
Use of radiation pyrometers on refractory kilns. C: B. Thwing. Am Cer Soc J 8:115-16 F '25
Wilson-Maeulen compensated pyrometers. il Am Mach 63:756 N 5 '25
See also Temperature—Measurement: Thermocouples; Thermometers and thermometry

PYROPHYLLITE
Dehydration temperature of pyrophyllite and sericite. J. L. Stuckey. Am Cer Soc J 7: 735-7 O '24
Pyrophyllite deposits of the Deep River region of North Carolina. J. L. Stuckey. bibliog il map Econ Geol 20:442-63, pl 1-2 Ag '25

PYROPRUF. See Roofing, Bituminous

PYROXENES
Studies in the pyroxene group. A. N. Winchell. bibliog Am J Sci 5th ser 6:504-20 D '23
X-ray diffraction measurements upon the pyroxenes. R. W. G. Wyckoff, H. E. Merwin and H: S. Washington. Am J Sci 5th ser 10:383-97 N '25

PYROXYLIN
All seven coats of new pyroxylin finish applied in two days. H. Chase. Automotive Ind 51: 254-5 Jl 31 '24
Another varnish maker enters field of pyroxylin automobile finishes; the Beckwith-Chandler co. Automotive Ind 51:324-5 Ag 14 '24
Final coat of latest pyroxylin finish gives gloss without polishing. Automotive Ind 51: 526 S 18 '24
Finish failures overcome with pyroxylin enamel. H. C. Mougey. il diags Soc Auto Eng J 17:183-8 Ag '25
How pyroxylin lacquers are manufactured. E. M. Flaherty. Chem Rec Age 23:9-10 Ap 20 '25
New fire hazards developed by use of pyroxylin finishes. Automotive Ind 52:989 Je 4 '25
New pyroxylin base finishing materials. H. B. Fox. il Chemicals 23:6-7 My 25 '25
Nitrocellulose and pyroxylin lacquers. J. B. Wiesel. Chem Age 32:439-42 N '24
Precautions in using pyroxylin finishes. Bus Transportation 4:450 S '25
Pyroxylin enamels finding favor. E. M. Flaherty. Soc Auto Eng J 14:352-3 Mr '24
Pyroxylin finish rules in District of Columbia. Oil Paint & Drug Rep 108:21+ Ag 17 '25
Pyroxylin invades the varnish plant. il Chem & Met Eng 32:747-9 S '25
Pyroxylin refinishing-practice. J. J. Riley. Soc Auto Eng J 17:245-7 S '25; Abstract. Chemicals 23:9 My 25 '25; Discussion. Soc Auto Eng J 17:247-8 S '25
Safety in use of pyroxylin base finishing materials. H. B. Fox. Nat Safety N 11:31-2 My '25
Zapon pyroxylin finishes now ready for use in body production. Automotive Ind 51:121 Jl 10 '24
See also Duco finish; Nitrocellulose

PYROXYLIN coated fabrics
Suggestions regarding some pyroxilin coating materials (lacquers); abstract. H. A. Gardner. Soc Dyers & Col J 40:241 Jl '24
See also Fabrikoid

Testing
How qualities of coated automotive fabrics are determined. E. B. Benger and N. M. Nickowitz. il diags Automotive Ind 49:1262-6, 1306-8 D 20-27 '23

PYRRHOTITE
Antipathy of bornite and pyrrhotite. G. Gilbert. Econ Geol 20:364-70 Je '25

PYRROLE
Action of halogens on pyrrole to give colored solutions. G. E. K. Branch and H. E. H. Branch. Am Chem Soc J 46:2469-74 N '24
Pyrrole from new sources—some uses. J. Michelman. Ind & Eng Chem 17:471-2 My '25

PYRUVIC acid
Tautomerism of the mesoxalic acid and pyruvic acid phenylhydrazones; evidence for the hydrazone structure of the tautomerides. H. R. Stevens and F. W. Ward. Chem Soc J 125:1324-9 Je '24

PYRYLIUM compounds
Synthesis of pyrylium salts of anthocyanidin type. D: D. Pratt and others. Chem Soc J 121:1577-85; 123:745-58; 125:188-207; 127:166-75, 1128-38, 1182-95 Ag '22, Ap '23, Ja '24, Ja, My '25
See also Benzopyrylium; Hydroxybenzopyrylium compounds

PYVURIL
Researches on hydantoins; pyvuril and dipyruvic triureide. D: Davidson. Am Chem Soc J 47:255-9 Ja '25

Q

QUADRATURE theory of economics. See Economics

QUAKER oats company
Packages that satisfy the foreigner. D. P. De Young. il Management & Adm 9:139-42 F '25

QUALITATIVE analysis. See Chemistry, Analytic—Qualitative

QUALITY of products
Adding a product of different quality and price to an established line. Harvard Business R 3:357-61 Ap '25
Four policies on which we built a $10,000,000 business; the Palmolive company. System 47:477-80+ Ap '25
How a fighting brand helped an advertised product. J. V: Richardson. Ptr Ink 128:40 Jl 31 '24
Is it any wonder some salesmen can't sell quality? E. Whitmore. Sales Management 8:811-12 My 30 '25
Lee tire drops 9,000 dealers to increase profits. C: G. Muller. Ptr Ink 129:10+ D 11 '24
Meeting the retailer's argument against quality and high price. R. Cole. Ptr Ink 128:85-6+ S 25 '24
New craftsmanship. R. Dickinson. Ptr Ink 133:89-90+ N 5 '25
Only kind of advertising that pays; first determine consumers needs. F. R. Plumb. System 47:311-15+ Mr '25
Raise the quality of the product without raising the price. Z. G. Simmons. Ptr Ink M 11:21-2+ S '25
Selling fighting brands to shield famous products. Ptr Ink 128:25-6+ Jl 17 '24
Two policies that have saved our business three times. B. E. Bensinger. System 48: 419-23+ O '25
What do your salesmen sell? get dealer right on quality and price question. G. A. Nichols. Ptr Ink M 9:27-8+ D '24
What retailers think about general advertising. G. A. Nichols. Ptr Ink 132:117-18+ S 10 '25
See also Advertisements—Quality appeal; Factory management—Quality control

QUANTITATIVE analysis. See Chemistry, Analytic—Quantitative

QUANTITIES (in production)
Capitalizing the advantages of the small factory. D. S. Cole. Ind Management 70: 40-5, 265-9 Jl, N '25
Control of inventory through the scientific determination of lot sizes. H. S. Owen. Ind Management 70:165-7, 235-9, 289-95 S-N '25 (to be cont)
Distribution a governing influence on production. G. D. Mercer. Taylor Soc Bul 10:111-15 Ap '25
Method of finding minimum-cost quantity in manufacturing. R. C. Davis. Management & Adm 9:353-6 Ap '25

QUANTITIES (in production)—*Continued*
Most economical number of parts to make at one set-up. J: M. Christman. chart Mach 32:182-3 N '25
Practical lot quantity formula. Management & Adm 9:565-6 Je '25; Discussion. G: F. Mellen. 10:155 S '25
Volume production is not synonymous with profit. H. Tipper. Automotive Ind 50:1138-9 My 22 '24
We find out how to speed-up production 50%. E. Lilly. il System 48:546-7 N '25
What is going to happen to the small manufacturing plant? D. S. Cole. Ind Management 70:173-7 S '25

See also Idleness, Industrial

QUANTITY system of estimating
Benefits of quantity surveying. H. N. Mason. Can Eng 48:239-40 F 17 '25
Contractors favor the quantity survey. Am Arch 125:217-18 F 27 '24
Insuring against errors in estimating. Sheet Metal Worker 16:87-8 Mr 13 '25
Plan reading and quantity surveying. C: F. Dingman. 201p McGraw-Hill '24
Preparing quantity surveys. R. L. Reisinger. Bldg Age 46:147-8 D '24
Progress and practice in quantity surveying. R. L. Reisinger. Eng & Contr (Bldgs) 61: 455-60 F 27 '24
Quantity surveying. H. N. Mason. Can Eng 47:375-6 S 30 '24

QUANTITY theory of money. See Money

QUANTUM theory
Absorption of radiation by multiply periodic orbits, and its relation to the correspondence principle and the Rayleigh-Jeans law. J. H. Van Vleck. Phys R 24:330-46 O '24
Action of light on the ferrous ferric iodine iodide equilibrium. E. K. Rideal and E: G. Williams. diag Chem Soc J 127:258-69 Ja '25
Are quanta unidirectional? G. Breit. Phys R 22:313-19 O '23
Certain postulates of the quantum theory. D. N. Mallik. Philos Mag 6th ser 50:381-9 Ag '25
Corpuscular quantum theory of the scattering of polarized X-rays. G. E. M. Jauncey. Phys R 23:313-17 Mr '24
Directed quanta of scattered X-rays. A. H. Compton and A. W. Simon. il diags Phys R 26:289-99 S '25
Discovery and properties of hafnium. G. Hevesy. Chem R 2:2-41 [bibliog. p. 39-41] Ap '25
Duration of molecules in upper quantum states. R: C. Tolman. Phys R 23:693-709 Je '24
Electric forces and quanta. J. H. Jeans. Inst E E J 63:483-9 My '25; Same cond. Engineer 139:181-3 F 13 '25; Abstract. Engineering 119:200-1 F 13 '25
Emission of β- and δ-rays from a metallic film, and the relation to the quantum theory of scattering of X-rays. L. Simons. diags Philos Mag 6th ser 48:250-8 Ag '24
Excitation of forbidden spectral lines. P. D. Foote, T. Takamine and R. L. Chenault. il diag Phys R 26:165-75 Ag '25
Extension of Bohr's correspondence principle to apply to small quantum numbers. P. W. Ketchum. Phys R 24:463-5 N '24
Faraday's magnetic lines as quanta. H. S. Allen. diags Philos Mag 6th ser 48:429-45 S '24
General nature of band spectra. J. W. Nicholson. Philos Mag 6th ser 50:650-62 S '25
General quantum theory of the wave-length of scattered X-rays. A. H. Compton. Phys R 24:168-76 Ag '24
Generalized quantum conditions. O. W. Richardson. Philos Mag 6th ser 46:911-14 N '23
J-phenomena and the quantum-theory of scattering of X-radiation. R. T. Dunbar. diags Philos Mag 6th ser 49:210-36 Ja '25
Light waves or light bullets? A. H. Compton. il diag Sci Am 133:246-7 O '25
Physically degenerate systems and quantum dynamics. J. C. Slater. Phys R 26:419-30 O '25
Principles of quanta simply explained. R. W. Western. Elec R (Lond) 93:883-4, 924-6 D 14-21 '23
Problem of the quantitative formulation of Bohr's correspondence principle. R: C. Tolman. Philos Mag 6th ser 49:130-6 Ja '25
Quantum defect and atomic number. L: A. Turner. Philos Mag 6th ser 48:384-95, 1010-14 S, N '24; Discussion. D. R. Hartree. 49:390-6 F '25
Quantum magnetic tubes in rotation. H. S. Allen. diags Philos Mag 6th ser 49:981-92 My '25
Quantum theory. E. P. Adams. Nat Research Council Bul v 7, pt 3:1-109 N '23
Quantum theory of optical phenomena. J. C. Slater. Phys R 25:395-428 Ap '25
Quantum theory of radiation. N. Bohr, H. A. Kramers and J. C. Slater. Philos Mag 6th ser 47:785-802 My '24
Quantum theory of the impulse radiation. F. W. Bubb. Phys R 24:177-89 Ag '24
Quantum theory of the intensity of the modified band in the Compton effect. G. E. M. Jauncey. diags Phys R 25:723-36 Je '25
Quantum theory of the unmodified spectrum line in the Compton effect. G. E. M. Jauncey. diags Phys R 25:314-21 Mr '25
Quantum theory on the asymmetries in the direction of ejection of photo-electrons. F. W. Bubb. Philos Mag 6th ser 49:824-38 My '25
Rotational specific heat and half quantum numbers. R: C. Tolman. Phys R 22:470-8 N '23
Selection principle: a development based upon the Stokes-Thomson pulse theory. C. N. Wall. Philos Mag 6th ser 48:378-83 S '24
Tentative theory of light quanta. L: de Broglie. Philos Mag 6th ser 47:446-58 F '24
La théorie des quanta au point de vue chimique et thermodynamique. D. Berthelot. Soc Ing Civils Bul 78:440-78 My '25
Les théories modernes relatives à la constitution de la matière. H. Abraham. Soc Ing Civils Bul 78:422-39 My '25
Theory of light-quanta. H. Bateman. Philos Mag 6th ser 46:977-91 N '23
Weak quantization. P. Ehrenfest and R: C. Tolman. Phys R 24:287-95 S '24

See also Radiation

QUARRIES and quarrying
Baby derricks in quarrying. il Eng & Contr (G C) 63:1308-9 Je 17 '25
Concrete pit structure subjected to diverse stresses; provides watertight foundation and inclosure for rock crusher. A. E. Wynn. il diags Eng N 95:762-3 N 5 '25
Domestic tube-mill lining successfully meets foreign competition. W. M. Weigel. il Eng & Min J 118:925-8 D 13 '24
How to avoid waste of explosives. R. N. Van Winkle. Eng & Contr (R & S) 60:507-8 S 5 '23; Same. Can Eng 46:473 Ap 29 '24
Hydraulic stripping. W. D. Armstrong. il Eng & Contr (G C) 64:415-18 Ag 19 '25
Limestone quarrying at Sonora, California. G: J. Young. il Eng & Min J 120:693-5 O 31 '25
Methods and costs of a small quarry blast. diag Eng & Contr (Ry) 62:127-8 Jl 16 '24
Mining and preparing sand and rock. A. W. Allen. il Eng & Min J 117:237-9 F 9 '24
Mining limestone by glory holes in California. G: J. Young. il diags Eng & Min J 120:249-53 Ag 15 '25
Problem of the obelisk. il Sci Am 131:15 Jl '24
Quarrying limestone by glory holes. G: J. Young. il diags Eng & Min J 120:13-16 Jl 4 '25
Quarrying stone for LaCrosse county highways. F. H. A. Nye, il Pub Works 54:393-4 D '23
Some fundamentals of big blast hole drilling for quarry work. M. B. Garber. Concrete 24:sup37-40 Mr '24
Technical progress in slate mining. O. Bowles. il Eng & Min J 117:605-9 Ap 12 '24

QUARRIES and quarrying—*Continued*
Underground quarrying. R. H. Summer. diags Concrete (cement mill sec) 27:64-6 O '25
Winning limestone. G: J. Young. il diags Eng & Min J 120:493-7 S 26 '25

See also Blasting; Chute gates; Crushing; Limestone; Mines and mineral resources

Accidents

Quarry accidents in the United States during the calendar year 1922. W: W. Adams. U S Bur Mines Tech Pa 353:1-61 '24
Quarry accidents in the United States during the calendar year 1923. W: W. Adams. U S Bur Mines Bul 246:1-76 '25; Excerpt (Introduction). Econ W n s 28:710 N 15 '24; Excerpts. Safety Eng 49:207-8 My '25

Power

Electric motor in the crushed stone industry. E. W. Pilgrim. il Gen Elec R 28:762-9 N '25
Electrically driven stone quarry; the Leckhampton quarries co.'s undertaking. il Elec R (Lond) 97:311 Ag 21 '25

QUARTER-sawed lumber. See Lumber

QUARTZ
Mode of formation of the Porcupine quartz veins. E. Y. Dougherty. il diags Econ Geol 20:660-70 N '25
Shrinkage of quartz packing in the Glover tower. L. J. Michael and J. R. Withrow. Am Inst Chem Eng Trans v 14:33-9; Discussion. 39-43 '21-'22
So-called pseudomorphous quartz of tertiary gold-silver veins. P. G. Morgan. bibliog il Econ Geol 20:203-7 My '25
Die umwandlung von flint in amorphen quarz. R: Grün. il Stahl & Eisen 44:883-7 Jl 24 '24; Discussion. 44:1775-7 D 25 '24
Variation with temperature of the intensity of reflection of X-rays from quartz and its bearing on the crystal structure. R. E. Gibbs. J Fr Inst 199:719-20 My '25

See also Chert; Silica; Silica, Fused

QUARTZ monzonite
Contribution to the igneous geology of central Colorado. R. D. Crawford. map Am J Sci 5th ser 7:365-88 My '24

QUARTZITE
Domestic tube-mill lining successfully meets foreign competition. W. M. Weigel. il Eng & Min J 118:925-8 D 13 '24
Die tertiären quarzitlagerstätten unter besonderer berücksichtigung der vorkommen des rheinischen schiefergebirges. D. A. Hasebrink. bibliog Stahl & Eisen 44:1018-23 Ag 21 '24

QUATERNARY salts. See Salts, Quaternary

QUAYAQUIL & Quito railway
Defaulted government obligation with speculative possibilities. Moody's Inv Serv 16: 399 O 30 '24

QUAYS. See Wharves

QUEBEC

See also Floods—Quebec; Gold mines and mining—Quebec; Hydroelectric plants—Quebec; Mines and mineral resources—Quebec; Roads—Quebec; Water supply—Quebec

Hotels

Reconstructed Chateau Frontenac; Canadian Pacific Ry. doubles capacity. il Ry R 75: 726-31 N 8 '24

QUEBRACHAMINE
Quebrachamine. E. Field. Chem Soc J 125:1444-50 Jl '24

QUEBRACHINE. See Yohimbine

QUEBRACHO
Durability of quebracho. E. T. Birdsall. Chem & Met Eng 32:705 Ag '25
Foreign quebracho monopoly merits consideration by tanners. Chem & Met Eng 31:974 D 22 '24
Latin America's greatest contribution to the tanning industry; quebracho. O: Wilson. il Chem & Met Eng 30:344-6 Mr 3 '24
Manufacture of quebracho extract. R. O. Phillips. il Chem & Met Eng 32:611-14 Jl '25
Quebracho supply under South American control. Oil Paint & Drug Rep 106:20 D 8 '24
Tanning materials survey; quebracho: the origin and growth of the industry and the significance of its control to the leather industry of the United States. H. M. Hoar. U S Bur For & Dom Com Trade Information Bul 295:1-32 '24

QUEEN'S university

Jock Harty arena

Jock Harty arena, Kingston. A. G. MacLachlan. il Can Eng 48:321 Mr 17 '25

QUEENSLAND

See Irrigation—Queensland; Mines and mineral resources—Queensland

QUEENSTON-Chippawa canal
Gregory report vindicates Hydro commission; abstracts. Can Eng 46:337-8 Mr 18 '24; Elec W 83:590 Mr 22 '24; Eng N 92:544 Mr 27 '24
Intake for Queenston-Chippawa canal. il Can Eng 46:189 Ja 29 '24
Queenston-Chippawa development of the hydro-electric power commission of Ontario. F. A. Gaby. diags map plans Engineering 118:220-3, 255-7, pl 19-20, 25 Ag 15-22 '24; Same cond. Can Eng 47:209-15 Ag 5 '24

QUENCHING
Drastic quenching imparts surprising properties to bolts and rivets. E. L. Shaner. il diags Iron Tr R 76:871-4 Ap 2 '25
Salt baths prevent soft spots. W. J. Merten. Iron Tr R 76:1120-2 Ap 30 '25

QUESTIONNAIRES
Let your field investigators get copy material. C. E. Haring. Ptr Ink 130:25-6 Ja 29 '25
Questionnaire as a means of instructing the retailer; how National lamp works gave its agents ideas. Ptr Ink 126:157-8 Ja 17 '24
This plan harvests two sales where one grew before; Republic motor truck company's contact with customers. W. P. Hanson. Ptr Ink 130:121-2+ Ja 22 '25
Uncle Sam knows a thing or two about conducting surveys. Ptr Ink 131:125-6+ Je 4 '25
We find out why investors sell our stock. F. L. Dame. Ptr Ink 132:25-6+ Jl 9 '25
Why and what is a questionnaire? E. K. Mitchell. Ptr Ink M 11:21-2+ Jl '25

QUICKSAND
What is quicksand? C: R. Gow. Engineer 139: 633 Je 5 '25

QUICKSILVER. See Mercury

QUINALDINIC acid
ω-trichloro- and ω-tribromo-quinaldine and the preparation of quinaldinic acid. D. L. Hammick. Chem Soc J 123:2882-4 N '23

QUINAZARINE
Manufacture of anthraquinone derivatives from phthalic anhydride. Color Tr J 16:42-3 F '25

QUINAZOLINES
Researches on quinazolines; a quinazoline analog of cinchophen (atophan); the synthesis of new quinazoline carboxylic acids from isatin and from ortho-amino-acetophenone. M. T. Bogert and F. P. Nabenhauer. Am Chem Soc J 46:1702-7 Jl '24
Researches on quinazolines; some preliminary observations on the behavior of phthalic anhydride with the reactive methyl groups of certain quinazolines. M. T. Bogert and F. P. Nabenhauer. Am Chem Soc J 46:1932-6 Ag '24
Researches on quinazolines; stereoisomeric styryl derivatives of some 4-quinazolone alkyl iodides, and their bearing upon the problem of photosensitizing dyes. M. T. Bogert and H. Clark. Am Chem Soc J 46: 1294-1301 My '24

QUINAZOLONE
Chemical reactivity and conjugation; the reactivity of the 2-methyl group in the 4-quinazolone series. I. M. Heilbron and others. Chem Soc J 127:2167-75 S '25

QUINHYDRONE
Method of measuring the reduction potentials of quinhydrones. E. Biilmann, A. L. Jensen and K. O. Pedersen. Chem Soc J 127: 199-208 Ja '25
Temperature coefficient of the quinhydrone electrode. E. Biilmann and I. Krarup. Chem Soc J 125:1954-6 S '24
Use of the quinhydrone electrode for the estimation of amino-acids and of acid and basic functions. L. J. Harris. Chem Soc J 123:3294-3303 D '23

QUININE
Quinine is an interesting chapter in economic chronicles of recent past. H. S. Abrahamson. Oil Paint & Drug Rep 104:20+ N 5; 20+ N 12; 20+ N 19; 20 N 26; 20 D 3; 20 D 10; 20 D 17; 20 D 24; 20 D 31 '23; 105:20 Ja 7; 20 Ja 14 '24
Quinine; production and marketing. S: H. Cross. U S Bur For & Dom Com Trade Information Bul 273:1-50 '24

QUINOL ethers
Substitution in derivatives of quinol ethers. L. Rubenstein. Chem Soc J 127:1998-2004 S '25

QUINOLINE
Quinoline and the centroid structure. R. C. Fuson. Am Chem Soc J 47:2018-21 Jl '25

QUINONE
Quinone tannage. A. W. Thomas and M. W. Kelly. Ind & Eng Chem 16:925-6 S '24

QUINONEIMINE
New syntheses of quinoneimine dyes. F. Kehrmann and A. van Baerle. Soc Dyers & Col J 40:86-7 Mr '24

QUINONES
Bactericidal action of quinones and allied compounds. G. T. Morgan and E. A. Cooper. Soc Chem Ind J 43:352-4 D 12 '24
New mordant dyestuffs from amino-oxycarboxylic acids combined with quinones. Color Tr J 16:72 Mr '25
Oxidation of hydroquinone in the presence of aliphatic amines; formation of bis(alkylamino) quinones. R. N. Harger. Am Chem Soc J 46:2540-51 N '24
Reduction potentials of quinones; the potentials of certain derivatives of benzoquinone, naphthoquinone and anthraquinone. J. B. Conant and L: F. Fieser. diag Am Chem Soc J 46:1858-81 Ag '24

QUOTAS, Salesmen's. See Sales quotas

QUOTATION marks
Why quotes? E. M. Belmont. Ptr Ink 128:95-6 Jl 3 '24

R

RACE tracks
See Autodromes

RACEMIC acid
Optical activation of racemic acid by *d*-malic acid. A. McKenzie, H. J. Plenderleith and N. Walker. Chem Soc J 123:2875-80 N '23
Studies in the resolution of racemic acids by optically active alcohols; the resolution of *r*-tartaric and *r*-dimethoxysuccinic acids by *l*-menthol. H: Wren and K. H. Hughes. Chem Soc J 125:1739-43 S '24

RACEMIZATION
Catalytic racemisation of the diastereoisomeric *l*-menthyl phenylbromoacetates. A. McKenzie and I. A. Smith. Chem Soc J 125:1582-93 Ag '24
Inorganic complex salts racemisation and the stability of complex ions. W: Thomas and R. Fraser. Chem Soc J 123:2973-6 N '23

RACES
See Airplane races; Automobile racing; Balloon races

RACK railroads
30 jahre Barmer bergbahn. E. Körner. il Elektrotech Zeit 45:949-51 S 4 '24
See also Locomotives—Rack type

RACKS. See Storage racks

RADCLIFFE college, Cambridge, Massachusetts
Le Baron R. Briggs Hall, Radcliffe college, Cambridge, Massachusetts; views and plans. Arch Rec 57:55-60 Ja '25

RADIATION
Absorption of radiation by multiply periodic orbits, and its relation to the correspondence principle and the Rayleigh-Jeans law. J. H. Van Vleck. Phys R 24:330-65 O '24
Advanced potentials and their application to atomic models. L. Page. Phys R 24:296-305 S '24
Atoms and ethereal radiations. R. A. Millikan. Soc Chem Ind J (Chem & Ind) 43:654-5 Je 27 '24
Atoms and rays. O. Lodge. 208p Doran '24
Characteristic X-rays from lithium. G. K. Rollefson. Phys R 25:740-6 Je '25
Corpuscular radiation excited by X-rays. C. G. Barkla and A. E. M. M. Dallas. diags Philos Mag 6th ser 47:1-23 Ja '24
Critical electron energies in hydrogen. F. Horton and A. C. Davies. diags Philos Mag 6th ser 46:872-96 N '23
Derivation of Planck's law from Einstein's equation. A. S. Eddington. Philos Mag 6th ser 50:803-8 O '25
Dielectric properties required for Maxwellian radiation. A. Press. Philos Mag 6th ser 48: 581-5 S '24
Duration of molecules in upper quantum states. R: C. Tolman. Phys R 23:693-709 Je '24
Dynamical illustration of the pressure of radiation. E. L. Nicolai. Philos Mag 6th ser 49:171-7 Ja '25
Dynamical illustrations of the pressure of radiation and of adiabatic invariance. T. H. Havelock. Philos Mag 6th ser 47:754-71 Ap '24
Experimental investigation of the energy of the characteristic K-radiation from certain metals. E. C. Unnewehr. Phys R 22:529-38 D '23
Invisible radiation from illuminants; a review of the facts with regard to utraviolet and infra-red rays. J. W. Ryde. Elec R (Lond) 96:884-6 Je 5 '25
J phenomenon in X-rays. C. G. Barkla. Philos Mag 6th ser 49:1033-56; 50:1115-34 My, N '25 (to be cont)
Longitudinal asymmetry in the direction of ejection of photo-electrons. O. K. deFoe. diag Philos Mag 6th ser 49:817-24 My '25
Matter and radiation; abstracts. O. Lodge. Engineering 119:158-9 F 6 '25; Engineer 139: 139-40 Ja 30 '25
Matter, ether and energy. O. Lodge. il Sci Am 133:80-1 Ag '25
Momentum imparted to electrons by radiation. E. O. Hulburt and G. Breit. Phys R 25:193-6 F '25
Motion of free electrons in black body radiation, and the interaction between radiation and matter. G. Breit. Philos Mag 6th ser 49:537-65 Mr '25
Notes on ethereal waves. W. S. Andrews. Gen Elec R 28:198-201 Mr '25
Opacity of an ionized gas. J: Q. Stewart. Phys R 22:324-32 O '23
Output of radiation from the quartz mercury arc during the period after first striking. B. D. H. Watters. il Philos Mag 6th ser 48:527-34 S '24
Penetrating radiation in the higher atmosphere; abstract. A. Wigand. J Fr Inst 199: 135-6 Ja '25
Persistence of the radiation excited in mercury vapor. L. J. Hayner. diags Phys R 26: 364-75 S '25
Photoelectric and photochemical activity. O. W. Richardson. Philos Mag 6th ser 47:975-6 My '24

RADIATION—*Continued*
Polarization of resonance radiation. G. Breit. diags Philos Mag 6th ser 47:832-42 My '24
Polarized resonance radiation in weak magnetic fields. R. W. Wood and A. Ellett. diags Phys R 24:243-54 S '24
Quantum theory of optical phenomena. J. C. Slater. Phys R 25:395-428 Ap '25
Quantum theory of radiation. N. Bohr, H. A. Kramers and J. C. Slater. Philos Mag 6th ser 47:785-802 My '24
Quantum theory of the impulse radiation. F. W. Bubb. Phys R 24:177-89 Ag '24
Quantum theory on the asymmetries in the direction of ejection of photo-electrons. F. W. Bubb. Philos Mag 6th ser 49:824-38 My '25
Radiant theory of gravitation and inertia. H. P. Gillette. Eng & Contr (W W) 64:561-3 S 9 '25
Radiation. W. P. Davey. J Fr Inst 197:439-78, 629-66 Ap-My '24; Bibliography. 197:665-6 My '24
Radiation from nonluminous flames. R. T. Haslam, W. G. Lovell and R. D. Hunneman. diag Ind & Eng Chem 17:272-7 Mr '25
Radiation given out by gases through which electric discharges are passing. J. J. Thomson. diags Philos Mag 6th ser 49:761-86 My '25
Radiation of light; abstract. H. A. Lorentz. J Fr Inst 198:109-10 Jl '24
Radiation potentials of atomic hydrogen. P. S. Olmstead and K. T. Compton. diag Phys R 22:559-65 D '23
Significance of rays in physics. H. R. Von Traubenberg. Radio N 6:932+, 1161+, 1418+, 1670+ D '24-Mr '25
Soft X-rays from heavy elements, tantalum to gold. J. C. Boyce. Phys R 23:575-9 My '24
Studies in the experimental technique of photochemistry; the determination of the energy distribution and the total energy in the radiation from quartz mercury vapour lamps. R. G. Franklin, R. E. W. Maddison and L. Reeve. diags J Phys Chem 29:713-26 Je '25
Theory of light-quanta. H. Bateman. Philos Mag 6th ser 46:977-91 N '23
Variation of thermionic emission with temperature and the concentration of free electrons within conductors. A. T. Waterman. Phys R 24:366-76 O '24
Visibility of radiant energy. K. S. Gibson and E. P. T. Tyndall. diag Illum Eng Soc 19: 176-93; Discussion. 194-6 F '24
Visible radiation from columbium oxide. E. L. Nichols. Phys R 25:376-85 Mr '25

See also Alpha rays; Beta rays; Electromagnetic theory; Gamma rays; Heat; Heat radiation; Heating—Tables, calculations, etc.; Light; Quantum theory; Radiators; Radioactivity; Radiography; Radium; Solar radiation; Sound; Spectrum; Ultra-violet rays; X rays

RADIATION, Electric. See Electric radiation

RADIATION, Planetary. See Planets—Radiation and temperature

RADIATION, Solar. See Solar radiation

RADIATOR traps. See Steam traps

RADIATORS
Comparative costs and heat emission for cast-iron direct radiation. T. W. Reynolds. Heat & Ven 21:41-5 O '24
Copper radiation. E. W. Riesbeck. il diags Dom Eng 111:24-6+ Je 6 '25
Explosion of a steam radiator. Engineering 120:206 Ag 14 '25
How heat transmission of cast-iron radiators varies due to varying temperature differences. E. Schmidt. Heat & Ven 22:52-3 Je '25
Large uses of steel in small ways; radiator furniture. il Iron Tr R 76:1524 Je 4 '25
Radiation computing; the Reynolds tables. Heat & Ven 22:87, 101-4 Ap-My '25
Some facts about enclosed radiation. R. V. Frost. Am Soc Heat & V E J 30:741-6 D '24: Same. Dom Eng 110:34-7 Ja 31 '25; Abstracts. Heat & Ven 22:75-7 F '25; Sanitary & Heat Eng 103:146-7 Mr 6 '25; Discussion. Am Soc Heat & V E J 31:207-8 Mr '25
Speedy and accurate method of figuring radiator sizes. P. R. Babcock. Heat & Ven 21:53-4 Jl '24
Your radiator paint can either aid or retard heat. E. W. Riesbeck. Dom Eng 108:26 S 27 '24

See also Gas steam radiators; Heating; Hot water heating; Steam heating

Manufacture
Make radiator sections on synchronized traveling conveyors. R. J. Heisserman. il Foundry 53:573-4 Jl 15 '25; Same cond. Iron Tr R 77:310-11 Ag 6 '25

Rating
Radiator ratings; charts. Heat & Ven 21: 104-7 F; 82-5 Mr; 86-9 Ap; 86-9 My; 82-5 O; 84-7 N; 84-7 D '24; 22:94-7 Ja; 96-9 Mr '25

Testing
Heating effect of radiators. C. W. Brabbée. il Am Soc Heat & V E J 31:501-17; Discussion. A. H. Barker. 518-20 N '25
New data on radiator finishes and their effect on heat transmission. W. H. Severns. il diag Heat & Ven 22:51-3 F '25; Same. Sanitary & Heat Eng 103:321-2+ My 15 '25
Radiator finishes; effect of different finishes on heat transmission. Heat & Ven 22:99 Ag '25
Testing of steam radiators. il diag Dom Eng 109:17-18+ D 20 '24

RADIATORS, Cooling

See Airplane engines—Radiators; Antifreeze solutions; Automobile engines—Radiators

RADICALS

See Gitlow, Benjamin

RADICALS (chemistry)
Chemie der freien radikale; entwicklungsgang und gegenwärtiger zustand der lehre von den freien radikalen. P. Walden. 351p S. Hirzel, Leipzig '24
Dissociation into free radicals of substituted dixanthyls; dibenzyl- and dibutyldixanthyl. J. B. Conant and A. W. Sloan. Am Chem Soc J 47:572-80 F '25
Electrochemical relation of free radicals to halochromic salts. J. B. Conant, L. F. Small and B. S. Taylor. Am Chem Soc J 47:1959-74 Jl '25
Organic radicals. M. Gomberg. bibliog Chem R 1:91-141 Ap '24
Preparation and decomposition of unsymmetrical mercuri-organic compounds; method of establishing the relative degree of negativity of organic radicals. M. S. Kharasch and M. W. Grafflin. Am Chem Soc J 47:1948-54 Jl '25
Radical theory in modern chemistry. C: A. Kraus. Am Chem Soc J 46:2196-2204 O '24

See also Substitution (chemistry)

RADIO advertising
Britain bans radio advertising. T: Russell. Ptr Ink 129:49-50 N 20 '24
Broadcasting doesn't belong in advertising account. Ptr Ink 132:125-6+ Ag 6 '25
Complete radio tie-up in Denver. J: T. Bartlett. Burroughs Clearing House 9:30+ My '25
Congress is watching the use of radio broadcasting for advertising. Ptr Ink 127:25-6+ Ap 3 '24
Free the air of advertising is watchword of new radio association. Ptr Ink 127:69-70 Ap 10 '24
Government's attitude on radio advertising—interview with Secretary Hoover. Ptr Ink 126:8+ Mr 20 '24
How about broadcasting the story of gas. Gas Age 54:418+ S 20 '24
How dangerous is indirect advertising to radio? Ptr Ink 129:17-20 O 16 '24

RADIO advertising—*Continued*
How newspaper publishers regard radio broadcasting. A. E. Haase. Ptr Ink 131:73-4+ Ap 30 '25
How radio broadcasting is being used as an advertising tool. A. Moss. il Gas Age 56: 265-6+ Ag 22 '25
How to remove advertising as the philanthropist of broadcasting. A. E. Haase. Ptr Ink 130:140+ Mr 5 '25
Is radio broadcasting a throwback in advertising? A. E. Haase. Ptr Ink 130:80+ F 19 '25
National advertisers to discuss radio advertising. Ptr Ink 131:140 Ap 23 '25
Propaganda, radio and reading notices—interview with Senator Capper. Ptr Ink 126: 10+ Mr 13 '24
Public hears about house heating over the radio. il Am Soc Heat & V E J 30:321-6 Ap '24
Radio advertising an intrusion, says Westinghouse official. Ptr Ink 127:89-90 Ap 24 '24
Radio broadcast advertising in Argentina. R. A. Gibson. Radio N 6:179+ Ag '24
Radio broadcasters discuss conditions. Ptr Ink 132:173-4 S 24 '25
Radio education for investors. S: O. Rice. I B A of A 12:228 Mr 31 '24
Selling the movies by radio. A. J. H. McCosker. il Wireless Age 11:37+ S '24
Should advertising shoulder the cost of radio broadcasting? A. E. Haase. Ptr Ink 130:3-4+ F 5 '25
We sit in on a radio-advertising program; burlesque. S. Hopper. Ptr Ink 126:53-4 Mr 13 '24
What the public thinks about advertising over the radio. J. True. Ptr Ink 131:113-16+ Ap 2 '25
Why newspapers must not declare war against radio. C. L. Mulligan. Ptr Ink 131: 151-2+ My 14 '25
Why radio advertising is impracticable. Ptr Ink 125:137-8+ N 15 '23
Will the government interfere with broadcasting of advertising? Ptr Ink 131:85-6+ Ap 9 '25

RADIO antennas
Aerials; outdoor, indoor and loop. W: F. Crosby. diags Wireless Age 12:23+ My '25
Antenna system. A. P. Peck. diags Radio N 5:1746-7+ Je '24
Beverage aerial. T. L. Eckersley. diags Electrician 92:39-41 Ja 11 '24
Le calcul des pylônes haubanés. Sainflou. diags Génie Civil 83:487-91 N 17 '23
Design of loop antenna. R. Batcher. il diags Wireless Age 11:40-1 F; 38+ Mr; 54+ Ap '24
Effect of oxidation on the high-frequency resistance of aerial wires: with a note on measuring the resistance of thick wires. L. B. Turner. diags Inst E E J 63:149-53 Ja '25
Effect of the shape of the transmitting aerial upon observed bearings on a radio direction-finder. R. L. Smith-Rose. diags Inst E E J 62:957-63 N '24
Die erdungsfrage bei antennen und die verminderung der erdverluste. Dr. Hamm. diags Elektrotech Zeit 45:1309-12 N 27 '24
Fundamental transmission and reception. E. H. Hansen. il diags Radio N 6:1421+ F '25
Grounds and counterpoises. L. W. Hatry. diags Radio N 5:1422+ Ap '24
Höhe der rundfunkantennen. O: Betz. Elektrotech Zeit 46:148-50 Ja 29 '25
Investigation of antennae by means of models. J. Tykocinski-Tykociner. il diags Ill U Eng Exp Sta Bul 147:1-60 [bibliog. p. 57-8] '25
Lightning protection for antennae. J. R. McFarlin. diags Radio N 5:1257+ Mr '24
Loop antenna. R. H. Langley. diags Radio N 6:40+ Jl '24
Loop transmission experiments. L. W. Hatry. diags Radio N 6:313+ S '24
Myth of summer lightning. M. Wolf. diags Radio N 6:326+ S '24
Overlooked Beverage antenna. T: A. Marshall. diag Radio N 5:897+ Ja '24
Plate aerials for wireless reception. C. F. Mackness. Elec R (Lond) 96:446 Mr 20 '25; Discussion. 96:558 Ap 3 '25
Le réglage des tensions mécaniques des câbles; application au réglage des tensions de pose des haubans de pylônes de T.S.F. P. Bouvier and M. Bourseire. Génie Civil 85: 497-500 N 29 '24
Regulations for outdoor aerials—some interesting problems for German amateurs. G. W. O. Howe. Electrician 95:34+ Jl 10 '25
Some suggestions on the design and construction of aerials. L. W. Hatry. diags Radio N 5:894+ Ja '24
Star antenna of Eilvese. A. Neuburger. il Radio N 5:1050 F '24
Theory and design of loop antennae. E. E. Laufer. diags Radio N 6:2256+ Je '25
Timely notes on aerial installations. H. Jolliffe. il diag Radio N 5:1585+ My '24
V D E; kommission für hochfrequenztechnik. Elektrotech Zeit 46:823-5 My 28 '25
Wireless beam. il diag Engineer 140:273-4 S 11 '25

RADIO apparatus
Aus der 2. grossen deutschen funkausstellung. il Elektrotech Zeit 46:1550-2 O 8 '25
Fundamentals of radio. J. L. Thomas. 211p Van Nostrand '23
History of radio inventions. A. H. Morse. diags Radio N 6:2048-9+; 7:52-3+, 184-5+, 296-7+ My, Jl-S '25
Infantry radio outfit; the Marconi observation post set. il diag Elec R (Lond) 94:236-7 F 8 '24
Iron losses at high frequencies. G. W. O. Howe. diags Electrician 94:684-5 Je 12 '25
Needed radio inventions. J. Hollander. diags Radio N 7:48+ Jl '25
Radio construction for the amateur. M. Duston. 26p Whitman pub. co., Racine, Wis. '24
Radio direction-finding observations on ship and shore transmitting stations. R. L. Smith-Rose. maps Inst E E J 62:701-11 Ag '24
Radio instruments and measurements. il diags U S Bur Stand Circ 74:1-324; Bibliography. 325-34 '24
Radio-photo letter. S. R. Winters. il Radio N 6:1386-7 F '25
Radio system built of air-castle dreams. H. Clawson. il diags Wireless Age 11:26-9+ Ag '24
Radio used to discover electrical defects in cars. J: O. Gerson. diag Elec Ry J 66:90 Jl 18 '25
Radio's woman inventor, Gail Savage. G. Savage. il Radio N 6:2089+ My '25
Service car arranged for tracing radio troubles. W. R. Cornell. il J Elec 55:94 Ag 1 '25
Some developments in the electrical industry during 1923. J: Liston. il Gen Elec R 27:41-5 Ja '24
Some developments in the electrical industry during 1924. J: Liston. il Gen Elec R 28: 37-8 Ja '25
Some new Marconi apparatus. il Electrician 91:663-4 D 14 '23
Some recent radio developments. S. R. Winters. il Radio N 5:1568-9 My '24
Staccatone at WRNY; WRNY opening. il Radio N 7:284-6 S '25
Staccatone; squeals and whistling noises controlled so as to produce pure, musical tones. Radio N 6:21+ Jl '24
Test table; monthly department of authoritative information about radio apparatus. R. P. Clarkson. See monthly numbers of Wireless age

See also Amplifiers; Direction finding apparatus; Inductance coils; Kenotron; Radio antennas; Radio apparatus industry; Radio circuits; Radio compass; Radio condensers; Radio loud speakers; Radio receiving apparatus; Radio stations; Radio transformers; Radio transmitters; Vacuum tubes; Vox electromagnetic recorder; Wavemeters

RADIO apparatus—*Continued*

Bibliography

Radio instruments and measurements. U S Bur Stand Circ 74:325-34 '24

Exhibitions

All-British wireless exhibition. il Engineer 136:502-4, 524-6, 553-4 N 9-23 '23; Elec R (Lond) 93:756-8, 766-8, 836-7, 869-70 N 16-D 7 '23; Electrician 91:516-19, 549-51 N 9-16 '23

All-British wireless exhibition; some impressions and criticisms by a technical visitor. B. Mittell. Electrician 91:546 N 16 '23

Chicago radio show, Nov. 20-25. R. H. G. Mathews. il Wireless Age 11:24-6+ Ja '24

Electrical engineering exhibits at the British Empire exhibition. il Engineer 137:470-2 My 2 '24

French radio novelties at the Radio show, Paris. Y. Dropper. il diag Radio N 5:1745 Je '24

German wireless exhibition. il Electrician 95: 355+ S 25 '25; Elec R (Lond) 97:591-2 O 9 '25

Die grosse deutsche funkausstellung in Berlin. G. Grimsen. Elektrotech Zeit 46:213-14 F 12 '25

Los Angeles exposition. il Wireless Age 12:50 F '25

Marconi companies; exhibits. il Elec R (Lond) 94:711-12 My 2 '24

Modern wireless equipment. il Electrician 92: 728, 796-8 Je 13, 27 '24

Radio at the British Empire exposition; the Marconi company exhibit at Wembley. il Wireless Age 11:61 Jl '24

Second London radio exhibition, Oct. 10-16. il Elec R (Lond) 97:645-6, 687-8 O 23-30 '25

Wireless apparatus at the British Empire exhibition. il diag Engineer 137:588-9 My 30 '24

Wireless at the White City. il Electrician 93: 584-5 N 21 '24

Wireless exhibition, London, Sept. 27-Oct. 8. il diags Engineer 138:378-80 O 3 '24; Elec R (Lond) 95:495-6, 534-5 O 3-10 '24; Electrician 93:381-2, 409-10 O 3-10 '24

Wireless exhibition, London, Sept. 12-24. plan Engineer 140:302 S 18 '25; Elec R (Lond) 97:449-50, 513-14, 555-7 S 18-O 2 '25; Electrician 95:327-8, 389, 413-14 S 18, O 2-9 '25

Manufacture

Applying production methods to the radio head set. R. F. Yates. il Am Mach 59:755-6 N 22 '23

Automatic production of hard rubber radio parts. il India Rubber W 70:722-3 Ag '24

Fourteen acre radio factory of Atwater Kent manufacturing company. W. R. Fogg. il Bldg Age 47:140-1 S '25

Manufacture of radio apparatus at the Sterling telephone works. il Elec R (Lond) 94: 302-3 F 22 '24

Radio for the multitude. il Am Mach 62:656-7 Ap 23 '25

Rubber parts in radio instruments. il India Rubber W 70:443-5 Ap '24

What are the opportunities in radio factories? M. B. Sleeper. il Wireless Age 11:52-3+ Ap '24

Merchandizing

See Radio apparatus industry

Patents

DeForest now controls regeneration patents. W. B. Arvin. diags Radio N 6:41+ Jl '24

L'expropriation de brevets allemands de T. S. F. Génie Civil 83:647-8 D 29 '23

New radio patents. Published in monthly numbers of Radio news

Radio patent revolution. E. F. McDonald, jr. Radio N 6:1337+ Ja '25

Regeneration and the patent situation. J: B. Brady. diags Radio N 6:1424+ F '25

Safety devices and measures

Fire hazards of radio sets and the precautions they call for. Econ W n s 27:853-4 Je 14 '24

RADIO apparatus industry

Are electrical dealers making the most of radio? E. F. McDonald, jr. J Elec 53:415 D 1 '24

Business ought to be mainly, if not entirely in the hands of electrical traders. Electrician 94:336-7 Mr 27 '25

Can the electrical dealer sell radio? A. E. Schefframan. J Elec 51:452-3 D 15 '23

Displaying wireless apparatus. D: Autton. Electrician 92:172 F 8 '24

Don't believe it; much questionable apparatus being sold. J. Hollander. Radio N 6:2047+ My '25

Economics of the radio industry. H. L. Jome. 332p Shaw '25

Electric dealer's opportunity in radio. A. S. Lindstrom. J Elec 53:288 O 15 '24

Financial side of radio. J. A. Halsted. Radio N 6:1856+ Ap '25

Goblins won't get you if you venture to sell in summer. M. Hastings, jr. Ptr Ink 131: 41-2+ Je 25 '25

Government charts world radio markets. Ptr Ink 128:80 S 25 '24

Growing pains of an infant industry. E. C. Reeves. il Nation's Business 13:50+ S '25

How to be a radio salesman. M. B. Sleeper. il Wireless Age 11:32-3+ F '24

Is radio running away with the jobber? Elec W 83:855 Ap 26 '24

Lesson for manufacturers in the farmer's welcome of radio. J. True. Ptr Ink 126:73-4+ Ja 24 '24

Merchant finds radio and motor car accessories go well together. il Am Exporter 95: 77+ Jl '24

Metal trades and the radio industry. R. F. Yates. diags Metal Ind 22:53-4 F '24

Radio, a leading industry. R. W. Babson. il Radio N 6:30-1 Jl '24

Radio—a world-wide merchandising opportunity as broadcasting spreads. A. C. Lescarboura. il Dun's Int R 44:37-40+ F '25

Radio boom. Moody's Inv Serv 17:18 Ja 8 '25

Radio dealer year book. Radio dealer, 1133 B'way, New York

Radio distribution by the central station. D: Sarnoff. Elec W 85:323-4 F 7 '25

Radio faces big boom. H. D. Williams. Annalist 25:27 Ja 5 '25

Radio monopoly attacked. Elec W 83:250 F 2 '24

Radio set for every purse. W. F. Crosby. il Am Exporter 94:75+ My '24

Radio, speculation of the age. E. Dakin. Comm & Fin 14:163-4 Ja 21 '25

Radio trade notes. L. N. Allen. Radio N 5: 1428+ Ap '24

Radio trade will find solution to its own sales problems. E. E. Bucher. Sales Management 8:831 My 30 '25

Radio's triumphs increase daily. W. F. Crosby. il Am Exporter 94:9-14+ Mr '24

Resale policy on radio. J. E. Livor. Elec W 83:503 Mr 8 '24

Retailing wireless apparatus. L. McMichael. Electrician 91:509 N 9 '23

Selling of radio apparatus. E. Alexander. Elec R (Lond) 94:525-6 Ap 4 '24

Selling wireless to the trader. Electrician 92: 460-1 Ap 11 '24

Some manufacturers' sales efforts. A. J. Smith. Elec R (Lond) 94:489-90 Mr 28 '24

Starts selling below cost, gains profit through volume; a view of Crosley radio's experience G. A. Nichols. Ptr Ink M 8:39-40+ Je '24

Survey of merchandising trends in the radio field. R. W. Johnson. Sales Management 8:433-5+ Mr 21 '25

Two great opportunities for radio industry. J. G. Harbord. Forbes 16:239-41+ Je 1 '25

What radios and accessories offer the modern merchant abroad. A. C. Lescarboura. il Dun's Int R 45:37-42 Je '25

What's happening in the radio industry? A. E. Haase. Ptr Ink 133:3-4+ O 15 '25

Why a central station sells radio. Elec W 84:1164-5 N 29 '24

Will the jobber survive in radio? M. C. Rypinski. Elec W 85:1368-9 Je 20 '25

RADIO apparatus industry—*Continued*

Advertising

Is radio reaching its real customers? J. H. Collins. Ptr Ink 127:10+ My 1 '24
New model chatter is a false sales stimulant. S. Hopper. Ptr Ink 132:99-100 Jl 2 '25
Picking a sales and advertising policy that will last; manufacture of radio apparatus picks out a leader. H: Burwen. Ptr Ink 126:10+ Ja 3 '24
Radio magazines. Ptg Art 43:31-8 Mr '24
Take the bunk out of radio copy. S. Hopper. Ptr Ink 130:49-50 F 26 '25
This export letter produced 353 inquiries and 91 orders. Ptr Ink 132:88+ Ag 13 '25
Wireless publicity. il Electrician 94:309-10 Mr 13 '25

Directories

First annual portable radio set directory. H. Gernsback. il Radio N 7:161-3 Ag '25
First annual radio set directory. H. Gernsback. il Radio N 6:1649-64, 1857 Mr-Ap '25; Correction. 6:2118 My '25
Radio set directory. Published in monthly numbers of Radio news
Radio trade directory; a classified directory of the radio and allied industries. [quarterly] McGraw-Hill '24

Securities

Radio stocks soar. Radio N 6:1807+ Mr '25

Germany

Radio in Germany. il Radio N 5:1577+ Mr '24

Great Britain

Can American radio sets be sold in Great Britain? F. W. Challis. il Radio N 5:1575+ My '24
Radio situation in Great Britain. H. D. Butler. U S Bur For & Dom Com Trade Information Bul 358:1-14 '25

Mexico

Selling radio in Mexico. R. McDaniel. il Sales Management 8:605-6 Ap 18 '25

United States

Production of radio apparatus, 1923. Wireless Age 12:43 D '24; Blast F & Steel Pl 12:524 N '24
Radio exports for 1924 estimated at over $6,000,000. Radio N 6:1817 Mr '25

RADIO arc

Leafield coupled arc. A. G. Lee and A. J. Gill. diags Inst E E J 63:697-711 Jl '25; Abstract. Engineer 139:634 Je 5 '25; Discussion. Inst E E J 63:711-14 Jl '25
Poulsen arc generator. C. F. Elwell. [bibliog. p. 177-190] 192p Van Nostrand '23

RADIO beacons

Crossed coil radio beacon to guide San Francisco bay ferry boats. J Elec 53:405 D 1 '24
Directive type of radio beacon and its application to navigation. F. H. Engel and F. W. Dunmore. il diags U S Bur Stand Sci Pa 480:281-95 '24; Abstract. Radio Serv Bul 82: 23-4 F '24
New radio aids for saving ships. il Sci Am 131:303 N '24
Radio beacons and their operation. O. C. Roos. diags Wireless Age 11:47-8 O '23; 45 Ja '24
Radio beacons non-directive and directive. F. W. Dunmore. il diags Radio N 5:1554-6+ My '24

RADIO broadcasting

A. T. & T. seeks no radio monopoly. H. B. Thayer. Pub Serv Management 36:149-50 My '24
Better and shorter programs desired. C. H. Butman. Radio N 6:1587+ F '25
Broadcasters, broadcatchers and broadcashers. A. Perry. il Radio N 6:16-17+ Jl '24
Broadcasting by wired radio. R. D. Duncan, jr. il diags Elec W 84:157-60 Jl 26 '24; Same. Radio N 6:462-3+ O '24
Broadcasting distribution; some problems when transmitting city districts. R. Bown and G. Gillett. maps Electrician 92:694-6+ Je 6 '24
Broadcasting from mid-ocean. il Sci Am 132: 421 Je '25
Broadcasting in 1912. G. C. B. Rowe. il Radio N 6:2219+ Je '25
Broadcasting in 1923. J. C. W. Reith. Electrician 92:34 Ja 11 '24
Broadcasting makes a giant stretch. J. W. Howe. il diag Wireless Age 11:29 Ap '24
Broadcasting outside the studio. S: C. Miller. il diags Wireless Age 12:50-1+ O '24
Broadcasting—past and future. J. C. W. Reith. Electrician 93:342-3 S 26 '24
Children's hour. G. M. Goldman. il Wireless Age 12:32-3+ F '25
Cooking eggs—via radio. H. Lee. il Wireless Age 11:24+ D '23
Daylight broadcasting. R. A. Sweet. il Radio N 5:1727+ Je '24
Despoil the composer? clear the air of music static. J. C. Rosenthal. Wireless Age 11: 25+ Ap '24
Does your radio = X? C. Smelker. Wireless Age 12:60+ Mr '25
Double Anglo-French broadcasting. L. S. Lees. il Radio N 5:1577+ My '24
Energy values in a broadcasting system. J. Marsten. il Radio N 5:873+ Ja '24
Europe lends ear to ether waves as broadcasting grows. il Dun's Int R 45:57-8 Ap '25
Experts discuss broadcasting on 150 meters. Radio N 7:18+ Jl '25
Filling the air with tribute; Roosevelt memorial day. S. H. Hawkins. il Wireless Age 11:34-5 D '23
First conversation from airplane to ground broadcasted. il Aviation 17:961-2 S 8 '24
Der frequenzbereich von sprache und musik. K. W. Wagner. diags Elektrotech Zeit 45: 451-6 My 8 '24
Future of radio. C. M. Jansky. Radio N 6: 1643+ Mr '25
Future of radio broadcasting. M. P. Rice. Radio N 5:875+ Ja '24
German view on broadcasting. C. Schapira. il Wireless Age 11:51-2 F '24
High quality transmission and reproduction of speech and music. W. H. Martin and H. Fletcher. diags Am Inst E E J 43:230-8 Mr '24
How to identify the enemies of good reproduction. E. H. Felix. il Radio N 6:2214-15+ Je '25
How your ear helps out your loud speaker. P. B. Findley. il Radio N 6:918-19+ D '24
London talks to U. S.; international broadcasting. J. Eddy. il Wireless Age 12:9-11 My '25
Making Europe part of U.S. radio audience. Radio N 5:1354+ Mr '24
Menace to radio broadcasting. M. L. Muhleman. il Radio N 5:1403+ Ap '24
Monitoring in broadcasting. Sci Am 130:286 Ap '24
More applause, please! R. F. Yates. Radio N 5:1388-9 Ap '24
Oberammergau comes to America through the microphone. il Wireless Age 11:34-5 F '24
Preliminary analysis of high-power radio broadcasting by the Bureau of standards. il Gen Elec R 28:720 O '25
Public policy toward radio broadcasting. H. L. Jome. charts J Land & Pub Util Econ 1:198-214 Ap '25
Putting radio programs on the air and taking them out of the air. A. C. Lescarboura. il Sci Am 130:302-3+ My '24
Radio—a world-wide merchandising opportunity as broadcasting spreads. A. C. Lescarboura. il Dun's Int R 44:37-40+ F '25
Radio and movies are now linked. C. Galloway. il Radio N 7:586-7+ N '25
Radio broadcasting situation; an interview with Secretary H. C. Hoover. S. R. Winters. Radio N 6:472+ O '24
Radio broadcasting solves the servant problem. C. Frederick. il Wireless Age 12:36-7+ Jl '25

RADIO broadcasting—*Continued*

Radio relay makes world wide broadcasting possible. il Radio N 5:1728-9+ Je '24

Radio service given over the telephone. T: F. Gilliams. il Radio N 6:1632-3 Mr '25

Radio with the romance tuned out. A. Hobson. il Am Bankers Assn J 16:479-82 F '24

Radio's torchlight parade to Lloyd George. E. H. Felix. por il Wireless Age 11:32-3 D '23

Re-broadcasting, a new era in radio. il Radio N 5:1242+ Mr '24

Re-broadcasting the broadcast program. W. J. Purcell. il Sci Am 131:164 S '24

Requirements to be fulfilled by satisfactory broadcasting equipment; Birmingham broadcasting station. E. M. Deloraine. Electrician 95:409-11+, 438-40 O 9-16 '25

Review of broadcasting. M. P. Rice. Wireless Age 12:33+ Jl '25

Some problems of broadcast reception. G. W. O. Howe. Electrician 95:290-1 S 11 '25

Story of broadcasting. A. R. Burrows. 182p Cassell and co., ltd., New York '24

Superpower broadcasting. il Radio N 7:418-19+ O '25

Super-power in radio broadcasting. L: Frank. Radio N 6:1136-7 Ja '25

Super-radio to span the Atlantic. O. E. Dunlap, jr. il map Sci Am 133:244-5 O '25

Technical broadcasting problems. J. S. Brown. Electrician 95:299 S 11 '25

Technical problems of broadcasting. P. P. Eckersley. Electrician 92:228 F 22 '24

Telepathy and radio. J. M. Bird. Sci Am 130: 382+ Je '24

Trans-Atlantic broadcast tests. G: E. Oliver. il Radio N 5:1225+ Mr '24

Trans-Atlantic radio telephony; broadcast matter successfully re-radiated. il Elec R (Lond) 94:194-5 F 1 '24

What broadcasting needs. H. Gernsback. Radio N 5:865 Ja '24

What happens in the broadcast station. A. P. Peck. il diags Radio N 7:798-9+ D '25

Why radio will not supplant newspapers. Ptr Ink 126:28 F 21 '24

Will short waves revolutionize broadcasting? W. W. Rodgers. il Wireless Age 11:39 Mr '24

Will your radio set be obsolete? use of short wavelengths. O. E. Dunlap, jr. il Sci Am 133:168-9 S '25

The women's hour. G. M. Goldman. Wireless Age 12:34-5+ Mr '25

World wide broadcasting. C. S. Anderson. Wireless Age 11:49 Mr '24

WRNY starts broadcasting innovation; program planned for months in advance. C: D. Isaacson. Radio N 7:599+ N '25

See also Radio advertising; Radio broadcasting stations; Radio loud speakers; Radio receiving apparatus; Vox electro-magnetic recorder; Weather forecasts—Broadcasting

Agricultural applications

Farm radio making rapid progress. J. Farrell. il Radio N 6:1143+ Ja '25

Harvest time on the air. W: A. Hurd. il Wireless Age 12:19-21+ N '24

Rural life modernized. F. C. Gilbert. il Wireless Age 12:24-7+ Mr '25

Binaural method

Binaural broadcasting. F. M. Doolittle. il Elec W 85:867-70 Ap 25 '25

Plastic radio by the Kluth system. A. Gradenwitz. il diags Radio N 7:601+ N '25

Radio stereophony. L. Kapeller. diags Radio N 7:416+ O '25

Business applications

Broadcasting for good will. G. D. Fleck. Aera 14:397-401 O '25

Union trust company of Cleveland sends out financial and commodity reports. il Wireless Age 11:36-8 D '23

Die weltwirtschaftliche bedeutung des rundfunks. M. Roscher. Elektrotech Zeit 45:841-4 Ag 7 '24

See also Radio advertising

Church services

To those who attend church. H. F. Fulton. Wireless Age 11:33+ Ag '24

Copyright laws

Broadcast of copyright music no infringement, court rules. Radio N 6:1319+ Ja '25; Wireless Age 12:43 D '24

Radio and the copyright problem. H. L. Jome. Radio N 6:2046+ My '25

Dramas

Radio plays; broadcasting the drama in a realistic manner. S. R. Winter. il Wireless Age 12:58-9 Mr '25

Theater in radio. W: A. Hurd. il Wireless Age 11:21-4+ My '24

Educational applications

Broadcasters giving us education via radio. C. Frederick. il Wireless Age 12:42-3+ My '25

College education by radio from Columbia. R G. King. Radio N 6:847+ N '24

Garden of knowledge. W: A. Hurd. il Wireless Age 11:18-21 S '24

How radio is lifting the level of American women's cookery. C. Frederick. il Radio N 6:1635+ Mr '25

Kansas state agricultural college; college of the air. Radio N 6:677+ N '24

New college of the air. il Radio N 6:1138 Ja '25

Radio and family education. C. Frederick. il Wireless Age 11:34-5+ Ag; 34-6+ S '24

Radio in the schools. T. B. Mills. il Wireless Age 11:28-9 My '24

Radio schools of housewifery. C. Frederick. il Wireless Age 12:36-8+ F '25

Radioizing the country school. H. G. Borland. il Radio N 5:1071+ F '24

Finance

Federal radio tax?—no! C: P. Kopperman. Radio N 5:1559+ My '24

Footing the broadcasting bill. A. C. Lescarboura. Wireless Age 11:26-7+ D '23

Hoover advises a radio sales tax. Elec W 84:1381-2 D 27 '24

How to remove advertising as the philanthropist of broadcasting. A. E. Haase. Ptr Ink 130:140+ Mr 5 '25

Public pays; does it get the radio music it pays for? P. B. Klugh. Wireless Age 11: 24+ Ap '24

Shall we have a federal radio tax? R. F. Yates. Radio N 5:867+ Ja '24

Should advertising shoulder the cost of radio broadcasting? A. E. Haase. Ptr Ink 130: 3-4+ F 5 '25

Who pays for broadcasting? or how do we get the bill? W: A. Hurd. Wireless Age 11: 26-8+ Ap '24

Health information

At 6:45 in the morning; the Tower health exercises. G. M. Goldman. il Wireless Age 12:7-8+ Je '25

Ice reports

Experimental broadcasting of ice reports by Scheveningen station. Radio Serv Bul 96: 12-13 Ap '25

Industrial applications

Radio calls emergency crews in Detroit. il Elec Ry J 64:458-9 S 20 '24

Interference

See Radio communication—Interference

Library applications

Use of radio by public libraries. Lib J 49: 581-2 Je 15 '24

Music

Picking up broadcast music. A. N. Goldsmith. il Wireless Age 11:28-9 D '23

Plunketteers of the air. G. M. Goldman. Wireless Age 12:33+ D '24

RADIO broadcasting—*Continued*

News

How newspaper publishers regard radio broadcasting. A. E. Haase. Ptr Ink 131:73-4+ Ap 30 '25

Political applications

Broadcasting the Senate proceedings. R. B. Howell and N. B. Dial. Wireless Age 11:30-1+ Ag '24

Getting the rural vote. H: C. Wallace. Wireless Age 12:45 N '24

How broadcasting June conventions affects the November elections. W: A. Hurd. Wireless Age 11:18-22+ Ag '24

Injunction against use of city owned radio for political purposes by Mayor Hylan continued. Comm & Fin Chr 121:1421-2 S 19 '25

Sporting news

Radio athletics. S. H. Hawkins. il Wireless Age 12:22-5 N '24

Radio making sport interest nation wide. R. F. Yates. il Wireless Age 11:30-1 D '23

Weather reports

See Weather forecasts—Broadcasting

Argentina

Broadcasting in the Argentine. D. Jose. Wireless Age 12:10+ Je '25

Australia

Broadcasting in Australia. O. W. Tuttle. il Radio N 5:1574+ My '24

Europe

Radio in Europe. A. C. Granbeck. il Wireless Age 12:18-19+ Ap '25

Germany

Drahtlose telephonie und rundfunk. F. Trautwein. diag Elektrotech Zeit 45:390-4 Ap 24 '24

KDKA rebroadcast in Germany on a single tube. S. McClatchie. il Radio N 7:272-3+ S '25

Great Britain

Broadcasting in Great Britain. S. R. Winters. il diag Radio N 6:1139+ Ja '25

Broadcasting in the British Isles. A. R. Burrows. il Wireless Age 11:24-6+ F '24

Continental re-broadcasts; broadcast conditions in the British Isles. A. C. Granbeck. Wireless Age 12:17-19+ Mr '25

Radio broadcasting in Great Britain. J. A. Fleming. il Radio N 5:1724-6+ Je '24

United States

Artists out of the West. R. L. Power. il Wireless Age 12:44-5+ Ap '25

Chicago broadcasts. A. Lord. il Wireless Age 12:40-1+ Ap '25

First radio inauguration. O: Wilson. il Wireless Age 12:34-5+ Ap '25

Some of the Atlantic coast's popular broadcasters. C. Frederick. Wireless Age 12: 46-9+ Mr '25

RADIO broadcasting stations

Broadcast stations on 150 meters. W. B. Aruin. il Radio N 6:2206-7+ Je '25

Community broadcasting station will spur radio sales. W. F. Crosby. il diag Am Exporter 95:73+ Ag '24

Super-power; possibilities of stations of more than 1,000 watts. O. C. Ross. Wireless Age 12:38-41+ D '24

Third avenue railway opens broadcasting station. il Aera 13:391-5 O '24

World's first portable broadcast station. Radio N 6:614-15 O '24

Directories

Broadcasting stations alphabetically by states and cities complete to May 31, 1925. Radio Serv Bul 98:13-16 Je '25; Same. In Commercial and government radio stations of the United States. p. 55-7 U.S. Dept. of commerce, Bur. of navigation, Washington '25

Broadcasting stations in foreign countries. Radio Serv Bul 89:9-10 S '24

Broadcasting stations of the United States by wave lengths. Radio Serv Bul 95:9-13 Mr '25

Complete list of world's broadcast stations. Radio N 6:1912+ Ap '25

Foreign radio broadcasting stations. Radio Serv Bul 91:19-23 N '24

List of broadcast stations of the U.S. and Canada in order of wave lengths. E. F. Warren. Radio N 6:346+ S '24

List of foreign broadcasting stations. Radio Serv Bul 101:11-17 S '25

New broadcasting stations. Published in monthly numbers of Radio service bulletin

Stations broadcasting market or weather reports, music, concerts, lectures, etc., alphabetically by call signals. In Commercial and government radio stations of the United States. p. 58-68 U.S. Dept. of commerce, Bur. of navigation, Washington '25

Argentina

List of Argentina broadcasting stations. Radio Serv Bul 87:14 Jl 1 '24

Austria

Organization of radio broadcasting in Vienna. R: Neumann. il diag Radio N 6:1634+ Mr '25

Canada

Broadcasting stations of Canada. Radio Serv Bul 100:7-8 Ag '25

Growth of CKAC. Radio N 6:861+ N '24

List of broadcasting stations of Canada, alphabetically by call signal. Radio Serv Bul 81:8; 85:9 Ja, My '24

Cuba

List of Cuban broadcasting stations (February 12, 1924). Radio Serv Bul 83:12 Mr '24

England

Birmingham broadcasting station. E. M. Deloraine. il Electrician 95:438-40 O 16 '25

Daventry broadcasting station. il Engineering 120:134-6 Jl 31 '25; Engineer 140:110, 116 Jl 31 '25; Electrician 95:124+, 125 Jl 31 '25; Elec R (Lond) 97:212-14 Ag 7 '25

London studio of the British broadcasting company. il Elec R (Lond) 93:886 D 14 '23

New 2LO transmitting plant. Elec R (Lond) 96:435, 646 Mr 13, Ap 24 '25; Electrician 94: 299 Mr 13 '25; Engineer 139:306-7 Mr 13 '25

France

Radio-Paris plans to install 10-kilowatt equipment so you'll hear French programs. A. C. Granbeck. il Wireless Age 12:17-19+ F '25

Germany

Der rundfunksender am magdeburger platz. F. Pahl. il Elektrotech Zeit 45:748-9 Jl 10 '24

Italy

Die grossfunkstelle Coltano. diags Elektrotech Zeit 46:706-7 My 7 '25

Mexico

Mexican broadcast station CYL. il Radio N 5: 1560+ My '24

United States

Amrad WGI. il Wireless Age 11:36-8 D '23

Broadcasting station de luxe; private station of Colonel Green, WMAF. il Radio N 5: 874+ Ja '24

Broadcasting station without a studio: WCAP. S. R. Winters. Wireless Age 11:38 D '23

Broadcasting stations, alphabetically by names of stations. p. 55-7 U.S. Dept. of commerce, Bur. of navigation, Washington '25

Denver broadcasting station is model installation. il J Elec 54:148 F 15 '25

Equipment of KDKA. D. G. Little. diags Electrician 92:8-9 Ja 4 '24

RADIO broadcasting stations—United States —*Continued*

Les grandes stations de radiophonie aux Etats-Unis; stations W.G.Y. de Schenectady, et W.J.Y.-W.J.Z., de New York. J. Lynn. il diags Génie Civil 83:557-63 D 8 '23

KFI super-power station of the West. il Radio N 6:2064+ My '25

KGO on the Pacific; General electric company's Pacific broadcasting unit. E. Ennis. il Wireless Age 11:23+ F '24

Pacific coast stations. R. L. Power. Wireless Age 12:28-9 Ja '25

Putting WRNY on the air. G. V. Willets. Radio N 7:147 Ag '25

Radio broadcasting station KGO; General electric company, Oakland, California. A. Stein, jr. il diag plans Gen Elec R 27:151-63 Mr '24

Radio broadcasting studio of 1924; station WEAF in New York city. il Sci Am 130: 301 My '24

Radio map of the United States. Radio N 5: 1262-3 Mr '24

Radio station KFKX; the repeating broadcasting station at Hastings, Nebr. D. G. Little and F. Falknor. il diags Elec J 21: 25-30 Ja '24

Stations broadcasting market or weather reports, music, concerts, lectures, etc., alphabetically by call letters. p. 58-68 U.S. Dept. of commerce, Bur. of navigation, Washington '25; Additions and revisions published in monthly numbers of Radio service bulletin

Sunset station of the West; KGO. il Radio N 5:1411+ Ap '24

This is station WABI; Bangor railway & electric company operating the most easterly radio broadcasting station in the United States. W. G. Burrill. il Aera 13:1161-4 F '25; Same cond. Elec W 85:157 Ja 17 '25

Where the Great White Way begins; station WMCA. G. M. Goldman. il Wireless Age 12: 46-7+ Ap '25

RADIO cabinets

Furniture for wireless sets. il Electrician 93: 414 O 10 '24

Radio cabinets. H. P. Strand. il diags Wireless Age 12:26+ My '25

RADIO circuits

About radio losses. W. Taylor. il diags Radio N 6:1878-9+ Ap '25

Balanced C.W. circuit for quick wave-length changes. J: L. Reinartz. il diags Radio N 5:890-1 Ja '24

Circuitgrams broadcast by WRNY. H. Gernsback. diags Radio N 7:62-3 Jl '25

Colpitts' push-pull circuit kills distortion. S: C. Miller. diags Wireless Age 11:34-5+ Mr '24

Coupling between two oscillatory circuits, with some applications. L. S. Palmer and H. W. Forshaw. diags Inst E E J 62:895-900 O '24

Filament circuits explained. J: R. Meagher. diags Wireless Age 12:52+ D '24

Flewelling circuit. E. T. Flewelling. diag Wireless Age 11:55 Ap '24

Inductive troubles between transmission circuits and radio sets. diag Elec W 82:1122-3 D 1 '23

Investigation of the grid leak circuit. N. Wells. diags Elec R (Lond) 95:751-2 N 14 '24

Junk this radio jargon. G: H. Clark. Wireless Age 11:54+ F '24

Matching intermediate wave transformers for super-heterodynes. G. I. Mitchell. diags Radio N 6:51+ Jl '24

Monophase circuit. F. H. Dalet. il diags Radio N 6:2070-2 My '25

More solodyne circuits. A. D. Cowper. diags Radio N 6:330-1 S '24

Non-radiating one-tube reflex. W. P. Lukens. diags map Wireless Age 11:55+ My '24

Notes on the super-heterodyne. G. I. Mitchell. diags Radio N 6:492-3+ O '24

One-tube circuits. J: R. Meagher. diags Wireless Age 12:46-7+ N '24

One-tube transmitting circuits. J: R. Meagher. diags Wireless Age 12:54-5+ F '25

Possibilities of unique receiving circuits. M. S. Strock. il diags Radio N 5:1586-8+ My '24

Radio frequency circuits; the practical use of honeycomb coils and regeneration in radio frequency amplification. H: Baron. diags Wireless Age 11:64+ Je '24

Radio frequency solodyne receiver. G. V. Dowding and K. D. Rogers. il diag Radio N 6:468-9+ O '24

Radio micrometer. C. B. Bazzoni. il diags Radio N 6:2208-9+ Je '25

Resistance in wireless circuits. C. R. Fortescue. Engineer 139:265 Mr 6 '25

Resistoflex circuit. J: Scott-Taggart. il diags Radio N 6:1172-3+ Ja '25

Resonant circuit. J. M. Grigg. diags Radio N 6:700-1+ N '24

Saving tubes with reflex circuits. J: Scott-Taggart. diags Radio N 6:180-2+ Ag '24

Selective circuits and static interference. J: R. Carson. Am Inst E E J 43:1145 D '24; Discussion. 44:297-9 Mr '25

Single-tube circuits. L. W. Hatry. diags Radio N 7:310-11+ S '25

Solodyne circuit using standard tubes. A. D. Cowper. diags Radio N 6:157+ Ag '24

Solodyne principle. G. V. Dowding and K. D. Rogers. il diags Radio N 6:154-6+ Ag '24

Some effects of resistance in radio tuning circuits. S. Harris. il diags Radio N 6:2080-1+ My '25

Some loop aerial circuits. A. D. Cowper. diags Radio N 6:936+ D '24

Summarizing the autoplex. M. L. Muhleman. Radio N 5:1083+ F '24

Super-sensitive circuit for broadcast reception without an aerial. G. G. Blake. diag Elec R (Lond) 94:1033-4 Je 27 '24

Tropadyne circuit. C. J. Fitch. il diags Radio N 6:170-2+, 691+ Ag, N '24

Weagant receiving circuit. P. G. Watson. diags Radio N 5:1256+ Mr '24

Working vacuum tubes without B batteries—solodyne principle. J: Scott-Taggart. il Radio N 6:158-9+ Ag '24

Z circuit. S. D. Coffman. diag Radio N 6:687 N '24

See also Radio receiving apparatus

RADIO communication

AIL; fundamental principles and further illustrations of Ilo. M. Talmey. Wireless Age 12:18-19+ Je '25

AIL; the auxiliary international language problem as related to radio. M. Talmey. il Wireless Age 12:9-11+ Ap '25

AIL; the relationship of Ilo to the international language problem. M. Talmey. Wireless Age 12:18-19+ My '25

AIL; U. S. Ilo organizations—their function and activities. O. C. Roos. il Wireless Age 12:38+ Jl '25

Art of communication engineering. H. H. Harrison. diags Inst E E J 63:305-8 Mr '25; Abstract. Electrician 93:549 N 14 '24

Boy scouts of America; what radio owes to them and what they owe to radio. P. Boucheron. il Wireless Age 11:38-9+ Je '24

Cables and wireless and their rôle in the foreign relations of the United States. G: A. Schreiner. 269p Stratford co., Boston '24

Elements of radio communication, by E. W. Stone. 2d ed., rev. & enl. 318p [bibliog. p. 303-7] Van Nostrand '23; Review. Engineering 117:454 Ap 11 '24

Esperanto and Ido. J. D. Sayers. Radio N 6: 1179+ Ja '25

Esperanto as world radio language. J. D. Sayers. Wireless Age 12:18-19 Jl '25

Esperanto or Ilo—which? O. C. Roos. Radio N 6:471+ O '24; Discussion. 6:750+ N '24

Esperanto radio world language. J. D. Sayers. Radio N 6:169+ Ag '24

Fundamental transmission and reception. E. H. Hansen. il diags Radio N 6:1421+ F '25

How some problems in radio have been solved. E. F. W. Alexanderson. il Gen Elec R 27:373-9 Je '24

International radio association seeks to make Esperanto world radio language. Radio N 6:348 S '24

RADIO communication—*Continued*

Introduction to wireless telegraphy and telephony. J. A. Fleming. 112p Pitman '23

New theory of long distance radio-communication. G. W. O. Howe. Electrician 93:282-3, 402-3 S 12, O 10 '24

Opportunities in radio today. P. Boucheron. il Wireless Age 11:22-3+ D '23

Outline of radio. J: V. L. Hogan. 256p [bibliog. p. 239-45] Little, Brown & co., Boston '23

Overworked Heaviside layer problem and a possible alternative. G. W. O. Howe. Electrician 92:720 Je 13 '24

Practical radio including the testing of radio receiving sets. J. A. Moyer and J: F. Wostrel. 248p McGraw-Hill '24

Principles and practice of wireless transmission. G. Parr. 170p Van Nostrand '23

Production and use of ultra short wavelengths. R. Mesny. il diags Radio N 5:1566-7+ My '24

Progress of radio; an interview with Dr J. H. Dellinger. S. R. Winters. il Radio N 6: 902+ D '24

Promoting international understanding. J. J. Davis. Wireless Age 12:19+ O '24

Quarter century of radio. L. DeForest. Elec W 84:579-80 S 20 '24

Radio; a practical manual with questions and answers. J: R. Irwin. 314p E. J. Clode, New York '24

Radio amateur's handbook. A. F: Collins. 3d ed., rev. 413p Crowell '24

Radio and high frequency currents. E. T. Larner. 64p Van Nostrand '23

Radio auxiliary language for trans-oceanic work. O. C. Roos. Radio N 5:1565+ My '24

Radio beginner. A. P. Peck. il Radio N 6:34-6+, 173-4+, 322-4+, 466-7+ Jl-O '24

Radio for everybody. A. C. Lescarboura. 361p Scientific American pub. co., 233 Broadway, New York '24

Radio goes to the North pole. J: L. Reinartz. il diags Radio N 7:16-17 Jl '25

Radio in emergency communication. K. F. Dalton. Eng & Contr (Ry) 63:580 Mr 18 '25

Radio in 1925. H. Gernsback. il Radio N 6: 2050-1+ My '25

Radio laboratory manual. 71p U.S. Naval academy, Dept. of electrical engineering and physics, Annapolis '24

Radio notes. A. C. Lescarboura. Published in monthly numbers of Scientific American

Radio theory and operating. M. T. Loomis. 848p [bibliog. p. 807-10] Loomis pub. co., Washington '25

Radio with the Rice Amazon expedition. T. S. McCaleb. il Radio N 7:588-9+ N '25

RAILS: a radio language society. Wireless Age 11:48 My '24

Review of wireless in 1924. G. W. O. Howe. Electrician 94:32 Ja 9 '25

Robison's manual of radio telegraphy and telephony. S: S. Robison. 6th ed., rev. 895p United States naval institute, Annapolis, Md. '24

Secretary Hoover's address at the third annual radio conference. Wireless Age 12:43-4+ N '24

Short-wave radio communication; long-distance achievements by amateurs. il Elec R (Lond) 97:195 Jl 31 '25

Some radio developments in 1923. J: Liston. Radio N 5:1095+ F '24

Sound in its relation to radio. J: P. Minton. il diags Wireless Age 11:33-5+ Jl; 38-41+ Ag; 38-40 S; 12:40-1+ N '24; 39-41+ Ja '25

Survey of current progress in radio engineering. J. H. Dellinger. Am Inst E E J 44:52 Ja '25

Talks about radio. O. Lodge. 267p Doran '25

What is the Bureau of standards doing for radio? D. J. Hall. il Radio N 6:2210-11 Je '25

Why Radio news favors Esperanto. Radio N 6:937+ D '24

Wire lines and radio; how each help to make world's communications of greater use to mankind. R: H. Ranger. il diags Wireless Age 11:25-7 My '24

Wireless achievement and anticipation. O. Lodge. il Radio N 5:1394-5+ Ap '24

Wireless for the amateur. J. Roussel. 283p Van Nostrand '23

Wireless of to-day. C: R. Gibson and W: B. Cole. 318p Seeley, Service & co., ltd., London '24

Wireless possibilities. A. M. Low. 77p Dutton '24

Wireless section: chairman's address before wireless section of I.E.E. E. H. Shaughnessy. diags Inst E E J 63:60-5 D '24

Wireless theories. J. E. Taylor. Electrician 94:652+ Je 5 '25; Discussion. R. A. West. 94:728 Je 19 '25

See also Radio apparatus; Radio broadcasting; Radio laboratories; Radio telegraph; Radio telephone; Relays, Radio

Beam system

Beam system. K. M. MacIlvain. diags Wireless Age 12:44-7 D '24

Canadian wireless beam stations. Engineering 119:82-3 Ja 16 '25

Marconi wireless-beam reflector on Inchkeith. N. Wells. il diags Engineering 119:309-11 Mr 13 '25

Marconi's radio beam transmitter. C. Crawley. il Radio N 6:1624-5+ Mr '25

Les ondes courtes dirigées et leur utilisation; le phare radio-électrique d'Inchkeith (Écosse). il diags Génie Civil 87:43-5 Jl 11 '25

Problems of directive transmission in radiotelegraphy. G. W. O. Howe. diags Electrician 93:662-3 D 12 '24

Radio: beam and broadcast; its story and patents. A. H. Morse. 192p [bibliog. p. 187-8] E. Benn, ltd., London; Van Nostrand, N.Y. '25

Radio communication; abstracts. G. Marconi. diag map Engineer 138:706 D 19 '24; Engineering 118:836-7 D 19 '24; Elec R (Lond) 95:932-3 D 19 '24

Radio lighthouse. il Radio N 7:778-9+ D '25

La radiotélégraphie dirigée par ondes courtes. diags Génie Civil 85:430-1 N 8 '24

Results obtained over very long distances by short wave directional wireless telegraphy; abstracts. G. Marconi. il diags Engineer 138: 21, 245-7 Jl 4, Ag 29 '24; Elec R (Lond) 95: 155-7 Jl 25 '24; Electrician 93:43-4 Jl 11 '24

Revolving short-wave beam system. il chart diag Elec R (Lond) 97:411-12 S 11 '25; Electrician 95:296-7 S 11 '25

Theory of the wireless beam. B. H. White. diags Electrician 94:392-3, 424-5+ Ap 3-10 '25

Wireless beam. il diag Engineer 140:273-4 S 11 '25

Bibliography

References to current radio periodical literature. See monthly numbers of Radio service bulletin

Dictionaries

Standard electrical dictionary. T. O. Sloane. rev. & enl. ed. p. 769-90 Henley '24

History

History of radio. il Radio N 5:1730-2+ Je '24

History of radio inventions. A. H. Morse. il diags Radio N 6:2236-7+ Je '25

Important events in radio—peaks in the waves of wireless progress. Radio Serv Bul 83:22-8 Mr '24

Interference

Barometer and radio reception. M. J. Caveney. Radio N 6:933+ D '24

Beneficence of atmospherics. R. A. W. Watt. il (supp) Roy Aeronautical Soc J 29:62-72; Discussion. 72-5 F '25

Energy of atmospherics. T. L. Eckersley. Electrician 93:150-1+ Ag 8 '24

Gleichzeitige atmosphärische störungen in der drahtlosen telegraphie; abstract. M. Bäumler. Electrotech Zeit 45:81 Ja 31 '24

RADIO communication—Interference—*Cont.*

Heavy static predicted this year; astronomer believes static is caused by sun spot eruptions. D: Todd. il Wireless Age 11:21-3+ Ap '24; Discussion. 11:38 My '24

Interference from harmonics. Radio Serv Bul 92:8-9 D '24

Interference with broadcast reception by oscillating receivers. diag Engineer 140:210 Ag 28 '25

Local reflection of wireless waves from the upper atmosphere. E. V. Appleton and A. F. Barnett. Engineer 139:441-2 Ap 17 '25

Radio interference problem and the power company. L. J. Corbett. Am Inst E E J 44: 1057-63 O '25; Discussion. 44:1348-51 D '25

Super-power broadcasting; an interview with J. H. Doellinger. S. R. Winters. il Radio N 7:183 Ag '25

Transmission lines and interference with radio. S. Kruse. Elec W 85:1080 My 23 '25

Über störungen des rundspruchempfangs durch den strassenbahnbetrieb und ihre beseitigung. F. Eppen. diag Elektrotech Zeit 45:817-19 Jl 31 '24

Interference elimination

Atmospherics and their effect on wireless receivers. E. B. Moullin. Inst E E J 62:353-66 Ap '24; Abstract. Electrician 92:226 F 22 '24; Discussion. Inst E E J 62:366-72 Ap '24

Balancing systems. J: R. Meagher. diags Wireless Age 12:30-1+ Je '25

Clearing the ether of electric power noises. Radio N 6:657+ N '24

Correction of radio interference. Elec W 85: 622 Mr 21 '25

Directional reception reduces interference. P. C. Hoernel. il diags Radio N 7:290-1+ S '25

Eliminating interference. J. R. Balsley. diags Radio N 5:898+, 1581+ Ja, My '24

Elimination of radio disturbances caused by Cottrell precipitators. R. E. Boehler. diags Elec J 21:422-4 S '24

Fighting interference. J. H. Dellinger. Radio N 6:1415+ F '25

Interference from spark stations not preventable at receiving end. Hazeltine. Radio N 5:1191+ F '24

Interference question. D. V. Johnson. Radio N 5:1618+ My '24

Investigation of power circuit interference in radio; report of radio subcommittee of N.E. L. A. N E L A Bul 11:511-13 Ag '24

Lessening of radio interference. L: A. Hazeltine. Stevens Ind 41:127-9 O '24

McCaa static eliminator. E: B. Patterson and L. G. Biles. il Radio N 6:2241-3+ Je '25

Radio interference elimination. R. H. White. diags Elec R (Lond) 95:464-5, 565-7, 644-5 S 26, O 17, 31 '24

Radio interference from electrical precipitators. Radio Serv Bul 88:9 Ag '24

Reducing the summer static nuisance. L. W. Hatry. il diags Radio N 6:183 Ag '24

Report of an investigation of interference caused by a Cottrell electric precipitator. Radio Serv Bul 86:8-9 Je '24

Report of investigation of power line interference in Augusta, Ga. Radio Ser Bul 86:9-11 Je '24

Selective circuits and static interference. J: R. Carson. Am Inst E E J 43:1145 D '24; Discussion. 44:297-9 Mr '25

Some causes of interference—their definition and elimination. G. W. O. Howe. Electrician 95:174+ Ag 14 '25

Timely suggestions. H. S. Pyle. diags Radio N 6:37+ Jl '24

Whistling interference. W. P. Powers. diags Radio N 5:1580-1 My '24

Will static be conquered? Sci Am 132:422+ Je '25

Periodicals

Radio magazines. Ptg Art 43:31-8 Mr '24

Safety devices and measures

See Radio apparatus—Safety devices and measures; Radio laws and regulations

Study and teaching

Radio engineering; a home-laboratory course in simple and advanced radio design. J: R. Meagher. Published in monthly numbers of Wireless age

Tables, calculations, etc.

Analyzing high frequency resistance of single-layer coils. S. Harris. Radio N 6:1174+, 1425+ Ja-F '25

Charts for determination of inductance and wave-length. L. F. Southwick. Radio N 6: 1430-1+ F '25

Die erdungsfrage bei antennen und die verminderung der erdverluste. Dr. Hamm. diags Elektrotech Zeit 45:1309-12 N 27 '24

Little journeys into radio computations. C. Dreher. charts Wireless Age 11:36-7+ F '24

What vacuum tube curves mean. R. W. Hallows. il diags Radio N 6:698-9+ N '24

See also Radio telegraph—Tables, calculations, etc.

Terminology

British standard list of terms and definitions used in radio communication. 23p C. Lockwood & son, London '23

Glossary of radio terms; compiled by Lester Maxwell. Radio N 6:599+ O '24

Arctic regions

Radio at the North pole. O. E. Dunlap, jr. il map Sci Am 133:93 Ag '25

Austria

Popular radio coming in Austria. A. Perry. il Radio N 5:1049+ F '24

Ceylon

Radio in Ceylon. H. D. Clement. Radio N 5: 1569+ My '24

Far East

Radio in the Far East. J. H. Maade. Radio N 5:1003+ Ja '24

Germany

Neureglung des funkwesens. H. Thurn. map Elektrotech Zeit 45:969-72, 1003-6, 1036 S 11-25 '24

Radio in Germany. il Radio N 5:1577+ My '24

Radio in Germany. S. McClatchie. Radio N 6: 1022+ D '24

Radio in Germany. E. Nesper. il Radio N 7:412-13+ O '25

Japan

Radio progress in Japan. Wireless Age 11:50-1 F '24

Russia

Russia's radio laboratory. W. K. Lebedinsky. il diags Radio N 6:1638-9, 1867+ Mr-Ap '25

Sumatra

Prospective radio development in Sumatra. Radio Serv Bul 89:9 S '24

United States

Naval radio development. A. H. Taylor. Radio N 6:1479+ F '25

Radio brings commerce back to the rivers. A. Richardson. il Manuf Rec 88:97-8 S 3 '25

Urges government radio policy and laws. H. Hoover. Radio N 5:1192+ F '24

War department radio net. A. V. Hill. Sci Am 130:400 Je '24

RADIO communication, Effect of eclipses on

Changes observed in the direction of radio signals at the time of the eclipse of January 24, 1925. E. Merritt, C. C. Bidwell and H. J. Reich. J Fr Inst 199:485-92 Ap '25

Eclipse and radio reception. G. C. B. Rowe. il Radio N 6:1846-7+ Ap '25

Effects of the eclipse on radio. A. P. Lane and F. X. Walsh. il map Sci Am 132:224-6 Ap '25

Our own radio investigation. Sci Am 132:16 Ja '25

Solar eclipse and wireless signals. W. H. Eccles. Electrician 94:208 F 20 '25

RADIO communication, Effect of eclipses on
—*Continued*
Story of the eclipse. il Wireless Age 12:42-3 Mr '25
Wireless and the solar eclipse. A. E. Cotterell. Elec R (Lond) 96:390-1 Mr 6 '25; Discussion. 96:730-1; 97:279-80 My 8, Ag 14 '25
Wireless measurements during the solar eclipse. diags Elec R (Lond) 96:214 F 6 '25; Same cond. Electrician 94:152-3 F 6 '25

RADIO communication, Marine
Broadcasting from mid-ocean. il Sci Am 132:421 Je '25
Charting the ice-fields; how life and property is protected by radio-equipped coast guard cutters. S. R. Summers. il Wireless Age 12: 42-3+ Ap '25
Coast guard cutters on North Atlantic ice patrol equipped with powerful new radio transmitters. il Marine Eng 30:269-70 My '25
Improving marine radio service. Marine R 55: 63-4 F '25
Modern marine wireless equipment. R: Twelvetrees. il Electrician 95:35-6 Jl 10 '25
Radio communication for directing marine equipment. Ry R 76:126 Ja 10 '25
Tug boat dispatching. P. P. Hand. il Wireless Age 12:38 Mr '25
Two-kilowatt U.S. Coast guard radio equipment. I. F. Byrnes. il diags Gen Elec R 28:549-53 Ag '25

See also Radio telegraph on ships; Radio telephone on ships

RADIO communication, Underground
Developing the radio for underground use. C. L. Colburn. Nat Safety N 9:35 Mr '24
Factors retarding transmission of radio signals underground, and some further experiments and conclusions. J. J. Jakosky and D. H. Zellers. diag U S Bur Mines Rep of Invest 2651:1-10 N '24 (typew)
Mine rescue communication system of the future. J. J. Jakosky. Coal Age 25:139-40 Ja 24 '24
Radio as a method for underground communication in mines. J. J. Jakosky. U S Bur Mines Rep of Invest 2599:1-6 Ap '24 (typew); Same. Coal Age 25:801-4 My 29 '24
Radio in the cave disaster. C. W. Williams. il Radio N 6:2073+ My '25
Radio waves picked up eighty feet underground. il Radio N 5:1224+ Mr '24
Underground radio. W. H. M. Watson. il diags plan Radio N 7:301-3+ S '25
Underground radio. S. R. Winters. il Radio N 6:1868-9 Ap '25
Underground signalling for mines by the ground-conduction or T.P.S. method. J. J. Jakosky. U S Bur Mines Rep of Invest 2576: 1-11 '24 (typew); Same. Coal Age 25:529-34 Ap 10 '24; Abstract. Safety Eng 47:250-2 My '24
Will the future broadcast station be buried? S. R. Winters. il Radio N 5:1733+ Je '24

RADIO compass
German radio compass for shipboard. A. Neuburger. il Radio N 5:885+ Ja '24
List of vessels equipped with Kolster radiocompass. Radio Serv Bul 85:11 My '24
La navigation aérienne guidée par un champ électromagnétique. Génie Civil 84:623-5 Je 28 '24
New Pioneer earth inductor compass. il Aviation 18:643 Je 8 '25
New portable radio compass. S. R. Winters. il diags Radio N 5:1572-3 My '24
Les procédés modernes de navigation aérienne; le compas Morel. F. Collin. diags Génie Civil 86:312 Mr 28 '25
Radio compass bearings. F. H. Walker. il diag Wireless Age 12:57+ Mr '25

See also Radio compass stations

RADIO compass stations
Compass station in China. Radio Serv Bul 89:7-8 S '24
Compass stations established at Ferrol, Spain, and at Niton, England. Radio Serv Bul 93: 14-16 Ja '25
Naval radio compass stations instructions. In Commercial and government radio stations of the United States. p. 102-6 U.S. Dept. of commerce, Bur. of navigation, Washington '25
Radiocompass station directions for German stations. Radio Serv Bul 85:12-13 My '24

RADIO condensers
All about verniers. S. Harris. il diags Radio N 7:54-6+ Jl '25
Analysis of condenser resistance. S. Harris. il Radio N 6:1668-9+ Mr '25
Condensers; how to choose the right one for your circuit. D. G. Ward. il diag Wireless Age 11:62-3 Je; 50-1+ Jl '24
Does a straight-line frequency condenser exist? S. Harris. diag Radio N 7:447+ O '25
Electrolytic condensers. T. A. Smith and J. Millen. diags Radio N 7:808-9+ D '25
Modern radio apparatus—condensers. J. Marsten. il diags Radio N 5:1250-1+ Mr '24
New types of variable condensers. il Sci Am 132:276 Ap '25
Straight line condensers. S. R. Winters. il Wireless Age 12:24+ Ap '25
Straight-line frequency condensers. S. Harris. il diags Radio N 7:188-90+, 308-9 Ag-S '25

RADIO conference, National. See National radio conference

RADIO control
La commande à distance de relais par T.S.F. au moyen de lampes triodes. Génie Civil 87: 135 Ag 8 '25
La commande à distance par ondes hertziennes; l'emploi des relais à arc de mercure. H. Bouillet. il diags Génie Civil 86:581-6, 605-7 Je 13-20 '25
First radio-controlled substation. Elec W 84: 479 S 6 '24
Pilotless airplanes; abstract. E. Marcotte. Mech Eng 46:898 D '24
Radio-controlled automobile. H. Green. il diag Radio N 7:592+ N '25
Radio-controlled automobile. P. B. Hance, jr. il diag Radio N 7:774-5 D '25
Will radio make our railroads safe? H. S. Pyle. il diags Radio N 6:903+ D '24

RADIO corporation of America
Annual report, 1923. Comm & Fin Chr 118:2570 My 24 '24
Annual report, year ended Dec. 31, 1924. Comm & Fin Chr 120:2679-80 My 23 '25
Federal trade commission says company is most important factor in radio industry—finds monopoly. Comm & Fin Chr 117:2551-2 D 8 '23; Excerpt. Elec W 82:1189 D 8 '23

RADIO detectors
Alkali-vapor detector tubes. H. A. Brown and C: T. Knipp. il diags Ill U Eng Exp Sta Bul 138:1-37 '23; Same cond. Am Inst E E J 43:26-32 Ja '24; Discussion. 43:1068-9 N '24
Chemical aspects of radio. C. Marx. Chem Age 32:353-5, 383-5 Ag-S '24
Effective range of crystal receivers. G. G. Blake. diags Elec R (Lond) 95:348-9 S 5 '24
Efficient crystal detector. R. Hutchison. il diags Radio N 6:2082+ My '25
How a detector detects. V. C. MacNabb. il diags Radio N 6:2244-5+ Je '25
How your detector tube works. A. P. Peck. diags Radio N 7:314-15+ S '25
Loud speaker works on crystal. S. A. Huss. il Radio N 6:178+ Ag '24
Sodion radio detector tube. H. P. Doule. Electrician 91:635 D 7 '23
Wireless receivers with crystal detectors. T: Carter. Elec R (Lond) 96:249-50 F 13 '25

RADIO engineering
Application of radio engineering principles to submarine telegraph cables. G: O. Squier. il diags J Fr Inst 198:29-56 Jl '24
Survey of current progress in radio engineering. J. H. Dellinger. W Soc E J 30:39-49 F '25; Excerpts. Radio N 6:1633+ Mr '25

See also Radio broadcasting stations; Radio stations; Radio telegraph; Radio telephone

RADIO engineers
Your future as a radio engineer. M. B. Sleeper. il Wireless Age 11:56-7+ My '24

RADIO fog signals
New radio for signals to be established. Radio Serv Bul 101:8 S '25
Radio fog signal. Radio Serv Bul 92:11 D '24; 93:12-13 Ja '25
Radio fog signal stations of the United States Lighthouse service. In Commercial and government radio stations of the United States. p. 99-101. U.S. Dept. of commerce, Bur. of navigation, Washington '25

RADIO frequency. See Radio measurement

RADIO furnace. See Electric furnaces, High frequency

RADIO generators
New method of generating high frequency currents. G. W. O. Howe. diags Electrician 94:534+ My 8 '25
Valve as oscillation generator. D. G. Bower. Electrician 95:412+ O 9 '25

RADIO horns. See Horns (loud speakers); Radio loud speakers

RADIO laboratories
Activities of the Radio News laboratories. il Radio N 7:50-1 Jl '25
53-acre radio transmitter laboratory of the General electric co. W. T. Meenam. il Wireless Age 12:32+ My '25
Russia's radio laboratory. W. K. Lebedinsky. il diags Radio N 6:1638-9, 1867+ Mr-Ap '25
University radio laboratory. J. H. Wright. il Radio N 6:1848-9+ Ap '25

RADIO laws and regulations
Air as a raw material. W. S. Rogers. Ann Am Acad 112:251-5 Mr '24
British wireless act. Radio Serv Bul 84:14-16 Ap '24
Digest of representative White's radio bill of 1923. Radio N 5:1535+ Ap '24
Effect of cable and radio control on news and commerce. W. L. Rodgers. Ann Am Acad 112:240-51 Mr '24
Hearings on the radio bill. C. H. Butman. il Radio N 5:1736+ Je '24
Hoover wants no new radio laws. Radio N 6:1383+ F '25; Excerpts. Elec W 84:1274 D 13 '24
Neureglung des funkwesens. H. Thurn. map Elektrotech Zeit 45:969-72, 1003-6, 1036 S 11-25 '24
Recommendations for regulation of radio adopted by the third National radio conference called by Herbert Hoover. 35p U.S. Dept. of commerce, Washington '24
Regulations governing the operation of amateur stations. Radio Serv Bul 93:11 Ja '25
Wireless telegraphy bill. W. H. Stoker. Elec R (Lond) 96:325-7 F 27 '25

RADIO losses
About radio losses. W. Taylor. il diags Radio N 6:1878-9+ Ap '25
What is low-loss? S. Harris. il Radio N 7: 28-9 Jl '25

RADIO loud speakers
Discussion on loud-speakers for wireless and other purposes. Inst E E J 62:265-98, 373-5 Mr-Ap '24; Abstracts. Elec R (Lond) 93: 870-3, 909-11; 94:314-15 D 7-14 '23, F 22 '24; Engineering 116:718 D 7 '23
Electric filters that illustrate defects of radio loudspeakers. P. B. Findley. Sci Am 132: 241 Ap '25
Function and design of horns for loud speakers. C. R. Hanna and J. Slepian. il diags Am Inst E E J 43:250-6 Mr '24
Grid-filament conductivity; its nature and effect on amplification. F. M. Colebrook. diags Electrician 91:574-5 N 23 '23
Improved loud speaker horn for indoor use. A. W. Shraep. diags Radio N 5:901+ Ja '24
Der lautsprecher Gaumont. diags Elektrotech Zeit 46:57-8 Ja 8 '25
Loud speaker works on crystal. S. A. Huss. il Radio N 6:178+ Ag '24
Loud speakers and how they work. E. Alexander. il diags Radio N 5:1396-7+ Ap '24
Loud speakers and reception. J: P. Minton. il diags Wireless Age 12:39-41+ Ja; 42-3+ F; 40-1+ Mr; 15-17+ Je; 16-17+ Jl '25
Loudspeakers of today and tomorrow. il Sci Am 131:390 D '24
Make your own loud speaker. M. Abel. il Wireless Age 11:55 Mr '24
Mica diaphragm phones as loud speakers. L. R. Jones. diags Radio N 6:52 Jl '24
New hornless loudspeaker described by inventors. C. W. Rice and E. W. Kellogg. il Sci Am 133:136 Ag '25
Notes on loud-speaker design. M. A. Codd. il diags Elec R (Lond) 96:205-6 F 6 '25
Radio and the public address system. W. S. Thompson, jr. il diags Radio N 5:1398-1400 Ap '24
Remarkable new loud speaker. N: Langer. il Radio N 6:296+ S '24
Selecting loud speakers. A. N. Goldsmith. Wireless Age 11:33+ Je '24
Some essentials of good loud-speaker reproduction. R. Robert. Elec R (Lond) 96:4-5 Ja 2 '25; Discussion. 96:92-3, 158, 210 Ja 16-23, F 6 '25
Ten-cent store loud speaker. J. Hollander. il Radio N 7:181+ Ag '25
Theoretical and practical features of loud speakers discussed. Electrician 91:634-5; 92:227 D 7 '23, F 22 '24
Use of headphones and loud speakers. L: Frank. diags Radio N 5:1085+ F '24
Victor clock-shaped loudspeaker. il Sci Am 133:139 Ag '25

RADIO magazines. See Radio communication—Periodicals

RADIO measurement
Applying the yardstick to radio waves. il Sci Am 131:34 Jl '24
Atlantic radio telephone transmission. L. Espenschied, C. N. Anderson and A. Bailey. Electrician 95:175-7 Ag 14 '25
Comparison of methods of measuring radio field intensities. Radio Serv Bul 98:17 Je '25
Current-transformer methods of producing small, known voltages and currents at radio frequencies for calibrating purposes. D. W. Dye. diags Inst E E J 63:597-603; Discussion. 603-8 Je '25
Determination of elementary charge E from measurements of shot-effect. A. W. Hull and N. H. Williams. diags Phys R 25:147-73 F '25
Empfangs- und störungsmessungen in der drahtlosen telegraphie und telephonie. G. Anders. il diags Elektrotech Zeit 45:1439-42 D 25 '24
Facts and fancies in long distance transmission. G. W. O. Howe. Electrician 94:298 Mr 13 '25
How earth's rotation sets radio frequencies. P. B. Findley. il diags Radio N 6:1404-6+ F '25
Measurement of field intensity of broadcasting stations. Radio Serv Bul 101:18-19 S '25
Measurement of frequency and allied quantities in wireless telegraphy. K. E. Edgeworth and G. W. N. Cobbold. Inst E E J 63:919-20; Discussion. 920-2 S '25
Measurements at radio frequency. A. Hund. diags Elec W 84:998-1000 N 8 '24; Excerpt. Electrician 93:663 D 12 '24
Potentiometer arrangement for measuring microvoltages at radio frequencies. A. G. Jensen. diag Phys R 26:118-20 Jl '25
Primary radio-frequency standardization by use of the cathode-ray oscillograph. G. Hazen and F. Kenyon. il diags U S Bur Stand Sci Pa 489:445-61 '24
Radio instruments and measurements. il diags U S Bur Stand Circ 74:1-324; Bibliography. 325-34 '24
Radiotoneotype; an apparatus to determine the acoustic period of vibrating members. L. Spencer. diags Radio N 6:1875+ Ap '25
Report on measurements made on signal strength at great distances during 1922 and 1923 by an expedition sent to Australia. H.

RADIO measurement—*Continued*
J. Round and others. charts diags maps Inst E E J 63:933-1001 O '25; Abstract. Electrician 94:538-9 My 8 '25; Discussion. Inst E E J 63:1001-11 O '25
Standardizing the ultra radio frequencies. F. W. Dunmore and F. H. Engel. il diags Radio N 5:1392-3+ Ap '24
Study of reactance. S. Harris. il diags Radio N 7:66-7+ Jl '25
Theory, construction and use of an inductance-capacity bridge. P. H. Craig. diags Radio N 5:1080-1+ F '24
Theory of determination of ultra-radio frequencies by standing waves on wires. A. Hund. diags U S Bur Stand Sci Pa 491:487-540 '24

See also Oscillators, Crystal; Radio circuits; Radio standards

RADIO operators
Adventures of a radio operator. W. S. Fitzpatrick. il Wireless Age 11:41-3 S '24

RADIO receiving apparatus
All-purpose receiver. M. B. Sleeper. il diags plan Radio N 5:1254-6 Mr '24
A.C. applied to receiving sets. F. J. Fox. il diags Radio N 6:314-15 S '24
Another three-range receiver. il diag Radio N 7:448-9 O '25
Application of the periodogram to wireless telegraphy. C. R. Burch and J. Bloemsma. Philos Mag 6th ser 49:480-503 F '25
At the flip of the dial. A. C. Lescarboura. il Wireless Age 12:17-20+ Ja '25
Atmospherics and their effect on wireless receivers. E. B. Moullin. Inst E E J 62:353-66 Ap '24; Abstract. Electrician 92:226 F 22 '24; Discussion. Inst E E J 62:366-72 Ap '24
Automatic tickler adjuster. diag Radio N 7:318 S '25
Balanced interflex circuit. H. Gernsback. il diags Radio N 7:440-3+ O '25
Basic circuits of present-day receiving sets. Sci Am 131:371 N '24
Broadcasting receiving apparatus; the trend of progress. W. L. McPherson. il Electrician 95:352-4 S 25 '25
Building a neutrodyne and making it "neut." L. D. Cushman. il Radio N 5:1252-3 Mr '24
Building compact super-heterodynes. D. J. Hall. il diag Radio N 6:1880-1+ Ap '25
Buying a radio set. A. P. Peck. il Radio N 6:2246-8+ Je '25
Cascade regenerative receiver. il diags Radio N 6:684-6 N '24
Chicago tribune radio book. 84p Public service bureau of the Chicago tribune, Chicago '25
Choosing and installing a receiving set. P. L. Worthington. il Radio N 5:1579+ My '24
Commercial receivers and accessories. il Electrician 93:289-91 S 12 '24
Construction of radio receiving sets. L. D. Perry and R. O. Buck. 69p Bruce pub. co., Milwaukee '24
Counterphase circuit. J. T. Carlton. il diags Radio N 7:616-17 N '25
Crystodyne principle. il diags Radio N 6:294-5+ S '24
Crystodyne receivers and amplifiers. I. Podliasky. diags Radio N 6:470+ O '24
D-coil again! R. A. Bradley. il diags Wireless Age 12:38-41 O '24
D-coil and DX. il Wireless Age 12:52+ Mr '25
D-coil; commendable layout of the Wireless Age receiver. K. M. MacIlvain. il Wireless Age 12:17+ My '25
D-coil receiver. K. M. MacIlvain. il diags Wireless Age 11:34-6+ Je '24
Damping in reception. L. B. Turner and F. P. Best. Electrician 94:179 F 13 '25
Deluxe radio lyre. O. B. Scott. il diags Wireless Age 12:20-1+ Je '25
Design of an all-purpose broadcast receiver. R. Robert. diags Elec R (Lond) 96:168-9 Ja 30 '25
Design your own low loss coils. S. Harris. il Radio N 6:2249+ Je '25
Direct-coupled regenerative r.f. receiver. K. M. MacIlvain. il diags Wireless Age 12:16-17+ Ap; 24+ My '25
Distortionless broadcast reception. H. J. Round. diags Radio N 6:50+ Jl '24
Distributed capacity of radio receiver coils. R. R. Batcher. diags Wireless Age 11:62+ S '24
Double regenerative reflex receiver. R. A. Bradley. il diags Wireless Age 11:44-6 S '24
Dozen sets on one antenna. S. R. Winters. il diag Radio N 7:787+ D '25
DX go-getter. R. A. Bradley. il diag Wireless Age 12:34-5+ D '24
DX receiver for amateur waves. L. W. Hatry. il diag Radio N 5:1248-9 Mr '24
Effective range of crystal receivers. G. G. Blake. diags Elec R (Lond) 95:348-9 S 5 '24
Efficient wireless receiver; the seven-valve supersonic. il Engineer 139:470 Ap 24 '25
Extending the broadcast range. S. Harris. il Radio N 7:446+ O '25
Family receiver. R. A. Bradley. il diag Wireless Age 12:36-7+ N '24
5-tube fusidine. A. H. Cubberly. il diags Wireless Age 11:52-3+ Ag '24
Four tube set with crystal detector. R. A. Bradley. il diag Wireless Age 11:34-6 Ap '24
Getting the most from crystal sets. A. P. Peck. il diags Radio N 7:628-9+ N '25
Good short wave receiver. il diags Radio N 6:1412-13 F '25
Heating valve filaments by alternating current. W. Redmayne. diags Elec R (Lond) 96:128-30, 549 Ja 23, Ap 3 '25
Henley's workable radio receivers, their design and construction. J: E. Anderson and E. H. Lewis. 196p Henley '24
Highly efficient short-wave receiver. R. B. Bourne. il diag Wireless Age 11:58-9+ My '24
Hints on receiving sets. L: Frank. diags Radio N 5:1750+ Je '24
Home comforts. C. Frederick. il Wireless Age 12:36-8+ Ja '25
How to build a battery control panel. R. G. Lawrence. il diags Radio N 6:942+ D '24
How to build a crystodyne receiver. il diags Radio N 6:676-7 N '24
How to build a very low-loss receiver. R. A. Bradley. il diag Wireless Age 12:34-5+ F '25
How to build an ultra short wave receiver. il diags Radio N 6:1642-3 Mr '25
How to build radio sets. H. E. Benedict. il Radio N 6:175+ Ag '24
How to build the one-control regenerative receiver. R. A. Bradley. il diags Wireless Age 12:42-3+ Ja '25
How to build your radio receiver. K. Banning and L. M. Cockaday, eds. 100p Popular radio, New York '24
How to identify the enemies of good reproduction. E. H. Felix. il Radio N 6:2214-15+ Je '25
How to make a five tube neutrodyne receiving set. 24p Radio digest, Chicago '24
How to make basket-weave coils. il Radio N 7:182 Ag '25
How to make the radio broadcast knock-out four-tube Roberts receiver. J: B. Brennan. 14p Doubleday '24
Hoyt augmentor circuit. F. R. Hoyt. il diags Radio N 7:44-5 Jl '25
Ideal low-loss broadcast receiver. C. J. Fitch. il diags Radio N 6:1162-3+ Ja '25
Importance of the trivial. O. Lodge. il Radio N 6:28-9+, 176-7+ Jl-Ag '24
Improve your set. E. T. Johnstone. diags Wireless Age 11:56-7+ Mr '24
Improved superdyne six-tubes. il diags Wireless Age 11:34-5 My '24
Improvements on the super-heterodyne receiver. il diags Radio N 5:1576 My '24
Increasing the range of your super-heterodyne. W: J. Smith. il diags Wireless Age 11:37 Je '24
Interflex circuit. H. Gernsback. il diags plan Radio N 7:298-300+ S '25
Isofarad receiver. B. P. Minnium. il diags Radio N 7:797+ D '25
Keeping the set in shape. Sci Am 131:336 N '24
Latest in tuned radio frequency. A. Reed. il diags Radio N 6:1876-7 Ap '25

RADIO receiving apparatus—*Continued*
Low loss short wave set. J: Scott-Taggart. il diags Radio N 6:1897+ Ap '25
Marconi general utility receivers. il Electrician 93:553+ N 14 '24
Marconi receivers. il Electrician 94:33+ Ja 9 '25
Menace to radio broadcasting. M. L. Muhleman. il Radio N 5:1403+ Ap '24
Modern radio reception. C: R. Leutz. 337p Experimenters information service, inc., New York '25
Modifying the Reinartz. W. P. Lukens. il diags Wireless Age 12:40-1+ F '25
More solodyne circuits. A. D. Cowper. diags Radio N 6:330-1 S '24
Most novel super-heterodyne. D. C. Wilkerson. diags Radio N 6:2076-7+ My '25
Most selective set. A. R. Marcy. diags Radio N 6:2078+ My '25
Multi-stage radio frequency amplification. J: Scott-Taggart. il diags Radio N 6:688-90+, 928-30+, 1171+, 1407-9+ N '24-F '25
Neutrodyne receivers. A. L. Groves. il diags Radio N 6:316-17+ S '24; Discussion. E. T. Earnest. 6:947+ D '24
New ideas in receivers. G. C. B. Rowe. il Radio N 7:430-1, 608-9 O-N '25
New invention for selective reception. J: Scott-Taggart. diags Radio N 5:1056-7+ F '24
New radiation eliminator. il diag Radio N 6:2094 My '25
New radio developments in Germany. S. McClatchie. il Radio N 7:782-3 D '25
New super-heterodyne. M. Silver. il diags Radio N 7:444-5+ O '25
New two-range receiver. S. Harris. il diag Radio N 7:610-11 N '25
Non-radiating R.F. receiver. il diags Radio N 7:49+ Jl '25
Non-radiating regenerative receivers. C. J. Fitch. diags Radio N 6:496+ O '24
Notes on the autoplex receiver. M. L. Muhleman. diags Radio N 5:900-1 Ja '24
Old Dobbin circuit. J. Riley. il diag Radio N 6:1675+ Mr '25
Original reflex receiver. E. S. Watkins. il diag Radio N 5:902-3 Ja '24
Oscillation controlled R. F. receiver. R. Alan. il diags Wireless Age 11:54-5+ S '24
Oscillations and how they are overcome. L. L. Adelman. diags Radio N 6:2083-5 My '25
Periodic trigger reception. E. V. Appleton and F. S. Thompson. diags Inst E E J 62:181-6; Discussion. 187-91 F '24
Practical neutrodyne receiver. A. T. Hanscom. diags Radio N 5:899+ Ja '24
Practical notes on the reception of very short waves. A. L. M. Douglas. diags Elec R (Lond) 94:269-70 F 15 '24
Principles of C.W. and radiophone transmission and reception. L. R. Felder. il diag Radio N 6:191+ Ag '24
Progress in radio receiving during 1924. A. N. Goldsmith. il Gen Elec R 28:59-62 Ja '25
Push-button radio. B. Foote. il diags Radio N 7:178-80 Ag '25
Quality and DX with 5-tubes. R. A. Bradley. il diags Wireless Age 12:12-13+ My '25
Radio beginner. A. P. Peck. il Radio N 6:34-6+, 173-4+, 322-4+, 466-7+ Jl-O '24
Radio frequency amplification, regeneration, and the single circuit receiver. D. G. Ward. il diags Wireless Age 11:51-4+ Ja '24
R.F. selector and radiation preventor; the penetrola. B. B. Minnium. il diags Radio N 7:624-5 N '25
Radio frequency solodyne receiver. G. V. Dowding and K. D. Rogers. il diag Radio N 6:468-9+ O '24
Radio lyre. O. B. Scott. il diag Wireless Age 12:49+ D '24
Radio reading course. J. H. Morecroft. 46p Radio courses, inc., 552 7th av., New York '24
Radio receivers, how to make and operate. H. J. Marx, comp. 122p Radio digest, Chicago '24
Radio set builders' book. M. B. Sleeper. 46p M. B. Sleeper, inc., New York '24
Radio sets of 1924. il Wireless Age 11:17-20 Ap '24
Reactodyne circuit. A. Reed. il diag Radio N 7:796+ D '25
Real one-control receiver. S. E. Finkelstein. il diag Wireless Age 12:20-1 My '25
Reception of the 100-meter signals. O. De L. Underwood. diag Radio N 5:1416+ Ap '24
Reflex radio receivers. P. E. Edelman. 51p E. I. co., 233 Fulton st., New York '24
Reflex radio receivers in theory and practice. J: Scott-Taggart. diags Radio N 6:318-21+, 494-5+, 1176-7+, 1416-17+, 1646-7, 1884-6 S-O '24, Ja-Ap '25
Reflex receiver with neutrodyne control. A. D. Cowper. il diag Radio N 6:49+ Jl '24
Reflexing a tuned radio frequency receiver. C. J. Fitch. il diags Radio N 6:188-9 Ag '24
Regeneration and the patent situation. J: B. Brady. diags Radio N 6:1424+ F '25
Regenerative D-coil. K. M. MacIlvain. diags Wireless Age 12:34-5+ Ja '25
Regenerative interflex. H. Gernsback. il diags Radio N 7:792-5+ D '25
Regenerative neutrodyne. A. L. Groves. il diags Radio N 6:1882-3+ Ap '25
Relations between damping and speed in wireless reception. L. B. Turner. Inst E E J 62:192-201; Discussion. 202-7 F '24
Reliable R.F. receiver. R. A. Bradley. il diags Wireless Age 12:32-3 Mr '25
Results of the Radio news home-built set contest. il diags Radio N 7:172-4, 304-5+ Ag-S '25
Sensitive short wave receiving apparatus at WBZ. il Radio N 6:293+ S '24
Short-wave adapter for broadcast receivers. C. J. Fitch. il Radio N 7:186-7 Ag '25
Short wave adapter for the broadcast receiver. J. L. Cassell. il diag Radio N 6:924-5+ D '24
Single control receivers. il diag Radio N 6:943 D '24
Six tube receiver of advanced design. il diags Radio N 6:327-9+ S '24
Solodyne principle. G. V. Dowding and K. D. Rogers. il diags Radio N 6:154-6+ Ag '24
Some difficulties of the superheterodyne. il Sci Am 132:350 My '25
Some experiments on the screening of radio receiving apparatus. R. H. Barfield. diags Inst E E J 62:249-62 Mr '24; Abstract. Elec R (Lond) 94:38 Ja 4 '24; Discussion. Inst E E J 62:262-4 Mr '24
Some methods for the fine adjustment of reaction. A. L. M. Douglas. diags Elec R (Lond) 94:445-6 Mr 21 '24
Some super-heterodyne notes. W. Taylor. il diags Radio N 6:1666-7+ Mr '25
Standard hook-ups. Published in monthly numbers of Radio news
Straightening out the radiation tangle. R. Batcher. il diags Radio N 5:1756+ Je '24
Super-DX Hi-F. receiver. R. E. Bogardus and R. A. Bradley. il diags Wireless Age 12:12-13+ Ap '25
Super-heterodyne. E. H. Armstrong. il diags Wireless Age 11:30-3 Ap '24
Super-heterodyne. A. M. Morse. Electrician 95:121 Jl 31 '25; Discussion. 95:182, 212 Ag 14-21 '25
Super-heterodyne for neatness and tone quality. il diag Radio N 7:306-7 S '25
Super-heterodyne hook-ups. M. B. Sleeper. 47p M. B. Sleeper, inc., New York '24
Super-heterodyne radio receiver. D. Robert. diags Elec R (Lond) 97:370-1 S 4 '25
Superheterodyne receiver. P. A. E. Armstrong. 36p Raven radio, inc., Albany, N.Y. '24
Super-heterodyne receiver. R. H. Langley. il Wireless Age 11:19+ My '24
Die technik des rundfunkempfangs. P. Gehne and W. Mönch. diags Zeit Ver Deutsch Ing 69:1243-8, 1626-30 S 26, D 26 '25
Three-range receiver. il diags Radio N 7:30-2+ Jl '25
Triple torus tuner. K. M. MacIlvain. il diags Wireless Age 12:20-1+ Jl '25
Tu-ra-flex radio receiver. il diags Radio N 6:1164-5 Ja '25
Twin control receiver. H. Mace. il diag Wireless Age 11:52-3 My '24
Ultradyne receiver. R. E. Lacault. il diags Radio N 5:1058-60, 1235, 1419+ F-Ap '24

RADIO receiving apparatus—*Continued*
Unique crystal set. L. L. Matson. il diags Radio N 6:1672-3 Mr '25
Universal two-step R.F. receiving set. P. G. Watson. il diag Radio N 6:491 O '24
Well designed short-wave receiver. J. Wood, jr. il diags Radio N 5:892-3+ Ja '24
What instruments should I buy? A. P. Peck. il Radio N 7:191-3 Ag '25
What selectivity accomplishes. A. N. Goldsmith. il diag Wireless Age 11:58-9 Ag '24
What to expect from your radio receiving sets. P. G. Watson. Radio N 6:189+ Ag '24
Which radio set to buy. Sci Am 132:41-4, 101-4, 182-5; 133:252-5 Ja-Mr, O '25
Wireless age push-button receiver. J: R. Meagher. il diags Wireless Age 11:48-50 Ja '24
Wireless age reflex; loudspeaker volume with one tube. J: R. Meagher. il plans Wireless Age 11:57-9+ F '24
Wireless age 3-tube set. J: R. Meagher. il diags Wireless Age 11:52-4 Mr '24
Wireless age uni-control receiver. J: R. Meagher. il diags Wireless Age 11:44-7+ D '23
Wireless receivers with crystal detectors. T: Carter. Elec R (Lond) 96:249-50 F 13 '25
See also Radio circuits; Radio loud speakers

A battery eliminator
New vacuum tube works on alternating current. Sci Am 133:64+ Jl '25

B battery eliminator
Electric light socket and our vacuum tubes. il Sci Am 132:240 Ap '25
Further notes on "B" battery eliminator from standard parts. D. E. Learned. il diags Radio N 7:57+ Jl '25
Lighting main plate supply. W: C. Poole. il diags Radio N 6:1896+ Ap '25
Working vacuum tubes without B batteries—solodyne principle. J: Scott-Taggart. il Radio N 6:158-9+ Ag '24

Dials
Straight-line frequency dials. S. Harris. il diags Radio N 7:618-19+ N '25

Headphones
Four-pole headphones. il Sci Am 130:113 F '24
How and why I designed the 5½oz. head set without headband. D. Bensel. il diag Wireless Age 12:42+ N '24
New miniature radio phones are worn in ear. C. A. Oldroyd. il Radio N 6:2090 My '25
Use of headphones and loud speakers. L: Frank. diags Radio N 5:1085+ F '24
Visit to the B.T.H. co.'s Coventry works; the manufacture of radio headphones. il diag Elec R (Lond) 95:872-3 D 5 '24; Engineering 118:747 N 28 '24; Electrician 93:618 N 28 '24

Installation
Application of the central radio receiving system to hospitals. C: M. Kelly, jr. il diag plan Am Arch 127:91-5 Ja 28 '25
Central radio receiving systems for apartment houses, hotels and hospitals. C: M. Kelly, jr. il Am Arch 126:65-8 Jl 16 '24
Does your radio set jeopardize your insurance? an interview with R. B. Shepard. B. B. Bostick. il Radio N 7:160A-B Ag '25
Installing a radio set. A. P. Peck. il diags Radio N 6:1156-7+ Ja '25
New York apartments get radio from wall plug. il Dun's Int R 46:55-6 S '25
Radio apartments. E. Ives. il Wireless Age 12:47+ F '25
Radio as a built-in feature. il diags Bldg Age 46:104-5 Ap '24
Radio installation in apartments. diags Bldg Age 46:176 N '24
Radio installations in apartments and homes. R. J. Stull. il diag J Elec 52:126-7 F 15 '24
Radio wiring for buildings. J: E. Dutcher. diag Am Arch 125:121-2 Ja 30 '24
Suggestions to the amateur on radio installations. J. M. Evans. J Elec 52:367 My 15 '24
Whittemore builds a radio home. S. R. Winters. diag Wireless Age 11:39 My '24

Power requirements
Radio increases use of energy 40 per cent. Elec W 84:1315 D 20 '24
What radio means to the central station. D: Sarnoff. Elec W 84:1094-5 N 22 '24

Repair
Killing receiver noises. R. A. Bradley. il Wireless Age 11:50-1 My '24
Locating and eliminating external and internal receiver noises. K. M. MacIlvain. plan Wireless Age 12:44+ Je '25
Overhauling your radio set. A. P. Peck. il Radio N 6:2086-8 My '25
To reanimate a dead receiver. R. A. Bradley. Wireless Age 11:62-3 Jl '24
Trouble corner; out of the way faults which occur in receiving sets. diags Radio N 6: 38-9+ Jl '24
Trouble shooting. R. Alan. il Wireless Age 12:46-7+ Ja '25
What to do until the doctor comes. R. L. Duncan. Wireless Age 11:49-50 D '23

Testing
Some methods of testing radio receiving sets. J. L. Preston and L. C. F. Horle. il diag U S Bur Stand Tech Pa 256:203-28 '24
Testing the instruments of your receiver. J: R. Meagher. il Radio N 6:1887+ Ap '25

Tuning
All about verniers. S. Harris. il diags Radio N 7:54-6+ Jl '25
Art of tuning the radio receiving set. il Sci Am 131:117 Ag '24
Chasing squeals; how to get better results from your receiver. R. A. Bradley. il Wireless Age 11:58-9+ Je '24
Coupling—tight or loose? S. Harris. diags Radio N 7:800-1+ D '25
Curves as an aid to tuning. H. C. Deffenbaugh. chart Radio N 5:905 Ja '24
Experiments with the 3-circuit tuner. H. C. Silbersdorff. il diags Wireless Age 12:20-1+ Ap '25
How to tune out local stations. C. W. Horn. Wireless Age 11:61+ Mr '24
Low loss, short wave tuner. R. A. Bradley. il Wireless Age 11:56-7 Jl '24
Reinartz all wave tuner. J: L. Reinartz. diags Radio N 5:1758+ Je '24
Right and wrong of receiver tuning. L. O. Marsteller. il Wireless Age 11:42-3 Je '24
Selector—a tuner for the city. A. A. Kubiac. il diags Radio N 6:2252-3 Je '25
Single control. S. E. Finkelstein. diags Radio N 7:46-7 Jl '25
60 to 600-meter tuner. R. Alan. il diags Wireless Age 12:46-7 O '24
Tuning and what it means. J: V. L. Hogan. diags Radio N 5:1232-3+ Mr '24
Tuning your radio set. A. P. Peck. il Radio N 6:1888-90+ Ap '25
Un-crowding the air. W: A. Bruno. il Radio N 6:2222-4 Je '25
Unicontrol for regenerative sets. S. Stern. il Radio N 6:2250-1 Je '25

RADIO receiving apparatus, Portable
Approved portable receiver. S. R. Winters. il diags Wireless Age 11:38-9+ Jl '24
Enjoy your radio far from the madding crowd. O. E. Dunlap, jr. il map Sci Am 133:18-19 Jl '25
Radio for boatman, motorist or hiker; practical vacation pointers. W. F. Crosby. il Wireless Age 11:24-6+ Je '24
Radio receiver in camp. W. P. Powers. diags Radio N 5:1741-2 Je '24
Radio set for the summer. M. B. Sleeper. il diags Wireless Age 11:54-6 Je '24
Really portable set. il diags Radio N 7:175-7 Ag '25
Wireless age portable reflex. R. Alan. il diag Wireless Age 11:48-9+ Jl '24

RADIO signals
Astronomy makes its bow to radio in the study of Mars. D: M. Todd. il Wireless Age 12:30-1+ N '24
Concerning the nature of fading. J. H. Dellinger. il Radio N 7:270+ S '25
Effect of fog upon radio signals. A. A. Kubiac. Radio N 6:187+ Ag '24
Facts and fancies in long distance transmission. G. W. O. Howe. Electrician 94:298 Mr 13 '25
Fading of radio signals. G. W. O. Howe. Electrician 91:658 D 14 '23
4,500,000 miles, some record! radio signals make automatic return. Wireless Age 11:35 Ja '24
Nature, cause and reduction of fading. G. W. Pickard. il charts Radio N 7:772-3+ D '25
New fields for radio signalling. E. F. W. Alexanderson. diags Gen Elec R 28:266-70 Ap '25
Optimum damping in the auditive reception of wireless telegraph signals. L. B. Turner and F. P. Best. diags Inst E E J 63:493-9; Discussion. 499-501 My '25
Radio-acoustic range finding. il Sci Am 133: 124 Ag '25
Radio telephone signaling; low-frequency system. C: S. Demarest, M. L. Almquist and L: M. Clement. il diags Am Inst E E J 43:210-18 Mr '24
Report on measurements made on signal strength at great distances during 1922 and 1923 by an expedition sent to Australia. H. J. Round and others. charts diags maps Inst E E J 63:933-1001 O '25; Abstract. Electrician 94:538-9 My 8 '25; Discussion. Inst E E J 63:1001-11 O '25
Sandhamn (Finland) radio station transmits ice reports. Radio Serv Bul 91:17-19 N '24
Spectroradiometric analysis of radio signals. C. Snow. U S Bur Stand Sci Pa 477:231-61 '23; Abstract. J Fr Inst 197:117-18 Ja '24
Study of radio signal fading. J. H. Dellinger. L. E. Whittemore and S. Kruse. chart diags U S Bur Stand Sci Pa 476:193-230 '23; Abstract. Elec R (Lond) 93:958-9 D 21 '23
Taking the ear-phones off the waiting radio man. il Sci Am 131:179 S '24
What causes fading? A. N. Goldsmith. il Wireless Age 11:36-7 Mr '24

See also Direction finding apparatus: Loth guide cable; Radio beacons; Radio fog signals; Time signals, Radio

Distress calls

Broadcasting—a danger. Y. Marrec. Electrician 92:5 Ja 4 '24
SOS—its real import. H. S. Pyle. Radio N 6:1708+ Mr '25

RADIO signals, Underground. See Radio communication, Underground

RADIO standards
Announcement of standard frequency transmissions. il Radio N 5:1073 F '24
Extension of standard radio frequency transmissions. Radio Serv Bul 90:10 O '24
Piezoelectric crystals as radio standards. Radio Serv Bul 90:8-9 O '24
Primary radio-frequency standardization by use of the cathode-ray oscillograph. G. Hazen and F. Kenyon. il diags U S Bur Stand Sci Pa 489:445-61 '24
Standard frequency stations. See monthly numbers of Radio service bulletin
Standard radio frequency transmissions, April to July. Radio Serv Bul 96:15 Ap '25 [continued quarterly]
Standardizing the ultra radio frequencies. F. W. Dunmore and F. H. Engel. il diags Radio N 5:1392-3+ Ap '24
Theory of determination of ultra-radio frequencies by standing waves on wires. A. Hund. il diags U S Bur Stand Sci Pa 491: 487-540 '24

See also Radio stations, Standard frequency

RADIO stations
Le réglage des tensions mécaniques des câbles; application au réglage des tensions de pose des haubans de pylônes de T. S. F. P. Bouvier and M. Bourseire. Génie Civil 85: 497-500 N 29 '24
Standard frequency stations. Published in monthly numbers of Radio service bulletin

See also Radio broadcasting stations; Radio compass stations; Radio receiving apparatus; Radio towers; Radio transmitters

Control

Remote control of a high power radio station. C: Speaker. il diag Radio N 5:1078+ F '24

Directories

Commercial and government radio stations of the United States. 109p U.S. Dept. of commerce, Bur. of navigation, Washington '25
New stations. See monthly numbers of Radio service bulletin

Power

Increased radio power. Radio Serv Bul 92:11-12 D '24

Argentina

Monte Grande high-power wireless station LPZ. Elec R (Lond) 95:494 O 3 '24
Transradio; Argentina to the fore. C. H. Nance. il Wireless Age 11:28-9+ Jl '24

England

Leafield wireless station. il Engineer 138:155, 160 Ag 8 '24
Northolt radio station. A. C. Warren. diags Inst E E J 62:967-9 N '24
Ongar and Brentwood wireless stations. il diags Engineer 139:596-8 My 29 '25
Radio developments; completing the Leafield high-power station. E. H. Shaughnessy. Inst E E J 62:51-7 D '23; Abstract. Elec R (Lond) 93:807-8 N 30 '23
Rugby wireless station. il diags plans Engineer 138:262-4 S 5 '24
Rugby wireless station. il (supp) Engineer 140:82 Jl 24 '25; Elec R (Lond) 97:59-61 Jl 10 '25; Electrician 95:672-5+ D 11 '25
La station de T.S.F. de Rugby (Angleterre). il diags Génie Civil 85:465-7 N 22 '24

See also Radio broadcasting stations—England

France

Paris radio centre. diag map Electrician 91: 512-13 N 9 '23

Germany

Die funktelegraphie in der reichstelegraphenverwaltung. Harbich. il diags Elektrotech Zeit 45:519-23 My 22 '24
Die hauptfunkempfangsstelle Zehlendorf. F. Eppen. il diags Elektrotech Zeit 45:615-19 Je 12 '24
High power radio station without antenna masts. A. Gradenwitz. il Radio N 5:897+ Ja '24
Königswusterhausen. A. Neuburger. il Wireless Age 11:43+ My '24

Greenland

Greenland radio stations. O. Lund-Johansen. map Wireless Age 12:52 My '25

United States

Commercial and government radio stations of the United States. 109p U.S. Dept. of commerce, Bur. of navigation, Washington '25
New army control station at Fort Leavenworth. R. B. Woolverton. il Radio N 5:1734-6 Je '24

RADIO stations, Airport
Radio communication with aircraft; the Marconi station at Basle, Switzerland. il Elec R (Lond) 96:1036 Je 26 '25

RADIO stations, Amateur
Amateur radio stations of the United States, June 30, 1924. 297p U.S. Dept. of commerce, Bur. of navigation, Washington '25
Amateur stations of the United States; supplementary list. Wireless Age 12:96 F; 77-8 My '25
Amateurs link New Zealand and Argentina. il map Radio N 6:310-11+ S '24
Changes in Tennessee amateur stations. Radio Serv Bul 98:16 Je '25
Complete list of British amateur stations. Radio N 5:1529-33, 1699+, 1757+ Ap-Je '24
De Luxe amateur station; 2COW, New Paltz, N.Y. il Radio N 6:920+ D '24
Pierre Louis' station, F8BF. il diags Radio N 5:1592 My '24
Radio in New Zealand. il Radio N 6:678-9 N '24
Station 2XNA of the College of the city of New York. S. Fishberg. il Radio N 6:922+ D '24
Transmitting station of the Radio society of Great Britain. P. R. Coursey. il diags Radio N 6:44-6 Jl '24
2BRB, one of the second district's best. il diag Radio N 6:2258+ Je '25

RADIO stations, Compass. See Radio compass stations

RADIO stations, Experimental
KDKA's powerful short wave station. il Radio N 6:292-3+ S '24

RADIO stations, Naval
Details of time, weather, press, and hydrographic bulletin schedules transmitted by naval radio stations. Radio Serv Bul 91:14-16 N '24; 93:9-10 Ja '25
Navy world wide radio net. G. K. Spencer. il Radio N 6:1626-8+ Mr '25
Navy's radio net. J. Farrell. il Wireless Age 11:32-3+ Ja '24

RADIO stations, Portable
Military wireless equipment. il Electrician 94:536-7 My 8 '25

RADIO stations, Ship
Commercial and government ship radio stations, alphabetically by names of vessels. In Commercial and government radio stations of the United States. p. 11-40; 74-81 U.S. Dept. of commerce, Bur. of navigation, Washington '25; Additions and revisions published in monthly numbers of Radio service bulletin
Description of radio apparatus on the Leviathan. Radio Serv Bul 89:8 S '24

See also Radio stations, Naval; Radio telegraph on ships

RADIO stations, Standard frequency
Standard frequency stations. Published in monthly numbers of Radio service bulletin

RADIO telegraph
Amateurs shake hands across Atlantic. il Wireless Age 11:50-1+ Mr '24
Another historic event in amateur radio; M. Léon Deloy establishes bi-lateral communication between Europe and the United States. L. S. Lees. il Radio N 5:1236+ Mr '24
Beam system. K. M. MacIlvain. diags Wireless Age 12:44-7 D '24
Electromagnetic screening in wireless telegraphy. G. W. O. Howe. diags Electrician 93:34+ Jl 11 '24
Fans of yesterday. il Radio N 5:1228-9+ Mr '24
How Iwaki told the world. S: Reber. il Wireless Age 11:17-18+ D '23
Old record of Marconi's first radio success. W. S. Fitzpatrick. il Wireless Age 12:52-3 O '24
Problems of directive transmission in radiotelegraphy. G. W. O. Howe. diags Electrician 93:662-3 D 12 '24
Les progrès de la radiotélégraphie; les procédés modernes d'émission automatique et de réception enregistrée. G. Malgorn. il diags Génie Civil 84:269-74, 303-7 Mr 22-29 '24
Radio-telegraphic communication; Senator G. Marconi's forecasts. Elec R (Lond) 95:932-3 D 19 '24
Radio uni-set; excellent combination of receiver and transmitter which can be employed for either C.W. or phone. H. M. Towne. il diag Radio N 6:1676-7+ Mr '25
Recent radio-telegraphic research; the National physical laboratory's work. diag Elec R (Lond) 96:919-20 Je 5 '25
Report of the Imperial wireless telegraphy committee. Electrician 92:308, 321+ Mr 7-14 '24
Results obtained over very long distances by short wave directional wireless telegraphy; abstracts. G. Marconi. il diags Engineer 138:21, 245-7 Jl 4, Ag 29 '24; Elec R (Lond) 95:155-7 Jl 25 '24; Electrician 93: 43-4 Jl 11 '24
Scientific applications of radiotelegraphy. G. Ferrié. J Fr Inst 196:763-70 D '23
Some radio-telegraph developments. E. H. Shaughnessy. Elec R (Lond) 96:78-80 Ja 9 '25
World-wide radio telegraphy. G. W. O. Howe. Inst E E J 63:517-18 My '25

See also Amplifiers; Ciphering machines; Electric waves; Radio apparatus; Radio communication; Radio measurement; Radio stations; Radio transmitters; Telegraph, Carrier current; Vacuum tubes

Business applications

How radio is serving Henry Ford. H. S. Pyle. il Wireless Age 12:28-9+ Ap '25

Tables, calculations, etc.

Application of the periodogram to wireless telegraphy. C. R. Burch and J. Bloemsma. Philos Mag 6th ser 49:480-503 F '25
Effect of the earth in the transmission of electromagnetic waves in radio-telegraphy. G. W. O. Howe. Electrician 93:148-9 Ag 8 '24
Measurement of frequency and allied quantities in wireless telegraphy. K. E. Edgeworth and G. W. N. Cobbold. Inst E E J 63:919-20; Discussion. 920-2 S '25
Relations between damping and speed in wireless reception. L. B. Turner. Inst E E J 62:192-201; Discussion. 202-7 F '24
Wireless telegraph theory; graphical treatment of certain important differential equations. A. A. Robb. diags Electrician 92:158-9 F 8 '24

Great Britain

Imperial wireless telegraphy. Elec R (Lond) 94:393-4 Mr 7 '24

India

Baudot system and radio; some details of an important Indian circuit. Electrician 93:207 Ag 22 '24

Italy

Die drahtlose telegraphie in Italien. Rautenkrantz. Elektrotech Zeit 45:1280-1 N 20 '24

RADIO telegraph in aviation
Directional wireless telegraphy in aircraft. C. K. Chandler. diags Inst E E J 61:803-11 Jl '23; Discussion. 62:129-31 Ja '24
Radio and the giant of the air. W: A. Hurd. il Wireless Age 11:17-21 Mr '24
Wireless on aircraft. il Electrician 95:498-9 O 30 '25

See also Direction finding apparatus

RADIO telegraph in mining. See Radio communication, Underground

RADIO telegraph in war
Wireless in the army. il diag Electrician 92: 43-4 Ja 11 '24; Discussion. 92:107, 167 Ja 25, F 8 '24

RADIO telegraph on railroads
Pennsylvania railroad conducts systematic tests to develop the possibilities of radio. Ry R 74:1067 Je 7 '24
Railway telegraph convention considers radio dispatching. Ry R 77:680 O 31 '25
Wireless telegraphy on trains. Engineer 137: 262-3 Mr 7 '24

RADIO telegraph on ships
Marine wireless development; installation on Aorangi. il Electrician 94:300-1 Mr 13 '25

RADIO telegraph on ships—*Continued*
Radio breaks Arctic silence. J. Barnsley. il Wireless Age 11:26-8+ Mr '24
Ship's lifeboat radio set. il diags Elec R (Lond) 95:792-3 N 21 '24
Ship's motor lifeboat with wireless equipment. il diags plan Engineer 139:160 F 6 '25
Wireless for lifeboats. il Electrician 94:301 Mr 31 '25
Wireless on board ship. J: A. Slee. il Electrician 93:90-2 Jl 25 '24
See also Radio stations, Ship

RADIO telephone
Advanced radio. 20p Radio institute of America, New York city, San Francisco, Calif. '23
L'alimentation des postes récepteurs de radiophonie par le courant alternatif des secteurs électriques. diags Génie Civil 84:68-9 Ja 19 '24
Atlantic radio telephone transmission. L. Espenschied, C. N. Anderson and A. Bailey. Electrician 95:175-7 Ag 14 '25
Chemical aspects of radio. C. Marx. Chem Age 32:237-9, 353-5, 383-5, 449-52 My, Ag-S, N '24
Copenhagen-Bornholm wireless telephone service. il Sci Am 129:393 D '23
Crack 40-80 meter set. E. W. Thatcher. il diags Radio N 7:605+ N '25
Drahtlose telephonie und rundfunk. F. Trautwein. diags Elektrotech Zeit 45:390-4 Ap 24 '24
DX reception in the Grand Canyon. M. Abel. il Wireless Age 11:17-18+ Ja '24
Electrons, electric waves and wireless telephony. J: A. Fleming. 326p Wireless press, London, New York '23
Engineering trans-Atlantic radio telephony. il chart diags Radio N 5:1052-4+ F '24
European over sea duplex radio telephony. A. Neuburger. il Wireless Age 11:56-7 Ag '24
Faithful reproduction in radio-telephony. L. C. Pocock. diags Inst E E J 62:791-807 [bibliog. p. 805-7] S '24; Abstracts. Elec R (Lond) 94:767-8 My 9 '24; Engineering 117:612-13 My 9 '24; Electrician 93:411-12 O 10 '24; Discussion. Inst E E J 62:807-15 S '24
First European radio-telephone service. A. Gradenwitz. il Radio N 5:1048 F '24
Henley's 222 radio circuit designs. J: E. Anderson and others. 271p Henley '23
Home radio, how to make and use it. A. H. Verrill. Rev. ed. 148p Harper '24
La modulation en téléphonie sans fil. diags Génie Civil 86:313-14 Mr 28 '25
More than 550,000 farms in United States equipped with radio. Comm & Fin Chr 121: 1295 S 12 '25
Non-carrier radio telephone transmission. H. A. Brown and C: A. Keener. il diags Ill U Eng Exp Sta Bul 145:1-24 '24
Les nouvelles lampes de radiophonie à l'Exposition de physique. Génie Civil 84:92-3 Ja 26 '24
Practical radio. H: S. Williams. 4th ed., rev. 439p Funk & Wagnalls co., New York and London '24
Radio and the blind. W. H. McDonald. il Radio N 7:146+ Ag '25
Radio developments; completing the Leafield high-power station. E. H. Shaughnessy. Inst E E J 62:51-7 D '23; Abstract. Elec R (Lond) 93:807-8 N 30 '24
Radio frequency amplification, theory and practice. K. Harkness. 176p Radio guild, inc., New York '23
Radio in the Vienna fire department. O. C. Zilisch. il Radio N 6:1390+ F '25
Radio manual. O. E. Dunlap, jr. 267p Houghton '24
Radio news amateurs' handibook. Experimenter pub. co., 236 Fulton St., New York '23
Radio reception in the Grand Canyon. S. R. Winters. il Radio N 5:1074-5+ F '24
Radio telephone modulation. H. A. Brown and C: A. Keener. il diags Ill U Eng Exp Sta Bul 148:1-47 '25
Radio telephone signaling; low-frequency system. C: S. Demarest, M. L. Almquist and L: M. Clement. il diags Am Inst E E J 43: 210-18 Mr '24
Radio theory simplified, with a radio dictionary. M. Duston. 220p Whitman pub. co., Racine, Wis. '24
Radio uni-set; excellent combination of receiver and transmitter which can be employed for either C.W. or phone. H. M. Towne. il diag Radio N 6:1676-7+ Mr '25
Review of development in radio telephony. A. F. Van Dyck. il Wireless Age 12:34-5+ Je '25
Ring up your friend by radio. H. Diamond. il diags Radio N 6:42-3+ Jl '24
Selected radio-telephone apparatus; recent developments and improvements. il Elec R (Lond) 95:928-9; 96:10-11, 353-4, 437, 513-14, 598-9, 678, 794-5, 995-6; 97:37, 277, 595-6 D 19 '24, Ja 2, F 27, Mr 13, 27, Ap 10, 24, My 15, Je 19, Jl 3, Ag 14, O 9 '25
Simple modulation methods. L. W. Hatry. diags Radio N 6:696-7 N '24
Some suggestions for radio beginners. B. Steinmetz. il Radio N 5:872+ Ja '24
Trans-Atlantic radio telephony. G. C. B. Rowe. il diags Radio N 7:790-1+ D '25
Trans-Atlantic radio telephony development. il Wireless Age 11:46 Jl '24
Les transmissions transatlantiques par radiotéléphonie sur ondes courtes. Génie Civil 85:529-30 D 6 '24
Value of radio to the deaf. W. Pond. il Radio N 6:304+ S '24
Wireless telephones and how they work. J. Erskine-Murray. 3d ed., rev. & enl. 84p Van Nostrand '23
See also Amplifiers; Radio apparatus; Radio broadcasting; Radio communication; Radio receiving apparatus; Radio stations; Telephone, Carrier current; Vacuum tubes

Laws and regulations
See Radio laws and regulations

Loud speakers
See Radio loud speakers

Patents
Patentschutz in der drahtlosen telephonie. H. Herzfeld. Elektrotech Zeit 45:530 My 22 '24

Police uses
Invisible police alarm. O. E. Dunlap, jr. il Sci Am 133:308-9 N '25
Radio police car. A. Perry. il Radio N 5:870+ Ja '24
Wireless for police work; an interesting equipment for traffic control in the Metropolitan area. il Electrician 92:318-19 Mr 14 '24

RADIO telephone in aviation
Air mail planes to have radio telephone. il Aviation 15:704-5 D 10 '23
Air mail radio equipment. I. F. Byrnes. il diags Gen Elec R 27:492-7 Ag '24
First conversation from airplane to ground broadcasted. il Aviation 17:961-2 S 8 '24
How the ZR-3 was piloted by radio. H. C. Flemming. il Radio N 6:1134-5+ Ja '25
Radio story of the world flight. L. H. Baker. il Wireless Age 12:33-5+ O '24
Shenandoah's radio installation. S. R. Winters. il Radio N 5:1390-1+ Ap '24
Über die beseitigung der störenden wirkung des elektrischen zündsystems der explosionsmotoren auf den radioempfang bei flugzeugen. V. S. Kulebakin. diags Elektrotech Zeit 46:1061-7 Jl 16 '25
Wireless and aeronautics; details of the Marconi ground stations. il Electrician 94:178-9 F 13 '25
Wireless on aircraft. il Electrician 95:498-9 O 30 '25

RADIO telephone in hospitals
Application of the central radio receiving system to hospitals. C: M. Kelly, jr. il diag plan Am Arch 127:91-5 Ja 28 '25
Radio benefits camp veterans. C. G: Lake. il Radio N 5:1226+ Mr '24
Radio for veterans in hospitals. C: W. Swan. il Wireless Age 11:53 Jl '24
Radio in hospitals. Radio Serv Bul 90:9-10 O '24; Same. Am Inst E E J 43:1030 N '24

RADIO telephone in hotels
Hotel furnishes radio for its guests. C. B. Hyatt. il Radio N 6:2068+ My '25
Radio hotel. il Radio N 5:1241 Mr '24

RADIO telephone in mines
Broadcasted program received in depths of mine. E. Gealy. il Coal Age 25:358 Mr 6 '24
Radio to the rescue. J. Farrell. il Radio N 6:14-15+ Jl '24
School boys work out new radio system for mines. A. B. McCall. il diags Coal Age 26: 293-6 Ag 28 '24

RADIO telephone in prisons
World within a prison cell. Wireless Age 11: 40-1 Ap '24

RADIO telephone on railroads
Broadcast reception on moving trains in England and America. il Wireless Age 11:44 My '24
Communication in railroad operation. I. C. Forshee. Am Inst E E J 44:451-7 My '25; Discussion. 44:777-8 Jl '25
Listening in across Canada. R. D. Meyer. il Radio N 7:144-5 Ag '25
Radio on the Canadian National. il Ry Age 78:428-9 F 14 '25
Radio telephony on railway trains; the G.W.R experiments. E. J. Collier. Elec R (Lond) 94:612-13 Ap 18 '24

RADIO telephone on ships
Big motor ship for Henry Ford-IV. G: E. Cole. il Marine R 54:342-3 Ag '24
Cruise of the Ara. W: A. Hurd. il Wireless Age 11:20-3 Je '24
Modern marine wireless equipment. R: Twelvetrees. il Electrician 95:35-6 Jl 10 '25
Radiophone enables ship-to-ship conversations at sea. il J Elec 54:112 F 1 '25
Telephone conversation by radio; talking to ships at sea. W. S. Thompson, jr. il diags Wireless Age 11:30-1 Je '24
Wireless communication with lightships. F. Tandy. il diags Engineer 137:118-19 F 1 '24
Yacht Ara's complete radio outfit. S. F. Nielsen. il diags Wireless Age 11:50-3 S '24

RADIO time signals. See Time signals, Radio

RADIO towers
Large uses of steel in small ways. il Iron Tr R 76:292-3 Ja 22 '25

RADIO transformers
Current-transformer methods of producing small, known voltages and currents at radio frequencies for calibrating purposes. D. W. Dye. diags Inst E E J 63:597-603; Discussion. 603-8 Je '25
Emergency transformer. E: W. Berry. diag Radio N 6:315+ S '24
Intervalve transformers; the amplification of audio-frequency vibrations. C. H. Naylor. diags Elec R (Lond) 96:589-91, 631-3 Ap 10-17 '25
Low-frequency inter-valve transformers. J. Stevens. Elec R (Lond) 97:4-5 Jl 3 '25
Matching intermediate wave transformers for super-heterodynes. G. I. Mitchell. diags Radio N 6:51+ Jl '24
Notes on the super-heterodyne. G. I. Mitchell. diags Radio N 6:492-3+ O '24
Operation of close coupled transformers. W. P. Powers. diags Radio N 5:1246+ Mr '24
Quick shift oscillation transformer. P. N. Maynard. il diags Radio N 5:1084+ F '24
R.I. transformer. diags Electrician 93:232 Ag 29 '24
Radio transformer characteristics. Elec R (Lond) 95:653-4 O 31 '24
Thermo-electric transformer to make possible operation of radio receivers from electric light current. il Wireless Age 11:64 Jl '24
Transient phenomena in audio frequency transformers. A. D. Cardwell. il Radio N 5:1079+ F '24
Use of iron in transformers. O. Lodge. diags Radio N 6:325+ S '24

RADIO transmitters
All about filters. E: W. Berry. diags Radio N 7:452-3+ O '25
Arc radio transmitters for marine service. Marine Eng 30:530 S '25
Automatic sending key and time relay for tube transmitters. A. A. Kubiac. diags Radio N 6:490+ O '24
Baby transmitter. W. B. Schulte. il diags Radio N 7:803+ D '25
Better radio transmission by zero carrier waves. G. H. Dacy. il diag Radio N 6:1160 Ja '25
Binaural broadcasting. F. M. Doolittle. il Elec W 85:867-70 Ap 25 '25
C. W. and radiophone transmitters. L. R. Felder. diags Radio N 5:895+, 1086+, 1247+, 1762-3 Ja-Mr, Je '24
Discovering unexplored ultra frequencies. J: L. Reinartz. il Radio N 6:2220-1 Je '25
Experimenting with five meters. W: A. Bruno. il diags Radio N 6:1158-9+, 1422-3+ Ja-F '25
Five-meter transmitter. W. B. Arvin. il diag Radio N 6:2074-5 My '25
Five-meter transmission. R. E. Kolo. il diags Radio N 7:807+ D '25
40-meter transmitter with a punch. W: H. Schick. diags Radio N 7:68+ Jl '25
Getting the most out of the small transmitter. B. Foote. diags Radio N 5:1421+ Ap '24
Good rectifier and filter for the C. W. set. W: H. Schick. il diags Radio N 5:1593-4 My '24
Hochfrequenzmaschinensender und seine drehzahlregelung. W. Dornig. il diags Elektrotech Zeit 46:415-18 Mr 19 '25
Ideal amateur transmitter. H. S. Pyle. il diag Radio N 6:312+ S '24
Local V.T. transmitter. H. S. Pyle. il diag Radio N 6:48+ Jl '24
Loop antenna transmission. M. W. Olson. diags Radio N 6:681+ N '24
New Arlington tube transmitter. C: Speaker. il Radio N 5:871+ Ja '24
New high power navy transmitter. Radio N 6:1774+ Mr '25
New radio developments in Germany. S. McClatchie. il diag Radio N 7:783+ D '25
100 watt master oscillator transmitter. J: E. Fetzer. il diag Radio N 6:682-3 N '24
Principles of C. W. and radiophone transmission and reception. L. R. Felder. il diag Radio N 6:191+ Ag '24
Radio telegraph transmitter. il Marine Eng 30:639-40 N '25
Real DX transmitter. R. N. Jones. il diag Radio N 6:190 Ag '24
Re-broadcasting the broadcast program. W. J. Purcell. il Sci Am 131:164 S '24
Recent advances in wireless propagation both in theory and in practice. A. S. Eve. J Fr Inst 200:327-33 S '25
Shenandoah short wave transmitter. S. R. Winters. il Radio N 6:1170+ Ja '25
Simple C. W. sets for the novice. L. W. Hatry. diags Radio N 5:1761+ Je '24
Suggestions that improved one 5-watter. K. Royale. diags Radio N 6:1169+ Ja '25
This panel business. H. S. Pyle. il Radio N 5:1420-1 Ap '24
Three-wave transmitter. J: M. Baldwin. diags Radio N 6:489 O '24
Transmitter at KFGD. J: M. Baldwin. diag Radio N 5:1759+ Je '24
Tube transmitter design. J: R. Meagher. il diag Wireless Age 12:50-1+ Mr '25
Tuning fork generator. A. G. Lee. il diag Electrician 94:510-11 My 1 '25
Twenty-kilowatt vacuum tube radio telegraph transmitter. P. R. Fortin and C. A. Priest. il diags map Gen Elec R 27:61-73 Ja '24
200 kW triode transmitter. B. van der Pol and K. Posthumus. il diags Electrician 95: 202-4+ Ag 21 '25
When your motor generator fails at sea. O: E. Curtis. il Wireless Age 11:54 My '24
Wireless telegraph valve transmitters employing rectified alternating current. G. Shearing. diags Inst E E J 63:309-27 Mr '25; Abstracts. Engineer 138:649 D 5 '24: Electrician 93:664 D 12 '24; Discussion. Inst E E J 63: 327-33 Mr '25
Wireless valve transmitters. W. James. 271p Iliffe & sons, ltd., London '25
Year's work below forty meters. J: L. Reinartz. il diags Radio N 6:1894-5+ Ap '25

RADIO transmitters, Portable
Portable short wave transmitter. C. J. Burnside. il Wireless Age 12:26-7+ Je '25

RADIO typewriter
The Compare radio typewriter. O: Pohle. il diags Radio N 6:2254-5+ Je '25

RADIO waves
Applying the yardstick to radio waves. il Sci Am 131:34 Jl '24
Die ausbreitung der elektromagnetischen wellen in der grossstadt. maps Elektrotech Zeit 46:973-4 Je 25 '25
Beam system. K. M. MacIlvain. diags Wireless Age 12:44-7 D '24
Behavior of radio waves. E. F. W. Alexanderson. il diag Radio N 7:410-11+ O '25
Behavior of radio waves and the Heaviside layer. O. Lodge. il Radio N 6:898-9+ D '24
Better radio transmission by zero carrier waves. G. H. Dacy. il diag Radio N 6:1160 Ja '25
Broadcasting distribution; some problems when transmitting city districts. R. Bown and G. Gillett. maps Electrician 92:694-6+ Je 6 '24
Commerce department shifting wave-lengths. Radio N 6:1849+ Ap '25
Cooperative investigation of radio wave phenomena. Radio Serv Bul 96:14-15 Ap '25
Effect of the atmosphere on radio waves. J. M. Guinchant. diags Radio N 6:1854-5+ Ap '25
Effect of the earth in the transmission of electromagnetic waves in radio-telegraphy. G. W. O. Howe. Electrician 93:148-9 Ag 8 '24
Effect of wave damping in radio direction-finding. R. L. Smith-Rose. Inst E E J 63: 923-7; Discussion. 927-31 S '25
Facts and fancies in wireless transmission. G. W. O. Howe. diags Electrician 94:298, 422-3 Mr 13, Ap 10 '25
First survey of the ether; physical barriers obstruct many electromagnetic waves. E. H. Felix. il map Wireless Age 11:47+ My '24
Getting the right radio wave. J: V. L. Hogan. Radio N 5:1051+ F '24
How earth's rotation sets radio frequencies. P. B. Findley. il diags Radio N 6:1404-6+ F '25
Is radio earthbound? Prof. Goddard's proposed moon rocket which will contain a radio transmitter. D. C. Wilkerson. il Radio N 6:1629+ Mr '25
Method of producing a square wave of radio frequency. J. L. Bowman. il diags Phys R 24:31-7 Jl '24
Nature, cause and reduction of fading. G. W. Pickard. il charts Radio N 7:772-3+ D '25
Neue untersuchungen über die ausbreitung der elektromagnetischen wellen; abstract. Bäumler. Elektrotech Zeit 46:667-9 Ap 30 '25
New fields for radio signalling. E. F. W. Alexanderson. diags Gen Elec R 28:266-70 Ap '25
New theory of long distance radio-communication. G. W. O. Howe. Electrician 93:282-3, 402-3 S 12, O 10 '24
Ondes courtes et ondes très courtes en T.S.F. F. Collin. diags Génie Civil 87:189-92 Ag 29 '25
Production and use of ultra short wave-lengths. R. Mesny. il diags Radio N 5: 1566-7+, 1743+ My-Je '24
Radio communication. G. Marconi. diag map Engineer 138:706 D 19 '24; Abstract. Engineering 118:836-7 D 19 '24
Radio-propagation. G. W. de Tunzelman. Electrician 95:56-7 Jl 17 '25
Recent advances in wireless propagation both in theory and in practice. A. S. Eve. J Fr Inst 200:327-33 S '25
Results obtained over very long distances by short wave directional wireless telegraphy; abstracts. G. Marconi. il diags Engineer 138:21, 245-7 Jl 4, Ag 29 '24; Elec R (Lond) 95:155-7 Jl 25 '24; Electrician 93:43-4 Jl 11 '24
Scientific applications of radiotelegraphy. G. Ferrié. J Fr Inst 196:763-70 D '23
Study of wireless wave fronts by directional methods; abstracts. R. L. Smith-Rose. Engineer 140:287 S 18 '25; Elec R (Lond) 97: 431 S 11 '25; Electrician 95:265-6 S 4 '25; Engineering 120:377 S 25 '25
Sunset affects radio wave direction. Sci Am 132:423+ Je '25
Sunset fading tests. Radio Serv Bul 98:17 Je '25
Theories of radio wave propagation. L. L. Adelman. il Radio N 6:2238-40 Je '25
Theory of determination of ultra-radio frequencies by standing waves on wires. A. Hund. diags U S Bur Stand Sci Pa 491: 487-540 '24
Transmitting power by radio. J. Riley. il Radio N 7:766+ D '25
What causes fading? A. N. Goldsmith. il Wireless Age 11:36-7 Mr '24
What the layman should know about high frequency. J. E. Smith. Wireless Age 12: 27+ Jl '25
Why wireless electric rays can bend round the earth. J. Larmor. Philos Mag 6th ser 48: 1025-36 D '24; Abstract. Electrician 94:30-1 Ja 9 '25
Will short waves revolutionize broadcasting? W. W. Rodgers. il Wireless Age 11:39 Mr '24
Will your radio set be obsolete? use of short wavelengths. O. E. Dunlap, jr. il Sci Am 133:168-9 S '25
Wireless theories. J. E. Taylor. Electrician 94:652+ Je 5 '25; Discussion. R. A. West. 94:728 Je 19 '25
Wireless wave propagation. E. V. Appleton and M. A. F. Barnett. Electrician 94:398 Ap 3 '25

Measurement
See Radio measurement

RADIO wiring for buildings. See Radio receiving apparatus—Installation

RADIOACTIVE substances
L'industrie des corps radioactifs. C. Matignon and G. Marchal. il diag Chimie & Ind 14:343-57 S '25
Les minerais radioactifs de Madagascar. diag Génie Civil 84:140-1 F 9 '24
Radioactive minerals as geological age indicators. H. V. Ellsworth. Am J Sci 5th ser 9:127-44 F '25
Short-lived radioactive products of uranium. W: G: Guy and A. S. Russell. Chem Soc J 123:2618-31 O '23

See also Actinium; Mesothorium; Radium; Thorium; Uranium

RADIOACTIVITY
Alkali-vapor detector tubes. H. A. Brown and C: T. Knipp. Ill U Eng Exp Sta Bul 138: 1-40 '23
Early days in radio-activity. E. Rutherford. J Fr Inst 198:281-9 S '24
Electric charge carried by thorium X and thorium emanation recoil atoms in gases. G. H. Briggs. diags Philos Mag 6th ser 50:600-12 S '25
Electrical behaviour of radioactive colloidal particles of the order of 10^{-5} cm. as observed separately in a gas. F. Ehrenhart. Philos Mag 6th ser 49:633-48 Ap '25
Experimental determination of the rate of decay of the short-life product radium C'. J. C. Jacobsen. diag Philos Mag 6th ser 47: 23-31 Ja '24
Experiments on the artificial disintegration of atoms. G. Kirsch and H. Pettersson. diags Philos Mag 6th ser 47:500-12 Mr '24
Measurement of small radio-activities. G. Hoffmann. J Fr Inst 198:826 D '24
Origin and nature of the long-range particles observed with sources of radium. C. E. Rutherford and J. Chadwick. diags Philos Mag 6th ser 48:509-26 S '24
Radioactive disintegration series; hypothetical series. W. P. Widdowson and A. S. Russell. Philos Mag 6th ser 48:293-306 Ag '24
Radioactivity. A. F. Kovarik and L. W. McKeehan. Nat Research Council Bul v 10, pt 1:1-171 Mr '25

RADIOACTIVITY—*Continued*
Radioactivity and the latest developments in the study of the chemical elements. K. Fajans. 138p Dutton '22
Radioactivity and the surface history of the earth. J: Joly. 40p Oxford '24
Radioactivity of basalts and other rocks. J. H. J. Poole. Philos Mag 6th ser 48:819-32 N '24
Radioactivity of the rocks. J: Joly. il Chem Soc J 125:897-907 Ap '24
Relative activities of radioactive substances in an unchanged primary uranium mineral. W. P. Widdowson and A. S. Russell. Philos Mag 6th ser 46:915-29 N '23

See also Actinium; Alpha rays; Beta rays; Electrons; Helium; Ionization, Gaseous; Isotypes; Radiography; Radium; Thorium; X rays

RADIOFILM
Programs recorded on a steel band. O. E. Dunlap, jr. Sci Am 133:350+ N '25

RADIOGONIOMETER. See Radio compass

RADIOGRAPHY
L'analyse du charbon au moyen des rayons X. C. N. Kemp. il diags Chimie & Ind 12:233-49 Ag '24
Analysis of crystal structure by X-rays. W. H. Bragg. Engineering 118:428-30 S 19 '24
Determination of opaque ore-minerals by X-ray diffraction patterns. P. F. Kerr. diags Econ Geol 19:1-34, pl 1-2 Ja '24
Hunting ills with the X-rays. V. E. Hillman. il Foundry 52:213-16 Mr 15 '24; Same. Iron Tr R 74:1103-6 Ap 24 '24
Improvement of foundry practice with the aid of X-rays. Engineer 139:sup7-8 Ja 30 '25
New X-ray studies of the ultimate structures of commercial metals. G. L. Clark, E. W. Brugmann and S. D. Heath. il Ind & Eng Chem 17:1142-6 N '25
Probe aluminum castings with the X-ray. R. J. Anderson. il Foundry 53:606-8 Ag 1 '25; Same. Iron Tr R 77:374-6 Ag 13 '25
Recent advances in X-ray technique. M. A. Codd. il diags Elec R (Lond) 94:566-9 Ap 11 '24
Steel castings and X-rays. A. St John. il Iron Age 116:802-4 S 24 '25
Study of stress-strain problems by means of Röntgen rays. il diag Engineering 116:750-1, 762-3 D 14-21 '23
Technic of X-ray is improving; experience at Watertown arsenal in application of X-ray process to steel castings. il Iron Tr R 75:669-71 S 11 '24
Telephoning X-ray photographs. il Sci Am 133:56 Jl '25
Using X-rays to detect hidden dangers in plant equipment. H. H. Lester and others. il diag Chem & Met Eng 31:619-22 O 20 '24
X-ray examination of materials. G. L. Addenbrooke. il Inst E E J 61:1141-3 O '23
X-ray examination of metals at the Watertown arsenal, Watertown, Mass. T. C. Dickson. Mech Eng 46:773 pt 2 N '24; Same. Am Mach 61:911-12 D 11 '24
X-ray examination of steel castings. I. E. Moultrop and E. W. Norris. il diags Mech Eng 47:391-9 sec 2 My '25 Same. Engineering 120:120-2 Jl 24 '25; Same cond. Power 61:1023-6 Je 30 '25
X-ray studies of the copper-aluminium alloys; abstract with discussion. E. R. Jette, G. Phragmén and A. F. Westgren. Engineer 137:304 Mr 21 '24; Engineering 117:360-1 Mr 21 '24

See also Radioactivity

RADIOLOGY, International congress of. See International congress of radiology

RADIOMETERS
Improved radiometer construction. J. D. Tear. Phys R 23:641-8 My '24
Oxalic acid-uranyl sulfate ultraviolet radiometer. W: T. Anderson, jr. and F: W. Robinson. Am Chem Soc J 47:718-25 Mr '25

RADIOMETRY
Some measurements of the spectral components of planetary radiation and planetary temperatures. W. W. Coblentz and C. O. Lampland. diag J Fr Inst 199:785-841; 200:103-26 Je-Jl '25

RADIOMICROMETER
Radio micrometer. C. B. Bazzoni. il diags Radio N 6:2208-9+ Je '25

RADIOTHERAPY
Erfahrungen und erfolge in der anwendung elektromedizinischer apparate. H. Holthusen. il Elektrotech Zeit 45:903-8 Ag 21 '24

See also Phototherapy

RADIUM
Apparatus for purification of radium emanation. V: F. Hess. diag Philos Mag 6th ser 47:713-21 Ap '24
Chemical action produced by radon; revision of the chemical effect of recoil atoms. S. C. Lind and D. C. Bardwell. Am Chem Soc J 46:2003-9 S '24
Decay of radium E. L. Bastings. Philos Mag 6th ser 48:1075-80 D '24
Experimental determination of the rate of decay of the short-life product radium C'. J. C. Jacobsen. diag Philos Mag 6th ser 47:23-31 Ja '24
Experiments on the extraction and recovery of radium from typical American carnotite ores. H. H. Barker and H. Schlundt. (ser. 23) 87p Missouri univ. eng. exp. sta., Columbia '23
Heating effect of the γ-rays of radium B and radium C. C. D. Ellis, W. A. Wooster and J. M. Dodds. diags Philos Mag 6th ser 50: 521-36 S '25
Method for testing radium ores. H. H. Taft. Eng & Min J 119:567 Ap 4 '25
New discovery of radium. Sci Am 130:254 Ap '24
Number of alpha-particles emitted by radium. V: F. Hess and R. W. Lawson. Philos Mag 6th ser 48:200-7 Jl '24
Number of γ-rays emitted per second from radium B and C in equilibrium with a gram of radium and the number emitted per atom disintegrating. A. F. Kovarik. Phys R 23:559-74 My '24
Protective and manipulative methods in relation to X-rays and radium. Elec R (Lond) 97:111-12 Jl 17 '25
Radium-bearing silts of southeastern Utah. G: O. Williams. Eng & Min J 119:201-2 Ja 31 '25
Radium deposit near Chihuahua. M. Perogordo y Lasso. Eng & Min J 119:168 Ja 24 '25
Radium from a Cornish mine. M. Gregory. Engineer 139:572 My 22 '25
Radium industry; abstracts. C. E: S. Phillips. Engineer 139:265 Mr 6 '25; Chem Age (Lond) 12:228 Mr 7 '25
Radium, uranium, and vanadium in 1923. F. L. Hess. Eng & Min J 117:91 Ja 19 '24
Radium, uranium, and vanadium in 1924. F. L. Hess. Eng & Min J 119:93 Ja 17 '25
Relation between uranium and radium; the period of ionium and the ionium-thorium ratio in Colorado carnotite and Joachimsthal pitchblende. F: Soddy and A. F. R. Hitchins. Philos Mag 6th ser 47:1148-53 Je '24
Tuya-Muyun radium expedition in 1922. S. P. Alexandroff. il Eng & Min J 116:944-6 D 1 '23
Uses of radium. Sci Am 130:39 Ja '24
Le 25e anniversaire de la découverte du radium (1898-1923). A. Debierne. il Chimie & Ind 11:sup 13-19 Mr '24
Die wirkung von radium auf elektrische batterien. M. Hartenheim. il Elektrotech Zeit 45:41-3 Ja 17 '24

See also Carnotite; Radioactivity; Radiography

Analysis

Radium. S. C. Lind. diags U S Bur Mines Bul 212:173-97, pl 1; Bibliography. 197-8 '23

RADIUM—*Continued*

Physiological effect

Necrosis of the jaw in workers employed in applying a luminous paint containing radium. W: B. Castle and others. J Ind Hygiene 7:371-82 [bibliog. p. 381-2] Ag '25; Abstract. Monthly Labor R 21:1091-3 N '25

Preliminary note on observations made on physical condition of persons engaged in measuring radium preparations. R. C. Williams. 24p U.S. Pub. health service, Washington '24

Radium poisoning regarded as new occupational disease. Chem & Met Eng 32:654 Jl '25

Therapeutic use

Compendium of abstracts of papers on the therapeutic use of radium; with a glossary of terms in radioactivity and radiumtherapy. 2d ed. 257p Radium chemical co., Pittsburgh '25

RADIUM compounds

Effect of temperature on the luminosity of radium compounds. J. A. Rodman. Phys R 23:478-87 Ap '24

RADIUM sulfate

Co-precipitation of radium and barium sulfates. H. A. Doerner and W: M. Hoskins. Am Chem Soc J 47:662-75 Mr '25

RADON. See Radium

RAFFINOSE

Constitution of raffinose. W. N. Haworth, E. L. Hirst and D: A. Ruell. Chem Soc J 123:3125-31 D '23; Abstract. Soc Chem Ind J (Chem & Ind) 42:1139 N 23 '23

Preparation of raffinose from cottonseed meal. D. T. Englis, R. T. Decker and A. B. Adams. Am Chem Soc J 47:2724-6 N '25

RAFTERS

Foreman talks about the uncommon rafter. E: H. Crussell. diags Bldg Age 47:124+ Jl '25

The *un* common rafter. E: H. Crussell. diags Bldg Age 47:101-2 Ag '25

RAFTS

Log rafts in the open ocean. il Sci Am 130: 243 Ap '24

RAG testing. See Paper making materials—Testing

RAIL. See Rails

RAIL bender

Watson-Stillman improved power rail bender. il Elec Ry J 64:816 N 8 '24

RAIL bonds

Few bond testers tell the truth but here's one that will. F. F. MacWilliams. il diags Coal Age 26:593-4 O 23 '24

How a copper-to-steel bond is made, with tests proving its efficiency and endurance. J. B. Austin. il diags Coal Age 26:330-4 S 4 '24

Reclaiming rail bonds in Brooklyn. G. H. McKelway. Elec Ry J 63:974 Je 21 '24

Use of mold successful in arc welding copper rail bonds. C. F. Gailor. il diag Elec Ry J 62:1001-3 D 15 '23; Same. Eng & Contr (Ry) 61:125-7 Ja 16 '24

See also Rail joints

Testing

Bond testing and maintenance practice. Elec Ry J 65:87-9 Ja 17 '25

Rail bonding and testing. A. Johnston. Elec R (Lond) 95:791-2 N 21 '24

RAIL brakes. See Brakes, Track

RAIL-car. See Motor cars (railroad); Motor cars (street railroad)

RAIL cutting

Photographic chart illustrates standard method of rail cutting. il Ry R 74:216-17 F 2 '24

RAIL fastenings

Finger free track bolts save time. B. M. Cheney. Eng & Contr (Ry) 63:600-2 Mr 18 '25

Grip plates. il Eng & Contr (Ry) 61:1363 Je 18 '24

See also Rail joints; Railroad tie plates

RAIL joints

Arc-welded joint used without plates. diag Elec Ry J 64:327 Ag 30 '24; Same. Eng & Contr (Ry) 62:838 O 15 '24

Compromise joint plates made by welding shims to angle bars. diag Elec Ry J 63:619 Ap 19 '24; Same. Eng & Contr (Ry) 62:389-90 Ag 20 '24

Develop new rail section. diag Ry Age 79: 477-8 S 12 '25

Economics of track joint maintenance. Ry Age 76:731-2, 825-6 Mr 15, 29 '24

Expansion joint reduces noise. A. G. Grout. il Eng & Contr (Ry) 63:343-4 F 18 '25

Experience with bolted joints in San Francisco. il Elec Ry J 64:1028-9 D 20 '24

Improvements in arc-welded rail joints. R. B. Fehr. Elec Ry J 63:783-5 My 17 '24

Instance of electric weld stronger than rail head. diag Eng & Contr (Ry) 62:837 O 15 '24

Keeping down number of joint failures. Elec Ry J 65:858 My 30 '25

Maintenance of track joints. R. S. Cochrane. Eng & Contr (Ry) 60:1097-8 N 21 '23

Mitered rail joint. diag Eng & Contr (Ry) 62:1135 N 19 '24

Neafie improved rail joint. il diag Ry R 74: 524-5 Mr 15 '24

New type of joint fastening. il Ry R 74:1265-6 Je 28 '24

Non-deflecting rail joint. Eng N 92:485, 821 Mr 20, My 8 '24

Notched welds in rail head. diag Elec Ry J 64:316-17 Ag 30 '24; Same. Eng & Contr (Ry) 62:612-13 S 17 '24

Progress report by joint committee on welded rail joints. Aera 13:1226-7 F '25

Rail joint designs presenting new features. diags Eng N 93:536-7 O 2 '24

Rail joint welding. F. B. Walker and others. Elec Ry J 65:698-701 My 2 '25

Rail welding in Connecticut. diags Elec Ry J 63:537-9 Ap 5 '24

Rails and rail joints; report to the International railway congress. Engineer 139: 646-7 Je 12 '25; Engineering 120:10-11 Jl 3 '25; Ry Age 79:86-7 Jl 11 '25; Ry R 77:277-8 Ag 22 '25

Rapid track reconstruction with butt-welded joints. il Elec Ry J 64:831-3 N 15 '24

Track joint failures—cause and repair; a survey. il diags Elec Ry J 63:959-65 Je 21 '24

Traveling workshop for welding crew saves time. il Elec Ry J 63:769-70 My 17 '24

Welded rail joint committee progress report. Elec Ry J 65:988 Je 20 '25

Welded rail joint practice in Toronto. A. T. Spencer. Elec Ry J 63:981-2 Je 21 '24

See also Rail bonds

Testing

Making tests to save $15,000,000 a year. Elec Ry J 63:497-8 Mr 29 '24

Repeated impact tests are progressing. il Elec Ry J 65:252 F 14 '25

Test rail joint welds. Iron Tr R 75:1501-2 D 4 '24; Same. Eng & Contr (Ry) 63:142 Ja 21 '25

RAIL laying. See Railroads—Track

RAIL tractors. See Locomotives, Industrial

RAILINGS

See Balustrades

RAILINGS, Concrete

Bridge railing with precast posts adopted as standard. il diags Eng N 92:939 My 29 '24

Strength of concrete bridge rail and pressure of crowd; Springfield balustrade fails. il diag Eng N 94:200-1 Ja 29 '25

RAILROAD associations

List of mechanical associations and railroad clubs. Published in monthly numbers of Railway mechanical engineer

Meetings and conventions. Published in Railway age, first number of each month

RAILROAD bridges. See Bridges, Railroad

RAILROAD construction. See Railroads—Construction

RAILROAD co-operative building and loan association

Railroad co-operative building and loan association building, New York city. Arch & Bldg 57:53, pl 127-8 Je '25

RAILROAD education

Education for railway service in reach of all. H. E. Thompson. Ry Age 76:787-8 Mr 22 '24

University of Illinois offers course in transportation. G: Chapin. Ry Age 76:430 F 16 '24

Wide variety of railway courses offered by London school. Ry Age 75:1180 D 22 '23

See also Railroad engineering—Study and teaching; Railroads—Employees—Training

RAILROAD engineering

Die eisenbahntechnische tagung in Berlin. il diags Elektrotech Zeit 45:1165-86 O 30 '24

Elements of railroad engineering. W: G. Raymond. 4th ed., rev. 453p Wiley '23

Field engineering. W: H: Searles. 19th ed., rev. and enl. Wiley '25

Manual of instructions for the guidance of engineering field parties. J. M. Fair. Eng & Contr (Ry) 61:829-31 Ap 16 '24

Notes and data on railway engineering. F. Reeves. 178p C. Griffin & co., ltd., London '25

Railroad engineering through the half century. W: Hood. il Eng N 92:698-702 Ap 17 '24

See also Grade crossing elimination; Locomotives; Railroad surveying; Railroads—Construction; Railroads—Earthwork; Railroads—Location; Railroads—Maintenance and repair; Railroads—Track; *also* American railway engineering association; International railway congress

Study and teaching

Co-operative railway engineering courses; Central of Georgia railway and Georgia school of technology working out ambitious program. il Ry Age 77:921-4 N 22 '24

RAILROAD engineers

See Locomotive engineers; Railroad engineering

RAILROAD labor. See Railroads—Employees

RAILROAD labor board

Appropriations recommended for I.C.C. and Labor board. Ry Age 77:1020 D 6 '24

Decision as to enforceability of orders of Railroad labor board. Monthly Labor R 20:169-70 Ja '25

Decision of the Supreme court in the Pennsylvania railroad labor case. Ry R 76:468-71 Mr 7 '25

Decision of United States Supreme court upholding Railroad labor board in publication of violations of its decisions. Comm & Fin Chr 119:1922-3 O 25 '24

Decisions of Railroad labor board. Published in Monthly labor review

Enforcement of findings of United States Railroad labor board (Pennsylvania railroad case). Monthly Labor R 20:900-2 Ap '25

Federal court refuses to enjoin the Pennsylvania in labor case. Ry R 73:950 D 29 '23

Hearing before Senate Inter-state commerce committee on Howell bill to abolish United States Railroad labor board. Comm & Fin Chr 118:1622-4 Ap 5 '24; Excerpt. (H. Holden). Ry R 74:654-5 Ap 5 '24

Labor board acts in Virginian enginemen's strike. Ry Age 75:912 N 17 '23

Labor board awards wage increase to western enginemen. Ry Age 77:1034-6 D 6 '24

Railroads oppose the labor bill. Ry Age 76: 889-94 Ap 5 '24

Report on results of Labor board work. B. W. Hooper. Ry Age 75:1055-6 D 8 '23

Status of orders of the United States railroad labor board. Monthly Labor R 19:213-15 Jl '24

Strikes that never happened; work of the Railroad labor board. R. S. Henry. il Nation's Business 13:42-4 Ja '25

United States Supreme court limits power of United States railroad board in matter of compelling witnesses to appear in wage disputes. Comm & Fin Chr 120:3024 Je 13 '25

Work of Railroad labor board, April, 1920 to November, 1923. Monthly Labor R 18:759-62 Ap '24

RAILROAD land

See Northern Pacific railroad; Railway real estate association

RAILROAD land grants

Check-up on the steel trail blazer's empire. R. Hobson. il Am Bankers Assn J 16:712-14+ My '24

Letter of President Coolidge to Senator Lenroot urging congressional inquiry into Northern Pacific land grants. Comm & Fin Chr 118:965-6 Mr 1 '24

U.S. contests Northern Pacific land grant. Ry Age 76:1834-7 Je 28 '24

RAILROAD law

Be it enacted. R. S. Henry. Nation's Business 13:31-2 Jl '25

Bills introduced and laws enacted relating to railway operation; state legislatures, sessions of 1923. 333p American railway assn., New York and Chicago '24

Bills introduced and laws enacted relating to railway operation; state legislatures, sessions of 1924. 68p American railway assn., New York and Chicago '25

Cummins hopes for compromise on legislation. Ry Age 77:929-30 N 22 '24

Follies of 1925; an analysis and criticism of the administration and congressional attitude towards railroads. M. L. Bell. Ry Age 78:1289-91 My 23 '25

Friendlier attitude toward railroads. C: Layng. Ry R 77:386 S 12 '25

Gooding bill—a revolutionary measure. Ry Age 78:166-7 Ja 10 '25

Gooding bill; editorial. Ry Age 77:1152-3 D 27 '24

Gooding bill passed by Senate. Comm & Fin Chr 118:2534 My 24 '24

Gooding bill reported. Ry Age 76:839-41 Mr 29 '24

Hearing on Gooding bill. Ry Age 78:285-6, 328-30, 377-9, 403-6 Ja 24-F 14 '25; Comm & Fin Chr 120:788 F 14 '25

Hearing on railway labor bill. Ry Age 76: 794-6 Mr 22 '24

Howell-Barkley bill. Ry Age 77:919-20 N 22 '24

If radical legislation fails. Ry Age 76:1350-1 Je 7 '24

Labor bill to ruin the railways introduced in Congress by Representative Huddleston. Ry Age 76:1244-5 My 24 '24

Legislative situation. C: D. Morris. il Ry R 75:811-12 N 15 '24

Limiting power of the railroads to meet water competition; provisions of the Gooding bill. Index p 6-7 Ap '24

No radical railway legislation likely at this session. R. Bean. Annalist 23:133+ Ja 21 '24

Only five railway bills pass in sixty-eighth Congress. Ry R 76:709 Ap 11 '25

President recommends railroad legislation. Ry Age 75:1051 D 8 '23

Proposed legislation for consolidation of railroads. Comm & Fin Chr 121:1310-11 S 12 '25

Railroad labor bill taken from committee. Ry Age 76:1135 My 10 '24

Railroad legislative matters in Congress. Ry Age 76:249-51, 324, 373-4, 549-50, 753, 897-8, 1001-2, 1043-4, 1200-1, 1263-5, 1306-8, 1373-5; 77:1066, 1116; 78:459-60 Ja 19, F 2-9, Mr 8-15, Ap 5, 19-26, My 17-Je 7, D 13-20 '24, F 21 '25

Railroads and the new Congress. J: L. Leighton. Am Ind 24:21-2+ Ja '24

Railroads; cases and selections. E. Jones and H. B. Vanderblue, eds. 882p Macmillan '25

Railway legislation specialized in by Congress —172 bills introduced. Ry R 74:860-1 My 10 '24

Senator Cummins proposes consolidation law. Ry Age 76:331-5 F 2 '24

RAILROAD law—*Continued*
Winslow bill provides voluntary consolidations. Ry Age 77:1091-2 D 13 '24

See also Locomotives—Inspection; Railroads—Equipment trust; Railroads—Rates; Railroads—Safety devices and measures; Railroads—Valuation; Railroads and state; Street railroads—Law; Transportation act, 1920

RAILROAD libraries
Bessemer & Lake Erie railroad company. J. Callan. Special Lib 16:281-6 O '25
Southern Pacific library. Special Lib 16:58 F '25

See also Seaboard air line railway—Library

RAILROAD master blacksmith's association, International. See International railroad master blacksmiths' association

RAILROAD mergers. See Railroads—Consolidation

RAILROAD motor cars. See Motor cars (railroad)

RAILROAD owners' association
Plans for a country wide organization. Comm & Fin Chr 118:3042 Je 21 '24; Ry R 74:1269 Je 28 '24

RAILROAD rates. See Railroads—Rates

RAILROAD shopmen's strike, 1922
Attorney general reports to Congress on shop strike. Ry Age 76:744 Mr 15 '24
Removing effects of shop employees' strike. Ry Age 76:1300 My 31 '24
Results of the shop strike to date. Ry Age 78:539-40 Mr 7 '25

RAILROAD shops. See Electric railroads—Shops; Locomotive shops; Railroads—Shops

RAILROAD stations. See Railroads—Stations

RAILROAD supplies. See Railroads—Equipment and supplies

RAILROAD supplies industry
Are the railroads in the markets? charts Ry Age 79:273-4 Ag 8 '25
Harbingers for 1925 and after. A. B. Johnson and others. Ry Age 78:23-6 Ja 3 '25
Need railroads' co-operation. C: J. Graham. Iron Tr R 77:747-8 S 24 '25; Same. Iron Age 116:831-2 S 24 '25; Same. Ry Age 79:607-8 O 3 '25
Price trends and purchasing problems. charts Ry Age 79:191-4 Jl 25 '25
Prices maintain uniform levels during 1923. W. S. Lacher and E. L. Woodward. Ry Age 76:24-31 Ja 5 '24
Railway supply industry. S. O. Dunn. Ry Age 78:553-6 Mr 7 '25
Salesmanship that unravels the red tape of railroad buying. C. W. Hamilton. il Sales Management 8:182-3+ Ja 24 '25

See also Railroad ties; Railroads—Purchasing

Exhibitions

Annual exhibition, 16th, of the National railway appliances association. Eng & Contr (Ry) 61:651 Mr 19 '24
Track exhibits at Atlantic City. il Ry R 74:1221-7 Je 21 '24
Track supply association's exhibit. Ry Age 79:577-8 S 26 '25

Service

Service engineers. L. F. Wilson. Ry R 75:329-30 Ag 30 '24

RAILROAD surveying
Making railway reconnaissance surveys in Canada by aerial methods. H. K. Wicksteed. il map Eng N 94:220-4 F 5 '25; Discussion. 94:408, 614 Mr 5, Ap 9 '25

See also Railroad engineering; Railroads—Curves and turnouts; Railroads—Location

RAILROAD tie plates
Large uses of steel in small ways. il Iron Tr R 74:1236-7 My 8 '24
Railway Lock-spike co. spike and tie plate to be used in combination. il Ry R 76:479 Mr 7 '25

RAILROAD tie pullers
Tie pulling and replacing device. diags Eng & Contr (Ry) 61:1141-2 My 21 '24

RAILROAD ties
Bad weather reduces cross tie production. il Ry Age 76:289-93 Ja 26 '24
Burlington opens saw mill to meet purchasing problem. il Ry Age 79:653-6 O 10 '25
Committee urges railroads to conserve forest products. Ry R 76:931-4 My 23 '25; Ry Age 78:1276-7 My 23 '25
Cross tie conditions on the Pacific coast. M. E. Kline. Ry R 74:146-8 Ja 19 '24; Abstract. Ry Age 76:292-3 Ja 26 '24
Demonstration of the value of treating cross ties. Ry Age 77:1124-5 D 20 '24
Economies in distributing forest products. H. R. Condon. Ry Age 76:1692-3 Je 18 '24
Evolution of railway sleepers (ties). Eng & Contr (Ry) 61:122-3 Ja 16 '24
Financial aspect of tie preservation. H. S. Sackett. Ry Age 76:423-4 F 16 '24
Fluctuation in tie purchases. F. D. Reed. Ry Age 78:415-16 F 14 '25
Handling ties. il Eng & Contr (G C) 63:845 Ap 17 '25
How a road can forecast its tie requirements. E. Stimson. Ry Age 76:993-4 Ap 19 '24; Same. Eng & Contr (Ry) 61:1106-7 My 21 '24
How to inspect and identify ties for renewal. Ry Age 79:576-7 S 26 '25; Ry R 77:531-2 O 3 '25
Illogical tie situation. Eng & Contr (Ry) 63: 555-7 Mr 18 '25
Importance of more durable ties. Eng & Contr (Ry) 62:379-80 Ag 20 '24
Importance of plugging spike holes. Eng & Contr (Ry) 61:831 Ap 16 '24
Is the treatment and use of partly decayed ties justified? W. H. Long. Ry Age 78:365-6 F 7 '25
Lehigh Valley tie renewals now below 100 per mile. Ry Age 77:204 Ag 2 '24
Making ties last longer. il Aera 13:1028-31 Ja '25
Mechanical unit for handling crossties. Elec Ry J 66:99 Jl 18 '25
More ties treated in 1923. Ry Age 77:812 N 1 '24
New tie-treating plant on the Oregon-Washington R.R. il diags plan Eng N 92:894-6 My 22 '24
Old ties burnt for valuable charcoal. Ry R 75: 371 S 6 '24
Overhead cranes serve new creosoting plant. il plan Ry Age 77:1055-8 D 13 '24
Performances of untreated cross ties. F. S. Pooler. Eng & Contr (Ry) 62:1329-30 D 17 '24
Preferences as to tie size and spacing. G. F. Hand and others. Eng & Contr (Ry) 61: 1351-7 Je 18 '24
Preservative treatment of ties on the Boston and Maine railroad. F. C. Shepherd. il Boston Soc C E J 12:101-27 Mr '25
Preservative treatment saves ties. Ry R 76: 833 My 2 '25; Eng N 94:844 My 21 '25
Pressure treatment of ties. Eng & Contr (Ry) 62:641-3 S 17 '24
Production of southern pine ties. C. D. Christian. Ry Age 76:291-2 Ja 26 '24
Railway purchases of crossties and poles in 1923. Ry Age 77:1112 D 20 '24
Railways and wood preservation. R. H. Aishton. Ry R 75:834-7 N 22 '24; Same cond. Ry Age 77:952-4 N 22 '24
Reclaiming checked hardwood ties. il Eng N 92:417 Mr 6 '24
Reconditioning ties in Australia. Eng & Contr (G C) 64:873 O 21 '25
Re-grading of ties affords check on field inspection. il Ry Age 79:237-8 Ag 1 '25
Report of A.R.A. committee on forest products. il Ry Age 76:1689-91; Discussion. 1691-2 Je 18 '24
Report of committee on wood preservation, A.R.E.A. Ry R 74:566-7 Mr 22 '24; Excerpt. Elec Ry J 63:510 Mr 29 '24
Results of a 14-year service test of treated ties on C.B. & Q.R.R. J. H. Waterman. Eng & Contr (Ry) 61:152-4 Ja 16 '24

RAILROAD ties—*Continued*
Results of 15 year service tests on treated ties on the C.B. & Q. J. H. Waterman. Eng & Contr (Ry) 63:347-9 F 18 '25
Santa Fe reduces tie renewals to 128 per mile of track. Ry Age 77:60 Jl 12 '24
Santa Fe timber treating plant employs modern methods. il plan Ry Age 77:359-61 Ag 30 '24
Segregation of cross ties by grades and groups. F. McCrory; A. R. Fathman. Ry Age 78:417-18 F 14 '25
Substitute ties and tie-plates in France. Eng N 95:539 O 1 '25
Traveling cranes used to reduce cost of handling ties. Eng N 94:406-7 Mr 5 '25
Treated ties and timber conservation. Eng & Contr (G C) 64:180 Jl 15 '25
Treating five charges of timber in eleven hours. il diag Ry Age 78:310-13 Ja 31 '25
22 year life from petroleum treated ties in Hungary. C. M. Taylor. il Ry Age 77:1028 D 6 '24
What is the average life of ties? abstracts. W. F. Goltra. Ry Age 79:311-15 Ag 15 '25; Ry R 77:236-40 Ag 15 '25; Eng N 95:1034 D 24 '25; Discussion. Ry Age 79:387-8, 466 Ag 29, S 12 '25
What the railroad engineer expects in cross ties. E. Stimson. Ry Age 78:416-17 F 14 '25
When is rot not rot? W. H. Long. Ry R 76: 826-30 My 2 '25
Wood preservation reduces Santa Fe's tie renewals. Ry Age 78:874 Ap 4 '25
Wood preservers show economy of treatment. il Ry Age 76:233-5 Ja 19 '24
Zinc chloride treatment for car timber and as tie preservative. H. von Schrenk. Ry R 74:169-70, 181-2 Ja 26 '24

See also Otheograph; Railroads—Construction; Railroads—Track

Testing

Methods for installing tie test tracks. Ry R 76:274-5 F 7 '25
Report of tests on substitute ties. Ry R 74: 499-501 Mr 15 '24; Eng & Contr (Ry) 61: 1123-9 My 21 '24
Test tie sections inspected. Ry R 73:803-4 D 1 '23

RAILROAD ties, Concrete
Asbeston—concrete tie. il Eng & Contr (Ry) 62:395-9 Ag 20 '24
Asbeston railroad tie. diag Eng & Contr (Ry) 61:154 Ja 16 '24
Concrete block tie used successfully in India; the Stent concrete sleeper. il diags Eng & Contr (Ry) 61:163-8 Ja 16 '24; Ry R 74: 430-3 Mr 8 '24
Concrete ties for light-traffic track in France. diags plans Eng N 92:761 My 1 '24
Concrete ties tried in Bangor. il Elec Ry J 64:806 N 8 '24
Experiments with concrete ties. il diags Eng N 95:708-9 O 29 '25
Long service life of concrete ties. Eng & Contr (Ry) 63:567 Mr 18 '25
Railway ties of concrete for India's railways. il Sci Am 130:387 Je '24

RAILROAD ties, Steel
Concrete filled steel tie. W. D. Bearce. diag Ry R 77:292 Ag 22 '25
Experimental steel ties designed by A.R.E.A. committee. diag Eng N 94:770 My 7 '25
Hollow steel ties tried in Germany. Eng N 94:273 F 12 '25
Ueber die ursachen der vorzeitigen zerstörung von rippenschwellen. R. Kühnel and G. Marzahn. il Stahl & Eisen 44:175-8 F 14 '24

RAILROAD tracks. See Mine tracks; Railroads—Track

RAILROAD yards. See Railroads—Yards

RAILROADS
Business of railway transportation. L: H. Haney. 613p Ronald press '24
Engineering essentials, including the elements of mathematics, physics, geometry, mechanical drawing, blueprint reading, etc. 415p Railway training institute, Chicago '25
Marvels of railways. A. Williams. 249p Lippincott '24
Railroads as factors in business. C. H. Markham. Ry Age 77:601-4 O 4 '24
Tornado relief work by the railroads. Ry R 76:866-7 My 9 '25

See also Air brakes; Bridges, Railroad; Cable railroads; Cableways; Cars; Electric railroads; Elevated railroads; Freight car service; Freight cars; Grade crossings; Locomotive shops; Locomotive terminals; Locomotives; Mine tracks; Motor cars (railroad); Mountain railroads; Radio telegraph on railroads; Radio telephone on railroads; Rail bonds; Rail joints; Railroad engineering; Railroad ties; Rails; Railway mail service; Rapid transit; Refrigerator car lines; Roundhouses; Street railroads; Subways; Terminals; Train ferries; Train resistance; Transportation; Travelers' aid societies; Trestles; Tunnels and tunneling; *also* International railway congress; National association of railway and utilities commissioners; *also* names of railroads, e.g. Chicago, Milwaukee & St Paul railroad; New York Central railroad; Pennsylvania railroad

Abandonment

Causes of railroad abandonments. Ry Age 79: 865-6 N 7 '25
Railroad abandonments and their relation to highway transportation. H: R. Trumbower. Pub Roads 6:169-73 O '25; Excerpt. Eng & Contr (G C) 64:1304 D 16 '25
What about the patrons of an abandoned road? il map Ry Age 76:1077-9 My 3 '24

See also Railroads—Mileage

Accidents

Accident bulletin for the calendar year 1923. Ry R 75:660-2 N 1 '24; Ry Age 77:836-7 N 8 '24; Safety Eng 48:225-6 N '24
Accident bulletin for the year 1924. Ry Age 79:867 N 7 '25
Accident due to engineer's physical condition. Ry R 73:733-4 N 17 '23
Accident investigations; July-December, 1923. Ry Age 77:11-14 Jl 5 '24
Accident investigations; January-March, 1924. Ry Age 77:104-6 Jl 19 '24
Accident investigations for second quarter, April, May and June, 1924. Ry Age 77:759-61 O 25 '24
Accident investigations—July, August and September. Ry Age 78:799-801 Mr 21 '25
Accident investigations—October, November and December. Ry Age 79:322-4 Ag 15 '25
Accident investigations—January, February and March. Ry Age 79:560-2 S 26 '25
Accident result of laxity in obeying rules. Ry R 73:720-1 N 17 '23
Accidents on the railways of Great Britain during 1923. Engineering 118:484+ O 3 '24; Econ W n s 28:494-5 O 4 '24; Eng & Contr (Ry) 62:1117 N 19 '24
Bureau of safety, Interstate commerce commission, reports on Caspar wreck. il Ry R 73:854-7 D 15 '23
Bureau of safety reports on wreck at Buda, Ill. diag Ry R 75:349-54 S 6 '24; Conclusions. Ry Age 77:426 S 6 '24
Collision at Avon, Oregon. Ry Age 77:490 S 20 '24
Derailment due to false clear signal indication near Columbus, O. Ry R 74:322 F 23 '24
Derailments of locomotives on curves. R. C. Beaver and M. B. Richardson. diags Ry Mech Eng 98:721-5; 99:16-20 D '24-Ja '25
Englewood and Chippewa Falls accidents. Ry. Age 78:324 Ja 31 '25
Fatal accidents to passengers on American railroads in 1923. Econ W n s 28:782 N 29 '24
Head-on collision near Hillendale, Texas, due to failure to obey train order. Ry R 74:776 Ap 26 '24
International report on car coupling accidents. Ry Age 77:517-18 S 20 '24

RAILROADS—Accidents—*Continued*

Interstate commerce commission report on Forsyth collision. Ry Age 76:251-2 Ja 19 '24; Ry R 74:189-92 Ja 26 '24

Lessons of six train-accidents. Ry Age 75: 957-8 N 24 '23

Loose car wheel tire causes derailment near Wabasso, Fla. Ry R 76:312-13 F 14 '25

Lytham railway accident. Engineering 119: 513-14 Ap 24 '25; Engineer 139:457 Ap 24 '25; Discussion. J. Moscrop. Engineering 119: 574 My 8 '25

National cost of railroad accidents. L. R. Palmer. Ry Age 75:1013-18 D 1 '23

Public service commission's report on Forsyth wreck. Ry R 73:930-1 D 29 '23; Ry Age 75:1195-6 D 29 '23

Railroads operated with greatest degree of safety on record. R. H. Aishton. Comm & Fin Chr 120:2769-70 My 30 '25

Railway accidents in Great Britain. Spectator 115:4 S 24 '25; Engineering 120:360-1 S 18 '25

Rear collision on the Burlington at Buda, Illinois. diag Ry Age 77:61-2 Jl 12 '24

Recent railway accidents in France. Engineer 140:243-4 S 4 '25

Report on accident near Annville, Pa., caused by broken rail. Ry R 74:803-4 My 3 '24

Report on collision at Linworth, Ohio. Ry Age 77:452 S 13 '24

Report on collision at Manhattan Transfer. Ry Age 78:1203-4 My 16 '25

Report on Cranford derailment. Ry Age 77: 614 O 4 '24

Report on Oakland collision. il Ry Age 78: 571-2 Mr 7 '25

Report on the Burlington disaster at Lockett, Wyo. Ry Age 75:1052 D 8 '23

Seventeen passengers killed at Victoria, Miss. il Ry Age 79:813 O 31 '25

Storm causes fatal accident on D. L. & W. near Hackettstown, N.J. il Ry Age 78: 1537-8 Je 20 '25

Superfluous train accident investigations. Ry Age 77:281-2 Ag 16 '24

Supplemental report on the Readville accident, N.Y., N.H. & H.R.R. Ry R 75:601 O 18 '24

Varied phases of the collision problem. Ry Age 78:1194 My 16 '25

Wreck of the Twentieth Century Limited. il diag Ry Age 75:1097-9 D 15 '23

See also Electric railroads—Accidents; Explosives—Transportation; Grade crossing accidents; Harriman medal; Locomotives—Failures; Railroads—Safety devices and measures; Railroads—Signals; Street railroads—Accidents

Accounting

Accounting officers meet at San Francisco, July 9-11. Ry Age 77:113-22 Jl 19 '24

Aid to economical operation. G: G. Yeomans. Ry Age 76:749 Mr 15 '24

Analysis of equipment maintenance expenses. J. L. White. il Ry Age 76:507-10 Mr 1 '24

Analysis of the cost of freight car repairs. J. L. White. Ry Age 77:21-4 Jl 5 '24

Analyzing shop output and costs. J. E. Slater. Ry R 76:648-51, 698-701 Ap 4-11 '25; Same cond. Ry Age 78:507-11 F 28 '25

Cost control for the mechanical department. G: W. Armstrong. il Ry Mech Eng 98:459-63 Ag '24; Same. Ry Age 77:363-7 Ag 30 '24

Division disbursement accounting on S.A.L. L. L. Knight. Ry Age 77:287-92 Ag 16 '24

Eliminating curves in the accounting department. J: C. McNeil. Ry R 76:1017-18 Je 6 '25

Employing mechanical aid in shop accounting. D. S. Treat. Ry R 77:286-9 Ag 22 '25

Extensive duties of accounting department. E. T. Dakin. Ry Age 76:900 Ap 5 '24

Factors concerning the economics of shopping steam locomotives. L. K. Sillcox. Mech Eng 47:419-25 sec 2 My '25; Same cond. Ry Age 78:1263-6 My 23 '25; Same cond. Am Mach 62:915-18 Je 11 '25; Same cond. Ry Mech Eng 99:355-60 Je '25; Same cond. Ry R 76:1147-9 Je 20 '25

Forward step in accounting. G: G. Yeomans. Ry Age 76:918 Ap 12 '24

Identification of material handling costs develops unusual possibilities. il plan Ry R 75:706-14 N 8 '24

Is there a need for maintenance of way cost data? J. L. White. Ry Age 79:189-90 Jl 25 '25; Discussion. C. A. Morse. 79: 303-4 Ag 15 '25

New accounting classification. J: Hurst. Ry Age 76:1302 My 31 '24

New accounting classification will suffer from haste. Ry Age 76:1753-4, 1803 Je 21-28 '24

New problems of the accounting officer. A. J. County. Ry Age 77:109-12 Jl 19 '24; Same. Ry R 75:100-3 Jl 19 '24

Nouvelle méthode pour la détermination des prix de revient et la tarification des transports par chemins de fer. Génie Civil 86: 146 F 7 '25

Problem of mechanical statistics. J. E. Slater. Ry Age 76:1524-5 Je 14 '24

Procedure for material stores accounts payable. J. C. McNeil. Ry R 77:429-33 S 19 '25

Proposed operating expense classification. Ry Age 76:325-8, 415-17 F 2, 16 '24; Discussion. A. J. County. 76:734 Mr 15 '24

Punch cards for bills receivable. M. J. Howell. Ry Age 79:321-2 Ag 15 '25

Railroad accounting by use of perforated cards. il Ry R 76:980-5 My 30 '25

Railroad accounts and statistics. C: E. Wermuth. 349p Prentice-Hall '24

Railway accounting officers association 37th annual meeting, Atlantic City, June 9-12. Ry Age 78:1515-25 Je 20 '25

Railway accounting opportunities. W: Sproule. Ry R 75:310-11 Ag 30 '24

Railway accounting procedure. E. R. Woodson, ed. 611p Railway accounting officers assn., Washington '24

Revision of operating expenses classification. Ry Age 75:1197-9 D 29 '23

Some essential aids to more prudent management. Ry R 77:159-60, 308-11 Ag 1, 29 '25

Statistical bureau of freight auditor's office; Chicago Milwaukee & St Paul Ry. L. R. Wolff. il Ry R 77:41-7 Jl 11 '25

Suggested short cuts in disbursement accounting. J: C. McNeil. Ry R 77:595-7 O 17 '25

See also Railroads—Finance; Railroads—Stores systems; Railroads—Valuation

Bibliography

List of references on American railway accounting. 159p Lib. Bur. of railway economics, Washington, D.C.

Advertising

Advertising that intangible of intangibles—a desire. Ptr Ink 130:189-90 Mr 26 '25

Exhibit of advertising posters of foreign railways; typewritten list of posters. 8p Lib. Bur. of railway economics, Washington, D.C.

How British railways use booklet advertising. B. F. Berfield. il Ptr Ink M 10:35-7+ Je '25

How the Australian railways promote cooperation. Ry Age 75:1059-60 D 8 '23

How the B. & O. built a market for its new flyer. Ptr Ink 131:10+ Je 25 '25

Institutional advertising of the Gulf Coast lines. Ry R 74:879-80 My 17 '24

Katy advertises by advertising a community; uses newspaper space to attract freight business. G. A. Nichols. Ptr Ink 125:153-4+ N 15 '23

Northwestern railroads seek by homeseekers' rates and broad publicity to develop territory. Manuf Rec 86:85-7 D 4 '24

Program for getting acquainted with the public; Michigan railroad association. P. H. Bruske. il Ry R 73:684-7 N 10 '23

Railroad dining car as an advertising force. Ptr Ink M 10:94+ My '25

Selling travel to millions with 20,000 photos. B. R. Brooker. il Ptr Ink M 9:22-4+ Jl '24

Southern railway introduces new angle to railway advertising. il map Ptr Ink M 8: 39+ Ap '24

RAILROADS—Advertising—*Continued*
Trying out experiments in newspaper reproduction. W. L. Larned. Ptr Ink 131:17-20 Je 25 '25; Same. Inland Ptr 76:431-2 D '25
What is legitimate railroad advertising? Ptr Ink 127:101-4 My 22 '24
What railroads can tell the government about advertising. Ptr Ink 127:115-16+ My 8 '24
What's wrong with the railroads? A. Stote. Ptr Ink 128:91-2+ Jl 31 '24
When a business gets "in Dutch" with the public. Sales Management 8:33-4 Ja 10 '25
When can a company stop advertising? "Never" is answer of Canadian Pacific. E. W. Beatty. Ptr Ink M 10:21-2 Ja '25
Worker in overalls as a sales angle. R. Crothers. Ptr Ink M 9:56 O '24

See also Electric railroads—Advertising; Railroads—Public relations; Street railroads—Advertising

Air brakes

See Air brakes

Automatic stop and train control

A.R.E.A. committee report on automatic train control. Ry R 76:513-14, 606-9 Mr 14, 28 '25
Are wayside signals necessary with train control? Ry R 76:896-8 My 16 '25
Automatic control of trains. Safety Eng 46: 291-3 D '23
Automatic substations for railway signaling and train control. H. M. Jacobs. il diags Gen Elec R 28:640-9 S '25
Automatic train control contracts awards. il Ry R 75:28-9 Jl 5 '24
Automatic train control installation completed on the Chicago, Rock Island & Pacific. il diag Ry R 73:899-904 D 22 '23; Ry Age 75: 1145-9 D 22 '23
Automatic train-control—its development and status. il Eng N 92:390-4 Mr 6 '24
Automatic train control on Missouri Pacific Ry. il diags Ry R 75:829-34 N 22 '24
Automatic train control on the Missouri Pacific R.R. B. H. Mann. diag Ry R 73:681-3 N 10 '23
Automatic train control progress. J: H. Dunn. il Ry Age 78:97-100 Ja 3 '25
C. & E. I. train control approved. il Ry Age 78:892-3 Ap 4 '25
C. & N. W. installs train control. J. A. Peabody. il charts Ry Age 79:354-8 Ag 22 '25
Commission approves Miller train control. Ry R 76:660-2 Ap 4 '25
Continuous conductive system of train control. diag Ry R 75:501-3 O 4 '24
Continuous train control, Pennsylvania R.R. A. H. Rudd. Ry R 75:654-7 N 1 '24
Continuous train control with cab signals. E. Von Bergen. Ry Age 79:555-7 S 26 '25; Same. Ry Mech Eng 99:613-16 O '25
Controlled manual block with train control. il diags Ry Age 77:843-7 N 8 '24
Cost of the automatic train stops. Ry Age 76:826 Mr 29 '24
Criticism and comment on preliminary installations of train control. Ry R 76:662-3 Ap 4 '25; Same. Ry Age 78:884-5 Ap 4 '25
D. L. & W. train control. Ry Age 79:143 Jl 18 '25
Delaware & Hudson asks injunction on automatic train control. Ry Age 78:879-80 Ap 4 '25
Delaware & Hudson co. tests legality of automatic train control orders. Ry R 76:111-12 Ja 10 '25
Development and tests on U.P. lines. A. H. McKeen. Ry Age 77:691-2 O 18 '24
Development of the ramp type on the C. & O. B. T. Anderson. Ry Age 77:687-9 O 18 '24
Drastic extension of automatic train control order. Ry R 74:137-40 Ja 19 '24; Same abr. Ry Age 76:247-8 Ja 19 '24
Economic advantages of automatic train control. J. Beaumont. Ry R 75:507-8 O 4 '24
Forestalling means in automatic train control. A. G. Shaver. Ry R 74:1119-20 Je 14 '24
Fundamentals of automatic train control. Ry R 76:237-41, 282-4, 310-11, 357-8, 393-5 Ja 31-F 28 '25
Great Northern installs train control. il diags Ry Age 78:183-7 Ja 10 '25
Great Northern train control petition denied. Ry Age 79:805-8 O 31 '25
Hearing on automatic train control at Washington. Ry R 74:853-4, 888-9+, 927-9+ My 10-24 '24; Ry Age 76:1145-8, 1209-12, 1255-8 My 10-24 '24
Important new policy in inspecting automatic train control installations. Ry R 74: 777 Ap 26 '24
Improvement of air apparatus in train control. diags Ry Age 76:425-7 F 16 '24
Injunction denied Delaware & Hudson in train control case. Ry R 76:1033-4 Je 6 '25
Interim inspection of train control. F. J. Sprague. Ry Age 76:1076 My 3 '24
I. C. C. inspects the Frisco's train control. il Ry Age 77:777-8 N 1 '24
Interstate commerce commission modifies train control order. Ry R 75:177-82 Ag 2 '24; Excerpt, with dissenting opinion. Ry Age 77:197-200 Ag 2 '24
Interstate commerce commission reports on Union Pacific train control. Ry R 77:360 S 5 '25
Maintaining train control equipment on locomotives. E. Wanamaker. il Ry Mech Eng 99: 40-4 Ja '25
Miller train control corporation develops speed apparatus. il Ry Age 75:1210-11 D 29 '23
Miller train control on the C. & E.I. H. H. Orr. Ry Age 77:689-90 O 18 '24
N. & W. completes train control. D. W. Richards. il diags Ry Age 78:1321-4 My 30 '25
O.-W. R. & N. train control approved. Ry Age 79:401-4 Ag 29 '25
Pennsylvania's experience with automatic stops. Ry Age 77:645-6 O 11 '24
Pittsburgh & Lake Erie tests train control. il diags Ry R 76:890-6 My 16 '25
Preliminary report on A.C.L. train-control installation. E. H. De Groot, jr. Ry Age 78: 1040 Ap 25 '25
Preliminary report on C.I. & L. train control. Ry Age 78:1631-2 Je 27 '25
Preliminary report on Lehigh Valley train control. Ry Age 78:1160 My 9 '25
Preliminary report on New Haven train control. Ry Age 79:398 Ag 29 '25
Preliminary report on Northern Pacific train control. Ry Age 78:1209 My 16 '25
Progress in automatic train control. il Ry R 74:75-6 Ja 5 '24
Progress in installation of automatic train control; statement in the annual report of the I.C.C. Ry R 76:90-1 Ja 3 '25
Progress in installing automatic train control devices. W. J. Harahan. Comm & Fin Chr 121:1185-6 S 5 '25
Railroads protest automatic train control. Ry R 74:427-30 Mr 8 '24; Samé abr. Ry Age 76:559-60 Mr 8 '24
Reading uses continuous control. A. H. Yocum. il plan Ry Age 79:761-4 O 24 '25
Regan system on 165 miles. L. Wyant. Ry Age 77:690-1 O 18 '24
Rehearing granted on automatic train control. Ry R 74:601 Mr 29 '24
Relation of air brakes to train control. G. H. Wood. Ry R 76:692-4 Ap 11 '25
Report of A.R.A. committee on automatic train control. Ry Age 76:185-6 Ja 12 '24
Report on automatic train control from the report of the Director of the Bureau of safety. Ry R 73:862 D 15 '23
Report on inspection of Pennsylvania train control. Ry Age 77:957 N 22 '24
Report on test of Southern Pacific train control. Ry Age 77:1174-5 D 27 '24
Rock Island places train control in service. il diag Ry Age 75:1145-8 D 22 '23; Same abr. Eng & Contr (Ry) 61:128-9 Ja 16 '24
Rock Island train control installation approved. Ry Age 75:1148-9 D 22 '23
Some details of the train-control problem; opinion of Commissioner McManamy. Ry Age 77:193-4 Ag 2 '24

RAILROADS—Automatic stop and train control —*Continued*
Southern installs train control. W. J. Eck. il diags Ry Age 78:1455-8 Je 13 '25
Sprague automatic train control on the N. Y. C. Ry Age 79:267 Ag 8 '25; Same. Ry R 77:214 Ag 8 '25
Statement on train control by Association of railway executives. W. J. Harahan. Ry R 76:126 Ja 10 '25
Time for train control installations extended. Ry Age 78:187-8 Ja 10 '25; Ry R 76:130 Ja 10 '25
Train control discussed by signal section of A.R.A. Ry Age 77:547-50 S 27 '24; Ry R 75:461-3 S 27 '24
Train control progress. Ry Age 78:372 F 7 '25
Train operation with automatic control, C. & O. Ry. il diags Ry R 74:449-61 Mr 8 '24
Train stop or train control. Ry Age 79:385 Ag 29 '25
Union continuous train control systems. il Ry Age 77:413-16 S 6 '24
Union Pacific installs train control. il plan Ry Age 79:97-101 Jl 11 '25
Unusual idea in automatic train control. il diags Ry R 74:723-31 Ap 19 '24
Will radio make our railroads safe? H. S. Pyle. il diags Radio N 6:903+ D '24

Bibliography

Books and articles of special interest to railroaders; compiled by Elizabeth Cullen. Published in weekly numbers of Railway age
Lists of books for young engineers in railroad work. Prof Eng 9:27-8 Je; 14-15 Ag '24

Brakes

See Air brakes; Brakes

Braking

Locomotive exhaust pipe for braking trains. diags Ry Mech Eng 99:184-5 Mr '25
Report on passenger train handling. Ry Age 76:1150-3 My 10 '24; Same. Ry Mech Eng 98:424-8 Jl '24
Results of improper handling of locomotive and air brakes. Ry Age 79:557-9 S 26 '25; Same. Ry Mech Eng 99:616-17 O '25

See also Air brakes; Brakes

Branch lines

See Railroads, Short line

Bridge foremen

Responsibilities of the bridge foreman. W. W. Casey. Eng & Contr (Ry) 62:1134-5 N 19 '24

Buffers

See Buffers (railroad)

Buildings and structures

A. R. A. report on department buildings and facilities. il Ry Age 76:1656-8 Je 17 '24
Attractive architectural treatment used on new office units for Florida East Coast at St Augustine. il plans Ry Age 78:1633-5 Je 27 '25
Bridges and structures discussed by A.R.E.A. Eng N 94:485-6 Mr 19 '25
Concrete mixtures under field conditions. T. P. Watson. il Am Concrete Inst Pro 21:31-43 '25; Same cond. Ry R 76:845-50 My 9 '25; Discussion. Am Concrete Inst Pro 21: 44-9 '25
Floors for railway buildings. Ry R 74:498-9 Mr 15 '24; Same. Eng & Contr (Ry) 61:1120-2 My 21 '24; Excerpts. Eng N 93:147 Jl 24 '24
Great Northern has new commissary. il Ry R 77:130 Jl 25 '25
Keeping a check on painting. F. C. Baluss. Eng & Contr (Ry) 62:1142 N 19 '24
Making better railroad concrete. Eng N 94: 381, 534 Mr 5, 26 '25
Model oil house of reinforced concrete, P. & R. Ry. R. J. Stackhouse. il Ry R 74:288-90 F 16 '24; Same. Ry Age 76:378-80 F 9 '24; Same. Ry Mech Eng 98:147-9 Mr '24
Modern equipped oil room on the N.Y.C. il Ry Age 77:1169-70 D 27 '24
New data on railway bridge and building work. Eng N 93:825-6 N 20 '24
Northern Pacific improves lumber seasoning facilities. il plans Ry Age 79:126-9 Jl 18 '25
Paints for railway buildings. Ry R 74:557-9 Mr 22 '24
Planning a construction program. Ry R 75: 210-12 Ag 9 '24
Railways will make many improvements in 1924. E. T. Howson. Ry Age 76:14-18 Ja 5 '24
Santa Fé engineering quarters in new office building; layout of engineering department and drafting room. il diags Eng N 95:464-6 S 17 '25
Santa Fe opens largest railroad office building at Topeka. il plan Ry Age 78:1155-8 My 9 '25
Timber construction proves most economical; Southern Pacific builds roundhouse and other buildings of wood. il diag plan Ry Age 77:677-9 O 18 '24

See also Bridges, Railroad; Car houses; Coaling stations; Culverts; Freight houses; Locomotive terminals; Railroads—Bridge foremen; Railroads—Shops; Railroads—Stations; Railroads—Storehouses; Railroads—Terminals; Railroads—Trainsheds; Roundhouses; Warehouses

Bumping posts

See Bumping posts, Concrete

Car departments

Improving car department service; abstracts. L. K. Sillcox. Ry Mech Eng 99:24-9, 104-7 Ja-F '25; Ry Age 77:1075-9, 1121-4 D 13-20 '24; Ry R 76:78-86 Ja 3 '25
What about the car department? Ry R 75:290 Ag 23 '24

Cars

See Car axles; Car cleaning; Car couplings; Car curtains; Car doors; Car heating; Car inspection; Car lighting; Car painting; Car roofs; Car seats; Car trucks; Car ventilation; Car wheels; Cars; Dining cars; Freight cars; Motor cars (railroad); Postal cars; Refrigerator cars; Sleeping cars

Certificates of convenience and necessity

Certificate for B. of L.E. road withheld. Ry Age 78:265-6 Ja 24 '25
Certificates of convenience and necessity issued by Interstate commerce commission during year. Ry R 76:87-9 Ja 3 '25

Chief clerks

Training of prospective chief clerks. C. U. Stapleton. Ry Age 77:464 S 13 '24

Claims

Annual convention, 33d, of the A.R.A. Freight claim division, New Orleans, April 15-18. Ry Age 76:1029-32 Ap 26 '24
Association of railway claim agents 36th annual meeting, Winnipeg, Man., June 17-19. Ry Age 78:1637-40 Je 27 '25
Big decreases in claims attributed to efficiency. C: Layng. Ry R 77:421 S 19 '25
Car man and freight claim prevention. J. Marshall. Ry R 75:796-7 N 15 '24
Carload damage as effected by delay to fruit and vegetables and livestock. W. F. Thiehoff. Ry Age 78:1399-1401 Je 6 '25
Concealed loss and damage. S. T. Heffner. Ry R 75:669-70 N 1 '24
Direct investigation proper plan of ascertaining facts in claim settlements. W. B. Kellett. Ry Age 78:1399 Je 6 '25
Economic losses in transit of fresh fruits and vegetables. J. Marshall. Ry R 75:291-4 Ag 23 '24
Freight claim payments decrease. A. L. Green. Ry Age 78:831-2 Mr 28 '25
Freight claim prevention activities on the Santa Fe. G. W. Lupton. Ry R 74:1151-3 Je 14 '24

RAILROADS—Claims—*Continued*
Freight claim prevention congress at Chicago on June 4 and 5 under the auspices of the Chicago claim conference. Ry Age 76:1503-5 Je 14 '24
Freight claim statistics for the man on the line. G. D. Brooke. Ry Age 77:17-18 Jl 5 '24
Loss and damage payments on fresh fruits and vegetables in which delay is the main factor. Ry Age 76:1031-2 Ap 26 '24
Loss of entire package. Ry R 75:46-7 Jl 12 '24
Necessity for still greater care and economy. W. B. Kellett. Ry R 76:969-71 My 30 '25
No reparation under long and short haul clause without proof of pecuniary damage. Ry Age 76:1224-5 My 17 '24
Report of committee on freight claim prevention. Ry Age 78:1397-8 Je 6 '25
Rough handling and unlocated damage. C. W. Watts. Ry R 77:328-9 Ag 29 '25
Train delays and loss and damage claims. G. D. Brooke. Ry R 74:971-2 My 31 '24
Watchfulness an aid in reducing claims on sewer pipe. E. F. Ford. Ry Age 79:101 Jl 11 '25

See also Electric railroads—Claims; Street railroads—Claims; *also* American railway association—Freight claim division; Association of railway claim agents

Clerks

Fluctuations in the number of railway clerks. Ry Age 76:1519-22 Je 14 '24
Railway clerical employment. C. U. Stapleton. Ry Age 78:790-1 Mr 21 '25

See also Railroads—Chief clerks

Coal mines

Northern Pacific develops Rosebud coal field. H. E. Stevens. il Ry R 77:695-7 N 7 '25; Same. Coal Age 28:660-3 N 12 '25

Conductors

Efficient passenger train conductor. F. R. Pechin. Ry Age 76:368 F 9 '24

Congresses

Die eisenbahntechnische tagung und ihre ausstellungen 1924. [bibliog. p. 382-8] VDI-verlag, Berlin '25

Consolidation

Attitude of the railroads with reference to consolidation. H. F. Lane. Am Bankers Assn J 16:478+ F '24; Same. Econ W n s 27: 328-9 Mr 8 '24
Balance of power in railroad consolidations. C: F. Speare. Am Bankers Assn J 17:553-4+ Mr '25
Consolidation. S. D. Warfield. Ry Age 78: 175-6 Ja 10 '25
Consolidation of our railroads. O. W. Underwood. Am Bankers Assn J 18:235-6+ O '25; Same. Comm & Fin Chr 121:117-20 sec 2 O 17 '25
Consolidation of railroads. W. M. W. Splawn. 290p Macmillan '25
Consolidation of roads. B. M. Robinson. Ry Age 79:856-7 N 7 '25
Consolidation proposals as they affect Michigan. F. H. Alfred. il Ry R 74:103-4 Ja 12 '24
Cummins bill for consolidation and federal incorporation. Ry R 74:231-2 F 2 '24
Details of proposed rail merger. Bradstreet's 52:526-7 Ag 16 '24; Ry Age 77:381-4, 421-3 Ag 30-S 6 '24; Ry R 75:231-3 Ag 16 '24
Development of British railway groups. Ry R 74:292-3 F 16 '24
Eliminating the weak railroads. E. R. Johnson. Am Ind 24:23+ Mr '24
Final arguments on consolidation plan. Ry Age 76:197-200, 243-4 Ja 12-19 '24
Final hearings on I.C.C. consolidation plan. Ry Age 75:971-6, 1019-20, 1052 N 24-D 8 '23; Ry R 73:774-5 N 24 '23
Financial aspects of railway consolidation. F. J. Lisman. Ry Age 75:1151-3 D 22 '23
Financial processes of railroad consolidation. A. J. County. il Ry R 74:145-6 Ja 19 '24
Fixed plan hinders consolidation. M. W. Potter. Ry Age 78:1167-8 My 9 '25
Four great eastern systems proposed to I.C.C. Ry Age 77:683-4 O 18 '24
Four-system consolidation plan. Ry Age 78: 315-19 Ja 31 '25; Ry R 76:245 Ja 31 '25
Hearing on consolidation bill. Ry Age 76:1259 My 24 '24
Hearing on consolidation bill. Ry Age 78:190-1, 220-3 Ja 10-17 '25
Hearing on Southern Pacific-E.P. & S.W. merger. Ry Age 77:457-8 S 13 '24
Hoover proposes plan to expedite consolidations. Ry Age 75:1124 D 15 '23; Same abr. Ry R 73:859-60 D 15 '23; Same cond. Eng N 91:976 D 13 '23
How consolidation has worked out in Britain—a typical road, the London, Midland & Scottish. Ry Age 75:1034 D 1 '23
How large systems are formed; Chicago, Burlington & Quincy. maps Ry Age 78:1653-6 Je 27 '25
How railroad consolidations can be facilitated. A. H. Harris. Forbes 15:351-2 D 15 '24
How the British railways were consolidated: 1921-1923. Eng N 92:536 Mr 27 '24
How the intricacies of a great railroad consolidation are solved. Ry R 76:285-6 F 7 '25
In the matter of the consolidation of railway properties of the United States into a limited number of systems. W: H: Williams. 68p Evening post job ptg. off., New York '23
Inter-state commerce commission and railroad consolidations. Comm & Fin Chr 120: 540-1 Ja 31 '25
Is any man big enough for the job? H: Bruere. Nation's Business 12:13-15 Ja '24
Is railway consolidation a remedy? W. E. Farris. Ry Age 75:1215-16 D 29 '23
Likely Southwestern rail merger. C: F. Speare. Am Bankers Assn J 17:670+ My '25
Making mythical railway omelets. F. Snow. Comm & Fin 13:479-80 Mr 5 '24
Modern Missouri Pacific. C: F. Speare. Am Bankers Assn J 17:376 D '24
Natural railroad consolidations. C: F. Speare. Am Bankers Assn J 17:331 N '24
No consolidation by compulsion. M. W. Potter. Nation's Business 13:13-15 Mr '25; Same. Ry R 76:471-4 Mr 7 '25
Nothing new in consolidation. Ry R 77:494-5 S 26 '25
Operating, financial, and earnings aspects of the Loree merger. A. Motelle. map Annalist 25:805-6 Je 15 '25
Our transportation problems. A. P. Thom. Ry Age 79:716-18 O 17 '25; Same cond. Ry R 77:554-6 O 10 '25
Pennsylvania objects to four-system plan. S: Rea. Ry Age 77:807-9 N 1 '24
Plan for railroad consolidation; attitude of Short line railroad association toward Nickel Plate merger. Ry Age 79:130-2 Jl 18 '25
President Coolidge urges expedition of consolidations. Ry Age 77:1027-8 D 6 '24
President favors voluntary consolidations. Ry Age 79:471-2 S 12 '25
Problem of railroad consolidation. L. M. D. Carlson. Univ J of Business 2:391-8 S '24
Progress of consolidation; I. C. C. authorizes acquisition of control of nearly 12,000 miles of road. H. F. Lane. Ry Age 78:48-9 Ja 3 '25
Progress of consolidation since the act of 1920. J. Grodinsky. Ry Age 77:1021-4 D 6 '24
Progress toward railroad consolidation. Eng N 94:395-6 Mr 5 '25
Proposed eastern railroad groupings criticised. Bradstreet's 52:685-6 O 25 '24
Proposed legislation for consolidation of railroads. Comm & Fin Chr 121:1310-11 S 12 '25
Proposed Loree railroad merger analyzed; traffic and geographical features. C: W. Foss. map Annalist 25:804+ Je 15 '25
Railroad consolidation; progress by voluntary action. Index p 3-4 O '24
Railroad consolidation will come. W. D. Hines. Am Bankers Assn J 16:512+ F '24

RAILROADS—Consolidation—*Continued*
Railway amalgamation in Great Britain. W: E: Simnett. 276p Railway gazette, London '23
Railway consolidation in England. Ry R 77: 635 O 24 '25
Real facts about railroad consolidation. F. J. Lisman. Ry Age 77:1059-61 D 13 '24; Excerpt. Forbes 15:366 D 15 '24
Reasons for railway consolidation. H. Hoover. Munic & Co Eng 66:266-7 Je '24
Report of I.B.A. railroad securities committee. Comm & Fin Chr 119:1457-8 S 27 '24; Same. Ry Age 77:582-4 O 4 '24
Senator Cummins proposes consolidation law; text of important provisions. Ry Age 76: 331-5 F 2 '24
Some consolidation considerations. L: H. Haney. Ry Age 76:453-7 F 23 '24
Some of the disadvantages of consolidation. Ry R 77:657-9 O 31 '25
Some of the issues in railroad consolidations. Comm & Fin Chr 119:2454-5 N 29 '24
Some problems of railroad transportation. H: W. Thornton. Ry Age 77:779-82 N 1 '24; Excerpts. Ry R 75:769-70 N 8 '24
Terms of new railroad merger announced. Bradstreet's 52:575 S 6 '24
U.S. trade commissioner to England reports on success of railway consolidation in Great Britain. Ry Age 76:435-6 F 16 '24
Van Sweringens and Erie. J. H. McMullen. Comm & Fin 13:525-6 Mr 12 '24
Voluntary rather than compulsory consolidation recommended by Chamber of commerce committee. Ry Age 75:962-3 N 24 '23; Ry R 73:757 N 24 '23; Eng N 91:974-6 D 13 '23
Weak and strong in consolidations. Ry Age 79:343-4 Ag 22 '25
Winslow bill provides voluntary consolidations. Ry Age 77:1091-2 D 13 '24
Year of consolidation in Britain. W. H. Fraser. il Ry Age 76:99-102 Ja 5 '24

See also Van Sweringen system

Construction

Alternate route solves operating problem on Illinois Central. il diags Ry Age 76:1129-33 My 10 '24
Big Four cutoff involves monumental bridge; relocation at Sidney, Ohio. il map Ry Age 77:99-103 Jl 19 '24; Same. Eng & Contr (Ry) 62:847-54 O 15 '24
Building a railroad in record time; completion of Florida, Western & Northern. il map Ry Age 79:349-53 Ag 22 '25
Building a railroad under unusual conditions; Cuba railroad. B. B. Shaw. il map Ry Age 79:792-4 O 31 '25
Building the Amaga railway extension in Colombia. il maps Eng N 95:620-3 O 15 '25
Building the Hudson river connecting railroad. il map plan Eng N 92:108-11 Ja 17 '24
C.N.R. shortens transcontinental line 102 miles. C. S. Gzowski. il map Ry Age 75:947-50 N 24 '23
Central of Georgia railway improves busy line. G: E. Boyd. il maps Ry R 77:507-12 O 3 '25
Central of Georgia reconstructs Columbus-Birmingham line. il map Ry Age 79:75-8 Jl 11 '25
Colorado's six-mile tunnel under the Rockies. T. M. Fisher. il Sci Am 129:406 D '23
Construction features of F.W. & N.R.R. F. Ramsaur. il Eng & Contr (G C) 63:1093-1101 My 20 '25
Construction progress on the Natron cutoff. il map Eng N 93:504 S 25 '24
Construction progress records and charts; C., B. & Q.R.R. Eng N 92:416-17 Mr 6 '24
Double-tracking and relocation on the Santa Fé Ry. il map Eng N 94:382-8 Mr 5 '25
Double tracks for the N. & W. Big Sandy line. G: E. Boyd. il maps Ry R 77:273-6 Ag 22 '25
Extension of Temiskaming & Northern Ontario Ry. il maps Ry R 76:411-22 Mr 7 '25
Florida East coast improvement program for 1925. Ry Age 78:1004, 1113 Ap 11, My 2 '25
Frisco makes important line improvements. il maps Ry Age 76:275-9 Ja 26 '24; Same. Eng & Contr (Ry) 61:395-9 F 20 '24
Hudson River connecting railroad. W. F. Jordan. W Soc E J 30:411-18 O '25; Excerpt. Eng & Contr (G C) 64:1346-7 D 16 '25; Discussion. W Soc E J 30:418-19 O '25
Illinois Central R. R. begins work on Illinois-Kentucky main line. map Eng N 93:918 D 4 '24
Illinois Central starts construction of Edgewood cut-off. J. C. Jacobs. map Ry R 75: 962-3 D 13 '24
Improving Cleveland-Pittsburgh line—Pennsylvania R.R. il maps Eng N 93:88-92 Jl 17 '24
Larger program of railroad building. C. S. Gzowski. il maps Ry R 75:683-90 N 8 '24
L. & N. adds to facilities in eastern Kentucky. il diag maps Ry Age 76:537-41 Mr 8 '24
Methods of installing or replacing culverts and pipe lines under traffic. Eng & Contr (Ry) 60:1062 N 21 '23
New 17-mile cut-off eliminates pusher service. il map Ry Age 77:442-6 S 13 '24
Norfolk & Western double tracks its Big Sandy line. il diag map plan Ry Age 79: 263-7 Ag 8 '25
Northern Pacific Ry. completes line diversion at Minneapolis. il diags map plans Ry R 74:673-80 Ap 12 '24
Oil engine driven air compressor car for railroad construction work. il Ry R 75:137-8 Jl 26 '24
Pioneer railway engineering. H. Stringer. 269p H.F. & G. Witherby, London '23
Primitive methods most effective on Mexican project. E. B. Sloan. il Ry Age 79:223-5 Ag 1 '25
Progress on construction of Natron cut-off. Ry R 75:999-1000 D 20 '24
Railway location in the Philippines. H. V. Campbell. map Eng & Contr (G C) 64: 176-9 Jl 15 '25
Rapid railroad construction on Florida line. il map Eng N 94:927-8 Je 4 '25; Discussion. 95:114 Jl 16 '25
Rebuilding 178 miles of line in four months. W: S. Wollner. il map Ry Age 77:319-22 Ag 23 '24
Recent developments on the T. & N.O. railway. S. B. Clement. Can Eng 45:573-7 D 11 '23; Excerpt. Eng & Contr (Ry) 60:1277-82 D 19 '23
Rush work on the Natron cutoff, Central Pacific Ry. il diags Eng N 94:388-90 Mr 5 '25
Santa Fe builds 49-mile cut-off in Kansas. il map Ry Age 75:1191-5 D 29 '23
Santa Fé railway builds low-grade line in Kansas. il diags plan Eng N 92:275-9 F 14 '24
Seaboard air line R. R. builds Florida extension. map Ry R 77:165-8 Ag 1 '25
$30,375,000 of new railway construction authorized. Eng & Contr (G C) 64:630 S 16 '25
Union Pacific builds 95-mile Idaho-Nevada line. il diag Eng N 94:390-1 Mr 5 '25
Union Pacific loop puts Boise, Idaho, on main line. il map Eng N 92:1014-16 Je 12 '24
Work on Moffat tunnel now in full progress. il diags map Ry Age 77:889-94 N 15 '24

See also Ballast; Bridges, Railroad; Culverts; Electric railroads—Construction; Grade crossing elimination; Mountain railroads; Railroad engineering; Railroad ties; Railroads—Curves and turnouts; Railroads—Earthwork; Railroads—Electrification; Railroads—Grades; Railroads—Location; Railroads—Maintenance and repair; Railroads—Stations; Railroads—Terminals; Railroads—Track; Railroads—Track depression; Railroads—Winter construction; Rails; Tunnels and tunneling

Contract work

C. of N.J. locomotive repair contracts criticized. Ry Age 76:1831-3 Je 28 '24
Construction and repair of railway equipment. Ry Age 77:293-6 Ag 16 '24
Freight car repair industry addresses I. C. C. Ry Age 79:149-51 Jl 18 '25; Ry R 77:105-9 Jl 18 '25
Repairing locomotives in contract shops. F: H. Colvin. Am Mach 59:833-4 D 6 '23

RAILROADS—Contract work—*Continued*
Two recent developments in the transportation field. J. G. Condon. Ptr Ink 132:81-2+ Ag 20 '25

See also Railroads—Shops

Cost of operation

Comparative cost of steam and electric operation. A. H. Armstrong. il Gen Elec R 28: 212, 229-36 Ap '25
Condensed statistics of important factors affecting cost of freight transportation and estimate of cost of freight transportation on five railroads. Am Soc C E Pro 51:323 F '25
Cost of freight train delay. Ry R 74:774-5 Ap 26 '24; Ry Age 76:925-6 Ap 12 '24
Economic advantages of railway electrification; abstracts of report of operation on the Chicago Milwaukee & St Paul Ry. il charts map Ry R 76:378-87 F 28 '25; Ry Age 78: 514-18 F 28 '25; Eng N 94:411 Mr 5 '25; J Elec 54:207-9 Mr 15 '25; Power Pl Eng 29: 364 Mr 15 '25; Discussion. Ry Age 78:541-2 Mr 7 '25
Economy of helping trains over ruling grades. O. O. Carr. Ry R 76:113-14 Ja 10 '25
Electrical equipment causes big saving. Elec Ry J 65:338-41 F 28 '25
Electrification economies on the Chicago, Milwaukee & St Paul railway. W. D. Bearce. il map Gen Elec R 28:212, 218-28 Ap '25
Estimated cost of stopping and starting trains. O. O. Carr. il Ry R 74:807-8 My 3 '24; Same, without table. Eng & Contr (Ry) 62:405-6 Ag 20 '24
Increases in railroad unit costs; abstracts. M. O. Lorenz. Ry Age 78:307-8 Ja 31 '25; Ry R 76:223-4 Ja 31 '25
Long engine runs on the Burlington; monthly savings exceed nine thousand dollars. il map Ry Age 78:971-6 Ap 18 '25; Same. Ry Mech Eng 99:261-5 My '25
Railroad legislation and railroad efficiency under government and under private control. C: Donnelly. Ry R 75:431-4 S 20 '24
Saving of 15 cents per freight train-mile made last year. Ry R 76:575 Mr 21 '25
What an extra car on a train costs. Ry R 77:245 Ag 15 '25

Costs

Analysis of equipment maintenance expenses. J. L. White. il Ry Age 76:507-10 Mr 1 '24
British railway working costs. Economist 98: 617-18 Mr 22 '24
Cost-of-living index for steam railroads. J. C. Hooker. J Account 38:22-30 Jl '24
Economy in maintenance of equipment expenses. Ry Age 77:531-2 S 27 '24
Equipment maintenance out of proportion. Ry Age 75:1155-60 D 22 '23; Discussion. 76: 177-8, 486-7 Ja 12, Mr 1 '24
Equipment repairs burdened railways in 1923. Ry Age 76:739-43 Mr 15 '24
Is there a need for maintenance of way cost data? J. L. White. Ry Age 79:189-90 Jl 25 '25; Discussion. C. A. Morse. 79:303-4 Ag 15 '25
U. S. railway costs reduced. Can Eng 49: 155 Jl 21 '25

See also Locomotives—Cost of operation

Crossings

Steel crossings for railroads. il Iron Tr R 74: 795 Mr 20 '24

See also Grade crossing elimination; Grade crossings; Street railroads—Crossings

Curves and turnouts

Clearance requirements on curved track. J. Field. Ry R 75:233-5 Ag 16 '24
Derailments of locomotives on curves. R. C. Beaver and M. B. Richardson. diags Ry Mech Eng 98:721-5; 99:16-20 D '24-Ja '25; Discussion. 99:138-9 Mr '25
Device for indicating superelevation of rail on railway curves. diag plan Eng N 94:991 Je 11 '25
Fourth progress report of the special committee to report on stresses in railroad track. diags Am Soc C E Pro 51:469-635 Ap '25
Guard rails on sharp curves. J. J. Burns. il diags Ry R 75:327-9 Ag 30 '24; Same. Eng & Contr (Ry) 62:1349-51 D 17 '24
Relative wear on guarded and unguarded curves. J. F. Burns. diags Ry R 76:779-80 Ap 25 '25
Some notes on lining curves. C: Weiss. Ry R 73:894-6 D 22 '23

Damages from floods, etc.

C.B. & Q. recovers from severe floods. il maps Ry Age 75:968-70 N 24 '23
Disastrous tornado damages railways in Middle West. il Ry Age 78:828-30 Mr 28 '25
Georgia floods—worst in 84 years. map Ry Age 78:361-2 F 7 '25
Reconstruction after washout, B. & O.R.R. Ry R 73:890-1 D 22 '23

Development work

Agricultural development work earns revenue on the B. & O. il Ry Age 77:693 O 18 '24
Business methods in agricultural promotion. J: T. Bartlett. Ry Age 76:178-9 Ja 12 '24
Canadian Pacific immigration and development policies. E. W. Beatty. il Ry R 75:739-41 N 8 '24
Canadian Pacific Ry.'s system of farm labor solicitation. Ry R 75:828-9 N 22 '24
Effect of colonization and development on general railway income. V. Kuska. Ry Age 78:1330 My 30 '25
Erie railroad forestry demonstration train. Ry R 75:837 N 22 '24
Industrial sites and trackage. W. R. Armstrong. map Eng & Contr (G C) 64:651-4 S 16 '25
Neosho plan—a builder of railroad business. N. C. Tompkins. il Ry Age 75:1011-12 D 1 '23
New York Central operates soil fertility car. il Ry Age 78:1294-5 My 23 '25
Where railroad management is failing. J. M. Campbell. Forbes 16:176+ My 15 '25

See also American railway development association

Dictionaries

Traffic glossary. R. E. Riley. 142p La Salle extension univ., Chicago '24

Earthwork

Checking slides and washouts on railways in India. diags Eng N 94:268-9 F 12 '25
New 17-mile cut-off eliminates pusher service. il map Ry Age 77:442-6 S 13 '24
Railway fills with double slopes. Eng N 93: 188 Jl 31 '24
Slips and washouts on the hill section of the Assam-Bengal railway. T: R: Nolan. Engineering 117:141 F 1 '24
Slope and width of cuts. Eng & Contr (Ry) 61:1100-1 My 21 '24
Tamping, dragging and rolling consolidates new fill. G: G. Bryson. il plan Ry Age 78:557-60 Mr 7 '25; Same. Eng & Contr (G C) 63:823-7 Ap 17 '25

See also Culverts; Earthwork; Railroads—Grades; Trenching machinery

Electric equipment

Application of alternating current supply with battery reserve to signal system. H. G. Morgan. Ry R 74:736-8 Ap 19 '24
Deutsche verkehrsausstellung zu München Juni-Oktober 1925. F. Moench. il Elektrotech Zeit 46:1504-8 O 1 '25
Die eisenbahntechnische ausstellung Seddin. il diags Elektrotech Zeit 45:1301-7, 1377-84 N 27, D 11 '24
Leistungsunterbrecher für strassenbahnen und überlandbahnen. H. Balke. il diags Elektrotech Zeit (special no.) 46:20-2 Mr 1 '25
New interlocking plant at busy terminal; alternating current controlled electro-pneumatic plant at Camden, N. J. il plan Ry R 75:861-6 N 29 '24

See also Car lighting; Railroads—Signals; Railroads—Telegraph

RAILROADS—*Continued*

Electrification

A.E.R.A. report on heavy electric traction. Ry Age 79:719-21 O 17 '25; Elec Ry J 66:622-3 O 10 '25

A.I.E.E. holds transportation meeting. Ry Age 76:384-6 F 9 '24; Elec W 83:322-3 F 16 '24

A. R. A. report on electric rolling stock. Ry Age 78:1560-2 Je 20 '25; Ry Mech Eng 99: 423-6 Jl '25; Ry R 77:126-30 Jl 25 '25

Aspects of railway electrification. E. Marshall. W Soc E J 28:485-8 N '23; Same. Eng & Contr (Ry) 60:1288-90 D 19 '23; Same cond. Ry R 73:424 S 22 '23; Abstract. Ry Age 75:470 S 15 '23; Discussion. W Soc E J 28:488-90 N '23

Automatic substations for supplying 1500 volts direct current to suburban railways. C. A. Butcher. il diag Am Inst E E J 43:622-6 Jl '24; Discussion. 44:263-70 Mr '25

Considérations sur l'électrification des chemins de fer; production du courant sur la locomotive. Génie Civil 84:472-5 My 17 '24

Contact system for Virginian electrification. C. L. Hancock. il Ry Age 77:597-8 O 4 '24; Same. Ry R 75:873-5 N 29 '24

Does railway electrification pay? Engineer 140:36 Jl 10 '25

Economic advantages of railway electrification; abstracts on report of operation on the Chicago Milwaukee & St Paul Ry. il charts map Ry R 76:378-87 F 28 '25; Ry Age 78:514-18 F 28 '25; Eng N 94:411 Mr 5 '25; J Elec 54:207-9 Mr 15 '25; Power Pl Eng 29:364 Mr 15 '25; Discussion. Ry Age 78:541-2 Mr 7 '25

Die eisenbahntechnische tagung in Berlin. il diags Elektrotech Zeit 45:1171-86 O 30 '24

Electric traction for steam railroads. E. B. Katte. Sibley J 38:176-7 O '24

Electrical equipment causes big saving. Elec Ry J 65:338-41 F 28 '25

Electrification—a factor in the development of the railroad industry. A. J. Manson. Aera 13:1308-14 Mr '25

Electrification considered by N.E.L.A. Elec Ry J 65:1017-18 Je 27 '25; J Elec 55:8-9 Jl 1 '25

Electrification economies on the Chicago, Milwaukee & St Paul railway. W. D. Bearce. il map Gen Elec R 28:212, 218-28 Ap '25

Electrification of main line railways. Engineering 117:51-2 Ja 11 '24

Electrification of railroads. G. Swope. Gen Elec R 28:284-5 My '25; Same. Aera 13: 1854-7 Je '25; Same. Pub Serv Management 38:179-80 Je '25; Same. Ry R 77:837-9 D 5 '25; Abstract. Bradstreet's 53:450-1 Jl 11 '25

Electrification of transportation. P. S. Clapp. N E L A Bul 12:505-9 Ag '25

Electrification problem. J. E. Crawford. Am Inst E E J 43:653-5; Discussion. 655-9 Jl '24

Electrification progress and power supply; abstracts. Elec R (Lond) 94:555-6 Ap 4 '24; Ry Age 77:333-6 Ag 23 '24

Electrifying the trunk lines. W. S. Murray. il Elec Ry J 66:517-19 S 26 '25

Die elektrotechnischen grundlagen eines neuen phasenumformersystems zur elektrisierung von hauptbahnen. L. von Verebély. il diags Elektrotech Zeit 46:37-43 Ja 8 '25

I. C. electrification uses catenary system. il diag Elec Ry J 66:357-60 S 5 '25

Interconnection, super-power and electrification. S. Q. Hayes. maps Elec J 21:247-54 My '24

Is a standard for electrification desirable? C. Townley. Elec Ry J 66:206-7 Ag 8 '25

Large future for railway electrification. E. M. Herr. il Ry R 77:349-51 S 5 '25; Same. Eng & Contr (G C) 64:659-62 S 16 '25

Motor car equipment for the Illinois Central electrification. Ry R 75:875 N 29 '24

Motor cars for I.C. suburban service. il Ry R 77:558 O 10 '25

New system of main line electrification. L. de Verebely. il diags Engineer 138:630-3 D 5 '24

Operating problems of the railroads. L. G. Coleman. Am Inst E E J 43:651-3; Discussion. 655-9 Jl '24

Operating problems under electric motive power. maps Ry R 74:1192-7 Je 21 '24; Excerpts. Elec Ry J 64:56-7 Jl 12 '24

Our railroads. A. H. Armstrong. il Gen Elec R 27:289-92 My '24; Same. Eng & Contr (Ry) 61:1130-3 My 21 '24

Possibilities of railway electrification. F. E. Wynne. Elec Ry J 63:785-6 My 17 '24

Railroad company's view of the electrification problem. R. J. Cary. Am Inst E E J 44: 669-72 Je '25

Railroad electrification. H. Hoover and others. Am Inst E E J 44:663-72 Je '25

Railroad electrification and the electric locomotive. A. J. Manson. 2d ed. 332p Simmons-Boardman pub. co., New York '25

Railway electrification. Eng & Contr (G C) 64:148 Jl 15 '25

Railway electrification. Engineer 137:71-2 Ja 18 '24; Same. Eng & Contr (Ry) 61:387-9 F 20 '24; Discussion. Engineer 137:103, 342-3, 487 Ja 25, Mr 28, My 2 '24

Railway electrification. H. F. Trewman. 244p [bibliog. p. 241-2] Pitman '24

Real reason for the lag of steam railway electrification. D. C. Jackson. Eng & Contr (Ry) 62:423-4 Ag 20 '24

Report of A.R.A. committee on electric rolling stock. maps Ry Age 76:1560-8 Je 14 '24

Servicing the railroads. W. S. Murray. N E L A Bul 12:510-11 Ag '25

Some phases of the Illinois Central railroad company's lake front improvements and electrification. D. J. Brumley. il diags W Soc E J 30:329-42 Ag '25; Same abr. Eng & Contr (G C) 63:439-46 Ag 19 '25; Abstract. Ry Age 78:736-40 Mr 14 '25; Discussion. W Soc E J 30:342-5 Ag '25

Standardization in electrification urged at A.I.E.E. meeting. Elec Ry J 65:816-17 My 23 '25; Elec W 85:1094-5 My 23 '25

Die systemfrage bei elektrisierung von hauptbahnen; abstract. Elektrotech Zeit 46:932-3 Je 18 '25

See also Electric locomotives; Electric railroads; Third rail

Argentina

Electrification in Buenos Ayres. il maps Eng & Contr (Ry) 61:139-45 Ja 16 '24

Austria

Electrification of the Austrian federal railways. A. Hruschka. Ry Age 77:334 Ag 23 '24

Electrification of the Austrian federal railways. J. A. G. Pennington. maps Ry R 75:470-5, 508-11 S 27-O 4 '24

Elektrische zugförderung auf den österreichischen bundesbahnen. P. Dittes. il Zeit Ver Deutsch Ing 68:233-40 Mr 8 '24

Elektrische zugförderung auf den österreichischen bundesbahnen. H. Luithlen. il map Elektrotech Zeit (special no.) 45: 29-30, 1368-71, 1398-1405 Ag 28, D 11-18 '24

Main line railway electrification. P. Dawson. diags map Engineer 140:182-5, 208-10 Ag 21-28 '25

Die neuen elektrisierungsbauten der österreichischen bundesbahnen. H. Luithlen. Elektrotech Zeit 46:1411-12 S 10 '25

Brazil

Electric operation of Paulista railway in Brazil. G. Bellows. il Ry Age 76:789-91 Mr 22 '24; Same. Gen Elec R 27:312-17 My '24

Canada

New catenary construction on the Canadian National. E. B. Walker. il Ry Age 78:1099-1101 My 2 '25; Same abr. Eng & Contr (G C) 63:1105-8 My 20 '25

Chile

Electrification of Chilean railways. A. C. Blackall. Electrician 92:669 My 30 '24

RAILROADS—Electrification—Chile—*Cont.*
Electrification of the Chilean State railway. D: C. Hershberger. il diags maps Ry R 76: 722-8 Ap 18 '25; Excerpts. Aera 13:1670-7 My '25
Electrifying Chile's railways. L. Jacquet. il Sci Am 130:34 Ja '24
Power distribution system of Chilean State railways electrification. D. C. Hershberger. il diags map plan Elec Ry J 63:881-8 Je 7 '24
Power supply for the Chilean State railway electrification. il map Engineering 119:512, 517 Ap 24 '25

Czechoslovakia

Hauptbahnelektrisierung in der Tschechoslowakischen republik. Elektrotech Zeit 46:655-6 Ap 30 '25

Dutch East Indies

Electrification of railways in the Dutch East Indies. G. De Gelder. Ry Age 77:335-6 Ag 23 '24

Europe

Railway electrification. P. Dittes. Electrician 95:472 O 23 '25
Railway electrification in foreign countries. S. P. Smith. Inst E E J 62:317-22 Ap '24; Abstracts. Elec R (Lond) 94:77-8 Ja 11 '24; Electrician 92:36-7 Ja 11 '24; Discussion. Inst E E J 62:322-4; 63:384-5 Ap '24, Ap '25; Elec R (Lond) 94:78-9 Ja 11 '24

France

L'electrification des lignes de banlieue des Chemins de fer de l'État. P. Calfas. il diags plan map Génie Civil 85:245-51 S 20 '24
Electrification of Paris suburban railways. map plan Elec Ry J 65:376-7 Mr 7 '25
Electrification of the French Midi railway. A. Bachellery. Inst E E J 62:213-18 Mr '24; Same cond. Elec R (Lond) 93:832-4 N 30 '23; Same cond. Engineer 136:588, 595-6 N 30 '23; Abstracts. Engineering 116:688-9 N 30 '23; Electrician 91:609-10 N 30 '23; Discussion. Inst E E J 62:218-31 Mr '24; Elec R (Lond) 93:117-18 Ja 18 '24; Electrician 92:71 Ja 18 '24
L'état actuel de travaux d'électrification des chemins de fer du Midi. Génie Civil 84:599-600 Je 21 '24
Main line railway electrification. P. Dawson and S. P. Smith. diags maps Engineer 140: 341-4, 423-6 O 2, 23 '25
Le programme d'électrification partielle du réseau des chemins de fer P.-L.-M. diags maps Génie Civil 83:589-95 D 15 '23
Quecksilberdampf-grossgleichrichter in unterwerken der französischen hauptbahnen. B. Schaefer. il diags Elektrotech Zeit 46:833-6 Je 4 '25
Third-rail electrification for P.L.M. Ry. in France. M. Japiot. diags Eng N 92:208 Ja 31 '24
La traction électrique des trains à plusieurs unités motrices, avec intercommunication en marche, sans circuit de contrôle. A. Levergnier. diags Génie Civil 86:558-60 Je 6 '25

Germany

Berlin suburban electrification put in operation. Gebauer. diags map Elec Ry J 65:503-4 Mr 28 '25
L'électrification partielle de l'ancien métropolitain et des lignes de banlieue, à Berlin. E. Homolatch. diags map Génie Civil 85:180 Ag 23 '24
Elektrische zugförderung auf den schlesischen gebirgsbahnen. Elektrotech Zeit 46:1197-8 Ag 6 '25
Erfahrungen im elektrischen betrieb der rhätischen bahn. Bertschmann. il Elektrotech Zeit 46:14-16 Ja 1 '25
Main line electrification of the State railways in Germany. W. Wechmann. Ry Age 77:335 Ag 23 '24
Main line railway electrification. P. Dawson and S. P. Smith. diags maps Engineer 139: 620-4, 650-1 Je 5-12 '25

Great Britain

Electrification of British main line railways; abstracts. E. O'Brien. Engineer 138:356-7 S 26 '24; Engineering 118:456 S 26 '24
Electrification of the South-eastern and Chatham railway. il diags Elec R (Lond) 93:671-2 N 2 '23
Electrification of the Southern railway. map Elec R (Lond) 94:7 Ja 4 '24
Future of main-line electrification on British railways. H. E. O'Brien. diags Inst E E J 62:729-55 S '24; Same cond. Engineering 117:448-50, 479-81 Ap 4-11 '24; Abstracts. Elec R (Lond) 94:555-6 Ap 4 '24; Electrician 92:418-19 Ap 4 '24; Discussion. Inst E E J 62:755-81 S '24; Engineer 137: 383 Ap 11 '24; Elec R (Lond) 94:556 Ap 4 '24; Electrician 92:423; 93:320 Ap 4, S 19 '24
Latest metropolitan extension; conversion of Harrow-Rickmansworth section to electric traction. Electrician 94:35 Ja 9 '25
Southern railway electrification. il Elec R (Lond) 96:566, 899-901; 97:299-303, 330-1 Ap 10, Je 5, Ag 21-28 '25; Electrician 95:64, 86-8+, 239+ Jl 17-24, Ag 28 '25; Elec Ry J 66: 316 Ag 29 '25
Southern railway electrifies London suburban lines. maps Ry R 77:433+ S 19 '25

Guatemala

Elektrische hauptbahn in Guatemala. diags map Elektrotech Zeit 46:775-6 My 21 '25

Hungary

Der elektrische probebetrieb der Königl. Ungarischen Staatsbahnen. L. von Verebély. il diag Zeit Ver Deutsch Ing 69:1277-8 O 3 '25

India

Bombay suburban electrification. il Ry Age 78:836-8 Mr 28 '25
L'électrification des chemins de fer desservant la région de Bombay (Indes anglaises). Génie Civil 87:46-7 Jl 11 '25
First railway electrification in India; the Great Indian Peninsula railway's Bombay suburban system. il map Elec R (Lond) 96:260-3 F 13 '25; Electrician 94:204-5 F 20 '25

Italy

Electric traction in Italy. F. Tajani. Ry Age 77:335 Ag 23 '24
L'électrification de la ligne Rome-Tivoli, en courant triphasé à 10 000 volts et à la fréquence 45. diags Génie Civil 83:520-1 N 24 '23

Japan

Electrification of Japanese railways making good progress. Ry R 75:148 Jl 26 '24; Eng & Contr (Ry) 62:859 O 15 '24
1500-volt direct-current electric railway installation of the Kobe-Himeji railway co., Kobe, Japan. M. Takagi. il map Gen Elec R 27:536-8 Ag '24
Japanese electrifying state railways. H. C. Hickock. diags map Elec Ry J 66:397-400 S 12 '25

Java

Control equipment for motor and trail cars on the Java State Rys., Dutch East Indies. F. Guillot. il diags Gen Elec R 28:95-102 F '25

Mexico

Electrification of the Mexican railway. il diags Elec R (Lond) 93:926-9 D 21 '23
Mexican railway begins electrical operation. W. D. Bearce. il Ry Age 78:1385-6 Je 6 '25; Same. Ry R 77:81-2 Jl 18 '25; Same. Dun's Int R 46:56-7 N '25

New Zealand

Railway electrification in New Zealand. il Elec R (Lond) 96:419-22 Mr 13 '25

Norway

Electrification of railways in Norway. H. J. Schreiner. il Ry Age 77:333-4 Ag 23 '24

RAILROADS—Electrification—*Continued*

Russia

Electrification schemes in Russia. B. L. Metcalf and O. Morduch. maps Inst E E J 62:932-5 N '24

Scandinavia

Main line railway electrification. P. Dawson and S. P. Smith. map Engineer 139:98-100, 156-9 Ja 23, F 6 '25

South Africa

Automatic substation equipment for South African railways. W. D. Bearce. il map Gen Elec R 28:713-19 O '25

Electric locomotives for the South African railways. il Ry Age 78:1025-6 Ap 25 '25

Electrification of the Natal railway. Engineer 138:678 D 12 '24

South America

Progress of electrification on South American railways. R. Brennan. il Dun's Int R 45:41-4+ My '25

Spain

Eine bemerkenswerte hauptbahnelektrisierung in Spanien. diags Elektrotech Zeit 46:1088-90 Jl 16 '25

Electrification of railways in Spain increasing rapidly. il Dun's Int R 45:56-8 Jl '25

Electrification of the Spanish Northern railway. il Elec R (Lond) 96:194 Ja 30 '25

Ferrocarrils de Cataluna y Sarria—a Spanish electrification. H. C. Hutchinson. il map Gen Elec R 28:520-5 Jl '25

3000-volt electrification of the Spanish Northern railway. A. I. Totten and H. C. Hutchinson. il diag map Gen Elec R 27:658-64 O '24; Same. Ry R 75:434-9 S 20 '24; Same. Ry Age 77:509-12 S 20 '24

Sweden

Power problems of the Swedish railways. I. öfverholm. Ry Age 77:334 Ag 23 '24

State railroad electrification in Sweden. Elec Ry J 66:324 Ag 29 '25

Switzerland

Die Bernischen Dekretsbahnen. W. Lattmann. il diag map. Elektrotech Zeit 46:1101-4 Jl 23 '25

Electric traction through St Gothard. G. L. Meyfarth. Electrician 92:452 Ap 11 '24

L'électrification des Chemins de fer suisses. C. A. Giudici and G. Wunenburger. il diags map plan Génie Civil 86:473-9, 512-15, pl 5 My 16-23 '25

Electrification of Swiss federal railways progressing rapidly. il plan Elec Ry J 65:727-30 My 9 '25

L'état actuel de l'électrification des chemins de fer fédéraux suisses. il map plans Génie Civil 84:609-14 Je 28 '24

Main line railway electrification. P. Dawson and S. P. Smith. diags (supp) map Engineer 137:633-6, 653-4, 684-5 Je 6-20 '24

Railway electrification progress in Switzerland. A. Rohn. il map Eng N 93:18-19 Jl 3 '24

Swiss railway electrification. E. A. Eborall. Engineer 139:485 My 1 '25

Die wirtschaftlichkeit des elektrischen betriebes der schweizerischen bundesbahnen. Elektrotech Zeit 46:628-9 Ap 23 '25

United States

Baltimore & Ohio begins electric operation on Staten Island. W. D. Bearce. il plan Ry R 77:315-16 Ag 29 '25

Comparative cost of steam and electric operation. A. H. Armstrong. il Gen Elec R 28:212, 229-36 Ap '25

Economies expected from electrification of Virginian railway. il diag Elec Ry J 65:843-5 My 30 '25

Electric rapid transit inaugurated on Staten Island. il map Elec Ry J 66:3-6 Jl 4 '25

Electrification of the American railways. H. Quick. Ann Am Acad 118:78-90 Mr '25

Electrification of the Ft. Washington branch, P.R.R. il Ry R 74:843-5 My 10 '24

Electrification of the Virginian Ry. Eng N 92: 1008 Je 12 '24

Electrification progress on I. C. Ry Age 78: 224 Ja 17 '25

Electrify and elevate New York west side freight line. diag Eng N 91:947 D 6 '23

Der elektrische betrieb auf der Norfolk & Western eisenbahn. il diags Elektrotech Zeit 45:464-6 My 8 '24

First Virginian locomotive ready. E. I. Staples. il Aera 13:1867-74 Je '25; Same abr. Ry R 76:935-7 My 23 '25

Great Northern extends electrification. Ry R 77:390-1 S 12 '25

Great Northern railway Cascade electrification. P. A. McGee. diags maps Elec J 22:489-91 O '25

Heavy traction has quiet year. Elec Ry J 65:14 Ja 3 '25

Illinois Central-Edison company contract. Elec W 86:382 Ag 22 '25

Illinois Central railroad contract. Elec W 85:98-100 Ja 10 '25; Elec Ry J 65:63-5 Ja 10 '25

Making nature pull the trains; electrification of the 648 miles of the Chicago, Milwaukee and St Paul railway, through five mountain ranges. L. K. Sillcox. il Am Ind 25:27-30 My '25

Motors haul Maine potatoes. R. E. Hodgins. il Aera 13:2017-19 Jl '25

New Haven electrifies Danbury branch. H. F. Brown. il diag map Elec Ry J 66:309-15 Ag 29 '25

New Haven inaugurates 100 per cent electric operation. H. F. Brown. il Elec Ry J 63:877-9 Je 7 '24

Philadelphia electrification extended. il Elec Ry J 63:735-6 My 10 '24

La production et la distribution du courant pour l'électrification du Staten Island railway (New York, E.-U.). L. Malo. il diags Génie Civil 87:77-82 Jl 25 '25

Progress in West Virginia railway electrification. S. Q. Hayes. Elec Ry J 62:869-70 N 17 '23; Excerpt. Eng & Contr (Ry) 61:123 Ja 16 '24

Progress of Long Island R.R. electrification. Ry R 76:605-6 Mr 28 '25

Railroad electrification progress. Elec W 85: 223-4 Ja 24 '25

Service started on Babylon electrification of Long Island railroad. il Elec Ry J 65:803-6 My 23 '25

Staten Island electrification. il map Ry Age 79:31-5 Jl 4 '25

Staten Island line to electrify. diag plan Elec Ry J 63:776-7 My 17 '24; Ry Age 76: 1274 My 24 '24

Triple electric locomotive for the Virginian railway. il Engineer 139:606-7 My 29 '25

Virginian prepares to do it with electricity. W. H. Easton. Forbes 14:29-30 Ap 12 '24

Virginian railway distribution system. C. L. Hancock. il Ry R 75:873-5 N 29 '24

Virginian railway electrification. H. K. Smith. il map Ry Age 76:1353-8 Je 7 '24; Same. Elec J 21:275-9 Je '24; Same. Ry R 76:335-41 F 21 '25

Virginian railway electrification opened; radio communication between locomotives. il Elec Ry J 66:539-41 O 3 '25

Virginian starts electric operation. il Ry Age 79:553-4 S 26 '25

See also Chicago, Milwaukee & St Paul railway

Employees

Alaska railroad. Monthly Labor R 20:1068-70 My '25

All groups concerned must co-operate. E. T. Whiter. Ry Age 75:951-4 N 24 '23; Excerpt. Ry Mech Eng 97:798-9 D '23

A.R.E.A. rules for guidance of maintenance of way employes. Eng & Contr (Ry) 61:1339-47 Je 18 '24

Apprentice makes constructive suggestions. H. L. Price. Ry Mech Eng 98:86-7 F '24

RAILROADS—Employees—*Continued*
B. & O. extends scope of employee co-operative plan. E. W. Scheer. Ry Age 78:453-4 F 21 '25
B. & O. plan to be applied on the Canadian National. Ry Age 77:994-5 N 29 '24
Best methods for bringing about co-operation. J. C. Clark. Ry Age 77:1175-7 D 27 '24
Better management through cooperation in safety. H: Bruere. Nat Safety N 10:23-4 D '24
Bonus system for efficient stockmen. J. E. Mahaney. Ry Age 76:1654-5; Discussion. 1655 Je 17 '24
Cadet system in railroad service. W: J. Cunningham. Harvard Business R 3:404-13 Jl '25
Can railroads use the universities? W. M. Daniels. Ry Age 78:1083-5 My 2 '25; Discussion. 78:1195-6 My 16 '25
C. P. R. section houses have pleasing appearance. G: E. Boyd. plans Ry R 77:199-200 Ag 8 '25
Chairman Hooper proposes amendment to the labor provisions of the Transportation act. Ry Age 76:1026 Ap 26 '24
C. & O. younger men's conference. Ry Age 78:937-9 Ap 11 '25
College man in railroad service. C: Weiss. Ry R 75:122-4, 159-60, 200-1, 244-6, 588-9 Jl 26-Ag 16, O 18 '24
College men and railway service. W. M. Daniels. Ry Age 78:375-6 F 7 '25
College men on the railroads. Ry Age 78: 867-8 Ap 4 '25
Common labor in railway construction and maintenance. W: Beahan. Eng & Contr (Ry) 60:1307-9 D 19 '23
Convention of apprentices, Atchison, Topeka & Santa Fe Ry. Ry R 74:685-6 Ap 12 '24
Co-operation—a constructive force; Lehigh Valley maintains intimate contacts between the officers and employees. R. V. Wright. Ry Age 78:1210-18 My 16 '25
Co-operation advantageous to roads and men. R. Budd. Ry Age 75:1053-5 D 8 '23
Co-operation between labor unions and railways. Ry Age 75:993-4, 1093-4, 1096 D 1, 15 '23
Cooperation in industry. S: Rea. Min Cong J 10:421-3 S '24
Co-operation is a great impulse of the heart. W. W. Adair. Ry Age 77:491-3 S 20 '24
Co-operation—not an idle dream; practical results on the Central of Georgia railway. R. V. Wright. il Ry Age 78:259-65 Ja 24 '25
Co-operation—organized railroad labor's contribution. W: H. Johnston. Ry Age 75:954-7 N 24 '23; Same abr. Ry Mech Eng 97:799-801 D '23; Discussion. Ry Age 76:180 Ja 12 '24
Danger of too much talk about co-operation. H. Robbins. Ry Age 77:235-6 Ag 9 '24
Decisions of Railroad labor board. Published in Monthly labor review
Economics of railway labor; report of A.R. E.A. committee. Elec Ry J 63:509-10 Mr 29 '24
Eight-hour day; report to the International railway congress. Engineering 120:7 Jl 3 '25; Engineer 140:15 Jl 3 '25; Ry Age 79:83-4 Jl 11 '25
Eliminating the railroad walking delegate. F. Snow. Comm & Fin 13:1887-9 O 1 '24
Emphasizes budgeting as first important step in co-operative program. H: Bruère. Ry Age 76:1805-6 Je 28 '24; Discussion. 77:95-6, 226-7 Jl 19, Ag 9 '24
Employee representation on the railroads. H: C. Metcalf. Ry Age 77:1062-5 D 13 '24
Employees and management, partners. Ry Age 78:1260-2 My 23 '25; Discussion. J. C. Harvard. 79:6 Jl 4 '25
Employees' part in public relations work. R. H. Newcomb. Ry Age 77:737-8 O 25 '24
Employment and earnings of railroad employees, October, 1922 and September and October, 1923. Monthly Labor R 18:122-3 Ja '24 [continued monthly]
Excessive irregularity of employment. Ry Age 75:1142-3 D 22 '23
Fluctuations in the number of railway clerks. Ry Age 76:1519-22 Je 14 '24
Ford railroad, the D. T. & I., has unique operating practices. il Ry Age 78:501-6 F 28 '25; Discussion. B. Snell. 78:779-80 Mr 21 '25
Foreman and his responsibility. Ry Mech Eng 99:360-2, 496-8, 543-4, 610-11, 681-2 Je, Ag-N '25; Discussion. 99:492-6, 554-6, 608-9, 679-81, 746-7 Ag-D '25
Group insurance plan of the Delaware and Hudson railroad. L. F. Loree. Econ W n s 29:635-6 My 2 '25
Group life insurance on twenty-seven railroads; list of roads. Ry Age 76:881-3 Ap 5 '24
Harking back to the days of Hendrik Hudson; the Craft guild system of the Delaware & Hudson co. Am Mach 62:276 F 12 '25
Hearing before Senate Inter-state commerce committee on Howell bill to abolish United States Railroad labor board. Comm & Fin Chr 118:1622-4 Ap 5 '24; Excerpt. (H. Holden). Ry R 74:654-5 Ap 5 '24
Hearing on railway labor bill. Ry Age 76:794-6, 931-6 Mr 22, Ap 12 '24
How a personnel department aids co-operation. E: M. Harris. Ry Age 77:323-5 Ag 23 '24
How to start personnel work on a railroad. J. C. Clark. il plans Ry Age 76:745-9 Mr 15 '24
How we brought management and worker together. W. W. Atterbury. il System 45:42-5+ Ja '24
Howell-Barkley bill. Ry Age 77:919-20 N 22 '24
Human relations in railroading. S: O. Dunn. Ry Age 78:427-8 F 14 '25
Human relations problem. W. Street. Ry Age 79:426 S 5 '25
Human side of the foreman's job. J. Gullage; C: H. Nutter; C. L. Mitchell. Ry Age 76: 515-16 Mr 1 '24
Importance of better section foremen and means for getting them. Eng & Contr (Ry) 62:115-16 Jl 16 '24
Importance of personal records. J. C. Clark. il Ry Age 75:1007-8 D 1 '23
Improvement of efficiency on terminals. C: Burlingame. Ry R 75:7-12 Jl 5 '24
Improving the morale in stores organization. W. J. McKaig. Ry Age 79:79-80 Jl 11 '25
Is winter M. of W. force reduction necessary? L. E. Keller. Ry Age 76:732-3 Mr 15 '24; Same. Monthly Labor R 19:156-8 Jl '24
Labor board acts in Virginian enginemen's strike. Ry Age 75:912 N 17 '23
Labour on the railways—shopmen and drivers. Economist 98:1245-6 Je 21 '24
Labor policy of the Baltimore & Ohio. D. Willard. Ry Age 77:839-41 N 8 '24; Same. Ry R 75:761-3 N 8 '24; Discussion. Ry Age 77:826 N 8 '24
Labor problem of the German state railroads. R. R. Kuczynski. Monthly Labor R 19:47-54 Jl '24
Lubricating a railroad organization. R. E. Woodruff. Ry Age 78:1337-40 My 30 '25
Making foremen in the car department. C. J. Nelson. Ry Mech Eng 98:223-4 Ap '24
Man in railroading. W. G. Lee. Ry R 76:143-5, 267-9, 342-4, 562-4, 644-6, 811-13, 927-8 Ja 17, F 7, 21, Mr 21, Ap 4, My 2, 23 '25
Men, the chief factor in efficient transportation. R. N. Begien. Ry R 76:1209-11 Je 27 '25
Missouri-Kansas-Texas R.R. employees' investment plan. Ry R 75:48-9 Jl 12 '24
Modern personnel administration and its application to the railways. H: C. Metcalf. il chart Ry Age 77:1016-20 D 6 '24
National industrial conference board report shows improved railroad performance. Ry Age 77:299-302 Ag 16 '24
New co-operative developments on the B. & O. Ry Age 76:543-5 Mr 8 '24

RAILROADS—Employees—*Continued*
Northern Pacific takes $50,000,000 policy for group insurance. Ry R 75:213 Ag 9 '24
Number and compensation of railroad employes in the United States. Econ W n s 29:911 Je 27 '25
Periodical physical examinations in the N.Y.C. Ry Age 79:433-4 S 5 '25
Personal touch in interpreting agreements. C: Weiss. Ry R 74:813-15 My 3 '24
Personnel management on the railroads; a study by the Policyholders' service bureau, Metropolitan life insurance company. 227p Simmons-Boardman pub. co., New York '25
Practical method of securing co-operation. Ry Age 77:453-6 S 13 '24
Practical value of co-operation demonstrated. E. Edwards. Ry Age 77:541-2 S 27 '24
Program of peace which is a declaration of war. Ry Age 78:497-9 F 28 '25
Railroad adjustment board: New Haven system. Monthly Labor R 18:348-50 F '24
Railroad employees' interest in railroad earnings. C. B. Fletcher. Ry R 76:280-1 F 7 '25
Railroad health and recreation programs. B. F. Bryant and others. Ry Age 77:15-17 Jl 5 '24
Railroad labor accomplishment, 1922 and 1923. Monthly Labor R 20:550-3 Mr '25
Railroad ownership and control by employees. J. P. Muller. Ry Age 77:681-2 O 18 '24
Railroad shop crafts promote co-operation. Ry Age 76:407-8 F 16 '24
Railroads need college men. R. O. Johnson. Ry Age 79:427 S 5 '25
Railroads oppose the labor bill. Ry Age 76: 889-94 Ap 5 '24
Railway employed boys' club. W. King. Ry Age 77:941-2 N 22 '24
Railway executives plan to stabilize employment. Ry Age 77:539-40 S 27 '24; Ry R 75:485-6 S 27 '24
Railways' fundamental need—co-operation. C: A. Eaton. Ry Age 75:1161-4 D 22 '23; Same cond. Ry R 73:909-12 D 22 '23
Raising the standard of maintenance forces. F. W. Green. Ry Age 79:575-6 S 26 '25; Excerpt. Ry R 77:645 O 24 '25
Report of the special A.R.E.A. committee on co-operative relations between the railroad and the universities. Ry R 76:530-1 Mr 14 '25
Right of railway employees to hold public office. Monthly Labor R 18:1053-4 My '24
Santa Fe apprentices' second convention, San Bernardino, California, February 19-21. Ry Age 78:798-9 Mr 21 '25
Second prize paper in co-operation contest. W. C. Barrett. Ry Age 77:51-2 Jl 12 '24
Significant labor developments. Ry Age 77: 1151-2 D 27 '24
Some thoughts on selecting men for employment. W. G. Morgan. Ry R 75:84-6 Jl 19 '24
Some views on the railroad situation. E. Lee. Eng Soc W Pa 40:163-9 My '24
Stabilization of forces on the Union Pacific system. Ry R 75:460-1 S 27 '24
Stabilizing employment on railroads. L. F. Loree. Ry Age 79:435-8 S 5 '25; Excerpts. Comm & Fin Chr 121:1184-5 S 5 '25
Stabilizing railway employment; editorial. Ry Age 77:530-1 S 27 '24
Suggestions as to special apprenticeship. R. Eckart. Ry Mech Eng 98:15 Ja '24
Suggestions for developing co-operation. A. B. Tunis. Ry Age 77:633-4 O 11 '24
Supervision of bridge and building forces. G: W. Rear. il Ry R 73:700-1 N 10 '23; Same. Eng & Contr (Ry) 60:1076-7 N 21 '23
Two vitally important developments; abstract. R. V. Wright. Ry Age 79:513-15 S 19 '25
Unions essential in any co-operation program. G: Soule. Ry Age 77:411-12 S 6 '24
Wages, hours and employment of railroad workers. 80p National industrial conference board, New York '24
What car foremen owe their industry. F: Weitzel. Ry R 73:864-5 D 15 '23
What does it cost to build an organization? J. C. Clark. Ry Age 76:793-4 Mr 22 '24
What railroad managements should do to secure co-operation from their employees. R: C. Metcalf. Ry Age 77:982-4 N 29 '24

See also Electric railroads—Employees; Locomotive engineers; Locomotive firemen; Railroad labor board; Railroads—Bridge foremen; Railroads—Car departments; Railroads—Chief clerks; Railroads—Clerks; Railroads—Conductors; Railroads—Contract work; Railroads—Flagmen; Railroads—Management; Railroads—Officials; Railroads—Roadmasters; Railroads—Telegraphers; Railroads—Wages; Railroads—Yardmasters; *also* Young mens' Christian association—Railroad department

Labor board rules

Labor board establishes telegrapher's working rules. Ry Age 76:1136 My 10 '24

Training

Annual convention of apprentice instructors, A.T. & S. F. Ry. Ry R 74:1254-5 Je 28 '24; Ry Age 76:1824-5 Je 28 '24
Annual convention, 4th, of apprentice instructors, A.T. & S.F. Ry., San Bernardino, Calif., April 23-24. Ry Mech Eng 99:362-3 Je '25; Ry R 76:1019 Je 6 '25
Apprenticeship methods on the Santa Fe. il Ry Mech Eng 98:355-9, 415-18, 467-72, 527-31 Je-S '24
Broader training needed for college graduates. E. B. Fields. Ry Mech Eng 97:797-8 D '23
Educating car inspectors on the C. & E.I. R. E. May. Ry Mech Eng 99:711-12 N '25
Educational problem of the railways. R. V. Wright. Special Lib 16:41-3 F '25
Encouraging apprentices by competitive methods. E. D. Austin. Ry Mech Eng 92:213 Ap '24
How the Milwaukee road is training apprentices. C. G. Juneau. Ry R 76:1013-17 Je 6 '25
Interesting employees in the study of air brakes. J. P. Stewart. Ry Age 76:1153 My 10 '24; Same, Ry R 74:1131-2 Je 14 '24; Excerpts. Ry Mech Eng 98:428-9 Jl '24
Making railroad mechanics for the future. F. W. Thomas. Ry R 77:396-7 S 12 '25
Painter apprenticeship system. J. W. Gibbons. Ry R 77:530 O 3 '25
Place of railroad apprenticeship in a national apprenticeship plan. F. W. Thomas. Mech Eng 47:624-5 Ag '25; Same. Mach 31:989 Ag '25; Discussion. Mech Eng 47:625-6 Ag '25
Practical suggestions as to apprenticeship. W. L. McGowan. Ry Mech Eng 98:11-12 Ja '24
Proper training of shop supervisory forces. W. Baldwin. Ry R 74:1256-8 Je 28 '24; Same. Ry Age 76:1627-30 Je 17 '24
Railway training by railway men for railway men. 92p Railway training institute, Chicago '24
Training apprentices. Ry Age 76:1275-6 My 24 '24; Same. Ry Mech Eng 98:498 Ag '24
Training apprentices; proper relationship between school instructors and shop foremen adds to value of training. C. Y. Thomas. il Ry R 74:847-8 My 10 '24
Training foremen in leadership. il Ry Mech Eng 99:364-9 Je '25
Training of apprentices. J; Purcell. Cassier's Ind Management 11:471-2, 501 N-D '24
Training of section foremen; committee report presented to Roadmasters and maintenance of way association. Eng & Contr (Ry) 60:1291-2 D 19 '23
Traveling engineer an instructor. D. C. Buell. Ry Age 79:611-12 O 3 '25
Vocational training on the Paris-Orleans railway. Int Labour R 11:703-6 My '25
Younger men tell of opportunities at a meeting of the New York railroad club. Ry Age 79:795-801 O 31 '25

RAILROADS—*Continued*

Equipment and supplies

A. R. A. report on specifications and tests for materials. Ry Age 76:1638-9 Je 17 '24
A.R.A. report on specifications and tests for materials. Ry Age 78:1588-9 Je 20 '25; Ry Mech Eng 99:444 Jl '25
Authorized expenditures in 1924 exceed 1923. Ry R 75:867-9 N 29 '24
Capital expenditures for next ten years. Ry Age 76:22-3 Ja 5 '24
Class I roads to spend $750,000,000 in 1925 for equipment and other improvements. Ry R 76:946-7 My 23 '25
Committee urges railroads to conserve forest products. Ry R 76:931-4 My 23 '25; Ry Age 78:1276-7 My 23 '25
Device for indicating superelevation of rail on railway curves. diag plan Eng N 94:991 Je 11 '25
Economy in painting railway equipment. J. W. Gibbons. Ry R 75:348-9 S 6 '24
Equipment for railway bridge and building service. diags Eng & Contr (Ry) 60:1315-17 D 19 '23
How simplified practice will benefit railways. R. M. Hudson. Ry Age 77:155-6 Jl 26 '24
Inspecting and testing materials. J. O. Meyer. Ry Age 79:39-40 Jl 4 '25
Manufacturers make noteworthy progress in 1923. il diag Ry R 74:85-93 Ja 5 '24
Material costs lower in 1924. W. S. Lacher and E. L. Woodward. Ry Age 78:88-94 Ja 3 '25
Railway expenditures will establish new records in 1925. E. T. Howson. il Ry Age 78:27-32 Ja 3 '25
Railway material at British Empire exhibition. il diags Engineering 117:535-41, 595-601, 665-8, 672, pl 40-2; 118:6-11, 160-4, 279-84, 475-9, pl 3-5, 17, 27, 51 Ap 25, My 9, 23, Jl 4, Ag 1, 29, O 3 '24; Engineer 138:490-1 O 31 '24
Railways will make many improvements in 1924. E. T. Howson. Ry Age 76:14-18 Ja 5 '24
Tests for railway material and equipment. H: Knauer. 257p Simmons-Boardman '25
Western railway club discusses supply question. Ry Age 79:747-51 O 24 '25
What has a railway a right to expect from mechanical equipment. E. Stimson. Eng & Contr (Ry) 61:1361-2 Je 18 '24
What railroads have done for standardization. A. G. Follette. Ry R 77:290-1 Ag 22 '25
Zweckmässigste ausrüstung der güterverkehrsmittel der eisenbahn. Simon-Thomas. il Zeit Ver Deutsch Ing 69:1221-4 S 19 '25

See also Air brakes; Brakes; Car couplings; Cars; Freight cars; Office appliances; Railroad supplies industry; Railroad ties; Railroads—Electric equipment; Railroads—Electrification; Railroads—Fuel; Railroads—Ice supply; Railroads—Maintenance and repair; Railroads—Management; Railroads—Purchasing; Railroads—Safety devices and measures; Railroads—Scrap material; Railroads—Shops; Railroads—Signals; Railroads—Stores systems; Railroads—Supply trains; Railroads—Water supply; Rails; Track scales; Turntables

Equipment trust

C.M. & St P. equipment trust authorized. Ry Age 79:535-6 S 19 '25
Equipment obligations. K. Duncan. 358p Appleton '24
Equipment trust agreements of Jan. 15, 1920. Comm & Fin Chr 119:227 sec 2 N 29 '24; 120:240 My 30 '25
Equipment trust plan for locomotive terminals. Ry Age 76:187-8 Ja 12 '24
Equipment trust securities. 242p Evans, Stillman & co., New York '23

Express service

See Express service

Fares

American and foreign passenger fares. Ry R 73:799 D 1 '23
Behind the scenes in the convention industry. A. E. Haase. Ptr Ink 132:89-92 Jl 16 '25
Discontinuance of surcharge recommended. Ry Age 76:1153-8, 1208-9 My 10-17 '24
Effect of Pullman surcharge on typical railroads during 1923. Ry R 76:400 F 28 '25
Effect of reduced rate mileage or scrip tickets. Ry Age 77:609-10 O 4 '24
House committee favors surcharge. Ry Age 78:511-13 F 28 '25
Low rate mileage books not required. Ry Age 78:1343-4 My 30 '25
Need for simplified passenger fare divisions. E. J. Johnson. Ry Age 78:752-4 Mr 14 '25; Same. Ry R 76:868-70 My 9 '25
New Haven authorized to advance commutation fares. Ry Age 79:221-2 Ag 1 '25; Ry R 77:178 Ag 1 '25
Owners' association defends Pullman surcharge. Ry Age 77:682-3 O 18 '24
Pullman rate hearing. Ry Age 77:612-13 O 4 '24
Pullman surcharge found not unreasonable. Ry Age 78:421-3 F 14 '25; Excerpts. Ry R 76:324-5 F 14 '25
Reduced mileage rates and the Pullman surcharge. R. S. Binkerd. Ry R 74:821-2 My 3 '24
Regulation and politics. Ry Age 78:447-8 F 21 '25
Senate votes to abolish surcharge. Ry Age 78:471-3 F 21 '25
Surcharge bill finally defeated. Ry Age 78:569-70 Mr 7 '25
Surcharging the Pullman passenger. F. Snow. Comm & Fin 14:591-2 Ap 1 '25
Why that Pullman surcharge? E. L. Bevington. Nation's Business 12:48 Ap '24

See also Railroads—Tickets; Street railroads—Fares

Finance

Ability of the railroads to profit by the improvement in agriculture and industry. D: Friday. Econ W n s 28:904-5 D 27 '24
Analysis of operations of the Detroit, Toledo & Ironton railroad. Eng & Contr (Ry) 62:860-2 O 15 '24
Applying the budget system to railroads. H: Bruere and A. Lazarus. Ind Management 68:35-46 Jl '24; Discussion. 68:161-3 S '24
Authorization of control of one carrier by another carrier. Ry R 76:87 Ja 3 '25
Autumn industries. Moody's Inv Serv 17:277-8 Ag 20 '25
Back of an increased dividend; the new rate of the Atchison, Topeka & Sante Fe railway. C: F. Speare. Am Bankers Assn J 17:490 F '25
Baltimore & Ohio earning power. map Ry Age 79:36-8 Jl 4 '25
Big Four improves relative position. map Ry Age 79:229-30 Ag 1 '25
Boston & Maine again fails to earn charges. map Ry Age 76:1277-9 My 24 '24
Boston & Maine reorganization. G: B. Leighton. map Ry Age 78:325-7 Ja 31 '25
Boston and Maine reorganization proposed. H. Loring. Ry Age 77:1157-8 D 27 '24
Canadian Pacific 1924 operations. map Ry Age 78:833-5 Mr 28 '25
C.P.R. strength shown in 1923 earnings. map Ry Age 76:847-9 Mr 29 '24
Canadian Pacific troubles nearing an end. P. Gourrich. Annalist 25:125+ Ja 19 '25
Central of Georgia spectacular traffic increase. map Ry Age 76:1141-2 My 10 '24
Changes in financial structure, and financing operations of railroads since 1913. F. E. Richter and G: A. Boyd. charts Harvard Business R 3:54-68 O '24
Chicago, Milwaukee & St Paul Ry. placed in receivers' hands. Comm & Fin Chr 120:1410-12 Mr 21 '25; Ry Age 78:795-8 Mr 21 '25; Ry R 76:583-4 Mr 21 '25
Chicago, Milwaukee & St Paul reorganization plan. Ry Age 78:1404-6 Je 6 '25; Ry R 76:1029 Je 6 '25
Coal situation hurts Pennsylvania. map Ry Age 78:942-4 Ap 11 '25
Colorado & Southern handicapped by floods. map Ry Age 76:1773-5 Je 21 '24

RAILROADS—Finance—*Continued*

Common stock with no par value may help financing. P. E. Crowley. Ry Age 78:22 Ja 3 '25

Credit of the railroads. F. H. Sisson. Credit M 26:7+ Jl '24; Same. Econ W n s 28:4-7 Jl 5 '24

Credit the big railway problem. C. R. Gray. Am Bankers Assn J 16:794+ Je '24

Current earnings statements of public utilities and rails. Annalist 24:582 D 1 '24

Denver & Rio Grande Western takes on new life. Ry Age 76:1763-5; 78:563-6 Je 21 '24, Mr 7 '25

Distribution of railway operating revenues—class I roads, 1912-1923. Ry Age 77:746 O 25 '24

Distribution of railway operating revenues expressed in cents per dollar of gross revenues. Ry Age 77:747 O 25 '24

Dividend changes on railroad stocks in 1923. Ry Age 76:71-2 Ja 5 '24

Dividend changes on stocks in 1924. Ry Age 78:112 Ja 3 '25

Economic factors in the railway situation. Bur Railway Econ misc ser 37:1-14 '25

Effect of colonization and development on general railway income. V. Kuska. Ry Age 78:1330 My 30 '25

Elements of railway economics. W: M. Acworth. rev. and enl. ed. 216p Oxford '24

Equipment maintenance out of proportion. Ry Age 75:1155-60 D 22 '23; Discussion. 76:177-8, 486-7 Ja 12, Mr 1 '24

Essentials of railroad problem. W. W. Atterbury. Ry Age 78:380-2 F 7 '25; Excerpts. Ry R 76:353 F 21 '25

Estimated freight revenue by classes of commodities. Ry Age 77:65-6 Jl 12 '24

Expenditures made by class I railroads in 1924. Ry R 76:1029-30 Je 6 '25; Same. Ry Age 78:1413-14 Je 6 '25

Experience of the C. M. & St P. Ry. an outstanding example of the failure of regulation. Ry R 76:654-5 Ap 4 '25

Fair return and return actually earned. Ry Age 76:445 F 23 '24

Fair return nothing more than a mirage. Ry R 74:373-4 Mr 1 '24

Financial requirements of the railroads, and the market for railroad securities. Comm M 6:3-11 My '24

Financial structure of the Atchison. G. C. Cox. Annalist 24:575 D 1 '24

Financial structure of the St Paul. G: C. Cox. Annalist 24:670 D 22 '24

Financial structure of the Southern railway. G: C. Cox. Annalist 25:94 Ja 12 '25

First report of the research council of the National transportation institute. Ry Age 76: 283-4 Ja 26 '24

Freight rates the lowest and service the best since 1920. C. D. Morris. Ry R 76:1225-6 Je 27 '25

Great Northern compared with other roads. map Ry Age 79:275-8 Ag 8 '25

Greater efficiency shown in railroad operation. W. W. Baxter. Ry R 77:48-50 Jl 11 '25

Gross earnings by weeks. Published in weekly numbers of Commercial and financial chronicle

Hearing on government interest rate. Ry Age 78:277-8 Ja 24 '25

How much are the railways earning. Ry Age 79:690-1 O 17 '25

How net operating income has been increased. Ry Age 77:1052-3 D 13 '24

How railroads have saved since 1920. Ry R 77:317 Ag 29 '25

How to select bonds; St Paul receivership recalls famous reorganizations of the past. F. J. Lisman. Forbes 16:216-17 My 15 '25

Illinois Central improvements cost $50,000,000. map Ry Age 76:1045-7, 1066-7 Ap 26 '24

Increasing burden of fixed charges. Ry Age 79: 383-4 Ag 29 '25

Indian railway budget handled separately. Ry Age 77:911 N 15 '24

Interest bill amended. Ry Age 78:320 Ja 31 '25

I.C.C. examiner recommends denial of certificate for Coal River & Eastern, a Brotherhood property. Ry Age 77:424-5 S 6 '24

I. C. C. to consider revenue needs of western roads. Ry Age 79:129 Jl 18 '25

Loans etc., made by Federal authorities under Control act, Act of 1920, etc. Comm & Fin Chr 120:2768 My 30 '25

Michigan Central breaks previous records. map Ry Age 76:1826-7 Je 28 '24

Michigan Central has another good year. map Ry Age 79:93-4 Jl 11 '25

Missouri-Kansas-Texas prosperity. map Ry Age 78:369-72 F 7 '25

Modified Potter plan. R. E. Thompson. Ry Age 79:742 O 24 '25

Monthly report of steam railroad earnings. Published in monthly supplement to Moody's rating books of Moody's investors service

Narrow margin over Burlington dividends. map Ry Age 76:1213-15 My 17 '24

Net return for last year 4.35 per cent. Ry Age 78:454-5 F 21 '25; Econ W n s 29:265-6 F 21 '25; Bradstreet's 53:129-30, 145 F 21-28 '25

New York Central has best year in history. map Ry Age 76:1325-7 My 31 '24

New York Central net decreased. map Ry Age 78:1539-41 Je 20 '25

Norfolk & Western improves property; capital expenditures in 1924 total $33,000,000. map Ry Age 78:887-9, 910-14 Ap 4 '25

Northern Pacific suffers from low rate level. map Ry Age 76:1511-12 Je 14 '24

Operating results for class I railroads for 1923. Nat City Bank p 45-7 Mr '24; Ry Age 76:427 F 16 '24

Our railroads' worth; their future. Forbes 13: 754+ Mr 29 '24

Pennsylvania continues operating improvement. map Ry Age 76:895-7 Ap 5 '24

Plan for budgeting transportation expenses. J. E. Slater. Ry Age 77:795-8 N 1 '24

Plant facility—marked for success; Detroit, Toledo & Ironton. Ry Age 76:823-4 Mr 29 '24

President and Mellon approve reduced interest rate. Ry Age 78:235-6 Ja 17 '25

Public utility compared with railway operation. C. H. Westerbrook. Ry Age 79:74 Jl 11 '25

Railroad achievements. Moody's Inv Serv 17: 129-30 Ap 16 '25

Railroad construction requirements and estimated expenditures for the next 10 years. Eng & Contr (Ry) 61:421-2 F 20 '24

Railroad credit. C. B. Fletcher. Ry R 75: 959-62 D 13 '24

Railroad earnings, June and six months'. Bradstreet's 52:541 Ag 23 '24

Railroad earnings in 1924 from the standpoint of investors of capital in the railroads. S. Thompson. Econ W n s 29:438-9 Mr 28 '25

Railroad earnings, twelve months ending December 31, 1924. Index p 9 F '25

Railroad earnings for twelve months ending Jan. 31, 1925. Index p 7 Mr '25

Railroad earnings, twelve months ending March 31, 1925. Index p 12 My '25

Railroad employees' interest in railroad earnings. C. B. Fletcher. Ry R 76:280-1 F 7 '25

Railroad expenditures in 1925. Bradstreet's 53:338 My 23 '25

Railroad expenditures pass billion mark. Eng N 92:396 Mr 6 '24

Railroad financing by sales of new stock. F. J. Deesen. Annalist 25:319+ Mr 2 '25

Railroad financing in 1924. Eng & Contr (Ry) 63:567 Mr 18 '25

Railroad gross and net earnings for September. Comm & Fin Chr 117:2040-3 N 10 '23 [continued monthly]

Railroad gross and net earnings for the calendar year 1923; editorial. Comm & Fin Chr 118:837-44 F 23 '24

Railroad gross and net earnings for the calendar year 1924; editorial. Comm & Fin Chr 120:1005-12 F 28 '25

Railroad gross and net earnings for the six months ending June 30. Comm & Fin Chr 121:900-5 Ag 22 '25

Railroad history in the making. F. Snow. Comm & Fin 14:1665-6 S 2 '25

RAILROADS—Finance—*Continued*
Railroad outlook. Moody's Inv Serv 17:149-52 Ap 30 '25
Railroad situation. Nat City Bank p 166-70 O '24
The railroads. Nat City Bank p 45-7 Mr '24
Railroads. Nat City Bank p 48-50 Mr '25
Railroads and national expansion. C. H: Markham. Ry Age 77:1117-20 D 20 '24
Railroads earned less in 1924. Am Ind 25: 8+ Mr '25
Railroads injured by subsidized competition. F. W. Sargent. Ry Age 79:651-2 O 10 '25
Railroads must borrow money again. S. M. Felton. Ry R 76:1179-80 Je 20 '25
Rails—yesterday and tomorrow. S. L. Miller. Burroughs Clearing House 10:5-7+ N '25
Railway capitalization and income for 1924. Ry Age 78:1292 My 23 '25
Railway earnings and new security rates. Comm M 6:11-12 S '24
Railway earnings in 1923. Bradstreet's 52:125 F 23 '24
Railway earnings monthly for seven years. Bradstreet's 52:31 Ja 12 '24
Railway earnings monthly for eight years. Bradstreet's 53:26-7 Ja 10 '25
Railway earnings monthly for nine years. Bradstreet's 53:243 Ap 11 '25
Railways earn nearly five per cent first half 1925. Ry R 77:256-7 Ag 15 '25
Railways, employees and the public. Ry Age 78:398-9 F 14 '25
Railways of the United States. Eng & Contr (Ry) 63:338 F 18 '25
Receivers of St Paul railroad offer rate plan to aid road. Comm & Fin Chr 121:36, 69-70 Jl 4 '25
Receiverships and foreclosure sales during 1923. Ry Age 76:69-71 Ja 5 '24; Ry R 74: 225-6 F 2 '24
Receiverships and foreclosure sales during 1924. Ry Age 78:95-6 Ja 3 '25
Reduced expenses save Illinois Central net. map Ry Age 78:1031-3 Ap 25 '25
Relative receipts per ton-mile, compared with relative wholesale prices of farm products and of all commodities, 1900-1924; chart. Ry Age 77:786-7 N 1 '24
Report of Inter-state commerce commission says roads are not receiving return of 5¾%. Comm & Fin Chr 119:2720-1 D 13 '24
Results of railroad operations, 1920-24. Bradstreet's 53:274 Ap 25 '25
Revenue returns of United States railroads. Published in monthly Railway earnings section of Commercial and financial chronicle
Revenue returns of United States railroads for January 1924 and 1923 and for the calendar years 1923 and 1922. Comm & Fin Chr Railway earnings section 118:4-13 Mr 15 '24
Revenues and expenses of railways; month of December and twelve months of calendar year 1923; tabulation. Ry Age 76:468-73 F 23 '24
Roads which are earning over 6 per cent on property investment. Ry Age 76:1083-4 My 3 '24
St Paul plan of rate relief. J. S. Eaton. Ry Age 79:137-40 Jl 18 '25
Santa Fe earns five times interest charges. map Ry Age 76:1094-6 My 3 '24
Santa Fe has record-breaking year. Ry Age 78:997-9 Ap 18 '25
Spending $1.75 to take in $1. R. S. Henry. il map Nation's Business 13:47-9 My '25
Statistical review of the railroad year 1924. J. H. Parmelee. Ry Age 78:52-7+ Ja 3 '25
Ten years' changes on an average mile of railroad. Ry Age 77:672-3 O 18 '24
Texas & Pacific in promising position. map Ry Age 78:273-5 Ja 24 '25
This boom in rails. A. H. Temple. Comm & Fin 13:2275-6 N 26 '24
Trend of railway earnings shown in charts. H: M. Sperry. Ry Age 79:176-80 Jl 25 '25
Union Pacific pays fixed charges from investments. map Ry Age 76:991-3 Ap 19 '24
Western Pacific possibilities. map Ry Age 78: 407-9 F 14 '25
What about our railroad pension systems? Ry Age 79:551-2, 601, 644, 694 S 26-O 17 '25
What is a fair return? Ry Age 78:920-1 Ap 11 '25
What other industries consider a fair return. D: Friday. chart Ry Age 76:1081-3 My 3 '24
When industry and transportation get together. E. G. Buckland. Ry R 76:646-8 Ap 4 '25; Same. Am Ind 25:30-1 Ap '25
Why Henry Ford's railroad has grown profitable. Ry Age 76:845-6 Mr 29 '24
Why the St Paul failed. C: F. Speare. Am Bankers Assn J 17:613+ Ap '25
Why the St Paul is bankrupt. Ry Age 78: 818-20 Mr 28 '25

See also Electric railroads—Finance; Grade crossing elimination—Finance; Railroads—Accounting; Railroads—Cost of operation; Railroads—Costs; Railroads—Equipment trust; Railroads—Management; Railroads—Rates; Railroads—Securities; Railroads—Valuation; *also* names of railroads, e.g. Atchison, Topeka and Santa Fe railway; Atlantic Coast Line railroad; Baltimore and Ohio railroad; Bangor and Aroostook railroad; Boston & Maine railroad; Buffalo, Rochester & Pittsburgh railroad; Canadian Pacific railway; Central of Georgia railroad; Chesapeake and Ohio railway; Chicago and Alton railroad; Chicago & north western railway; Chicago, Burlington & Quincy railroad; Chicago Great western railroad; Chicago, Indianapolis and Louisville railway; Chicago, Milwaukee and St Paul railway; Chicago, Rock Island and Pacific railway; Chicago, St Paul, Minneapolis and Omaha railway; Cleveland, Cincinnati, Chicago & St Louis railway; Colorado & Southern railway; Delaware and Hudson railroad; Delaware, Lackawanna and Western railroad; Florida East Coast railway; Fonda, Johnstown and Gloversville railroad; Great Northern railway; Hocking Valley railway; Illinois Central railroad; Kansas City Southern railway; Lehigh Valley railroad; Louisville & Nashville railroad; Maine Central railroad; Michigan Central railroad; Minneapolis, St Paul and Sault Ste Marie railway; Missouri-Kansas-Texas railroad; Missouri Pacific railroad; Nashville Chattanooga and St Louis railway; New York Central railroad; New York, Chicago and St Louis railroad; New York, New Haven & Hartford railroad; Norfolk and Western railway; Norfolk Southern railroad; Northern Pacific railway; Pennsylvania railroad; Reading company; St Louis-San Francisco railway; Seaboard air line railway; Southern Pacific railroad; Southern railway; Union Pacific railroad; Wabash railway; Western Maryland railroad

Fires and fire protection
Causes of railroad fires. Safety Eng 49:274-5 Je '25
Creosoted trestle burns without damage. il Ry R 76:1111 Je 13 '25
Effect of preservatives on the inflammability of wood; report of A.R.E.A. committee. Ry R 76:615-17 Mr 28 '25
Fire hazard of treated timber. C. S. Heritage. Ry Age 77:756-7 O 25 '24
Fire loss of railroads ten million dollars in 1924. W. W. Baxter. Ry R 77:641-2 O 24 '25
Fire safe construction will lessen losses. Ry R 77:567-8 O 10 '25
Railway fire protection association 12th annual meeting, Chicago. Ry Age 79:801-2 O 31 '25
Station men and fire prevention. W: S. Wollner. Ry Age 75:1204 D 29 '23

See also Railway fire protection association

Flagmen
Ideal flagman. Ry Age 77:533 S 27 '24

RAILROADS—*Continued*

Forms, blanks, etc.

Form for ordering arch bars. F. C. Watrous. il diag Ry Mech Eng 97:829 D '23
Standard forms for purchasing. E. R. Woodson. Ry Age 78:1536 Je 20 '25
Value of a good pocket record. C: Weiss. Ry R 75:12-13 Jl 5 '24

See also Invoice forms

Freight

Analysis of railroad freight performance for years since 1919. Ry R 74:821 My 3 '24
Can the railways meet the next peak? A. B. Johnson. Ry R 74:338-40 F 23 '24
Car loadings a defective business index. C. W. Foss. Annalist 25:95 Ja 12 '25
Disposition of unclaimed freight. R. T. Stevens. Ry Age 76:1696-7; Discussion. 1697-8 Je 18 '24
Eastern advisory board forecasts traffic demands for 1924. Ry R 74:306 F 16 '24
Economizing the time of the way freight train. E. F. Ford. il Ry Age 75:1209-10 D 29 '23
Establishment of zone stations for the handling of freight in terminal cities. W. H. Lyford. Ry Age 78:1408-9 Je 6 '25
Estimated freight revenue by classes of commodities. Ry Age 77:65-6 Jl 12 '24
Feed, don't starve, your railroads. R. S. Henry. il Nation's Business 12:42-4+ D '24
Freight classification. R. W. Fyfe. 247p La Salle extension univ., Chicago '23
Freight commodity statistics for 1923. Ry Age 76:884 Ap 5 '24
Growth of business through Chicago Junction Ry's. union freight stations. E. L. Whitney. Ry R 75:201-2 Ag 9 '24
Heavier freight trains reduce railway costs. Ry R 77:521-2 O 3 '25
How the shipper can improve railroad service. M. C. Fitzgerald. Ry R 77:621-2 O 24 '25
Less damage to freight by rough handling. C. F. Polzin. il Ry Age 75:1057-9 D 8 '23
Low railway traffic and prosperity in the Northwest. C: W. Foss. Annalist 26:150+ Ag 7 '25
Movement of the product of agriculture. W. L. Crum. charts Ry Age 77:703-6 O 18 '24
Portland cement industry, an important source of freight. il Ry R 74:845-6 My 10 '24
Predicts railway traffic record. D: Friday. Am Ind 25:18-19 Ja '25
Prevention of loss and damage to freight. T. A. Ward. Ry Mech Eng 98:21-2; Discussion. 22-3 Ja '24
Principal factors in freight train operating. P. Burtt. 208p G. Allen & Unwin, ltd., London '24
Promise of 1924. Ry Age 76:533-4 Mr 8 '24
Railroad traffic and the business cycle. H. B. Vanderblue. il charts Ry Age 76:783-6, 885-8, 987-90 Mr 22, Ap 5, 19 '24
Railway-borne commerce in the Chicago region and its requirements. E. H. Lee. W Soc E J 30:204-10 Ap '25
Record car loading expected in 1925. Ry Age 78:1202-3 My 16 '25; Same. Comm & Fin Chr 120:2897 Je 6 '25
Report on maintenance of manifest and time freight schedules. Ry Age 76:1819-20 Je 28 '24; Same. Ry R 75:165-6 Ag 2 '24
Salvaging grain at derailments and in yards. E. F. Ford. Ry Age 78:1470 Je 13 '25
Shifting of load lessens shock to freight. il diag Ry Age 79:315 Ag 15 '25
Some causes of delay to loaded car movement. R. A. Munsch. il Ry R 74:681-3 Ap 12 '24; Abstract. Ry Age 76:788 Mr 22 '24
Statistical defects of car loadings figures. C: W. Foss. Annalist 26:475-6 O 16 '25
Total car loading as a business index. J. H. Leighton. Annalist 26:574 N 6 '25
Traffic in 1924 more than six per cent under 1923. Ry R 76:548 Mr 14 '25
Transport advisory body advocated. Ry Age 78:319-20 Ja 31 '25
Unprecedented uniformity of 1923 freight traffic. Ry Age 75:996 D 1 '23
Unsurpassed railroad freight tonnage in calendar year 1923. Comm & Fin Chr 118:729 F 16 '24

See also Bills of lading; Container system (freight handling); Demurrage; Electric railroads—Freight; Freight, Perishable; Freight car service; Freight cars; Freight handling; Freight subways; Priorities, Industrial; Railroads—Claims; Railroads—Loading rules; Railroads—Motor vehicle auxiliaries; Railroads—Rates; Railroads—Terminals; Railroads—Train load; Railroads—Yards; Refrigerator cars; Regional shippers advisory boards; Tank cars; Terminals; Track scales; Waybills; *also* subdivision Transportation under various subjects, e.g. Automobiles—Transportation; Coal—Transportation; Fruit—Transportation; *also* Interstate commerce commission

Freight cars

See Freight cars

Fuel

How can fuel purchases effect fuel economy? H. C. Pearce. Ry Age 78:1349-51 My 30 '25; Same cond. Ry R 76:1012 Je 6 '25
How the railroads are saving in their coal bills. H. A. Haring. Annalist 25:318 Mr 2 '25
Report on accounting, distribution and statistics. Ry Age 76:1515-17 Je 14 '24
Summer storage by railroads would level coal production. Coal Age 25:847-8 Je 5 '24; Excerpt. Power 59:1051 Je 24 '24

See also Coaling stations; Locomotives—Fuel; Oil bunkering stations

Gages

See Railroads, Narrow gage

Gasoline supply

Railroad issues gasoline from supply train tank car. L. B. Wood. il Ry Age 78:1036 Ap 25 '25

Government ownership

See Railroads and state

Grades

Analysis of railroad grades for classification. S. Vilar y Boy. Am Soc C E Pro 50:255-63 Mr '24
Fuel consumption and grade revision. F. A. Russell. Ry Age 78:519-23 F 28 '25
Grade reduction or heavier power; A.R.E.A. report. Ry R 74:509-10 Mr 15 '24; Same. Eng & Contr (Ry) 61:640-1 Mr 19 '24; Same. Eng N 92:815 My 8 '24
Improving Cleveland-Pittsburgh line—Pennsylvania R.R. il maps Eng N 93:88-92 Jl 17 '24

See also Grade crossings; Mountain railroads; Railroads—Track depression

Harbor equipment

See Railroads—Terminals

History

America's one tramp railroad train. Nation's Business 13:41 F '25
Centenary of the railroad. F. Dickie. il Sci Am 133:104-5 Ag '25
First through line; Boston and Albany. il Ry Age 78:1379 Je 6 '25
Some discussion that preceded railroads in America. G: E. Boyd. Ry R 77:476-7 S 26 '25
World's first railway ticket sold 100 years ago. il Ry R 77:447-58 S 26 '25

Bibliography

Source material on railroad history. E. Cullen. Special Lib 16:44-8 F '25

Hotels

In the playgrounds of Canada; railroads operate hotels and bungalow camps to serve the tourist's needs. il Ry R 75:717-31 N 8 '24

RAILROADS—*Continued*

Ice supply

Engineering of refrigeration and development of car icing stations. J. W. Inghram. W Soc E J 29:28-32 Ja '24

Ice houses and icing stations. Ry R 74:556-7 Mr 22 '24

Icing freight cars with electric trucks. il N E L A Bul 12:328 My '25

Transportation of perishable freight. G. H. Nelson. W Soc E J 29:23-6; Discussion. 26-7 Ja '24

See also Refrigerator cars

Inspection

Sanitary inspection and testing laboratory, St Louis Southwestern lines. Ry R 76:571-2 Mr 21 '25

See also Car inspection; Locomotives—Inspection

Law

See Railroad law

Lighting

Some notes on traction lighting by electricity. J. F. Caine and E. A. Marx, jr. Illum Engr 17:23-5; Discussion. 25-8 Ja '24

See also Car lighting; Railroads—Shops—Lighting; Railroads—Stations—Lighting; Railroads—Yards—Lighting

Loading rules

A. R. A. report of loading rules committee. diags Ry Age 78:1586-7 Je 20 '25; Ry Mech Eng 99:442-3 Jl '25

Discussion on loading rules. Ry Mech Eng 97:823 D '23

Mark cars according to A.R.A. rules. il Ry R 77:523 O 3 '25

Proper loading and stowing of freight. G: Halliday. Ry R 76:954 My 23 '25

Report of A. R. A. committee on loading rules. diag Ry Age 76:1684-6; Discussion. 1686 Je 18 '24

Location

Design of railway location. C. C. Williams. 2d ed., rev. 517p Wiley '24

Railway location and economics. A. M. Haynes. Eng N 93:74 Jl 10 '24

Relocation avoids large trestles and sharp curves. il Eng N 91:981 D 13 '23

Report of A.R.E.A. committee on economics of railway location. Ry R 76:529-30 Mr 14 '25

See also Railroad surveying; Railroads—Construction; Railroads—Curves and turnouts

Maintenance and repair

Few pointers for master mechanics. C. J. Deitrich. Ry R 77:519-20, 789 O 3, N 21 '25

Maintenance of way methods on Lehigh Valley R.R. G. L. Moore. Eng & Contr (Ry) 63:663-7 Mr 18 '25; Excerpts. Ry Age 77: 497-8 S 20 '24; Ry R 75:824-6 N 22 '24

Problem of mechanical statistics. J. E. Slater. Ry Age 76:1524-5 Je 14 '24

Wirtschaftlichkeit beim anstrich von eisenbauwerken. Hülsenkamp. Zeit Ver Deutsch Ing 68:1006-7 S 20 '24

See also Cars—Repair; Freight cars—Repair; Locomotive shops; Locomotives—Repair; Railroad ties; Railroads—Contract work; Railroads—Equipment and supplies; Railroads—Management; Railroads—Roadmasters; Railroads—Shops; Railroads—Track; Rails

Maintenance of way

See Railroads—Track

Management

Annual staff meetings of the C.M. & St P. Ry Mech Eng 98:352-4 Je '24

Brains + money = lower freights. R. S. Henry. il Nation's Business 12:19-22 Jl '24

Business of moving trains at a profit. E. B. Hall. il Ry R 75:875-7 N 29 '24; Same. Ry Age 77:928-9 N 22 '24

Certain illusions as to great leaders. C: Weiss. Ry Age 75:1207-8 D 29 '23

Control of material in railroad operation. A. Lazarus. Ind Management 70:198-204 O '25

Co-operation—not an idle dream; practical results on the Central of Georgia railway. R. V. Wright. il Ry Age 78:259-65 Ja 24 '25

Dual nature of railroad management. Ry Age 79:597-8 O 3 '25

Efficiency of operation on class 1 railroads despite decrease in gross and net ton miles. O. O. Carr. Ry R 75:907-8 D 6 '24

Engineer as a railroad executive. J. Kruttschnitt. Mech Eng 47:313-18 My '25; Same. Am Soc C E Pro 51:1065-81 Ag '25; Abstracts. Ry Age 78:939-41 Ap 11 '25; Management & Adm 9:474 My '25

Feed, don't starve, your railroads. R. S. Henry. il Nation's Business 12:42-4+ D '24

First move to co-ordinate study of fuel economy; joint meeting of the A.R.A. committee on fuel conservation and a committee of the International railway fuel association. Ry R 74:94-5 Ja 5 '24

Ford railroad, the D.T. & I., has unique operating practices. il Ry Age 78:501-6 F 28 '25

Fundamentals of fuel economy. W. L. Richards. il Ry Age 75:999-1003 D 1 '23; Same. Ry R 73:866-71 D 15 '23; Same cond. Ry Mech Eng 97:809-13 D '23

Greater efficiency shown in railroad operation. W. W. Baxter. Ry R 77:48-50 Jl 11 '25

How net operating income has been increased. Ry Age 77:1052-3 D 13 '24

How railway equipment is being utilized. C: W. Foss. Annalist 25:285 F 23 '25

Let work begin—a slogan that wiped out a deficit. W: A. McGarry. Forbes 15:764-6 Mr 15 '25

Level head and a feeling heart. A. Montangie. Ry Mech Eng 98:174-5 Mr '24

More planning needed. Ry Age 78:257 Ja 24 '25

National industrial conference board report shows improved railroad performance. Ry Age 77:299-302 Ag 16 '24

N. & W. holds efficiency meeting. Ry Age 79: 519-20 S 19 '25

Performance of the railroads in 1924. Ry Age 77:955-7 N 22 '24

Possibilities of greater efficiency in operation. S: Rea. Ry R 74:262-3 F 9 '24

Railroad operation. E. Cordeal. 255p Simmons-Boardman pub. co., New York '24

Railroad's relations with its industries. A. Leckie. Ry R 75:367-9 S 6 '24

Some essential aids to more prudent management. Ry R 76:1046-8; 77:6-8, 159-60, 308-11 Je 13, Jl 4, Ag 1, 29 '25

Some operating phases of maintenance of way. E. T. Howson. Ry Age 75:915-18 N 17 '23

Some opportunities to promote efficiency. F. McManamy. Ry R 74:1218-19 Je 21 '24

Statistics as an aid to railroad operation. J. E. Slater. Ry R 77:101-3, 201-4 Jl 18, Ag 8 '25

Suggestions for improving work, train service and efficiency; report submitted at 1924 convention. Eng & Contr (Ry) 62:855-9 O 15 '24

Time factor in transportation. C: E. Lee. Ry Age 76:1133-5 My 10 '24

Trunk line operation in England and Scotland differs from that in United States. Elec Ry J 64:458-9 S 20 '24

Vindication of private operation. S: O. Dunn. Ry Age 77:748 O 25 '24

Waste—some ways to eliminate it. D. M. Raymond. Ry Mech Eng 98:595-6 O '24

RAILROADS—Management—*Continued*

What Henry Ford does not do! Ry Age 79: 215 Ag 1 '25

See also Car inspection; Freight car service; Freight handling; Railroads—Claims; Railroads—Employees; Railroads—Equipment and supplies; Railroads—Finance; Railroads—Maintenance and repair; Railroads—Office management; Railroads—Public relations; Railroads—Purchasing; Railroads—Rates; Railroads—Roadmasters; Railroads—Safety devices and measures; Railroads—Ticket offices; Railroads—Train load; *also* Detroit, Toledo and Ironton railroad

Mechanical departments

Cost control for the mechanical department. G: W. Armstrong. il Ry Mech Eng 98:459-63 Ag '24; Same. Ry Age 77:363-7 Ag 30 '24

Few pointers for master mechanics. C. J. Deitrich. Ry R 77:519-20, 789 O 3, N 21 '25

Helping the mechanical department foremen. W. O. Foreman. Ry Age 78:1440-1 Je 13 '25

How the mechanical department can reduce expenses. E. J. Brennan. Ry Age 78:1437-8 Je 13 '25

Mechanical department possibilities. L. F. Loree. Ry Age 78:1435-6 Je 13 '25

Mechanical officer and the tool builder. E. F. DuBrul. il Ry Mech Eng 99:331-2 Je '25

Problem of mechanical statistics. J. E. Slater. Ry Age 76:1271-4, 1524-5 My 24, Je 14 '24

Railroads' interest in safe locomotives. A. G. Pack. Ry Age 78:1027-9 Ap 25 '25; Same cond. Ry R 76:855-7 My 9 '25

Relation of stores and mechanical departments. F. M. A'Hearn. il Ry Mech Eng 97: 834-8 D '23

Medical service

Railroad hospitals on ten roads. il Ry Age 79:102-3 Jl 11 '25

Mileage

Certificates of convenience and necessity issued by Interstate commerce commission during year. Ry R 76:87-9 Ja 3 '25

Construction activities in 1924. il Ry Age 78:59-67 Ja 3 '25; Excerpt. Eng & Contr (Ry) 63:135-8 Ja 21 '25

Continuous decrease of railroad mileage in the United States in recent years. Econ W n s 28:478-9 O 4 '24

Decline of railroad mileage. Ry Age 78:1072 My 2 '25; Same abr. Econ W n s 29:659 My 9 '25

More about the decline of railroad mileage. Ry Age 77:529-30 S 27 '24

Railway construction resumed on large scale. Ry Age 76:50-8 Ja 5 '24

Railway mileage of the world, 1922. Ry Age 77:752 O 25 '24; Same. Ry R 75:839 N 22 '24

See also Railroads—Abandonment

Models

Model railways, their design, details and practical construction. H: Greenly. 311p Cassell & co., London, New York '24

Motor vehicle auxiliaries

B. & M. transportation company. Ry Age 78:1378-9 Je 6 '25

B. & M. transportation company outlines New England bus service. Ry R 76:1119 Je 13 '25

Bus and truck in transportation. W. C. White. Nation's Business 12:48+ Mr '24; Same. Aera 12:1519-24 Ap '24

Bus policy of New Haven railroad defined. Elec Ry J 66:218 Ag 8 '25

Coordinating highway and railroad transportation. A. H. Swayne. Comm & Fin 14:1403-5 Jl 22 '25

Co-ordination of rail and road transport; abstract and discussion. D. R. Lamb. Engineering 119:645-6 My 22 '25

Fifty-one steam railroads use trucks; twenty-one use buses. Comm & Fin Chr 121:2232-3 N 7 '25; Same. Eng & Contr (G C) 64:1134 N 18 '25

Great Northern forms bus company for Minnesota operation. Ry R 76:992 My 30 '25

Highway operation designed to cut railway costs on B. & M. il map Bus Transportation 4:503-7 O '25

How two railroads are supplied with patrons. il Bus Transportation 3:519-20 N '24

Legality of railroad operation of bus subsidiaries argued. J: M. Meighan. Bus Transportation 4:317-19 Jl '25

Motor bus as an adjunct to the railroad. R. S. Williams. Ry Age 75:1199-1200 D 29 '23; Discussion. F. H. Alfred. Ry Age 76:316-18 F 2 '24

Motor bus policy of the New Haven. A. P. Russell. Ry R 77:254-6 Ag 15 '25

Motor truck as an ally of the railroads. R. C. Morse. Ry R 76:1116-17 Je 13 '25; Abstract. Eng & Contr (G C) 63:1356 Je 17 '25

Motor truck successful as railroad ally. G. C. Woodruff. Ry Age 78:1409-10 Je 6 '25

Motor vehicles have become allies of rail and water carriers. H: W. Thornton. Automotive Ind 50:1220-2 Je 5 '24; Abstract. Ry Age 77:30 Jl 5 '24

New Haven forms a company to operate buses. Ry Age 78:1513-14 Je 20 '25; Aera 13:2047-8 Jl '25

New Haven's million dollar bus experiment. G: H. Scragg. il Ry R 77:604-5 O 17 '25

North Shore Line eliminates bus competition; operates its own fleet. il map Ry Age 77:275-7 Ag 16 '24

Pennsylvania installs 204 miles of motor truck service during 1923. R. S. Hurd. il Ry Age 76:319-21 F 2 '24

Railroads become a factor in the bus field. E: F. Loomis. Bus Transportation 4:482-4 O '25

Railroads want right to run buses. Bus Transportation 4:153 Mr '25

Railway traffic in a transition stage. C: W. Foss. Annalist 25:837-8 Je 22 '25

Reading plans to put bus service into operation. Ry R 77:498-9 S 26 '25

Short lines put the bus to work. C. T. Crowell. il Nation's Business 13:31-3 Ap '25

Steam railroads plan important part in the bus field. map Bus Transportation 4:357-8 Jl '25

Substituting the highway motor bus for branch line passenger service. il Ry R 75: 837-8 N 22 '24

Tickets good on either rail or bus. il Bus Transportation 3:521-2 N '24

Transport conference discusses railroad problems. G: E. Boyd. Ry R 76:967-8 My 30 '25

Transportation efficiency in future depends on motor vehicle; abstracts. G: M. Graham. Automotive Ind 50:1068-71 My 15 '24; Ry Age 76:1207 My 17 '24; Aera 12:1867-73 Je '24

Truck a help. M. L. Bell. Ry Age 78:1407-8 Je 6 '25

See also New England motor transport conference

Motor vehicle competition

Bus taxes and the railroads. F. M. Kenney. Bus Transportation 4:446 S '25

Effect of automobile travel. C. M. Burt. Ry Age 77:643-4 O 11 '24

Motor truck. Index p 17-18 My '25

Railroad abandonments and their relation to highway transportation. H: R. Trumbower. Pub Roads 6:169-73 O '25; Excerpt. Eng & Contr (G C) 64:1304 D 16 '25

Railroads and highway transport. C. L. Bardo. Ry Age 77:1068-9 D 13 '24

Road or rail? F. Snow. Comm & Fin 14: 1223-5 Je 24 '25

Roads—motor and rail. G: W. Anderson. Aera 13:1678-89 My '25

Schienenbahnen und kraftwagen. Wernekke. Elektrotech Zeit 46:1261-3 Ag 20 '25

RAILROADS—Motor vehicle competition—*Cont.*
Shrinkage in passenger receipts hits the railroads. W. A. Lloyd. il Am Bankers Assn J 18:133 S '25
Two views of the rail-truck problem. Munic & Co Eng 68:116-17 Mr '25

Office management

A.R.A. car-repair billing. B. F. Jamison. Ry Mech Eng 98:610-13 O '24; Discussion. 98:675-7 N '24
C.N.R. office method service. C. U. Stapleton. Ry Age 77:241-2 Ag 9 '24
Curtailing correspondence in railroad offices. C. U. Stapleton. Ry Age 77:887-8 N 15 '24
Efficient filing system for maps. plan Ry R 76:768-70 Ap 25 '25
Handling car repair bills efficiently. il Ry Age 76:371-2 F 9 '24
Labor-saving appliances in accounting work. il Ry R 75:1-6 Jl 5 '24
Method for payment for dividends. C. K. Cooper. Ry R 77:628-9 O 24 '25
Office efficiency—an important problem. V: Cahalin. Ry Age 76:428 F 16 '24
Railroad correspondence and its possibilities. G: E. Schneider. Ry Age 78:524 F 28 '25; Discussion. F. Snow. 78:780 Mr 21 '25
Saving $10,000 a year in handling office mail. D. C. Pettibone. System 45:769-71+ Je '24
Uniform letter filing system. R. E. Lorentz. Ry R 77:61-3 Jl 11 '25

Officials

Engineer as a railroad executive. J. Kruttschnitt. Mech Eng 47:313-18 My '25; Same. Am Soc C E Pro 51:1065-81 Ag '25; Abstracts. Ry Age 78:939-41 Ap 11 '25; Management & Adm 9:474 My '25
What new blood can do for a company. F. J. Lisman. Forbes 16:811+ S 15 '25

See also Railroads—Roadmasters

Organization

See Railroads—Management

Passenger service

Joint service and pooling of passenger train earnings. Ry Age 78:458 F 21 '25

Passenger traffic

Heavy loss of passenger business. Ry Age 78: 729-30 Mr 14 '25
Railway passenger travel. Ry Age 78:1620-1; 79:2-4 Je 27-Jl 4 '25; Discussion. F. Snow. 79:214-15 Ag 1 '25

See also Railroads—Suburban traffic

Pooling

Joint service and pooling of passenger train earnings. Ry Age 78:458 F 21 '25

Power

Stationary power plants for railroads. P. R. Duffey. il Ry Mech Eng 99:146-8 Mr '25

Public relations

All groups concerned must co-operate. E. T. Whiter. Ry Age 75:951-4 N 24 '23
Co-operation by railroads the great need. J. M. Campbell. Ry Age 76:229-31 Ja 19 '24
Employees' part in public relations work. R. H. Newcomb. Ry Age 77:737-8 O 25 '24
Farmer and the freight rate. E. Cordeal. Ry Age 76:231-2 Ja 19 '24
How big business can get a square deal from public. R. Budd. Ptr Ink 129:3-4+ O 2 '24
How mechanical officers can help improve public relations. J. E. Bjorkholm. Ry Age 75:1164 D 22 '23
Improvement in public sentiment. Ry Age 76: 3-4 Ja 5 '24
Nothing is small in selling; Illinois Central cultivation of public relations; interview with Charles H. Markham. D. M. Hubbard. Ptr Ink M 11:27-8+ Jl '25
One division superintendent's method of creating good will. M. Seargeant. il Ry R 74:877-8 My 17 '24
Program for getting acquainted with the public; the Michigan railroad association. P. H. Bruske. il Ry R 73:684-7 N 10 '23
Railroad code of ethics. R. S. Parsons. Ry Age 78:286-7 Ja 24 '25
Railway sentiment in rural communities. Ry Age 76:1020-1 Ap 26 '24
Report of N.A.R.U.C. committee on public relations. Ry Age 79:712-14 O 17 '25
Report on the roadmaster's responsibility for the promotion of proper relations with the public. Ry Age 79:571-3 S 26 '25
Selling transportation. G. Fort. Ry R 76:284 F 7 '25

See also Railroads and state

Purchasing

Are the railroads in the markets? charts Ry Age 79:273-4 Ag 8 '25
Decline in railroad purchasing of equipment. C: W. Foss. Annalist 26:85 Jl 24 '25
Fluctuations in equipment purchases. Ry Age 78:968-9 Ap 18 '25
Group railroad buying power. E. C. Barringer. il Iron Tr R 76:625-6 Mr 5 '25
How can fuel purchases effect fuel economy? H. C. Pearce. Ry Age 78:1349-51 My 30 '25; Same cond. Ry R 76:1012 Je 6 '25
How to determine equipment needs. O. O. Carr. Ry R 77:324-5 Ag 29 '25
Method for material procurement. E. J. Remensnyder. Ry Age 76:1651-2 Je 17 '24
Placing of purchasing agents' records. J. D. McCarthy. Ry Age 76:1687-8; Discussion. 1688 Je 18 '24
Price trends and purchasing problems. charts Ry Age 79:191-4 Jl 25 '25
Purchase of materials and supplies. F. D. Reed. Ry Age 79:750-1 O 24 '25; Discussion. 79:980 N 28 '25
Railway purchases in presidential election years. Ry Age 76:870-1 Ap 5 '24
Standard forms for purchasing. E. R. Woodson. Ry Age 78:1536 Je 20 '25
What the stores expect of the purchasing department. R. C. Harris. Ry R 76:953 My 23 '25; Same cond. Ry Age 78:1280 My 23 '25
Why purchases should be stabilized. Ry Age 78:1192-4 My 16 '25

See also Railroad supplies industry; Railroad ties

Rails

See Rails

Rates

Administration of section IV, Commerce act. Ry Age 76:429-30 F 16 '24
Barge trade cuts rail rates. Iron Tr R 77: 715 S 17 '25
Basis of rate construction. B. W. Herman. Ry R 77:566-7 O 10 '25
Broad discussion of freight rates from several angles. D. F. Walker. Manuf Rec 88:95-6 Ag 6 '25
Calculating a rate for coal. M. J. Butler. Can Eng 45:607-8 D 25 '23; Discussion. R. A. C. Henry. 46:105-6 Ja 1 '24
Canadian commission ends the Crow's Nest Pass controversy. Ry R 75:638 O 25 '24; Ry Age 77:744-5 O 25 '24
Canadian railway rates. Nat City Bank p 13-14 N '24; p 8-9 Je '25
Canadian Senate considers railway problems. Ry Age 78:1594-5 Je 20 '25
Chairman Aitchison of Inter-state commerce commission sees rate fixing ineffective as means of insuring good transportation service. Comm & Fin Chr 120:2769 My 30 '25
Chairman Hall of Inter-state commerce commission says freight reductions from July 1922 to end of 1923 amount to $800,000,000. Comm & Fin Chr 118:2142-3 N 8 '24
Chicago livestock transportation arrangements. J. G. Knapp. Univ J of Business 3:188-97 Mr '25
Coal freight-rate decisions made and pending point path to normality. W. P. Ellis. Coal Age 25:85-6 Ja 17 '24
Coal industry hopes for rate decisions assuring reasonable permanency. W. P. Ellis. Coal Age 27:98-102 Ja 15 '25

RAILROADS—Rates—*Continued*
Commerce commission upholds differential freight rates. Bradstreet's 53:130 F 21 '25
Commission and the law. Ry Age 78:1072-3 My 2 '25
Commission considers what rate applies on crude-casinghead shipment. Nat Pet N 17: 79-80 Ja 21 '25
Commodity prices and freight rates. Ry Age 77:970-1 N 29 '24
Crow's Nest agreement upheld. Ry Age 78:577 Mr 7 '25; Ry R 76:480 Mr 7 '25
Crow's Nest Pass rates—latest status. Ry R 76:169 Ja 17 '25
Difference of six cents 100 pounds set in crude and refined rates. Nat Pet N 17:59 N 4 '25
Eastern freight rate investigation. Ry Age 77:1043-4 D 6 '24
Effects of section 28 of the Merchant marine act. Ry Age 76:836-8 Mr 29 '24
Examiner favors denial of section IV applications. Ry Age 77:163-4 Jl 26 '24
Explains western railways plea for increased rates. C. D. Morris. Ry R 77:257-8 Ag 15 '25
Finds livestock rates low. Ry Age 79:484-5 S 12 '25
Freight charge on food products. O. O. Carr. Ry R 74:365-7 Mr 1 '24
Freight rate changes may cost industry millions. N. G. Shidle. Automotive Ind 51:953-4 D 4 '24
Freight rate increase sought by western railroads—position of eastern roads—inquiry of Inter-state commerce commission. Comm & Fin Chr 120:2500-2 My 16 '25
Freight rates and potato prices. Ry Age 77: 988 N 29 '24; Same. Comm & Fin Chr 119: 2494-5 N 29 '24; Same. Ry R 75:852 N 22 '25
Freight rates and prices of anthracite. Ry Age 79:361-2 Ag 22 '25
Freight rates and the policy of the Illinois Central. C. H. Markham. Manuf Rec 88:69-71 S 17 '25
Freight rates cut from Mid-continent to all Indiana points. A. E. Heiss. Nat Pet N 17:27 Mr 25 '25
Freight rates on farm products. Ry Age 78: 256-7 Ja 24 '25
Freight rates the lowest and service the best since 1920. C. D. Morris. Ry R 76:1225-6 Je 27 '25
Freight tariff book. C: F. Walden, comp. rev. ed. 166p Association press, New York '24
Freight tariff nuisance. Manuf Rec 88:76-7 Ag 20 '25
Gooding bill. Ry Age 76:839-41; 78:166-7 Mr 29 '24, Ja 10 '25
Gooding bill; editorial. Ry Age 77:1152-3 D 27 '24
Gooding bill passed by Senate. Comm & Fin Chr 118:2534 My 24 '24
Hearing on bills to repeal section 15a. Ry Age 76:996-1000, 1039-43, 1089-93, 1143-4, 1265-6 Ap 19-My 10, 24 '24; Comm & Fin Chr 118: 1869-71 Ap 19 '24; Ry R 74:734-5 Ap 19 '24
Hearing on Gooding bill. Ry Age 78:285-6, 328-30, 377-9, 403-6 Ja 24-F 14 '25
High taxes are an important factor in railway rates. Ry R 75:146 Jl 26 '24
Hoch-Smith resolution opposed. Ry Age 78: 1030 Ap 25 '25
How farmers are benefiting by good railway service. Ry Age 77:627-9 O 11 '24
How readjustments destroy earning capacity. Ry Age 78:1132-4 My 9 '25; Excerpts. Comm & Fin Chr 120:2766-7 My 30 '25
How to make rail and water rates pay. T. C. Powell. Ry R 77:882-5 D 12 '25; Same cond. Ry Age 79:845-6 N 7 '25
Important cases before the I.C.C. Ry Age 78:1376 Je 6 '25
Increase in farm crop value exceeds freight charges. Ry Age 76:225-6 Ja 19 '24
Increases and decreases in railroad rates. Comm & Fin Chr 119:5 sec 2 N 29 '24; 120:5 sec 2 My 30 '25
Inland rail rates in relation to ocean transportation. T. C. Powell. Ry Age 76:1206-7 My 17 '24
I.C.C. aids smokeless coal to compete with anthracite in Northwest. S. A. Hale. Coal Age 28:256-7 Ag 20 '25
I.C.C. declines to reduce grain rates. Ry Age 77:157-63 Jl 26 '24; Excerpt. Ry R 75:144-5 Jl 26 '24
I.C.C. examiner favors reduction of rates on steel. Iron Age 113:1505-6 My 22 '24
I.C.C. orders gasoline rate cut based on complaint of auto clubs. Nat Pet N 16:31 O 22 '24
Inter-state commerce commission orders lower freight rates in East on anthracite coal substitutes. Comm & Fin Chr 121:801-2 Ag 15 '25
I.C.C. organizes for rate investigation. Ry Age 78:1514 Je 20 '25
Inter-state commerce commission postpones until June 20 effective date of preferential railroad rate section of shipping act. Comm & Fin Chr 118:2001-3 Ap 26 '24
Interstate commerce commission reopens grain rate investigation. Ry Age 75:983 N 24 '23
I.C.C. sees no need of general rate overhauling. Ry Age 76:943-7 Ap 12 '24
Inter-state commerce commission to begin hearings into class rate readjustment February 4. Comm & Fin Chr 119:2969-70 D 27 '24
Is Interstate commerce commission an economic dictator? K. F. Burgess. Ry Age 79: 441-4 S 5 '25; Excerpts. Ry R 77:363-4 S 5 '25; Discussion. Ry Age 79:422-3 S 5 '25
Kansas refiners lead rate attack; other groups will follow. J. C. Chatfield. Nat Pet N 16: 27-8 F 13 '24
La Follette proposes pre-war rates on farm products. Ry Age 76:360 F 9 '24
Make them meet their own issue squarely. Ry Age 75:1043-4 D 8 '23
Making the freight rates. F. Snow. Comm & Fin 14:1859-61 S 23 '25
Many freight rates are changed. Iron Age 115:1213-16 Ap 23 '25
Modified procedure in rate cases before I.C.C. Ry Age 76:542 Mr 8 '24
More about wages and rates. Ry Age 76:402-3 F 16 '24
New Canadian rate law. Ry Age 78:1635-6 Je 27 '25
Order reducing rates on logs held invalid. Ry Age 78:1107 My 2 '25
Pacific coast dealers lose ground in freight rate fight. H. H. Dunn. Automotive Ind 52:493-4 Mr 12 '25
Pig iron freight rates. Iron Age 116:477 Ag 20 '25
Pittsburgh to compete in West. Iron Tr R 76:1067+ Ap 23 '25
Preferential railroad rates under Shipping act ordered by Inter-state commerce commission. Comm & Fin Chr 118:1225-6 Mr 15 '24
Prices of farm products in comparison with railway rates. Ry R 75:635 O 25 '24
Prices of wheat and their relationship to transportation costs. Ry R 76:587 Mr 21 '25
Proposed revision of southern class rates. Ry Age 76:796-8 Mr 22 '24
Question of general rate investigation before Congress. M. W. Kriegh. Min Cong J 10: 207-8 My '24
Railroad freight questions demand honest investigation by railroad officials. Manuf Rec 88:72-4 Jl 16 '25
Railroad problem. H. Hoover. Eng N 91:976 D 13 '23
Railroad question; a test of democracy. S: O. Dunn. Ry Age 76:409-12 F 16 '24
Railroad rate problem in the United States today. H. Holden. Econ W n s 29:405-7 Mr 21 '25
Railroad rates. T. W. Van Metre. Eng & Contr (Ry) 61:138 Ja 16 '24
Railroads and prosperity. Ry R 77:532 O 3 '25
Railroads and the industry. G. Fort. Textile World 65:2993-4 My 3 '24
Railroads and the Merchant marine act. Ry Age 76:773-4 Mr 22 '24
Railroads' position on reduced rates on export wheat. Ry R 73:683-4 N 10 '23
Railway rates and cost of service. O. Ely. 148p Houghton '24

RAILROADS—Rates—*Continued*
Railway rates on coal. Gas J (Lond) 165:502-3 F 27 '24
Railway wages and rates. Ry Age 76:315-16 F 2 '24
Rate increases and group changes are proposed at I.C.C. hearing. J. C. Chatfield. map Nat Pet N 16:24+ Je 11 '24
Rate readjustment resolution fails. Ry Age 76:1517-18 Je 14 '24
Rate readjustment resolution passed. Ry Age 78:323-4 Ja 31 '25
Rate regulation not needed now; editorial. Ry R 77:706-7 N 7 '25
Rate structure investigation. Ry Age 78: 791-2, 885-6 Mr 21, Ap 4 '25; Ry R 76:583 Mr 21 '25
Rate structure investigation; editorial. Ry Age 78:818 Mr 28 '25
Readjusting rates according to prices. Ry Age 76:1348-9 Je 7 '24
Readjustment of relative freight rate schedules; report of Chamber of commerce committee; abstracts. Ry R 73:789-91, 946-9 D 1, 29 '23; Ry Age 75:967 N 24 '23; Comm & Fin Chr 117:2400-1 D 1 '23
Recapture clause sustained by Supreme court. Ry Age 76:191-2 Ja 12 '24; Same abr. Ry R 74:105-6 Ja 12 '24
Reductions in rates since July 1, 1922. Ry Age 76:1369-70 Je 7 '24
Refiners win point on proportional rates at Fort Worth hearing. Nat Pet N 16:35-6 N 5 '24
Regulation of rates. Ry Age 79:169-70 Jl 25 '25
Report of N.P.O. & V.A. committee on transportation and classification. Oil Paint & Drug Rep 106:58-9 O 29 '24
Report of N.P.O. & V.A. committee on transportation and classification. Oil Paint & Drug Rep 108:69-70 N 5 '25
Report of N.W.D.A. committee on transportation. Oil Paint & Drug Rep 106:50-1 O 1 '24
Report of Railway and utility commissioners' committee on railroad rates. Ry Age 75: 1118-19 D 15 '23
Report on divisions of joint rates from the annual report of the Interstate commerce commission. Ry R 73:862-3 D 15 '23
Revenue needs of western roads. Ry Age 78: 1023-4 Ap 25 '25; Excerpt. Ry R 76:787-8 Ap 25 '25
Revision of freight rates in Southeastern territory ordered by Inter-state commerce commission. Comm & Fin Chr 121:803 Ag 15 '25
Scientific adjustment of freight rates. T. C. Powell. Ry R 77:712-13 N 7 '25
Security holders urge rate raise. Ry Age 79: 524-8 S 19 '25
Senate committee proposes reduction in agricultural rates. Ry Age 76:850-1 Mr 29 '24
Short line roads petition the Commission for better divisions. Ry R 74:777-8 Ap 26 '24
Snare of preferential export rail rates as a device to aid government shipping. S. G. Riggs. Annalist 23:369 Mr 24 '24
South protests mileage rates. Iron Tr R 77: 1004 O 15 '25
Southern rates to be revised. Iron Tr R 77: 406-7 Ag 13 '25
Southern roads allowed higher divisions. Ry Age 78:464 F 21 '25
Standard of New Jersey wins fight on rates to North Carolina. Nat Pet N 17:27 Jl 22 '25
Suggestions as to intent of Hoch-Smith resolution. Ry Age 78:1224-5 My 16 '25
Suggestions for rate readjustment. Ry Age 78:1268-72 My 23 '25
Tearing up the business map; how unwise rate regulation is remaking our trade geography. E: A. Bradford. Annalist 23:316+ Mr 10 '24
Testimony before Senate committee on modification of section 15a. D. Willard. Ry R 74: 694-6 Ap 12 '24; Same. Ry Age 76:939-41 Ap 12 '24; Excerpts. Comm & Fin Chr 118: 1871 Ap 19 '24
Through rates to Ohio and southeast goal since Indiana victory. J. C. Chatfield. Nat Pet N 17:67+ Jl 15 '25
Unusual conditions warrant high rail rates on gilsonite. Eng N 95:55 Jl 9 '25
Value for rate making. Ry Age 75:1211-12 D 29 '23
Wallace urges rate reduction. Ry Age 75:1112 D 15 '23
Western press and the rate case. Ry Age 79:640-1 O 10 '25
Western railways state five per cent increase satisfactory. Ry R 77:293-4 Ag 22 '25
Western rate case explained. C. B. Fletcher. Ry R 77:588-9 O 17 '25
Western rate hearing. Ry R 77:384-5, 422-3 S 12-19 '25; Ry Age 79:394, 473-7, 847-8 Ag 29, S 12, N 7 '25
Western roads ask increase in revenues. Ry Age 78:1138 My 9 '25; Ry R 76:865-6 My 9 '25
Western roads ask livestock rate increases. Ry Age 78:1648-50 Je 27 '25
What is a freight rate—and why. R. S. Henry. il Nation's Business 12:30-2 O '24
What other industries consider a fair return. D: Friday. chart Ry Age 76:1081-3 My 3 '24
What part of the freight burden is borne by the farm? S. Anderson. Am Bankers Assn J 16:421-2+ Ja '24; Same. Econ W n s 27: 116-18 Ja 26 '24
Why freight rates on different commodities vary. Ry Age 78:1312-13 My 30 '25
Widespread effect of decision by Interstate commerce commission in the Jones & Laughlin case. Iron Age 115:1275+ Ap 30 '25
Would leave rate groups as at present and adjust gasoline rates. A. E. Heiss. Nat Pet N 17:30-1 S 9 '25
Zur verkehrslage und zur tarifpolitik der deutschen reichsbahn. Stahl & Eisen 43:1414-16 N 8 '23

See also Express rates; Railroads—Fares; Railway mail service

Potter plan

Potter plan; aids deserving railroads. J. S. Eaton. Iron Tr R 77:692 S 17 '25
Potter plan is declared socialistic or worse. C. B. Fletcher. il Ry R 77:617-21 O 24 '25
Potter rail rate plan. Bradstreet's 53:626 S 26 '25
Railroad conditions; Potter plan. Nat City Bank p 147-50 S '25
Social control of railway earnings in the Potter plan. J. S. Eaton. Annalist 26:115-16 Jl 31 '25
Some questions about the Potter plan. Ry Age 79:300-1 Ag 15 '25

Records

Arguments for and against daily time reports. Ry R 76:514-15 Mr 14 '25

See also Railroads—Forms, blanks, etc.

Reorganization managers

Interstate commerce commission cuts fees of M.-K.-T. reorganization managers and counsel by $864,250 to $1,500,000. Comm & Fin Chr 121:547-50 Ag 1 '25; Ry Age 79: 226-8 Ag 1 '25; Ry R 77:181 Ag 1 '25

Repair shops

See Railroads—Shops

Roadmasters

Report on the roadmaster's responsibility for the promotion of proper relations with the public. Ry Age 79:571-3 S 26 '25
Responsibilities and duties of the roadmasters. W. G. Besler. Ry Age 77:494-5 S 20 '24

Rolling stock

Can the railways meet the next peak? A. B. Johnson. Ry R 74:338-40 F 23 '24
Current standards in high-class passenger trains. il Ry R 74:149, 265, 467-8, 618, 818; 75:30 Ja 19, F 9, Mr 8, 29, My 3, Jl 5 '24
Economics underlying car maintenance and retirements. L. K. Sillcox. Ry Age 78: 1442-3 Je 13 '25
Equipment repairs burdened railways in 1923. Ry Age 76:739-43 Mr 15 '24

RAILROADS—Rolling stock—*Continued*
Maintenance requirements for the mechanical equipment of a railroad. P. L. Battey. il diags W Soc E J 29:405-15 N '24; Same cond. Ry R 75:537-40 O 11 '24; Excerpts. Am Mach 61:583-4 O 9 '24
Summary of equipment purchases during 1924. Ry R 76:91-3 Ja 3 '25
Tendencies in equipment design. il Ry Age 78:40-3 Ja 3 '25
Year's tendencies in equipment design. il Ry Age 76:32-3 Ja 5 '24

See also Baggage and express cars; Cars; Cars, Caboose; Dining cars; Freight cars; Locomotives; Motor cars (railroad); Postal cars; Refrigerator cars; Sleeping cars; Tank cars

Roundhouses

See Roundhouses

Safety devices and measures

Accident prevention methods and results; a brief resumé of the railroad safety work of the Delaware and Hudson company. J: E. Long. Safety Eng 48:7-10 Jl '24
American railway association Safety division 4th annual meeting, Salt Lake City, Utah. Ry Age 77:27-9 Jl 5 '24
Best methods of preventing employe accidents in yards. J. C. Kinton. Safety Eng 49: 267 Je '25
Better management through cooperation in safety. H: Bruere. Nat Safety N 10:23-4 D '24
Close up of Pullman safety. G: E. Wallis. il Nat Safety N 8:9-12 D '23
D.M. & N. betters safety record. Nat Safety N 8:38 O '23
How accidents to employes may be reduced. Ry R 77:625-7 O 24 '25; Ry Age 79:769 O 24 '25
Message on safety broadcasted. T: P. Brennan. Ry R 73:881-2 D 15 '23
New call to the railroad. A. H. Smith. Nat Safety N 8:7-8 O '23
Northern Pacific builds fences to detect rock slides. C. A. Christofferson. il diag Ry Age 79:151 Jl 18 '25; Same. Eng & Contr (G C) 64:904 O 21 '25
Protecting oil sidings from stray currents. Ry R 74:502-3 Mr 15 '24
Railroad accident prevention work. C. R. Gray. Safety Eng 48:114-16 S '24
Railroad safety—past, present and future. T: H. Carrow. Nat Safety N 12:19-21+ N '25
Railroads adopt year 'round safety program. R. Scott. il Nat Safety N 11:27 Je '25
Railroads participate in Safety congress. il Ry Age 77:647-9 O 11 '24
Railroad's responsibility for employee safety. L. G. Bentley. Nat Safety N 8:45-6 O '23
Railroads unite in safety efforts. R. Scott. Nat Safety N 12:15 S '25; Same. Ry R 77: 322 Ag 29 '25
Report on prevention of accidents. Ry Age 76:1822-3 Je 28 '24
Results of 13 ½ years of safety work on the C. & N.W. Ry. Ry R 74:1050-1 Je 7 '24
Safety as a builder of morale. F. W. Mitchell. Ry Mech Eng 98:150-1 Mr '24
Safety campaigns on Long Island R. R. achieve noteworthy results. Ry R 76:580-1 Mr 21 '25
Safety council holds annual congress at Cleveland. Ry Age 79:615-18 O 3 '25
Safety drives on the Baltimore & Ohio R.R. il diag Ry R 75:1030-1 D 27 '24
Safety education of the Union Pacific. L. F. Creagan. Ry Age 76:457-8 F 23 '24
Safety sequel to the driving of the golden spike; Union Pacific railroad. G. E. Wallis. il Nat Safety N 10:9-14 O '24
United States safety appliances. H. S. Brautigam. 232p Simmons-Boardman pub. co., New York '24
Value of proper maintenance of equipment. W. J. Patterson. Ry Age 78:1152-3 My 9 '25
Ways and means to prevent accidents in the maintenance of equipment and stores department. A. C. Hinckley. Ry Age 78:1153-4 My 9 '25

See also Air brakes; Brakes; Car couplings; Derails; Guard rails; Railroads—Automatic stop; Railroads—Fires and fire protection; Railroads—Signals; Railroads, Industrial—Safety devices and measures; *also* American railway association—Safety section; Bureau for the safe transportation of explosives and other dangerous articles; Interstate commerce commission—Bureau of safety

Sanitation

Sanitary inspection and testing laboratory, St Louis Southwestern lines. Ry R 76:571-2 Mr 21 '25

Schedules

Report on maintenance of manifest and time freight schedules. Ry Age 76:1819-20 Je 28 '24; Same. Ry R 75:165-6 Ag 2 '24

Scrap material

Burlington dismantles cars at Eola scrap dock. il diag Ry Mech Eng 98:477-9 Ag '24
Buying on Iron Age quotations upheld. Iron Age 114:251-2 Jl 31 '24
C.B. & O. builds modern reclamation plant. il diags plans Ry Age 76:919-23 Ap 12 '24
Central of Georgia reclaims metal car roofs. W. H. Harrison. il diags Ry Mech Eng 98: 329-32 Je '24
Disposition of discarded material. H. C. Stevens. il Ry R 75:87-91 Jl 19 '24
Enormous savings in railroad scrap; Pacific system of the Southern Pacific saves $2,500,000 net in 1923. Eng & Contr (Ry) 62:881 O 15 '24
Interesting design of logging car; use of reclaimed material. il diags Ry R 75:92-4 Jl 19 '24
John Dick investigates reclamation; story. F. M. A'Hearn. il Am Mach 63:219-21 Ag 6 '25
Lackawanna builds and reclaims frogs and switches. W. W. Baxter. il plan Ry R 77: 414-20 S 19 '25
Pennsylvania realizes almost $13,000,000 from scrap sales in 1923. Ry R 75:963 D 13 '24
Railroad scrap offerings are varied. A. C. Mann. Iron Tr R 75:1640 D 18 '24
R.R. scrap reclaiming. E. C. Kreutzberg. il Iron Tr R 77:617-18 S 10 '25
Reclaiming scrap on the Santa Fé. R. K. Graham. il Am Mach 62:421-3 Mr 12 '25
Reclamation of air brake material. A. Skinner. il Ry R 74:1022-4 Je 7 '24
Reclamation of car journal packing. G. C: Hoey. il diags Ry Mech Eng 99:219-21 Ap '25
Reclamation on the Southern Pacific. E. J. Becker. Am Mach 60:132 Ja 24 '24
Saving dollars by salving scrap. C: W. Geiger. il Sci Am 130:242 Ap '24
Scrap control on the Chicago Great Western. J. L. Feemster. il Ry Age 79:721-2 O 17 '25
Scrapping steel cars by electric arc process. A. M. Candy. il Ry Mech Eng 98:217-19 Ap '24
$612,955 saved by waste reclamation; Southern Pacific shops. A. S. Kelligon. il Management & Adm 9:457-60 My '25
Some details of a reclamation plant for miscellaneous equipment. R. K. Graham. il Ind Eng 82:21-3+ Ja '24
Southern Pacific saves over two million on scrap. Ry Age 77:148 Jl 26 '24
Waste renovating plant at Beech Grove, Ind.; reclaiming journal box packing. il diag plan Ry R 73:931-5 D 29 '23

See also Electric railroads—Scrap material; Rails, Used

Securities

Atchison common—its earning power and value. P. Gourrich. Annalist 25:351-2 Mr 9 '25

RAILROADS—Securities—*Continued*
Business and bonds; some simple tests of safety. F. Escher. Burroughs Clearing House 8:52-3+ Mr '24
Chamber of commerce reports on transportation. Eng N 91:974-6 D 13 '23
Chicago & Eastern Illinois railway securities. Moody's Inv Serv 16:399 O 30 '24
Cleveland Cincinnati Chicago & St Louis Ry. European 4% loan of 1910 payable in francs, in currency of country in which demanded. Comm & Fin Chr 117:2291 N 24 '23
Colorado & Southern railway securities, Texas & Pacific railway company securities and Missouri Pacific railroad securities. Moody's Inv Serv 16:208 My 22 '24
Commissioner Eastman, of Inter-state commerce commission, advocates competitive bidding for railroad securities—dissents from majority members' approval in case of New York Central issue. Comm & Fin Chr 120:2770 My 30 '25
Comparison of similarly secured railroad bonds. Moody's Inv Serv 17:260 Ag 6 '25
Competitive bidding for securities again suggested. Ry Age 76:923-4 Ap 12 '24
Course of prices in 1924 at the New York stock exchange. Comm & Fin Chr 120:163-80 Ja 10 '25
Course of prices of railroad and miscellaneous stocks and bonds at the New York stock exchange, 1923. Comm & Fin Chr 118:40-55 Ja 5 '24
Cuba northern railways co. equip. 6½, 1925-32 and United railways of Havana equip. 7½s, 1936. Moody's Inv Serv 16:343 S 11 '24
Customer ownership—solution of many railway problems. L. F. Wiegand. Ry Age 77:31 Jl 5 '24
Educational institutions large holders of railway securities. Ry Age 78:1044 Ap 25 '25
Employees and management, partners. Ry Age 78:1260-2 My 23 '25; Discussion. J. C. Harvard. 79:6 Jl 4 '25
Erie, New York, New Haven & Hartford, & Southern railway securities. Moody's Inv Serv 16:59 F 7 '24
General quotations of bonds and stocks. Published in monthly Bank and quotation section of Commercial and financial chronicle
How to select bonds. F. J. Lisman. Forbes 14: 120-1, 628; 15:250 Ap 26, Ag 15, N 15 '24
How to select bonds; a comparison of the bond issues of Union Pacific and St Louis-San Francisco. F. J. Lisman. Forbes 14:515 Jl 19 '24
Insurance companies and the railroads. Spectator 113:28 D 25 '24
Inter-state commerce commission's order directing sale of bonds of Chicago Union station co. through competitive bids. Comm & Fin Chr 118:1345-6 Mr 22 '24; Excerpt. Ry Age 76:754 Mr 15 '24; Discussion. H: S. Sturgis. 76:825 Mr 29 '24
Investing in railroad bonds. J: Moody. Forbes 15:286-8+ D 1 '24
Investing in railroad stocks. J: Moody. Forbes 15:347-9+ D 15 '24
New Haven sells bonds to patrons. Ry Age 78:465-7 F 21 '25
New York, New Haven & Hartford railroad company; Carolina, Clinchfield & Ohio railway company. Moody's Inv Serv 16:263 Jl 3 '24
Opportunities for investors. H. J. Keating. Forbes 16:490-1 Jl 1 '25
Opportunities for investors. R. V. Sykes. Forbes 14:447+ Jl 5 '24
Present rail market presents close analogy to that of 1901-02. R. V. Sykes. Forbes 15:364-5 D 15 '24
Promising outlook and better technical position of market make rails attractive. R. V. Sykes. Forbes 16:60-1 Ap 15 '25
Proposed Nickel Plate consolidation. Moody's Inv Serv 16:295, 336 Jl 31, S 4 '24
Railroad financing by sales of new stock. F. J. Deesen. Annalist 25:319+ Mr 2 '25
Railroad guaranteed stocks that offer advantage over prime investment bonds. R. V. Sykes. Forbes 13:402+ Ja 5 '24
Railroad ownership and control by employees. J. P. Muller. Ry Age 77:681-2 O 18 '24
Railroad securities of promise. Moody's Inv Serv 16:139-40 Ap 3 '24
Railroad shares. Moody's Inv Serv 17:353-4 O 29 '25
Railroad stocks in the present bull market. H. Hughes. Annalist 26:477 O 16 '25
Report of I.B.A. railroad securities committee. Comm & Fin Chr 119:1457-8 S 27 '24; Same. Ry Age 77:582-4 O 4 '24
Rise in railroad stocks mainly sound. G. R. Paul. Annalist 24:638 D 15 '24
Stockholders as a good-will asset. F. Snow. Annalist 25:648 My 11 '25
Stocks and bonds of railroad companies in United States and territories, Canada, Mexico and Cuba; Railway and industrial compendium [formerly Railway, industrial and public utility section]. Comm & Fin Chr 119:7-130 sec 2 N 29 '24 [issued twice a year on the last Saturday of May and November]
Tax-free railroad bonds. Moody's Inv Serv 16: 79 F 21 '24
Three groups of railroad bonds for investment or speculation. R. V. Sykes. Forbes 13:782-3 Mr 29 '24
Traffic density best test of railroad bond values. W: M. Meredith. Annalist 24:702-3 D 29 '24
What customer ownership can do for the railroads. O. W. Erringer. Ry Age 75:946 N 24 '23
Wider diffusion of railway securities. Ry Age 78:1254-5 My 23 '25
Will railroad stocks rise this year? G. G. Munn. Forbes 13:769-72+ Mr 29 '24

Service

Malaria control program Missouri Pacific R.R. H. W. Van Hovenberg. il Ry R 77: 22-3 Jl 4 '25

Shops

A.R.A. report on paint shop and equipment. Ry R 77:425 S 19 '25
A. R. A. report on the design of shops and engine terminals. Ry Age 78:1548-50 Je 20 '25; Ry R 76:1157-63 Je 20 '25; Ry Mech Eng 99:410-16 Jl '25
A.R.E.A. committee report on general layouts and designs of car shops. Ry R 76:510-13 Mr 14 '25
Analyzing shop output and costs. J. E. Slater. Ry R 76:648-51, 698-701 Ap 4-11 '25; Same cond. Ry Age 78:507-11 F 28 '25
Arc welding and cutting in railroad shops. A. M. Candy. il Elec J 21:273-5 Je '24
Car building program in a railroad shop; Pere Marquette Ry. constructs refrigerator cars in well-planned production schedule. il diags Ry R 74:1177-85 Je 21 '24
Car shop facilities, equipment and practices. H. W. Williams. Ry Mech Eng 98:93-4 F '24
Car shop practice. Railway training institute, Chicago '25
Central of Georgia coach shops have efficient layout. il diags plans Ry Age 78:923-8 Ap 11 '25
Compact shop and terminal plant for a small railroad; Lake Superior & Ishpeming layout at Marquette. il diags plan Ry Age 78: 1463-5 Je 13 '25
Constructive study of railroad car repairs. il diag plans Ry R 74:989-99 Je 7 '24
Cooperation in the Baltimore & Ohio railroad shops. Monthly Labor R 18:1058-61 My '24
Cutting costs in the Soo line repair shops. H. Campbell. il Am Mach 60:37-40 Ja 10 '24
D.L. & W. coach maintenance at Hoboken, N.J. il diags Ry Mech Eng 99:280-3 My '25
D. & R. G. W. new car repair facilities. il diags Ry Mech Eng 98:540-5 S '24
D. & R.G.W.R.R. constructing five new shops. il map Ry R 74:642, 643-4 Ap 5 '24
Denver & Rio Grande Western rebuilds shops. il diags plans Ry Age 76:1193-1200 My 17 '24
Elgin, Joliet & Eastern builds half million dollar car shop. il diags plan Ry Age 78: 1315-18 My 30 '25

RAILROADS—Shops—*Continued*
Employing mechanical aid in shop accounting. D. S. Treat. Ry R 77:286-9 Ag 22 '25
Foreman and his responsibility. Ry Mech Eng 99:360-2, 496-8, 543-4, 610-11, 681-2 Je, Ag-N '25; Discussion. 99:492-6, 554-6, 608-9, 679-81, 746-7 Ag-D '25
Getting the most out of your machine tool dollar. F. H. Colvin. Am Mach 63:417-19 S 10 '25
Good and bad things in the railroad shop. D. B. Wedge. Am Mach 61:140 Jl 24 '24
Good railway shop in the South; the Macon shops. F. H. Colvin. il Am Mach 61:5-6 Jl 3 '24
Graphic method of checking car construction. chart Ry Age 76:560 Mr 8 '24
Great Northern railway shop kinks. H. Campbell. il diags Am Mach 60:239-42 F 14 '24
Grinding in the railroad shops. H. Campbell. il Am Mach 59:861-4 D 13 '23; Discussion. 60: 60, 402 Ja 10, Mr 13 '24
Grinding practice in railroad shops. M. B. Richardson. il Ry Mech Eng 98:344-8 Je '24
How forgings are produced in railroad shops. E. Nilsson. il diags Ry R 77:227-30 Ag 15 '25
How the Grand Rapids shops were modernized. il plans Ry Age 76:1497-1502 Je 14 '24
Identification of material handling costs develops unusual possibilities. il plan Ry R 75: 706-14 N 8 '24
Improvement in minor shop practices. il Ry R 73:843-4 D 8 '23
John Dick visits a railway shop. F. M. A'Hearn. Am Mach 62:167-9 Ja 22 '25
Kansas City Southern enlarges its main shops at Pittsburg, Kan. il plan Ry Age 76:1807-11 Je 28 '24
Kinks from a Texas railway shop. H. Campbell. il Am Mach 61:795-7 N 20 '24
Lackawanna builds and reclaims frogs and switches. W. W. Baxter. il plan Ry R 77: 414-20 S 19 '25
Machine shop practice. 416p Railway training institute, Chicago '25
Maintenance of rolling stock on New England railroads. E. Sheldon. il Am Mach 62:221-4, 269-71, 313-16, 351-5, 645-8 F 5-26, Ap 23 '25
Maintenance requirements for the mechanical equipment of a railroad. P. L. Battey. il diags W Soc E J 29:405-15 N '24
Meanest job in the back-shop. B. O. Server. il Am Mach 63:472 S 17 '25
Modern freight car repair shop; Southern plant at Finley. J. M. Plaskitt. il diag plans Ry Mech Eng 99:333-41 Je '25
Monon shows proficiency in handling car material. il Ry Age 79:366-8 Ag 22 '25
New method of analyzing shop requirements. P. L. Battey. Ry Age 77:543-6 S 27 '24
New passenger car repair shops and stores buildings for Wabash railway at Decatur, Ill. il diags plans Ry R 76:257-67 F 7 '25
New Wabash coach shops marked by effective use of space; repair facilities at Decatur, Ill., also include a large storehouse. il diag plan Ry Age 78:269-72 Ja 24 '25
One million man-hours without an accident in the Colonie shops of the Delaware and Hudson railroad. Safety Eng 49:169-70 Ap '25
Orderliness in shop yards. il Ry R 75:741-2 N 8 '24
Pennsylvania builds modern steel car shops. il diags plans Ry Age 76:1085-8 My 3 '24
Pere Marquette Ry. enlarges its Wyoming shops. il diag plans Ry R 74:1108-19 Je 14 '24
Planning a construction program. Ry R 75:210-12 Ag 9 '24
Planning department for railroad shops. M. H. Williams. Ry Mech Eng 98:106-7 F '24
Progressive system of freight car repairs. F. A. Starr. diag Ry Mech Eng 99:629-33 O '25; Same. Ry R 77:700-3 N 7 '25; Discussion. Ry Mech Eng 99:709-10 N '25
Proper training of shop supervisory forces. L. L. W. Baldwin. Ry R 74:1256-8 Je 28 '24; Same. Ry Age 76:1627-30 Je 17 '24
Railroad shop problems. F. C. Hudson. Am Mach 63:14 Jl 2 '25
Railroad shops of Argentina. G: S. Brady. il Am Mach 62:681-4 Ap 30 '25
Rock Island builds passenger car repair shops. W. W. Baxter. il plans Ry R 77:1-5 Jl 4 '25
Safety first competition. H. L. Needham. il Ry Mech Eng 99:626 O '25
Safety methods and results in D. & H. shops. J. E. Long. Nat Safety N 10:17-19 Jl '24
Safety work in the car department. W. A. Clark. il Ry Mech Eng 98:744-7 D '24
St Paul cuts shop power cost $70,000 by turbine installation. il Ry Age 79:407-8 Ag 29 '25
Shop and terminal construction in 1923. Ry Mech Eng 98:107-9 F '24
Shop councils develop practical co-operation. Ry Age 77:153-5 Jl 26 '24
Shop transformation at Kenton, Ohio, T. & O. C. Ry. plan Ry R 76:653 Ap 4 '25
$612,955 saved by waste reclamation; Southern Pacific shops. A. S. Kelligon. il Management & Adm 9:457-60 My '25
Some questions in modern shop design. E. Wanamaker. Ry Mech Eng 98:486-8 Ag '24
Southern increases its car repair facilities. A. B. Brown. il plans Ry Mech Eng 99:699-704 N '25
Southern Pacific lines extending repair facilities. il diags plans Ry R 74:881-4 My 17 '24
Southern railway completing important new construction at Atlanta. il Manuf Rec 87: 76 Mr 12 '25
Southern railway opens new shops at Birmingham. il diags plans Ry R 76:20-8 Ja 3 '25; Excerpts. Manuf Rec 87:86-7 Je 18 '25
Southern's new shops have efficient layout. il diags plans Ry Age 77:1159-64 D 27 '24
Standardized shop work at Topeka. F. H. Colvin. Am Mach 61:63-4 Jl 10 '24
Store delivery of material to users at shops. J. E. Peery. il Ry R 75:155-9 Ag 2 '24
Straight line passenger car repair shops. L. Richardson. plans Ry Age 77:1088-90 D 13 '24; Same. Ry 75:949-52 D 13 '24; Same. Ry Mech Eng 99:97-9 F '25
Suggestions for improving shop management. F. J. Borer. Ry Mech Eng 98:39-40 Ja '24
Transportation of material in the Roanoke shops. J. M. Thomas. il Ry R 74:1126-30 Je 14 '24
Two vitally important developments; abstract. R. V. Wright. Ry Age 79:513-15 S 19 '25
Union Pacific builds large shops of timber and sheet iron. il diags plan Ry Age 78:823-8 Mr 28 '25
Visit to a well organized railroad blacksmith shop. il plans Ry R 75:271-7, 355-61 Ag 23, S 6 '24
We ask again what's wrong with the railroad shops? E. F. DuBrul. Am Mach 62: 641-2 Ap 23 '25

See also Electric railroads—Shops; Freight cars—Repair; Locomotive shops; Locomotive terminals; Railroads—Contract work; Roundhouses

Equipment

Application of micrometers in railway shops. M. H. Williams. il diags Ry Mech Eng 98: 481-5, 553-8, 615-18 Ag-O '24
Applying corrugated steel ends to box cars. il Ry Mech Eng 99:638 O '25
Big Four railroad reduces power costs. il plans Power 62:554-6 O 13 '25
Birmingham shops of the Southern railway system. H. Campbell. il Am Mach 62:733-6 My 7 '25
C.B. & Q. shops at West Burlington. H. Campbell. il diags Am Mach 61:905-9, 989-92; 62:3-5 D 11, 25 '24-Ja 1 '25
Devices used in a Southern Pacific shop. H. Campbell. il diags Am Mach 61:415-18 S 11 '24; Discussion. C. G. Williams. 62:509 Mr 26 '25
Does it pay to install modern shop machinery? C. A. Shaffer. il Ry Mech Eng 98: 325-8 Je '24
Economy in tool standardization. E. J. McKernan. Ry R 77:598-9 O 17 '25
Effective methods in car maintenance work. il Ry R 76:857-60 My 9 '25

RAILROADS—Shops—Equipment—*Continued*
Efficient tools used at Milwaukee car shops. C. Petran. il Ry Mech Eng 97:827-9 D '23
English development of railroad grinding equipment. W. F. Sandmann. il Am Mach 61: 601-2 O 16 '24
Fixtures for machining shoes and wedges. F. C. Hudson. il diags Am Mach 63:495-7 S 24 '25
Growing use of milling machines in the railroad shop. M. H. Westbrook. il Am Mach 62:271-2 F 12 '25
Handy devices used in the Santa Fe railroad shops. il Am Mach 63:740-1 N 5 '25
Jigs and fixtures. F. U. Baker. diags Ry Mech Eng 98:691-2 N '24
Knee-type milling machines in railway shops. il Am Mach 62:811 My 21 '25
Little Rock shop methods. H. Campbell. il Am Mach 63:55-8 Jl 9 '25
Machine equipment for the toolroom. C. A. Shaffer. Ry Mech Eng 99:640-2 O '25; Same. Ry R 77:710-11 N 7 '25; Same. Mach 32:313-14 D '25
Machine tools purchased during 1924. il Ry Age 78:101-3 Ja 3 '25
Maintenance of rolling stock on New England railroads. E. Sheldon. il Am Mach 63:721-4, 769-72 N 5-12 '25
Maintenance requirements for the mechanical equipment of a railroad. P. L. Battey. il diags W Soc E J 29:405-15 N '24; Same cond. Ry R 75:537-40 O 11 '24; Excerpts. Am Mach 61:583-4 O 9 '24
Milling machines adaptable for railroad shops. il Ry Mech Eng 99:663-4 O '25
Milling machines in railway shops. L. R. Gurley. il Ry Mech Eng 99:342-50 Je '25
Purchased power saves $15,000 in railroad shops. J. G. Horgan. Elec W 86:907-8 O 31 '25
Railroad shop equipment and machine tools. Ry Age 76:1604-6 Je 16 '24
Railroads greatest buyers of machine tools during 1923. Ry R 74:217-18 F 2 '24
Report on shop jigs and devices. il Ry Mech Eng 99:642-4, 777-9 O, D '25
St Augustine shops of the Florida East Coast railway. F. C. Hudson. il Am Mach 61:47-8 Jl 10 '24
Shaper designed for the railroad shop. il Ry Mech Eng 99:385-6 Je '25
Shops of the L. & N.R.R. at Albany, Alabama. H. Campbell. il Am Mach 63:21-4 Jl 2 '25
Southern Pacific repairs. H. Campbell. il Am Mach 60:869-72 Je 12 '24
Standardization of railroad shop tools. Mach 32:200 N '25
Straight line or spot system of car repairs. il diag Ry R 77:548-53 O 10 '25
Turret tooling for two railroad jobs. diags Am Mach 63:468 S 17 '25
Welding equipment in a railroad shop. J. S. Heaton. il diag Ry Mech Eng 98:430-3 Jl '24
Welding in railroad shop practice. il Ry Mech Eng 99:580-3 S '25
Year's purchases of machine tools by the railroads. L. R. Gurley. Ry Mech Eng 99:46-56 Ja '25

See also Locomotive shops—Equipment

Lighting

Illumination as a factor in shop morale and efficiency. il Ry R 74:815-18 My 3 '24
Illumination of railroad shops and roundhouses. diags Ry R 75:915-19 D 6 '24

Signals

American railway association signal section 16th annual meeting. Ry R 76:572-5, 579-80 Mr 21 '25
A.R.A. signal section meeting, West Baden, Ind., Sept. 29-Oct. 1. G: E. Boyd. Ry R 77: 515-17, 558-9 O 3-10 '25
Application of alternating current supply with battery reserve to signal system. H. G. Morgan. Ry R 74:736-8 Ap 19 '24
Are wayside signals necessary with train control? Ry R 76:896-8 My 16 '25
Automatic signaling on the Harrow and Rickmansworth joint line. il Engineer 139:466 Ap 24 '25
Automatic signals for a railroad grade crossing. il diags Ry Age 76:735-8 Mr 15 '24
Automatic substations for railway signaling and train control. H. M. Jacobs. il diags Gen Elec R 28:640-9 S '25
Block signal mileage; statement by I.C.C. Ry Age 77:489-90 S 20 '24; Ry R 75:469 S 27 '24
Block signal mileage; statement by I.C.C. Ry Age 79:817-18 O 31 '25
Cash saving accomplished by signals on the B. & O. J. C. Hoffman. Ry Age 76:973-4 Ap 19 '24
Clamping device for attaching blue flag to the rail. C: Nugent. il Ry Mech Eng 98:537 S '24
Color-position-light signals, Baltimore & Ohio. diags Ry Age 78:456-7 F 21 '25
Congestion relieved by signaling on the B. & M. J. D. Bourne. Ry Age 76:971-2 Ap 19 '24
Continuous train control with cab signals. E. Von Bergen. Ry Age 79:555-7 S 26 '25; Same. Ry Mech Eng 99:613-16 O '25
Controlled manual block with train control. il diags Ry Age 77:843-7 N 8 '24
Directing train movements by signal indication; digest of eighteen papers presenting various phases of this subject. Ry Age 78: 785-90, 839-43 Mr 21-28 '25
Dispatching trains by signal indication. S. Ennes. Ry R 76:734-7 Ap 18 '25
Double-wire system of mechanical signalling. R. S. Griffiths. Engineering 119:814-15 Je 26 '25
Ealing signal cabin; new electrically-operated apparatus. il Elec R (Lond) 96:1034-5 Je 26 '25
Einrichtungen zur befehlsübermittlung beim verschiebedienst. il diag Zeit Ver Deutsch Ing 69:398 Mr 28 '25
Electric signal machines; abstracts. J. Boot. Electrician 92:451 Ap 11 '24; Elec R (Lond) 94:509 Mr 28 '24
Electric switch lighting in yards on N.C. & St. L. G: S. Pflasterer. plan Ry Age 76:1510 Je 14 '24
Electrical signalling equipment on railways. V. Mitchell. diags Inst E E J 62:954-6 N '24
Five-fold highway crossing warning. il diag Ry Age 77:561 S 27 '24; Same. Eng & Contr (R & S) 62:1207-8 D 3 '24
Fixed signals; report to the International railway congress. Engineering 120:9-10 Jl 3 '25
Great Northern signals main line. il map plan Ry Age 79:171-5 Jl 25 '25
Highway signals in Acworth. Ry Age 76:179 Ja 12 '24
How signals have relieved congestion. Ry Age 76:1203-4 My 17 '24
Increasing track capacity by signaling. G: S. Pflasterer. Ry Age 76:972-3 Ap 19 '24
Interlocking system at Chicago terminal embraces new features. W. S. Lacher. il Ry Age 79:23-4 Jl 4 '25
Light reflecting prism for railroad and crossing signs. il Ry Age 77:69 Jl 12 '24; Same. Eng & Contr (R & S) 62:544 S 3 '24
Missouri Pacific to install automatic block signals. Ry R 77:31-2 Jl 4 '25
New application of the induction motor to signaling devices. P. X. Rice. 25p (Eng. exp. sta. bul. 31) Pennsylvania state college, State College '24
New development in long time burning switch lamps. il Ry Age 79:187-8 Jl 25 '25
New interlocking plant at busy terminal; alternating current controlled electro-pneumatic plant at Camden, N.J. il plan Ry R 75:861-6 N 29 '24
New signals on Burlington expedite traffic. il diags Ry Age 76:1260-2 My 24 '24
Northern Pacific main lines 76 per cent signaled. C. A. Christofferson. il chart diags map Ry Age 78:543-8 Mr 7 '25
Operating features of electric interlocking. il diags Ry R 74:510-15 Mr 15 '24
Railway track signalling and safety appliances at the British Empire exhibition. diags Engineer 138:490-1 O 31 '24
Remote control of signals and derails on Norfolk & Western Ry. Ry R 75:469-70 S 27 '24

RAILROADS—Signals—*Continued*

La répétition des signaux sur les locomotives de la Compagnie de l'Est. Marty and Picard. diags Génie Civil 86:563-5 Je 6 '25

Report of the committee on economics of railway signaling. Ry Age 79:619-22; Discussion. 622 O 3 '25

Santa Fe installs 115 miles of light signals. E. Winans. il Ry Age 76:843-4 Mr 29 '24

Signal and interlocking construction in 1924. J: H. Dunn. il Ry Age 78:104-8+ Ja 3 '25

Signal construction shows marked increase. K. E. Kellenberger. il Ry Age 76:59-68 Ja 5 '24

Signal lighting—a special problem. L. S. Dunham. Gen Elec R 28:689-91 O '25

Signaling at the age of maturity. S. N. Wight. diags Ry R 76:818-21 My 2 '25

Signaling two tracks to capacity. H. G. Morgan. il diag plan Ry Age 78:733-5 Mr 14 '25

Signals and the saving of fuel; abstracts. B. J. Schwendt. il Ry Age 78:1319-20 My 30 '25; Ry R 76:1081-4 Je 13 '25

Three-position railway signalling; I.R.S.E. committee's report. Elec R (Lond) 95:997-8 D 26 '24

Train control discussed by signal section of A.R.A. Ry Age 77:547-50 S 27 '24; Ry R 75: 461-3 S 27 '24

Train operation by signal indication only. M. A. Baird. il Ry R 76:942-3 My 23 '25

Train operation by signal indication only. W. F. Follet. plan Ry R 77:247-8 Ag 15 '25

Train operation by signal indication only. H. W. Griffin. diag Ry R 76:765-8 Ap 25 '25

Train operation by signal indication only. E. Hanson. diag Ry R 76:1023-5 Je 6 '25

Train operation by signal indication only. J. B. Latimer. Ry R 76:907-9 My 16 '25

Train operation by signal indication only. G: S. Pflasterer. il map plans Ry R 77:387-90 S 12 '25

Train operation by signal indication only. W. M. Post. plans Ry R 76:850-5 My 9 '25; Same abr. Ry Age 78:881-4 Ap 4 '25

Train operation by signal indication only. J. E. Saunders. il diags Ry R 76:1107-10 Je 13 '25

Trains orders eliminated by signals on busy single track. E. B. DeMeritt. il plan Ry Age 78:1021-2 Ap 25 '25; Same. Ry R 77:326-7 Ag 29 '25

Union continuous train control systems. il Ry Age 77:413-16 S 6 '24

Unsatisfactory crossing whistle. Ry Age 75: 417, 1045-6, 1144, 1190; 76:177, 274 S 8, D 8, 22-29 '23, Ja 12, 26 '24

Why continue flagging in automatic territory? J. L. White. Ry Age 77:149-51 Jl 26 '24

Windmills generate signal current. il Ry R 77:715 N 7 '25

Winking signals facilitate yard switching. M. G. McInerney. plan Ry Age 77:191-2 Ag 2 '24

Working of single lines of railway. diag Engineer 137:568 My 23 '24

See also Electric railroads—Signals; Railroads—Automatic stop; Railroads—Telegraph; Track circuits

Signs

Painting roadway signs. C: K. Collenburg. Eng & Contr (Ry) 61:1108-9 My 21 '24

Snow protection and removal

All fixed for a hard winter. il Sci Am 129:397 D '23

New snow melting device for switches. il Ry R 75:595-6 O 18 '24

Problems of winter operation in the Sierra Nevadas. T: Ahern. il diag Ry Age 78:425-7 F 14 '25; Excerpts. Eng & Contr (G C) 63: 1345-6 Je 17 '25

Snow blowing and melting device. Ry R 76: 581-2 Mr 21 '25

Snow fighting organization and methods at a Chicago terminal. J. J. Desmond. Eng & Contr (Ry) 62:1309-12 D 17 '24

Societies

See Railroad associations

Station service

Station agent's blue book. O: B. Kirkpatrick. 523p Kirkpatrick pub. co., Chicago '25

Stations

Canadian Pacific Ry. completes new station at Three Rivers, Quebec. il plan Ry R 76: 387-8 F 28 '25

Chicago Union station is formally opened. G: E. Boyd. il Ry R 77:121-5 Jl 25 '25

Foundation tests by Chicago union station company. J. D'Esposito. il diags W Soc E J 29:33-44 F '24; Same. Eng & Contr (Bldgs) 61:669-80 Mr 26 '24

I. C. C. defines its policy on large union stations. Ry Age 79:219-20 Ag 1 '25

Large timber roof trusses in Ogden union station. il diags Eng N 94:938-9 Je 4 '25

New station at St Paul nearly completed. G: E. Boyd. il plans Ry R 76:1201-4 Je 27 '25

New union station, Bethlehem, Pa. il plan Ry R 75:55-6 Jl 12 '24

Ogden, Utah, has new union station. il Ry Age 78:234-5 Ja 17 '25

Ogden, Utah, union station opened to the public. Ry R 75:942-3 D 13 '24

Passenger movements at railway stations. Eng N 92:724 Ap 24 '24

Progress on the Chicago union station. il plans Ry R 74:416-22 Mr 8 '24

Progress on the union station at St Paul, Minn. il diags plan Eng N 92:186-8 Ja 31 '24

Project for lake front development of the city of Chicago; central station. E. Saarinen. diags plan Am Arch 124:506-9 D 5 '23

Proper size and arrangement of passenger facilities; report of A.R.E.A. committee. Ry R 76:623-4 Mr 28 '25

Railroad provides facilities for football crowds. O. T. Dunn. il diags Ry Age 78:169-73 Ja 10 '25

St Paul union depot completes third section. G. W. Wilsey. il plan Ry Age 76:827-30 Mr 29 '24

Station designed for occasional crowds at Champaign. il diag plan Eng N 93:294-5 Ag 21 '24

Union station meetings of Western society of engineers. W Soc E J 30:[current news] 140-3 O '25

Union station, Toronto. il diag Arch Forum 40:101-4, pl 33-8 Mr '24

See also Railroads—Terminals; Railroads—Trainsheds

Lighting

Lighting of new street station, L.M. & S. railway, Birmingham. il plan Gas J (Lond) 168:416-18 N 12 '24

Lighting of railway stations. J. F. Caine and E. A. Marx. Gas J (Lond) 165:767 Mr 26 '24

Manual of lighting practice for railroads. Ry R 77:663-4 O 31 '25

Statistics

Application of graphic representation to railway performance. C: Weiss. Ry R 76:1104-6 Je 13 '25

Are we deserting the rails? Nation's Business 12:31 D '24

Burden of unnecessary reports. Ry Age 76: 727-9 Mr 15 '24

Class I railroad reports show earnings last year less than in 1923. Am Mach 62:332a F 19 '25

Enlarging the practical use of statistical information. C. B. Fletcher. Ry R 75:667-9 N 1 '24

Growth curves and railway traffic. L. E. Peabody. Am Statis Assn J 19:476-83 D '24

Necessity for different forms of cost statistics. O. O. Carr. Ry R 76:345-6 F 21 '25

Official railway statistics in Great Britain. C. W. Hurcomb. Roy Statis Soc J 88:335-66; Discussion. 366-78 My '25

Operating efficiency of railroads of United States during 1924 results in saving of approximately $600,000,000 to shippers. Comm & Fin Chr 120:49-50 Ja 3 '25

RAILROADS—Statistics—*Continued*
Operating statistics of large steam roads—selected items for the month of September, 1923, compared with September, 1922, for roads with annual operating revenues about $25,000,000. Ry Age 75:984-5 N 24 '23 [continued monthly]
Railroads and other industries compared. Eng N 92:412 Mr 6 '24
Railway operations. Survey of Cur Business 30:168-9 F '24 [continued quarterly]
Railway statistics for nineteen twenty-three. J. H. Parmelee. Ry Age 76:46-9 Ja 5 '24
Railways of the world compared. Ry Age 78: 1429-30 Je 13 '25
Record year for railroads. Bradstreet's 52:6-7 Ja 5 '24
Report on accounting, distribution and statistics. Ry Age 76:1515-17 Je 14 '24
Revenues and expenses of railways; month of December and twelve months of calendar year 1923; tabulation. Ry Age 76:468-73 F 23 '24 [continued monthly]
Statistical analysis of the past year. C. B. Fletcher. Ry R 76:74-5 Ja 3 '25
Statistical review of the railroad year 1924. J. H. Parmelee. Ry Age 78:52-7+ Ja 3 '25
Statistics as an aid to railroad operation. J. E. Slater. Ry R 77:101-3, 201-4 Jl 18, Ag 8 '25
Statistics of railways of class I, United States (1916-1924). 10 sheets U.S. Bur. of railway econ., Washington, D.C. '25
When is a locomotive held for repairs? Ry Age 76:1246-7 My 24 '24

See also Cars—Statistics; Freight cars—Statistics; Locomotives—Statistics; Railroads—Finance; Railroads—Mileage

Storehouses

Carolina Clinchfield & Ohio store at Erwin, Tenn. il diags plan Ry R 76:299-303 F 14 '25
Norfolk & Western builds large oilhouse. J. W. Wade and L. L. Kelly. il plan Ry Age 79:479-81 S 12 '25
Wabash coach shops marked by effective use of space; repair facilities at Decatur, Ill., also include a large storehouse. il diag plan Ry Age 78:269-72 Ja 24 '25; Ry R 76:257-67 F 7 '25
Wabash Ry. completes new store and oil house at Decatur, Ill. il diags plan Ry R 76:103-7 Ja 10 '25

Stores systems

American railway association Purchases and stores division 5th convention, Atlantic City, N.J. Ry R 74:1204-11 Je 21 '24
American railway association Purchases and stores division 6th annual convention, St Louis, May 19-21. Ry Age 78:1275-84 My 23 '25; Ry R 76:929-34+ My 23 '25
A. R. A. report on stores delivery of material. Ry Age 76:1698-1700; Discussion. 1700-1 Je 18 '24
A. R. A. stores department book of rules. Ry Age 76:1649-51 Je 17 '24
Building of a stores department. il Ry R 75: 619-23 O 25 '24
Burlington stores department at Havelock, Nebraska. il Ry R 74:791-6 My 3 '24
C.R.I. & P.Ry. stores activities at Shawnee, Oklahoma. il Ry R 74:926-7 My 24 '24
Checking the efficiency of stores operations. Ry Age 78:1652 Je 27 '25
Control of material in railroad operation. A. Lazarus. Ind Management 70:198-204 O '25
Duties and opportunities of a traveling storekeeper. W. W. Williams. Ry R 75:6-7 Jl 5 '24
Duties of a traveling storekeeper. W. Dixon. Ry Age 76:1658-9 Je 17 '24; Same. Ry R 75: 124-5 Jl 26 '24
Duties of a traveling storekeeper. L. T. Hoffman. Ry Age 76:1701-2 Je 18 '24
Economies in distributing forest products. H. R. Condon. Ry Age 76:1692-3 Je 18 '24
Evolution of a stores department. O. Nelson. il Ry R 74:1169-74 Je 21 '24
Great Northern stores officers discuss their problems. Ry Age 78:1629-31 Je 27 '25
Handling $12,000,000 worth of stores a year. il E. Harty. Management & Adm 8:287-8 S '24
How materials are delivered on the Burlington. H. R. Duncan. Ry R 77:284-5 Ag 22 '25; Same cond. Ry Age 78:1377-8 Je 6 '25
Improving the morale in stores organization. W. J. McKaig. Ry Age 79:79-80 Jl 11 '25
Increasing stores efficiency. W. W. Tirrell. Ry Age 79:515-16 S 19 '25
Lack of uniformity in control of line stocks. W. D. Stokes. il Ry R 76:886-9 My 16 '25
Metropolitan life insurance company looks into stores practices on railroads. Ry Age 79: 613-14 O 3 '25
Necessity for a material classification. W. L. Hunker. Ry R 74:1107-8 Je 14 '24
Pennsylvania follows broad plan in stores department. C. D. Young. Ry Age 78:977-80 Ap 18 '25; Same. il Ry R 76:898-903 My 16 '25
Problems and needs of store departments. J. G. Stuart. Ry Age 79:747-8 O 24 '25
Procedure for material stores accounts payable. J. C. McNeil. Ry Age 77:429-33 S 19 '25
Railways' material investment. C. L. Thompson. Ry R 74:757-9 Ap 26 '24
Relation of stores and mechanical departments. F. M. A'Hearn. il Ry Mech Eng 97: 834-8 D '23
Relation of stores to other departments. U. K. Hall. Ry Age 79:309-10 Ag 15 '25
Report of the committee on stores department book of rules. Ry R 76:929-30+ My 23 '25
Report on unit piling as a numerical marking system. Ry R 74:1209-10 Je 21 '24
Resourcefulness seen in stores developments on Monon. il Ry Age 79:395-8 Ag 29 '25
S. P. Houston store has many fine features. il diags plans Ry R 74:1094-1103 Je 14 '24
Shop delivery proving economical. J. T. Clancy. Ry Age 77:340 Ag 23 '24
Soo line has unique stores organization. il chart plan Ry R 75:943-8 D 13 '24
Store delivery of material to users at shops. J. E. Peery. il Ry R 75:155-9 Ag 2 '24
Store methods on the Norfolk and Western. J. W. Wade. il Ry Age 77:605-8 O 4 '24
Stores delivery of material, Northern Pacific Ry. C. C. Kyle. Ry R 74:965 My 31 '24
Stores department activities on M.-K.-T. lines. il Ry R 75:495-500 O 4 '24
Union Pacific centralizes control of stores operations. il map Ry Age 78:1146-50, 1205-9, 1332-6 My 9-16, 30 '25
What the stores expect of the purchasing department. R. C. Harris. Ry R 76:953 My 23 '25; Same cond. Ry Age 78:1280 My 23 '25

See also Railroads—Equipment and supplies; Railroads—Purchasing; Railroads—Supply trains

Suburban traffic

Is it safe to spend money on suburban traffic? Ry Age 79:259-60 Ag 8 '25
Suburban services; report to the International railway congress. Engineer 139:677 Je 19 '25; Electrician 95:8-9 Jl 3 '25; Engineering 120:40 Jl 10 '25; Ry Age 79:135-6 Jl 18 '25
Suburban traffic. Eng & Contr (Ry) 61:810 Ap 16 '24

Supplies

See Railroad supplies industry; Railroads—Equipment and supplies

Supply trains

A. R. A. report on supply train operation. Ry Age 76:1693-5 Je 18 '24
Shipping company material. Ry R 74:655-6 Ap 5 '24
Supply car operation on Great Northern. G. R. Watland. Ry Age 77:292 Ag 16 '24

Surveying

See Railroad surveying

RAILROADS—*Continued*

Switches, frogs, etc.

Finishing steel track equipment. F. B. Jacobs. il Iron Tr R 74:1701-2 Je 26 '24; Same. Foundry 52:937 D 1 '24

Fundamental principles in switch work. R. White. Ry R 77:321-2, 347-8, 383-4, 436-7, 518-19, 557-8 Ag 29-S 19, O 3-10 '25

Improved Mack reversible switch point protector. Ry R 76:164, 545-6 Ja 17, Mr 14 '25

Lackawanna builds and reclaims frogs and switches. W. W. Baxter. il plan Ry R 77: 414-20 S 19 '25

Laying out crossovers with a tape. A. G. Bennett. Eng N 92:369-70 F 28 '24

Spring switches reduce delays on Santa Fe. D. K. Crawford. il diag plans Ry Age 76:1313-14 My 31 '24; Same. Eng & Contr (Ry) 62:425-6 Ag 20 '24

Wheel guiding flange frogs for St. Louis terminal. diags Eng N 92:1093-4 Je 26 '24

See also Railroads—Crossings

Switching

C. B. & Q. controls switches remotely. il plans Ry Age 79:305-7 Ag 15 '25

Economic value of remote operation of switches. diags Ry R 73:751-4 N 24 '23

Interpretations to per diem rule 5 and the code of switching reclaim rules. Ry R 75: 995 D 20 '24

Mechanical adjustment of grade for gravity switching. il diags Eng N 93:260-2 Ag 14 '24

Proposed catapult switching yard. F. W. Eagelston. diags plan Eng & Contr (Ry) 61:409-14 F 20 '24

Unprofitable switching and reconsigning charges. Ry R 75:369-70 S 6 '24

Taxation

Chamber of commerce reports on transportation. Eng N 91:974-6 D 13 '23

Largest taxes on record paid by railways in 1924. Ry R 77:28 Jl 4 '25

Railroad taxation. Index p 11-12 Mr '24; Same. Econ W n s. 27:487 Ap 5 '24

Railroads' share in local taxation under government ownership. Ry R 75:838-9 N 22 '24

Tax burden upon American railroads in 1924. Econ W n s 30:47 Jl 11 '25

Tremendous growth of taxation. L. A. Downs. Ry R 76:874 My 9 '25

Telegraph

American railway association telegraph and telephone section meets in New Orleans. Ry Age 79:811-13 O 31 '25

Automatic printing telegraph for intra-city business. il map Ry Age 78:1095-6 My 2 '25

Communication in railroad operation. I. C. Forshee. Am Inst E E J 44:451-7 My '25; Discussion. 44:777-8 Jl '25

Largest railway telegraph office opened at Topeka. il Ry Age 79:279-80 Ag 8 '25

Telegraph and telephone progress. R. S. Kenrick. Ry Age 78:109-11 Ja 3 '25

Telegraphy and telephony with railroad applications. C: S. Rhoads. 518p Simmons-Boardman pub. co., New York '24

Telephone and telegraph construction. J. H. Dunn. il Ry Age 76:73-5 Ja 5 '24

Wire communication on the Pennsylvania. Ry Age 78:1528 Je 20 '25

See also Radio telegraph on railroads

Telegraphers

Decisions of the Railroad labor board. Monthly Labor R 19:606-9 S '24

Telephone

American railway association telegraph and telephone section meets in New Orleans. Ry Age 79:811-13 O 31 '25

Communication in railroad operation. I. C. Forshee. Am Inst E E J 44:451-7 My '25; Discussion. 44:777-8 Jl '25

How American engineers are making the world's railroads safer. W. T. Charles. il Duns' Int R 45:45-7 Mr '25

Long distance telephone circuits for railway service. Ry Age 76:271 Ja 26 '24

Radio has possibilities in railroad operation; carrier current for communication and control. G. Y. Allen. il Ry R 76:1214-16 Je 27 '25

Telegraph and telephone construction. J. H. Dunn. il Ry Age 76:73-5 Ja 5 '24

Telegraph and telephone progress. R. S. Kenrick. Ry Age 78:109-11 Ja 3 '25

Telephone rapidly replacing telegraph. Ry R 77:672-3 O 31 '25

Telephone train dispatching; some recent developments in circuit arrangements analysed. W. H. Capen. diags Electrician 91: 661-2 D 14 '23

Telephony on trains. Electrician 95:11 Jl 3 '25

Virginian railway electrification opened; carrier current communication between locomotives. il Elec Ry J 66:539-41 O 3 '25

Wire communication on the Pennsylvania. Ry Age 78:1528 Je 20 '25

See also Radio telephone on railroads

Terminals

Chicago union station forms double-end terminal. il diags plans Eng N 91:928-34 D 6 '23

Clifton Forge terminal involves heavy work. il map Ry Age 76:365-7 F 9 '24

Compact shop and terminal plant for a small railroad; Lake Superior & Ishpeming layout at Marquette. il diags plan Ry Age 78:1463-5 Je 13 '25

Decision in Los Angeles Union station case. Ry Age 76:984-5 Ap 19 '24

Design of Illinois Central terminal at Chicago introduces many problems. W. P. Cronican. plan Ry Age 76:447-9 F 23 '24

Double-deck freight terminal for Monon line. il diags Eng N 94:354-6 F 26 '25

Harbor equipment of the Pennsylvania railroad. Eng & Contr (Ry) 62:1118-20 N 19 '24

Improved efficiency in terminal operation. R. L. Scott. Ry R 74:640-2 Ap 5 '24

Improvement of efficiency on terminals. C: Burlingame. Ry R 75:7-12 Jl 5 '24

Is terminal development a technical problem? J. R. Bibbins. Mech Eng 46:162-3 Mr '24; Same. Eng & Contr (Ry) 61:847-8 Ap 16 '24

Laying out track plans of large passenger terminal; St Paul union station. plan Eng N 95:384-5 S 3 '25

Layout and design of large modern freight terminal; Pennsylvania R.R. freighthouse at Detroit. il plans Eng N 93:227-30 Ag 7 '24

New C. & O. Ry. yard at Clifton Forge, Va. il diags plans Ry R 74:241-8 F 9 '24; Same. Eng & Contr (Ry) 61:821-8 Ap 16 '24

New ferry terminal includes advanced designs; Reading installation at Camden, N.J. F. Jasperson. il plan Ry Age 76:1249-52 My 24 '24

New marine terminal building, Canadian Pacific Ry. il Ry R 75:541-2 O 11 '24

Norfolk & Western builds freight station at Bluefield. L. L. Kelly. il diag plan Ry Age 79:663-6 O 10 '25

Noteworthy passenger terminal completed at Chicago. W. S. Lacher. il diags plans Ry Age 79:7-28 Jl 4 '25

La nouvelle gare de triage de Lille-la-Délivrance. A. Moutier. diags plans Soc Ing Civils Bul 77:575-88, pl 77 O '24

Pennsylvania R.R. presents plans for Philadelphia station. il plans Eng N 94:898-9 My 28 '25

Rail terminals rebuilt at Pueblo; properties of Denver & Rio Grande Western reconstructed to make room for large flood prevention channel. O. L. Hoebel. il diags maps Ry Age 79:705-10 O 17 '25

Railway and marine terminals: 1924 projects. Eng N 94:86-9 Ja 8 '25

Railway borne commerce in Chicago. E. H. Lee. Ry R 76:443-7 Mr 7 '25; Same cond. Ry Age 78:561-3 Mr 7 '25

Reading company opens new terminal at Camden, N.J. il diags plan Ry R 74:871-6 My 17 '24; Same. Eng & Contr (Ry) 61: 1332-8 Je 18 '24

RAILROADS—Terminals—*Continued*

Sante Fé freight terminal and warehouses at Dallas. il diags plans Eng N 93:942-5 D 11 '24

Santa Fe is building large terminal in Dallas. il plan Ry Age 76:419-20 F 16 '24

Solving the city terminal problem. W. H. Lyford. Munic & Co Eng 68:305-15 Je '25

Solving the city terminal problem. T. C. Powell. Munic & Co Eng 69:60-5 Ag '25; Excerpts. Ry Age 78:1467 Je 13 '25

Some phases of the Illinois Central railroad company's lake front improvements and electrification. D. J. Brumley. il diags W Soc E J 30:329-42 Ag '25; Same abr. Eng & Contr (G C) 64:439-46 Ag 19 '25; Abstract. Ry Age 78:736-40 Mr 14 '25; Discussion. W Soc E J 30:342-5 Ag '25

Some problems of railroad transportation. H. W. Thornton. Ry Age 77:779-82 N 1 '24; Excerpts. Ry R 75:769-70 N 8 '24

Some things which the Erie railroad is doing; recent extensions of facilities in New York and Chicago. il Ry R 75:423-30 S 20 '24

Southern railway completing important new construction at Atlanta. il Manuf Rec 87: 76 Mr 12 '25

Study in L.C.L. freight terminal service. il map Ry R 73:747-50 N 24 '23

Study of a large terminal develops basic data. J. R. Bibbins. map plan Ry Age 76:463-5 F 23 '24

Terminal operation. R. L. Scott. Ry R 76:462-3 Mr 7 '25

Terminal operation at Ft. William, Ontario. il plans map Ry R 75:901-7 D 6 '24

Terminal problems of a great industrial center. F. H. Alfred. il Ry R 74:412-15 Mr 8 '24

Union Pacific builds large shops of timber and sheet iron. il diags plan Ry Age 78:823-8 Mr 28 '25

Work progresses on Camden terminal of P. & R. il Eng N 91:1074 D 27 '23

See also Electric railroads—Terminals; Freight houses; Freight subways; Locomotive terminals; Mail terminal buildings; Railroads—Stations; Railroads—Trainsheds; Railroads—Yards; Terminals

Theft losses

Railroad police need automobiles. L. J. Benson. Ry Age 79:388 Ag 29 '25

Work of thieves retarded since 1921. Ry Age 76:1269-70 My 24 '24

Ticket offices

New ticket office of Southern Pacific, at San Francisco, Cal. il Ry R 74:568-9 Mr 22 '24; Ry Age 76:1757-8 Je 21 '24

New ticket office of the Canadian Pacific in Chicago. il Ry R 75:121-2 Jl 26 '24

Tickets

Effect of reduced rate mileage or scrip tickets. Ry Age 77:609-10 O 4 '24

I. C. C. mileage book order nullified. Ry Age 76:288 Ja 26 '24

United States Supreme court sets aside order of Inter-state commerce commission requiring issuance of interchangeable mileage tickets. Comm & Fin Chr 118:628 F 9 '24

Ties

See Railroad ties

Time tables

Popular condensed time-table. L. Michigan. il Ry Age 79:6 Jl 4 '25

Tools

Maintenance of way tools. H. A. Reetz. Ry R 76:861 My 9 '25

See also Railroads—Shops—Equipment

Track

A.R.E.A. rules for guidance of maintenance of way employes. Eng & Contr (Ry) 61:1339-47 Je 18 '24

Application of oil to preserve track; use of the Neafie sprayer to prevent corrosion. Eng & Contr (Ry) 63:170-1 Ja 21 '25; Ry R 77:87-9 Jl 18 '25; Mech Eng 46:632 O '24

Ballast toe curb installed on Southern Pacific line. il Eng N 92:943 My 29 '24

Double-tracking and relocation on the Santa Fé Ry. il map Eng N 94:382-8 Mr 5 '25

Economical utilization of track labor. G. M. O'Rourke. Eng & Contr (Ry) 62:161-3 Jl 16 '24

Effect of heavier power and increased tonnage upon roadbed previously stable. J. R. Hoagland and others. Eng & Contr (Ry) 61:653-4 Mr 19 '24

Effect of salt on track heaving. Eng & Contr (Ry) 63:568 Mr 18 '25

Fall track work. C. H. Carpenter. Eng & Contr (Ry) 63:382 F 18 '25

Fences and oil used to keep sand from drifting on tracks. il Eng N 92:414-15 Mr 6 '24

Fourth progress report of the special committee to report on stresses in railroad track. diags Am Soc C E Pro 51:469-635 Ap '25

Gage changed on 46 mile line in 8 hrs.; conversion of D. & R. G. W. branch from standard to narrow gage. Eng & Contr (Ry) 62:1352-3 D 17 '24

Is winter M. of W. force reduction necessary? L. E. Keller. Ry Age 76:732-3 Mr 15 '24; Same. Monthly Labor R 19:156-8 Jl '24

Lack of uniformity in control of line stocks. W. D. Stokes. il Ry R 76:886-9 My 16 '25

Laying a mile of rail per hour under traffic. il Ry Age 75:1047-50 D 8 '23; Same. Eng & Contr (Ry) 60:1293-6 D 19 '23

Laying 100-lb. rail under traffic at rate of a mile an hour. il Eng & Contr (Ry) 62:617-22 S 17 '24

Laying rail in winter. il Ry R 76:679-85 Ap 11 '25

Lehigh uses compressed air for many sorts of track work. W. F. Nichols. Eng & Contr (Ry) 62:879-81 O 15 '24

Madden rail layer equipped with gas engine. il Eng & Contr (Ry) 63:142 Ja 21 '25

Maintaining a high degree of line and surface. W. J. Backes. Ry Age 77:501-2 S 20 '24

Maintenance methods on the Lehigh Valley R. R. G. L. Moore. il Ry R 74:101-3 Ja 12 '24

Maintenance of way methods on Lehigh Valley R.R. G. L. Moore. Eng & Contr (Ry) 63:663-7 Mr 18 '25; Excerpts. Ry Age 77:497-8 S 20 '24; Ry R 75:824-6 N 22 '24

Method of renewing track pans. Eng & Contr (Ry) 60:1075 N 21 '23

New track maintenance system on Paris & Orleans Ry. Eng N 93:747 N 6 '24

Noteworthy passenger terminal completed at Chicago. W. S. Lacher. Ry Age 79:19-21 Jl 4 '25

Nouvelle méthode d'entretien des voies sur les lignes secondaires du réseau de Paris-Orléans. Génie Civil 84:409-10 Ap 26 '24

Permanent roadbed. F. H. Alfred. Eng & Contr (G C) 64:170-1 Jl 15 '25

Permanent track centers. C. A. Morse. Eng & Contr (Ry) 62:1312 D 17 '24

Photographic chart illustrates standard method of rail cutting. il Ry R 74:216-17 F 2 '24

Rail laying at rate at 2½ miles per day. P. Petri. il Eng & Contr (G C) 63:1350-2 Je 17 '25

Railroad prospects for the next twenty-five years. Eng & Contr (Ry) 63:336-7 F 18 '25

Report of A.R.E.A. committee on track. Ry R 76:566-7 Mr 21 '25; Eng N 94:484-5 Mr 19 '25

Report of committee on track, A. R. E. A. Ry R 74:523-4 Mr 15 '24

Report of special committee on stresses in railroad track. Ry R 74:515 Mr 15 '24

Report of the special committee of A.R.E.A. on stresses in railroad track. Ry R 76:532-3 Mr 14 '25

Report on possibilities of winter track work. Ry Age 77:503 S 20 '24

Report on rail laying and ballasting in multiple track territory. Ry Age 77:499-500 S 20 '24

RAILROADS—Track—*Continued*
Report on the programming of section work. Ry Age 79:573-4 S 26 '25
Roadbed drainage and crossing of Chicago sewer; I.C.R.R. diags plans Eng N 92:410-12 Mr 6 '24
Section foreman tells how he plans work. E. W. Arnold. Eng & Contr (Ry) 63:168 Ja 21 '25
Securing the maximum life of rail in track. B. M. Cheney. Eng & Contr (Ry) 62:129-33 Jl 16 '24
Speed records in rail laying. C: Weiss. il Ry R 76:497-9 Mr 14 '25
Tile lines cure a wet cut. il Ry Age 79:399-400 Ag 29 '25; Same. Eng & Contr (G C) 64:657-8 S 16 '25
Track ballasting on C.P.R. Eng & Contr (G C) 63:1128-9 My 20 '25
Track inspection on the Erie R.R. il diags plan Ry R 74:503-8 Mr 15 '24
Track protection in blasting. H. H. Hummer. il Eng & Contr (G C) 64:874 O 21 '25
Track; report to the International railway congress. Engineer 139:628-9; 140:14 Je 5, Jl 3 '25; Engineering 120:8-9 Jl 3 '25; Ry R 77:161-4, 249-51 Ag 1, 15 '25
Track skeletonizing machine. il Eng & Contr (Equip R) 64:750 S 30 '25
Tracklaying on Kentucky line of Illinois Central R.R. il Eng N 94:392-3 Mr 5 '25
Treatment of soft roadbed. A. N. Reece. Ry Age 79:574-5 S 26 '25; Same cond. Eng & Contr (G C) 64:917-18 O 21 '25
Trials of concrete roadbed on Northern Pacific Ry. Eng N 92:858 My 15 '24
Underpass shifted without interruption to rail or highway traffic. il Eng N 95:601 O 8 '25
Use of dragline in track work. Eng & Contr (Ry) 62:150-2 Jl 16 '24
Use of "shoo-fly" tracks in eliminating tunnels; Southern Pacific Ry. diag Eng N 93: 801-2 N 13 '24

See also Ballast; Electric railroads—Track; Grade crossings; Mine tracks; Rail bonds; Rail joints; Railroad ties; Railroads—Construction; Railroads—Curves and turnouts; Railroads—Grades; Railroads—Snow protection and removal; Railroads—Switches, frogs, etc.; Railroads—Weed removal; Rails

History

How present day track design was developed. G: E. Boyd. Ry R 77:471-5 S 26 '25

Track depression

C. & N.W. Ry. depresses busy main line at Milwaukee. il diags Eng N 92:570-4 Ap 3 '24
Grade separation at Detroit, Grand Trunk railway. diags Eng N 93:60-2 Jl 10 '24
New concrete cribbing looks like solid wall. A. N. Laird. il diags Ry Age 78:1034-5 Ap 25 '25

See also Grade crossing elimination

Track elevation

B. & O. R.R. completes track elevation at Pittsburgh. W. M. Ray. il diag Eng N 94: 397-8 Mr 5 '25
Gravity material supply cuts handling costs. il Eng N 93:420-2 S 11 '24
Important track elevation work completed at Elyria, Ohio. il plans Ry R 75:312-15 Ag 30 '24; Same. Eng & Contr (Ry) 62:1099-1103 N 19 '24
Large concrete plant employed on track elevation work. il diags Ry Age 78:781-4 Mr 21 '25; Excerpt. Eng & Contr (G C) 63:1353-4 Je 17 '25
Pennsylvania completes new four-track work at Pittsburgh. il diags map plan Ry Age 77: 7-11 Jl 5 '24
Precast units in railway grade elimination work. il Concrete 27:16-17 Jl '25
Rogers Park track elevation, C.M. & St P.Ry. T. H. Strate. il diags plans Ry R 74:140-5 Ja 19 '24
Track elevation at Minneapolis, N.P.Ry. il diags plans Ry R 74:801-3 My 3 '24

See also Grade crossing elimination

Traffic

After 1893 and 1920—a remarkable parallel. Ry Age 79:464 S 12 '25
Forecasting future volume of railway traffic. J: B. Blood. Ry Age 76:369-71 F 9 '24; Discussion. 76:490-1, 899-900 Mr 1, Ap 5 '24
Forecasting traffic volume. R. H. Aishton. Ry Age 76:450-1 F 23 '24
Fundamentals of traffic. G. G. Huebner. 276p Traffic service corporation, Chicago '25
Railway freight and passenger traffic forecasts. L. A. Abbot. Ry Age 77:243-7 Ag 9 '24
Railway statistics for nineteen twenty-three. J. H. Parmelee. Ry Age 76:46-9 Ja 5 '24

See also Freight car service; Railroads—Freight; Railroads—Passenger traffic; Railroads—Suburban traffic

Train control

See Railroads—Automatic stop and train control

Train dispatching

L'application du dispatching-system en France. Génie Civil 85:380-1 O 25 '24
Despatching or controlling systems; report to the International railway congress. Engineer 139:677 Je 19 '25; Engineering 120:68 Jl 17 '25; Ry Age 79:136 Jl 18 '25
Directing train movements by signal indication; digest of eighteen papers presenting various phases of this subject. Ry Age 78: 785-90, 839-43 Mr 21-28 '25
Dispatching trains by signal indication. S. Ennes. Ry R 76:734-7 Ap 18 '25
Four-year test of the "19" train-order. H. C. Cross. Ry Age 79:408-9 Ag 29 '25; Discussion. J. L. Coss. 79:837-8 N 7 '25
How American engineers are making the world's railroads safer. W. T. Charles. il Dun's Int R 45:45-7 Mr '25
Moving trains without wire service. il Ry Age 78:363-4 F 7 '25
Signaling two tracks to capacity. H. G. Morgan. il diag plan Ry Age 78:733-5 Mr 14 '25
Simple rules for diverting traffic while laying rail. P. J. McAndrews. Ry Age 78:1204 My 16 '25
Train operation by signal indication only. M. A. Baird. il Ry R 76:942-3 My 23 '25
Train operation by signal indication only. W. F. Follet. plan Ry R 77:247-8 Ag 15 '25
Train operation by signal indication only. H. W. Griffin. diag Ry R 76:765-8 Ag 25 '25
Train operation by signal indication only. E. Hanson. diag Ry R 76:1023-5 Je 6 '25
Train operation by signal indication only. J. B. Latimer. Ry R 76:907-9 My 16 '25
Train operation by signal indication only. G: S. Pflasterer. il map plans Ry R 77:387-90 S 12 '25
Train operation by signal indication only. W. M. Post. plans Ry R 76:850-5 My 9 '25; Same abr. Ry Age 78:881-4 Ap 4 '25
Train operation by signal indication only. J. E. Saunders. il diags Ry R 76:1107-10 Je 13 '25
Trains orders eliminated by signals on busy single track. E. B. DeMeritt. il plan Ry Age 78:1021-2 Ap 25 '25; Same. Ry R 77:326-7 Ag 29 '25

Train load

Adjusting train tonnage. Ry Age 78:1533-4 Je 20 '25
Heavier freight trains reduce railway costs. Ry R 77:521-2 O 3 '25
Report of maximum trainloads; abstracts. Ry Age 76:1821-2 Je 28 '24; Ry R 75:205-8 Ag 9 '24

Train speed

Relation between boiler scale and train speed. P. M. LaBach. chart Ry Age 76:1279-80 My 24 '24
Train speeds in America. A. L. Bostwick. Ry Age 76:1329-30 My 31 '24

RAILROADS—Train speed—*Continued*
With the "limited"; some startling facts and figures regarding our fastest and farthest-traveled trains. C: W. Stokes. il Sci Am 131: 14+ Jl '24

Trainmen's manuals

Pennsylvania's new rule book. Ry Age 78: 929-31 Ap 11 '25
Rights of trains; a complete analysis of single track standard code rules. H. W. Forman. rev. ed. 608p Simmons-Boardman pub. co., New York '25
Two new train-rule books. Ry Age 78:359-61 F 7 '25

Trains

Business of moving trains at a profit. W. F. Thiehoff. Ry R 75:845-8 N 22 '24; Same cond. Ry Age 77:925-8 N 22 '24
Canadian National railways' passenger trains. il Ry R 75:742-4 N 8 '24
Changes in the standard code of train rules. Ry Age 76:1318 My 31 '24
Classification of through freight trains. E. T. Horn. Ry Age 78:1644-5 Je 27 '25
Committee report on the exclusive use of the 19 order and the abolishment of the 31 order. Ry Age 76:1818 Je 28 '24; Same. Ry R 75:86-7 Jl 19 '24
Cost of freight train delay. Ry R 74:774-5 Ap 26 '24; Ry Age 76:925-6 Ap 12 '24
Economical handling of work trains. Ry R 75: 61-3 Jl 12 '24
Economizing the time of the way freight train. E. F. Ford. il Ry Age 75:1209-10 D 29 '23
Economy of helping trains over ruling grades. O. O. Carr. Ry R 76:113-14 Ja 10 '25
Estimated cost of stopping and starting trains. O. O. Carr. il Ry R 74:807-8 My 3 '24; Same, without table. Eng & Contr (Ry) 62:405-6 Ag 20 '24
Fewer failures to deliver with 19 form. W. T. Quirk. Ry Age 79:363-4 Ag 22 '25; Discussion. W: Nichols. 79:644 O 10 '25
Handling the football traffic at Princeton. J: Barriger. il map Ry Age 75:1009-11 D 1 '23
Heavy traffic demands "19" order. H. G. Duckwitz. Ry Age 79:482-3 S 12 '25
How the "19" order is used exclusively. V. Parvin. Ry Age 78:461-3 F 21 '25
Illinois Central successfully handles large crowd to football game. Ry R 73:678-9 N 10 '23
Means of accelerating freight train movements. B. H. Mann. Ry Age 78:1530-1 Je 20 '25
Mechanical man's part in profitable train handling. E. B. Hall. Ry Age 77:928-9 N 22 '24; Same. Ry R 75:875-7 N 29 '24
New Alton limited operates on fast schedule. il plan Ry Age 77:579-81 O 4 '24
19 form will avoid unnecessary stops. A. G. Smart. Ry Age 79:364-5 Ag 22 '25
"19" order a success on the Rock Island. C. H. Carter. Ry Age 78:992-4 Ap 18 '25
"19" order is safe. J. G. Luhrsen. Ry Age 78: 869 Ap 4 '25
Operating problems under electric motive power. maps Ry R 74:1192-7 Je 21 '24; Excerpts. Elec Ry J 64:56-7 Jl 12 '24
Responsibility of division superintendent in fuel conservation. D. F. Stevens. Ry R 74: 1145-8 Je 14 '24; Same. Ry Age 76:1377-8; Discussion. 1378 Je 7 '24
Some operating phases of maintenance of way. E. T. Howson. Ry Age 75:915-18 N 17 '23
Trans-Canada limited, Canadian Pacific Ry. Ry R 75:724-5 N 8 '24
Why the form-31 should be retained. B. H. McNaney. Ry Age 78:463-4 F 21 '25
"Yet lackest thou one thing;" necessity of considering train dispatchers' needs in connection with increasing line capacity. H. W. Forman. Ry Age 75:1075-6 D 8 '23

See also Freight car service; Railroads—Braking; Railroads—Signals; Railroads—Train load; Railroads—Train speed; Railroads—Work trains; Train resistance

Trainsheds

Compressed-air plant for erecting Chicago trainshed. diags Eng N 93:963-4 D 11 '24
Fans to avoid smoke nuisance in Chicago union station. diags Eng N 92:929-31 My 29 '24
Noteworthy passenger terminal completed at Chicago. W. S. Lacher. il diag Ry Age 79: 17-19 Jl 4 '25
Old steel trainshed replaced by platform shelters. il diag Eng N 94:648-9 Ap 16 '25
Reconstruction of track floor in a railway terminal. diags Eng N 93:350 Ag 28 '24

Valuation

Application of cost depreciation and decretion. M. A. Roby. Ry Age 77:266 Ag 9 '24
Brief filed in behalf of government in proceedings involving recapture of excess earnings case. Comm & Fin Chr 117:2176-9 N 17 '23
Conferences on valuation. Ry Age 77:698 O 18 '24
Depreciation circulars no. 226 and no. 15100. M. A. Roby. Ry Age 76:776 Mr 22 '24
Final valuation of Florida East Coast. Ry Age 76:1097-1100 My 3 '24
Illinois Central tentative valuation. Ry Age 77:639 O 11 '24
Increased appropriation urged for valuation work. Ry Age 77:1127-8 D 20 '24
Nineteen carriers disagree with Commission as to valuation. Ry R 75:488 S 27 '24
Petition of valuation conference denied by I.C.C. Ry Age 75:1071-2 D 8 '23
Present status of federal valuation. Ry Age 78:414-15 F 14 '25
Present status of the valuation work. C. F. Staples. Ry Age 76:35-8 Ja 5 '24
Presidents' conference committee reports progress on valuation. Ry R 76:228-9 Ja 31 '25
Progress in federal valuation. Ry Age 79:714-15 O 17 '25; Eng & Contr (G C) 64:1133-4 N 18 '25
Railroad valuation, a brief survey. W: D. Pence. Eng N 92:406-8 Mr 6 '24
Railroads oppose depreciation rules. Ry Age 75:976-7 N 24 '23
Railroads vs I.C.C. property values. G. G. Munn. Bankers M 109:379-83 S '24
Railway valuation becomes political issue. E. T. Howson. il Ry Age 76:34-5 Ja 5 '24
Railway valuations—unit prices. Comm & Fin Chr 120:1671-2 Ap 4 '25
Recent railway valuations. Eng & Contr (Ry) 61:644 Mr 19 '24
Shipper's interest in depreciation. Ry Age 77: 5, 49, 144, 188, 226, 227-8 Jl 5-12, 26-Ag 9 '24
Southern tentative valuation. Ry Age 79:163-4 Jl 18 '25
Status of I.C.C. valuation work. Ry Age 76: 1381 Je 7 '24
Tentative valuation, Penna. co. Ry Age 77:707 O 18 '24
Tentative valuations are not open to review; abstracts of Supreme court decision. Ry R 76:112-13 Ja 10 '25; Ry Age 78:176 Ja 10 '25
Three radicals' schemes of railroad valuation. Ry Age 76:969 Ap 19 '24
U.S. Supreme court on depreciation. Eng & Contr (Ry) 62:854 O 15 '24
Valuation of the Kansas City Southern. Ry Age 76:1777-82 Je 21 '24
Valuations of railroads of the United States; a brief history of progress and a summary of the present status. Ry R 76:115-21 Ja 10 '25
Value for rate making. Ry Age 75:1211-12 D 29 '23
Your interest in railway valuation. P. S. Krecker. Comm & Fin 13:1218-20 Je 25 '24

Wages

Average daily wage rates of railroad employees on class I carriers, July, 1923. Monthly Labor R 18:1272-6 Je '24
Changes in railroad wages. Comm & Fin Chr 118:5 sec 2 My 31; 119:6+ sec 2 N 29 '24; 120:239-40 sec 2 My 30 '25

RAILROADS—Wages—*Continued*
Concerning railway wages. Ry Age 79:301-2 Ag 15 '25
Co-operative bonus plan adopted by Southern railway. Ry Age 76:554 Mr 8 '24
Eight years' record of wages. Ry Age 76: 916 Ap 12 '24
87,000 railroad employees get 1 to 2 cents an hour wage increase. Comm & Fin Chr 120:414 Ja 24 '25
Employment and earnings of railroad employees, October, 1922, and September and October, 1923. Monthly Labor R 18:122-3 Ja '24 [continued monthly]
English railway wages and earnings, 1923 and 1924. Monthly Labor R 20:62-3 Ja '25
Government statistics of railroad wages, years 1923 and 1924. Ry Age 78:808 Mr 21 '25
Labor board hears clerks' claim for wage increases. Ry Age 77:720 O 18 '24
More about wages and rates. Ry Age 76:402-3 F 16 '24
New York Central raises enginemen's wages. Ry Age 76:294 Ja 26 '24
Railroads—conductors and trainmen; wage increases effective May 1, 1924. Monthly Labor R 18:1292-6 Je '24
Railroads pay higher wages than industries. Ry Age 77:449-51 S 13 '24
Railroads—train-service crews. Monthly Labor R 19:133-6 Jl '24
Railway wages and cost of living. Ry Age 78: 496 F 28 '25
Railway wages and rates. Ry Age 76:315-16 F 2 '24
Significant advance in wages. Ry Age 76: 915-16 Ap 12 '24
Southern employees earn bonus for 1925. Ry Age 78:740 Mr 14 '25
Unjust and unjustifiable flat wage scale. Ry Age 76:318 F 2 '24
Wage reductions—unorganized employees. Monthly Labor R 18:1054-5 My '24
Wage statistics for 1923. Ry Age 76:853 Mr 29 '24
Wages of American railroad workers in 1924 compared with 1914. Econ W n s 28:157-8 Ag 2 '24
Western railways reach wage agreement with conductors and trainmen. Ry R 74:701-2 Ap 12 '24

War measures

See Railroads in war

Water supply

Air lift pumping plant for Southern Pacific co. il plan Eng & Contr (Ry) 62:638-40 S 17 '24
Benefits of better water on M-K-T. J. H. Davidson. il map Ry Age 79:445-7 S 5 '25
Chemical engineering aspects of water treatment for railroads. W. M. Barr. il Am Inst Chem Eng Trans v 16 pt 1:149-61 '24; Same cond. Chem & Met Eng 31:348-51 S 1 '24; Same. Eng & Contr (Ry) 62:867-71 O 15 '24
Cleaning railway water mains yields large returns. C: Haydock. Eng & Contr (Ry) 63:573-9 Mr 18 '25
Comprehensive water supply program. J. W. Porter. il map Ry R 76:217-23 Ja 31 '25
Concrete tanks for railway water service. C. R. Knowles. Eng & Contr (Ry) 60:1078-81 N 21 '23
Government regulation of drinking water supply. Ry R 74:563-4 Mr 22 '24
Increasing use of reservoirs. Ry Age 79:345 Ag 22 '25
New pumping station at Groveland, N.Y., shows low operating costs. H. W. Machamer. il Ry R 77:354-5 S 5 '25
Nine hundred million gallon reservoir for Chicago, Burlington & Quincy at Galesburg, Ill. map Eng & Contr (Ry) 61:818-20 Ap 16 '24
Pennsylvania protects against water shortage at Altoona. C: Haydock. il Ry Age 78: 985-6 Ap 18 '25
Providing a railroad's water supply. R. C. Bardwell. Ry Age 79:517-18 S 19 '25
Railway water supplies for drinking purposes. diags Ry R 76:519-21 Mr 14 '25
Report of A.R.E.A. committee on water service. Ry R 76:527-9 Mr 14 '25
Report on electrically operated pumping plants. Ry Age 79:768 O 24 '25
Treating railway water supplies in Iowa. C. R. Knowles. il Am Water Works Assn J 13:284-92 Mr '25; Excerpts. Eng & Contr (W W) 63:285-9 F 11 '25
Union Pacific water work proves profitable; investigation develops significant facts about long locomotive runs. il charts map Ry Age 77:585-92 O 4 '24; Same cond. Eng & Contr (Ry) 62:1109-17 N 19 '24
Water station and softening plant, Clinton, Illinois. C. R. Knowles. il diags plan Ry R 74:958-62 My 31 '24; Same cond. Ry Age 76:1309-11 My 31 '24

See also Feed water purification

Weed removal

Oil sprayer for fighting weeds. Eng & Contr (R & S) 64:1014 N 4 '25
Railway weeding machine in France. Eng N 94:533 Mr 26 '25
Report on the weeding of tracks. Ry Age 79: 570-1 S 26 '25; Same. Eng & Contr (G C) 64:901-3 O 21 '25
Santa Fe studies weed killing. il Ry Age 78:1223-4 My 16 '25

Winter construction

Laying rail in winter. il Ry R 76:679-85 Ap 11 '25
Report on possibilities of winter track work. Ry Age 77:503 S 20 '24

Work trains

Economical handling of work trains. Ry R 75: 61-3 Jl 12 '24
Motors replace work trains. M. D. Carothers. il Ry Age 78:1042 Ap 25 '25
Report on operation of work trains. Ry R 75:575-7 O 18 '24; Excerpts. Ry Age 77: 495-7 S 20 '24

Yardmasters

Yardmaster—his duties and his problems. T. C. Collins. Ry R 76:358-61 F 21 '25

Yards

Die betriebswissenschaftliche untersuchung der verschiebebahnhöfe. W. Simon-Thomas. diags Zeit Ver Deutsch Ing 68:991-3 S 20 '24
Building the Hudson river connecting railroad. il map plan Eng N 92:108-11 Ja 17 '24
Chesapeake & Ohio completes modern hump yard. il map Ry Age 79:602-6 O 3 '25
Freight yard design for economies of operation; report of A.R.E.A. committee. Ry R 76:685-9 Ap 11 '25
Hump yard operates without car riders. il diag Ry Age 77:895-8 N 15 '24
Michigan Central completes its Niles, Mich., yard. il diags map Ry R 73:791-4 D 1 '23
Michigan Central yard at Toledo expedites interchange. E. R. Lewis. il diags plans Ry Age 78:1509-13 Je 20 '25
Moving the crop, Canadian Pacific railway. E. D. Cotterell. il map Ry R 75:697-700 N 8 '24
New C. & O. Ry. yard at Clifton Forge, Va. il diags plans Ry R 74:241-8 F 9 '24; Same. Eng & Contr (Ry) 61:821-8 Ap 16 '24
New engine terminal of the New York Central railroad at Selkirk, N.Y. il diags plans Ry R 76:426-42 Mr 7 '25
New Illinois Central yard will reduce switching. A. Bernard. Ry Age 76:449 F 23 '24
New Ottawa yard, Pere Marquette R.R. il diag plans Ry R 76:506-9 Mr 14 '25
Pennsylvania's Greenville yard improvement nearing completion. Ry R 75:1035-6 D 27 '24
Portland terminal facilities are modernized. il plan Ry Age 77:879-84 N 15 '24
Progress on Markham yard, Illinois Central. W. P. Cronican; A. Bernard. il diag Ry R 74:439-45 Mr 8 '24; Same. W Soc E J 29:257-64 Je '24; Same. Eng & Contr (Ry) 62:144-9 Jl 16 '24

RAILROADS—Yards—*Continued*
Proposed catapault switching yard. F. W. Eagelston. diags plan Eng & Contr (Ry) 61:409-14 F 20 '24
Report of A.R.E.A. committee on yards and terminals. Ry R 76:564-6 Mr 21 '25; Eng N 94:487 Mr 19 '25
Shunting yards; report to the International railway congress. Engineer 139:676-7 Je 19 '25; Engineering 119:805-6 Je 26 '25
Train movements centrally controlled in gravity yards. il diags Eng & Contr (Ry) 63:143-7 Ja 21 '25
Verbesserung des schwerkraft-verschiebedienstes durch verbesserte bremstechnik. Wenzel. il diags Zeit Ver Deutsch Ing 68: 986-90 S 20 '24

See also Railroads—Switching

Lighting

Electric switch lighting in yards on N.C. & St. L. G: S. Pflasterer. plan Ry Age 76:1510 Je 14 '24
Floodlighting railroad terminals and yards. Elec W 84:21 Jl 5 '24; Same. Eng & Contr (Ry) 62:337-8 O 15 '24
Floodlighting railroad yards. E. G. McAllister. il Elec W 83:1329-32 Je 28 '24

Africa

Development railways. Engineering 117:180-1 F 8 '24
Great Britain's campaign to promote cotton growing and railroad building in British Africa. Econ W n s 28:298-9 Ag 30 '24

See also Railroads—South Africa

Alaska

Alaska railroad. Monthly Labor R 20:1068-70 My '25
Alaska R.R. report made to Interior secretary. Eng N 93:1052 D 25 '24
Traffic conditions on the Alaska R.R. N. W. Smith. Ry R 75:1024-5 D 27 '24

Argentina

Argentine railways. Economist 99:643-4; 101: 610-11 O 25 '24, O 17 '25
Good year for the railways of Argentina. M. T. Meadows. il Ry Age 76:166-7 Ja 5 '24
Great expansion in Argentina. G: S. Brady. il Ry Age 78:140-2 Ja 3 '25
Investments in Latin America; Argentina. F: M. Halsey and C. B. Sherwell. U S Bur For & Dom Com Trade Information Bul 362:28-51 '25
Progress of Argentine state railways. Ry Age 79:680 O 10 '25
Railroad shops of Argentina. G: S. Brady. il Am Mach 62:681-4 Ap 30 '25

See also Railroads—Electrification—Argentina

Australia

Australasian government-owned railways and steamships in 1923-1924. Econ W n s 29:810-11 Je 6 '25
Australian railways doing well. W. H. Newman. il Ry Age 78:151-4 Ja 3 '25
Conditions generally improved in Australia. W. H. Newman. il Ry Age 76:159-62 Ja 5 '24

Austria

Increasing efficiency in Austria. A. Niklitschek. il Ry Age 78:122-4 Ja 3 '25
Railway centenary in Austria. il Engineer 138:696 D 19 '24
Rigid economy the watchword in Austria. A. Niklitchek. il Ry Age 76:134-6 Ja 5 '24
Die sanierung der österreichischen bundesbahnen. Dr. Günther. Zeit Ver Deutsch Ing 68:215-22 Mr 8 '24

See also Railroads—Electrification—Austria; Railroads and state—Austria

Belgium

Physical reconstruction complete in Belgium. R. H. Sheffield. il Ry Age 76:109-12 Ja 5 '24

Bolivia

Atocha-Vollazon Ry. to be completed by 1925. il Ry R 74:433-5 Mr 8 '24
Work progressing on Bolivia's new railway. il Ry Age 75:1005-6 D 1 '23

Brazil

Brazil needs more railways. D. L. Derrom. il Ry Age 78:145-7 Ja 3 '25

See also Railroads—Electrification—Brazil

Canada

Annual report of Canadian railway board. Ry Age 78:761-2 Mr 14 '25
Canada is now more hopeful of the future. J. G. Lyne. il Ry Age 76:39-42 Ja 5 '24
Canada's railway and transportation history. Ry R 75:714-17 N 8 '24
Canadian commission ends the Crow's Nest Pass controversy. Ry R 75:638 O 25 '24; Ry Age 77:744-5 O 25 '24
Canadian National railways complete Longlac-Nakina cutoff. map Eng N 92:764 My 1 '24
Canadian National Rys. completes its Long Lake cut-off. Ry R 74:256-7 F 9 '24
C.N.R. shortens transcontinental line 102 miles. C. S. Gzowski. il map Ry Age 75: 947-50 N 24 '23
Canadian railway situation. E. W. Beatty. Ry Age 77:751-2 O 25 '24; Same. Ry R 75: 637-8 O 25 '24
Canadian railways hold their own. J. G. Lyne. il Ry Age 78:37-9 Ja 3 '25
Canadian railways in 1923. Bradstreet's 52: 222 Ap 5 '24
Canadian railways in 1924. Ry Age 78:806 Mr 21 '25; Ry R 76:584 Mr 21 '25
Canadian Senate considers railway problems. Ry Age 78:1594-5 Je 20 '25
Crow's Nest agreement upheld. Ry Age 78: 577 Mr 7 '25; Ry R 76:480 Mr 7 '25
Extension of Temiskaming & Northern Ontario Ry. il maps Ry R 76:411-22 Mr 7 '25
Fair play for the railways. E. W. Beatty. Can Eng 47:522 N 18 '24
Fifty years of Canadian engineering. H. K. Wicksteed. il Eng N 92:661-3 Ap 17 '24
Future looks brighter for C.N.R.; chance for early adoption of Senate merger. Ry Age 79:521-3 S 19 '25
In the playgrounds of Canada; railroads operate hotels and bungalow camps to serve the tourist's needs. il Ry R 75:717-24 N 8 '24
Larger program of railroad building. C. S. Gzowski. il maps Ry R 75:683-90 N 8 '24
Latest status of the Crow's Nest Pass rates. Ry R 76:169 Ja 17 '25
Merger of Canadian lines recommended by railway committee. Ry R 77:28-9 Jl 4 '25
New Orleans rate law. Ry Age 78:1635-6 Je 27 '25
Problems of Canada; the railway situation. Economist 99:1051-3 D 27 '24
Proposed Abitibi Southern Ry. opens new territory. H: W. Wicksteed. il map Ry R 76: 1003-6 Je 6 '25
Prospects of the Canadian National railways. Ry R 73:876-7 D 15 '23
Railway situation in Canada. E. W. Beatty. Ry R 76:389 F 28 '25
Recent developments on the T. & N.O. railway. S. B. Clement. Can Eng 45:573-7 D 11 '23; Excerpt. Eng & Contr (Ry) 60:1277-82 D 19 '23
Self-insurance scheme of the Canadian National railways. Econ W n s 30:26-7 Jl 4 '25
Speech to shareholders of Canadian Pacific railway. E. W. Beatty. Ry R 76:912-14 My 16 '25
Statistics of Canadian steam railways for the year 1923. Ry R 75:771-2 N 8 '24
Traffic and earnings in Canada for May and first five months. Ry Age 79:243 Ag 1 '25
Transportation and national development. J. G. Sullivan. Can Eng 48:145-6 Ja 20 '25

See also Electric railroads—Canada; Railroads—Electrification—Canada; Railroads and state—Canada; *also* Canadian National railways; Canadian Pacific railway; Hudson Bay railway

RAILROADS—*Continued*

Central America

Central America's largest road American-owned. F. J. Lisman. il map Ry Age 77: 377-80, 417-20 Ag 30-S 6 '24
Railroad construction in Central America. il Eng N 95:198 Jl 30 '25
Railways of Central America and the West Indies. W. R. Long. il diags maps U S Bur For & Dom Com Trade Promotion Ser 5:1-156 '25; Excerpts. Am Mach 62:581-2 Ap 9 '25

Chile

See Railroads—Electrification—Chile

China

China notes. Ry Age 76:352-3, 477, 860, 1228, 1289 F 2, 23, Mr 29, My 17-24 '24
China's lines do well under trying conditions. il map Ry Age 76:151-4 Ja 5 '24
Chinese wars, railways and unity. il Ry R 76:225-8 Ja 31 '25
Conditions improve in China. Ry Age 78: 1108-9 My 2 '25
Early revenue gains by Chinese roads counteracted by war. Ry Age 77:1045-6 D 6 '24
Future of the Chinese Eastern railway. il map Ry R 75:504-7 O 4 '24
Kiaochow Tsinan Ry. under Chinese management. il Ry R 74:759-62 Ap 26 '24
Present railway situation in China. E: A. Simmons. map Ry Age 75:911-12 N 17 '23
Railway system of China. Eng N 95:751 N 5 '25
State department at Washington in note to China insists upon safeguarding of rights of United States interests in Chinese Eastern railway. Comm & Fin Chr 118:3151-2 Je 28 '24
War blights prosperity in China. il Ry Age 78:159-62 Ja 3 '25
War interferes with China's railways. il Ry Age 77:863-4 N 8 '24

Colombia

Building the Amaga railway extension in Colombia. il maps Eng N 95:620-3 O 15 '25
Development slow in Colombia. C. Jackson. il Ry Age 78:143-4 Ja 3 '25

Colorado

Colorado's six-mile tunnel under the Rockies. T. M. Fisher. il Sci Am 129:406 D '23
Country's longest tunnel project; Moffat tunnel through the Colorado Rockies. il diags maps Ry R 74:174-81 Ja 26 '24
Progress on the Moffat tunnel through the Rockies. il Eng N 92:402 Mr 6 '24
Six-mile Moffat tunnel through the Rocky mountains. diags maps Eng N 91:962-5 D 13 '23
Tunneling to empire through continental divide. W. S. Smith. il Forbes 14:428-31 Jl 5 '24

Cuba

Building a railroad under unusual conditions; Cuba railroad. B. B. Shaw. il map Ry Age 79:792-4 O 31 '25
Cuban tours de luxe are planned; new palm-decorated all-Pullman cars. il plans Ry Age 78:217-19 Ja 17 '25; Ry R 76:311-12 F 14 '25
Railways of Central America and the West Indies. W. R. Long. il diags map U S Bur For & Dom Com Trade Promotion Ser 5:157-376 '25

Czechoslovakia

Czech railways commercialized. V. Pártl. il Ry Age 78:125-6 Ja 3 '25
Czechoslovak railways bring down the deficit. V. Partl. il Ry Age 76:119-22 Ja 5 '24
See also Railroads—Electrification—Czechoslovakia

Denmark

Danish railways earn surplus. F. Terkelsen. il Ry Age 78:135-6 Ja 3 '25
Danish railways increase their earnings. A. Blichfeldt. il Ry Age 76:115-16 Ja 5 '24

Egypt

Egypt jogging along in the railway race. C. K. Huston. il Ry Age 76:139-42 Ja 5 '24

Europe

Germany and some other European countries. il Ry Age 76:137-8 Ja 5 '24
International railway between Italy and France proposed. Eng N 94:311 F 19 '25
Projet d'une ligne de Limoges à Saint-Germain-des-Fossés, pour faciliter les communications de Bordeaux avec le sud-est de l'Europe. map Génie Civil 84:93 Ja 26 '24
See also Railroads—Electrification—Europe

Federated Malay states

Federated Malay states railways. Engineer 140:240 S 4 '25

Florida

Building a railroad in record time; completion of Florida, Western & Northern. il map Ry Age 79:349-53 Ag 22 '25
Enthusiastic for Florida's new railroad. Manuf Rec 85:81-2 My 8 '24
Railroad building aids Florida's growth. Ry R 77:204 Ag 8 '25
Rapid railroad construction on Florida line. il map Eng N 94:927-8 Je 4 '25
Seaboard air line R.R. builds Florida extension. map Ry R 77:165-8 Ag 1 '25

France

France hopes to end deficits. M. Peschaud. il Ry Age 78:119-21 Ja 3 '25
France likes operation under new policy. M. Peschaud. il Ry Age 76:103-5 Ja 5 '24
French locomotive performances. J. T. B. Alexander. Engineer 139:153-5 F 6 '25
French railways. Engineering 116:748-9 D 14 '23
Operating results of the French railroads in 1924. Econ W n s 30:14-15 Jl 4 '25; Same. Ry Age 79:113 Jl 11 '25
Winter train services in France. Engineer 137:63 Ja 18 '24
See also Railroads—Electrification—France

Germany

German railroads a part of the Dawes reparations scheme. Ry R 74:686 Ap 12 '24
German railways (organized under Dawes plan) obtain large credit in United States and England. Comm & Fin Chr 119:2480-1 N 29 '24
German railways under the Dawes reparations plan. B. V. York. Econ W n s 28:328-30 S 6 '24
Germany and some other European countries. il Ry Age 76:137-8 Ja 5 '24
Germany's railway problem from a technical standpoint. K. Geisler. il Ry Age 78:430-1 F 14 '25
Labor problem of the German state railroads. R. R. Kuczynski. Monthly Labor R 19:47-54 Jl '24
Neuere ziele der bewirtschaftung des deutschen oberbaues. G. B. Kurth. Zeit Ver Deutsch Ing 68:994-6 S 20 '24
Outlook for the German railways. R: P. Wagner. il Ry Age 78:127-8 Ja 3 '25
Reorganization of the German railways. W: Acworth. Ry Age 77:799-802 N 1 '24
Die selbständigmachung der deutschen reichsbahn. J. Reichert. Stahl & Eisen 44:281-5 Mr 13 '24
Transfer of Rhineland railways to private company formed under Dawes plan. Comm & Fin Chr 119:2591 D 6 '24
Transformation of the German railway system since the world war. E. Esch. Harvard Business R 3:312-20 Ap '25
Truth about Germany's industrial revival. P. Dawson. Ind Management 70:53-9 Jl '25
Die zukunft der reichsbahnen. D. G. Franke. Stahl & Eisen 44:1069-74 S 4 '24

RAILROADS—Germany—*Continued*

Zur verkehrslage und zur tarifpolitik der deutschen reichsbahn. Stahl & Eisen 43: 1414-16 N 8 '24

See also Railroads—Electrification—Germany; Railroads and state—Germany

Great Britain

Briggs' railway collection; exhibition of engravings and documents. il Engineer 140: 108-10 Jl 31 '25

British centenary celebration. S: O. Dunn. il Ry Age 79:183-6 Jl 25 '25

British steam railroads carry much local traffic in cities. W. Jackson. Elec Ry J 65:621 Ap 18 '25

Celebrate centenary of first steam railway in England. Am Mach 63:214a Jl 30 '25

Le centenaire des chemins de fer à vapeur en Angleterre. il diags Génie Civil 87:101-4 Ag 1 '25

Century of railways. Engineer 140:323-4 S 25 '25

Development of British railway groups. Ry R 74:292-3 F 16 '24

How England celebrated 100 years of railroading. H. A. Smith. il Ry R 77:115-20 Jl 25 '25

How the British railways were consolidated: 1921-1923. Eng N 92:536 Mr 27 '24

London, Midland, and Scottish railway company annual meeting, 1st, Feb. 29. Economist 98:482-7 Mr 1 '24

London, Midland, and Scottish railway company annual meeting, Feb. 27. Economist 100:409-11 F 28 '25

New British narrow-gage railway; Welsh highland railway. il Eng N 92:319 F 21 '24

Official railway statistics in Great Britain. C. W. Hurcomb. Roy Statis Soc J 88:335-66; Discussion. 366-78 My '25

One hundred years of British railways. Engineer 138:17, 37-8, 78-9, 108-9, 136-7, 156-7, 179-80, 214-15, 240-1, 261, 288-90, 319-21, 354-6, 374-5, 413-14, 440-1, 468-9, 498-9, 528-9, 549-50, 575-7, 604-5, 634-6, 673-4, 691-3, 728-30 Jl 4-D 26 '24

100 years of British railways. W. H. Fraser. il Ry Age 78:114-18 Ja 3 '25

Position of British railways. W. T. Stephenson. Engineering 120:319-20 S 11 '25

Railway amalgamation in Great Britain. W: E: Simnett. 276p Railway gazette, London '23

Railway centenary. il diags Engineering 119: 783-96, pl 49-56; 120:41-2 Je 26, Jl 10 '25; Engineer 140:42-3 Jl 10 '25

Railway consolidation in England. Ry R 77: 635 O 24 '25

Railway receipts and expenditure. Economist 100:439-41 Mr 7 '25

Railway relics at Faverdale. il Engineer 140: 157-8 Ag 14 '25

Railway results in 1924. Engineer 139:406, 410 Ap 10 '25

Railway returns for 1924. Engineer 140:170-1 Ag 14 '25

Railways in 1923. Engineer 137:5-6 Ja 4 '24

Railways in 1924. Engineer 139:56-7 Ja 9 '25

Relative advantages of transport by road and rail, with special reference to the future; discussion. Engineering 117:234-6 F 22 '24

Year of consolidation in Britain. W. H. Fraser. il Ry Age 76:99-102 Ja 5 '24

See also Railroads—Electrification—Great Britain

India

Indian railroads pool rolling stock. Ry R 77:351 S 5 '25

Indian railway budget handled separately. Ry Age 77:911 N 15 '24

Indian railway earnings increase. il Ry Age 78:155-8 Ja 3 '25

Indian railways. K. V. Iyer. 131p Oxford '24

Indian railways in 1923-24. Engineer 139:352 Mr 27 '25; Engineering 119:746 Je 12 '25

India's railways practicing rigid economy. il Ry Age 76:163-5 Ja 5 '24

Report for the year ended March 31, 1923. Engineer 137:286-7 Mr 14 '24

Italy

Italy makes big reduction in railway deficit. A. Giordano. il Ry Age 76:106-8 Ja 5 '24

Italy's railways from an American viewpoint. C: L. Dinsmore. il Ry Age 77:201-4 Ag 2 '24

Remarkable improvement in the operating results of the railways of Italy. Econ W n s 29:51 Ja 10 '25

See also Railroads—Electrification—Italy; *also* Centovalli railway

Japan

Difficulties in long tunnel for Japanese railways. K. Kusuda. il diag Eng N 95:336-8 Ag 27 '25

Driving six-mile Shimizu tunnel on the Japan railways. Y. Hashimoto. diag map Eng N 95: 171-2 Jl 30 '25

Earthquake damage to Japanese government railways. M. Nawa. map Eng N 91:1047-8 D 27 '23

Japan relegating quake to history. il Ry Age 78:148-50 Ja 3 '25

Railways of Japan and South Manchuria. E: A. Simmons. il map Ry Age 76:155-8 Ja 5 '24

Railways of the Japanese empire. S. T. Dodd. il map Gen Elec R 27:227-37 Ap '24

What the earthquake did to the Japanese railways; illustrations. Ry Age 76:246 Ja 19 '24

See also Electric railroads—Japan; Railroads—Electrification—Japan

Java

See Railroads—Electrification—Java

Jugoslavia

Balkan railway problem far from solution. Lazarovich-Hrebelianovich. il map Ry Age 76:123-8 Ja 5 '24

Political control in Jugoslavia. Lazarovich-Hrebelianovich. Ry Age 78:131-2 Ja 3 '25

Railways in Yugoslavia. Ry R 76:1187 Je 20 '25

Kansas

Santa Fé railway builds low-grade line in Kansas. il diags plan Eng N 92:275-9 F 14 '24

Kentucky

L. & N. adds to facilities in eastern Kentucky. il diag maps Ry Age 76:537-41 Mr 8 '24

Manchuria

Economic development of Manchuria through railway construction. C: K. Moser. Econ W n s 30:545-7 O 17 '25

Railways of Japan and South Manchuria. E: A. Simmons. il map Ry Age 76:155-8 Ja 5 '24

Mexico

Linking Mexico and California. G: F. Paul. il map Sci Am 133:316-17 N '25

Mexican railways continue to improve. il Ry Age 76:43-4 Ja 5 '24

Primitive methods most effective on Mexican project. E. B. Sloan. il Ry Age 79:223-5 Ag 1 '25

Railways of Mexico. W. R. Long. il diags maps U S Bur For & Dom Com Trade Promotion Ser 16:1-220 '25; Excerpts. Econ W n s 28: 440-2 S 27 '24; Ry R 75:583-5 O 18 '24; Ry Age 78:44-7 Ja 3 '25

Report of National railways of Mexico. Ry Age 78:1363 My 30 '25

See also Railroads—Electrification—Mexico

Michigan

Consolidation proposals as they affect Michigan. F. H. Alfred. il Ry R 74:103-4 Ja 12 '24

Netherlands

Netherlands railways are marking time. C. Schotel. il Ry Age 76:113-14 Ja 5 '24

New England

General railroad situation as it affects New England. C. L. Bardo. il Ry R 73:795-9 D 1 '23

New Haven's experts criticise the Storrow report. Ry R 73:794-5 D 1 '23

RAILROADS—New England—*Continued*
Railroad situation in New England. J. P. Snow. Boston Soc C E J 10:436-41 D '23

New Jersey

Suburban traffic in north Jersey. Ry Age 78: 368 F 7 '25

New South Wales

Report on government railways in New South Wales. Eng N 94:560 Ap 2 '25

New Zealand

Arthur's Pass tunnel in New Zealand completed. F. W. Furkert. il diags Eng N 92: 395-6 Mr 6 '24
New method needed on New Zealand railways. Eng N 94:815 My 14 '25
Report on New Zealand railways. Engineer 139:235-6 F 27 '25

See also Railroads—Electrification—New Zealand

Nigeria

Nigerian railways. F. D. H. Hammond. map Engineering 119:550-2 My 1 '25
Railways of Nigera. Ry R 77:13 Jl 4 '25

North Carolina

North Carolina to build a state railroad. map Eng N 91:878 N 29 '23
Southern transportation facilities. R. G. Macy. maps Management & Adm 8:403-8 O '24

Northwestern states

Adequacy of facilities in the Northwest. Ry Age 76:387-90 F 9 '24
How goes it with the rails in the Northwest? A. C. Laut. il Forbes 17:21-4 N 1 '25
Northwestern railroads. Moody's Inv Serv 17:114 Ap 2 '25

Norway

See Railroads—Electrification—Norway

Oregon

New lines in Oregon recommended to I.C.C.; examiner suggests that Southern Pacific lines be transferred to Union Pacific operation. Ry Age 77:749-51 O 25 '24
Proposed railroad developments in central Oregon. map Eng N 93:635 O 16 '24
Railroad developments in Oregon reported on by I.C.C. map Eng N 94:104 Ja 15 '25
Railroads not fighting for new territory in Oregon. map Eng N 94:1036 Je 18 '25

Penang

Penang Hills railway. il diags map plan Engineering 118:664-8, 678, 726-30, 740, 789-92, 852-3, pl 69-72 N 14, 28, D 12, 26 '24

Pennsylvania

Proposed new line across Pennsylvania. map Ry Age 78:1284-5 My 23 '25
Railroad across Pennsylvania discussed before commission. map Eng N 94:1076 Je 25 '25

See also New York, Pittsburgh & Chicago railroad

Philippine Islands

Railway location in the Philippines. H. V. Campbell. map Eng & Contr (G C) 64:176-9 Jl 15 '25

Poland

Polish railways steadily improve. R. V. Wright. il Ry Age 78:137-9 Ja 3 '25
Polish railways still badly handicapped. G. M. Oehm. il Ry Age 76:117-18 Ja 5 '24

Ruhr valley

Die eisenbahnfrage im besetzten gebiet. Stahl & Eisen 44:145-7 F 7 '24
L'exploitation des chemins de fer en Allemagne occupée, par la Régie franco-belge. Génie Civil 85:274-7 S 27 '24

Rumania

Internal transport and communication. C: E. Dickerson, jr. map U S Bur For & Dom Com 222:58-71 '24

Russia

Condition of railways in soviet Russia. Ry Age 76:859 Mr 29 '24; Same. Econ W n s 27:299 Mr 1 '24
Russian railways. Engineering 119:699 Je 5 '25
Russian railways show some improvement; abstracts. S. Brooks. il Ry Age 76:129-33 Ja 5 '24; Ry R 74:839-42 My 10 '24

See also Railroads—Electrification—Russia

South Africa

Brighter prospects for South African railways. G. E. Chittenden. il Ry Age 76:143-5 Ja 5 '24
Conditions improve in South Africa. Ry Age 78:809 Mr 21 '25
Railway problems in South Africa. Eng N 92: 490 Mr 20 '24

See also Railroads—Electrification—South Africa

South America

See Railroads—Electrification—South America

South Carolina

Southern transportation facilities. R. G. Macy. maps Management & Adm 8:403-8 O '24

Southern states

Big railroad improvement in Southwest. L: J. Spence. map Manuf Rec 86:83 O 9 '24
Railways of the South. Moody's Inv Serv 17: 289-90 S 3 '25
South built the first railroads in America; history of railroad development from 1826-1924. S. G. Wilmer. il Manuf Rec 86:263-9 pt 2 D 11 '24
Southern railroads share Southern prosperity. R: Spillane. Comm & Fin 13:613-14 Mr 26 '24

Spain

Classification of Spanish railways. Engineer 139:469 Ap 24 '25
New railway régime in Spain. A. C. Blackall. il Ry Age 78:129-30 Ja 3 '25
Railways of Spain. G: L. Boag. 129p Ry. gazette, London '23
Spanish railway situation. Ry Age 76:304 Ja 26 '24

See also Railroads—Electrification—Spain

Sweden

Swedish railways are doing well. L. Akselsson. il Ry Age 78:133-4 Ja 3 '25

See also Railroads—Electrification—Sweden

Switzerland

See Railroads—Electrification—Switzerland; *also* Centovalli railway

Texas

I.C.C. denies certificates for new railroad projects in Texas. Ry Age 77:482-3 S 20 '24
Seven railroads apply for permission to build in Texas. C. A. Matthaei. Eng N 92:769 My 1 '24

Turkey

Future of railways in Turkey still in doubt. A. V. Bey. il map Ry Age 76:146-50 Ja 5 '24

See also Chester concession

United States

Address at 43rd annual banquet of Engineer's society of western Pennsylvania, Pittsburgh, Pa., Jan. 28. E. Lee. Blast F & Steel Pl 12: 94-7 F '24
American railroads in 1924 and 1925. R. S. Binkerd. Ry R 76:5-7 Ja 3 '25
American railway association review. Ry R 74:4-5 Ja 5 '24
American transportation. S: Rea. Mech Eng 47:871-4 N '25; Excerpts. Ry Age 79:658-60 O 10 '25; Ry R 77:593-4 O 17 '25
Analysis of the railroad section of President Coolidge's message to Congress. S. D. Warfield. Comm & Fin Chr 120:47-8 Ja 3 '25
Best railroad year in a decade. F. Snow. Comm & Fin 14:63-4 Ja 14 '25

RAILROADS—United States—*Continued*
Business in 1925 will tax railway capacity. S: O. Dunn. Ry Age 77:1082-6 D 13 '24
Business of railway transportation, traffic—rates—regulation. L: H: Haney. 613p Ronald press '24
Case for the railroads. S: Rea. il Nation's Business 12:20-1 Ap '24
Comment on the general situation. S. Rea; D: Willard; P. E. Crowley. Ry R 76:75-8 Ja 3 '25
Co-operation in the transportation industry. W: N. Doak. Ry Age 77:1165-7 D 27 '24
Current railway situation. C. H. Markham. Ry Age 78:419-20 F 14 '25
Economic relations of our railroads to industry. E. B. Leigh. Ry R 77:605-6 O 17 '25
Expressions of executives on current outlook. Ry R 74:6-11; 76:8-19 Ja 5 '24, Ja 3 '25
First normal railroad year is 1923. J. Kruttschnitt. Ry R 73:696-700 N 10 '23
Improvement is present keynote of American railroads. E. E. R. Tratman. Eng N 92:14-16 Ja 3 '24
Marching orders for transportation; conference committee findings summarized by William Pickett Helm. Nation's Business 11: 41-2+ D '23
New day for railroad transportation. J. C. Davis. Ry R 76:539-41 Mr 14 '25
New order in railway efficiency. R. H. Aishton. Ry R 76:474-5 Mr 7 '25
Place of railway transportation in our industrial structure. 17p National transportation institute, Washington '24
Practical steps to improve railroad situation. S: Rea. Ry Age 76:341-4 F 2 '24
Present railroad situation. 32p National industrial conference bd., New York '23
Present situation of the railroads. C: W. Foss. il Bankers M 108:353-62 Mr '24
Present status of the steam railways. J. D. McCartney. Munic Eng 65:278-81 D '23
President Coolidge on railroads. Ry Age 75: 1092-3 D 15 '23
Principles of railway transportation. E. Jones. 607p Macmillan '24
Proposed new trunk line railroad. Bradstreet's 53:562 Ag 29 '25
Rail, water and highway transportation as viewed by rail engineer. R. H. Ford. Munic & Co Eng 68:178-81 Ap '25
Railroad performance. 60p National industrial conference bd., New York '24
Railroads among the best spenders. C. H. Markham. Am Bankers Assn J 17:220-1+ O '24; Same. Comm & Fin Chr 119:92-6 sec 2 O 18 '24
Railroads and national expansion. C: H. Markham. Ry Age 77:1117-20 D 20 '24; Same. Econ W n s 28:832-6 D 13 '24; Excerpts. Ry R 75:1006-7 D 20 '24
Railroads as factors in the country's business. C: H. Markham. Econ W n s 29:79-82 Ja 17 '25
Railroads as the public views them. W: S. Myers. Ry Age 75:1104-6 D 15 '23
Railroads enter 1925 at peak of efficiency. J. H. Parmelee. Annalist 25:15+ Ja 5 '25
Railroads have made us what we are today. F. J. Lisman. Forbes 13:757-8+ Mr 29 '24
Railroads in 1925 anticipate expansion. W. J. Harahan. Ry R 76:94-5 Ja 3 '25
Railroads perform beyond promise. R. H. Aishton. Nation's Business 12:46+ Ja '24
Railroads' share in more economical distribution. J. G. Condon. Ptr Ink 125:8+ D 13 '23
Railroads will need $7,870,000,000 next ten years to provide for increase in traffic, says committee of United States Chamber of commerce. Comm & Fin Chr 117:2289-90 N 24 '23
Railroads will spend much money this year. Manuf Rec 87:65-8 Ap 9 '25
Railway executives on outlook for 1924. Ry Age 76:6-13 Ja 5 '24
Railway outlook an indicator of general prosperity. C: W. Foss. Annalist 25:126+ Ja 19 '25
Railway problems and outlook. Ry Age 78: 7-22 Ja 3 '25
Railway transportation. S. L. Miller. 905p Shaw '24
Railways and the open spaces. Ry R 75:323 Ag 30 '24
Railways of the United States in 1922. Engineering 117:115-16 Ja 25 '24
Record railroad year. J. H. Parmelee. Annalist 23:29-33 Ja 7 '24
Service of railroads revolutionizing business methods and saving millions of dollars to shippers. A. P. Thom. Comm & Fin Chr 120: 3148 Je 20 '25
Ten points on national transportations policies. H. Hoover. Ry R 74:116-17 Ja 12 '24; Same. Eng & Contr (Ry) 61:148-50 Ja 16 '24
Transportation and national development. J. G. Sullivan. Can Eng 48:145-6 Ja 20 '25
Transportation outlook for 1924. J. C. Davis. Ry Age 76:451-2 F 23 '24
Transportation topics in the President's message. Ry R 75:924-5 D 6 '24
What the farmer expects of the railroads. J. R. Howard. Ry R 73:679-80 N 10 '23
What the future holds for the railroads. D: Friday. Ry Age 77:1113-14 D 20 '24; Excerpts. Ry R 75:1008-9 D 20 '24
What's ahead for the railroads; Mark W. Potter talks to Henry Schott. il Nation's Business 13:34-6 Ap '25

See also Electric railroads—United States; Interstate commerce commission; Railroads—Consolidation; Railroads—Electrification—United States; Railroads and state—United States; Transportation act, 1920; Transportation conference, Washington, 1924; *also* subdivision Railroads under names of cities, e.g. New York (city)—Railroads; *also* names of railroads, e.g. Northern Pacific railroad; Pennsylvania railroad; Union Pacific railroad

History

Chronological review of major events of 1923. R. A. Doster. Ry Age 76:94-6 Ja 5 '24
Short history of American railways, covering ten decades. S. Thompson. 473p [bibliog. p. 445-9] Appleton '25; Review. Bradstreet's 53:417-18 Je 27 '25

Virginia

Railways' part in the development of Hampton Roads. C: S. Churchill. il map Am Soc C E Pro 49:2006-20 D '23; Discussion. 50:122-3 Ja '24

Washington

I.C.C. divided on certificate for new line to the Wenatchee Southern. Ry Age 77:325-6 Ag 23 '24

West Indies

Railways of Central America and the West Indies. W. R. Long. il diags maps U S Bur For & Dom Com Trade Promotion Ser 5:157-376 '25: Excerpts. Am Mach 62: 581-2 Ap 9 '25

West Virginia

See Coal River & Eastern railway

Wisconsin

Eliminating grade crossings by highway relocation. M. W. Torkelson. diag Eng N 92: 403-5 Mr 6 '24

RAILROADS, Cable. See Cable railroads

RAILROADS, Electric. See Electric railroads

RAILROADS, Elevated. See Elevated railroads

RAILROADS, Industrial
Big new industrial railway high line of Tennessee coal, iron and railroad co. il Manuf Rec 87:80-1 Mr 12 '25
Clearance requirements on curved track. J. Feld. Ry R 75:233-5 Ag 16 '24
Completes new industrial road. il map Iron Tr R 77:893-4+ O 8 '25
General Electric transportation at the Schenectady works. G. Bartlett. il Management & Adm 10:191-4 O '25
Gravel road building with industrial railway; building the 21-mile Lacolle-St Johns highway in the Province of Quebec. il Eng & Contr (R & S) 61:527-30 Mr 5 '24
High line reduces ore haul. il map Iron Age 116:952-3 O 8 '25

RAILROADS, Industrial—*Continued*
Industrial transportation over definite lines of travel. M. W. Potts. il Ind Management 68: 50-7 Jl '24
Lease of industrial road denied by I.C.C. Ry Age 77:837-8 N 8 '24
Meeting the shipper on the industry track. O. F. Scudder and others. Ry Age 76:981-4 Ap 19 '24
New industrial tracks. F. Sherron. Ry R 76: 954-5 My 23 '25
Oregon's wooden railroads. L. Lerrill. il Ry R 77:667 O 31 '25
Railroad's relations with its industries. A. Leckie. Ry R 75:367-9 S 6 '24
Steel car equipment in mill service. il Ry R 76:141-3 Ja 17 '25
See also Locomotives, Industrial; Mine tracks

Safety devices and measures
Operating the plant railroad safely. J. A. Hughes. Iron Tr R 77:1028-9 O 22 '25
Operating the plant railway without accidents. J. M. Woltz. il Nat Safety N 12:15-18 O '25

Switches, frogs, etc.
Jump switch for tunnel work. diags Eng & Contr (G C) 63:1132 My 20 '25

RAILROADS, Interurban. See Interurban railroads

RAILROADS, Local and light
Light railways. Economist 98:999 My 17 '24
Traction for light railways; report to the International railway congress. Engineering 120:38-9 Jl 10 '25
See also Railroads, Industrial; Railroads, Narrow gage; Railroads, Short line

RAILROADS, Monorail
Conquering excessive grades and curves with a monorail line. il Sci Am 130:249 Ap '24; Same. Eng & Contr (Ry) 62:1315-16 D 17 '24

RAILROADS, Mountain. See Mountain railroads

RAILROADS, Narrow gage
Ce que l'on peut faire sur une voie métrique. Gruet. diags Soc Ing Civils Bul 77:355-64 Ap '24
Compare standard and narrow gage for logging railroads. M. W. Stark. Eng N 94: 442 Mr 12 '25
Light railways and colonial railways; report to the International railway congress. Engineering 120:7-8 Jl 3 '25
New British narrow-gage railway. il Eng N 92:319 F 21 '24
L'utilisation des trucks-transporteurs sur les chemins de fer à voie étroite. L. Petit. il diag Génie Civil 86:259-62, 284-6 Mr 14-21 '25

RAILROADS, Short line
American short line railroad association 11th annual meeting. Ry Age 77:373-6 Ag 30 '24
American short line railroad association 12th meeting, Miami, Fla., Nov. 4-6. Ry R 77: 716-17 N 7 '25; Ry Age 79:856-8, 903-5 N 7-14 '25
Future ahead for the branch line. J: F. Layng. il plan Elec Ry J 66:511-16 S 26 '25
Scrap lines no longer justified. L. F. Loree. Ry Age 78:932-4 Ap 11 '25
Short line roads petition the Commission for better divisions. Ry R 74:777-8 Ap 26 '24
Should the short lines be taken up? R. C. Duff. Ry Age 78:870-2 Ap 4 '25
South Africa's effort to make branch lines pay. G. E. Chittenden. Ry Age 77:651-3 O 11 '24
Spending $1.75 to take in $1. R. S. Henry. il map Nation's Business 13:47-9 My '25
See also American short line railroad association

RAILROADS, Street. See Street railroads

RAILROADS, Switchback
Switchback railway at the Paris exhibition. il Engineer 139:525 My 8 '25

RAILROADS and state
Government operation obsolescent. W: Acworth. Ry Age 77:841 N 8 '24
Influence of Sir William Acworth on railway policies abroad. Economist 100:1010-12 My 23 '25
Railways and the state. H: W. Thornton. Ry R 74:532-5 Mr 15 '24
Some problems of railroad transportation. H: W. Thornton. Ry Age 77:779-82 N 1 '24; Excerpts. Ry R 75:769-70 N 8 '24
Why employees should oppose nationalization. W. D. Hines. Ry Age 77:279-81 Ag 16 '24
See also Railroads—Rates; Railway mail service

Austria
Reorganization of Austria's railways. Ry Age 75:1033 D 1 '23

Canada
Canada's experiment molded around a personality. W. S. Thompson. Ry R 75:756-7 N 8 '24
Canadian experiment in government ownership. S: J. Hungerford. Ry R 74:957-8 My 31 '24
Force of circumstances caused government rail-ownership in Canada. H: W. Thornton. Ry R 75:849 N 22 '24
Government ownership of railroads in Canada. C. F. Balch. Ry R 75:551 O 11 '24
How Canada acquired her state owned railways. H. W. Thornton. Am Bankers Assn J 17:566+ Mr '25
When government keeps the books. J. L. Payne. Nation's Business 12:25-6 Ag '24

Germany
Private operation recommended for Germany. Ry Age 76:1047-8 Ap 26 '24
Transformation of the German railway system since the world war. E. Esch. Harvard Business R 3:312-20 Ap '25

Mexico
Railways of Mexico. W. R. Long. il diags maps U S Bur For & Dom Com Trade Promotion Ser 16:1-220 '25; Excerpts. Econ W n s 28:440-2 S 27 '24; Ry R 75:583-5 O 18 '24; Ry Age 78:44-7 Ja 3 '25

New South Wales
Railways of New South Wales. Engineer 138: 728 D 26 '24

North Carolina
North Carolina to build a state railroad. map Eng N 91:878 N 29 '23

United States
Cloud on the railroad horizon. J. Kruttschnitt. Annalist 25:547+ Ap 20 '25
Cooperation vs. competition in transportation service. F. H. Dixon. Munic & Co Eng 66:210-15 My '24; Same. Eng & Contr (R & S) 61:1212-17 Je 4 '24
Credit the big railway problem. C. R. Gray. Am Bankers Assn J 16:794+ Je '24
Cumulative effect of existing railway regulation. L: F. Loree. Ry R 73:896-9 D 22 '23
Dangerous course of modern political thought. F. W. Sargent. Ry Age 76:1322-4 My 31 '24
Dangers involved in the proposals of Senator La Follette's party. H. Hoover. Comm & Fin Chr 119:1917-19 O 25 '24; Same. Elec Ry J 64:555-8 O 4 '24; Same. Ry Age 77: 593-6 O 4 '24; Same cond. Elec W 84:727-9 O 4 '24; Same cond. Eng N 93:626-7 O 16 '24; Excerpts. Ry R 75:515-18 O 4 '24
Development of railroad regulation. F. McManamy. Ry Age 76:1623-7 Je 17 '24
Did you ever figure the cost of Government ownership. J. W. McCardle. Aera 13:792-5 D '24
Fear of adverse railroad legislation detrimental to prosperity. F. N. Shepherd. Am Bankers Assn J 16:475-7 F '24
Futility of proposal of Senator La Follette for government ownership of railroads. H. Hoover. Comm & Fin Chr 119:1811-12 O 18 '24

RAILROADS and state—United States—*Cont.*
Governmental relations to railroad transportation; report of Chamber of commerce committee. Ry R 73:788-91 D 1 '23; Ry Age 75: 961-2 N 24 '23
Governmental relations to transportation. W. R. Cole. Ry Age 76:1630-3 Je 17 '24
If Uncle Sam owned the railroads. W. D. Hines. Ptr Ink 129:41-2+ O 16 '24
I.C.C. objects to control by coal company. Ry Age 76:1154 My 10 '24
I. C. C. Tionesta case. Ry Age 78:191 Ja 10 '25
Loans, etc., made by Federal authorities under Control act, Act of 1920, etc. Comm & Fin Chr 120:2768 My 30 '25
National safety menaced by railroad regulation. L. F. Loree. Annalist 22:691-2+ N 26 '23
President Felton replies to Magnus Johnson. Ry R 74:901-3 My 17 '24
President Felton replies to statement made by Senator Brookhart. Ry R 76:664-6 Ap 4 '25
Railroad legislation and railroad efficiency under government and under private control. C: Donnelly. Ry R 75:431-4 S 20 '24
Railroad problem. A. T. Hadley. Ry Age 76: 879 Ap 5 '24
Railroad question; a test of democracy. S: O. Dunn. Ry Age 76:409-12 F 16 '24
Regulation and politics. Ry Age 78:447-8 F 21 '25
Regulation and the future of the railroads. H. G. Taylor. Eng & Contr (Ry) 63:375-82 F 18 '25; Excerpts. Ry Age 77:1168 D 27 '24
Socialist principles in regulation. Ry Age 75:896 N 17 '23
Utopian government rail ownership dreams scored. C: Dillon. Ry R 75:449-50 S 20 '24
Voters sound on transportation overtures. J. A. Emery. Ry Age 77:1086-7 D 13 '24
Why the railroads must get a square deal. J: Oakwood. Forbes 13:762-5 Mr 29 '24

See also Interstate commerce commission; Railroad labor board; Railroad law; Railroads—Consolidation; Railroads—Valuation; Transportation act, 1920

Government operation, 1917-1920

Final report of Director general of railroads as to settlement with carriers. Ry R 76: 205-6 Ja 24 '25; Same. Ry Age 78:267-8, 846-8 Ja 24, Mr 28 '25
Getting it settled out of court. H. Corey. Nation's Business 12:26-8 Mr '24
Government's settlement of war time claims of carriers against railroad administration-final cost to government $1,696,000,000. Comm & Fin Chr 118:164-5 Ja 12 '24
Liquidation of the U.S. railroad administration; summary of progress to Dec. 31, 1923. J. C. Davis. Ry R 74:122-3 Ja 12 '24
Report of the Director general of railroads. Ry Age 76:195-6 Ja 12 '24
Settlement of accounts with Director-general of railroads. Comm & Fin Chr 120:2767-8 My 30 '25
Settlements with individual carriers. Comm & Fin Chr 117:2399-2400 D 1 '23
Status of accounts with the government. Ry Age 76:76 Ja 5 '24
Status of accounts with the government. H. F. Lane. Ry Age 78:50 Ja 3 '25
Treasury payments to railroads. Ry Age 75: 937-8 N 17 '23
What was demonstrated by actual government operation of the railroads in the United States. S: O. Dunn. Econ W n s 28:587 O 25 '24

RAILROADS in war
Operation of railroads in war. E. Jadwin. Ry Age 78:747-9 Mr 14 '25
Railroad operation in war time; text of tentative plan of War department. Ry Age 78:549-51; Discussion. 551-3 Mr 7 '25
Railway organizations of the United States army. A. W. Pence. Ry R 75:115-21 Jl 26 '24

RAILS
Better ends for rails. F. L. Macquarrie. Iron Age 116:346-7 Ag 6 '25
Briggs' railway collection; exhibition of engravings and documents. il Engineer 140: 108-10 Jl 31 '25
Canting of rails now favored by many roads. diags Ry Age 77:404-6 S 6 '24; Same. Eng & Contr (Ry) 62:839-44 O 15 '24
Les causes de l'usure des rails de chemins de fer; abstracts. C: Fremont. il Génie Civil 85:521-3 D 6 '24; Mech Eng 47:359-60 My '25
Character of wheel and rail contact. J: P. Kelly. diags Ry Mech Eng 99:448-52 Jl '25
Experience with 130-lb. rails on the Bessemer & Lake Erie R.R. diags plans Ry R 76:504-6 Mr 14 '25
Is the rail being improved? W. C. Cushing. Ry Age 79:393-4 Ag 29 '25
Keeping rail ends in contact. diag Elec Ry J 64:1027 D 20 '24
New rail head being rolled. diag Eng N 95: 593 O 8 '25
1923 rail production shows gain over 1922. Iron Tr R 74:971 Ap 10 '24
Properties of steels. J. E. Howard. Iron Age 114:1713-14 D 25 '24
Protecting rails from corrosion by oil spraying; abstract. Mech Eng 46:632 O '24
Rail production greater in 1923. Ry Age 77: 70 Jl 12 '24
Rail production in the United States in 1924. Ry Age 78:984 Ap 18 '25; Iron Age 115:1049 Ap 9 '25; Iron Tr R 76:976 Ap 9 '25
Reconditioning old rail. Eng & Contr (G C) 63:829-30 Ap 17 '25
Report of A.R.E.A. committee on rail. Ry R 74:576-7; 76:568 Mr 22 '24, Mr 21 '25
Securing the maximum life of rail in track. B. M. Cheney. Eng & Contr (Ry) 62:129-33 Jl 16 '24
Service assignment of rails, Pennsylvania R. R. system. Ry R 76:458-9 Mr 7 '25
Steel and electrical engineering. R. Hadfield. il Electrician 93:607-8 N 28 '24
Tendency towards longer and heavier rails. Eng & Contr (Ry) 62:614 S 17 '24
Track construction in Europe differs from practice here. il diags Elec Ry J 64:437-40 S 20 '24
Will railroads' rail requirements decrease? Ry Age 78:968 Ap 18 '25
Zur berechnung von schienenkalibrierungen. H. Cramer. diags Stahl & Eisen 44:1012-15 Ag 21 '24

See also Electric railroads—Track; Rail bonds; Rail joints; Railroads—Crossings; Railroads—Track; Rails, Used; Street railroads—Track; Third rail

Corrugation

How rail corrugation has been eliminated in Pittsburgh. I. E. Church. Elec Ry J 64:83-5 Jl 19 '24
Rail corrugation experience. il Elec Ry J 63: 255-60 F 16 '24; Same. Eng & Contr (Ry) 61:611-18 Mr 19 '24
Report of the A.E.R.E.A. committee on rail corrugation. Elec Ry J 66:626 O 10 '25
Untersuchung der riffelbildung an schienen mit hilfe des torsiographen. J. Geiger. il Zeit Ver Deutsch Ing 68:283-4 Mr 22 '24

Failures

Breaking rail problem discussed at World railroad congress. A. C. Blackall. Blast F & Steel Pl 13:333 Ag '25
Discussion of important reasons for broken rail which caused derailment. Ry R 74:838-9 My 10 '24
Fewer rail failures per 100 track miles per year of service. Iron Age 115:823 Mr 19 '25
Flakes or hair-cracks in chromium steel, with a discussion on shattered zones and transverse fissures in rails. A. Hultgren. diags Iron & Steel Inst J 111:113-48 [bibliog. p. 147-8], pl 14-17c no 1 '25; Same cond. Engineering 119:649-51 My 22 '25; Discussion. Iron & Steel Inst J 111:149-67 no 1 '25; Iron Age 115:1490-2 My 21 '25
High rail failure record for 1917 rollings. Iron Age 113:851-2 Mr 20 '24

RAILS—Failures—*Continued*
Low carbon rails show less transverse fissures. C. W. Gennet, jr. Ry Age 76:186 Ja 12 '24; Same. Eng & Contr (Ry) 61:849-50 Ap 16 '24
Rails and rail joints; report to the International railway congress. Engineer 139:646-7 Je 12 '25; Engineering 120:10-11 Jl 3 '25; Ry Age 79:86-7 Jl 11 '25; Ry R 77:277-8 Ag 22 '25
Study of transverse fissures broadened. Ry Age 75:1169 D 22 '23
La tache ovale argentée dans certaines cassures transversales des rails. C. Fremont. il Génie Civil 87:349-51 O 24 '25
Zerstörungsformen bei schienen im eisenbahnbetrieb. A. Diehl. Stahl & Eisen 44: 1148-9 S 18 '24
See also Rails—Stresses

Joints

See Rail joints

Manufacture

Comparison of the deoxidation effects of titanium and silicon on the properties of rail steel. G: K. Burgess and G. W. Quick. il diags U S Bur Stand Tech Pa 241:581-635 '23
Experiments in the quench-hardening of steel rails; abstract. C. J. Allen. Mech Eng 47:855 O '25
How the quality of rails can be improved. C: W. Gennet, jr. Ry Age 77:63-5 Jl 12 '24
Improves rail and track supply plant; the Colorado fuel and iron co., Pueblo, Colo. G. L. Lacher. il Iron Age 114:495-9 Ag 28 '24
Late developments in steel rail practice. C. W. Gennet, jr. Iron Age 113:1721-2 Je 12 '24; Same. Ry R 75:94-5 Jl 19 '24
Recent improvements in rail steel. C. B. Bronson. Eng & Contr (Ry) 63:364-6 F 18 '25; Same. Ry Age 78:181-2 Ja 10 '25; Same cond. Iron Age 114:1685-6 D 25 '24
Rolling rails—history. G. P. Raidabaugh. diags Blast F & Steel Pl 13:110-13, 167-71 Mr-Ap '25
Story of steel; from the ingot to the finished product—rolling steel rails. il Sci Am 131: 174-5 S '24
Thomasstahl als baustoff für schienen höherer festigkeit. C. Canaris. Stahl & Eisen 45: 33-8; Discussion 38-40 Ja 8 '25
Traitement thermique des rails par le procédé de la Compagnie des forges de Châtillon, Commentry et Neuves-Maisons. A. Bidault des Chaumes. il diags Génie Civil 86:140-3 F 7 '25

Marking

Marking of steel rails. C. W. Gennet, jr. Ry R 75:543-4 O 11 '24; Same cond. Eng & Contr (Ry) 63:586 Mr 18 '25

Sandberg sorbitic process

Le durcissement superficiel des rails. E. Marcotte. il Génie Civil 86:42-4 Ja 10 '25
Mill treatment doubles the life of rail; service tests by Boston elevated railway of Sandberg sorbitic rail. il Elec Ry J 64:123-5 Jl 26 '24; Same. Eng & Contr (Ry) 63:149-52 Ja 21 '25
Sorbitic treatment for steel rails. Sci Am 129: 434 D '23
Sorbitic treatment of rails. C. J. Allen. il diag Ry R 74:1245-8 Je 28 '24

Specifications

A.E.R.E.A. supplemental report of way matters. Elec Ry J 66:707-8 O 17 '25
American railway association adopts new rail specifications. Ry Age 79:818 O 31 '25; Eng & Contr (G C) 64:1357 D 16 '25
Standard specifications for carbon-steel rails. [Portuguese-English edition] U S Bur For & Dom Com Industrial Standards 201:1-20 '25

Standards

Latest development in track material. E. d'Hoop. diags Elec Ry J 64:97-8 Jl 19 '24; Discussion. F. Bland. 64:392-3 S 13 '24
New British standard rail sections. diag Eng N 93:371 S 4 '24
Thirty-nine feet as standard rail adopted at the 26th annual convention of the American railway engineering association. Iron Age 115:823 Mr 19 '25

Stresses

Efforts horizontaux alternatifs produits par des charges roulantes sur une voie à deux rails en alignement droit. F. Chaudy. Génie Civil 83:640-1 D 29 '23
Eigenspannungen in walzstäben unter besonderer berücksichtigung der schienen. P. Bardenheuer. il Stahl & Eisen 45:1098-1101 Jl 9 '25
Fourth progress report of the special committee to report on stresses in railroad track. diags Am Soc C E Pro 51:469-635 Ap '25
Otheographic records of wheel effects on rails. il diags Eng N 92:441-2 Mr 13 '24
Relation of track stress to locomotive design. C. T. Ripley. il diags Ry Age 76:1547-53 Je 14 '24; Abstract. Eng N 93:336 Ag 28 '24; Discussion. Ry Age 76:1553-8 Je 14 '24
Report of the special committee of A.R.E.A. on stresses in railroad track. Ry R 76:532-3 Mr 14 '25
Study of transverse fissures broadened. Ry Age 75:1169 D 22 '23

Testing

Low carbon rails show less transverse fissures. C. W. Gennet, jr. Ry Age 76:186 Ja 12 '24; Same. Eng & Contr (Ry) 61:849-50 Ap 16 '24
Magnetic rail tester. Electrician 95:9 Jl 3 '25
Measuring rail deflections under load. Elec Ry J 65:258 F 14 '25
Mill treatment doubles the life of rail; service tests by Boston elevated railway of Sandberg sorbitic rail. il Elec Ry J 64:123-5 Jl 26 '24; Same. Eng & Contr (Ry) 63: 149-52 Ja 21 '25
Otheographic records of wheel effects on rails. il diags Eng N 92:441-2 Mr 13 '24
Reading tests a new rail section. diags Ry R 77:469-70 S 26 '25; Abstract. Mech Eng 47: 934 N '25

RAILS, Guard. See Guard rails

RAILS, Used
Make rail steel products in 8 states. E. C. Boehringer. il diag Iron Tr R 74:979-81 Ap 10 '24
Rerolling old railroad rails into rods. A. Noell. diags Iron Age 113:866-9 Mr 20 '24

RAILS, Wood
Oregon's wooden railroads. L. Lerrill. il Ry R 77:667 O 31 '25

RAILWAY accounting officers association
Annual meeting, 36th, San Francisco, July 9-11. Ry Age 77:113-22 Jl 19 '24
Annual meeting, 37th, Atlantic City, June 9-12. Ry Age 78:1515-25 Je 20 '25; Ry R 76: 1135-7 Je 20 '25

RAILWAY business association
Annual meeting, New York city, Nov. 8. Ry R 73:695-700, 734-6 N 10-17 '23
Annual meeting, New York, Dec. 11. Ry Age 77:1126-7 D 20 '24; Ry R 75:987-8 D 20 '24

RAILWAY congress, International. See International railway congress

RAILWAY development association, American. See American railway development association

RAILWAY engineer batallions. See United States—Army—Railway engineer batallions

RAILWAY fire protection association
Annual meeting, 11th, Richmond, Va., Oct. 21-23. Ry Age 77:803-5 N 1 '24
Annual convention, 12th, Chicago, Oct. 20-22. Ry R 77:641-2 O 24 '25; Ry Age 79:801-2 O 31 '25

RAILWAY fuel association, International. See International railway fuel association

RAILWAY mail service
A.E.R.A. brief in the mail pay case. Aera 12: 1721-8 My '24

RAILWAY mail service—*Continued*
Mail pay case decided. Elec Ry J 65:1023-4 Je 27 '25
Mail pay decision. Aera 14:92-3 Ag '25
Mail pay rates increased for Western short lines. Ry Age 78:314 Ja 31 '25
Mail transportation by railroads. Ry Age 77: 1015 D 6 '24
New England railroads granted increase in railway mail pay. Ry R 74:157 Ja 19 '24; Ry Age 76:259 Ja 19 '24
Railroads ask higher mail pay. Ry Age 78: 1209 My 16 '25
Railway mail service. E. McGrath. Ry Age 78:845 Mr 28 '25

See also Mail terminal buildings

Cars

See Postal cars

RAILWAY real estate association
Annual meeting, 5th, Chicago, Oct. 14-15. Ry R 75:593-5 O 18 '24

RAILWAY steel spring company
Railway steel spring company stock. Moody's Inv Serv 17:339 O 15 '25

RAIN and rainfall
Determining the mean precipitation on a drainage basin. R. E. Horton. bibliog diags map N E Water Works Assn J 38:1-43; Discussion. 44-7 Mr '24
Distribution of intense rainfall and some other factors in the design of storm-water drains. F. A. Marston. Am Soc C E Pro 50:19-46, pl 1 Ja '24; Discussion. 50:543-58, 660-70 Ap-My '24
The drouth. Comm M 7:13-14 O '25
Elster and Geitel's theory of the electrification of rain drops. T. E. W. Schumann. il Phys R 26:105-10 Jl '25
Floods of the Damodar river and rainstorms producing them. E. L. Glass. Engineering 117:86 Ja 18 '24
Intensity of rainfall and consequent runoff from a catchment. J. W. Meares. Engineering 117:40-2 Ja 11 '24
Lack of winter rainfall in Texas and its possible effects for the 1925 cotton crop. Econ W n s 29:535 Ap 11 '25
1924 drought in Connecticut. Pub Works 56: 168 My '25
Orographic precipitation. S. Ono. Philos Mag 6th ser 49:144-64 Ja '25
Periodic fluctuations of rainfall in Hawaii. J. B. Cox. Am Soc C E Pro 49:1699-1721, pl 7 O '23; Discussion. 49:2089-90; 50:110-13, 343-4, 505-7 D '23-Ja, Mr-Ap '24
Precipitation and runoff at the continental divide. J. E. Church, jr. and E. H. Jones. Eng N 94:190-5 Ja 29 '25; Discussion. 94: 195, 408 Ja 29, Mr 5 '25
Precipitation and runoff near the continental divide. R. E. Horton. diags map Eng N 92:355-8 F 28 '24; Correction. 92:502 Mr 20 '24
Probability methods for rainfall and runoff. S. L. Moyer. Eng N 94:906 My 28 '25; Discussion. 94:1071; 95:74 Je 25, Jl 9 '25
Rainfall and infiltration. Can Eng 47:580 D 9 '24
Rainfall and run-off in connection with sewer design. J. G. Caron. il Eng & Contr (W W) 64:575-86 S 9 '25
Rainfall cycles and new periodicity test. Eng N 92:329 F 21 '24
Rainfall during the first half year of 1925. maps Comm M 7:23-5 Ag '25
Some floods and droughts on New England streams. C. M. Saville. map N E Water Works Assn J 39:1-31, pl 1-3 Mr '25
Surface yield from a hydrographical basin. Engineering 117:193-5 F 15 '24

See also Floods; Meteorology; Run-off; Snow; Water storage

RAIN insurance. See Insurance, Rain

RAISINS
Chemical engineering methods in processing dried fruit. A. W. Allen. il Chem & Met Eng 30:10-12 Ja 7 '24
Industrial alcohol and byproducts from raisins. A. W. Allen. il diags Chem & Met Eng 32: 674-8 Ag '25
Raisins and the market. Comm M 7:28-30 Je '25
Sun-maid upholds the right arm of the grocer. R. P. Merritt. Ptr Ink 127:61-2+ Je 26 '24

Advertising

Advertising lowers Sun-Maid selling cost. Ptr Ink 130:149-50 F 12 '25
Sun-maid advertising influences Danish politics. G. Elley-Hansen. Ptr Ink 128:65-6 S 18 '24

RALEIGH, North Carolina
Engineering in the small city, Eng N 95:381-2 S 3 '25

RAMIE
Chats with the textile chemists. J. M. Matthews. Textile World 68:1623 S 19 '25
Mercerising, dyeing and finishing of ramie. W: Marshall. il (supp) Soc Dyers & Col J 40:10-13 Ja '24
Properties and utilization of ramie fibres. A. J. Hall. diags Textile Col 46:355-8 Je '24
Ramie or China grass. J. F. Gillen and J. O. Hayes. U S Bur For & Dom Com Trade Information Bul 166:1-9 '23
Rhea yarns and cloth. il Textile World 68:2163 O 10 '25
Why new fabrics and fibres? H. G. Beede. Textile World 68:2479+ O 24 '25

See also Hemp

RAMSAY, Erskine
Builder of the Birmingham district; Erskine Ramsay. G: H. Clark. por Eng & Min J 118:484 S 27 '24

RAMSAY, Michigan

Water supply

Water-borne typhoid at Ramsay, Mich. Eng N 92:1105 Je 26 '24

RANCIDITY
Quantitative aspects of the Kreis test. G: E. Holm and G: R. Greenbank. Ind & Eng Chem 15:1051-3; 16:518 O '23, My '24
Rancidity and the Kreis test. T. W. Jones. bibliog Soc Chem Ind J (Chem & Ind) 43: 1258-9 D 19 '24
Rancidity of fats. H. E. Fierz-David. Soc Dyers & Col J 41:115 Mr '25
Some factors concerned in the autoxidation of fats; with especial reference to butter fat. G: R. Greenbank and G: E. Holm. Ind & Eng Chem 16:598-601 Je '24

RANDOLPH shoe and leather company
Cancelations; the Randolph shoe and leather company. Harvard Business R 2:367-70 Ap '24

RANNEY process. See Petroleum—Mining process

RAOULT'S law
Relation between deviations from Raoult's law and the partial heats of solution. J. A. V. Butler. Am Chem Soc J 47:117-22 Ja '25

RAPID construction. See Concrete construction—Rapid construction

RAPID transit
Better rapid-transit service. M. B. Lambert. Elec J 22:468-9 O '25
Broader transit planning. Eng N 92:796-7 My 8 '24
Comprehensive transportation plan for Los Angeles. diags plans Elec Ry J 65:731-5 My 9 '25
Education for rapid transit. Pub Serv Management 39:133-5 N '25
Moving masses of people with speed, economy and comfort. M. B. Lambert. Forbes 17:34+ O 15 '25
Planning transportation for the city of the future. J: A. Beeler. il Elec Ry J 66:525-30 S 26 '25
Rapid transit; a vital element in metropolitan transportation. H: M. Brinckerhoff. il diag Elec Ry J 66:499-503 S 26 '25
Report of the A.E.R.A. committee on rapid transit. Elec Ry J 64:598; 66:590-1 O 11 '24, O 10 '25

RAPID transit—*Continued*
Report of the A.E.R.A. committee on unification and co-ordination of all forms of local transportation. Elec Ry J 64:594-6 O 11 '24; Same. Aera 13:357-62 O '24
Train operation by the Interborough. il chart Elec Ry J 65:917-23 Je 13 '25

See also Electric railroads; Elevated railroads; Motor bus lines; Motor buses; Moving platforms; Railroads; Street railroads; Subways; *also* subdivision Rapid transit under names of cities, e.g. Chicago—Rapid transit; New York (city)—Rapid transit; Paris, France—Rapid transit; St Louis—Rapid transit; Springfield, Illinois—Rapid transit

Finance

Financing rapid transit extensions in Hamburg. W. Stein. Elec Ry J 65:655-6 Ap 25 '25
Proposed plan for financing Detroit rapid transit lines. Elec Ry J 62:963-6 D 8 '23; Same cond. Eng & Contr (Ry) 61:131-4 Ja 16 '24

RAPIDASE
Use of rapidase. Color Tr J 16:22-3 Ja '25

RARE earths. See Earths, Rare

RASCHIG'S rings
Füllkörper. F. Singer. Zeit Ver Deutsch Ing 69:789-90 Je 6 '25

RASTRICK, John Urpeth, 1780-1856
The Rastricks—civil engineers. H. W. Dickinson and A. Lee. Engineer 137:253-4 Mr 7 '24

RAT guards (for ships)
Large uses of steel in small ways. il Iron Tr R 76:157-8 Ja 8 '25

RATE setting
Departmental rate setting. K. M. Baker. Ind Management 69:95-7 F '25
Modern management in an ancient industry. T. C. Eckstein. il Ind Management 66:368-72 D '23
Planning the repetitive manufacture of automobile wheels. W: B. Ferguson. il chart diags Management & Adm 7:31-8 Ja '24
Relation of rate setting to cost. Ind Management 68:206 O '24
Setting premium rates. P. J. Rees. Mach 31: 286-8 D '24

See also Piece work; Time study

RATIONAL units. See Lewis's theory of rational units

RATS
Case against the rat. il Nation's Health 7: 116-17 F '25

RATTAN
Rattan used extensively for car seats. B. Berry. Elec Ry J 63:163 Ja 26 '24

RAUVITE
New and known minerals from the Utah-Colorado carnotite region. F. L. Hess. il U S Geol S Bul 750—D:68-70 '24

RAW material industries
Consult our engineers; a service that has grown up in raw material industries. D. Gridley. Ptr Ink M 8:21-2+ Ap '24
Helping the customer to get a better product; the New Jersey zinc company combines research and sales engineering. D. Gridley. Ptr Ink 127:100+ My 8 '24

RAW materials
Raw material inventories. Moody's Inv Serv 17:310-11 S 17 '25
Raw-material trade surveys of the Department of commerce. J. Klein. Am Inst Chem Eng Trans v 15 pt 2:139-49 '23; Abstract. Chem Age 31:573-4 D '23
Raw materials and foodstuffs in the commercial policies of nations. W: S. Culbertson. Ann Am Acad 112:1-145; Supplement. 147-298 Mr '24
Taking advantage of complementary plants. J: A. Piquet. Ind Management 70:313-16 N '25

See also Commercial products; Mines and mineral resources; Rubber; Substitutes; Textile fibers; Wood

RAWHIDE
American gear manufacturers' association Standard rawhide gearing; data sheet. Mach 31:362a Ja '25

RAY consolidated copper company
Merger of Ray consolidated and Chino copper companies awaits approval of stockholders. Eng & Min J 117:179 Ja 26 '24

RAYLEIGH-JEANS law
Absorption of radiation by multiply periodic orbits, and its relation to the correspondence principle and the Rayleigh-Jeans law. J. H. Van Vleck. Phys R 24:330-65 O '24

RAYON. See Silk, Artificial

RAYS

See Alpha rays; Beta rays; Canal rays; Gamma rays; Radiation; X rays

RAZOR blades
Electric furnaces for the heat treatment of razor blades. il diag Engineering 117:713-14 My 30 '24
Large uses of steel in small ways. il Iron Tr R 76:388 F 5 '25

RAZOR industry

See Gillette safety razor company

REA, Samuel
President Rea of Pennsylvania railroad attains the age of seventy and is automatically retired. Comm & Fin Chr 121:1531 S 26 '25; por Ry Age 79:563-6 S 26 '25; Ry R 77:496-9 S 26 '25

REACTANCE
Study of reactance. S. Harris. il diags Radio N 7:66-7+ Jl '25

REACTANCE coils. See Reactors

REACTION, Chemical. See Chemical reaction

REACTIVITY. See Chemical reaction

REACTORS
Abnormal behavior of iron-cored reactors in condensive circuits. H. B. Dwight. diags Elec J 21:324-5 Jl '24
Application of the saturated-core reactor and regulator. D: K. Blake. il diags Am Inst E E J 43:604-7 Jl '24; Abstract. Elec W 84: 220 Ag 2 '24; Discussion. Am Inst E E J 44: 270-6 Mr '25
Current-limiting reactors. W. M. Dann. il Am Inst E E J 43:1050-4 N '24; Same. Power Pl Eng 28:901-3 S 1 '24; Discussion. Am Inst E E J 44:270-6 Mr '25
Current limiting reactors and choke coils. F. C. DeWeese. Power Pl Eng 29:145-6 Ja 15 '25
Current-limiting reactors, their design, installation and operation. F. H. Kierstead and H. O. Stephens. Am Inst E E J 43:1142-3 D '24; Discussion. 44:270-6 Mr '25
Direct-current reactor design. D. C. Prince. Gen Elec R 27:380-3 Je '24
Eight years experience with protective reactors. J. Lyman, L. L. Perry and A. M. Rossman. diags Am Inst E E J 44:601-3 Je '25; Same. Power Pl Eng 29:799-801 Ag 1 '25; Discussion. Am Inst E E J 44:771-4 Jl '25
Formula for use in calculating repulsion of coaxial coils. H. B. Dwight. Elec J 22:389-91 Ag '25
Improving central station service by the application of current-limiting reactors to distribution feeders. D. K. Blake. il diags Gen Elec R 27:361-8 Je '24
Losses in iron under the action of superposed alternating- and direct-current excitations. O. E. Charlton and J. E. Jackson. bibliog il diags Am Inst E E J 44:1220-5 N '25
Lowering unbalances of neutral reactors. H. W. Smith. diag Elec W 84:1058 N 15 '24
Reactance as a means of protection. C: C. Garrard. Electrician 92:478-9 Ap 18 '24
Reactor characteristics; abstracts of A. I. E. E. papers. Elec W 84:10 Jl 5 '24
Reactors save replacing of equipment. Elec W 83:729 Ap 12 '24
Report of A.I.E.E. committee on reactors. Am Inst E E J 44:1231-2 N '25
Series reactance for static condensers. H. M. Jalonack. diags Elec W 84:1003-4 N 8 '24

REACTORS—*Continued*
Theory of d-c. excited iron-core reactors and regulators. A. Boyajian. bibliog il diags Am Inst E E J 43:958-66 O '24; Discussion. 44:270-6 Mr '25

See also Choke coils

Cost

Cost of installing rectifiers and reactors. Elec W 83:678 Ap 5 '24

Specifications

Purchaser's tentative specifications for current-limiting reactors. Am Inst E E J 43:576-7 Je '24

READING, Pennsylvania

Rapid transit

New line at Reading, Pa. il Elec Ry J 64: 382 S 13 '24
Rerouting suburban line to save time. diag Elec Ry J 66:728-9 O 24 '25

Water supply

Alum agitation studies at Reading, Pennsylvania. C: R. Cox. il Eng N 93:101-4 Jl 17 '24

READING company
Annual report, 26th, 1923. Ry Age 76:1794-7 Je 21 '24; Same. Comm & Fin Chr 118:2963-6 Je 14 '24
Annual report, 27th, for the year ended December 31, 1924. Ry Age 78:1121-7 My 2 '25; Same. Comm & Fin Chr 120:2287-92 My 2 '25; Abstract. Ry R 76:879-80 My 9 '25
Development of the anthracite combination. F. Walker. Ann Am Acad 111:234-48 Ja '24

See also Philadelphia & Reading coal and iron company

READY reckoners
Carpenter's instalment loan calculator, 7% monthly payments, monthly compound. J: C. Carpenter. 80p Carpenter calculator co., Houston, Tex. '23
Mercantile calculation tables relating to metals, general merchandise & freights. A. Kirchner. 559p C. Lockwood & son, London '23

REAGENTS, Chemical. See Chemical reagents

REAL estate association, Railway. See Railway real estate association

REAL estate boards
Administration of real estate boards. H. U. Nelson. 255p Macmillan '25

REAL estate business
Appraisal of real estate. F: M. Babcock. 380p Macmillan '24
Challenge—to the public? or to the real estate business? worthless farm lands. J: D. Black. J Land & Pub Util Econ 1:292-9 Jl '25
Dangerous real estate mortgages. S. Bell. Comm & Fin 14:10 Ja 7 '25
How to make money in real estate. S. L. McMichael. 268p Stanley McMichael pub. organization, Cleveland '24
Investment mortage survey; relation of city real estate values to retail sales districts. R. D. Maxwell. Forbes 14:576 Ag 1 '24
Land booms. T. H. Price. Comm & Fin 14: 1619 Ag 26 '25
Making money and keeping the faith. F: Beckmann. il Nation's Business 13:22-5 Je '25
Principles of real estate appraising. C: C. Knox. 75p R. C. Knox, 445 Catalina ave., Youngstown, O. '24
Principles of real estate appraising. J: A. Zangerle. 358p Stanley McMichael pub. organization, Cleveland '24
Principles of real estate practice. E. M. Fisher. 309p Macmillan '23
Real estate. G: W. Kirkman. 338p Southland pub. house, inc., Los Angeles '24
Real estate business as a profession. J: B. Spilker. Rev. ed. 363p Stewart Kidd, Cincinnati '23
Real estate code of ethics. H. U. Nelson. J Land & Pub Util Econ 1:270-5 Jl '25
Real estate handbook. B. Snyder, ed. 724p McGraw-Hill '25
Real estate in all its branches. F. Isman. 307p Appleton '24
Real estate inflation. Moody's Inv Serv 17: 266 Ag 13 '25
Real estate investment of the future. F. F. French. 51p Fred F. French security co., New York '23
Real estate manual for brokers, owners and operators. H. Hall and others, eds. 432p Doubleday '25
Realty values jump when street car service comes. L. F. Eppich. Aera 13:686-8 N '24
Report; 102 plans for closing real estate deals. 3d ed., rev. 160p Shaw '25
Scientific real estate merchandising—the professional ideal. A. G. Hinman. chart J Land & Pub Util Econ 1:478-87 O '25
Transportation sells real estate. il Bus Transportation 4:177-8 Ap '25
Visualizing intangibles to increase sales; photographs of marketable property. A. Schoenberg. il System 45:781-2 Je '24

See also Building sites; Home owning; Land; Land values; Location in business; Mortgages; Real estate boards; Rent

Advertising

Advertising to check inflated financing. Ptr Ink 131:149-50+ Ap 9 '25
Do you really know why people buy? Ptr Ink 129:28+ D 4 '24
Even a realtor can find a new copy angle. Ptr Ink 130:69-70 F 19 '25
Heart-appeal copy scores again. R. Cole. Ptr Ink 132:128-9+ Ag 20 '25
How to merchandise real estate on paper. W. H. Heath. Ptr Ink 128:136+ Jl 24 '24
Kansas City's answer to What's wrong with real estate? Ptr Ink 128:159+ S 11 '24
Real estate advertising. W. C. Gifford. 194p Macmillan '25
What's wrong with real estate? A. Stote. Ptr Ink 128:81-4+ Jl 17 '24
When the "light touch" pays in real estate advertising. H. Sibley. Ptr Ink 126:137-8 F 14 '24

Finance

Financing real estate. R. F. Bingham and E. L. Andrews. 375p [bibliog. p. 367-71] Stanley McMichael pub. organization, Cleveland '24

Florida

Florida—a whole state going to sales school. J. H. Collins. il Ptr Ink M 11:45-6+ N '25
Simply staggering! says Florida. W. B. Powell. il Nation's Business 13:19-22 My '25

Great Britain

Land and property in 1924. Economist 100: 134-5 Ja 24 '25
London property companies. Economist 99: 448-9; 101:567-8 S 20 '24, O 10 '25

United States

Index of real estate activity. Comm & Fin Chr 121:22 Jl 4 '25 [continued monthly]
Why southern real estate doubles and redoubles. F. Adair. il Forbes 15:456-7+ Ja 15 '25

REAL property
Commentaries on the modern law of real property. G: W. Thompson. 7th ed 7v Bobbs '24
Florida real estate law. P. W: Murphy. 252p Royal palm press, Miami, Fla. '25
Treatise on the law relating to real estate in Pennsylvania. V. De W. Nicholson. 772p George T. Bisel co., Phila. '24

See also Land; Land tenure; Land values; Landlord and tenant; Mortgages; Real estate business

REAMERS
American car and foundry reaming machine. il Am Mach 62:980 Je 18 '25; Iron Age 115: 1708 Je 11 '25; Ry R 76:1096 Je 13 '25; Ry Mech Eng 99:589 S '25; Marine Eng 30:552 O '25
Barnes drill co.'s cylinder reaming and honing machines. il Mach 31:825 Je '25

REAMERS—*Continued*
Development of tools provides simpler ways for performing specific operations. W. L. Carver. il Automotive Ind 51:524-5 S 18 '24
Ingersoll cylinder boring and reaming machine. il Am Mach 60:189-90 Ja 31 '24
Lambert expansion reamers and bore-reamers. il Mach 30:731 My '24
Murchey automatic double-end threading reaming and drilling machine. il Am Mach 62:553 Ap 2 '25
Pottstown 6-in. globe valve reaming and tapping machine. il Am Mach 60:564 Ap 10 '24
Reaming compressor bearings. il Elec Ry J 64:23 Jl 5 '24
Red-line expansion reamers. il Mach 31:1010 Ag '25
Tool for reaming crown bolt holes. E. G. Williams. diags Ry Mech Eng 99:515-16 Ag '25
Victor collapsible reamer and tap. il Mach 31:1005 Ag '25

Manufacture

Making Kelly reamers. C: O. Herb. il diag Mach 31:520-3 Mr '25

REAMING
Drilling, boring and reaming with the lathe. G. H. Radebaugh. il diag Brick & Clay Rec 63:924-9 D 25 '23

RECEIVERS
Appointment of receivers. W. R. Montgomery. Credit M 26:26+ Ag '24

Accounting

Accounting for receiverships. E. F. Bohne. Univ J of Business 2:200-10 Mr '24

RECIPROCAL insurance. See Insurance, Reciprocal

RECLAMATION of land
Bombay Back Bay reclamation scheme. il diags maps plan Engineering 120:217-20, 230, 286, 287 Ag 21, S 4 '25
California reclamation district no. 2047. S. E. Gamble. il Eng & Contr (W W) 61:78-81 Ja 9 '24
Co-operative reclamation. Eng N 93:450-1 S 18 '24
Drainage reclaims waterlogged land on old project. H. L. Hancock. il map Eng N 95: 272-3 Ag 13 '25
Dredging and land reclamation. E. Latham. Engineering 118:437-8 S 26 '24
Flax barriers to check drifting sand. il Sci Am 131:255 O '24
Great Seattle tide flats fill. C: E. Fowler. Eng & Contr (Ry) 62:651-3 S 17 '24
Irrigation and drainage laws critically reviewed. R. P. Teele. Eng N 93:788-90 N 13 '24
National reclamation by irrigation. E. Mead. Eng & Contr (W W) 63:326-8 F 11 '25
New reclamation laws under discussion. Eng N 93:521 S 25 '24
Proposed joint committee on reclamation. E. Mead. Eng N 93:644 O 16 '24
Reclaiming tidal flats for residential property. Eng N 95:11 Jl 2 '25
Reclamation an important factor in national economy. Manuf Rec 85:73-4 Ja 24 '24
Sand dune reclamation in Palestine. Engineering 120:549 O 30 '25
South and West unite to promote extension of reclamation. Eng N 91:897-8 N 29 '23
State financing of land reclamation in Wyoming. Eng N 95:73 Jl 9 '25

See also Clearing of land; Dikes (engineering); Drainage; Irrigation; Marshes, Tide; Reclamation service (United States); Zuider Zee

RECLAMATION service (United States)
Congress changing attitude toward reclamation. Eng N 94:208 Ja 29 '25
Important reclamation appropriations lost. Eng N 92:1033 Je 12 '24
New reclamation policy; editorial. Eng N 94:303 F 19 '25
New reclamation progress delayed by unfavorable local conditions. Eng N 95:639-40 O 15 '25
New safeguards sought for reclamation projects. Eng N 93:970 D 11 '24
Notes on western reclamation; summary of an editor's inspection trip. W. W. DeBerard. Eng N 93:898-900, 948-50 D 4-11 '24
Plan for aided reclamation settlement proposed; Senator Kendrick introduces bill. Eng N 93:1011 D 18 '24
Policy for reclamation. Eng N 92:268-9 F 14 '24
Pork-barrel politics attack Reclamation bureau. Eng N 92:874 My 15 '24
Problems of federal reclamation. E. Mead. W Soc E J 30:437-42; Discussion. 443-6 O '25
Reclamation advisers report on needs of projects and policy for future irrigation. Eng N 92:726-9 Ap 24 '24
Reclamation appropriations pass; Kendrick bill fails. Eng N 94:452 Mr 12 '25
Reclamation bureau states policy on landholders' payments. Eng N 95:197 Jl 30 '25
Reclamation colony bill favorably reported; will improve prospects and outlook of settlers—farm experience and limited capital needed. Eng N 94:291 F 12 '25
Reclamation crops and repayments. Eng N 95:195 Jl 30 '25
Reclamation finances tabulated. Eng N 91: 1032 D 20 '23
Reclamation law amended by deficiency act. Eng N 94:129 Ja 15 '25
Reclamation troubles and engineering. J. Wright. Eng N 92:374-5 F 28 '24
Reclamation's trial balance. Eng N 91:1002-3 D 20 '23
Spent the 200 millions, but—; the most important factor in the government's irrigation plan, the human being, had been overlooked. H: Schott. il Nation's Business 13: 27-30 Jl '25
Uncle Sam, realtor. F: Simpich. il Nation's Business 12:23-4 Je '24
Why reclamation costs differ from original estimates. Eng N 91:1058-9 D 27 '23
Wrecking reclamation. Prof Eng 9:22-3 N '24

RECONSTRUCTION (Civil war)
South and reconstruction. R. H. Holliday. Manuf Rec 86:166-8 pt 2 D 11 '24

RECONSTRUCTION (European war)
Reconstruction of Europe. L: Aubert. 180p Yale univ. press, New Haven '25

France

Expenditures of France for reconstruction. R. Masson. Comm & Fin Chr 121:787 Ag 15 '25
France—its attitude toward Germany—its reconstruction achievement. E. J. Mehren. Eng N 93:461-2 S 18 '24; Same. Chem & Met Eng 31:457-8 S 22 '24; Same cond. Elec W 84:819-20 O 11 '24
Industrial and social reconstruction in the hands of a great French railway. Comm & Fin Chr 121:1281-3 S 12 '25
Reconstruction in the devastated regions of France. E. A. Welden. Econ W n s 28: 616-17 N 1 '24
Reconstruction progress in France. Eng N 92:205 Ja 31 '24

RECORDING instruments
Brown instrument company new electrical recorder. T: R. Harrison. il diag Am Cer Soc J (Bul) 8:545-8 O '25
Foster continuous chart recorder. il diags Engineering 119:176-7 F 6 '25
Improved movement for recording instruments. il Chem & Met Eng 30:834-5 My 26 '24
Der mehrfarbenschreiber der Hartmann & Braun A. G. il diag Elektrotech Zeit 45: 1351-2 D 4 '24
Uses of recording instruments. Paper 35: 309-10 D 11 '24
Uses of recording instruments. M. A. Goetz. Paper 34:280-1 Je 5 '24

RECORDS
Destroying records. F. Rowland. Spectator 113:33+ O 2 '24
How we get up-to-the-minute production control. C. H. Smith. il System 45:336-8+ Mr '24

RECORDS—*Continued*
Manufacturing procedure simplified. J: R. Bangs. Management & Adm 10:213-16 O '25
Our new method that makes delivery promises mean something. H. W. Ross. System 45: 790-1+ Je '24
Standard data sheets for machine tool builders and users. A. L. Evans. Am Mach 60: 381-6 Mr 13 '24; Same. Iron Tr R 74:1499-1503 Je 5 '24
We know our earnings daily. S. C. Greusel. il System 46:720-2+ D '24
Workable production control plan for the small plant. A. A. Dobson. il Factory 32:652-4 My '24
Works records department. W. J. Hiscox. Ind Management (Lond) 10:323-5, 354-5; [cont. as] Cassier's Ind Management 11:6-7, 67-9, 151-2, 265-6 D 13 '23-Ja 10, F 7, Mr 20, My 15 '24

See also Accidents, Industrial—Records; Accounting; Boiler plants—Records; Business records; Electric shops (repair)—Records; Factory management; Files and filing (documents); Forms and blanks, Business; Gantt charts; Gas companies—Records; Photographic records; Power plants—Records; Printing, Practical—Records; Progress records; Railroads—Forms, blanks, etc.; Railroads—Records; Sales records; Stores systems; Time keeping

RECORDS, Care of
Are your records an asset? H. P. Weaver. Credit M 26:13+ O '24
Assets or ashes after the fire? R. C. Willoughby. il Nation's Business 13:45-6 My '25
Covering what fire insurance can't cover. R. S. Moulton. il System 44:741-3+ D '23
Credit asset. W: Gregg. Credit M 27:16-17+ My '25
Have you protected your uninsurable assets? report of committee on protection of records. il Safety Eng 46:212-16 N '23
In the land of the fire. E: F. Fane. il Credit M 26:9-11+ O '24
Protection of documents and valuable records against fire. H. P. Weaver. Safety Eng 47: 20-4 Ja '24
Protection of records; report of the committee of the National fire protection association. Safety Eng 47:300-6; 48:14-18, 60-2 Je-Ag '24; Discussion. 48:62-4+ Ag '24

See also Filing cabinets

RECORDS, Visible
Making credit records visible. R. W. Sherman and others. Credit M 27:12-14 Ja '25

RECREATION
Advertising value of community recreation. E. T. Lies. Munic Eng 67:144-8 Mr '24
City where life is worth living. C. E. Brewer. il Nation's Health 7:313-15 My '25
City worker's spare time in the United States. Int Labour R 9:896-916 Je '24
New values in community play and recreation. H. D. Meyer. il Nation's Health 6:15-17 Ja '24
Organized recreation's contacts with safety. W. W. Pangborn. Nat Safety N 12:32 Jl '25
Platform of play adopted by the Playground and recreation association of America. Nations' Business 13:25 F '25
Recreation grounds popular with Minute tapioca company employees. il Nation's Health 7:272-3 Ap '25
Why safety and recreation belong together. A. W. Whitney. il Nat Safety N 11:31-2 Ap '25

See also Leisure; *also* National conference on outdoor recreation

RECREATION centers
Coppin recreation center, Philadelphia; views and plans. Am Arch 128:pl 294-5 N 5 '25
Putting health values into public recreation; Holstein Park, Chicago. T. Sleszynski. il Nation's Health 6:311-12+ My '24
Your playground a business asset. W: Butterworth. Nation's Business 12:40-1 Mr '24

See also Community centers

RECRYSTALLIZATION. See Crystallization

RECTIFICATION
Distillation et rectification; mélange de benzène, toluène et métaxylène. L. Gay. Chimie & Ind 10:811-28, 1026-42 N-D '23
Graphical rectifying column calculations. E. V. Murphree. Ind & Eng Chem 17:960-4 S '25
Rectifying column calculations with particular reference to *N* component mixtures. E. V. Murphree. Ind & Eng Chem 17:747-50 Jl '25

RECTIFIERS. See Electric current rectifiers

RECUPERATORS. See Furnaces, Recuperative and regenerative

RED
Red dye from jiquitaba. C. D. Mell. il Textile Col 47:708-9 N '25
Red dyestuffs; tables. Soc Dyers & Col J 41: 128-30 Ap '25
Special reactions of the bright cotton reds. C. F. Green. Textile Col 47:440 Jl '25

See also Paranitraniline red; Vital red

RED CROSS
First aid to injured business. J: B. Payne. il Nation's Business 13:62+ N '25

RED lead
Compressed oxygen for lead oxide manufacture. Chem Age 32:244 My '24
Production of antimony and lead. Metal Ind 22:141-2 Ap '24

RED oil. See Oleic acid

RED river valley, Texas
Investigation on the Red river made in connection with the Oklahoma-Texas boundary suit. E. H. Sellards, B. C. Tharp and R. T. Hill. 174p The University, Austin, Tex. '23

RED-shortness of iron. See Iron—Red-shortness

RED-shortness of steel. See Steel—Red-shortness

REDMANOL
New method of preparing briquetted mineral grains for miscroscopic study. R. E. Head. Eng & Min J 119:889-90 My 30 '25

REDUCTION, Chemical
Fission of the pyridine nucleus during reduction. B. D. Shaw. Chem Soc J 125:1930-4 S '24
Fission of the pyridine nucleus during reduction; the preparation of glutardialdoxime. B. D. Shaw. Chem Soc J 127:215-16 Ja '25
Irreversible reduction and catalytic hydrogenation. J. B. Conant and H. B. Cutter. J. Phys Chem 28:1096-1107 O '24
Irreversible reduction of organic compounds; the relation between apparent reduction potential and hydrogen-ion concentration. J. B. Conant and R. E. Lutz. Am Chem Soc J 46:1254-66 My '24
Mechanism of reduction of azobenzene by organomagnesium halides. H: Gilman and R. M. Pickens. Am Chem Soc J 47:2406-16 S '25
Method of measuring the reduction potentials of quinhydrones. E. Biilmann, A. L. Jensen and K. O. Pedersen. Chem Soc J 127: 199-208 Ja '25
Oxidation and reduction. H. P. Cady and R. Taft. J Phys Chem 29:1057-74 S '25
Platinum and palladium oxides as catalysts in the reduction of organic compounds; the reduction of olefins. J. W. Kern, R. L. Shriner and R. Adams. Am Chem Soc J 47: 1147-58 Ap '25
Platinum oxide as a catalyst in the reduction of organic compounds; a study of the effects of numerous substances on the platinum catalysis of the reduction of benzaldehyde. W. H. Carothers and R. Adams. Am Chem Soc J 47:1047-63 Ap '25
Platinum oxide as a catalyst in the reduction of organic compounds; reduction of aminophenols to cyclic amino-alcohols. H. Heckel and R. Adams. Am Chem Soc J 47:1712-18 Je '25
Platinum oxide as a catalyst in the reduction of organic compounds; the reduction of alkyl furyl carbinols. J. S. Pierce and R. Adams. Am Chem Soc J 47:1098-1104 Ap '25

REDUCTION, Chemical—*Continued*
Quantitative reduction by hydriodic acid of halogenated malonyl derivatives; a study of the mechanism of the reaction. R. W. West. Chem Soc J 125:710-21 Mr '24
Recent studies on reversible oxidation-reduction in organic systems. M. Clark. Chem R 2:127-78 [bibliog. p. 175-8] Ap '25
Reducing action of hydrogen adsorbed in silica gel. M. Latshaw and L. H. Reyerson. Am Chem Soc J 47:610-12 Mr '25
Reduction of metals from their salts by means of other metals in liquid ammonia solution. C: A. Kraus and H. F. Kurtz. Am Chem Soc J 47:43-60 Ja '25
Reduction of nickelous and ferric oxides by hydrogen. A. F. Benton and P. H. Emmett. Am Chem Soc J 46:2728-37 D '24
Reduction of phenylhydrazones. R. C. Goodwin and J. R. Bailey. Am Chem Soc J 47:167-74 Ja '25
Reduction of the carbocyanines. F. M. Hamer. Chem Soc J 127:211-14 Ja '25
Second report of the committee on contact catalysis; effect of oxygen on reduction. W. D. Bancroft. J Phys Chem 27:814-27 D '23; Same. (Reprint & Circ. Ser. 50) p. 814-27 50c National research council, 1701 Massachusetts av, Washington, D.C.
Some electrochemical aspects of the oxidising properties of sulphur dioxide. S. R. Carter and F. James. Chem Soc J 125:2231-40 N '24
Studies on catalysis; the behavior of the amino group when cytosine and nitro-uracil are reduced in the presence of colloidal platinum. E. B. Brown and T. B. Johnson. Am Chem Soc J 46:702-8 Mr '24
Titanous salts as reducing agents. E. Knecht. Chem Soc J 125:1537-46 Jl '24; Abstract. Soc Dyers & Col J 40:341-2 O '24
Use of cool solutions in the Jones reductor. G. E. F. Lundell and H. B. Knowles. Ind & Eng Chem 16:723-4 Jl '24

See also Hydrogenation

REDUCTION, Electrolytic
Electro reduction of diacetone alcohol. R. R. Read and F. A. Fletcher. Am Electrochem Soc Trans v 47 (preprint 10):127-31 Ap '25
Electrolytic preparation of semicarbazine sulfate. L: J. Bircher and others. Am Chem Soc J 47:391-4 F '25
Electrolytic reduction of beta-anthraquinone sulfonic acid. A. R. Ebberts and A. Lowy. Am Electrochem Soc Trans v 45 (preprint 12):173-9 Ap '24
New type of reduction-oxidation system; cysteine and glutathione. M. Dixon and J. H. Quastel. Chem Soc J 123:2943-53 N '23
Studies on oxidation-reduction. M. X. Sullivan, B. Cohen and W. M. Clark. 52p U.S. Pub. health service, Washington '23
Studies on reactions relating to carbohydrates and polysaccharides: the electrolytic reduction of carbonyl derivatives. H. Hibbert and R. R. Read. diags Am Chem Soc J 46:983-99 Ap '24

REDWOOD
Interesting sources of natural dyestuffs; redwood. C. D. Mell. Textile Col 46:444-5 Jl '24
Redwood block floor for various uses. Eng & Contr (Bldgs) 64:202 Jl 22 '25

REELS
Reeling of yarn. Textile World 67:3289+ My 16 '25

REELS, Electric cable. See Electric cable reels

REESE, Charles L.
Newly elected president of the American institute of chemical engineers. por Chem & Met Eng 30:4 Ja 7 '24

REFERENCE books

See also Directories—Bibliography; Engineering handbooks; Yearbooks—Bibliography

Bibliography

Bookman's reading and tools. H. W: Wilson. 53p H. W. Wilson co. '25
Catalogue des ouvrages mis à la libre disposition des lecteurs dans la salle de lecture de la section des imprimés. 94p Bibliothèque royale de Belgique, Brussels '23
Guide to the use of libraries. M. Hutchins, A. S. Johnson and M. S. Williams. 3d ed. 251p H. W. Wilson co. '25
Handbuch der bibliographie. G: Schneider. 544p K. W. Hiersemann, Leipzig '23
Some reference books of 1923. I. G. Mudge. Lib J 49:15-25 Ja 1 '24
Some reference books of 1924. I. G. Mudge. Lib J 50:15-28 Ja 1 '25
Verzeichnis der handbibliothek des druckschriftenlesesaales der Nationalbibliothek in Wien. 295p Nationalbibliothek, Vienna '23

REFLECTION (optics)
Effect of temperature on the anomalous reflection of silver. M. de Selincourt. J Fr Inst 200:218 Ag '25
Nature of the disturbance in the second medium in total reflexion. C. V. Raman. Philos Mag 6th ser 50:812-15, pl 27 O '25
Reflection of light from lustrous materials. W: S. Denham and T: Lonsdale. il diags Textile Inst J 15:T453-63 O '24
Reflexion of plane polarized light by etched metals. O. Jones. Philos Mag 6th ser 48: 207-16, pl 5 Jl '24
Reflexion of waves penetrating normally into a stratified medium. J. A. Wilcken. Philos Mag 6th ser 49:107-12 Ja '25
Ultra-violet reflecting power of some metals and sulphides. W. W. Coblentz and C. W. Hughes. U S Bur Stand Sci Pa 493:577-85 '24

See also Crystallography—X-ray studies; Opalescence; Reflectors; X Rays

REFLECTOMETER
Integrating sphere reflectometer. J: W. T. Walsh. Illum Eng Soc 18:475-80 My '23; Discussion. 19:130-4 F '24

REFLECTORS
Chromium found to be satisfactory as coating for reflectors. Automotive Ind 53:449-50 S 17 '25
Clean reflectors essential in lighting. A. J. Thompson. Iron Tr R 75:1314 N 13 '24
Controlled adjustable illumination. il diag Elec R (Lond) 93:991-2 D 28 '23
Discourages use of dome reflectors for high mounting. D. H. Tuck. diags Elec W 85: 718 Ap 4 '25
Headlight reflector made in halves. diags Automotive Ind 52:794 Ap 30 '25
Polishing reflector bowls. il diag Mach 30:298 D '23
Studies in the projection of light; design data of ellipsoids and hyperboloids. F. Benford. Gen Elec R 28:526-35 Jl '25
Vérification des réflecteurs pour projecteurs d'automobiles. A. Marsat. diags Génie Civil 86:267-8 Mr 14 '25

REFLEXES
Human behavior and reflexes. I. P. Pawlow. Sci Am 130:319 My '24

REFORESTATION. See Forests and forestry—United States

REFORMED gas. See Gas mixing

REFRACTION
Refraction of a spherical wave in a spherical interface. I. Roman. Phys R 25:550-7 Ap '25
Stress-optical coefficients for direct tension and pressure measured in the case of glass. S. R. Savur. bibliog diags Philos Mag 6th ser 50:453-63 Ag '25

REFRACTION, Atomic
Relation between the refractivities and the sizes of the atoms of certain elements. J. E. Calthrop. Philos Mag 6th ser 47:772-9 Ap '24

REFRACTION, Molecular
Refraction and electron constraint in ions and molecules. C: P. Smyth. Philos Mag 6th ser 50:361-75 Ag '25

REFRACTIVE index
Examination of the refractive indices of motor fuels with regard to their aromatic contents. W. N. Hoyte. Inst Pet Tech J 11:76-80 F '25
Index of refraction of calcite for X-rays. C. C. Hatley. diags Phys R 24:486-94 N '24
Maxwell's electromagnetic æther and the Michelson-Morley experiment. A. Press. Philos Mag 6th ser 50:809-12 O '25
Refractivity and the molecular phase hypothesis. E. C. C. Baly and R. A. Morton. J Phys Chem 28:659-67 Je '24
Refractometric studies of neutralization. F: S. Hammett. J Fr Inst 199:91-8 Ja '25
Relation between the critical potentials and the indices of refraction of elements and compounds. B. Davis. Phys R 26:232-40 Ag '25
Simple method for determining the approximate index of refraction of liquids with a common microscope. C. C. Kiplinger. Chem Soc J 125:963-5 Ap '24

REFRACTORIES manufacturers' association

Mellon institute fellowship
What fellowship work has done for fire brick. il Brick & Clay Rec 65:685-7 N 11 '24

REFRACTORY materials
L'action de l'oxyde de carbone sur les briques réfractaires. Génie Civil 84:457-8 My 10 '24
American ceramic society convention, Atlantic City, N.J., Feb. 4-9. Iron Age 113:596-7, 652 F 21-28 '24
American ceramic society symposium on foundry refractories. Iron Age 115:612-14 F 26 '25; Iron Tr R 76:601 F 26 '25; Brick & Clay Rec 66:352-5 Mr 3 '25
Artificial sillimanite as a refractory. H. Wilson, C. E. Sims and F: W. Schroeder. il Am Cer Soc J 7:842-55, 907-19 [bibliog. p. 917-18] N-D '24
Autumn meeting of the Refractory materials section of the Ceramic society, London, Sept. 16-17. Engineering 120:382-3 S 25 '25; Gas J (Lond) 171:814-17 S 30 '25; Soc Chem Ind J (Chem & Ind) 44:974-5 O 2 '25
Behavior of refractories in glass melting furnaces. H. Insley. il Am Cer Soc J 7:583-93 Ag '24
Bonding high-temperature refractories. R. C. Gosreau. Chem & Met Eng 31:696-8 N 3 '24
Ceramic society; 14th meeting of the Refractory section. Engineering 118:460-1, 481-2 S 26-O 3 '24; Gas J (Lond) 167:935-6 S 24 '24; Soc Chem Ind J (Chem & Ind) 43:985-6 O 3 '24
Ceramic society; the spring meeting of the Refractory materials section. Soc Chem Ind J (Chem & Ind) 44:581-3 Je 5 '25
Checker brick for resisting alkaline slags. M. C. Booze and F. C. Flint. il Am Cer Soc J 7:594-8 Ag '24
Clay convention, Buxton, May 26. Engineering 119:682-3, 716 My 29-Je 5 '25
Common sense and common refractories. M. C. Booze. Chem & Met Eng 31:1003-5 D 29 '24; Discussion. 32:289-90 F 16 '25
Compare steel refractories. E. C. Kreutzberg. Foundry 52:175-6 Mr 1 '24
Considerations necessary in selection of refractories for the open hearth. S. Cornell, C. E. Williams and others. il Am Cer Soc J 7:670-705; Discussion. 705-16 S '24
Dolomite as refractory material. T. N. Leslie. Eng & Min J 120:177 Ag 1 '25
Effect of variations in cupola practice on the life of the refractory blocks. J. T. MacKenzie. Am Cer Soc J 8:720-33 N '25; Same. Foundry 53:267-71 Ap 1 '25; Discussion. Am Cer Soc J 8:733-4 N '25
Electrical resistivity of refractories. A. V. Henry. il Am Cer Soc J 7:764-82 O '24
Failure of thermocouple protection tubes in glass melting furnaces. H. Insley. il Am Cer Soc J 8:605-10 S '25
Fuel oil; properties of refractories. J. B. Rathbun. Pet Age 15:59 Mr 1 '25
Furnace ash as a refractory material. H. E. Weightman. il Power 62:557-60 O 13 '25; Abstract. Mech Eng 47:1150-1 D '25
Furnace linings. G. B. Randall. il Power 60: 146-7 Jl 22 '24
Getting double duty from fire brick; crushed firebrick for burner blocks. H. M. Thompson. il Iron Tr R 76:1380 My 28 '25; Same cond. Iron Age 115:1644 Je 4 '25
Glass and refractories symposium. diags Am Cer Soc J (Bul) 8:601-10 N '25
Granular refractory material. diags Chem & Met Eng 30:440 Mr 17 '24
Lowering furnace upkeep. F. Juraschek. il Ind Management 70:48-52 Jl '25
Making long life molds. O. Smalley. Foundry 52:294-7 Ap 15 '24
Malleable refractory needs. H. A. Schwartz. Foundry 53:203-4 Mr 1 '25
Les matériaux réfractaires siliceux et alumineux au point de vue de leur emploi dans les industries du coke et du gaz. G. Bia. Génie Civil 85:39-40 Jl 12 '24
New use for refuse refractory material. S. F. Walton. il Iron Age 113:786-8 Mr 13 '24
Power plant chemistry; abstract. W. M. Miles. Elec R (Lond) 95:36 Jl 4 '24
Preliminary findings in refractory investigations. R. A. Sherman and others. Power 62: 234-7, 277-80 Ag 18-25 '25; Discussion. M. C. Booze. 62:776 N 17 '25
Progress report on the use of andalusite as a refractory. R. Twells, jr. Am Cer Soc J 8:485-9; Discussion. 490-2 Ag '25
Reducing the cost of relining boiler furnaces. il Power 59:1028-30 Je 24 '24
Refractories for boilers. L. Litinsky. Am Cer Soc J 8 (Cer A 4):105-6 Ap '25
Refractories for coke ovens. W. J. Rees. Am Cer Soc J 7(Cer A 3):266-8 S '24
Refractories question box. E. E. Ayars. Am Cer Soc J (Bul) 7:162-8, 392-7, 443-50 My, O-N '24
Refractories used in aluminum melting. R. J. Anderson. Foundry 52:357-8 My 1 '24
Refractories users study furnace conditions. L. S. Longenecker. il diag Iron Tr R 76: 26-7 Ja 1 '25
Refractory classification and characteristics. H. W. Brooks. Power 61:475 Mr 24 '25; Same. Brick & Clay Rec 66:763 My 12 '25
Refractory gun for coating furnace walls. il Power 60:592 O 7 '24
Refractory linings for furnaces. J. C. Martin, jr. Power 59:465 Mr 18 '24
Refractory materials. Chem & Met Eng 31: 785 N 17 '24
Refractory materials for steelworks. diags Chem Age (Lond) 10:sup10-12 F 2 '24
Refractory output and prices steady. Iron Tr R 74:93-4 Ja 3 '24
Refractory session of A.I.M.M.E. discusses dolomite clinker. Iron Age 116:1112-13 O 22 '25
Report of refractory materials joint research committee. il diags Gas J (Lond) 167:sup 17-36; Discussion. 36-8 Jl 9 '24
Report of sub-committee on refractories. Am Gas Assn Technical sec v 6:822-9; Discussion. 905-7 '24
Report of the refractory materials joint research committee. Gas J (Lond) 171:sup14-49; Discussion. sup50-2 Jl 22 '25
Research on refractories is progressing. R. E. Ferguson. il Iron Tr R 74:22-3 Ja 3 '24
Retorting and refractory materials. V. E. Harston. diags plan Gas J (Lond) 166:530-4; Discussion. 534-5 My 21 '24
Selection factors in choosing refractories for industrial plant use with table of physical and chemical properties. O. A. Hougen. Chem & Met Eng 30:737-41 My 12 '24
Service affects life of linings. C: A. Smith. Iron Tr R 74:546-7+ F 21 '24; Same. Foundry 52:177-8 Mr 1 '24
Some fundamental principles governing the corrosion of a fire clay refractory by a glass. R. B. Sosman. diags Am Cer Soc J 8: 191-203; Discussion. 203-4 Ap '25
Some notes on refractory materials; abstracts. V. C. Faulkner. Chem Age (Lond) 12:179 F 21 '25; Foundry 53:271 Ap 1 '25
Survey refractories in malleable industry. Foundry 53:598+ Ag 1 '25

REFRACTORY materials—*Continued*
Thermal conductivities of some refractory materials. il diag Am Cer Soc J 7:19-28 Ja '24; Discussion. J. S. McDowell. (Bul) 7:345-6 S '24
Typical analyses of miscellaneous commodities used in foundry practice; refractories. J. M. Quinn. Foundry 52:688a, 720a, 776a S 1-O 1 '24

See also Carborundum; Chrome brick; Electric furnaces—Refractories; Fire brick; Fire clay; Magnesite; Saggers; Silica; Silica brick; Silit; Sillimanite; Zirconia

Analysis

Analysis of refractories. C. A. Underwood. bibliog Am Cer Soc J 6:1263-7 D '23
Method for the analysis of aluminous silicate refractories. E: P. Barrett and F: W. Schroeder. Am Cer Soc J 8:69-71 Ja '25

Bibliography

Bibliography of magnesite refractories. 41p American ceramic society, Refractories division, Columbus, O. '24
Bibliography of silica refractories. 125p American ceramic society, Refractories division, Columbus, O. '24

Manufacture

Adaptation of tunnel and car kilns to firing refractories. P. Dressler. il diags Am Cer Soc J 8:43-54 Ja '25
Dressing burned refractories. il Brick & Clay Rec 64:724-5 My 13 '24
Firing of refractory products in France. R. V. Widemann. Am Cer Soc J 7:29-33 Ja '24
Lesson in modern manufacturing; refractories by the mile. il Chem & Met Eng 31: 766-8 N 17 '24
Making of dolomite brick and a study of their properties. A. I. Andrews, G: A. Bole and J. R. Withrow. il diag Am Cer Soc J 8:84-100, 171-90 F-Mr '25
Manufacture of refractories by dry press method. E. Hagar. Am Cer Soc J 8:122-4 F '25
Utilization of dolomite for refractories. G. A. Bole. U S Bur Mines Rep of Invest 2627:1-11 Jl '24 (typew)

Patents

Trend of development in the refractory industry. Chem & Met Eng 30:480-1 Mr 24 '24

Testing

Check tests on "glassteel" lighting unit. Elec W 82:1020 N 17 '23
Erforschung und prüfung der feuerfesten baustoffe für die hüttenindustrie in Deutschland. E. H. Schulz. il diag Stahl & Eisen 45:1733-9, 1777-81 O 15-22 '25
Influence of oxidizing and reducing atmospheres on refractory materials. A. E. J. Vickers and L. S. Theobald. bibliog diags Gas J (Lond) 171:sup27-30 Jl 22 '25
Laboratory testing of aluminous refractories. R. F. Geller. il Am Cer Soc J 7:663-9 S '24
Laboratory testing of plastic refractories. R. F. Geller and W. L. Pendergast. Am Cer Soc J 8:441-51 Jl '25
Ein neues verfahren zur prüfung feuerfester stoffe durch anfärben. E: Steinhoff and F. Hartmann. Stahl & Eisen 45:337-43, pl 8 Mr 5 '25
Notes on testing for refractoriness and after-contraction; a few experiences with refractories in vertical retorts. T. F. E. Rhead and R. E. Jefferson. il diags Gas J (Lond) 171:sup31-41 Jl 22 '25
Proposed method for studying the attack of molten slags and glasses upon refractory materials. C: I. Rose. Am Cer Soc J 6: 1242-7 D '23
Quantitative laboratory slag test. F. H. Norton. il Am Cer Soc J 7:599-602 Ag '24
Relation between ordinary refractoriness, under-load refractoriness, and composition, physical and chemical, of refractory material. A. J. Dale. il diag Gas J (Lond) 167:sup 18-23 Jl 9 '24
Relation of structure and composition to thermal efficiency of refractories when used in regenerators. S. M. Phelps. diags Am Cer Soc J 8:648-54 O '25
Some fallacies to be avoided in the standardization of any method of testing the load-bearing capacities of refractories at high temperatures; and a suggested method for standardization. A. J. Dale. bibliog Gas J (Lond) 171:sup46-9 Jl 22 '25
Study of refractory materials for sulphate smelting furnaces. W: M. Walker. diag Paper Tr J 79:43-6 Ag 21 '24
Die widerstandsfähigkeit feuerfester baustoffe gegen temperaturwechsel. E. P. Bauer. diags Zeit Ver Deutsch Ing 69:1364-5 O 24 '25
Die widerstandsfähigkeit feuerfester baustoffe gegen temperaturwechsel. W. Steger. diag Stahl & Eisen 45:249-59 F 19 '25

See also Fire brick—Testing; Fire clay—Testing

REFRIGERANTS
Comparison of thermodynamic characteristics of various refrigerating fluids, with reference to their adaptability for both positive and centrifugal compression. W. H. Carrier and R. W. Waterfill. diags Refrig Eng 10:415-23; Bibliography. 423-4 Je '24
Organic refrigerating brines. H. F. Zoller. Ind & Eng Chem 16:1073-5 O '24
Properties of refrigerants. H. D. Edwards. il diags Refrig Eng 11:95-116 S '24
Reinhartin refrigerating brine. C: H. Herter. Refrig W 59:25-6 Je '24
Use of propane for refrigeration. H. D. Edwards. charts Am Inst Chem Eng Trans v 14:423-8; Discussion. 428-33 '21-'22

See also Ammonia; Calcium chloride; Carbon dioxide; Ethyl chloride; Helium, Liquid; Hydrogen, Liquid; Methyl chloride; Sulfur dioxide

REFRIGERATING engineers

Directories

Alphabetical list of members of American society of refrigerating engineers. Refrig Eng 12:24-42 Jl '25

REFRIGERATING machines, Domestic
Autofrigor refrigerating machine. diags plan Engineering 117:104-5 Ja 25 '24
Disadvantages of household machines. V. H. Greene. Refrig W 59:13-15+ D '24
Engineering phases of the household refrigerating machine. Refrig Eng 12:53 Ag '25
Gas refrigeration—why and how. H. Valentine. Gas Age 56:541-3+ O 10 '25
Getting this gas refrigeration business. F. W. Parsons. Gas Age 55:863-4+ Je 20 '25
Household machine as a competitor of ice. J. F. Nickerson. Refrig W 60:16-18 Ap '25
Household refrigerating machine. J. T. Lagergren. Refrig Eng 12:129-30 O '25
Iceless refrigeration with gas looms large. F. W. Parsons. Gas Age 55:809-10 Je 6 '25
Interesting sidelights on household refrigeration. O. L. Kowalke. diag Gas Age 55:423-4 Mr 21 '25
Refrigeration and its relation to the gas industry. H. E. Keeler. Gas Age 56:421-2, 609-10+ S 26, O 24 '25
Report of Electric refrigeration committee, 1924-25, National electric light association; abstract. diags Refrig Eng 12:14-17 Jl '25
Safety provisions for household mechanical refrigerators. F. D. Peltier. Refrig Eng 11: 80-1 Ag '24
Small domestic refrigerating machines; abstract. C. Schlumberger. Mech Eng 46:907-8 D '24

See also Refrigerators, Electric

Directories

Journal of electricity appliance directories. J Elec 55:292 O 15 '25

REFRIGERATING plants
Careless operation in the refrigerating plant. R. L. Tullis. Power 62:450 S 22 '25

REFRIGERATING plants—*Continued*
Cooling-water supply important in refrigeration work. A. W. Farrall. Power Pl Eng 28:963-4 S 15 '24
Evaporating systems for refrigerating plants. W: F. Davis. Power 58:1028-9 D 25 '23
Fifty-ton refrigerating plant for processing cotton. F. L. Fairbanks. diags Refrig W 60:17-18 Jl '25; Same. Refrig Eng 12:5-6+; Discussion. 9 Jl '25
Hints on refrigerating plant operation. J: W. Neff. Power Pl Eng 28:1264-6 D 15 '24; Excerpts. Power 60:975 D 16 '24
Ice-making and cold-storage plants in Mexico, Central America and West Indies. U S Bur For & Dom Com Trade Information Bul 229:1-66 '24
Keeping the refrigerating plant in continuous operation. H. P. Hill. Power 59:190-1 Ja 29 '24
Method of automatic control of low temperatures employed by the United States Department of agriculture; abstract. J: T. Bowen. Refrig Eng 10:434-5 Je '24
New man runs an ammonia refrigerating plant. Power 59:44-5, 340 Ja 8, F 26 '24
Operation of refrigeration plants. C: H. Herter. Power 61:602 Ap 21 '25
Poor designing in a refrigeration plant. R. L. Tullis. Power 61:298-9 F 24 '25
Preventing high pressures in refrigerating plants. J. Spugg. diag Power 58:764 N 13 '23
Refrigerating plant of the Deppen mfg. co. at Reading, Pa. K. Van de Cop. il Refrig W 60:9-10 S '25
Refrigerating plant operation. Power Pl Eng 28:354-5, 450-1 Mr 15, Ap 15 '24
Scheme for heating buildings with refrigerating plants. R. F. Yates il plan Heat & Ven 21:47-8 My '24
Small refrigerating plant predominates. Power 59:20-1 Ja 1 '24
Small refrigerating plants and the thermodynamical properties of refrigerating liquids. E. Griffiths and J. H. Awbrey. Refrig W 60: 15-16 My '25; Discussion. 60:14 Jl '25
Washington's storage plant. il diag plans Refrig W 59:13-18 F '24
Why the small refrigerating plant predominates in California. H. L. Lincoln. il Power 59:217-18 F 5 '24

See also Cold storage warehouses; Electricity in refrigeration; Ice—Manufacture; Refrigeration and refrigerating machinery

Equipment

Action of calcium chloride brines on galvanized coatings. A. C. White. il Ind & Eng Chem 17:503-5 My '25; Abstract. Refrig Eng 12:10-11 Jl '25
Ammonia liquid gage. M. C. Cockshott. diag Power 61:839 My 26 '25
Different drives for refrigerating machines. T. Mitchell. il Power 62:287-9 Ag 25 '25
Flow meter needed for refrigerating plant. Power 60:373, 545-6, 700-1, 775-6 S 2, 30, O 28, N 11 '24
Notes on the design of automatically controlled refrigerating plants. W: J. Lewis, jr. Refrig Eng 10:243-6; Discussion. 246-7+ Ja '24
Oil engines for refrigerating plants. H. E. Chambers, jr. Power 61:62-4 Ja 13 '25

Repair

Emergency refrigerating-plant repair. C. M. Lambert. diag Power 59:103 Ja 15 '24
Engineering in the tropics. D. McFee. diags Power 62:725-8 N 10 '25
Insuring the refrigerating plant against shutdown. H. M. Toombs. Power 59:166-7 Ja 29 '24; Same. Refrig W 59:23-4 My '24

Safety devices and measures

See Refrigeration and refrigerating machinery—Safety devices and measures

Testing

Additional data regarding the reliability of fluid meters in refrigerating tests. L. S. Morse. diags Refrig Eng 10:385-97; Discussion. 398-404 My '24
Steady vs. unsteady test conditions. Refrig Eng 10:237-41 D '23
Test code for refrigerating systems. Refrig Eng 11:365-71 Ap '25; Same. Mech Eng 47: 365-70 My '25
Testing an ammonia refrigerating plant. C: H. Herter. diag Power 58:846-9 N 27 '23

REFRIGERATION and refrigerating machinery
Absorption refrigerating machine. G. T. Voorhees. 175p Nickerson & Collins co., Chicago '24
Advent of the compound compression refrigerating system. L: J. Sforzini. diag plan Power 60:172-4 Jl 29 '24
Application of refrigeration processes to the production of natural gasoline. E. F. Burton. diags Refrig Eng 11:83-90 S '24
Care and operation of shell type brine coolers. F. M. Bennett. il diag Power Pl Eng 29:858-9 Ag 15 '25
Charging ammonia system. W. H. Howze. diag Power Pl Eng 28:1220 D 1 '24
Charging ammonia systems. A. K. Vradenburgh. diag Power Pl Eng 28:914-15 S 1 '24
Chemical treatment of refrigeration brines to prevent corrosion. E. P. Poste. Ind & Eng Chem 17:131-3 F '25; Same. Refrig Eng 11: 355-7 Ap '25
Coefficient of performance of refrigerating machines employing throttle expansion. A. W. Porter. diags Philos Mag 6th ser 48: 1006-10 N '24
Comparison of direct expansion and brine in applying refrigeration. H. J. Macintire. diags Chem & Met Eng 30:1027-9 Je 30 '24
Defrosting coils in refrigerator boxes. R. L. Tullis. Power 62:492 S 29 '25
Does one lose ammonia when purging? diag Power 59:872, 997-8, 1040-1; 60:26 My 27, Je 17-24, Jl 1 '24
Heat and change of state. diag Am Gas J 123:513 O 31 '25
Heat transfer in cast iron radiator sections for ammonia. H. J. MacIntire. il Refrig Eng 11: 195-7; Discussion. 197-9+ D '24
High condenser increases the power consumption of refrigeration machines. A. W. Farrall. Power 60:10-11 Jl 1 '24
Household refrigeration. H. B. Hull. 328p Nickerson & Collins co., Chicago '24
Ice making and refrigerating plants. H. P. Hill. Refrig W 59:17-20 O '24; Abstracts. Power 60:531-2 S 30 '24; Power Pl Eng 28: 1015-16 O 1 '24
Importance from a national and industrial point of view of the extension of refrigerating instruction in the educational systems of the country. J. Raymond. Refrig W 60: 25-6 Mr '25
Increasing back pressure in ammonia refrigeration plant. Power 61:429-30, 959 Mr 17, Je 16 '25
Intermittent system of refrigeration. W. F. Schaphorst. diags Power Pl Eng 28:347-8 Mr 15 '24
It pays to pump out the ammonia system. Power Pl Eng 28:662-3 Je 15 '24
Die kältemaschine. M. Hirsch. 510p J. Springer, Berlin '24; Review. Refrig Eng 10:377-8 Ap '24
Mechanical refrigeration. H. Williams. New & enl. ed. 501p Pitman '24
Mechanically refrigerated ice cream cabinet. C. D. Haven. il Refrig Eng 12:103-8; Discussion. 108-10 O '25
Modern refrigerating practice and its exacting requirements. Van R. N. Greene. Refrig Eng 11:418+ Je '25
Munters-Platen refrigerating system. diag Refrig W 60:25 Ag '25
Non-condensable gases. B. E. Hill. diag Refrig Eng 10:372-5 Ap '24
Oil refinery refrigeration. C. H. Herter. Refrig W 59:13-16 Mr '24
Operating a small refrigerating machine. H. Noone. plan Power Pl Eng 28:346-7 Mr 15 '24
Operation of carbon dioxide refrigerating plants. G. Grow. Power 60:646-7 O 21 '24
Overhauling the absorption ice machine. H. A. Cranford. Power Pl Eng 28:193-4 F 1 '24

REFRIGERATION and refrigerating machinery —*Continued*
Power consumption of small refrigerating machines. J: E. Starr. Power 60:59-60 Jl 8 '24; Abstract. Refrig Eng 11:22-3 Jl '24
Preparation and use of industrial gases; developments in refrigeration. Chem Age (Lond) 11:9 Jl 5 '24
Producing wax and lard by mechanical refrigeration. H. J. Macintire. diags plan Chem & Met Eng 31:699-701 N 3 '24; Discussion. A. G. Wikoff. 32:170 Ja 26 '25
Progress of refrigeration in America. P: Neff. Refrig W 59:19-20 Ag '24
Recent developments in refrigeration research; abstracts. E. Griffiths. diags Engineering 118:742-4 N 28 '24; Mech Eng 47:360 My '25
Recent improvements in refrigerating apparatus. F. Ophuls and G: A. Horne. diags Refrig Eng 11:1-13 Jl '24
Refrigerating machines at the British Empire exhibition. il diags Engineering 118:559-63, 594 O 17-24 '24
Refrigerating with gas. W. F. Schaphorst. Am Gas J 121:1149-50+ N 8 '24
Refrigeration—a desirable outlet for manufactured gas. H. D. Valentine. il diags Am Gas Assn Commercial sec v 5:702-15 '23; Same. Gas Age 52:431-6 O 13 '23; Same cond. Am Gas J 119:629-31+ D 15 '23
Refrigeration and horticulture. J. S. Brunton. Refrig W 60:23-4 Ja '25
Refrigeration as applied to the baking industry. W. W. Reece. Refrig Eng 10:205-6 D '23
Refrigeration by indirect air circulation. diag plan Refrig W 60:27-30 F '25
Refrigeration in Russia. Refrig Eng 12:100-1 S '25
Refrigeration in Russia. N. Borodin. Refrig Eng 11:180-1 N '24
Refrigeration in the manufacture of gasoline. H. J. Macintire. Power 59:464-5 Mr 18 '24
Refrigeration in the manufacture of steel. H. J. Macintire. Power 59:621 Ap 15 '24
Refrigeration of Cheddar cheese; manufacturing and storing. W. Wright. Refrig W 59: 19-22 S '24
Refrigeration one of the ten largest industries of the country. T. Mitchell. il Manuf Rec 86:327-30 pt 2 D 11 '24
Remodeling refrigerating system. C. E. Anderson. Power Pl Eng 28:452-3 Ap 15 '24
Specific heat of superheated ammonia vapor. N. S. Osborne and others. il diags Refrig Eng 10:145-68 N '23
Theory of heat pumping as applied to inventions. H. H. Jacobs. Refrig Eng 10:306-9 F '24
Three pressure refrigerating temperature difference control and defrosting system. G: Hilger. diags Refrig Eng 11:293-6 F '25
Use of cold air as a refrigerating agent. Leblanc. diags Refrig Eng 10:309-13 F '24
Using refrigeration for removing salts from solution. H. J. Macintire. diag Chem & Met Eng 31:229-30 Ag 11 '24
Using sulphur tapers to locate ammonia leaks. D. L. Corn. Power 61:739 My 12 '25; Discussion. C. T. Baker. 62:24 Jl 7 '25
Widening scope of refrigerating engineering. Van R. H. Greene. Refrig W 60:15-16+ Jl '25

See also Ammonia compressors; Ammonia condensers; Carbon dioxide compressors; Cold storage; Cooling; Cooling of fruits and vegetables; Cooling of water; Cooling towers; Electricity in refrigeration; Evaporators; Ice—Manufacture; Ice hockey rinks; Insulation (heat); Milk cooling; Railroads —Ice supply; Refrigerants; Refrigerating machines, Domestic; Refrigerating plants; Refrigerator barges; Refrigerator cars; Refrigerators; Shaft sinking—Freezing process; *also* International congress of refrigeration, London, 1924

Bibliography
Papers and articles of interest. Published in monthy numbers of Refrigerating engineering

History
Twenty years ago. J: E. Starr and others. Refrig Eng 11:220-1, 223-4, 225-8, 229-30 D 4 '24

Lubrication
Lubrication of refrigerating machinery. Refrig Eng 11:304-6 F '25
Lubrication of refrigerating plants. F. C. Fryant. Refrig W 60:24 Mr '24

Safety devices and measures
Changes in suction and liquid headers promote safety. A. G. Solomon. diags Power Pl Eng 28:612 Je 1 '24
Committee on municipal and state regulations for refrigerating plants and refrigerants. Refrig Eng 10:440-2 Je '24
Mechanical refrigeration; safe practices recommended by National safety council. il diags Nat Safety N 10:44-52 Jl '24

Standards
Standardization of refrigerating machines and unification of methods of measuring refrigerating capacity; abstract. G. W. Daniels. Refrig W 59:28-9 Ag '24

Tables, calculations, etc.
Absorption refrigerating system. H. J. Macintire. Power 59:399-401 Mr 11 '24
American standard unit of refrigeration. Refrig Eng 11:184-5 N '24
Heat chart for methyl chloride. T: M. Gunn. Refrig W 59:15-18 Jl '24
Heat transfer in brine hold-over tanks. C: H. Herter. Refrig Eng 10:370-1+ Ap '24; Same. Power 59:563-5 Ap 8 '24
How plant conditions influence the choice of refrigerating machines. H. J. Macintire. Chem & Met Eng 30:791-3 My 19 '24
Pressure-total heat diagrams for ammonia. G. A. Robertson. Power Pl Eng 29:910-13 S 1 '25
Pressures and temperatures in the refrigerating plant. G. Grow. Power 60:768-9 N 11 '24
Some rules and formulae for the refrigeration engineer. W. H. Motz. Refrig Eng 11:51-6; Discussion. 56-60+ Ag '24
Specific heat of superheated ammonia vapor. N. S. Osborne and others. il diag U S Bur Stand Sci Pa 501:65-110 '25; Same. Refrig Eng 10:145-68 N '23
Specific volume of superheated ammonia vapor. C. H. Meyers and R. S. Jessup. il diag Refrig Eng 11:345-50; Discussion. 350+ Ap '25
Thermal properties of ethyl chloride. C. J. Jenkin and D. N. Shorthose. (Special report no. 14) diags 35p Gt. Brit. Dept. of sci. and ind. research '23; Abstracts. Refrig Eng 10:313-18 F '24; Refrig W 59:20 Mr '24

REFRIGERATION from central stations
Central station pipe line refrigeration. A. W. Oakley. diags map Refrig Eng 11:258-63 Ja '25; Same cond. Power 61:534-5 Ap 7 '25; Discussion. Refrig Eng 11:263+ Ja '25

See also United refrigeration and terminals company

REFRIGERATION on ships
Bau und einrichtung von kühlschiffen. Zeit Ver Deutsch Ing 69:734-5 My 23 '25
Design and construction of refrigerated ships. L. Williams. il diags Marine Eng 29:713-19 D '24; Same. Refrig Eng 11:297-304 F '25; Discussion. Marine Eng 29:731-2 D '24
High revolution compressors for marine refrigeration. E. Markham. Refrig Eng 12:111-16 O '25
Ice machine proves success on lakes. il plan Marine R 54:113+ Mr '24
Modern marine practice in refrigeration. H. G. Ward. Refrig W 59:23-4 O '24
Refrigerated motorships under construction abroad. il plan Marine Eng 30:443-5 Ag '25
Transportation of citrus fruit from Porto Rico. R. G. Hill and L. A. Hawkins. il diags U S Agric Bul 1290:1-19 '24; Same. Refrig Eng 11:357-62 Ap '25

REFRIGERATOR barges
Insulated and refrigerator barges for the carriage of perishable foods. diags Refrig Eng 10:349-51 Mr '24
New refrigerator barges of the Erie railroad. il Ry R 75:49-50 Jl 12 '24

REFRIGERATOR car lines
Private car ownership. Index p 12-14 Mr '25; Same. Econ W n s 29:441-2 Mr 28 '25
Report urges that packers relinquish refrigerator car lines. Ry R 76:398-9 F 28 '25

REFRIGERATOR cars
Abuse of refrigerator car equipment. E. C. Calkins. Ry R 74:1262-3 Je 28 '24; Same. Ry Age 77:331-2 Ag 23 '24
American refrigerator transit buys new equipment. il Ry Mech Eng 99:159-60 Mr '25
Applying insulation to refrigerator cars. il Ry Mech Eng 99:228 Ap '25
Balsam-wool insulation for refrigerator cars. il Ry Age 78:1041-2 Ap 25 '25; Same. Ry Mech Eng 99:528-9 Ag '25
Canadian Pacific Ry.'s. refrigerator car construction. il diags Ry R 75:826-8 N 22 '24
Le développement des transports par wagons frigorifiques sur les réseaux français, pendant et depuis la guerre. Génie Civil 85:321-3 O 11 '24
Dry Zero new insulating material for refrigerator cars. diag Ry R 76:1095 Je 13 '25; Ry Age 78:1477 Je 13 '25
Economical thickness of insulation in refrigerator cars. A. J. Wood and P. X. Rice. Ry R 73:831-7 D 8 '23; Same. Engineering 117:217-18, 252-3 F 15-22 '24; Same. Refrig Eng 10:357-62 Ap '24; Same cond. Ry Age 75:1023-6 D 1 '23; Discussion. Ry R 74:182-5+, 649 Ja 26, Ap 5 '24; Refrig Eng 10:362-6 Ap '24
Electric refrigerator car. il Aera 13:1187-9 F '25; Elec Ry J 65:221-2 F 7 '25
Equipco bulkhead and ice grate of all-metal construction. il Ry Age 78:746 Mr 14 '25; Ry Mech Eng 99:188-9 Mr '25
How the railroads handle perishable freight. G. H. Nelson. Ry Age 75:1213-14 D 29 '23
Insulating lumber for refrigerator cars. Ry Age 77:806-7 N 1 '24; Same. il Ry Mech Eng 98:709 N '24
Investigation of body icing of perishables. Ry Age 79:91-2 Jl 11 '25; Ry R 77:138-9 Jl 25 '25
Low temperatures in refrigerator cars. M. E. Pennington. Ry Age 77:947-50 N 22 '24
Modern refrigeration methods stabilize markets. il Nation's Health 6:787-8 N '24
Narrow gage refrigerator cars for the D. & R. G. W. il Ry Mech Eng 99:109 F '25
New express refrigerator car, Great Northern Ry. il diags Ry R 76:229-33 Ja 31 '25
New refrigerator cars for the Rock Island. il diags plan Ry Mech Eng 98:286-9 My '24; Same. Ry Age 76:547-9 Mr 8 '24
New Santa Fe express refrigerator cars. il diags Ry R 74:949-56 My 31 '24
New ventilated refrigerator cars of the C.R. I. & P. Ry. il diags Ry R 74:551-6 Mr 22 '24
Notable development in the distribution of perishable food products. C. D. Morris. Ry R 74:193 Ja 26 '24
Operation of car icing stations. J. W. Inghram. Ry Age 75:1214-15 D 29 '23
Railway car index. Refrig Eng 11:406-8 My '25
Refrigerator car with intermittent absorption machine. C: H. Herter. Refrig W 60:23 O '25
Reichsbahn-kühlwagen und volksernährung. Culemeyer. il diag Zeit Ver Deutsch Ing 69:163-4 F 7 '25
Representative examples of refrigerator cars built in 1923. il Ry R 74:27-8, 48 Ja 5 '24
Representative examples of refrigerator cars built in 1924. il Ry R 76:50-1, 71-3 Ja 3 '25
Shipping milk in carload lots. il Sci Am 130: 243 Ap '24
See also Railroads—Ice supply

Manufacture
Car building program in a railroad shop; Pere Marquette Ry. constructs refrigerator cars in well-planned production schedule. il diags Ry R 74:1177-85 Je 21 '24

REFRIGERATOR industry
Furniture manufacturers and refrigerator firms plead guilty to charges of violating Sherman anti-trust act. Comm & Fin Chr 121:289 Jl 18 '25

REFRIGERATORS
Food in the house refrigerator. J. Broadhurst and M. B. Van Arsdale. diag Nation's Health 6:595-7+ S '24
Ice machine vs. crushed ice and salt. G: S. Shepard. Refrig W 60:23-4 Ag '25
Ice man and the refrigerator. J. K. Waterman. Refrig W 60:20+ Ap '25
Merchandising plan for the ice dealer. R. E. Ottenheimer. Refrig W 60:11-12 My '25
Munters-Platen refrigerator without moving parts. diag Mech Eng 47:588-9 Jl '25
Refrigerator engineering; basic facts which govern the design of refrigerators. C: H. Herter. Refrig W 60:11-13 S '25
Thermostat refrigerator. K. C. D. Hickman. diag Chem Soc J 123:3416 D '23
See also Cold storage; Refrigerating machines, Domestic; Refrigeration and refrigerating machinery

REFRIGERATORS, Electric
Better motors wanted for refrigerators. Elec W 85:484-5 F 28 '25
Central station and the refrigerator. I. C. Shepard. Elec W 85:725-6 Ap 4 '25
Development of domestic refrigerator. L. R. Parker. Elec W 85:1219-22 Je 6 '25
Domestic electric refrigeration. S. Bennis. Refrig W 60:16-18 Ag '25
Domestic electric refrigeration featured at N.E.L.A. convention. Elec W 85:1351-2 Je 20 '25
Domestic refrigeration as a load builder. chart Elec W 86:807 O 17 '25
Electric domestic refrigeration. B. J. George. N E L A Bul 12:363-6 Je '25; Same. Refrig W 60:17-19 S '25
Electric refrigeration in Chicago. O. R. Hogue. Elec W 84:1316 D 20 '24
Electric refrigeration interests central stations. il Power Pl Eng 29:706-8 Jl 1 '25
Electric refrigerator car. il Aera 13:1187-9 F '25; Elec Ry J 65:221-2 F 7 '25
Electric refrigerator service costs. Elec W 86:24 Jl 4 '25
Electric refrigerators increase rental values. Elec W 85:624 Mr 21 '25
Electrical refrigeration in the home. H. M. Wright, jr. il Pub Serv Management 39:80-1 S '25
Electro-mechanical refrigeration. A. D. McLay. N E L A Bul 11:155-8 Mr '24
Elektrischer kühlschrank für den haushalt. diags Elektrotech Zeit 46:813-14 My 28 '25
Energy consumption and cost of operating domestic electric refrigerators. Elec W 84: 1062 N 15 '24
Household refrigeration and research work. C. C. Spreen. Refrig Eng 11:416-17+ Je '25
Iceless refrigerator. plans Dom Eng 107:36 My 31 '24
Ideal refrigerator motor specified. Elec W 85:1051-2 My 16 '25
Outlook for the domestic refrigerator load. Elec W 84:1214 D 6 '24
Refrigeration returns $3 per capita. il Elec W 86:957-8 N 7 '25
Refrigerator revenue $200 per kilowatt of demand. G. M. Dwelley. Elec W 85:415 F 21 '25
Servicing domestic electric refrigerators. H. E. Young. Elec W 84:1149-52 N 29 '24
Small store refrigeration. W. J. Kyle. Elec W 84:1368-9 D 27 '24
Utah company establishes domestic refrigeration rate. Elec W 86:276-7 Ag 8 '25
What of the electric refrigerator? Sci Am 133: 194 S '25

REFRIGERATORS, Electric—*Continued*

Merchandizing

Advertised products help sell electric refrigerators. il Ptr Ink M 9:106+ D '24
Introducing electric refrigeration in Spokane. J Elec 54:63 Ja 15 '25
Mechanical refrigeration a new industry that may affect security values. C. Donaldson. Sci Am 133:349 N '25
Profit on refrigerator sales. S. D. Heed. Elec W 86:789 O 17 '25
Range users good refrigerator prospects. G. B. Richardson. Elec W 85:884 Ap 25 '25
Refrigeration exhibit stimulates sales. il Elec W 86:127 Jl 18 '25
Should central stations merchandise electric refrigeration? W. Paul. Elec W 86:111-12 Jl 18 '25
Utah company starts refrigerator drive with polar window. il J Elec 55:89-90 Ag 1 '25
Utilities' part in selling refrigerators. H. E. Young. Elec W 86:896-8 O 31 '25

REFRIGERATORS, Window

Pattern for window box refrigerator. F. W. Klay. diags Sheet Metal Worker 16:693+ O 23 '25
Sheet metal window refrigerators. W. Scholl. diags Sheet Metal Worker 15:671-3 S 26 '24

REFUSE, Utilization of

La chimie des résidus. V: Cambon. Chimie & Ind 10:1153-4 D '23
Efficiency in feeding garbage to hogs. Eng N 95:206-7 Ag 6 '25
Garbage decision adverse to piggery. E: D. Rich. Pub Works 56:150 Ap '25; Same. Munic & Co Eng 69:44-5 Jl '25; Same. Nation's Health 7:462 Jl '25
Los Angeles garbage feeds 40,000 hogs on Fontana farm. il plan Eng N 95:208-12 Ag 6 '25
Michigan lower court enjoins use of Lansing garbage piggery. Eng N 94:483 Mr 19 '25
Müllverbrennung. H. Koschmieder. diag Elektrotech Zeit 46:387 Mr 12 '25
New refuse salvage works at Birmingham. diag plan Engineer 137:419-21 Ap 18 '24
Recovering gas from carbonaceous wastes. C. H. S. Tupholme. diags Chem & Met Eng 31:188-90 Ag 4 '24
Refuse salvaging at Birmingham. Pub Works 56:10 Ja '25
Refuse used to restrain drifting sand. Eng N 92:767 My 1 '24
Separation and salvage of refuse; economical treatment of refuse in some cities in England. Can Eng 47:444-5 O 21 '24
Traitement rationnel des résidus urbains. A. Bigot. il diags Chimie & Ind 11:857-72 My '24
Turning a nuisance to profit; using refuse as fuel. E. Winholt. il Factory 33:788+ D '24
Westminster salvage plant. il Elec R (Lond) 94:71 Ja 11 '24

See also Refuse disposal—Reduction plants

REFUSE as fertilizer

Bavarian studies on use of city refuse. J. Bodler. Eng N 92:483 Mr 20 '24

REFUSE collection

Collecting city refuse. il Pub Works 55:81-3 Mr '24
Electric trucks for refuse collection. R. K. Merrick. Pub Works 55:123-4 Ap '24
Garbage and trash collection methods. C. H. R. Fuller. Can Eng 47:425 O 14 '24
Garbage collection and disposal in a hundred manager cities. Eng N 93:188 Jl 31 '24
Garbage collection statistics. Pub Works 55: 380-3 D '24
Garbage disposal at St Paul. Eng & Contr (W W) 63:126 Ja 14 '25
Modern methods of refuse collection. J. A. Priestley. Can Eng 47:457-8 O 28 '24
Municipal house cleaning. A. P. Folwell. il Am Arch 126:123-6 Jl 30 '24
Pagefield system of refuse collection. il diags Engineering 118:646, 655-6 N 7 '24
Refuse collection and disposal in Pittsburgh. M. Knowles. Eng N 94:1054 Je 25 '25
Refuse collection statistics. Pub Works 55: 319-20 O '24

See also Ash handling

Cost

Refuse disposal in Milwaukee. T. C. Hatton. Pub Works 55:303-4 O '24

REFUSE disposal

American practice in refuse disposal. S: A. Greeley. Can Eng 47:297-8 S 2 '24; Same. Eng & Contr (W W) 62:813-16 O 8 '24
Beccari garbage disposal at Scarsdale. il diags Nation's Health 6:629-30 S '24
Disposal of garbage; statistics. Pub Works 55:320-1 O '24
Disposal of municipal wastes. E: F. Murphy. Can Eng 47:488 N 4 '24
Disposal of street sweepings. Pub Works 54: 352-5 N '23
Elimination of odors from garbage disposal works. S: A. Greeley. Am Soc C E Pro 51: 832-46 My '25; Discussion. 51:1177-81; 52: 355 Ag '25, F '26; Excerpt. (I.S. Osborn). Pub Works 56:295-6 Ag '25
Emergency garbage disposal for St. Louis, Mo. Eng N 94:867 My 21 '25
Four refuse disposal plants of Paris, France. R. L. Willard. il plan map Eng N 91:844-7 N 22 '23
Garbage and refuse disposal. M. N. Baker. Eng & Contr (W W) 62:1268-70 D 10 '24; Same. Munic & Co Eng 69:103-5 Ag '25
Garbage and trash collection methods. C. H. R. Fuller. Can Eng 47:425-7 O 14 '24
Garbage disposal at St Paul. Eng & Contr (W W) 63:126 Ja 14 '25
Garbage disposal by burial. il Nation's Health 6:487-8 Jl '24
Garbage disposal in Dayton. Pub Works 54: 352 N '23
Houses and pavement on sanitary fills in Seattle. Eng N 95:11 Jl 2 '25
Municipal house cleaning. A. P. Folwell. il Am Arch 126:123-6 Jl 30 '24
New garbage disposal method at Lebanon, Pa. H. G. Payrow. Can Eng 47:358 S 23 '24; Excerpt. Eng & Contr (W W) 62:800 O 8 '24
New process of garbage disposal at Lebanon, Pa. C. R. Fox and W: S. Davis. Eng N 92: 857 My 15 '24
Notes on garbage disposal methods in Pacific coast cities. Eng N 93:591-2 O 9 '24
Observations on refuse disposal in Europe. G: W. Fuller. Munic Eng 65:274-8 D '23; Same. Can Eng 45:547-9 D 4 '23
Refuse disposal and street cleaning in Baltimore. Pub Works 56:294-5 Ag '25
Refuse disposal at Highland Park, Michigan. Pub Works 56:200-1 Je '25
Rules for operation of refuse dumps. S: Greeley. Eng & Contr (W W) 62:363 Ag 13 '24
Sanitary fill at Portland. C. A. Bigelow. Pub Works 56:17-18 Ja '25
Sanitary method of refuse disposal. Can Eng 49:221-2 Ag 11 '25
Separation and salvage of refuse; economical treatment of refuse in some cities in England. Can Eng 47:444-5 O 21 '24
Taking the stenches out of industry. J. H. Collins. il plan Sci Am 130:378-9+ Je '24
Traitement rationnel des résidus urbains. A. Bigot. il diags Chimie & Ind 11:857-72 My '24

See also Ash handling; Refuse, Utilization of; Refuse collection; Refuse incinerators; Sewage disposal; Street cleaning; Trade waste; Water pollution

Contracts

Kansas City garbage disposal contract. R. W. Wilson. Eng N 95:521 S 24 '25

Cost

Garbage disposal in Chicago. Pub Works 56: 98-9 Mr '25
Refuse disposal in Milwaukee. T. C. Hatton. Pub Works 55:303-4 O '24
St Louis garbage disposal cost cut in half. Eng N 92:421 Mr 6 '24

REFUSE disposal—Cost—*Continued*
Vicissitudes of garbage disposal at New Bedford, Mass. Eng N 93:108 Jl 17 '24

Reduction plants
Dayton garbage reduction plant. Pub Works 56:128-9 Ap '25
District of Columbia recovers $302,631 from garbage and refuse. Eng N 93:386 S 4 '24
Indianapolis developments in garbage reduction. E. W. McCullough. Munic Eng 67:125-8 Mr '24; Same abr. Eng & Contr (W W) 62:357-9 Ag 13 '24; Same cond. Pub Works 55:153-4 My '24
New refuse salvage works at Birmingham. diag plan Engineer 137:419-21 Ap 18 '24

REFUSE incinerators
American practice in refuse disposal. S: A. Greely. Can Eng 47:298 S 2 '24; Same. Eng & Contr (W W) 62:815-16 O 8 '24
Appareil pour le traitement des résidus urbains; abstract. A. Bigot. Génie Civil 84:362 Ap 12 '24
Atlanta sells steam from incinerator to railway and power co. Eng N 93:873 N 27 '24; Same. Elec W 84:1164 N 29 '24
Baltimore's new incinerator. Eng & Contr (W W) 63:112 Ja 14 '25
Basic principles in refuse incinerator practice. Munic & Co Eng 69:221-4 O '25
Disposal of factory refuse. Can Eng 45:465-7 N 6 '23
Garbage and trash collection methods. C. H. R. Fuller. Can Eng 47:426 O 14 '24
Garbage incineration at Chatham, Ont. C. H. R. Fuller. Eng & Contr (W W) 63:328 F 11 '25
Garbage incinerator program at St Louis has setback. il diag plan Eng N 92:316-19 F 21 '24
Hot water incinerator explosion. il Power 59: 307 F 19 '24
Minneapolis building 210-ton garbage incinerator plant. J. A. Jensen. Eng N 94:640 Ap 16 '25
Municipal street cleaning in Philadelphia. C: A. Howland. il Pub Works 55:354-7 N '24
Model incinerator specifications and contract tests. Munic & Co Eng 67:206-10 O '24
New refuse destructor at Toronto, Ont. J. A. Burnett. il Can Eng 49:203-8 Ag 11 '25
Outline of specifications for incinerator. Am Arch 125:sup14+ F 13 '24
Principles of refuse incinerator design and operation; specifications and contract tests drawn by American public health sanitary engineering section. Eng N 95:764 N 5 '25
Refuse disposal at municipal camps. Pub Works 56:237 Jl '25
Refuse disposal in New Orleans. C. Schneider. Pub Works 55:121-3 Ap '24
Refuse disposal in New York. Pub Works 56: 82 Mr '25
Refuse incineration in New York. K. Allen. Pub Works 55:337 N '24
Unusual incinerator for Washington Park, Chicago. il Munic & Co Eng 68:242-3 My '25
Wilmington's new incinerator. H. L. Maier. il Pub Works 55:56-8 F '24

REFUSE incinerators, Domestic
L'incinération domestique des ordures ménagères. diags Génie Civil 86:67 Ja 17 '25
Refuse furnace for apartments and public buildings. diags Eng N 93:739 N 6 '24

REFUSE receptacles
Making metal trash cans. W: Neubecker. diags Sheet Metal Worker 16:338-9 Je 19 '25

REGIONAL planning
Activities of Los Angeles regional planning commission. Eng N 93:302 Ag 21 '24
Benevolent autocracies. Am Inst Arch J 13: 211-12 Je '25
Governor Smith of New York signs bill to establish regional planning boards to help in solution of housing problem. Comm & Fin Chr 120:1972 Ap 18 '25
How to lay out regions for planning. A. Bettman. Munic & Co Eng 69:6-12 Jl '25
Influence of the automobile on regional transportation planning. G: A. Damon. Am Soc C E Pro 51:636-43 Ap '25; Discussion. 51: 931-2 My '25
Regional and metropolitan planning principles. G. B. Ford. Can Eng 46:127-30 Ja 8 '24
Regional highway traffic problem of New York city. E. P. Goodrich and H. M. Lewis. maps Eng N 92:941-3 My 29 '24
Regional planning, garden cities, zoning and traffic; main topics at International town, city and regional planning conference. Eng N 94:733-5 Ap 30 '25
Work of the Chicago regional planning committee. Eng & Contr (Bldgs) 61:907-8 Ap 23 '24

REGIONAL shippers advisory boards
Co-operation displaces prejudice; regional shippers' advisory boards are bringing the railroads and their customers into better understanding. H. G. Taylor. Aera 12:1885-90 Je '24
Eleven regional shippers' boards now organized. Ry Age 77:249-51 Ag 9 '24; Ry R 75: 183-4 Ag 2 '24
How regional boards benefit shippers. Ry Age 78:777-8 Mr 21 '25
New regional advisory boards to be organized by the A. R. A. Ry R 74:94 Ja 5 '24
Organization of Shippers' regional advisory board for Middle Atlantic coast states. D. D. Conn. Comm & Fin Chr 118:165-6 Ja 12 '24; Same abr. Ry R 74:126-7 Ja 12 '24
Railroads and shippers sit at the round table. H. Hertell. Forbes 14:223-5 My 24 '24
Shippers advisory boards. Index p 15-16 F '25
Shippers' regional advisory board for Wisconsin and neighboring territory. Comm & Fin Chr 118:2663 My 31 '24

REGISTERS (heating)
Effect of register grilles on piped furnace plant capacity. diags Sheet Metal Worker 15:464-5 Jl 4 '24
Facts to know about registers. V. S. Day. Sheet Metal Worker 16:274+ My 22 '25
Inside air circulation; its position and bearing upon the position of the warm-air registers. B: F. Burger. plans Sheet Metal Worker 15: 908-9 D 19 '24
Registers in warm-air heating often slighted. Sheet Metal Worker 16:650+ O 9 '25

REGULATOR, Arca. See Arca regulator

REHABILITATION. See Disabled—Rehabilitation

REICHSBANK. See Banks and banking—Germany

REIN printing company
Great printing plant from humble beginnings. J: L. DeBrueys. il Inland Ptr 74:888-h Mr '25

REINEKE regulator
Automatic regulation of gas pressure. il diags Chem & Met Eng 31:430-1 S 15 '24

REINFORCED gypsum. See Gypsum, Reinforced

REINFORCING steel. See Steel, Reinforcing

REINHARTIN brine. See Refrigerants

REINSURANCE. See Insurance—Reinsurance; Insurance, Fire—Reinsurance

REJUVENATION
Can old age be deferred? il Sci Am 133:226-7 O '25

RELATIVITY (physics)
A B C of relativity. B. Russell. 231p Harper '25
Captain See vs. Doctor Einstein. Sci Am 132: 128 F '25
Central orbits in relativistic dynamics treated by the Hamilton-Jacobi method. G. Temple. Philos Mag 6th ser 48:277-92 Ag '24
Common sense of the theory of relativity. P. R. Heyl. 44p Williams & Wilkins co., Baltimore '24
Definition of relativity. F. H. Loring. 16p H. O. Lloyd & co., London '22
Determination of the curvature invariant of space-time. L. Silberstein. Philos Mag 6th ser 47:907-18; 48:619-28 My, O '24

RELATIVITY (physics)

La doctrine de la relativité et les théories d'Einstein. D. Berthelot. Soc Ing Civils Bul 78:295-355 My '25

Einstein theory of relativity. G. P. Serviss. 96p Edwin Miles Fadman, Inc., 1600 Bway., N.Y. '23

Einstein's theory of relativity. M. Born. 3d ed. 293p Dutton

Motion of a rigid solid according to the relativity principle. G. Lamaître. Philos Mag 6th ser 48:164-76 Jl '24

New discussion of Bucherer's experiment. U. Doi. Philos Mag 6th ser 49:434-46, pl 6 F '25; Discussion. 50:389-99, 551-2 Ag-S '25

Possibility of other kinds of space. N: P. Rashevsky. il diags Sci Am 131:305-7 N '24

Principle of equivalence in the theory of relativity. T. Y. Thomas. Philos Mag 6th ser 48:1056-68 D '24

Principle of relativity. H. A. Lorentz and others. 216p Dodd '23

Principle of relativity. W. F. G. Swann. J Fr Inst 200:183-217 Ag '25

Relativity. A. S. Eddington. Engineering 118:535-6 O 17 '24

Relativity and common sense. F. M. Denton. 279p University press, Cambridge, Eng. '24

Relativity and gravitation. T. P. Nunn. 162p Dutton '23

Relativity and the ether theory. N. Edwards. Electrician 92:484 Ap 18 '24

Relativity for physics students. G. B. Jeffery. 151p Dutton '24

Rotating earth as a reference system for light propagation. L. Silberstein. Philos Mag 6th ser 48:395-404 S '24

Scattering of particles by an Einstein center. W. S. Kimball. Phys R 23:75-84 Ja '24

Space and time. C. Benedicks. 98p Dutton '24

Space, time, motion; an historical introduction to the general theory of relativity. A. V. Vasiliev. 232p Knopf '24

Spontaneous loss of energy of a spinning rod according to the relativity theory. A. S. Eddington. Philos Mag 6th ser 46:1112-17 D '23

Study of relative motion in connection with classical mechanics. H. Zanstra. Phys R 23:528-45 Ap '24

Theory of relativity. E. Freundlich. 98p Dutton

Theory of relativity. L. Silberstein. 2d ed. enl. 563p Macmillan '24

Transformation of electric and magnetic forces in a plane wave, in a plane normal to the direction of relative motion of two observers. V. Karapetoff. diags Phys R 23: 239-44 F '24

Bibliography

Bibliographie de la relativité. M. M. A. Lecat and M. Lecat-Pierlot. 290p M. Lamertin, Bruxelles '24

RELAYS

Alternating-current definite-time relay for use with magnetic controllers. il Gen Elec R 27: 624 S '24

Automatic network relay. J: S. Parsons. il diags Elec J 22:339-44 Jl 1 '25

Automatic protection-balanced relays and flashover control. E. R. Stauffacher. diags Am Inst E E J 43:904-7 O '24

Automatic signal flasher relay. il Elec Ry J 63:904 Je 7 '24

Automatic switching equipment devices. R. M. Brockway. il Gen Elec R 28:440-7 Je '25

Balanced relay system for 220-kv. lines. E. R. Stauffacher and F. H. Mayer. diags Elec W 85:341-3, 400-2 F 14-21 '25

Le commande à distance par ondes hertziennes; l'emploi des relais à arc de mercure. H. Bouillet. il diags Génie Civil 86: 581-6, 605-7 Je 13-20 '25

Design of apparatus for the protection of alternating-current circuits. A. S. FitzGerald. diags Inst E E J 62:561-99; Discussion. 599-627 Jl '24

Differentially connected relays for protecting electrical machinery. C. M. King. diags Power 59:210-11 F 5 '24

D.c. remote control for public lamps. A. C. Johnson. diag Elec R (Lond) 96:647 Ap 24 '25

Distanzrelais zum selektiven abschalten beschädigter netzteile; abstract. Elektrotech Zeit 46:928-9 Je 18 '25

Generator-field destroying and restoring device. R. Brown. il diag Power 60:17 Jl 1 '24

Hochempfindliches elektromagnetisches stromrelais. M. Herklotz. il diag Elektrotech Zeit (special no.) 46:30-1 Mr 1 '25

Improving directional relay operation. A. H. Sweetnam. diags Elec W 83:1335-6 Je 28 '24

Lightning arresters and relays discussed at A.I.E.E. il diags Elec W 83:763-5 Ap 19 '24

Meters used as reverse-current relays. Elec W 86:417 Ag 29 '25

Method of simplifying relay connections. R. Brown. il diags Elec W 83:968-9 My 10 '24

Das neue maximalzeitrelais der Asea. il diag Elektrotech Zeit 45:936 Ag 28 '24

New electrical relay system; the operating mechanism for the thermometer on Colgate's large electric sign. diags Electrician 95:471+ O 23 '25

New type of overload protective relay. A. B. Campbell. il Gen Elec R 26:837-40 D '23

Operating experiences with the relaying of the Duquesne ring. H. P. Sleeper. diags map Am Inst E E J 43:1158-65 D '24

Overland protection by "Z" connected relays or trip coils. diags Elec R (Lond) 94:828-9 My 23 '24; Discussion. 94:874-5 My 30 '24

Phase balance current relay of the negative phase sequence type. J. V. Breisky. il Elec J 21:77-81 F '24

Phase relations in differential relay connections. G. A. Fleming. diags Elec W 85:102-3 Ja 10 '25

Pilot-wire relays for cables and loops. O. C. Traver. il diag Elec W 83:337-8 F 16 '24

Protective gear at Wembley. il diags Electrician 93:383-4 O 3 '24

Protective relays for central station systems. O. J. Bliss. W Soc E J 30:229-34 My '25; Same. Elec J 22:578-82 D '25

Relay control; an application of the neon lamp. J. Taylor and W. Stephenson. diags Electrician 94:145 F 6 '25

Relay maintenance practice. W. D. Wilkinson. Elec W 86:700-1 O 3 '25

Relay operation checked by station reports. Elec W 84:1314 D 20 '24

Relay practice. H. H. Green. diags Elec J 21: 319-24 Jl '24

Relay protection as applied to large transmismission network. R. Wilkins. diags maps Elec W 84:1101-6 N 22 '24

Relay protection of power-house motors. R. Kelly. il diags Elec J 22:438-41 S '25

Relay protection of transmission lines. C. A. Anderson. diags Power Pl Eng 29:1002-4 O 1 '25

Relay protection shown by pin map. Elec W 84:1262 D 13 '24

Relays and relay application. diag J Elec 52: 459-60 Je 1 '24

Relays and relay application; report of Pacific coast electrical association. J Elec 54: 470-8 Je 1 '25

Report of A.I.E.E. subcommittee on relays. Am Inst E E J 43:973 O '24

Selektivschutz. diags Elektrotech Zeit 46:1383-4 S 3 '25

Some developments in the electrical industry during 1924. J: Liston. il Gen Elec R 28: 46-50 Ja '25

Speed control in Interborough subway. il charts Elec Ry J 66:49-52 Jl 11 '25

System relay committee studies troubles. M. T. Crawford. il diag Elec W 83:420-2 Mr 1 '24

Temperature overload relays. B. W. Jones. il Gen Elec R 27:345-7 My '24

Time-delay overload relay that cannot close by vibration. il Power 59:580 Ap 8 '24

Trouble on low-voltage trip corrected by time-delay relay. J. A. Vanderpoll. diag Ind Eng 83:395-6 Ag '25

RELAYS—*Continued*
Der überstromschutz durch spannungsabfallrelais und seine anwendung in der praxis. F. Alten. il diags Elektrotech Zeit 45:553-8 My 29 '24
Use of phase-sequence protective relay. J. V. Breisky. il diags Elec W 86:318-19 Ag 15 '25

See also Electric protective apparatus; Relays, Radio; Track circuits

Testing

Calibration of induction-type overload relays. R. A. Andrews. il diags Elec W 83:1278-80 Je 21 '24
Effect of wave shape on time-current characteristics of time relays; report of Pacific coast electrical association. J Elec 54:444-8 Je 1 '25
Errors in relay settings due to phantom load. W: S. Schmidt. Elec W 83:529-30 Mr 15 '24; Discussion. 83:725, 1333; 84:418 Ap 12, Je 28, Ag 30 '24
Over-all test of induction-type relays. N. P. Carlsen, jr. diag Elec W 84:1108 N 22 '24
Permanent terminal block for relay testing. il diags Elec W 84:899 O 25 '24
Testing and maintenance of relays. Elec W 85:153-4 Ja 17 '25
Testing differentially connected relays. C. M. King. diags Power 59:530-1 Ap 1 '24

RELAYS, Radio
Break-in radio relay communication. J. O. Mauborgne. il diags Radio N 5:886-7 Ja '24
Messrs Autoveyor's new high-frequency relay. diag Elec R (Lond) 97:357 Ag 28 '25
Sensitive radio-frequency relay. G: Lewis. il diags Am Inst E E J 43:1031-3 N '24; Discussion. 44:389-90 Ap '25

RELAYS, Telegraph
Polarized telegraph relays. J. R. Fry and L. A. Gardner. il diags Am Inst E E J 44: 223-8 Mr '25

RELIEF maps
Block diagrams and other graphic methods used in geology and geography. A. K. Lobeck. 206p [bibliog. p. 199-201] Wiley '24
Largest map in the world; a monster model, in relief, of the entire state of California. H. H. Dunn. il Sci Am 130:394 Je '24

RELIEVING attachments
Relieving spiral-fluted hobs. G. D. Hutchings. diag Mach 31:619 Ap '25

RELIGION and science
Science, religion, and workshop. Lord Leverhulme. Soc Chem Ind J 43:242-50 Jl 25 '24; Abstract. Chem Age (Lond) 11:60 Jl 19 '24

RELUCTIVITY. See Magnetism

REMINGTON typewriter company
How a typewriter manufacturer provides distributor co-operation. E: N. Vose. il Dun's Int R 45:47-52 Jl '25

REMODELED buildings. See Buildings, Remodeled

REMODELED houses. See Houses, Remodeled

RENAISSANCE architecture. See Architecture, Renaissance

RENAULT, Louis
Renault—torch bearer of French industry. O. D. Foster. il Forbes 13:563-5+ F 16 '24

RENGER-FUHRMAN process. See Boilers—Electrolytic protection

RENNIE, John, 1761-1821
Famous machinists of history. H. M. Manchester. por Am Mach 61:852 N 27 '24

RENO, Nevada
Engineering in the small city. Eng N 95: 225-6 Ag 6 '25

RENSSELAER, New York

Rapid transit

Buses link industrial with residential section. il map Elec Ry J 65:65-6 Ja 10 '25

RENSSELAER polytechnic institute
Centenary celebration. Eng N 93:603+ O 9 '24; Am Mach 61:598 O 9 '24; Power 60:629-30 O 14 '24; Mech Eng 46:723-4 N '24
Centennial celebration of Rensselaer polytechnic institute. A. M. Knowles. Prof Eng 9:11-12+ N '24
Chapter in American education. R. P. Baker. 170p Scribner '24
Rensselaer institute 100 years old. R. P. Baker. il Am Ind 25:19-22 O '24
Rensselaer polytechnic institute and the early colleges of engineering. R. P. Baker. J Eng Educ 15:72-81 S '24
Rensselaer polytechnic starts new courses. Eng N 95:359 Ag 27 '25

RENT
Changes in rents of wage earners' houses. Eng & Contr (Bldgs) 62:696 S 24 '24
La loi du 29 décembre 1923 ayant pour but de limiter la hausse sur les loyers. A. Lainé. Génie Civil 84:64-7 Ja 19 '24
La nouvelle loi sur les loyers, du 2 aout 1924. A. Lainé. Génie Civil 85:215-16 S 6 '24
Profit in rentals at nine dollars per room. Eng & Contr (Bldgs) 64:677 S 23 '25
Public control of house rents. M. Whitman. J Land & Pub Util Econ 1:343-61 Jl '25
Rents still at high level despite lower living costs, according to National industrial conference board. Comm & Fin Chr 120:2209 My 2 '25
Residential rents generally stabilized—downward trend seen. Comm & Fin Chr 121:1186 S 5 '25
Trend of rents. Index p 12-13 S '24

See also Housing laws; Landlord and tenant; Real estate business

Accounting

How to fan out your space charges. G: K. Barrett. Paper Tr J 78:68+ My 8 '24

RENT insurance. See Insurance, Rent

REO motor car company
R. E. Olds couldn't get engines out of his head. O. D. Foster. il Forbes 15:279-81+ D 1 '24
Reo defends ancient gasoline rebating plan but quits brokering motor oil. W. K. Halbert. Nat Pet N 17:39-40 Jl 15 '25

REPAIR parts
Effective repair part schedules. J: H. Ames. Management & Adm 9:525-6 Je '25

REPAIR ships
Dobbin—a repair shop afloat. il diags plans Mech Eng 46:173-8 Ap '24
Will make castings at sea. A. M. Charlton. il diags Foundry 52:877-80 N 15 '24; Same. Iron Tr R 76:225-8 Ja 15 '25

REPAIR shops

See also Automobile service stations; Electric railroads—Shops; Locomotive shops; Mine shops; Motor bus lines—Shops; Railroads—Shops; Repair ships

Management

Managing maintenance work with economy. T. Clark. Management & Adm 8:191-6, 299-302 Ag-S '24
Preventing losses in repair work. H: M. Burke. Textile World 65:3161+ My 10 '24
Simple and economical method of handling repairs. F. H. Colvin. Am Mach 61:189-90 Jl 31 '24
Straight-line production in a meter repair shop. il plan Management & Adm 8:171-2 Ag '24

REPAIRING
Practical book of home repairs. C. Fraser. 378p Crowell '25
Repairs organisation. W. J. Hiscox. Elec R (Lond) 96:831-2, 845-6, 886-7 My 22-Je 5 '25

See also subdivision Maintenance and repair and Repair under various subjects, e.g. Electric lines—Maintenance and repair; Factories—Maintenance and repair; Freight cars—Repair

REPARATIONS commission, 1924
Address at the opening session of the expert committee on reparations. C: G. Dawes. Econ W n s 27:125-6 Ja 26 '24

See also German indemnities

REPLACERS, Car and engine
Car and engine replacer clamp. diags Ry Mech Eng 99:34 Ja '25

REPORTING
Getting the news. W: S. Maulsby. 310p Harcourt '25
On the inside of high official circles. R. A. Lewis, jr. il Am Bankers Assn J 16:774-6+ Je '24

REPORTS
Getting the facts across. J. Eigelberner. Ind Management 70:214-17 O '25
See also Corporations—Reports and yearbooks

REPORTS, Accountants'. See Accountants' reports

REPRESENTATION
German and French national economic councils. R. Picard. Int Labour R 11:803-29 Je '25

REPUBLIC iron and steel company
Annual report, 24th, for 1923. Comm & Fin Chr 118:680-1 F 9 '24
Annual report, 25th, for the fiscal year ending December 31, 1924. Comm & Fin Chr 120: 841-2 F 14 '25

REPUBLICAN party
Brigadier-general Dawes on Ku Klux Klan—open shop issue. Comm & Fin Chr 119:1017-19 Ag 30 '24
Gen. Dawes's speech accepting Republican nomination as Vice-president. Comm & Fin Chr 119:901-3 Ag 23 '24
Republican national convention. Comm & Fin Chr 118:2903-6 Je 14 '24
Speech of Calvin Coolidge accepting Republican presidential nomination. Comm & Fin Chr 119:766-9 Ag 16 '24

REREDOS
Michael of Bruneck; his masterpiece—the reredos of St. Wolfgang's. S. F. Campbell. il Am Inst Arch J 11:454-7 D '23

RESACETOPHENONE
Condensation of benzoic acid and substituted benzoic acids with resacetophenone. G. C. Chakravarti. Am Chem Soc J 46:682-5 Mr '24

RESEARCH
Education, research, and standardization. J: Dewrance. Brass W 21:351-2, 380-1 O-N '25
Research and reference in the special library. M. Mann. Special Lib 15:191-8 O '24
Research in cooperation with government scientific bureaus and institutes. F. W. Sperr, jr. Am Gas Assn Technical sec v 6:1042-5 '24
See also Aeronautic research; Agricultural research; Automobile research; Business research; Ceramic research; Chemical research; Concrete research; Cotton research; Dye research; Economic research; Electric research; Engineering research; Gas research; Government research; Highway research; Industrial research; Lighting research; Linen research; Municipal research; Paper research; Petroleum research; Psychical research; Rubber research; Scientific research; Statistical research; Steam research; Telephone research; Testing; Textile research; Wool research; *also* American society of heating and ventilating engineers—Research laboratory; National research council

RESEARCH, Industrial. See Industrial research

RESEARCH corporation
Clearing house for inventions. R. Nicholson. Am Ind 25:27-9 D '24
Principles of the Research corporation and their application to industry. A. A. Hamerschlag. Chem Age 32:323-5 Ag '24

RESERVE officers training corps. See United States—Army—Reserve officers training corps

RESERVOIRS
Le barrage-réservoir du Sautet, sur le Drac (Isère). E. Dusaugey. il diags maps Génie Civil 87:12-17 Jl 4 '25
Le calcul des coupoles et des réservoirs. P. Caufourier. Génie Civil 86:165-6 F 14 '25
Color and other phenomena of water from an unstripped reservoir in New England. C. M. Saville. N E Water Works Assn J 39: 145-63; Discussion. 163-70 Je '25
Concrete posts 25 feet long support reservoir roof. il Eng N 92:812 My 8 '24
A costly mistake; reservoir stripping at Birkenhead. Eng N 92:435, 542, 737-8 Mr 13, 27, Ap 24 '24
Covering of open service reservoirs in which filtered or ground waters are stored. G: C. Bunker and A: G. Nolte. il diags plan N E Water Works Assn J 37:261-87; Bibliography. 288; Discussion. 289-90 S '23
Effect of large reservoir on water supply quality. il Am Water Works Assn J 12: 206-11 O '24
Effect of the new impounding reservoir on filter plant operation at Decatur, Ill.; with cost tables. W: E. Stanley and E. E. Ruthrauff. Am Water Works Assn J 12:110-26 S '24; Same. Eng & Contr (W W) 61:1076-81 My 14 '24; Excerpts. Pub Works 55: 308-9 O '24
Effective sluicing from a Spanish reservoir. D. J. Jordano. Engineer 139:320 Mr 20 '25
8-million gallon covered service reservoir at Bushey Heath. il diags Engineer 140:456-7, 464 O 30 '25
L'étude des aménagements hydrauliques pourvus de réservoirs saisonniers. Génie Civil 86:589 Je 13 '25
Evaporation from storage reservoir. J. E. Gibson. Eng & Contr (W W) 63:128 Ja 14 '25
Flood reduction by reservoirs. R. E. Horton. Can Eng 49:482 O 20 '25
Gunite construction in Honduras; building a million-gallon power reservoir. S: G. Lasky. il diag plan Eng & Min J 119:803-4 My 16 '25
High-pressure reservoir outlets. J. M. Gaylord and J. L. Savage. 179p U.S. Bur. of reclamation, Washington '23
How a river control district is building its reservoir. E. S. Cullings. map Eng N 92: 763-4 My 1 '24
Impounding reservoir, its troubles and the remedies. H. L. Shaner. Am Water Works Assn J 13:531-9; Discussion. 539-43 My '25
Littleton reservoir of the Metropolitan water board. il diags map Engineering 119:593-6, 627-31, 690-3, 704, pl 39-44 My 15-22, Je 5 '25; Engineer 139:672-5, 682, 705-8, 710 Je 19-26 '25; Eng & Contr (W W) 64:835-44 O 14 '25
Methods of overcoming silting of reservoirs outlined. Eng N 93:306 Ag 21 '24
Modern methods in reservoir building. il Pub Works 55:289-92 S '24
Modern methods of constructing reservoirs. R. E. McDonnell. Munic & Co Eng 67:177-8 O '24; Same. Eng & Contr (W W) 62:1061-5 N 12 '24
Nine hundred million gallon reservoir for Chicago, Burlington & Quincy at Galesburg, Ill. map Eng & Contr (Ry) 61:818-20 Ap 16 '24
Power possibilities of the South Fork, Flathead river. B: E. Jones and E: E. Jones. il maps Eng N 93:96-8 Jl 17 '24
Projet de régularisation de la Haute-Seine, par dérivations du fleuve et de ses affluents dans des barrages-réservoirs. map Génie Civil 83:495-7 N 17 '23
Queen Mary's reservoir. il Pub Works 56:320-1 S '25
Siltation of Austin and Lake Worth reservoirs in Texas. J: B. Hawley. Eng N 91:811 N 15 '23
Silting of the lake at Austin, Texas. T. U. Taylor. il diags map Texas U Bul 2439:1-23 '24
Tree growth encroaches on reservoir. F. W. Mager. Eng N 93:962 D 11 '24
Troubles with waterweed in open shallow reservoir. E. G. Ritchie. il Eng N 95:638-9 O 15 '25

RESERVOIRS—*Continued*
Use of balancing reservoirs in water distribution systems. J. E. Phillips. Am Water Works Assn J 11:793-6 Jl '24; Same. Eng & Contr (W W) 62:581-3 S 10 '24
Les usines hydro-électriques de Rempen et de Siebnen dans le canton de Schwyz (Suisse); le barrage-réservoir du Wäggital. A. Bidault des Chaumes. il diags maps Génie Civil 87:241-5 S 19 '25
Worcester's reservoirs, present and proposed. G: W. Batchelder. N E Water Works Assn J 37:392-5 D '23

See also Dams; Flood control; Irrigation; Retaining walls; Water storage; Water supply; Water supply engineering; Waterworks

Cost

Wanaque reservoir bids; cost-plus-percentage fee contract. Pub Works 55:94 Mr '24

Inspection

Care of concrete lined reservoirs. R. E. McDonnell. Munic & Co Eng 68:233-5 My '25; Same. Eng & Contr (W W) 63:1251-3 Je 10 '25

RESERVOIRS, Concrete
Building a high reservoir wall of reinforced concrete. il diags plan Eng N 94:590-4 Ap 9 '25
Constructing Eastern Hills reinforced concrete reservoir. Pub Works 56:213-15 Je '25
Construction features of reservoir at Grand Junction, Colo. il Eng & Contr (W W) 61: 75-6 Ja 9 '24
New reservoir at Montreal. Can Eng 47:630 D 23 '24
Reinforced concrete reservoir and pipe tunnel at Calumet City, Illinois. E. A. Clark. Munic & Co Eng 68:145-8 Mr '25; Same. il Eng & Contr (W W) 63:1041-6 My 13 '25; Same cond. Eng N 95:540-2 O 1 '25; Same cond. Pub Works 56:122-5 Ap '25; Same cond. Eng N 95:540-2 O 1 '25; Excerpts. Sanitary & Heat Eng 104:180-1 S 18 '25

Failures

Break in new reservoir at South Pasadena ascribed to faulty construction. il Eng N 93:645 O 16 '24
Failure of a concrete reservoir of curious design. J. C. Pinney. il diag plan Eng N 92: 282-3 F 14 '24; Discussion. C: S. Whitney. Eng N 92:820-1 My 8 '24

Repair

Cracks in reservoir tower and wall repaired with cement gun. E. Carroll. il Eng N 93:516 S 25 '24
Lining reservoir with paving brick. Eng & Contr (W W) 63:124 Ja 14 '25
Method of repairing concrete reservoir at Douglas, Mass. diag Eng & Contr (W W) 61:118-19 Ja 9 '24
Repairing and remodeling a damaged reservoir. il plan Engineer 138:493-4, 496 O 31 '24; Same abr. Eng & Contr (W W) 62: 1286-8 D 10 '24

RESERVOIRS (oil)
Oil storage reservoir construction. P. H. Calahan. il Eng & Contr (G C) 64:875-80 O 21 '25

RESINATES
L'analyse des résinates. R. Uzac. Chimie & Ind 14:186-9 Ag '25

RESINOUS products
Aging of synthetic resin molded products. E. J. Casselman. Chem & Met Eng 32:682-3 Ag '25
Albertol synthetic resins. E. Fonrobert and C. Marx. Chem Age 32:167, 221-3 Ap-My '24
Artificial resins and plastic substances. A. C. Hopper. diag Chem Age (Lond) 13:270-2 S 12 '25
Azo-resin dyes—a new form of oil soluble colors. Color Tr J 16:73-4 Mr '25
Phenol-formaldehyde resins as constituents of lacquers and varnishes. A. C. Hopper. Chem Age (Lond) 13:370-1 O 10 '25
Phenol resins and resinoids. L. H. Baekeland and H. L. Bender. Ind & Eng Chem 17:225-37 [bibliog. p. 237] Mr '25
Pollopas—organic glass; a new synthetic colloid. F. Pollak and K. Ripper. Chem Age 32:409-12 O '24
Synthetic resin mouldings. G. M. Carpenter. Elec R (Lond) 96:211-13 F 6 '25
Synthetic resins and some aspects of their solubility. A. A. Drummond. Chem Age (Lond) 12:176 F 21 '25
Viscosity of syrupy condensation products of phenol and formaldehyde. A. A. Drummond. Soc Chem Ind J 43:323-6 N 7 '24

Testing

Directions for the study of varnish-paper and varnish-fabric boards and tubes. diags Inst E E J 62:160-72 F '24

RESINS. See Gums and resins; Rosin

RESINS, Synthetic. See Resinous products

RESISTANCE of materials. See Strains and stresses; Strength of materials

RESISTORS, Electric. See Electric resistors

RESONANCE
Determination of resonant frequencies and decay factors. E. Mallett. Inst E E J 62:517-25 Je '24
Electrical resonance; some light on surge breakdowns. E. Ambrose and P. B. Frost. Electrician 93:524-5 N 7 '24; Discussion. 93: 555; 94:11 N 14 '24, Ja 2 '25
Oscillations and resonance in systems of parallel connected synchronous machines. H. V. Putman. J Fr Inst 197:805-20 Je '24

RESONANCE potential
Analysis of resonance curves observed in potassium vapor. R. C. Williamson. Phys R 24:134-42 Ag '24

RESONATORS
Determination of the frequencies of the resonant tones of some compound resonators used in acoustical instruments. E. T. Paris. diags Philos Mag 6th ser 48:769-99 N '24

See also Helmholtz resonator

RESORCINOL
Condensation of β-chloro- and β-ethylcarbonato-propionitriles with resorcinol. E. Chapman and H: Stephen. Chem Soc J 127:885-92 Ap '25
Condensation of primary alcohols with resorcinol and other hydroxy aromatic compounds. R. N. Sen and N. N. Sarkar. Am Chem Soc J 47:1079-91 Ap '25
Condensations of aldehydes with resorcinol and some other aromatic hydroxy compounds. R. N. Sen and N. N. Sinha. Am Chem Soc J 45:2984-96 D '23
Dipheneins from resorcinol and substituted diphenic anhydrides; structure of certain diphenyl derivatives. H. Adkins, E: F. Steinbring and E. Pickering. Am Chem Soc J 46:1917-24 Ag '24
Substitution in resorcinol derivatives; nitration of derivatives of β-resorcylaldehyde. M. G. S. Rao, C. Srikantia and M. S. Iyengar. Chem Soc J 127:556-60 Mr '25

See also Dinitroso-resorcinol

RESORCINOL phthalein. See Fluorescein

RESORCYLALDEHYDE
Condensation of diphenylformamidine with phenols; a new synthesis of β-resorcylaldehyde. J: B. Shoesmith and J: Haldane. Chem Soc J 123:2704-7 O '23
Substitution in resorcinol derivatives; nitration of derivatives of β-resorcylaldehyde. M. G. S. Rao, C. Srikantia and M. S. Iyengar. Chem Soc J 127:556-60 Mr '25

RESPIRATION, Artificial
Artificial respiration saves lives. il Nation's Health 6:785-6 N '24
Carbon monoxide asphyxia: artificial respiration. C. K. Drinker and others. Am Gas Assn General Sessions sec v 5:83-101 [bibliog. p. 100-1] '23

RESPIRATORY apparatus
Artificial respiration and the H-H inhalator. H. J. Segrave. il Stevens Ind 42:88+ Jl 15 '25

RESPIRATORY apparatus—*Continued*
Consider the respirator. E. H. Brown. il Nat Safety N 10:37+ O '24
Liquid air mine rescue apparatus. il diags Engineering 117:619 My 9 '24
M.S.A. carbon monoxide self-rescue apparatus. diags Engineering 119:331 Mr 13 '25
Permissible explosives, mining equipment and apparatus approved prior to January 1, 1924. D. J. Parker. U S Bur Mines Tech Pa 364: 23-6 '24
Permissible explosives, mining equipment, and rescue apparatus approved prior to January 1, 1925. J. E. Crawshaw and others. U S Bur Mines Tech Pa 376:1-35 '25
Respirators, gas masks, hose masks, and breathing apparatus. il Nat Safety N 11:43-50 Ja '25
Respiratory protection from petroleum gases and vapors. S. H. Katz and J. J. Bloomfield. diags U S Bur Mines Bul 231:81-102, pl 16-17 '25
Self-contained mine rescue oxygen breathing apparatus. D. J. Parker, G. S. McCaa and E. H. Denny. 139p U.S. Bur of mines, Washington '23
Sur l'emploi du réactif iodicosulfurique pour la protection contre l'oxyde de carbone et autres gaz toxiques. J. Guillemard and A. Lührmann. diags Chimie & Ind 14:29-32 Jl '25

See also Gas masks

REST days
Analysis of Mexican state laws on wages and hours of labor, and employment of women and children. J: Ritchie. Monthly Labor R 17:1182-3 N '23
Court annuls day of rest law. A. L. H. Street. Power 61:315 F 24 '25
Question of a weekly stoppage in glass works using tank furnaces. Int Labour R 9:538-57 Ap '24
Sunday labour in gas-works. Gas J (Lond) 168:296-7 O 29 '24
Weekly suspension of work in glass factories. Int Labour R 10:558-62 O '24

REST periods
Recommendations of German medical factory inspectors as to rest periods. Monthly Labor R 20:992-3 My '25
Rest pauses in light repetition work. Engineering 117:310 Mr 7 '24
Two studies on rest pauses in industry; abstract. J Ind Hygiene 6:sup56-7 Ag '24

See also Fatigue

Bibliography
Brief bibliography on rest periods in industry. 11p Metropolitan life insurance co., 1 Madison av., New York

RESTAURANTS
Catering companies' profits. Economist 99:953 D 13 '24
Hot water in the English catering industry. il Gas Age 54:567-8 O 18 '24
Maillard's restaurant, Chicago, Ill. il plans Am Arch 127:545-52 Je 17 '25
New Arrowhead inn. M. Price. il diags plans Arch Forum 41:269-76 D '24
Pure air for restaurants. Dom Eng 108:35+ S 13 '24
Restaurant building for the Childs co., Coney Island, N.Y. F. S. Laurence. il Am Arch 126:217-23, pl 81-3 S 10 '24
Roadside inn ideal; Arrowhead inn. il plans Bldg Age 46:98-101 D '24
Unusual in restaurant design; the Piazetta, New York. il Am Arch 127:229-32 Mr 11 '25

See also Dining rooms; Hotels; Kitchen utensils; Lunch rooms and cafeterias, Employees'; Lunch wagons; Tea rooms

Advertising
Breaking a deadlocked market with newspaper advertising. J. True. Ptr Ink 128: 156+ Jl 24 '24
New market and advertising rescue a three-time failure. Ptr Ink 130:150+ Mr 12 '25

Employees
Hotel and restaurant employees agreement in Cleveland. Monthly Labor R 20:105-7 Ja '25

RESTITUTION, Coefficient of
Method of measurement of Newton's coefficient of restitution, and the law of oblique impact. H. G. Green. il Philos Mag 6th ser 50:187-94 Jl '25

RESTRAINT of trade
Collective agreements as to production as restraint of trade. Monthly Labor R 18:410-14 F '24
Cracking suit involves fifty; government charges fifty refiners with violation of Sherman act. Pet Age 14:13-14 Jl 1 '24
Fifty oil companies cited in suit filed by government—extortion plan alleged. Comm & Fin Chr 118:3161-2 Je 28 '24
Gasoline monopoly is charged against forty-nine oil companies in U.S. suit. Oil Paint & Drug Rep 105:19+ Je 30 '24
Government sues fifty oil companies charging gasoline monopoly. V. B. Guthrie. Nat Pet N 16:25-6 Jl 2 '24
Jobber's right to influence manufacturers not to sell chain stores. Ptr Ink 126:145-6+ Ja 10 '24
Latest oil suit; conspiracy based on patent pooling charged against Standard and Independent companies. Index p 3-4 Jl '24
Legal pitfalls in marketing products. G. H. Montague. Management & Adm 10:153-4 S '25; Same. Paper Tr J 81:59-60 N 19 '25
Pottery manufacturers vindicated. Sanitary & Heat Eng 101:335-7+ My 30 '24
Right to eliminate competition by contract. L. Childs. Ind Management 70:305 N '25
Sales policies and the Federal trade commission. J. T. Young. Ann Am Acad 115: 21-31 S '24
Some ill-considered aspects of trading agreements. Elec R (Lond) 94:629-30 Ap 18 '24; Discussion. 94:775 My 9 '24
What sales executives should know about dangers of misinterpreting trade association statistics. G. H. Montague. Management & Adm 10:93-4 Ag '25
When the Federal trade commission says you must sell. Ptr Ink 128:57-8+ S 25 '24

See also Competition, Unfair; Price fixing; Trade associations; Trusts, Industrial; *also* names of associations, e.g. Industrial association of San Francisco; National erectors' association; Sisal sales corporation

RESUPERHEATING. See Steam turbines—Resuperheating

RESUSCITATION
Counter-shock as a method of resuscitation following electrocution. A. Campbell and L. Hill. J Ind Hygiene 6:267-9 N '24
Employees dramatize public utility safety. il Nat Safety N 12:8 Jl '25
Inhalation method as an aid to resuscitation. C. T. Fish. il Gas Age 55:123, 128-9 Ja 24 '25; Same. Nat Safety N 11:9-11 Ja '25
Life saving by the prone pressure method. il Nat Safety N 10:13-14 Ag '24
Method of resuscitation from electrical shock. H. E. Fisher. Elec Ry J 66:691-2 O 17 '25
Plea for prolonged resuscitation. S. E. Whiting. Nat Safety N 12:30 O '25
Practical application of prone pressure method of resuscitation. M. C. Goodspeed. Safety Eng 46:307-9 D '23
Resuscitation training by the Alabama power company. W. P. Thomas. N E L A Bul 11: 457-8 Jl '24
Rules for first aid and resuscitation in gas asphyxiation by the prone pressure and oxygen + carbon dioxide methods. Am Gas Assn General Sessions sec v 5:73-108 '23
Seven Westerners receive Insull medals for resuscitation. N E L A Bul 12:267-8 Ap '25
Twenty win Insull medals for resuscitation. N E L A Bul 11:713-15 N '24

RETAIL salesmen. See Salesmen, Retail

RETAIL stores, Manufacturers'
Manufacturer's retail store that sets example for dealers; Edward Muller company's lighting fixtures. il Ptr Ink M 8:70+ F '24
Putting new life into an old business; Devoe & Raynolds co. J: A. Murphy. Ptr Ink 131: 3-4+ Je 18 '25

RETAIL trade
Advances and retrogressions in retailing. J. R. Sprague. Ptr Ink M 11:43-4+ Ag '25
Are retailers unable to appreciate real purpose of advertising? W: L. Day. Sales Management 7:1423-4 Ag '24
Are there too many retailers? L. D. H. Weld. Ann Am Acad 115:199-204 S '24
Better distribution will help stabilize employment. C. M. Wright. Ptr Ink 131:41-2+ Ap 2 '25
Business builder, one hundred carefully selected sales plans. C. N. Hoover. 104p C. N. Hoover, Denver, Col. '25
Coming changes in retail distribution; organizing department stores into chains. E: A. Filene. Ptr Ink 127:134+ My 8 '24
Consumer demand survey that will uncover new facts; a government investigation of meat retailing. Ptr Ink 129:10+ O 23 '24
Consumers who go to sleep on the retailer's books. Ptr Ink 130:141-2+ Ja 29 '25
Dealer tells why some advertisers are "in dutch" with him. G. T. Kernahan. Sales Management 7:1507-8+ S '24
Dealer who is afraid of national advertising. J. R. Sprague. Ptr Ink M 7:17-18+ D '23
Future developments in retailing. P. M. Mazur. Harvard Business R 2:434-46 Jl '24
Help retailers need from salesmen and from advertising copy. R. E. Kennington. Ptr Ink 132:131-2+ S 17 '25
Helping the retailer to help himself. J. R. Sprague. Nation's Business 12:68+ O '24
How retail libraries help business. E. Gilbert. Office Economist (Art metal construction co., Jamestown, N.Y.) 6:5-6+ Je '24
How retailers feel about sending their mailing lists to manufacturers. A. H. Van Voris. Ptr Ink M 10:100+ Ja '25
How the merchants of Ensley put business on its feet by providing bus transportation. il System 46:163-4 Ag '24
How to put the retailer right on advertised goods margin. G. A. Nichols. Ptr Ink 127: 3-4+ My 22 '24
How trade associations may help elevate the standards of retail merchandising. H. L. Ashworth. Ptr Ink 125:105-6+ D 6 '23
In the whirlpools of distribution. A. E. Dodd. Nation's Business 12:42+ My '24
Manual of variety storekeeping. 188p Butler brothers, New York '25
Manufacturer's or dealer's name—which counts most? A. Osborn. Ptr Ink 128:3-4+ S 25 '24
Measuring a retail market. U S Bur For & Dom Com Trade Information Bul 272:1-12 '24; Review. Ptr Ink 130:156+ F 12 '25
Merchandise control. H. B. Wess. 126p Dry goods economist, New York '25
Modern merchandising. W: R. Hotchkin. 296p Doubleday '25
Modern retail methods, records and accounting. L. M. Comstock. 522p United States corporation co., New York '25
More profits from merchandizing. E: A. Filene. 159p Shaw '25
New retail outlet for over fifteen industries; the basement section idea. G. A. Nichols. Ptr Ink 129:17-20 N 13 '24
Overcoming dealer jealousy of a too successful product. W. H. Heath. Ptr Ink 127: 17-20 Je 19 '24
Pepping up January. W. B. Edwards. Ptr Ink 129:17-20 D 25 '24
Relation of your credit to your capital investment. C: Goodwin. J Elec 52:202-4 Mr 15 '24
Retail buying. N. A. Brisco and J: W. Wingate. 396p Prentice-Hall '25
Retail buying, modern principles and practice. C. C. Field. 219p International textbook co., Scranton, Pa. '24
Retail distribution of textiles. S. M. Skinner. Textile Inst J 15:P444-7; Discussion. P448-52 S '24
Retail handbook. W. S. Hayward. 605p McGraw-Hill '24
Retail merchandising, planning and control. J. L. Fri. 371p Prentice-Hall '25
Retailer's most important function. J. H. Neal. Ptr Ink 131:48 My 14 '25
Size of retail business. Comm & Fin Chr 118: 2506 My 24 '24
Small merchant files a minority report. P. W. Kearney. Sales Management 8:541-2+ Ap 4 '25
Some reasons why retailers fail. Ptr Ink 129: 181-2+ D 11 '24
Tackling joint retail problems. Nation's Business 13:68 F '25
Trade commission orders abandonment of price maintenance of Holeproof hosiery co., of Milwaukee. Textile World 67:3991 Je 20 '25
Trend of retail trade, 1919-1923. Fed Res Bul 10:17-21 Ja '24
Use of estimates in control of merchandising operations. A. C. Hodge. Univ J of Business 3:397-412 S '25
We buy news along with merchandise. L: E. Kirstein. Comm & Fin 14:2199-2200 N 11 '25
What do you know about your customers' business? J. R. Sprague. Ptr Ink M 8:29-30+ Mr '24
What happened to private brands when the slump came. R. B. Simpson. Sales Management 7:1512+ S '24
What I found out about "branded" merchandize in a coast to coast survey. L. Allen. Ptr Ink 127:8+ My 15 '24
What is the future of the retail store? J. R. Sprague. Ptr Ink M 10:22-4+ F '25
What price advertising glory? J. R. Sprague. Ptr Ink M 10:32-4+ Mr '25
What retailers think of the leads you send them. H. A. Haring. Ptr Ink 129:131-2+ O 2 '24
What's the matter with retail business? prices need sober study. C. R. Ferrall. Ptr Ink 126:61-2+ Mr 20 '24
Who will dominate in the field of distribution? S. Bent. Am Bankers Assn J 18:321-2+ N '25
Why door-bell pushers sell circles around the retailer. Ptr Ink 129:157+ D 4 '24
Why national advertisers are "in dutch" with some retailers. Sales Management 7: 1211-12+ Jl '24
Why permit so many retailers to go broke? G. A. Nichols. Ptr Ink M 8:17-18+ Ja '24
Your city's retail trade. Comm & Fin 13:1074 Je 4 '24

See also Advertising—Dealer cooperation; Advertising—Dealers, Appeal to; Bargain sales; Cancellation of orders; Canvassing; Chain stores; Charge account (retail trade); Christmas business; Counter display cabinets; Country stores; Dealer helps; Delivery of goods; Department stores; Deposit accounts; Dry goods; Electric shops (retail trade); Exclusive agencies; Five-and ten-cent stores; Grocery trade; Marketing; Merchandizing; Plumbing shops; Price fixing, Resale; Purchasing; Returned goods; Sales manuals, Retail; Salesmanship, Retail; Salesmen, Retail; Signs; Special sales; Stores (retail trade); Street trades; Substitution (marketing problem); Traveling stores; Turnover; *also* Butte clerks' union; National supply and machinery distributors' association

Accounting
Do your dealers know how to figure profits? Ptr Ink 129:53-4+ O 30 '24
Our records tell us—. I. R. Jacobs. il System 47:51-3 Ja '25
Recording sales transactions. G: T. Altman. 92p Ronald press '24

Advertising
Advertising and the shopkeeper. H. W: Eley. 153p Pitman '24
Advertising gets much attention at retail dry goods convention. Ptr Ink 126:116+ F 14 '24

RETAIL trade—Advertising—*Continued*
Advertising now included in store leases. Ptr Ink 131:148 My 7 '25
Advertising the retail store. B: H. Namm. 228p U.P.C. book co. '24
Canadian retailer advertises to American buyers. Ptr Ink 133:73 O 29 '25
Cooperative retail advertising. U S Bur For & Dom Com Trade Information Bul 302:1-11 '25
Costless direct-mail campaign that rebuilt our business. H. Schloesser. System 47:307-10+ Mr '25
Country-wide advertising to make retailers' position clear to public proposed. J: S. Jones. Ptr Ink 125:53-4 N 29 '23
How the retail co-operative catalogue plan works. Ptr Ink M 11:108+ N '25
Ideas—the best dealer helps for high-class stores. J. True. Ptr Ink 131:49-50+ Ap 9 '25
Merchandising advice for retailers at advertising convention. Ptr Ink 128:155+ S 4 '24
Planning direct advertising for general stores. R. E. Ramsay. Inland Ptr 74:875-8 Mr '25
Retail advertising that capitalizes on national advertising. Ptr Ink M 9:72+ Ag '24
Retailer advertises his sources of supply. Ptr Ink 129:153-4 O 9 '24
Retailer spots a weak link in the manufacturer's chain. R. C. Bretz. Ptr Ink 131:17-20 Ap 30 '25
Retailers' invasion of national advertising. F. T. Ellison. Ptr Ink 126:17-20 F 28 '24
Shopping news movement. G. L. Caswell. Inland Ptr 73:921-2 S '24
Showing salesmen and retailers that other retailers do advertise. Ptr Ink M 11:62 Jl '25
Small store advertising; a special report by the Chamber of commerce of the U.S. Ptr Ink 129:50+ D 18 '24
Too many white plumes in retail advertising. H. A. Saks. Ptr Ink 129:125-6 O 23 '24
When dealers shoulder the manufacturer's burden. B. A. Grimes. Ptr Ink 132:49-50+ Ag 20 '25
Why Franklin Simon sells nationally. Ptr Ink 128:132 S 18 '24

See also Department stores—Advertising

Comparative price policy

Case against comparative prices. B. G. Priestley. Nation's Business 13:60 O '25

Costs

Answers to your dealers' questions. Ptr Ink 127:8+ Je 12 '24
Can the small merchant compete with the large store? C. E. Fraser. Harvard Business R 3:456-65 Jl '25
Operating expenses of retail grocery stores in Nebraska in 1924. (Nebraska studies in business, no. 12) 29p Univ. of Nebraska Ext. div., Lincoln '25

Finance

What advertising can do for commercial credit. J. R. Sprague. Ptr Ink M 10:41-2+ My '25

History

What national advertising has done for retailers. J. R. Sprague. Ptr Ink M 10:19-20+ Ja '25

Statistics

Estimate of the volume of retail business in the United States. P. H. Nystrom. Harvard Business R 3:150-9 Ja '25
Retail sales, 1921-1924. Survey of Cur Business 30:150-4 F '24 [continued quarterly]
Retail trade, by reporting lines; average monthly sales. Published in monthly numbers of Federal reserve bulletin
Watching the fluctuations in retail and wholesale trade. W. R. Burgess. Credit M 26:8-9 N '24

Stock

Big outlet offered advertisers by diversification of retail stocks. G. A. Nichols. Ptr Ink 128:3-4+ S 4 '24
Drop shipments as a solution for piecemeal buying. M. Hastings, jr. Ptr Ink 131:125-6+ Ap 16 '25
Four causes of piecemeal buying. G. A. Nichols. Ptr Ink 130:69-70+ F 5 '25
Getting dealers to feature your entire line—exclusively; Gordon hosiery department idea. G: P. Hall. Ptr Ink M 11:45-6 S '25
Grave problems in hand-to-mouth buying. S. E. Ward. Annalist 25:643 My 11 '25
Hand-to-mouth buying as viewed by wholesalers. V. E. Carroll. il Textile World 67: 829-30 F 7 '25
Hand-to-mouth buying—is it business salvation or starvation? E. Wolff. Ptr Ink M 11:49-50+ S '25
Hand-to-mouth system of buying declared as serious menace. D. N. Mosessohn. Comm & Fin Chr 121:921-2 Ag 22 '25
How manufacturers watch retailer's stock turnover. R. Leigh. Ptr Ink 132:138+ Jl 16 '25
How Republic Brass won a place in the sun with the jobbers; campaign capitalizes hand to mouth buying. Sales Management 8:881-2 Je 13 '25
How to answer the hand-to-mouth buyer. M. Hastings, jr. Ptr Ink 129:17-20 O 23 '24
How we make small-lot buying yield extra profits. D. Hubbard. Ptr Ink 130:110+ Mr 19 '25
Increasing business by encouraging hand-to-mouth buying. B. P. Disque and J: A. Murphy. Ptr Ink M 11:33-4+ N '25
Is hand-to-mouth buying best policy? Iron Tr R 76:1223-4 My 7 '25; Iron Age 115:1356-7+ My 7 '25
Merchandise control. H. B. Wess. 126p Dry goods economist, 239 W. 39th st., New York '25
More reasons why small-order idea is here to stay. G. A. Nichols. Ptr Ink 131:33-4+ Je 4 '25
Retailers' stocks too big, in proportion to sales. F. C. Hamlin. Ptr Ink 127:183+ Ap 17 '24
Sometimes it pays to overload a dealer. H. D. Arthurs. Ptr Ink 132:90 Jl 9 '25
Too many lines—the retailer's jinx. Ptr Ink 132:137-8 Ag 27 '25
When minimum order rule is not good merchandising. G. A. Nichols. Ptr Ink 129:3-4+ D 11 '24
Why watch your competitor buy? A. Fantl. Comm & Fin 13:1355-6 Jl 16 '24
Why we always have what customers want. I. V. Kisseberth. il System 46:567-70+ N '24

See also Turnover

Store management

Budgetary control in retail store management. U S Bur For & Dom Com Trade Information Bul 266:1-13 '24
Every sale is tallied. N. J. Fulop. System 47:238 F 25
Four most important things we learned in rebuilding our business. H. Schloesser. il System 47:633-6 My '25
How concentration and turnover build a retail business. E: M. Skinner. Ptr Ink M 10: 17-18+ My '25
How our store makes friends. Nation's Business 12:52+ F '24
How we curbed the returned-goods evil. D. Bloomfield. System 48:585-6 N '25
If I ran a store on Main street. A. L. Filene. il Nation's Business 13:18-20 Mr '25
It's our best merchandising idea—and why. L: T. Marshall. System 47:605-7 My '25
Keeping your local trade at home. W. L. White. Nation's Business 12:40+ Ap '24
Managing a store for greater profit. Published in monthly numbers of System

RETAIL trade—Store management—*Continued*
Managing ideas win dealer co-operation. C. C. Casey. Ptr Ink 132:105-6+ S 24 '25
Merchant's horizon. A. L. Filene and B. Kline. 265p Houghton '24
Merchants' manual, published under the auspices of the National retail dry goods association. L. Hahn and P. White, eds. 614p McGraw-Hill '24
Model stock plan. E: A. Filene. System 44: 269-74+, 431-4+, 583-6+, 754-7; 45:37-40+, 183-7+, 317-19+, 469-73+, 637-9+ S '23-My '24
133% on invested capital; 7 turns, through the "flyer" plan. C: S. Miller, jr. System 46: 786-7+ D '24
Principles and methods of retailing. J. H: Greene. 287p McGraw-Hill '24
Putting personality into sales. H: L. Breithaupt. System 48:222+ Ag '25
Retail advertising and selling. S. R. Hall. 566p McGraw-Hill '24
Retail receiving practice. N. A. Brisco and J: W. Wingate. 354p Prentice-Hall '25
Retail selling and store management. P. H: Nystrom. 279p International textbook co., Scranton, Pa. '24
Retail store planning. U S Bur For & Dom Com Trade Information Bul 291:1-9 '24
Sermon to retailers. T. H. Price. Comm & Fin 14:371-3 F 25 '25
Some wastes in retailing. I. S. Paull. il Nation's Business 13:24-5 Mr '25
Stopping 74 leaks in retail management. J: Blakely. System 44:788+ D '23
Success in retailing. 207p Butler bros., New York; Chicago '24
Three ways we boosted our volume. H. Schloesser. il System 47:485-7+ Ap '25
We expand at home first. J. F. Gibson. il map System 47:771-4+ Je '25
What shall retailers do about returned goods? Ptr Ink 132:10+ S 17 '25
When does it pay to move? L. B. Cummings. System 45:614-17+ My '24
Your dealers need help in laying out their stores. W. A. Bowe. il Ptr Ink M 11:43-4+ S '25

See also Department stores—Management

Canada

How retail conditions in Canada correspond with those in U.S.A. B. R. Brooker. Ptr Ink 128:102+ Jl 10 '24
Marketing conditions in Canada affecting American advertisers. B. R. Brooker. Ptr Ink 128:129-30+ Ag 14 '24

Great Britain

Branch shop companies. Economist 99:224-5; 101:259-61 Ag 9 '24, Ag 15 '25
British retailer's point of view. M. Rittenberg. il Sales Management 6:891-2 pt 2 Ap '24
Profits of London stores. Economist 98:865-6; 100:1125-6 Ap 26 '24, Je 6 '25

United States

Autumn industries. Moody's Inv Serv 17:278 Ag 20 '25

RETAINING walls
Checking slides and washouts on railways in India. diags Eng N 94:268-9 F 12 '25
Modification of Rankine's theory of earth pressures on retaining walls. W: J. Walker. Philos Mag 6th ser 49:476-80 F '25
Retaining wall design. il Can Eng 49:312 S 15 '25
Type de fondation, sur pieux, avec éperon en béton, pour murs de soutènement. F. Chaudy. diags Génie Civil 86:138-40 F 7 '25

See also Dams; Earth pressure; Earthwork; Embankments; Railroads—Construction; Reservoirs; Wharves

Testing

Tests of sand pressure against walls. diags Eng N 93:804, 1048 N 13, D 25 '24

RETAINING walls, Concrete
Concrete cribbing replaces wall. R. L. Dyke. il Eng & Contr (G C) 64:629-30 S 16 '25
New concrete cribbing makes handsome wall. il Eng & Contr (G C) 64:919-20 O 21 '25
Protecting West Virginia highways from sliding hill damage. il Eng N 94:30 Ja 1 '25
Reinforcing a damaged retaining wall. il diags Concrete 26:206 Je '25
Step-retaining walls at Astoria, Oregon, U.S.A. il diags Engineering 117:138-9, 146 F 1 '24
Street retaining wall founded on fill of large boulders. H. W. Levy. il diags Eng N 91: 898-9 N 29 '23

RETENE
Retene—a possible valuable by-product of sulphate pulp mills. Paper Tr J 80:47 Je 18 '25

RETORTS
American progress in retorting oil shale; Catlin and Brown retorts. S. D. Kirkpatrick. il Chem & Met Eng 31:770-5 N 17 '24
Experimental steam retort at Colorado station of Bureau of mines. Chem & Met Eng 32:324-5 F 23 '25

RETTING
California develops new retting process. Chem Age 33:61-2 F '25
Experimental study of flax retting. J. V. Eyre and C. R. Nodder. il diags Textile Inst J 15:T237-72 My '24
Our present knowledge of the retting process of flax. G. Ruschmann. il diag Textile Inst J 15:T61-74 F '24
Retting of flax, hemp, etc.; French patent. Am Dyestuff Rep 14:34-5 Ja 12 '25

RETURNED goods
Cutting out waste in distribution. A. L. Filene. Nation's Business 13:35-7 N '25
How 112 jobbers cut down on returned goods evil. G. A. Nichols. Ptr Ink 131:97+ Ap 30 '25
How we curbed the returned-goods evil. D. Bloomfield. System 48:585-6 N '25
Place blame for returned goods on salesmen's shoulders. Sales Management 9:501-2+ O 17 '25
Plan for handling returned goods. W. E. Gunnerson. Ind Management 68:228 O '24
Returned goods in the jobbing plant. E. W. Leach and J. F. Koch. Am Mach 61:757-9 N 13 '24
What can be done about the question of returned goods? Ptr Ink 126:123-4 Ja 17 '24
What can be done about trade abuses? H. M. Maxwell. System 47:734-6 Je '25
What shall retailers do about returned goods? Ptr Ink 132:10+ S 17 '25
Why some wholesalers insist on privilege of returning goods they have bought. H. A. Haring. Ptr Ink 127:3-4+ Ap 3 '24

RÉUNION

See also Water power—Réunion

Industries and resources

Mise en valeur de l'ile de la Réunion; aménagement de ses chutes d'eau. L. Guérin. maps Soc Ing Civils Bul 78:152-80, pl 89 Ja '25

REVALUATION law. See Germany—Revaluation law

REVENUE

Great Britain

Revenue of the United Kingdom. Roy Statis Soc J 87:159 Ja '24

REVENUE act of 1918
Deductible losses under the revenue act of 1918. G. C. Carson. J Account 37:73-5 Ja '24

REVENUE act of 1924
Basis for property acquired for stock. J: W. Roberts. J Account 40:100-7 Ag '25
Digest of changes between the 1921 and 1924 tax laws. H. A. Harris. Sanitary & Heat Eng 102:8-10+, 57-9, 92-3 Jl 11-Ag 8 '24
Intelligent law-making the only solution for income tax problems. M. W. Kriegh. Min Cong J 10:463-6+ O '24
New income tax law. M. L. Seidman. Refrig W 59:35-6 Je '24
1924 tax law is analyzed. H. A. Harris. Iron Tr R 74:1573-6, 1677-9 Je 12, 26 '24

REVENUE act of 1924—*Continued*
Opportunities for fiduciary and banking business under new revenue laws. J. Dunn, jr. Comm & Fin Chr 119:165-7; Discussion. 167-8 sec 2 O 18 '24; Same abr. Am Bankers Assn J 17:257-8 O '24
Opportunity for fiduciary business under new revenue act. J. Dunn, jr. Am Bankers Assn J 17:3-4 Jl '24
President Coolidge on the uneconomic provisions of the new revenue law. Econ W n s 27:811 Je 7 '24
President Coolidge signs tax revision bill. Comm & Fin Chr 118:2775-7 Je 7 '24
Report of I.B.A. federal taxation committee. Comm & Fin Chr 119:1465-6 S 27 '24
Revenue act of 1924. 236p National bank of commerce in New York, New York '24
Revenue act of 1924; full text. Comm & Fin Chr 118:supl-24 Je 7 '24
Security holders and the revenue act of 1924. M. W. Kriegh. Min Cong J 10:289-90 Jl '24
Significant changes in the revenue act. Comm M 6:9-11 Jl '24
What changes should be made in income tax laws. J: Laing. Coal Age 26:871-3 D 18 '24

REVOCABLE trusts. See Trusts and trustees—Revocable trusts

REWARDS, prizes, etc.
See Bonus system; Perkin medal

RHEA. See Ramie

RHENIUM
Masurium and rhenium—two missing elements—found. Sci Am 133:336 N '25

RHEOSTATS
Control of e.m.f. il diags Power Pl Eng 29: 21-3 Ja 1 '25
Exciter field rheostats. J. F. Formanek. diags Gen Elec R 28:125-8 F '25
How car-type resistors can be standardized. Elec Ry J 62:910-11 N 24 '23
Improved type of resistor mounting. H. S. Williams. diags plans Elec Ry J 62:982 D 8 '23
Power saved by use of water rheostat in rotor of pump motor. diag Ind Eng 81:603-4 D '23
Rheostat for testing blasting machines. il diag Eng & Contr (Equip R) 62:963-4 O 29 '24
Using water rheostat to obtain emergency excitation. C. D. Dispennette. Power 59:25-6 Ja 1 '24
Water rheostat used for testing circuit breakers. H. T. Hurlock. il diags Elec Ry J 65: 90 Ja 17 '25
See also Electric controllers; Electric resistance

RHINE river
Der ausbau des Rheins zwischen Basel und Bodensee. E. Mattern. diag maps Zeit Ver Deutsch Ing 68:752-6, 774-6 Jl 19-26 '24
Die beschlüsse der zentralkommission für die Rheinschiffahrt zu der schiffbarmachung des Rheins von Strassburg bis Basel und ihre folgen. Kupferschmid. Elektrotech Zeit 46:1224-5 Ag 13 '25
Rheinbrücken. M. Carstanjen. il Zeit Ver Deutsch Ing 69:1409-56 Ag 8 '25
Rheinhäfen. Dassen. il Zeit Ver Deutsch Ing 69:1057-63 Ag 8 '25
Die rheinschiffahrt. Zilcher. il diags plans Zeit Ver Deutsch Ing 69:1065-70 Ag 8 '25

RHODAMINE
Electrolytic capacity and resistance of pt-rhodamine B-pt cell, as determined by a phase angle method of measurement. Kuo-Feng Sun. Phys R 23:617-30 My '24
Optical properties of fluorescent rhodamin B. A. Poritsky. J Fr Inst 197:527-39 Ap '24
Ring-chain tautomerism; the flouresceins and rhodamines. S. Dutt and J. F. Thorpe. Chem Soc J 125:2524-38 D '24

RHODANIC acids
Condensation of rhodanic acids with isatin; 3-aryl-rhodanal-$\Delta^{5,3'}$-oxindoles. R. M. Hann. Am Chem Soc J 47:1189-91 Ap '25

RHODANINE
Condensation of the isomeric tolyl-2-thio-4-keto-thiazolidines (rhodanic acids) with substituted vanillins. R. M. Hann. Am Chem Soc J 47:1998-2002 Jl '25

RHODE ISLAND school of design, Providence, R.I.
Visit to the Rhode Island school of design. A. F. Saunders. Metal Ind 21:490 D '23

RHODESIA
See Copper mines and mining—Rhodesia; Gold mines and mining—Rhodesia; Hydroelectric plants—Rhodesia; Mines and mineral resources—Rhodesia

RHODIUM
Palladium and rhodium discovery; occurrence proved in British Guiana. Chem Age (Lond) 10:624 Je 14 '24

Analysis
Investigations on the platinum metals; the analytical separation of rhodium from platinum. E: Wichers. Am Chem Soc J 46:1818-33 Ag '24

RHONE-RHINE canal
L'alimentation mécanique des biefs supérieurs du versant sud du canal du Rhône au Rhin. C: Dantin. il diags map Génie Civil 86:158-63 F 14 '25; Abstract (Improvement of the Rhine to Rhone canal). Engineer 139:291 Mr 13 '25

RHONE river
La construction de l'usine-barrage de Chancy-Pougny. L. Vennin. diags maps Soc Ing Civils Bul 77:324-54, pl 72 Ap '24

RIBBONS
Coloring and sizing of ribbons. I. Ginsberg. Textile Col 47:571-3 S '25
Dyeing and sizing of ribbons. Am Dyestuff Rep 14:343-4 My 18 '25

RIBBONS, Copying
United States government master specification for ribbons for computing and recording machine. U S Bur Stand Circ 188: 1-4 '24

RICE
Effort to increase rice consumption. H. L. Gueydan. il Manuf Rec 86:77-9 N 20 '24
Outlook for rice. Economist 99:190 Ag 2 '24
Rice field irrigation in Arkansas. il Eng & Contr (W W) 61:115-16 Ja 9 '24
Rice industry in the South. R. J. Martinez. il Manuf Rec 86:215-17 pt 2 D 11 '24
Rice; its cultivation and preparation. C: E. Douglas. 143p Pitman '24
Romances of industry—rice. C. A. Carriere. il Am Ind 25:15-18 Ja '25
World rice situation. Econ W n s 29:160 Ja 31 '25

RICE mills
Architectural significance of the rice mills of Charleston, S.C. S: Lapham, jr. il Arch Rec 56:178-84 Ag '24

RICHARDS, Ralph C.
Father of safety first. Ry R 76:155-6 Ja 17 '25

RICHARDSON, Clifford
Sketch. C: N. Forrest. por Ind & Eng Chem 16:1281 D '24

RICHARDSON, Holden C., 1878-
Sketch. por Aviation 15:710-11 D 10 '23

RICHARDSON and Boynton company
Attractive stock investments. Moody's Inv Serv 17:47 F 5 '25

RICHMOND, Virginia

Churches
St Mark's church, Richmond, Va.; views and plans. Arch Forum 40:pls 57-9 Ap '24

Harbor
Rail and water terminal and channel improvement planned at Richmond. Eng N 95: 515 S 24 '25

Rapid transit
New Richmond valuation figure $11,006,987. Elec Ry J 65:870-1 My 30 '25

RICHMOND, Virginia—Rapid transit—*Cont.*
State aid sought by Virginia railway & power company. Elec Ry J 63:710 My 3 '24
Surplus over charges greater on southern property. Elec Ry J 65:868-9 My 30 '25

Water supply
Features of new water filtration plant at Richmond, Va. W. Donaldson. il Eng N 93: 623 O 16 '24

RICKENBACKER motor company, Detroit
How Rickenbacker advertising averted bankruptcy. E. L. Pelletier. Ptr Ink 128:75-6 Jl 17 '24
Rickenbacker plan for breaking in new territory. E. V. Rickenbacker. map Sales Management 6:919-20 My '24

RIDDLE, Edward N., company
Sales doubled when modern ideas took the place of old. A. Belden. Ptr Ink 126:41-2+ Ja 17 '24

RIDEAU canal
Col. By and the Rideau canal. H. P. Hill. Can Eng 46:262 F 19 '24

RIDGWAY, Robert, 1862-
New president of American society of civil engineers. por Eng N 94:166 Ja 22 '25

RIDING academies
Troop A armory and riding academy, Cleveland, Ohio. il plans Am Arch 126:211-14 Ag 27 '24

RIESBECK, E. W.
Regarding Riesbeck. por Dom Eng 110:68-9 Ja 10 '25

RIFLE shooting
Wandering rifle bullet. Sci Am 130:259 Ap '24

RIFLES
Manufacture
Manufacture of the bolt of the Springfield rifle. E. McFarland. il diags Mech Eng 46: 463-70; Discussion. 470-1 Ag '24

RIG irons
Report of special committee on standardization of rig irons. Am Pet Inst Bul 5:44-5 D 31 '24
Rig iron standardization accomplished. A. F. Hinton. Nat Pet N 16:21-2 D 10 '24

RIGGS national bank, Washington, D.C.
Romance of the Riggs national bank. W. H. Smith. il Bankers M 111:659-66 O '25

RIGHI-Leduc effect
Connections between the four transverse galvanomagnetic and thermomagnetic phenomena. P. W. Bridgman. Phys R 24:644-51 D '24

RIGHT of way. See Eminent domain

RIGHT to privacy
What are your legal rights to testimonials? E: I. Devlin, jr. Ptr Ink M 10:64+ Ap '25

RIGIDITY
Simple rigidity of a drawn tungsten wire at incandescent temperatures. W: Schriever. diag Phys R 23:255-65 F '24

RING formation
Additive formation of four-membered rings; the influence of temperature on the tendency toward self-addition of the nitroso-group. C. K. Ingold and H: A. Piggott. Chem Soc J 125:168-76 Ja '24
Additive formation of four-membered rings; the nomenclature of four-membered heterocyclic rings, and the formation and properties of some derivatives of methylene-1: 2:4-oxadiimine. C. K. Ingold. Chem Soc J 125:87-102 Ja '24

RING systems
Proposed international rules for numbering organic ring systems. A. M. Patterson. Am Chem Soc J 47:543-61 F '25

RINGS, Fruit jar. See Fruit jar rings

RINGS, Loose leaf
Large uses of steel in small ways. Iron Tr R 77:78+ Jl 9 '25

RIO DE JANEIRO
Resaca of Rio de Janeiro. R. Ryves. il plans Engineer 137:380-1, 388 Ap 11 '24

Harbor
Waves do serious damage at Rio de Janeiro. G: Schobinger. il map Eng N 93:1028-9 D 25 '24

RIO GRANDE river
Channel improvement of Rio Grande below El Paso. S. Arroyo. diags plan Eng N 95: 374-6 S 3 '25
Effect of Rio Grande storage on river erosion and deposition. L. M. Lawson. il map Eng N 95:372-4 S 3 '25; Discussion. 95:968-9 D 10 '25

RIO TINTO mines. See Copper mines and mining—Spain

RIPARIAN rights
See Water laws and legislation

RISK
Approach to the theory of business risks. F. Lavington. Econ J 35:186-99 Je '25
Readings in risk and risk-bearing. C: O. Hardy. 368p Univ. of Chicago press '24
What price profits? taking risks! W: T. Foster and W. Catchings. Nation's Business 13:16-19 Jl '25

RIVER Rouge plant. See Ford motor company

RIVER traffic
Comparison of rail and river transportation costs in relation to the Ohio river and its tributaries. F. H. Alfred. Am Soc C E Pro 51:1663-73 O '25
Economics of transportation on the Mississippi river. J. E. Ransdell. Am Soc C E Pro 49:2028-44 D '23
Federal barge line proving costly experiment; Mississippi-Warrior service. il Ry Age 76:381-3 F 9 '24; Same. Eng & Contr (Ry) 61:1364-7 Je 18 '24
Lakes pay U.S. large dividends; freight carrying cost on waterways. L. C. Sabin. il Marine R 55:1-6 Ja '25
Radio brings commerce back to the rivers. A. Richardson. il Manuf Rec 88:97-8 S 3 '25
Relation of the Ohio-Mississippi waterways to production and industrial development. H. B. Luther. Am Soc C E Pro 51:1659-62 O '25
Relation of the Ohio river and its tributaries to transportation in the United States. C. W. Kutz. Am Soc C E Pro 51:1642-58 O '25; Abstract. Ry Age 78:1139-41 My 9 '25
Revival of commercial transportation of the Mississippi. M. J. Sanders. Am Soc C E Pro 49:2022-7 D '23
Rheinhäfen. Dassen. il Zeit Ver Deutsch Ing 69:1057-63 Ag 8 '25
Die rheinschiffahrt. Zilcher. il diags plans Zeit Ver Deutsch Ing 69:1065-70 Ag 8 '25
River and canal cargo traffic. Survey of Cur Business 30:164-5 F '24 [continued quarterly]
River-and-rail freight terminal at Memphis, Tenn. G: W. Foster. il diags plan Eng N 93:696-8 O 30 '24
River-rail terminal. J. A. Pollak. Am Soc C E Pro 51:1674-6 O '25
River transportation. A. E. Crockett. il diags Eng Soc W Pa 40:1-12; Discussion. 13-26 F '24
Steel companies ship by river. W. H. Lloyd. il Marine R 55:95-6 Mr '25
Upper Mississippi river transportation. J. Brodie. diags Soc Auto Eng J 14:516-21 My '24
Waterway transportation uneconomic. F. H. Alfred. Ry Age 78:1141-2 My 9 '25
See also Barges; *also* names of rivers, e.g. Mississippi river; Thames river

RIVERS
Behavior of débris-carrying rivers in flood. F. N. Holmquist. il Eng N 94:362-5 F 26 '25
Discharge from catchment areas in India as affecting the waterways of bridges. G: E. Lillie. Engineering 117:87 Ja 18 '24
More than $35,000,000 allotted for rivers and harbors—over $20,000,000 in the South. Manuf Rec 87:78 Ap 16 '25
Pollution of Wisconsin waters. F. R. King. il map Dom Eng 113:16-18+ O 10 '25

RIVERS—*Continued*
Rating of rivers. Elec W 85:167 Ja 17 '25
Wanted—a standard method of rating rivers. C. Herschel. Elec W 84:1001-2 N 8 '24

See also Dams; Embankments; Erosion; Flood control; Floods; Hydraulic engineering; Hydraulics; Ice on rivers, lakes, etc.; Oil pollution of rivers and harbors; River traffic; Stream flow; Water flow; Water laws and legislation; Water pollution; Water power; Water rights; Water supply; Waterways; *also* names of rivers, e.g. Clarion river; Mississippi river; Ohio river; Susquehanna river; Tennessee river

Bank protection

Ancient and modern engineering in China. O. J. Todd. il Eng & Contr (Ry) 62:137-40 Jl 16 '24
Belt conveyors used in placement of stone on mat revetment. il Eng N 92:620 Ap 10 '24
Brush mattress and mud-cell revetment protects Missouri Pacific Ry. il diag Eng N 92:1024-5 Je 12 '24
Checking slides and washouts on railways in India. diags Eng N 94:268-9 F 12 '25
Curbing a threatened diversion of the Missouri river. il plans Eng N 93:373-5 S 4 '24
Current retards on American rivers. il diags Engineer 136:689-91 D 28 '23
Practical hydraulic engineering problems; brushwood constructions. O. C. A. van Lidth de Jeude. Engineer 137:260 Mr 7 '24
Protecting steep banks by planting live willow poles. il Eng N 94:822-3 My 14 '25
Red river bank erosion checked by mattress of automobile bodies. map Eng N 92:539 Mr 27 '24
Revetment of stone and wire mesh placed as continuous layer. il Eng N 92:525 Mr 27 '24
Seven pile dikes protect Missouri river bank against erosion. F. Y. Parker. il Eng N 95: 519-20 S 24 '25

Regulation

L'aménagement des rivières américaines au moyen d'épis. P. Caufourier. il diags Génie Civil 84:598-9 Je 21 '24
Der ausbau des Rheins zwischen Basel und Bodensee. E. Mattern. diag map Zeit Ver Deutsch Ing 68:752-6, 774-6 Jl 19-26 '24
Le barrage-réservoir du Sautet, sur le Drac (Isère). E. Dusaugey. il diags maps Génie Civil 87:12-17 Jl 4 '25
Calumet drainage ditch reverses flow of river. R. D. Hammons. diags Eng N 94:432-4 Mr 12 '25
Channel improvement of Rio Grande below El Paso. S. Arroyo. diags plan Eng N 95: 374-6 S 3 '25
Deepening rivers with explosives. Eng & Contr (W W) 60:1272 D 12 '23
La démolition du barrage et de l'écluse de la Monnaie, à Paris. H. Lang. il diag plans Génie Civil 87:341-5 O 24 '25
Effect of Rio Grande storage on river erosion and deposition. L. M. Lawson. il map Eng N 95:372-4 S 3 '25; Discussion. 95:968-9 D 10 '25
How river regulation and flood control can be made to extend old markets. W. Parker. Am Ind 25:33-5 O '24
How the Mississippi river is regulated. C: L. Potter. il diags Eng N 94:508-14 Mr 26 '25
Plan to restore lake levels. C. L. Campbell. map Can Eng 49:438 O 6 '25; Discussion. 49:465, 525 O 13, N 3 '25
Pouring wealth into the sea. W. Parker. Comm & Fin 14:162 Ja 21 '25
Die praktische lösung der Donauversinkungsfrage. Christaller. diags map Zeit Ver Deutsch Ing 69:933-6 Jl 11 '25
Progress of St Louis new water works on the Missouri; directing the flow of a big river. Eng N 94:633 Ap 16 '25
Projet de régularisation de la Haute-Seine, par dérivations du fleuve et de ses affluents dans des barrages-réservoirs. map Génie Civil 83:495-7 N 17 '23
Regulation of rivers without embankments as applied in the training works at the headwaters of the Rangoon river, Burma. F. A. Leete and G. C. Cheyne. Van Nostrand '24
Regulation of the Murray river. il diags map Engineering 119:371-4, 405-6, 469-70, 532-5, 546, 565-6, 576, pl 24-5, 30, 34 Mr 27-Ap 3, 17, My 1-8 '25
Regulation of the river Seine. diag map Engineering 118:682-4 N 14 '24
River and harbor problems of the lower Mississippi: a symposium. Am Soc C E Pro 49: 1133-1249, 1722-31 Ag, O '23; Discussion. 49: 1624-43, 1792-8, 1929-35, 2045-59; 50:83-8 S '23-Ja '24
River diversion and flood control projects in North Dakota. Eng N 94:774 My 7 '25
River improvements in the Netherlands. O. C. A. van Lidth de Jeude. Engineer 137:260 Mr 7 '24
River regulation determined by hydraulic experiments. il diags Eng N 93:429-31 S 11 '24
State and national duty in conservation of water resources; a new stream policy; government planning and control of water storage. C. E. Grunsky. Eng N 92:11-12 Ja 3 '24
Treatment to prevent blocking of culverts by debris; report of A.E.R.A. committee. Ry R 74:599-601 Mr 29 '24; Same. Eng & Contr (Ry) 61:619-25 Mr 19 '24; Abstract. Eng N 92:535 Mr 27 '24
Turning the Yellow river back into its channel. il maps Eng N 92:224-7 F 7 '24
While Congress wastes millions Ohio river traffic languishes. F. B. Pletcher. Marine R 55:83-5 Mr '25

See also Barrages; Channels; Dams; Dikes (engineering); Flood control; Jetties; Levees; *also* names of rivers, e.g. Colorado river, Detroit river, St Lawrence river

France

Congrès national de la navigation intérieure et de l'aménagement des eaux (Grenoble et Lyon, 16-22 juillet 1925). A. Pawlowski. Génie Civil 87:213-15, 230-3 S 5-12 '25

RIVERSIDE junior college
Training the future employee through cooperative education; Riverside junior college, Riverside, California. H. H. Bliss. J Elec 52:205-6 Mr 15 '24

RIVETED joints
Butt and double-strap joint, double-riveted. diag Power 60:819 N 18 '24
Efficiency of butt and double-strap joint quadruple-riveted. diag Power 61:231 F 10 '25
Polar diagrams for riveted connections. J. B. Clarke. Engineer 136:639 D 14 '23
Strength of riveted joints. diags Power 58:824 N 20 '23

Bibliography

Bibliography on riveted joints. 12p American soc. of mechanical engineers, New York '24

Testing

Slip of riveted joints in single and repetitive loading. D: H. Blakelock. Eng N 92:972-3 Je 5 '24
Spot-welded girders and columns tested for strength. L. B. Tuckerman. diags Eng N 92:982-3 Je 5 '24
Stresses in a few welded and riveted tanks tested under hydrostatic pressure. A. H. Stang and T. W. Greene. il diags U S Bur Stand Tech Pa 243:645-66 '23

RIVETING
American electric rivet heater. il Ry R 76:782 Ap 25 '25; Eng & Contr (Equip R) 64:724 S 30 '25; Am Mach 63:796 N 12 '25
Coupler yoke riveting machine. G. C: Hoey. il diags Ry Mech Eng 99:110 F '25
Die screw adjustment for the Hanna riveting machine. il Ry Mech Eng 98:377 Je '24
Electric rivet heater. il diags Engineering 118: 828, 829-30 D 19 '24
Hand riveting punch. E. L. Holcomb. diag Mach 30:699 My '24

RIVETING—*Continued*
Hanna pneumatic punch, riveter and press. il Automotive Ind 51:853 N 13 '24
Hanna special riveter for structural shops. il Iron Age 114:1134 O 30 '24
Holman pneumatic riveting tools. il diags Engineering 120:542 O 30 '25
Humil improved rivet heater. il Elec Ry J 64:851 N 15 '24
Kobert electric riveting and forging machine, type NC. il Am Mach 63:559 O 1 '25
Machine drives five rivets to one by hand. O. H. Jorgensen. il Elec Ry J 63:778 My 17 '24
Making high-pressure vessels tight. D. J. Champion. Power 62:521 O 6 '25
New type riveting hammer. il Elec Ry J 62: 1016 D 15 '23
Oilgear company develops new hydraulic riveter. il Automotive Ind 50:558 Mr 6 '24; Iron Age 113:710 Mr 6 '24; Mach 30:569 Mr '24; Ry Mech Eng 98:314 My '24
One-man riveting fixture. H. Casey. il Am Mach 60:518 Ap 3 '24
Plunger suspension for riveting machines. il Ry Mech Eng 98:566 S '24
Pneumatic riveting device. T: R. Chambers. diag Mach 31:813 Je '25
Portable forge for heating rivets. diags Ry Mech Eng 99:228-9 Ap '25
Riveting stresses in boiler plates. R. Baumann. Engineer 140:sup124-5 Ag 28 '25; Discussion. R. C. Kirkwood. 140:294 S 18 '25
Southwark riveter for boiler and still fabrication. il Iron Age 115:1484 My 21 '25; Marine Eng 30:350 Je '25
Spinning rivets on controller fingers. il Elec Ry J 64:928 N 29 '24
Welding vs. riveting of large structures. W. Spraragen. Iron Age 115:1051+ Ap 9 '25; Same. Eng & Contr (Bldgs) 64:946-51 O 28 '25

See also Riveted joints; Rivets

RIVETS
Dimensions for tinners and coopers rivets. diag Sheet Metal Worker 16:578 S 11 '25
Pneumatic handling of red hot rivets. G: F: Zimmer. il diag Cassier's Ind Management 11:19-21 Ja 10 '24
Traveling carrier for rivet squeezer. il Elec Ry J 64:563 O 4 '24

Manufacture

British wire-drawing and wire-working machinery. il diags Engineer 138:577-8 N 21 '24
Coupler yoke rivet shearing machine. E. A. Murray. il diags Ry Mech Eng 98:674-5 N '24
Heat treating low-carbon bars for rivets. C. B. Langstroth. il Iron Age 113:849-50 Mr 20 '24
Rivet cutting with an electric arc. il diag Ry R 74:290-2 F 16 '24

ROAD accidents
Accidents on Tennessee highways. Eng & Contr (R & S) 62:1037 N 5 '24
Effect of drainage on public safety. G: A. McCubbin. il Can Eng 46:369-71 Mr 25 '24
Highway traffic accidents. N. M. Isabella. Eng & Contr (R & S) 61:291-5 F 6 '24; Same. Good Roads 66:79-81 Mr '24; Same cond. Can Eng 47:193-4 Jl 29 '24
Traffic accidents on British highways. Eng & Contr (R & S) 60:994 N 7 '23

See also Automobile accidents; Street accidents

ROAD drags
Maintenance of gravel roads by the use of the split log drag. diags Can Eng 45:609-10 D 25 '23

ROAD making machinery
Construction equipment—past and present; the road grader. Eng N 93:80-2, 120-2 Jl 10-17 '24
Evolution of road construction and maintenance equipment. O. L. Kipp. Eng & Contr (R & S) 63:229-40 F 4 '25; Same. Munic & Co Eng 68:55-65 F '25; Same. Can Eng 49:109-15 Jl 7 '25; Same abr. Eng N 94:211-13, 252-3 Ja 29-F 5 '25
Making concrete road finishers and subgraders do their best work. L. Gardiner. il Eng N 91:949-51 D 6 '23
Mechanical joint installer. il Eng & Contr (R & S) 63:491-2 Mr 4 '25
Modern machinery and equipment for making better rural roads. T. W. Charles. il Dun's Int R 46:50-4 O '25
New and improved formgrader. il Eng & Contr (R & S) 62:535 S 3 '24
Portable tar-macadam drying and mixing plant. il diags Engineering 116:620-1 N 16 '23
Sales opportunities in the billion dollar road building field. il Sales Management 9:423-4+ O 3 '25
Solving the earth moving problem on road construction. Munic & Co Eng 67:105-6 Ag '24
Tar macadam plant with scroll drier and cube mixer. il diags plan Engineering 117: 700-2 My 30 '24
Up-keep of road maintenance equipment; an interview with W. A. Van Duzer. C. S. Hill. il Eng N 94:10-14 Ja 1 '25
Wagon and the elevating grader. J. L. Harrison. il diags Pub Roads 6:25-33+, 59-68, 73-80 Ap-Je '25; Same cond. Eng & Contr (G C) 64:158-66, 399-407 Jl 15, Ag 19 '25; Abstract. Pub Works 56:163-7 My '25

See also Paving mixers; Road drags; Road rollers; Road scrapers

Exhibitions

Equipment models for exhibit. il Eng & Contr (R & S) 64:1022-3 N 4 '25
Good roads show, Chicago, Jan. 14-19. il Eng N 92:173-6 Ja 24 '24
Improved equipment at Good roads show, Chicago, Jan. 5-9. Eng N 94:132-4, 171-5 Ja 15-22 '25; Can Eng 48:153-4 Ja 20 '25; Eng & Contr (R & S) 63:65-74 Ja 7 '25
Machines at work in open-air road show, Greensboro, N.C., June 3-7. il Eng N 92: 1118-19 Je 26 '24
Public works, roads and transport exhibition. il diags Engineering 116:644-8, 654, 671-7, 684 N 23-30 '23; Engineer 136:584-6, 623-5, 640-2, 644 N 30-D 14 '23

ROAD maps
Printing weekly highway service maps showing detours. H. J. Kuelling. il diags Eng N 92:82-3 Ja 10 '24

ROAD materials
Apparatus for determining the specific gravity of aggregates. F. H. Tucker. il diags Ind & Eng Chem 17:517-20 My '25
Bituminous sands and their use for road-surfacing material. S. C. Ells. il Nat Pet N 16:75+ Ap 23 '24; Same cond. Inst Pet Tech J 10:714-17 S '24
Conditions which have prompted consideration of state purchase and manufacture of road building materials. B. H. Piepmeier. Good Roads 56:44-6 F '24
Consistency as applied to road materials. A. N. Johnson. Am Soc T M Pro 23 pt 2:456-7 '23
Highway research report on character and use of road material. Munic & Co Eng 68: 186-7 Ap '25
Local materials in road construction. E. W. James. Eng & Contr (R & S) 64:550-2 S 2 '25
Report of committee number 3, on character and use of road materials. Nat Research Council Bul v 8, pt 1:97-105 Mr '24
Road materials of Kentucky. C: H: Richardson. 209p [bibliog. p. 197-200] Kentucky geological survey, Frankfort, Ky. '24

See also Asphalt; Coal tar; Concrete; Gravel; Road oils; Stone, Crushed; Tar

Standards

Simplified practice—a service to road builders. R. M. Hudson. Eng N 92:113 Ja 17 '24

Testing

Crushed-stone tests and their relation to the service of the finished pavement. A. T. Goldbeck. Pub Roads 5:15-18 F '25

ROAD materials—Testing—*Continued*
Observations on the operation of material testing laboratories. F. H. Jackson and C. E. Proudley. Pub Roads 5:14-17 Je '24; Abstract. Concrete 25:73 Ag '24
Report of committee D-4 on road and paving materials. Am Soc T M Pro 24 pt 1:571-8 '24
Sampling and testing of highway materials. W: H. Barton, jr. and L: H. Doane. 355p McGraw-Hill '25
Tentative standard methods of sampling and testing highway materials. diags U S Agric Bul 1216:1-96, pl 1 '24
Testing materials for Rhode Island roads. Pub Works 56:175 My '25
Work of the testing bureau of the Illinois highway department. H. F. Clemmer. Munic & Co Eng 68:135-8 Mr '25

See also Bituminous materials—Testing

ROAD oiling
Graphical control of application of oils and asphalt. M. D. Knight. Eng N 95:307 Ag 20 '25
Jobber designs novel heating device to unload road oil quickly. W. K. Halbert. il Nat Pet N 16:109+ Ap 2 '24
Oiled earth roads on Long Island. A. T. Goldbeck. il Pub Roads 5:21-2 S '24
Oiling of earth roads. W. M. Wilson. Ill U Eng Exp Sta Circ 11:1-27 '24; Excerpts. Eng N 93:220 Ag 7 '24; Eng & Contr (R & S) 62:328 Ag 6 '24; Munic & Co Eng 67: 122-3 S '24
Points to consider in the successful application of road oil. F. W. Padgett. Nat Pet N 16:87+ Mr 19 '24

See also Roads—Surface treatment; Roads, Oiled

Cost

Cost of heating and spreading road oil at Los Angeles. Eng & Contr (R & S) 60:1168 D 5 '23
Cost of oiling gravel roads in Cuddho Parish, Louisiana. J. T. Bullen. Eng N 95:761 N 5 '25
Cost of road oiling at St Paul, Minn. G: H. Herrold. Eng & Contr (R & S) 62:734 O 1 '24
Methods and cost of oiling macadam, Rockford, Ill. C. B. Harvey. Eng N 95:760 N 5 '25

ROAD oils
Quality of oil for surface oiling of earth roads and streets. F. L. Sperry. il Good Roads 68: 207-10+ S '25
Use of petroleum and its products for road construction. J. E. Pennybacker. Am Pet Inst Bul 4:66-73 D 31 '23
Water in road asphalts. J. B. Rathbun. Pet Age 16:56 O 15 '25

See also Asphalt

Testing

Methods of testing road oils. H. F. Clemmer. Can Eng 46:274 F 26 '24
Use of air bath in determination of solid residue of road oils at 100 penetration. H. F. Clemmer and H. C. Helmle. il Am Soc T M Pro 23 pt 2:351-4; Discussion. 355 '23

ROAD resistance
Friction tests of concrete on various subbases. A. T. Goldbeck. Pub Roads 5:19-20+ Jl '24; Same. Eng & Contr (R & S) 62: 321-4 Ag 6 '24; Same. Good Roads 67:79-81 S '24

See also Automobile resistance

ROAD rollers
New light weight 3-wheel roller. il Eng & Contr (Equip R) 63:906 Ap 29 '25
10-ton single-cylinder road roller. il Engineer 138:466, 477 O 24 '24
Universal steam road roller. il diag Engineering 120:200, 208-9 Ag 14 '25

ROAD scrapers
Cost of grading with fresnoes. J. L. Harrison. Pub Roads 5:10-15+ O '24; Same. Eng & Contr (R & S) 62:1213-20 D 3 '24; Excerpts. Eng N 94:228-9 F 5 '25
Economical use of wheel scrapers. J. L. Harrison. Pub Roads 5:16-23 D '24; Same. Eng & Contr (G C) 63:809-18 Ap 17 '25
Miami-Fordson one-man scraper. il Eng & Contr (Equip R) 61:225-6 Ja 30 '24
Stockland perfects new grader for truck patrol use. il Good Roads 68:166 Jl '25; Eng & Contr (Equip R) 63:916-17 Ap 29 '25

ROAD signs
Advertising traffic safety. T: Cusack. il Nat Safety N 9:33-4 My '24
Interstate highways to be numbered uniformly. Eng N 95:280+ Ag 13 '25
Large uses of steel in small ways; highway markers. il Iron Tr R 77:432 Ag 20 '25
Marking Ohio highways. Eng & Contr (R & S) 63:1241 Je 3 '25
Marks and signs on highways. G: Hogarth. Can Eng 46:344 Mr 18 '24
North Dakota adopts standard highway signs. C: G. Burke. il Good Roads 68:14 Ja '25
Permanent markers on interstate trunk highway. R. M. Morton. Eng & Contr (R & S) 64:22 Jl 1 '25
Quebec official danger signs. il Can Eng 47: 634 D 23 '24
Report of committee on maintenance; guide, caution and danger signs. Can Eng 48:548-9 Je 2 '25
Routing Ohio motor traffic through cities. Eng & Contr (R & S) 62:1020 N 5 '24
Saskatchewan provincial highway danger signs. il Can Eng 48:276 Mr 3 '25
Shape of Ohio signs warns of type of danger ahead. Eng & Contr (R & S) 62:757 O 1 '24
Sign painting with silk stencils, Ohio road department. H. B. Neal. il Eng N 94:608-10 Ap 9 '25
Signs and railroad crossings. J. J. Griffith. Eng & Contr (R & S) 63:1233-4 Je 3 '25
Standard detour marking system on Ohio state roads. G. J. Schlesinger. il Eng N 92:970-1 Je 5 '24
Standard highway signs; uniform method adopted by Indiana, Michigan, Minnesota and Wisconsin. A. H. Hinkle. il Good Roads 66:95-7+ Ap '24
Traffic control and safety. E. W. James. il diags map plan Pub Roads 5:1-9+ Ag '24; Excerpts. Good Roads 67:73-4+ S '24; Abstract. Automotive Ind 51:492-4 S 11 '24
Uniform highway danger signals. il Can Eng 46:415 Ap 8 '24
Uniform highway marking. Eng & Contr (R & S) 63:1231-2 Je 3 '25
Uniform road signs adopted. Pub Roads 6: 126 Ag '25; Good Roads 68:253-4 O '25
Wisconsin's new 10,000 mile state trunk highway system. J. T. Donaghey. il Munic Eng 67:116-20 Mr '24

See also Trail associations

ROAD traffic
La circulation automobile et le problème actuel de la route en France. J. Fedi. Génie Civil 86:262-5 Mr 14 '25
Connecticut highway transportation survey. J. G. McKay. il maps Pub Roads 5:1-18 Mr '24; Same. Good Roads 66:125-9, 161-4+ My-Je '24; Excerpt. Eng & Contr (R & S) 61: 749-50 Ap 2 '24; Abstract. Pub Works 55: 105-8 Ap '24
Development of highway traffic in California. L. I. Hewes. Am Soc C E Pro 51:377-91 Mr '25; Same cond. Pub Roads 5:10-15 D '24; Discussion. Am Soc C E Pro 51:684-95 Ap '25
Device to measure traffic. Bus Transportation 3:77 F '24
Effect of automobile travel. C. M. Burt. Ry Age 77:643-4 O 11 '24
Elements governing the development of highway traffic. A. N. Johnson. diags Am Soc C E Pro 51:748-56 My '25; Same. Eng & Contr (R & S) 62:1216-22 Je 3 '25; Discussion. Am Soc C E Pro 51:1155-6 Ag '25
Four-way intersections of highway pavements. G. N. Lamb. diag Eng & Contr (R & S) 61:495-6 Mr 5 '24
Highway requirements indicated by traffic growth; plea for motorways. Eng N 93: 269 Ag 14 '24

ROAD traffic—*Continued*
Highway research board report on highway traffic analysis. Munic & Co Eng 67:310-16 D '24
Highway service and justifiable expenditures. N. W. Dougherty. Eng & Contr (R & S) 61:514-17 Mr 5 '24
Highway traffic analysis. G. E. Hamlin. Eng N 91:885-6 N 29 '23
Highway traffic problem in New York city and its environs. E. P. Goodrich and H. M. Lewis. Good Roads 67:6-9, 46-8 Jl-Ag '24
Highway traffic surveys; digest of committee report presented to meeting of Advisory board of highway research. Eng & Contr (R & S) 60:1212 D 5 '23
Limit of traffic on twenty-foot road. V. A. Harris. Pub Works 56:356 O '25
Maine highway transportation survey; a preliminary report. J. G. McKay and O. M. Elvehjem. maps Pub Roads 6:45-58+ My '25; Excerpt. Eng & Contr (R & S) 64:773-81 O 7 '25
Methods and costs of making traffic surveys. G: E. Hamlin. Munic Eng 66:65-9 F '24; Same. Eng & Contr (R & S) 61:535-40 Mr 5 '24; Excerpt. Eng N 92:112 Ja 17 '24
National highway traffic association annual meeting, New York, Dec. 2. Automotive Ind 51:1012-13 D 11 '24
Pennsylvania highway transport survey. Pub Roads 5:10-11 Je '24; Same. Munic & Co Eng 67:41-3 Jl '24; Same. Eng N 93:98-9 Jl 17 '24; Same. Eng & Contr (R & S) 62:37-8 Jl 2 '24
Preliminary road traffic counts in Pennsylvania survey. W. A. Van Duzer. Eng N 93:998 D 18 '24
Regulation of motor traffic on highways. J: N. Mackall. Manuf Rec 88:75-6 O 15 '25
Report of committee number 4, on highway traffic analysis. Nat Research Council Bul v 8, pt 1:131-8 Mr '24
Results of traffic surveys. J. G. McKay. Eng & Contr (R & S) 62:26-30 Jl 2 '24; Same cond., with diags and maps. Eng N 92:526-30 Mr 27 '24; Discussion. J. E. Pennybacker. 92:821-2 My 8 '24
Road construction should permit higher average traffic speed. H. Chase. Automotive Ind 50:764-6 Ap 3 '24
Roadway widths as related to traffic. L. R. Ash. Munic Eng 65:201-3 N '23
Six years of traffic counts on Maryland roads. Eng N 92:279 F 14 '24
To decrease traffic hazards. Eng & Contr (R & S) 62:771-2 O 1 '24
Tourist traffic and Canadian roads. J. B. Harkin. Can Eng 47:321-2 S 9 '24; Same cond. Eng & Contr (R & S) 62:756-7 O 1 '24
Traffic congestion and relief. W. G. Sloan. Soc Auto Eng J 14:373-4; Discussion. 374-5 Ap '24
Traffic jam. C: E. Fowler. Eng & Contr (R & S) 61:58-60 Ja 2 '24
Transverse distribution of motor vehicle traffic on paved highways. J. T. Pauls. il diags Pub Roads 6:1-13 Mr '25
What the Cook county highway traffic survey covers. Eng N 93:27 Jl 3 '24

See also Automobiles and roads; Bridge traffic; Highway engineering; Highway law; Highway transportation; Motor trucks and roads; Roads—Width; Street traffic; Traffic regulations; Traffic signals

ROADMASTERS. See Railroads—Roadmasters

ROADMASTERS' and maintenance of way association
Annual convention, 42d, New York, Sept. 16-18. Ry Age 77:494-504 S 20 '24; Ry R 75: 443-5 S 20 '24
Annual convention, 43d, Kansas City, Sept. 22-25. Ry Age 79:567-77 S 26 '25; Ry R 77: 490-2 S 26 '25

ROADS
Annual conference, 10th, on road construction for county road superintendents and engineers, Toronto, Feb. 25. Can Eng 46:309-11 Mr 4 '24
Annual conference, 11th, on road construction for county road superintendents and engineers, Toronto, Feb. 23. Can Eng 48:273-4 Mr 3 '25
Bombement à donner aux revêtements dits modernes des chaussées. L. Moissenet. Génie Civil 83:541-3 D 1 '23
Construction of roads and pavements. T. R. Agg. 3d ed. 499p McGraw-Hill '24
Economic importance of good roads. A. J. Barnett. il Am Exporter 95:9-17+ Jl '24
Economics as applied to engineering projects. C. A. Morse. Munic & Co Eng 68:108-10, 122-3 F-Mr '25
Fundamentals of construction and maintenance of secondary type highways. C: C. Albright. 36p Purdue university, Lafayette, Ind. '22
Half a century of road development. C. S. Hill. Eng N 92:685-6 Ap 17 '24
Hazards and safeguards of highway structure; report of National conference on street and highway safety. Eng N 94:15-20 Ja 1 '25; Abstract. Génie Civil 86:441-2 My 2 '25
Highway improvement a continuing business. T: H. MacDonald. Munic Eng 66:90-3 F '24
Highways: their use and abuse. Can Eng 46: 429 Ap 15 '24
Legal aspects of trunk roads through cities and villages. S: K. Markman. Good Roads 68:64, 86-7 F-Mr '25
Ontario good roads association 23d annual convention, Toronto. Can Eng 48:270-2 Mr 3 '25
Planning the eventual road. H. J. Fixmer. diags Munic Eng 66:3-4 Ja '24
Régles pour l'établissement des routes nationales; les largeurs et les bombements préconisés. L. Moissenet. Génie Civil 86:57-60 Ja 17 '25
Researches on the structural design of highways by the United States Bureau of public roads. A. T. Goldbeck. il chart diags Am Soc C E Pro 50:453-89 Ap '24; Discussion. 50:728, 895-7, 1511-12 My, Ag, N '24
The road. H. Belloc. 218p Harper
Road construction should permit higher average traffic speed. H. Chase. Automotive Ind 50:764-6 Ap 3 '24
Road engineering. E. L. Leeming. 279p [bibliog. p. 272-4] Constable & co., ltd., London '24
Roads from clover and sawdust. Sci Am 130: 114 F '24
Rural highway pavements. W. G. Harger. 613p McGraw-Hill '24
Streets, roads and pavements. H: G. Whyatt. 140p Pitman '23
Structural design of highways. Pub Works 55:33 Ja '24
Structural design of highways. A. T. Goldbeck. Eng N 93:958-9 D 11 '24
Suggested improvements in construction procedure to reduce road maintenance costs. H. S. Perry. Munic Eng 66:7-9 Ja '24

See also Automobiles and roads; Causeways; Curbs; Driveways; Highway administration; Highway engineering; Highway law; Highway research; Motor trucks and roads; Mountain roads; Pavements; Road making machinery; Road materials; Road rollers; Road scrapers; Road traffic; Roadside planting; Sidewalks; Snow removal; Street cleaning; Street railroads; Streets; *also* Bronx river parkway; Jamaica Bay boulevard; Lincoln highway

Bypass roads
Bypass road problems important one in Ohio. G. F. Schlesinger. map Eng N 94:200 Ja 29 '25
Bypass roads official policy in Missouri. C. W. Brown. maps Eng N 94:8-9 Ja 1 '25
Bypass roads should not be hurriedly adopted. J. T. Donaghey. Eng N 94:319 F 19 '25
Diverting through traffic around cities. Eng & Contr (R & S) 63:228 F 4 '25

ROADS—*Continued*

Congresses

5th international road congress to meet in Milan, Italy, Sept. 6-13, 1926. Eng & Contr (R & S) 63:1226 Je 3 '25

Scottish road conference, Edinburgh, Jan. 15-16. Engineer 137:78 Ja 18 '24; Engineering 117:83-4 Ja 18 '24

Construction schedules

Some records of time distribution in road building. A. A. Mahon; C. Tappan. Eng N 95:555-6 O 1 '25

Contracts

California court denies state can cancel road contract. P. F. Fratessa. Eng N 91:965 D 13 '23

Contingency factors in road contracts. N. F. Helmers. Eng & Contr (R & S) 62:742 O 1 '24

Element of risk in contracting. T: Davlin. Eng & Contr (R & S) 63:1008-9 My 6 '25

Highway contracting and its illusions. T. J. Wasser. Munic Eng 66:63-5 F '24; Same. Good Roads 66:65-6 Mr '24; Same cond. Pub Works 55:149-50 My '24

Irresponsible bidder. Eng & Contr (R & S) 63:712-14 Ap 1 '25

Kentucky road contracts declared invalid. Eng N 92:912 My 22 '24

Mutual dependence in construction. S. M. Williams. Eng & Contr (R & S) 63:1003-5 My 6 '25

Profit and loss in road contracting. C. H. Purcell. Eng & Contr (R & S) 63:1197-9 Je 3 '25

Specifications for a responsible bidder. G: H. Jennings. Munic & Co Eng 68:90-3 F '25; Excerpts. Eng & Contr (R & S) 64:293-6 Ag 5 '25

Uniform contracts a public service. R. C. Marshall, jr. Good Roads 66:70-2 Mr '24; Same. Munic & Co Eng 66:292-6 Je '24

Convict labor

Cost of convict road work. E. M. Wheeler. Pub Works 55:196 Je '24

Prison labor road construction. Eng & Contr (R & S) 62:769-70 O 1 '24

Cost

Cost of modern roads. J. T. Madison. Good Roads 65:205-6 D 19 '23

Cost of roads per mile is misleading. L. A. Boulay. Munic & Co Eng 67:321-2 D '24

Day labor vs. contract in Walla Walla county, Washington. R. G. Dieck. Eng & Contr (R & S) 62:272-7 Ag 6 '24

Distribution of engineering costs in Kentucky road work. Eng & Contr (R & S) 62:43-5 Jl 2 '24

Economics of highway engineering. H. T. Tudsbery. Engineering 120:339-40 S 11 '25

Effect of haul on the cost of earthwork. J. L. Harrison. Pub Roads 5:14-17 S '24; Same. Eng & Contr (R & S) 62:1003-8 N 5 '24; Same. Good Roads 67:137-9+ N '24; Excerpts. Eng N 93:832-3 N 20 '24

Engineering costs in highway work. J. E. Maloney. Eng & Contr (R & S) 61:545 Mr 5 '24

Factors affecting construction efficiency and influence of specification interpretation on costs. T. J. Wasser. Munic & Co Eng 68: 154-60 Mr '25

Federal road job failures. T: H. MacDonald. Eng & Contr (R & S) 63:1002 My 6 '25

Highway contract prices too low. R. B. Oliver. Munic & Co Eng 69:188-9 O '25

Highway grading bids. Pub Works 55:377-8 D '24

Low type forest service road from Tusas to Tres Piedras, New Mexico. C. A. Long. il Eng & Contr (R & S) 64:547-9 S 2 '25

Sand-asphalt pavement construction. E. R. Olbrich. il Eng & Contr (R & S) 61:335-6 F 6 '24; Same. Munic & Co Eng 67:138-43 S '24; Same cond. Eng N 92:114-15 Ja 17 '24; Discussion. G: G. Warren. Eng N 92:628 Ap 10 '24

Theory and calculation of highway transportation cost. T. R. Agg. Eng N 92:54-8 Ja 10 '24; Discussion. G. F. Schlesinger. 92:336 F 21 '24

Unit prices of New Mexico road work. Eng & Contr (R & S) 63:992 My 6 '25

Wagon and the elevating grader. J. L. Harrison. il diags Pub Roads 6:25-33+, 59-68 Ap-My '25; Same cond (pt 1). Eng & Contr (G C) 64:158-66 Jl 15 '25; Abstract. Pub Works 56:163-7 My '25

See also Excavation—Cost; Roads—Estimates; Roads—Maintenance and repair; Roads, Concrete—Cost

Cost of maintenance

See Roads—Maintenance and repair

Curves

Daylighting curves. diags Eng & Contr (R & S) 64:57-8 Jl 1 '25

Designing banked highway curves for safety. C. J. Myers. il diags Eng N 95:303-4 Ag 20 '25; Discussion. 95:559, 728, 1084-5; 96:34 O 1, 29, D 31 '25-Ja 7 '26

Right of way calculations. Eng & Contr (R & S) 63:1010 My 6 '25

Securing visibility over hills on public highways. H. A. Marshall. chart Eng N 93:800 N 13 '24

Spiral curves cut costs of North Carolina road work. C: M. Pritchett. Eng N 93:132-5 Jl 24 '24

Underpass shifted without interruption to rail or highway traffic. il Eng N 95:601 O 8 '25

Widening and spiraling highway curves. J. M. Brown and R. V. Newcomb. Eng & Contr (R & S) 61:1003-7, 1234-5 My 7, Je 4 '24

Widening curves on highways. G. A. Crayton. diag Eng & Contr (R & S) 60:1209-12 D 5 '23; Same cond. Eng N 91:894-5 N 29 '23

See also Curves

Drainage

Effect of drainage on public safety. G: A. McCubbin. il Can Eng 46:369-71 Mr 25 '24

Figures from 154 cities illustrating the relative number that use inlets without catch basins and with catch basins. Pub Works 54:395-6 D '23

Importance of adequate street drainage. H. H. Edwards. il Munic Eng 65:212-13 N '23

Removal of capillary moisture in highway subgrades. C: M. Upham and H. F. Janda. Eng N 93:912-13 D 4 '24

See also Soil moisture

Estimates

Factors frequently undervalued in estimating. H: H. Wilson. Eng & Contr (R & S) 61: 1000-1 My 7 '24

Taking some of the guess out of bidding. S. J. Clausen. Munic & Co Eng 68:163-6 Ap '25; Excerpt. Eng & Contr (R & S) 64:801-2 O 7 '25

Federal aid

Another good roads victory won. R. L. Cusick. il Automotive Ind 52:570-3 Mr 26 '25

Building a system of national roads through federal aid. T: H. MacDonald. Munic & Co Eng 68:48-53 Ja '25; Same. Eng & Contr (R & S) 63:257-62 F 4 '25

Federal aid denied day-labor road work in Arizona. T: H. MacDonald. Eng N 94: 812-13 My 14 '25; Abstract. Pub Works 56: 167 My '25

Federal aid for highways. Nat City Bank p 33-4 F '25

Federal-aid funds available. Eng N 92:377 F 28 '24

Federal aid in the United States. L. I. Hewes. Can Eng 47:419-21 O 14 '24

Federal aid road construction: extracts from report for year ended June 30, 1924. Eng & Contr (R & S) 62:17-18 Ja 7 '25

Federal aid to road construction under the Federal highway act. P. St G. Wilson. Econ W n s 27:54-5 Ja 12 '24

ROADS—Federal aid—*Continued*
Federal and state policies in the construction of the federal aid highway system. T: H. MacDonald. Eng & Contr (R & S) 61: 26-33 Ja 2 '24; Same. Munic & Co Eng 66: 171-8 Ap '24; Same cond. Manuf Rec 85:67-71 Ja 10 '24
Federal funds for national forest road construction. Eng & Contr (R & S) 62:770 O 1 '24
Federal highway aid process explained. Munic & Co Eng 69:155-7 S '25
Grade separation on federal-aid roads. Eng N 92:62 Ja 10 '24
Highway construction. H: C. Wallace. Manuf Rec 85:66 Ja 10 '24
Highway situation in the United States today. C: E. Townsend. Good Roads 65:149-50 N 7 '23
New road funds apportioned by Secretary of agriculture. Good Roads 66:176 Je '24
President Coolidge directs that federal aid in highway building in Arkansas be suspended. Comm & Fin Chr 117:2840-1 D 29 '23
$75,000,000 road bill is passed by Senate. Automotive Ind 52:288 F 12 '25
Situation in Arkansas respecting federal aid in highway building. Comm & Fin Chr 118: 159-60 Ja 12 '24
State highway progress in Indiana. Munic & Co Eng 69:67-70 Ag '25
Status of federal aid highway construction as of April 30, 1924. Pub Roads 5:28 My '24
Who pays Uncle Sam's highway bills? Automotive Ind 53:452-5 S 17 '25

Federal aid (Canada)

Extent of federal aid for highways. Can Eng 48:256 F 24 '25
Operations under Canada highways act. A. W. Campbell. Can Eng 47:119-20 Jl 1 '24
Success of Federal aid. A. W. Campbell. Can Eng 49:471-2; Discussion. R. R. Miller. 472+ O 20 '25

See also Roads—Prince Edward Island

Finance

Adequate and equitable highway financing. R. M. Hubbard. Munic Eng 65:281-2 D '23
Apportionment of motor vehicle fees, gasoline and county road taxes for use on city streets. D. C. Sowers. Munic & Co Eng 67: 3-7 Jl '24; Discussion. A. M. Wilson. 67:76-7 Ag '24
Are state highway programs on a sound financial basis. H: R. Trumbower. maps Good Roads 68:50-3 F '25; Same. Eng & Contr (R & S) 63:241-8 F 4 '25
Boards report on highway finance. Bus Transportation 4:199-200 Ap '25
Budget system for road construction. C. A. Robertson. il Can Eng 48:339-40 Mr 24 '25
Building a state highway system by bond issue in West Virginia. C. P. Fortney. Good Roads 68:15-16+ Ja '25; Same. Munic & Co Eng 67:271-5 D '24
California highway finances. Pub Works 56: 266 Jl '25
Earnings of improved highways far exceed their cost. T: H. MacDonald. Automotive Ind 49:1237-9 D 20 '23
Equitable taxation for highway purposes, and our transportation problems. S. L. Squire. Can Eng 49:419-23; Discussion. 423-7 S 29 '25
Experience with state aid roads in Illinois. A. B. Hurd. Munic & Co Eng 68:130-2 Mr '25
Farm benefits from better highways far outweigh their cost. A. J. Brosseau. Automotive Ind 50:178-9 Ja 24 '24
Federal and state policies in the construction of the federal aid highway system. T: H. MacDonald. Eng & Contr (R & S) 61:26-33 Ja 2 '24; Same. Munic & Co Eng 66:171-8 Ap '24; Same cond. Manuf Rec 85:67-71 Ja 10 '24
Financing Connecticut's highway system. C. G. Nichols. il Good Roads 67:110-11 O '24
Financing highway construction. T: H. MacDonald. Good Roads 68:10-11 Ja '25
Financing of highways. T. H. MacDonald. Ann Am Acad 116:160-8 N '24
Financing of roads. A. J. Brosseau. Munic & Co Eng 67:240-2 N '24
General economics underlying the highway. T: H. MacDonald. Munic & Co Eng 67:7-11 Jl '24
Georgia's state highways. il map Pub Works 55:7-10 Ja '24
Good roads in Connecticut. J: A. MacDonald. il Good Roads 67:105-7 O '24
Highway construction in California. Eng & Contr (R & S) 64:10 Jl 1 '25
Highway finance report of National tax association. Munic & Co Eng 68:211-16, 235-42 Ap-My '25
Highway financing in Wisconsin. Eng & Contr (R & S) 61:51 Ja 2 '24
Highway income from motor vehicle. H: R. Trumbower. Pub Roads 5:15-22 Ja '25
Highway service and justifiable expenditures. N. W. Dougherty. Eng & Contr (R & S) 61:514-17 Mr 5 '24
How shall our highways be financed? Highway transport committee report. Eng N 94:73-7 Ja 8 '25
Illinois proposes one hundred million road bond issue. F. F. Sheets. map Good Roads 56:11-13+ Ja '24
Incidence of the highway tax burden. H: R. Trumbower. Pub Roads 5:1-10 Je '24; Excerpts. Automotive Ind 50:1382-6 Je 26 '24
Kentucky bond issue defeated. Pub Works 55: 371-2 D '24
Motor revenues and highway needs in Pennsylvania. W: H. Connell. Munic & Co Eng 67:320-1 D '24
Motor vehicles finance Wisconsin highways. J. T. Donaghey. Eng N 94:695 Ap 23 '25
National grange report says more taxes should be paid by automobile users. Automotive Ind 51:1063 D 18 '24
Pay-as-you-go vs. debentures. W. E. Wiggins. Can Eng 49:153 Jl 21 '25
Pennsylvania highway finances. P. D. Wright. Pub Works 54:389 D '23
Problem of highway financing. S. L. Squire. Can Eng 46:394 Ap 1 '24
Problem of highway financing in America. A. R. Hirst. Munic Eng 65:217-24 N '23; Same. Eng & Contr (R & S) 60:1213-20 D 5 '23
Report of committee no. 6, on highway finance. Nat Research Council Bul v 8, pt 1: 111-24 Mr '24; Abstract. Eng & Contr (R & S) 60:1167 D 5 '23
Road bond issues in relation to total debt. H: R. Trumbower. Pub Roads 5:19-20 My '24; Same. Good Roads 66:165+ Je '24; Same abr. Eng & Contr (R & S) 61:1207-8 Je 4 '24; Same abr. Munic & Co Eng 66:284-5 Je '24; Same abr. Eng N 93:92 Jl 17 '24
Roads—motor and rail. G: W. Anderson. Aera 13:1678-89 My '25
Sources and expenditure of highway funds; abstracts. J. G. McKay. Eng N 91:884-5 N 29 '23; Automotive Ind 49:1011-13 N 15 '23
Sources of funds for highway purposes. H: R. Trumbower. Pub Works 55:367-71 D '24
State highway construction in Massachusetts in 1922. Eng & Contr (R & S) 60:1208 D 5 '23
Superlative importance of sound highway financing. Munic Eng 65:247-8 D '23
Tendency of recent legislation in regard to financing highway construction and maintenance. J. N. Mackall. Munic Eng 66:26-30 Ja '24; Same. Eng & Contr (R & S) 61: 523-6 Mr 5 '24; Excerpt. Eng N 91:983 D 13 '23
Users should pay full costs of highway facilities; report of special committee of National tax association. Aera 13:650-67 N '24
Volunteer road builders' wonderful work. N. Buckner. il Manuf Rec 85:79-81 Je 12 '24
What price highways? answer to this query gives basis for automotive taxes. N. G. Shidle. Automotive Ind 52:109-10 Ja 15 '25
Who pays for the highways? J: E. Walker. Munic & Co Eng 68:301-4 Je '25

See also Roads—Cost; Roads—Federal aid; Roads—Tolls

ROADS—*Continued*

Foundations

Building a motor road across the Florida Everglades. F. E. Lawrence and R. Y. Patterson. il plan map Eng N 93:412-17 S 11 '24

Experience with black base construction in Mercer county, N.J. H. F. Harris. Munic & Co Eng 66:260-3 Je '24; Same. Good Roads 67:12-14 Jl '24; Same. Can Eng 47: 221-3 Ag 5 '24; Same, with il. Eng & Contr (R & S) 62:39-42 Jl 2 '24

Standard specifications for broken slag for waterbound base and wearing course. Am Soc T M Standards 1923:91-2

Standard specifications for shovel-run or crusher-run broken slag for waterbound base. Am Soc T M Standards 1923:93-4

See also Roads—Subgrades

Grades

Easy method of calculating highway grade changes. W. E. Jones. Eng & Contr (R & S) 62:723-4 O 1 '24

Grading

Analyzing cost of grading. J. M. Kellogg. Eng & Contr (G C) 64:666-8 S 16 '25

Cost of grading with fresnoes. J. L. Harrison. Pub Roads 5:10-15+ O '24; Same. Eng & Contr (R & S) 62:1213-20 D 3 '24; Excerpts. Eng N 94:228-9 F 5 '25

Earth road grading. L. R. Tillotson. il Eng & Contr (R & S) 64:23-6 Jl 1 '25

Economical use of wheel scrapers. J. L. Harrison. Pub Roads 5:16-23 D '24; Same. Eng & Contr (G C) 63:809-18 Ap 17 '25

Effect of haul on the cost of earthwork. J. L. Harrison. Pub Roads 5:14-17 S '24; Same. Eng & Contr (R & S) 62:1003-8 N 5 '24; Same. Good Roads 67:137-9+ N '24; Excerpts. Eng N 93:832-3 N 20 '24

Grading of earth roads. H. A. La Rue. Mo U Eng Exp Sta Bul 34:1-24 '24

Highway grading bids. Pub Works 55:377-8 D '24

New Westford road grader. il Eng & Contr (Equip R) 64:730 S 30 '25

Road grader uses scarifier tooth of new design. il Eng N 95:612-13 O 8 '25

Road grading specifications. Eng N 94:547, 992 Ap 2, Je 11 '25

Scale for setting grade stakes. L. F. Walker. Eng N 95:276 Ag 13 '25

Simple balancing of quantities in highway grading. F. M. Garnett. diag Eng N 91:1009-10 D 20 '23

Small dump cars in highway work. il Eng & Contr (R & S) 62:767 O 1 '24

Wagon and the elevating grader. J. L. Harrison. il diags Pub Roads 6:25-33+, 59-68, 73-80 Ap-Je '25; Same cond. Eng & Contr (G C) 64:158-66, 399-401 Jl 15, Ag 19 '25; Abstract. Pub Works 56:163-7 My '25

Inspection

See Highway inspection

Law

See Highway law

Lighting

Advantages of highway lighting. F. M. Reast. il diag Elec J 22:543-4 N '25

Electric street lighting in rural areas. E: C. Lennox. Gas J (Lond) 172:38-40; Discussion. 40 O 7 '25; Abstract. Elec R (Lond) 97:596-8 O 9 '25

Extensive highway lighting installation in Pennsylvania. R. C. L. Greer. il diags Elec W 82:1223-4 D 15 '23

Highway illumination. Eng & Contr (R & S) 63:12 Ja 7 '25

Highway lighting. il diag Eng & Contr (R & S) 62:1041-2 N 5 '24

Highway lighting. W. S. Herrmann. il Pub Works 55:111-12 Ap '24

Highway lighting. R. K. Malcolmson. W Soc E J 30:295-7 Jl '25; Same. Munic & Co Eng 69:89-91 Ag '25

Highway lighting in New York. Eng & Contr (R & S) 62:758 O 1 '24

Highway lighting units. W. T. Dempsey. N E L A Bul 11:678-9 N '24

Illumination of highways from the motorist's point of view. E: H. Fryer. Illum Engr 17:128-9; Discussion. 129-30 Ag '24

Lighting highway curves effectively. il diag Elec W 83:729 Ap 12 '24

Lighting of streets and highways. S. C. Rogers. Eng & Contr (R & S) 60:1177-80 D 5 '23

Lighting the ideal road section of Lincoln highway. il Eng N 93:20 Jl 3 '24

Model state law for street and highway lighting. Munic & Co Eng 67:191-7 O '24

Modern highway lighting. A. L. Spring. il Elec W 85:661-2 Mr 28 '25

Projected light. H. T. Harrison. Gas J (Lond) 168:35-6 O 1 '24

Recent developments in highway lighting. J. T. Rood. Eng & Contr (R & S) 61:977 My 7 '24

Street lighting in its relation to highway safety. C. A. B. Halvorson, jr. and S. C. Rogers. il Safety Eng 47:283-9 Je '24; Same cond. Nat Safety N 10:35-6 S '24

See also Street lighting

Location

Developing road building through highway location. W. W. Crosby. Good Roads 68:239-40+ O '25

Factors affecting the location of a highway. B. H. Piepmeier. Munic & Co Eng 69:195-7 O '25

Highway location. W. W. Crosby. Ann Am Acad 116:132-40 N '24

How shortening highways saves money. W: H. Connell. Munic & Co Eng 67:322 D '24; Same. Eng & Contr (R & S) 63:24 Ja 7 '25

Locating department of North Carolina highway commission. il chart Eng & Contr (R & S) 62:325-8 Ag 6 '24

Modern road improvement practice sets high standards. L. E. Andrews. il diags Eng N 95:48-51 Jl 9 '25

Relocating a road with speed a principal consideration. R. E. Reed. Eng N 94:905 My 28 '25

You have to move dirt to build a road. Eng & Contr (R & S) 62:35-6 Jl 2 '24

Maintenance and repair

California state highway equipment department. il Pub Works 56:153-6 My '25

Cement gun maintenance unit. E. S. Borgquist. il Eng & Contr (R & S) 64:329-31 Ag 5 '25

Central plant highway maintenance—possibilities for large concentrated mileage. L. C. Smith. Munic Eng 66:51-3 F '24; Same. Eng & Contr (R & S) 61:726-8 Ap 2 '24; Same. Can Eng 47:319-20 S 9 '24

Central plant maintenance for highways. L. C. Smith. Can Eng 49:309-10 S 15 '25

Comparative cost of maintaining dirt, gravel and concrete roads. W. F. Rosenwald. Munic & Co Eng 67:90-2 Ag '24; Excerpts. Eng N 92:607 Ap 10 '24; Eng & Contr (R & S) 62:271 Ag 6 '24

Cost of highway maintenance in Wisconsin. J. T. Donaghey. Eng & Contr (R & S) 61: 729 Ap 2 '24

Cost of maintaining Rhode Island roads. Pub Works 56:207 Je '25

Cost of road maintenance in Utah and in South Carolina. Eng & Contr (R & S) 63: 669-70 Ap 1 '25

Cost of state highway maintenance in Nevada. Eng & Contr (R & S) 61:1022-3 My 7 '24; Same abr. Pub Works 55:80 Mr '24

Economical road surfacing in a sparsely populated semi-arid territory. J. L. Thayer. Eng & Contr (R & S) 61:503-9 Mr 5 '24

Establishing a cost-keeping system. J. L. Boulanger. Can Eng 47:113-15 Jl 1 '24; Same abr. Eng & Contr (R & S) 62:301, 313-14 Ag 6 '24

ROADS—Maintenance and repair—*Continued*
Evolution of road construction and maintenance equipment. O. L. Kipp. Eng & Contr (R & S) 63:236-40 F 4 '25; Same. Munic & Co Eng 68:55-65 F '25; Same. Can Eng 49: 113-15 Jl 7 '25; Same. Eng N 94:252-3 F 5 '25
Highway maintenance by team and truck patrols. W. C. Davidson. Eng & Contr (R & S) 62:743-6 O 1 '24
Highway maintenance costs in Michigan. Eng & Contr (R & S) 63:1005 My 6 '25
Highway maintenance in South Carolina. A. T. Brown. Pub Works 56:221-2 Je '25
Highway reconstruction with state owned outfit. H. J. Friedman. il Eng & Contr (R & S) 63:13-16 Ja 7 '25
Highway research board report on highway maintenance. Munic & Co Eng 68:37-45 Ja '25; Same. Can Eng 48:547-50 Je 2 '25
How Maryland maintains its roads. J: N. Mackall. il Manuf Rec 87:96-7 Ja 1 '25
How to maintain roads. 78p Dow chemical co., Midland, Mich. '24
Intensive highway maintenance in North Carolina. W. E. Hawkins. Eng & Contr (R & S) 60:973-5 N 7 '23
Iowa road maintenance costs. Eng N 94:119 Ja 15 '25; Eng & Contr (R & S) 63:4 Ja 7 '25
Lining up a highway maintenance patrol personnel. H. J. Friedman. Eng N 94:1013-14 Je 18 '25
Little talk on maintenance. W. A. Van Duzer. Eng & Contr (R & S) 61:1258 Je 4 '24
Maintenance and repair of Connecticut highways. map Good Roads 67:109-10 O '24
Maintenance of county highways; tabulation. Pub Works 56:184-91 My '25
Maintenance of New York state highways. Pub Works 55:255-6 Ag '24
Maintenance with heavy equipment. Eng & Contr (R & S) 63:16 Ja 7 '25
Manitoba provincial highway maintenance. A. W. McGillivray. Can Eng 49:461-3; Discussion. M. H. Necker. 463-4 O 13 '25
Method of repairing highway pavement breaks. A. W. Brandt. Eng & Contr (R & S) 61:761-2 Ap 2 '24; Same. Can Eng 47:340 S 16 '24
Necessity of adequate maintenance. H. A. Lumsden. Can Eng 48:317-18 Mr 17 '25
Notes on highway maintenance; digest of committee report presented to Advisory board of highway research. Eng & Contr (R & S) 60:1221 D 5 '23
Progress of road construction in Quebec. J. L. Boulanger. il map Can Eng 48:225-30 F 17 '25
Recent developments in highway maintenance. A. H. Hinkle. Eng & Contr (R & S) 61:541-3 Mr 5 '24
Recording road maintenance costs by Gantt charts. H. J. Friedman. Eng N 91:878-80 N 29 '23
Report of committee number 7, on maintenance, Nat Research Council Bul v 8, pt 1: 143-9; Discussion. 149-54 Mr '24
Road maintenance and traffic. Pub Works 56: 90 Mr '25
Road maintenance in Michigan. G. C. Dillman. Eng & Contr (R & S) 64:27-32 Jl 1 '25
Road service in industrial regions. G: E. Hamlin. il Eng & Contr (R & S) 60:1181-6 D 5 '23; Same, without il. Good Roads 65: 193-5 D 5 '23
Sheds store aggregate for road patches. H. S. Perry. il plans Eng N 93:152-3 Jl 24 '24
Some Indiana highway maintenance methods. A. H. Hinkle. Munic & Co Eng 67:261-3 N '24
Some recommendations on highway maintenance procedure. Munic Eng 66:39-40 Ja '24
State highway officials report on maintenance. Munic & Co Eng 67:305-8 D '24
State wide road maintenance. F. T. Sheets. il Eng & Contr (R & S) 63:471-80 Mr 4 '25; Same. Good Roads 68:143-8 Jl '25
Traffic density and maintenance costs in Maine. Eng & Contr (R & S) 63:701-2 Ap 1 '25
Up-build or up-keep. A. Brett. Concrete 27:2 Jl '25
Up-keep of road maintenance equipment; an interview with W. A. Van Duzer. C. S. Hill. il Eng N 94:10-14 Ja 1 '25

See also Dust prevention; Roads—Surface treatment; Roads, Concrete—Maintenance and repair; Roads, Earth—Maintenance and repair; Roads, Gravel—Maintenance and repair; Roads, Macadamized—Maintenance and repair

Records

Record keeping on highway building. F. E. Harley. Eng N 94:286 F 12 '25

Resurfacing

Bituminous paving mixtures for resurfacing old macadam roads. D. M. Hepburn. Can Eng 49:363-5; Discussion. J. A. Lalonde. 365 S 29 '25
Resurfacing old brick or concrete road with the new concrete slab. Eng & Contr (R & S) 63:452 Mr 4 '25
Resurfacing old brick road with asphaltic mix. il Eng & Contr (R & S) 63:453-4 Mr 4 '25
Resurfacing old highways. W. E. Grayson. Can Eng 48:234 F 17 '25; Same abr. Eng & Contr (R & S) 62:1205-6 D 3 '24
Resurfacing old macadam roads with bituminous concrete made of a standard hot mix, emulsified asphalt or rock asphalt. il Eng & Contr (R & S) 63:450-1 Mr 4 '25
Resurfacing old roads and streets with Kyrock. il Munic & Co Eng 67:303-5 D '24
Saving old stone roads by resurfacing. H. F. Harris. Can Eng 48:345-6 Mr 24 '25
Utilizing the salvage value of old road surfaces. A. H. Hinkle. Munic & Co Eng 68:22-32 Ja '25; Excerpts. Eng & Contr (R & S) 63:447-9, 709-11 Mr 4, Ap 1 '25

See also Roads—Surface treatment; Roads—Surfaces

Safety guards

Cable guide rail. plan Eng & Contr (R & S) 61:1264 Je 4 '24
Erecting wire link highway guard. il Eng & Contr (R & S) 64:289-92 Ag 5 '25; Pub Works 56:267-8 Jl '25; Eng N 95:520 S 24 '25; Good Roads 68:230 S '25
Highway safety guard. il Blast F & Steel Pl 12:107-8 F '24; Same. Eng & Contr (Equip R) 61:221 Ja 30 '24; Same. Iron Age 113: 284 Ja 24 '24
Life nets for highway guard rails. G. E. Wallis. il Safety Eng 50:65-8 Ag '25
Making concrete guard rail. il Concrete 25: 101 S '24
New concrete highway guard posts are cast in steel forms. il Eng & Contr (R & S) 61:1250-1 Je 4 '24
New type of guard rail for California highways. diags Eng & Contr (R & S) 61:1234 Je 4 '24
Reinforced fence guards for dangerous curves. il Nat Safety N 10:37 N '24
Safety highway fences. C: A. Mullen. diag Can Eng 47:264 Ag 19 '24; Discussion. D. M. Mawhinney. 47:296 S 2 '24
Sales opportunities in the billion dollar road building field. il Sales Management 9:423-4+ O 3 '25
Standard guard rail, Spokane county. W. L. Morgan. diags Eng & Contr (R & S) 62: 722 O 1 '24
Stone guard rail proves cheapest for Massachusetts highway. il Eng N 95:605 O 8 '25
Trough for dipping cable guard rail. R. A. Palmer. il Eng N 95:686 O 22 '25

Specifications

Changes in Wisconsin road specifications. Eng & Contr (R & S) 63:722 Ap 1 '25
Preparation of highway specifications. A. S. Macmillan. Can Eng 47:152-4 Jl 15 '24; Same. Eng & Contr (R & S) 62:512-16 S 3 '24
Specifications. B. H. Petty. Eng & Contr (R & S) 61:1252-3 Je 4 '24

ROADS—*Continued*

Statistics

Comparison of expenditures—1904-1923. Eng & Contr (R & S) 61:711-13 Ap 2 '24
Day labor, culverts and reinforcement. Pub Works 55:137-8, 266-8 Ap, Ag '24
Highway statistics for provinces. Can Eng 48:562 Je 9 '25
Motor vehicle and highway trends in 1924. Eng N 94:872 My 21 '25
Provincial road statistics. Can Eng 45:494-5 N 13 '23
State and county highway statistics. Pub Works 55:126-30+; 56:176-93 Ap '24, My '25
State highway construction in 1923 and 1924. Eng & Contr (R & S) 61:36-51 Ja 2 '24
State highway construction in 1924. Eng & Contr (R & S) 64:771-2 O 7 '25
State highway construction in 1924 and 1925. Eng & Contr (R & S) 63:25-37, 78-9 Ja 7 '25
Volume and trend of road work in last six years compared with 1913. Eng N 92:97-8 Ja 10 '24

Subgrades

A.S.T.M. proposed tentative field method for determining the moisture equivalent of subgrade soils. Good Roads 68:244 O '25
Clay soils in relation to road subgrades. H. H. Bennett. Pub Roads 6:180-1 O '25
Concrete pavement on unstable foundation. F. F. Mengel. Eng & Contr (R & S) 64:771 O 7 '25
Condition of the Ohio Post road after 10 years under traffic. F. H. Jackson. il Pub Roads 6:81-5+ Je '25; Same cond. Pub Works 56: 238-41 Jl '25
Construction of sub-grade foundation. C. D. Pollock. Can Eng 48:427-8 Ap 21 '25
Disk shear test for road soils. C. M. Strahan. Eng N 93:959 D 11 '24
Field methods used in subgrade surveys. A. C. Rose. Pub Roads 6:93-101 Jl '25
Method of insulating the subgrade of concrete roads. R. R. Dobelbower. diag Eng & Contr (R & S) 61:55-6 Ja 2 '24
Moisture equivalent of subgrade soils. Eng & Contr (R & S) 64:6 Jl 1 '25
Ohio and Pennsylvania test roads emphasize subgrade. Eng N 93:699 O 30 '24
Piles through old swamp roadbed carry concrete road. C. N. Conner. il diags Eng N 93:872-3 N 27 '24
Practical field tests for subgrade soils. A. C. Rose. il charts diag Pub Roads 5:10-15 Ag '24; Same cond. Eng & Contr (R & S) 62: 747-52 O 1 '24
Present status of subgrade studies. A. C. Rose. il chart diags plan Pub Roads 6:137-62 [bibliog. p. 161-2] S '25; Conclusions. Munic & Co Eng 69:210-13 O '25; Same. Pub Works 56:353-5 O '25; Same. Eng & Contr (R & S) 64:982-4 N 4 '25
Procedure for testing subgrade soils. J. R. Boyd. diag Pub Roads 6:34-9+ Ap '25; Same. Eng & Contr (R & S) 64:313-21 Ag 5 '25
Recent conclusions in highway research. A. T. Goldbeck. Pub Roads 5:9-10 Ja '25; Same. Concrete 26:91-2 Mr '25; Same. Eng & Contr (R & S) 63:457-60 Mr 4 '25
Reinforcing and the subgrade as factors in the design of concrete pavements; a study of experimental sections of the Columbia Pike. J. T. Pauls. Pub Roads 5:1-9 O '24; Abstracts. Concrete 26:40-1 Ja '25; Pub Works 55:343-4 N '24; Excerpt. Eng N 93: 743 N 6 '24
Relation of the subgrade to wearing surface of roads and pavements. W. P. Blair. Munic Eng 66:95-7 F '24
Removal of capillary moisture in highway subgrades. C: M. Upham and H. F. Janda. Eng N 93:912-13 D 4 '24
Results of improving the subgrade for pavement foundations. C. D. Pollock. Munic & Co Eng 67:163-5 O '24
Results of research on highway design; subgrade. Nat Research Council Bul v 8, pt 1: 66-81 Mr '24
Road and street subsoils in respect to pavement foundations and wearing surface layers. J. W. Howard. Munic Eng 66:11-12 Ja '24
Sieve limits for the mechanical analysis of subgrade soils. Pub Roads 5:22-3 O '24
Subgrade soil adulterations. Eng & Contr (R & S) 64:803-4 O 7 '25
Subgrade support a factor in pavement design. H. F. Clemmer. il Concrete 24:9 Ja '24
Supporting value of soil as influenced by the bearing area. A. T. Goldbeck and M. J. Bussard. Pub Roads 5:1-4+ Ja '25; Same. Eng & Contr (R & S) 63:680-5 Ap 1 '25
Supporting value of soils as influenced by the bearing area. A. T. Goldbeck. Am Soc C E Pro 51:893-6 My '25
Tar paper on loess subgrade lessens hair cracks in concrete pavement. R. W. Crum. il Pub Roads 6:127-8 Ag '25; Same. Eng & Contr (R & S) 64:791-2 O 7 '25
What highway investigations have shown. A. T. Goldbeck. Eng Soc W Pa 41:158-70 Je '25; Same cond. Concrete 27:28 Ag '25; Same cond. Good Roads 68:175-6 Ag '25; Same cond. Can Eng 49:575-7 N 24 '25; Discussion. Eng Soc W Pa 41:208-20 Je '25

See also Soil moisture

Superhighways

Changing the horse-and-buggy road to fit the automobile. S. D. Waldon. il charts diags maps plans Soc Auto Eng J 15:521-31 D '24
Detroit council given plan for super-highways. Eng N 94:332 F 19 '25
Fitting old roads to new traffic. E: N. Hines. Eng N 94:114 Ja 15 '25
Super-highway plan for greater Detroit. il Eng & Contr (R & S) 62:283-7 Ag 6 '24
Super-highway system proposed for Detroit. il diag map Eng N 92:1054-5 Je 19 '24
Super-highways of the 20th century. E: N. Hines. Good Roads 68:13+ Ja '25; Same. Munic & Co Eng 67:275-7 D '24; Same. Eng & Contr (R & S) 63:75-7 Ja 7 '25; Abstracts. Pub Works 55:392 D '24; Eng N 94:116-17 Ja 15 '25
System of 204-ft. super-highways contemplated in Detroit plan. S. D. Waldon. il Soc Auto Eng J 15:370-1 N '24

Surface treatment

Asphalt surfacing of old macadam and gravel in Ohio. H. S. Perry. Munic & Co Eng 67:166-8 O '24; Same. Can Eng 48:175-6 Ja 27 '25; Same abr. Good Roads 67:166-7+ D '24
Asphaltic oil surface treatments. J: R. Rablin. Can Eng 46:173 Ja 22 '24
Asphaltic surface treatments on shell roads. W. W. Crosby. Can Eng 46:174 Ja 22 '24
Bituminous surface treatments of Michigan gravel roads. F. L. Betts. Good Roads 68: 185-6 Ag '25
Bituminous treatment of gravel roads. A. D. Carpenter. Munic & Co Eng 68:229-33 My '25
Bituminous work on Indiana state highways. W. K. O'Neill. Munic & Co Eng 67:93-5 Ag '24; Same. Eng & Contr (R & S) 62:46-8 Jl 2 '24
Dust elimination on gravel roads. B. C. Tiney. Munic & Co Eng 68:32-5 Ja '25; Same. Can Eng 48:211-12 F 10 '25; Same. Eng & Contr (R & S) 63:249-53 F 4 '25; Same. Eng N 94:553-4 Ap 2 '25
Gravel road maintenance. J. T. Donaghey. Munic & Co Eng 68:75-82 F '25; Same. Eng & Contr (R & S) 64:11-18 Jl 1 '25; Same. Good Roads 68:157-61 Jl '25; Same. Can Eng 49:495-8 O 27 '25
Highway research board report on highway maintenance. Munic & Co Eng 68:37-45 Ja '25
Limitations of bituminous surface treatments and bituminous macadam pavements under modern traffic. I. W. Patterson. Munic & Co Eng 66:159-65 Ap '24; Same. Eng & Contr (R & S) 61:1008-13 My 7 '24; Same. Can Eng 46:621-5 Je 17 '24; Excerpt. Eng N 92:1100 Je 26 '24

ROADS—Surface treatment—*Continued*
Macadam type of road surface bound with aluminous cement. H. C. Badder. il Concrete 27:20-1 Jl '25
Machine maintenance of macadam, Monroe county, Mich. il Eng N 95:681-2 O 22 '25
New tar surface treatment for gravel roads. il Eng N 94:857, 1032 My 21, Je 18 '25; Same. Eng & Contr (R & S) 63:456 Mr 4 '25
Penetration and surface treated macadam roads. K. I. Sawyer. Eng & Contr (R & S) 60:1187-9 D 5 '23
Resurfacing Pennsylvania roads with bituminous wearing surface. W. A. Van Duzer. il Pub Works 55:115-16 Ap '24
Service tests of bituminous surface treatments on gravel roads in Washtenaw county, Michigan. A. R. Bailey. Good Roads 66:103-5 Ap '24
State highway officials report on maintenance. Munic & Co Eng 67:305-8 D '24
Surface treating shell road in Chatham county, Georgia. J. B. Elliott. il Eng & Contr (R & S) 62:33-4 Jl 2 '24; Same. Manuf Rec 86:113 Jl 3 '24
Use of rock asphalt in maintenance. J: S. Dawson. Eng & Contr (R & S) 61:1026 My 7 '24
Worn macadam and gravel as foundations. C: E. Murphy. il Eng & Contr (R & S) 63:49-53 Ja 7 '25

See also Road oiling; Roads—Resurfacing; Roads, Oiled; Roads, Tarred

Surfaces

Burnt shale as an economical road surfacing. O. L. Hemphill. Eng N 94:32-3 Ja 1 '25
Discussion of smoothness surveys. Eng N 92:75-6 Ja 10 '24
Economical road surfacing in a sparsely populated semi-arid territory. J. L. Thayer. Eng & Contr (R & S) 61:317-26 F 6 '24
New form of pavement surface; double track. H. W. D. Armstrong. diags Can Eng 48: 395 Ap 14 '25
Rapid hardening slag cement. P. Prevost. plan Concrete 26:172-4 My '25
Roughness as a factor in pavement life. A. T. Goldbeck. il Eng & Contr (R & S) 61: 306-16 F 6 '24; Same. Can Eng 46:275-8+ F 26 '24; Same. Munic & Co Eng 66:203-10 My '24
Smoothness requirements in New York. F: S. Greene. il Eng N 92:74 Ja 10 '24
Vialog operation and graphs. H. Dunbar. plan Eng N 92:74-5 Ja 10 '24

See also Roads—Resurfacing

Surveying

Costs and progress of highway detailed surveys and plans. M. W. Furr. Eng & Contr (R & S) 61:980 My 7 '24
Difficult surveys and deep cuts on new coast highway. il Eng N 93:185 Jl 31 '24
Reconnoissance for highways. Eng & Contr (R & S) 62:761-2 O 1 '24

Testing

Relation of road surface to automobile tire wear. H. V. Carpenter. Eng & Contr (R & S) 64:33-9 Jl 1 '25
Relation of road type to tire wear. W. C. McNown. il Nat Research Council Bul v 8, pt 1:43-53 Mr '24
Roughness as a factor in pavement life. A. T. Goldbeck. il Eng & Contr (R & S) 61: 306-16 F 6 '24; Same. Can Eng 46:275-8+ F 26 '24; Same. Munic & Co Eng 66:203-10 My '24
Tractive resistance and related characteristics of roadway surfaces. T: R. Agg. 62p Iowa state college of agric. and mechanic arts, Ames '24
Vialog operation and graphs. H. Dunbar. plan Eng N 92:74-5 Ja 10 '24

See also Roads, Concrete—Testing

Tolls

Automobile toll road from Milan to Italian lakes. F. A. Shepley. il map Eng N 93: 262-3 Ag 14 '24
Charges on old toll roads. Eng & Contr (R & S) 64:1012 N 4 '25
Special toll highways for motor vehicles; motorways proposed in Italy and Great Britain. H: Tréhard. Eng & Contr (R & S) 61:1024-5 My 7 '24

Trackways

Invisible track highway in Kentucky. J. T. Madison. diag Concrete 24:12 Ja '24
Invisible track type of highway; experimental section being constructed in Kentucky. diag Eng & Contr (R & S) 60:956-7; 61: 34-5 N 7 '23, Ja 2 '24
Railroad track highway. il Sci Am 131:25 Jl '24
Twin trails highway. il Sci Am 130:93 F '24

Traffic lines

Device for marking road center lines. A. C. Lagerwall. il Eng & Contr (R & S) 62:763 O 1 '24; Abstract. Eng N 93:273-4 Ag 14 '24
Home-made device paints white stripe on road center line. il Eng N 92:294 F 14 '24
Integral traffic line. Pub Works 55:190 Je '24
Machine builds traffic guide line into pavement. il Eng N 94:39 Ja 1 '25
Pavement center line marker. il Eng N 95: 192-3 Jl 30 '25
Traffic line constructed as part of pavement. diags Eng & Contr (R & S) 61:1029-30 My 7 '24
Traffic lines and road joints. Concrete 26: 181-2 My '25
White brick form permanent center line in Ohio county road. C. L. Sawyer. il Eng N 93:965 D 11 '24

Widening

Concrete shoulders widen highway and increase its visibility. F. A. Gardner. il Eng N 92:84 Ja 10 '24
Reconstructing Boston Post road thirty-six feet wide. il maps Eng N 95:218-21 Ag 6 '25
Widening a California state highway. A. W. McCurdy. Pub Works 56:85 Mr '25
Widening California highways. Pub Works 56:51 F '25
Widening concrete slab with asphaltic concrete. J. C. McLeod. il Eng & Contr (R & S) 63:703-5 Ap 1 '25; Same. Pub Works 56: 204-7 Je '25
Widening curves on highways. G. A. Crayton. diag Eng & Contr (R & S) 60:1209-12 D 5 '23

Width

Acquiring rights of way as an aid to highway development. W. W. Crosby. Good Roads 68: 184 Ag '25
Pennsylvania begins fixing ultimate right of way for state highways. W: H. Connell. Eng & Contr (R & S) 61:1248-9 Je 4 '24; Same. Munic & Co Eng 66:256-7 Je '24
Règles pour l'établissement des routes nationales; les largeurs et les bombements préconisés. L. Moissenet. Génie Civil 86:57-60 Ja 17 '25
Roadway widths as related to traffic. L. R. Ash. Munic & Co Eng 65:201-3 N '23
Transverse distribution of motor vehicle traffic on paved highways. J. T. Pauls. il diags Pub Roads 6:1-13 Mr '25

Width of pavement

Advantages of single track concrete roads. A. M. Jackson. Can Eng 46:304-5 Mr 4 '24; Same. Eng & Contr (R & S) 61:718-21 Ap 2 '24

See also Roads—Trackways

Alabama

Concrete highway construction in Alabama. P. A. Davis. il diag Pub Works 56:356-8 O '25

Alaska

Alaska road construction to be pushed. Eng N 95:359 Ag 27 '25

ROADS—*Continued*

Alberta

Road construction in Alberta. C. A. Davidson. Can Eng 48:248 F 24 '25

Arizona

Federal aid denied day-labor road work in Arizona. T: H. Macdonald. Eng N 94:812-13 My 14 '25; Abstract. Pub Works 56:167 My '25

Arkansas

Arkansas good roads increased by opening of Little Rock-Hot Springs highway. il Good Roads 68:216 S '25

Situation in Arkansas respecting federal aid in highway building. Comm & Fin Chr 118: 159-60 Ja 12 '24

Belgium

Le problème routier en Belgique. P. Van Deuren. Soc Ing Civils Bul 78:481-503 Jl '25; Abstract. Génie Civil 86:414-15 Ap 25 '25

British Columbia

Highway system of British Columbia. P. Philip. map Can Eng 46:269-72 F 26 '24

Land settlement area roads in B.C. P. Philip. Can Eng 47:233-4 Ag 12 '24

California

California highway notes. Pub Works 55:363-4 D '24

Development of highway traffic in California. L. I. Hewes. Am Soc C E Pro 51:377-91 Mr '25; Same cond. Pub Roads 5:10-15 D '24; Discussion. Am Soc C E Pro 51:684-95 Ap '25

Difficult surveys and deep cuts on new coast highway. il Eng N 93:185 Jl 31 '24

Highway requirements indicated by traffic growth; plea for motorways. Eng N 93:269 Ag 14 '24

Report of a study of the state highway system of California. 111p California highway advisory committee, Sacramento '25; Excerpts. Pub Works 56:326-9 S '25

Report submitted on roads of California. Eng N 94:334 F 19 '25

Two years of highway progress in California reviewed. Munic & Co Eng 68:7-10 Ja '25

Canada

Canadian road statistics. maps Can Eng 49: 369-410 S 29 '25

Developing Canadian highways. Can Eng 49: 504 O 27 '25

Expenditure on roads in Canada. Can Eng 49: 522 N 3 '25

Highway statistics for provinces. Can Eng 48:562 Je 9 '25

Interprovincial good roads conference, Toronto. Can Eng 47:561-2 D 2 '24

Operations under Canada highways act. A. W. Campbell. Can Eng 47:119-20 Jl 1 '24

Provincial road statistics. Can Eng 45:494-5 N 13 '23

Tourist traffic and Canadian roads. J. B. Harkin. Can Eng 47:321-2 S 9 '24; Same cond. Eng & Contr (R & S) 62:756-7 O 1 '24

China

Ancient and modern engineering in China. O. J. Todd. il Eng & Contr (Ry) 62:141-3 Jl 16 '24

Road building in China. J. C. Knight. Eng & Contr (R & S) 61:1226 Je 4 '24

Colorado

Colorado's highway work for 1924. Eng N 92: 121 Ja 17 '24

Mountain highway built on railway grade. il diag map Eng N 94:1016-17 Je 18 '25

Connecticut

Connecticut to spend $15,000,000 on road work. Eng & Contr (R & S) 60:985 N 7 '23

Good roads in Connecticut. J: A. MacDonald. il Good Roads 67:105-7 O '24

Highway construction in the state of Connecticut. E. C. Weldon. il maps Good Roads 67:108-9 O '24

Reconstructing Boston Post road thirty-six feet wide. il maps Eng N 95:218-21 Ag 6 '25

England

Developing arterial roads at London. E. J. Mehren. map Eng N 93:586-7 O 9 '24

Road improvements. maps Engineering 118: 571-2 O 24 '24

Roads in Devonshire. A. Warren. Engineer 139:104 Ja 23 '25

Florida

Brick roads of Florida. C. A. Hogentogler. il Pub Roads 5:18-28 Ap '24; Same cond. Eng & Contr (R & S) 61:1236-41 Je 4 '24

Building a motor road across the Florida Everglades. F. E. Lawrence and R. Y. Patterson. il plan map Eng N 93:412-17 S 11 '24

Conners' highway. Pub Works 55:237 Jl '24

Conners highway opens up a country of almost limitless possibilities. M. P. Davis. Manuf Rec 85:75-7 Je 26 '24

Local materials in road construction. E. W. James. Eng & Contr (R & S) 64:550-2 S 2 '25

Georgia

Georgia's state highways. il map Pub Works 55:7-10, 48-50 Ja-F '24

Highway reconstruction with state owned outfit. H. J. Friedman. il Eng & Contr (R & S) 63:13-16 Ja 7 '25

Maintenance force reconstruction of sand-clay roads. H. J. Friedman. il Eng N 94: 270-2 F 12 '25

Sand clay and top soil roads in Georgia. W. R. Neel. Eng & Contr (R & S) 62:16-19 Jl 2 '24

Sand-clay road maintenance practice in Georgia. H. J. Friedman. il diag Eng N 95: 378-80 S 3 '25

Swamp road construction in Georgia. W. R. Neel. Eng & Contr (R & S) 61:530 Mr 5 '24

Germany

Der strassenbau für den kraftwagenverkehr. W. Reiner. il diags Zeit Ver Deutsch Ing 69: 1233-7 S 26 '25

Great Britain

Impressions of English highway practice. A. B. Fletcher. il Pub Roads 5:1-4 F '25; Same. Munic & Co Eng 68:117-22 Mr '25; Same. Eng & Contr (R & S) 63:1204-9 Je 3 '25

Influence of road conditions on the development of the modern motor vehicle. H. G. Burford. Engineering 118:874-6 D 26 '24

Special toll highways for motor vehicles; motorways proposed in Italy and Great Britain. H: Tréhard. Eng & Contr (R & S) 61:1024-5 My 7 '24

See also Roads—England

Haiti

Road construction in Hayti. il Pub Works 54: 374-5 D '23

Hawaiian Islands

Highways of Hawaii. J. S. Bright. Eng & Contr (R & S) 64:322-4 Ag 5 '25

Illinois

Black base construction increases in Middle West. H. W. Skidmore. il Munic & Co Eng 67:277-80 D '24

Building 1,000 miles of paved road in one season in Illinois. C. M. Hathaway diags plan Eng N 92:63-5 Ja 10 '24

Concrete paving record in Illinois. il Pub Works 55:359-62 D '24

Du Page county (Ill.) boulevards. Munic & Co Eng 68:175 Ap '25

Experience with state aid roads in Illinois. A. B. Hurd. Munic & Co Eng 68:130-2 Mr '25

ROADS—Illinois—*Continued*
Illinois proposes one hundred million road bond issue. F. F. Sheets. map Good Roads 56:11-13+ Ja '24
State wide road maintenance. F. T. Sheets. il Eng & Contr (R & S) 63:471-80 Mr 4 '25; Same. Good Roads 68:143-8 Jl '25
Thousand-mile road system plan for Cook county. diags map Eng N 95:712-14 O 29 '25
Vehicular traffic in Chicago and Cook county. G: A. Quinlan. flow chart map W Soc E J 30:158-67 Ap '25; Same abr. Munic & Co Eng 68:125-8 Mr '25

India
Good roads problem in Madras, India. il Good Roads 56:15-17 Ja '24

Indiana
Bituminous work on Indiana state highways. W. K. O'Neill. Munic & Co Eng 67:93-5 Ag '24; Same. Eng & Contr (R & S) 62:46-8 Jl 2 '24
State highway progress in Indiana. Munic & Co Eng 69:67-70 Ag '25

Italy
Automobile toll road from Milan to Italian lakes. F. A. Shepley. il map Eng N 93:262-3 Ag 14 '24
Italian auto strade: Milan to the lakes. Nation's Business 13:61 Ja '25
Special toll highways for motor vehicles; motorways proposed in Italy and Great Britain. H: Tréhard. Eng & Contr (R & S) 61:1024-5 My 7 '24

Kansas
How good roads are bringing prosperity to Kansas farms. J. F. Smith. il Good Roads 67:112-13 O '24

Kentucky
Kentucky bond issue defeated. Pub Works 55:371-2 D '24
Volunteer road builders' wonderful work. N. Buckner. il Manuf Rec 85:79-81 Je 12 '24

Latin America
Motor roads in Latin America. F. B. Curran. il maps U S Bur For & Dom Com Trade Promotion Ser 18:1-166 [bibliog. p. 163-6] '25; Review. Eng & Contr (R & S) 64:813-14 O 7 '25

Louisiana
Construction of highways through swamp lands. J. M. Fourmy. il Eng & Contr (R & S) 61:722-5 Ap 2 '24
Good roads movement in Louisiana. J. M. Fourmy. il Good Roads 67:75-6 S '24
Summary of highway construction in Louisiana, completed and now under way. J. E. Clayton. Manuf Rec 86:83-4 Jl 31 '24

Maine
Maine highway transportation survey; a preliminary report. J. G. McKay and O. M. Elvehjem. maps Pub Roads 6:45-58+ My '25; Excerpts. Eng & Contr (R & S) 64:773-81 O 7 '25

Manitoba
Manitoba provincial highway maintenance. A. W. McGillivray. Can Eng 49:461-3; Discussion. M. H. Necker. 463-4 O 13 '25
Manitoba road dragging awards. Can Eng 47: 648 D 30 '24

Maryland
Six years of traffic counts on Maryland roads. Eng N 92:279 F 14 '24

Massachusetts
Massachusetts building its first three-strip pavement; two 10-ft. concrete strips with bituminous center. diag Eng N 95:299 Ag 20 '25
State highway construction in Massachusetts in 1922. Eng & Contr (R & S) 60:1208 D 5 '23
Traffic counts in Massachusetts. Eng & Contr (R & S) 64:808-9 O 7 '25

Mexico
Good roads in Mexico. il World's Markets 14:8-11 Ja '24
Oil companies build roads. il Pet Age 16:25 N 1 '25

Michigan
Central plant maintenance for highways. L. C. Smith. Can Eng 49:309-10 S 15 '25
Muskegon boulevard in Michigan. R. E. Johnson. il Good Roads 66:132+ My '24
1924 work in Michigan. F. F. Rogers. il Concrete 26:11-13 Ja '25
Road maintenance in Michigan. G. C. Dillman. Eng & Contr (R & S) 64:27-32 Jl 1 '25
Super-highways of the 20th century. E: N. Hines. Good Roads 68:13+ Ja '25; Same. Munic & Co Eng 67:275-7 D '24; Same. Eng & Contr (R & S) 63:75-7 Ja 7 '25; Abstracts. Pub Works 55:392 D '24; Eng N 94:116-17 Ja 15 '25
Winter maintenance in Michigan. B. C. Tiney. map Pub Works 56:342-4 S '25

Minnesota
Ten years of highway progress in Minnesota. C: A. Forbes and W. P. Chapman. Munic & Co Eng 67:134-7 S '24

Missouri
Bypass roads official policy in Missouri. C. W. Brown. maps Eng N 94:8-9 Ja 1 '25
Missouri's road problem. B. H. Piepmeier. map Munic Eng 65:197-8 N '23; Abstract. Good Roads 65:157 N 7 '23

New Brunswick
Status of highway system, New Brunswick. L. L. Theriault. il Can Eng 46:613-15 Je 17 '24

New Jersey
Eliminating highway bottleneck in New Jersey. diags map plan Eng N 95:176-8 Jl 30 '25
Highway parallels Hudson river along top of Palisades. il diags map Eng N 95:508-10 S 24 '25
Highway revetment along the Delaware river. L. E. Andrews. il diag Eng & Contr (R & S) 64:55-6 Jl 1 '25
Modern road improvement practice sets high standards. L. E. Andrews. il diags Eng N 95:48-51 Jl 9 '25
New Jersey plans arterial road from Holland tunnel. diags maps Eng N 94:371-3 Ap 30 '25
New route for arterial road from Holland tunnel. map Eng N 95:94 Jl 16 '25
Traffic congestion and relief. W: G. Sloan. Soc Auto Eng J 14:373-4; Discussion. 374-5 Ap '24
Trunk-highway motor-traffic. W: G. Sloan. il maps Soc Auto Eng J 15:238-45; Discussion. 245-50 S '24

New Mexico
Low type forest service road from Tusas to Tres Piedras, New Mexico. C. A. Long. il Eng & Contr (R & S) 64:547-9 S 2 '25
New Mexico highway notes. il Pub Works 55:282-3 S '24
Organization of the New Mexico state highway department. G. D. Macy. il map Good Roads 66:167-8 Je '24

New York (state)
See Bronx river parkway; Jamaica Bay boulevard

New Zealand
Road reconstruction in New Zealand. il Engineer 139:552-3 My 15 '25

North Carolina
Construction of pavement with marl-asphalt in North Carolina. W. F. Morson. il Eng & Contr (R & S) 62:517-20 S 3 '24

ROADS—North Carolina—*Continued*
Construction of sand asphalt pavements. H. C. Weathers. Can Eng 48:105-6 Ja 6 '25
Development of bituminous base and sand asphalt pavements. E. R. Olbrich. Munic & Co Eng 67:138-43 S '24; Same abr. Eng & Contr (R & S) 61:331-6 F 6 '24; Same cond. Eng N 92:114-15 Ja 17 '24; Excerpts. Can Eng 47:377-9 S 30 '24
Interesting road work in North Carolina. Pub Works 55:34 Ja '24
Marl-asphalt road in North Carolina. il Pub Works 55:313-14 O '24
Nashville-Springhope highway. F. W. Skinner. il Pub Works 55:1-5 Ja '24
North Carolina highway tour continued. A. V. Draper. Manuf Rec 85:77-8 Je 19 '23
North Carolina invests $76,000,000 in good roads. F. Page. il Manuf Rec 85:69-76 My 22 '24
North Carolina's road program. C: M. Upham. Pub Works 56:157 My '25
Road building: adapting proved principles to local conditions. C. N. Conner. il Eng N 92: 85 Ja 10 '24
Sand-asphalt pavements in North Carolina. il Pub Works 55:103-4 Ap '24
Southern transportation facilities. R. G. Macy. maps Management & Adm 8:403-8 O '24

Nova Scotia
Highway construction in Nova Scotia. R. W. McColough. il Can Eng 47:229-31 Ag 12 '24
Highway reconstruction in Nova Scotia. R. W. McColough. il Can Eng 48:555-7 Je 9 '25

Ohio
Marking Ohio highways. Eng & Contr (R & S) 63:1241 Je 3 '25
Stage or traffic bound construction. R. H. Smith. Eng & Contr (R & S) 64:19-22 Jl 1 '25

Ontario
Equalizing road assessments. Can Eng 48: 429 Ap 21 '25
Highway construction in Ontario, 1924. il map Can Eng 48:253-5 F 24 '25
Highways link Ontario cities. S. L. Squire. Can Eng 49:434 O 6 '25
Longest continuous paved highway in Canada. Can Eng 49:267 S 1 '25
Ontario provincial highway system. S. L. Squire. Can Eng 48:509-10 My 19 '25
Road construction and maintenance. J. Todd. Can Eng 48:435-6 Ap 28 '25
Surfacing of Ontario highways. Can Eng 48: 600 Je 23 '25; Eng & Contr (R & S) 63: 1235 Je 3 '25

Palestine
Motor road from Haifa to Acre in Palestine. P. W. Etkes. il map plans Eng N 92:314-15 F 21 '24

Pennsylvania
Highway business; what Pennsylvania is doing. W: H. Connell. chart Ann Am Acad 116:113-27 N '24; Same cond. Can Eng 47: 137-40 Jl 8 '24; Same abr. Eng & Contr (R & S) 62:545-8 S 3 '24
Much road improvement under way in Allegheny county. Eng N 94:1061 Je 25 '25
Pennsylvania highway transport survey. W: H. Connell. Munic & Co Eng 68:195-203 Ap '25; Excerpts. Eng & Contr (R & S) 63: 675-9 Ap 1 '25

Peru
Road construction in Peru. W. E. Dunn. U S Bur For & Dom Com Trade Information Bul 198:1-16 '24

Prince Edward Island
Federal aid renewal would be appreciated by people of Prince Edward Island. li map Can Eng 49:372-6 S 29 '25

Quebec
Good roads in the province of Quebec. J. L. Boulanger. il map Can Eng 49:305-8 S 15 '25
Progress of road construction in Quebec. J. L. Boulanger. il map Can Eng 48:225-30 F 17 '25
Results of traffic census in Quebec. J. L. Boulanger. Can Eng 49:455-7 O 13 '25; Excerpt. Eng & Contr (R & S) 64:1024-5 N 4 '25; Discussion. R. M. Smith. Can Eng 49: 457-9 O 13 '25
Road building active in Quebec. Can Eng 49: 318 S 15 '25
Status of provincial highways, Quebec. J. L. Boulanger. plan Can Eng 46:193-5 Ja 29 '24

Saskatchewan
Highway construction in Saskatchewan. il Can Eng 48:275-6 Mr 3 '25
Saskatchewan highway system. J. G. Gardiner. Can Eng 45:593-4 D 18 '23

South Carolina
New hard surfaced highways revolutionize agriculture in Sumter county. C. S. Lee. il Good Roads 66:111-12 Ap '24
Southern transportation facilities. R. G. Macy. maps Management & Adm 8:403-8 O '24

Southern states
Fifty years of progress in highway improvement in southern states. T: H. MacDonald. il Manuf Rec 86:270-81 pt 2 D 11 '24
Need of a South Atlantic coastal highway. J. H. Pratt. Manuf Rec 86:65-7 D 11 '24
Progress of highway construction in the South. il Manuf Rec 85:84-94 Ja 10 '24
Road construction in the South. Pub Works 55:5-6 Ja '24
Southern road and bridge work in 1924. Manuf Rec 87:89 Ja 1 '25
Southern states forge to front in road construction. il Good Roads 68:245-6 O '25
Southern states making rapid progress in highway construction and improvement. il Manuf Rec 87:101-16 Ja 1 '25

Southwestern states
Paving activities of the central Southwest. H. C. Smith. Munic Eng 66:20-2 Ja '24

Tennessee
Highway construction in Tennessee. N. W. Dougherty. il Manuf Rec 88:98-9 Ag 13 '25

Texas
How Jefferson county, Texas, is building a good roads system. il Good Roads 67:54-5 Ag '24

United States
Earnings of improved highways far exceed their cost. T: H. MacDonald. Automotive Ind 49:1237-9 D 20 '23
Education for highway engineering and highway transport. W. C. John, ed. 247p U.S. Highway educ. board, Washington '24
Estimated state and local highway expenditure program for 1925. Eng N 95:19 Jl 2 '25
Growth of highway mileage and rural highway expenditures, 1904-1923. Automotive Ind 50: 381 F 21 '24
National forests road systems. L. I. Hewes. Eng & Contr (R & S) 62:1021-4 N 5 '24
Progress of rural highway construction in the United States. Comm M 7:22-6 S '25
Roads and wages. Pub Works 55:372 D '24
States building most roads are most prosperous. Automotive Ind 53:170-1 Jl 30 '25
Trail construction on the national forests. 81p U.S. Dept. of agriculture. Forest service, '23
Trunk highway motor transport. W: G. Sloan. Automotive Ind 50:672-3 Mr 20 '24
United States develops distinctive roads. Good Roads 66:136+ My '24

See also Roads—Federal aid; *also* Dixie highway; Lincoln highway; Victory highway; *also* United States—Public roads, Bureau of

ROADS—*Continued*

Utah

Trench excavators build road grade across lake of mud from Salt Lake City to Nevada state line. il diag Eng N 94:686-9 Ap 23 '25

An unusual highway embankment; the Wendover road. Pub Works 55:256-7 Ag '24

Wendover cutoff in Utah. H. C. Means. il Eng & Contr (R & S) 64:297-305 Ag 5 '25

Wendover cut-off opened. W: Jardine. Eng & Contr (R & S) 64:54 Jl 1 '25

Washington (state)

Economical road surfacing in a sparsely populated semi-arid territory. J. L. Thayer. Eng & Contr (R & S) 61:317-26, 503-9 F 6, Mr 5 '24

Washington highway notes. il Pub Works 56:23-4 Ja '25

West Virginia

Highway construction in West Virginia. D. M. Mawhinney. il Can Eng 48:615-17 Je 30 '25

Highway construction progress in West Virginia. A. J. Mills. il Manuf Rec 87:96-7 Je 18 '25

Western states

Good roads in the West. W. D. Fisher. il Good Roads 56:9-10 Ja '24

Wisconsin

Beginning of road building in Wisconsin. F. M. Balsey. il Eng & Contr (R & S) 63: 671-4 Ap 1 '25

Wisconsin's new 10,000 mile state trunk highway system. J. T. Donaghey. il Munic Eng 67:116-20 Mr '24

Wyoming

Wind River Canyon highway in Wyoming. C: J. Bangert. il Good Roads 56:55-6 F '24

ROADS, Asphalt

Asphalt in modern highway construction. F. P. Smith. Good Roads 66:98-100, 130-2 Ap-My '24

Asphalt road conference held at Louisville. Eng N 93:685 O 23 '24; Can Eng 47:559-60 D 2 '24

Asphalt surfacing of old macadam and gravel in Ohio. H. S. Perry. Munic & Co Eng 67: 166-8 O '24; Same abr. Good Roads 67:166-7+ D '24

Cold-mix rock asphalt production and road building. il diags Eng N 92:886-90 My 22 '24

Construction of pavement with marl-asphalt in North Carolina. W. F. Morson. il Eng & Contr (R & S) 62:517-20 S 3 '24

Construction of sand asphalt pavements. H. C. Weathers. Can Eng 48:105-6 Ja 6 '25

Design and construction of sand asphalt pavements. S. R. Murray. il Munic & Co Eng 66:253-6 Je '24

Development of bituminous base and sand asphalt pavements. E. R. Olbrich. Munic & Co Eng 67:138-43 S '24; Same abr. Eng & Contr (R & S) 61:331-6 F 6 '24; Same cond. Eng N 92:114-15 Ja 17 '24; Excerpts. Can Eng 47:377-9 S 30 '24

Getting the most for the highway dollar. J. E. Pennybacker. Good Roads 65:188-9 D 5 '23

Marl-asphalt road in North Carolina. il Pub Works 55:313-14 O '24

Sand-asphalt pavements in North Carolina. il Pub Works 55:103-4 Ap '24

Trend of asphalt road construction—1923 and 1924. J. E. Pennybacker. Good Roads 56: 56-8 F '24

See also Pavements, Asphalt

ROADS, Automobile

Automobile toll road from Milan to Italian lakes. F. A. Shepley. il map Eng N 93:262-3 Ag 14 '24

Highway requirements indicated by traffic growth; plea for motorways. Eng N 93:269 Ag 14 '24

Italian auto strade: Milan to the lakes. Nation's Business 13:61 Ja '25

Special toll highways for motor vehicles; motorways proposed in Italy and Great Britain. H: Tréhard. Eng & Contr (R & S) 61:1024-5 My 7 '24

See also Roads—Superhighways

ROADS, Bitulithic

Road salvaging procedure in Wyoming. il Munic Eng 67:143-4 Mr '24

ROADS, Bituminous

Bituminous macadam road construction. A. O. Hastings. Eng & Contr (R & S) 63:967-71 My 6 '25

Construction and maintenance of bituminous macadam roads. R. W. Coburn. Boston Soc C E J 10:298-313 S '23; Same. Eng & Contr (R & S) 60:715-21 O 3 '23; Same. Can Eng 46:233-7 F 12 '24

Construction of bituminous roads. F. N. Rutherford. Can Eng 48:279-80 Mr 3 '25

Design of bituminous macadam pavements. J: S. Crandell. Can Eng 49:477-9 O 20 '25

Experimental bituminized earth road in Alberta. il Eng & Contr (R & S) 62:731-4 O 1 '24

Les liants hydrocarbonés pour le revêtement des routes. F. Mange. Génie Civil 85:446-51 N 15 '24

Limitations of bituminous surface treatments and bituminous macadam pavements under modern traffic. I. W. Patterson. Munic & Co Eng 66:159-65 Ap '24; Same. Eng & Contr (R & S) 61:1008-13 My 7 '24; Same. Can Eng 46:621-5 Je 17 '24; Excerpt. Eng N 92:1100 Je 26 '24

Old roads surfaces as base for bituminous macadam. A. H. Hinkle. il Eng & Contr (R & S) 63:467-70 Mr 4 '25

See also Pavements, Asphalt; Pavements, Bituminous; Roads, Asphalt

Maintenance and repair

Bituminous road maintenance. B. H. Piepmeier. Munic & Co Eng 69:1-3 Jl '25

Maintenance of bituminous surface roads. E. A. James. il Can Eng 46:299-300+ Mr 4 '24; Same. Eng & Contr (R & S) 61:751-5 Ap 2 '24

ROADS, Bituminous concrete

Bituminous paving mixtures for resurfacing old macadam roads. D. M. Hepburn. Can Eng 49:363-5; Discussion. J. A. Lalonde. 365 S 29 '25

Black base construction increases in Middle West. H. W. Skidmore. il Munic & Co Eng 67:277-80 D '24

Dundas street pavement construction. il Can Eng 46:584-5 Je 3 '24

Ontario road type adopted in U.S. C. S. Lee. Can Eng 46:478 Ap 29 '24

Resurfacing old highways. W. E. Grayson. Can Eng 48:234 F 17 '25; Same abr. Eng & Contr (R & S) 62:1205-6 D 3 '24

Resurfacing old macadam roads with bituminous concrete made of a standard hot mix, emulsified asphalt or rock asphalt. il Eng & Contr (R & S) 63:450-1 Mr 4 '25

Use of asphaltic concrete in pavements. C. P. Jensen. Can Eng 45:620-3 D 25 '23; Same abr. Eng & Contr (R & S) 60:958-60 N 7 '23

Widening concrete slab with asphaltic concrete. J. C. McLeod. il Eng & Contr (R & S) 63:703-5 Ap 1 '25; Same. Pub Works 56:204-7 Je '25

ROADS, Brick

Brick roads and pavements at their best. W. P. Blair. il Manuf Rec 85:75-6 Ja 10 '24

Brick roads of Florida. C. A. Hogentogler. il Pub Roads 5:18-29 Ap '24; Same cond. Eng & Contr (R & S) 61:1236-41 Je 4 '24; Abstract. Pub Works 55:147-8 My '24

Old paving brick relaid on Ohio state highway. A. Wise. il Pub Works 55:229-30 Jl '24

Thinning down brick wearing surfaces. W. D. P. Warren. Eng N 94:116 Ja 15 '25

See also Pavements, Brick

ROADS, Concrete

Action of sodium silicate on concrete. Soc Chem Ind J (Chem & Ind) 42:1251-2 D 28 '23

ROADS, Concrete—*Continued*
Advantages of single track concrete roads. A. M. Jackson. Can Eng 46:304-5 Mr 4 '24; Same. Eng & Contr (R & S) 61:718-21 Ap 2 '24
All about a highway record maker and why; G. P. Scharl. H. A. Scribner. il Eng & Contr (R & S) 62:1009-11 N 5 '24
Are concrete roads or pavements eventually economical? J. W. Howard. il Good Roads 66:101-2 Ap '24
Automobile toll road from Milan to Italian lakes. F. A. Shepley. il map Eng N 93: 262-3 Ag 14 '24
Behavior of concrete in roads. A. T. Goldbeck. Am Soc T M Pro 23 pt 2:191-201 '23; Same. Can Eng 46:385-8 Ap 1 '24
Better concrete roads. Pub Roads 5:29 Ap '24; Same. Eng & Contr (R & S) 61:1252 Je 4 '24
Better highways use more steel in 1925 programs. R. T. Mason. il Iron Tr R 76:749-52 Mr 19 '25
Building a cliff road to the Bear Mountain bridge. J: M. Belknap. il Eng N 93:736-8 N 6 '24
Causes of cracks in concrete roads. H. P. H. Morgan. Can Eng 46:539-41 My 20 '24
Cement requirements for modern highway construction. A. T. Goldbeck. Eng N 95:65-6 Jl 9 '25
Concrete highway construction in Alabama. P. A. Davis. il diag Pub Works 56:356-8 O '25
Concrete pavement construction in 1924. C. R. Ege. Good Roads 68:28 Ja '25
Concrete pavement construction in Wilbarger county, Texas. J. B. Nabers and E. L. McHugh. il Eng & Contr (R & S) 61:22-5 Ja 2 '24
Concrete pavement reinforcement logically designed. G: D. Burr. diags plan Eng N 92:78-9 Ja 10 '24; Discussion. 92:79-81, 418, 542, 628, 738-9, 948; 94:595-6 Ja 10, Mr 6, 27, Ap 10, 24, My 29 '24, Ap 9 '25
Concrete pavements of Contra Costa county, California. R. R. Arnold. il Eng & Contr (R & S) 63:5-8 Ja 7 '25
Concrete paving record in Illinois. il Pub Works 55:359-62 D '24
Concrete road construction in Missouri. B. H. Piepmeier. Munic & Co Eng 68:315-19 Je '25
Concrete road construction methods. C. C. Mason. Concrete 25:103-4 S '24
Concrete road with inverted crown. R. H. Hunter. Pub Works 56:52 F '25
Concrete roads greatly reduce tire wear. il Automotive Ind 52:670-1 Ap 9 '25
Concrete roads in Wentworth. H. A. Lumsden. Can Eng 46:330 Mr 11 '24
Construction of concrete pavements. H. C. Boyden. Can Eng 47:157-60 Jl 15 '24; Same abr. Eng & Contr (R & S) 62:537-43 S 3 '24
Construction of concrete pavements. G. Grant. diags Can Eng 45:461-5 N 6 '23
Continuous pouring of concrete road. Pub Works 56:175 My '25
Contractors and the new concrete section. Pub Works 56:25 Ja '25
Cutting down curing period for concrete roads. H. F. Clemmer. il Eng & Contr (R & S) 61:283-90 F 6 '24; Same. Concrete 24:148-51 Ap '24; Same abr. Eng N 92:577-80 Ap 3 '24; Same cond. Can Eng 46:455-7 Ap 22 '24; Abstract. Pub Works 55:125-6 Ap '24
Design, construction and maintenance of reinforced concrete pavements. H. E. Breed. Concrete 26:132-4 Ap '25; Same. Good Roads 68:149-52 Jl '25; Same. Munic & Co Eng 69: 84-9 Ag '25
Design of paved road for dam top Dayton flood works. C. S. Bennett. diags Eng N 93:660-1 O 23 '24
Destructive forces in pavements. S. B. Moore and F. A. Tondorf. Munic & Co Eng 69:3-5 Jl '25
Facts about concrete highways. Eng N 95:324 Ag 20 '25
15-mile road paved in 135 days. il Eng & Contr (R & S) 63:80 Ja 7 '25
Good work on Dixie highway. il diag Pub Works 54:368-9 N '23
High-cost highway for terminal traffic. H. D. Robbins. Eng N 94:115 Ja 15 '25
Highway parallels Hudson river along top of Palisades. il diags map Eng N 95:508-10 S 24 '25
Highway research in Illinois. C. Older. il Am Soc C E Pro 50:175-217 F '24; Same cond. Munic & Co Eng 67:103-11 Mr '24; Same cond. Eng & Contr (R & S) 61:981-93 My 7 '24; Abstract. Génie Civil 85:149-51 Ag 16 '24
How to get uniformity in road concrete. W. W. Zass. Concrete 25:105-6 S '24
Interrelation of longitudinal steel and transverse cracks in concrete roads. A. T. Goldbeck. diags Pub Roads 6:117-20 Ag '25; Abstracts. Pub Works 56:329-30 S '25; Can Eng 49:533-4 N 10 '25
Investigation in the use of calcium chloride as a curing agent and accelerator of concrete. H. F. Clemmer and F. Burggraf. il Am Soc T M Pro 23 pt 2:296-314; Discussion. 315-28 '23
Making concrete road finishers and subgraders do their best work. L. Gardiner. il Eng N 91:949-51 D 6 '23
Method of insulating the subgrade of concrete roads. R. R. Dobelbower. Eng & Contr (R & S) 61:55-6 Ja 2 '24
Modern road improvement practice sets high standards. L. E. Andrews. il diags Eng N 95: 48-51 Jl 9 '25
Nashville-Springhope highway. F. W. Skinner. il Pub Works 55:1-5 Ja '24
New design expected to cut cost of concrete roads. diags plan Eng N 92:614-15 Ap 10 '24
New rapid-hardening road cement used in England. Automotive Ind 53:62, 182-3 Jl 9, 30 '25
New type of slab reinforcement for concrete roads. C. N. Conner. plan Eng N 93:954 D 11 '24
1924 road program involves large steel tonnage. R. T. Mason. il Iron Tr R 75:349-52 Ag 7 '24
Piles through old swamp roadbed carry concrete road. C. N. Conner. il diags Eng N 93: 872-3 N 27 '24
Progress in concrete road construction and design in 1923. C. R. Ege and others. il Concrete 24:3-13 Ja '24
Proportioning concrete materials with especial reference to highway construction. G. W. Hutchinson. il charts Am Concrete Inst Pro 21:148-76; Discussion. 177-9 '25
Quick-hardening pavement in Rhode Island. Pub Works 56:209-11 Je '25
Quick setting concrete for highway paving. A. W. Bushell. il Pub Works 55:281-2 S '24
Recent conclusions in highway research. A. T. Goldbeck. Pub Roads 5:10-14 Ja '25; Same. Concrete 26:92-5 Mr '25
Recent developments in the construction of cement-concrete roads. H. E. Breed. Can Eng 49:366-7 S 29 '25; Same abr. Eng & Contr (R & S) 64:985-91 N 4 '25; Discussion. E. A. James. Can Eng 49:368 S 29 '25
Recent practice, highway reinforcement. H. E. Breed. Can Eng 46:491-4 My 6 '24
Reconstructing Boston Post road thirty-six feet wide. il maps Eng N 95:218-21 Ag 6 '25
Reinforced concrete pavement survey. C. A. Hogentogler. Pub Roads 5:19 F '25; Same. Eng & Contr (R & S) 63:692 Ap 1 '25
Reinforced concrete roads. Can Eng 49:524 N 3 '25
Reinforcement in concrete roads worth its cost. H. E. Breed. Eng N 91:790-2 N 15 '23; Same. Can Eng 46:227-9 F 12 '24
Reinforcing and the subgrade as factors in the design of concrete pavements; a study of experimental sections of the Columbia Pike. J. T. Pauls. Pub Roads 5:1-9 O '24; Abstracts. Concrete 26:40-1 Ja '25; Pub Works 55:343-4 N '24; Excerpt. Eng N 93: 743 N 6 '24
Report of highways research at Pittsburg, California, 1921 and 1922. 146p California state ptg. off., Sacramento '23

ROADS, Concrete—*Continued*
Report submitted on value of reinforcement in concrete roads. Eng N 95:282 Ag 13 '25
Road cross section changed by Ontario department of public highways. diag Can Eng 47:376 S 30 '24
Les routes en béton de ciment. diags Génie Civil 84:274-7 Mr 22 '24
Smoothness surveys urge reforms in road design. H. Dunbar. Eng N 92:862-3 My 15 '24
Some essential points on the inspection of concrete highways. H. S. Mattimore. il Good Roads 67:1-2+ Jl '24
Specific requirements safeguard road concrete. Eng N 94:1017 Je 18 '25
Swamp road building among the Indiana sand dunes. H. M. Herald. il plan Eng N 92:58-60 Ja 10 '24
Tar paper on loess subgrade lessens hair cracks in concrete pavement. R. W. Crum. il Pub Roads 6:127-8 Ag '25; Same. Eng & Contr (R & S) 64:791-2 O 7 '25
Two trips of mixer construct four-way pavement. J: J. Murphy. il Eng N 91:1053-4 D 27 '23
Unusual problem in concrete road materials. D. A. Abrams. Concrete 26:117 Ap '25
Use of concrete in road construction. A. N. Johnson. il charts Am Concrete Inst Pro 20:53-89 [bibliog. p. 85-9] '24
Weighing concrete aggregates on highway pavements. R. W. Crum. il Am Concrete Inst Pro 20:296-309 '24; Same, without il. Eng & Contr (R & S) 61:730-5 Ap 2 '24; Excerpt. Eng N 92:451 Mr 13 '24; Discussion. Am Concrete Inst Pro 20:310-11 '24
What concrete road builders are thinking about; a symposium. il Concrete 26:3-13 Ja '25
What highway investigations have shown. A. T. Goldbeck. bibliog diags map Eng Soc W Pa 41:170-207 Je '25; Same cond. Concrete 27:26-8, 44-6 Ag; 22-6 S; 19-21 O '25; Same cond. Good Roads 68:175-80, 217-22+ Ag-S '25; Same cond. Can Eng 49:577-80, 595-9 N 24-D 1 '25; Discussion. Eng Soc W Pa 41:208-20 Je '25
Widening a California state highway. A. W. McCurdy. Pub Works 56:85 Mr '25
Yardage of concrete roads in 1924. Concrete 26:2 Ja '25

See also Pavements, Concrete; Roads, Bituminous concrete

Construction equipment

Combination haul on road job; Niles-Ashtabula road. il Eng & Contr (R & S) 63:225-8 F 4 '25; Pub Works 56:60-1 F '25
Concrete highway problem solved by modern road-making machinery. W. T. Charles. il Dun's Int R 45:37-40+ My '25
Concrete paving units. W. W. Zass. il Concrete 26:189-91 Je '25
Concrete road built with combination haul plant. il Concrete 26:205-6 Je '25
Concrete road with machine-molded center joint. il diags Eng N 95:354-5 Ag 27 '25
Contractors' plant and other modern developments used in constructing concrete pavements. E. G. Willemin. Pub Works 55:110 Ap '24
Economic uses of the bucket loader in paving work. J. E. Marson. il Eng & Contr (R & S) 64:511-17 S 2 '25
Labor-saving equipment in road construction. E. H. Lichtenberg and J. A. Shepard. il Mech Eng 47:414-15 sec 2 My '25
Novel and effective use of an air-driven hoist. V. H. Vandiver. Gas Age 54:710 N 15 '24
Perforated roller for rolling concrete. il Eng & Contr (Equip R) 64:740 S 30 '25
Specially equipped truck places stone for bank protection. il Eng N 93:803 N 13 '24
Using a mechanical road finisher on widened curves. il Eng N 94:532 Mr 26 '25

See also Concrete mixing—Central plants

Construction schedules

6¼ miles concrete road in 52 days. il Eng & Contr (R & S) 63:715-16 Ap 1 '25
What is a day's work building concrete roads? H. K. Davis. Eng N 92:1063-4 Je 19 '24

Cost

Concrete roads in Wentworth. H. A. Lumsden. Can Eng 46:330 Mr 11 '24

Forms

Device holds steel parting strips to grade and alignment. H. J. Kuelling. il Eng N 92: 162 Ja 24 '24
Relation of form setting to riding qualities of concrete pavements. C. N. Conner. Munic & Co Eng 68:111-16 Mr '25; Same cond. Good Roads 68:153-5+ Jl '25; Abstracts. Eng N 94: 477-8 Mr 19 '25; Pub Works 56:219-20 Je '25

Joints

Concrete road with machine-molded center joint. il diags Eng N 95:354-5 Ag 27 '25
Interrelation of longitudinal steel and transverse cracks in concrete roads. A. T. Goldbeck. diags Pub Roads 6:117-20 Ag '25; Abstracts. Pub Works 56:329-30 S '25; Can Eng 49:533-4 N 10 '25
Precast concrete blocks strengthen road joint intersections. il Eng N 95:28 Jl 2 '25
Traffic lines and road joints. Concrete 26: 181-2 My '25

Maintenance and repair

Developments in constructing and maintaining cement concrete pavements. L. V. Belknap. Munic & Co Eng 68:102-8 F '25; Same. Concrete 26:209-12 Je '25; Abstract. Good Roads 68:189+ Ag '25
Improved methods cut upkeep costs of concrete roads. H. J. Friedman. il Eng N 94:514-16 Mr 26 '25
Maintenance. L. C. Smith. Eng N 92:147 Ja 24 '24
Maintenance of concrete roads in Missouri. B. H. Piepmeier. Munic & Co Eng 69:24-7 Jl '25; Same. Eng & Contr (R & S) 64:1235-8 D 2 '25
New developments in maintenance of concrete and brick roads. A. H. Hinkle. diag Concrete 27:30-3 Ag '25
Patching concrete roads with concrete. W. R. Eccles. Eng & Contr (R & S) 63:9-11 Ja 7 '25; Abstract. Pub Works 56:42-3 F '25
Quick hardening concrete patches for old roads. A. H. Hinkle. il Eng N 94:115-16 Ja 15 '25; Same. Eng & Contr (R & S) 63:454-5 Mr 4 '25
Quick-hardening concrete patching with ordinary cement. diags Eng N 95:356-7 Ag 27 '25
Repair of concrete road blow-ups in Delaware. il diags Eng N 95:432-3 S 10 '25
White joint and crack filler for concrete roads. L. G. Carmick. il Pub Roads 5:21-2 My '24; Same. Good Roads 66:169+ Je '24; Same. Munic & Co Eng 66:263-4 Je '24; Same. Concrete 25:31 Jl '24

Specifications

Concrete highway construction. il Can Eng 49: 275-6 S 1 '25
Standard specifications for Portland cement concrete pavements for highways and streets. Am Concrete Inst Pro 20:695-715 '24

Testing

Accelerated wear tests of concrete pavements. F. H. Jackson and J. T. Pauls. il Am Soc T M Pro 24 pt 2:864-96 '24; Same. Pub Roads 5:1-19 My '24; Same. Eng & Contr (R & S) 62:302-13 Ag 6 '24; Excerpts. Eng N 92: 984-5 Je 5 '24; Concrete 25:30-1 Jl '24; Abstract. Engineering 120:202 Ag 14 '25; Conclusions. Pub Works 55:194-6 Je '24; Discussion. Am Soc T M Pro 24 pt 2:897-900 '24
Arlington tests. A. T. Goldbeck. Eng N 92: 156 Ja 24 '24
Checking of concrete road surfaces. G. A. Macdonald. il Can Eng 47:235-9 Ag 12 '24; Same. Eng & Contr (R & S) 62:1013-19 N 5 '24
Concrete test road in Pennsylvania. Eng & Contr (R & S) 62:760 O 1 '24; Same. Concrete 26:29 Ja '25

ROADS, Concrete—Testing—*Continued*
Condition of the Ohio Post road after 10 years under traffic. F. H. Jackson. il Pub Roads 6:81-5+ Je '25; Same cond. Pub Works 56: 238-41 Jl '25
Effect of moisture on concrete. W. K. Hatt. il Am Soc C E Pro 51:757-93 My '25; Excerpts. Concrete 26:192-3 Je '25; Abstract. Pub Roads 6:14-23 Mr '25; Conclusions. Pub Works 56:215-16 Je '25
Friction tests of concrete on various subbases. A. T. Goldbeck. Pub Roads 5:19-20+ Jl '24; Same. Eng & Contr (R & S) 62: 321-4 Ag 6 '24; Same. Concrete 25:193-5 N '24
Impact tests on concrete pavement slabs. L. W. Teller. il Pub Roads 5:1-14 Ap '24; Excerpts. Munic & Co Eng 66:257-9 Je '24; Concrete 25:22-3 Jl '24; Pub Works 55:221-3 Jl '24
National concrete highway tests. W. S. Edge. Concrete 24:112 Mr '24
Recent conclusions in highway research. A. T. Goldbeck. Pub Roads 5:10-14 Ja '25; Same. Eng & Contr (R & S) 63:460-5 Mr 4 '25
Static load tests on pavement slabs. J. T. Thompson. il diags Pub Roads 5:1-6 N '24; Abstract. Pub Works 55:364-6 D '24; Excerpt. Concrete 26:29-30 Ja '25
Status of the motor truck impact tests of the Bureau of public roads. C. A. Hogentogler. il Pub Roads 5:11-14 N '24; Same. Eng & Contr (R & S) 63:54-8 Ja 7 '25

Three-strip pavements

Massachusetts building its first three-strip pavement; two 10-ft. concrete strips with bituminous center. diags Eng N 95:299 Ag 20 '25

Vibrolithic process

Constructing concrete roads by vibration; general process and special plant. il Eng N 94:26-7 Ja 1 '25; Abstract. Sci Am 132:407+ Je '25
La méthode vibrolithic pour la construction des routes en béton. A. Antoine. il Génie Civil 87:108-9 Ag 1 '25
Practical construction experience. S. D. Moore. il Eng N 94:27-8 Ja 1 '25
Special construction features. H. L. Tillson. il Eng N 94:28-9 Ja 1 '25

ROADS, County
Maintenance of county highways; tabulation. Pub Works 56:184-91 My '25

ROADS, Desert
Dips take the place of bridges on paved road in desert foothills. il Eng N 94:284-5 F 12 '25
Timber road of portable section laid on California desert. il diags Eng N 94:20-1 Ja 1 '25; Eng & Contr (R & S) 62:1204 D 3 '24
An unusual highway embankment; the Wendover road. Pub Works 55:256-7 Ag '24

ROADS, Earth
Construction of highways through swamp lands. J. M. Fourmy. il Eng & Contr (R & S) 61:722-5 Ap 2 '24
Dirt roads improved by lime mixed with surface soil. E. J. McCaustland. Eng N 94: 1055 Je 25 '25
Georgia's state highways. il map Pub Works 55:7-10, 48-50 Ja-F '24
Grading of earth roads. H. A. La Rue. Mo U Eng Exp Sta Bul 34:1-24 '24
Materials-handling practice on Ohio's stage construction highways. R. H. Smith. il Eng N 94:30-2 Ja 1 '25
Principles and methods for sand-clay, topsoil and semi-gravel roads. C. M. Strahan. Nat Research Council Bul v 8, pt 1:81-8 Mr '24
Roadway built up of spoil from drainage-ditch excavation. G: C. Love. diag Eng N 92:165 Ja 24 '24
Sand-clay and semi-gravel roads studied; progress report of cooperative research on selected roads in Georgia. Pub Roads 5: 16-19 O '24
Sand clay and top soil roads in Georgia. W. R. Neel. Eng & Contr (R & S) 62:16-19 Jl 2 '24
See also Roads, Macadamized

Maintenance and repair

Dirt road maintenance in mountainous district. R. E. Pierce. Eng & Contr (R & S) 60:979-80 N 7 '23
Earth road maintenance in Iowa. W. H. Root. Eng N 94:34 Ja 1 '25
Everyday detail of earth road maintenance; abstracts. B. H. Piepmeier. Eng N 95:12-14 Jl 2 '25; Eng & Contr (R & S) 64:285-8 Ag 5 '25
Highway maintenance in Manitoba. A. W. McGillivray. Eng & Contr (R & S) 64:1005-7 N 4 '25
Maintenance force reconstruction of sand-clay roads. H. J. Friedman. il Eng N 94:270-2 F 12 '25
Sand-clay road maintenance practice in Georgia. H. J. Friedman. il diag Eng N 95: 378-80 S 3 '25

ROADS, Experimental
Bates test road. R. R. Benedict. Eng Soc W Pa 39:340-4; Discussion. 345-9 D '23
Experimental oiled roads in Illinois. H. F. Clemmer and F. L. Sperry. il Eng & Contr (R & S) 61:497-502 Mr 5 '24; Abstract. Eng N 92:446-7 Mr 13 '24
Highway research in Illinois. C. Older. il Am Soc C E Pro 50:175-217 F '24; Same cond. Munic & Co Eng 67:103-11 Mr '24; Same cond. Eng & Contr (R & S) 61:981-93 My 7 '24; Abstract. Génie Civil 85:149-51 Ag 16 '24
Invisible track type of highway; experimental section being constructed in Kentucky. diag Eng & Contr (R & S) 60:956-7; 61:34-5 N 7 '23, Ja 2 '24; Eng N 92:84 Ja 10 '24
More test pavements. Pub Works 55:366-7 D '24
Reinforcing and the subgrade as factors in the design of concrete pavements; a study of experimental sections of the Columbia Pike. J. T. Pauls. Pub Roads 5:1-9 O '24; Abstracts. Concrete 26:40-1 Ja '25; Pub Works 55:343-4 N '24; Excerpt. Eng N 93: 743 N 6 '24
Results and application of the Bates road tests. C. Older. W Soc E J 29:225-38; Discussion. 238-40 My '24

ROADS, Granite
Trunk-highway motor-traffic. W: G. Sloan. il maps Soc Auto Eng J 15:238-45; Discussion. 245-50 S '24

ROADS, Gravel
Construction and maintenance of gravel roads. J: H. Mullen. Eng & Contr (R & S) 61:518-21 Mr 5 '24; Same. Munic & Co Eng 66:186-90 Ap '24; Excerpt. Eng N 91: 983-4 D 13 '23
Dust elimination on gravel roads. B. C. Tiney. Munic & Co Eng 68:32-5 Ja '25; Same. Can Eng 48:211-12 F 10 '25; Same. Eng & Contr (R & S) 63:249-53 F 4 '25; Same. Eng N 94: 553-4 Ap 2 '25
Dust laying on surfaced roads in California thru use of hygroscopic salts. H. S. Comly. Eng N 94:398-400 Mr 5 '25; Same cond. Pub Works 56:84-5 Mr '25
Elimination of dust on gravel roads. B. C. Tiney. il Can Eng 49:359-62; Discussion. A. Fraser. 362-3 S 29 '25
Gravel road building with industrial railway; building the 21-mile Lacolle-St Johns highway in the Province of Quebec. il Eng & Contr (R & S) 61:527-30 Mr 5 '24
Gravel road construction in Missouri. B. H. Piepmeier. Munic & Co Eng 68:176-8 Ap '25
Gravel roads in Iowa. Pub Works 56:203-4 Je '25
Method of constructing gravel roads in South Dakota. A. Marvick. Eng & Contr (R & S) 61:522 Mr 5 '24
New tar surface treatment for gravel roads. il Eng N 94:857, 1032 My 21, Je 18 '25; Same. Eng & Contr (R & S) 63:456 Mr 4 '25

ROADS, Gravel—*Continued*
Oiled sub-base for gravel surfacing. B. H. Piepmeier. Eng N 94:33 Ja 1 '25
Rhythmic corrugations in gravel roads. G: E. Ladd. il Pub Roads 5:18-20+ S '24; Same abr. Eng & Contr (R & S) 62:1226-30 D 3 '24; Same cond. Eng N 93:636-7 O 16 '24; Discussion. Eng N 93:722, 844, 1048; 94:125-6 O 30, N 20, D 25 '24, Ja 15 '25
Road construction without moisture. O. C. Payne. Eng & Contr (R & S) 64:811-12 O 7 '25; Same cond. Pub Works 56:451 D '25

Maintenance and repair

Bituminous surface treatments of Michigan gravel roads. F. L. Betts. Good Roads 68: 185-6 Ag '25
Bituminous treatment of gravel roads. A. D. Carpenter. Munic & Co Eng 68:229-33 My '25
Calcium chloride road treatment. Can Eng 46:353 Mr 18 '24
Elgin county maintenance organization. F. Pineo. Can Eng 46:351-2 Mr 18 '24
Gravel road maintenance. J. T. Donaghey. Munic & Co Eng 68:75-82 F '25; Same. Eng & Contr (R & S) 64:11-18 Jl 1 '25; Same. Good Roads 68:157-61 Jl '25; Same. Can Eng 49:495-8 O 27 '25
Gravel road maintenance. C: Talbot. Eng & Contr (R & S) 61:1262-3 Je 4 '24
Gravel road maintenance in Labette county, Kansas; with cost tables. H. K. Shideler. Eng & Contr (R & S) 62:21-5 Jl 2 '24
Gravel road maintenance in Michigan. G. C. Dillman. Can Eng 46:453-4 Ap 22 '24
Gravel road maintenance in Michigan. B. C. Tiney. Munic Eng 65:230-3 N '23; Same. Eng & Contr (R & S) 60:1169-73 D 5 '23
Maintenance of gravel roads. F. D. Coppock. Eng & Contr (R & S) 60:951-3 N 7 '23
Maintenance of gravel roads. M. H. Necker. Eng & Contr (R & S) 64:992-4 N 4 '25
Maintenance of gravel roads by the use of the split log drag. diags Can Eng 45:609-10 D 25 '23
Method for maintaining gravel roads. P. D. Sargent. Can Eng 47:115-18; Discussion. 107-11 Jl 1 '24; Same. Eng & Contr (R & S) 62: 295-300 Ag 6 '24
Old gravel road surface treated with tar and topped with asphaltic concrete. G. C. Dillman. Eng & Contr (R & S) 63:449-50 Mr 4 '25
Prevention of corrugations in gravel roads carrying heavy traffic. A. H. Hinkle. Good Roads 67:77-8 S '24
Reconstruction of old gravel roads. C: C. Albright and R. E. Mills. Purdue U Eng Exp Sta Bul 9:1-15 Ja '25; Abstract. Eng & Contr (R & S) 63:1200-3 Je 3 '25
Road maintenance at night. Eng & Contr (R & S) 64:817 O 7 '25
Service tests of bituminous surface treatments on gravel roads in Washtenaw county, Michigan. A. R. Bailey. Good Roads 66:103-5 Ap '24
Surface treating gravel roads in Okmulgee county, Oklahoma. J. E. William. il Eng & Contr (R & S) 61:1021 My 7 '24
Tar surface treatment of gravel roads. N. M. Isabella. Pub Roads 6:40-1 Ap '25; Same. Eng & Contr (R & S) 64:789-90 O 7 '25
Tar surface treatments preserve gravel roads. J. T. Donaghey. il Eng N 92:70-3 Ja 10 '24
Tar treatment of gravel roads. F. L. Betts. il Eng & Contr (R & S) 63:993-8 My 6 '25
Utilizing the salvage value of old road surfaces. A. H. Hinkle. Munic & Co Eng 68:22-32 Ja '25; Excerpts. Eng & Contr (R & S) 63:447-9, 709-11 Mr 4, Ap 1 '25

Testing

Natural vibration period of tires is cause of corrugations. R. J. Walker. Eng N 94:776-7 My 7 '25

ROADS, Hillside
One-way hillside roads. Eng & Contr (R & S) 64:2 Jl 1 '25
Protecting West Virginia highways from sliding hill damage. il Eng N 94:30 Ja 1 '25

ROADS, Macadamized
Asphalt macadam construction with trailers and tractor. W. C. Patrick. il Eng N 92: 76-7 Ja 10 '24
Macadam type of road surface bound with aluminous cement. H. C. Badder. il Concrete 27:20-1 Jl '25
Penetration and surface treated macadam roads. K. I. Sawyer. Eng & Contr (R & S) 60:1187-9 D 5 '23

Maintenance and repair

Bituminous paving mixtures for resurfacing old macadam roads. D. M. Hepburn. Can Eng 49:363-5; Discussion. J. A. Lalonde. 365 S 29 '25
Machine maintenance of macadam, Monroe county, Mich. il Eng N 95:681-2 O 22 '25
Saving old stone roads by resurfacing. H. F. Harris. Can Eng 48:345-6 Mr 24 '25
Use of rock asphalt in maintenance. J: S. Dawson. Eng & Contr (R & S) 61:1026 My 7 '24

ROADS, Military
Rapidly constructed military road. S. B. Moore. il diag Eng & Contr (R & S) 64:1008 N 4 '25

ROADS, Mountain. See Mountain roads

ROADS, Oiled
Experimental oiled roads in Illinois. H. F. Clemmer and F. L. Sperry. il Eng & Contr (R & S) 61:497-502 Mr 5 '24; Abstract. Eng N 92:446-7 Mr 13 '24
Oiled earth roads in Illinois. J. H. Reed. il Munic Eng 66:141-3 Mr '24
Oiled earth roads on Long Island. A. T. Goldbeck. il Pub Roads 5:21-2 S '24
Oiled roads of Long Island. C: E. Murphy. il Eng & Contr (R & S) 62:739-41 O 1 '24
Oiled sub-base for gravel surfacing. B. H. Piepmeier. Eng N 94:33 Ja 1 '25
Oiling of earth roads. W. M. Wilson. Ill U Eng Exp Sta Circ 11:1-27 '24; Excerpts. Eng N 93:220 Ag 7 '24; Eng & Contr (R & S) 62:328 Ag 6 '24; Munic & Co Eng 67:122-3 S '24
Surface treating shell road in Chatham county, Georgia. J. B. Elliott. il Eng & Contr (R & S) 62:33-4 Jl 2 '24; Same. Manuf Rec 86:113 Jl 3 '24

ROADS, Plank
Timber road of portable sections laid on California desert. il diags Eng N 94:20-1 Ja 1 '25; Eng & Contr (R & S) 62:1204 D 3 '24

ROADS, Roman
Roman roads. Eng & Contr (R & S) 63:1229 Je 3 '25

ROADS, Sand-asphalt. See Roads, Asphalt

ROADS, Shell
Surface treating shell road in Chatham county, Georgia. J. B. Elliott. il Eng & Contr (R & S) 62:33-4 Jl 2 '24; Same. Manuf Rec 86:113 Jl 3 '24

ROADS, Stone

See Roads, Granite

ROADS, Tarred
Consistency of road tars. D. C. Broome. Soc Chem Ind J 43:25-7 F 8 '24
Refined tar in highway construction. J: S. Crandell. il Can Eng 47:161-3 Jl 15 '24; Same cond. Eng & Contr (R & S) 62:315-20 Ag 6 '24
Tar surface treated gravel roads. A. H. Hinkle. Eng & Contr (R & S) 63:447-9 Mr 4 '25
Tar surface treatment of gravel roads. N. M. Isabella. Pub Roads 6:40-1 Ap '25; Same. Eng & Contr (R & S) 64:789-90 O 7 '25
Tar surface treatments preserve gravel roads. J. T. Donaghey. il Eng N 92:70-3 Ja 10 '24
Tar treatment of gravel roads. F. L. Betts. il Eng & Contr (R & S) 63:993-8 My 6 '25
Treatment of old tar roads. C. H. Lawrence. il Eng & Contr (R & S) 63:485-6 Mr 4 '25

ROADS, Township
Importance of township roads. W. Boughner. Can Eng 46:323-4 Mr 11 '24
Township road improvement. H. Grinsted. Can Eng 48:504 My 19 '25

ROADSIDE markets. See Markets, Roadside

ROADSIDE planting
Protecting the highways with roadside planting. il Good Roads 68:187+ Ag '25
Roadside planting. J. Jensen. Eng & Contr (R & S) 61:1002, 1259 My 7, Je 4 '24
Roadside planting on Pennsylvania highways. Munic & Co Eng 67:158-9 S '24
Selection of roadside trees. J. Jensen. Eng & Contr (R & S) 62:31-2 Jl 2 '24

ROADSIDE water supply. See Water supply, Roadside

ROBERTS, George E.
Swatter of economic follies. R. A. Lewis, jr. Am Bankers Assn J 17:73-4+ Ag '24

ROBINSON, Henry Mauris
Banker who measures up to ten-fifths size. B. C. Forbes. por Forbes 13:380-2+ Ja 5 '24
A paymaster of reparations. E. L. James. por Am Bankers Assn J 16:707-9 My '24

ROCHEDALE system
Twenty-eight weavers and their billion-dollar idea. Ptr Ink M 8:118+ My '24

ROCHELLE salt. See Potassium sodium tartrate

ROCHESTER, Minnesota

Water supply
New tower for water tank houses pumps at Rochester, Minn. il diag Eng N 95:338-9 Ag 27 '25

ROCHESTER, New York
Making Rochester's assessment maps. Pub Works 56:208-9 Je '25
Putting over a successful campaign in Rochester. Sales Management 7:1911-12+ D '24
Zoning for use. E. A. Fisher. Am Soc C E Pro 51:165-71 F '25
See also Eastman theatre and school of music

Rapid transit
Construction methods on the Rochester subway. il diags plan Eng N 92:350-4 F 28 '24
Rochester lines $51,138 below return. Elec Ry J 64:1093 D 27 '24
Rochester trackless trolley construction. il Elec Ry J 64:11-13 Jl 5 '24

Water supply
Sodium iodide treatment of Rochester's water supply. B. C. Little. Am Water Works Assn J 12:68-73 S '24; Same. Eng & Contr (W W) 61:1279-81 Je 11 '24; Discussion. Am Water Works Assn J 12:73-86 S '24
Sources of supply, conduits and reservoirs, of the Rochester, N.Y., water-works system. J: F. Skinner. il N E Water Works Assn J 38:219-25 S '24

ROCK drills
Care and use of rock drills. Eng & Min J 118: 699-700, 1019-20 N 1, D 27 '24
Construction equipment—past and present. il Eng N 92:745-7 Ap 24 '24
Don'ts for rock drill operators. Eng & Contr (G C) 64:438 Ag 19 '25
Drilling deep holes with hammer drills and sectional drill rods. H. R. Drullard. il diags Eng & Min J 117:384-6 Mr 1 '24
DU-48 rotating water stoper. il Eng & Min J 119:784 My 9 '25
Elektropneumatische gesteinsbohrmaschine. il diag Elektrotech Zeit 46:1588-9 O 15 '25
Experimenting with detachable bits at Anyox, B.C. W: J. Coulter. il Eng & Min J 119: 530-2 Mr 28 '25
Gesteinsbohrstahl. R. Hohage. il Stahl & Eisen 45:992-5 Je 18 '25; Abstract (Rock drills). Engineer 140:sup132-4 S 25 '25
How to keep rock drills on the job and out of the repair shop. E. H. Paull. il diags Coal Age 25:253 F 14 '24
Keeping the rock drill fit. diag Coal Age 25: 221 F 7 '24; Same. Eng & Contr (Ry) 61: 1358-9 Je 18 '24
Making and repairing rock-drill water tubes. W: J. Coulter. il Eng & Min J 120:60 Jl 11 '25
Novel hammer for drilling rock. il Eng & Contr (G C) 64:884 O 21 '25
Removing submarine rock with jack hammers. W. L. Kuehnle. chart diag Eng & Contr (W W) 60:1035-7 N 14 '23
Rock drilling equipment in new lines announced by the Gilman manufacturing company of East Boston, Mass. il Eng & Min J 119:265-6 F 7 '25
Rock drilling under water. il Pub Works 55: 119 Ap '24
Rock drills and drill steel discussed at San Francisco meeting. H. L. Terwilliger. Eng & Min J 116:1128 D 29 '23
Rock drills for structural work. F. A. McLean. Eng & Contr (Bldgs) 60:1349-51 D 26 '23
Sharpening drill steel. W. R. Wade. Min Cong J 11:166-7 Ap '25
Suggestions to the rock driller. E. R. Borcherdt and H. D. Sultzer. Eng & Min J 117:965 Je 14 '24
Trouble shooting and rock drills. Eng & Min J 117:648-9 Ap 19 '24
Water connections for rock drills. H. V. Haight. diags Eng & Min J 119:62 Ja 10 '25
See also Drilling and boring (earth and rocks); Mining machinery

Advertising
Spending the most money to keep old friends; Ingersoll-Rand instruction literature. J. H. Collins. il Ptr Ink M 10:27-8+ F '25

Lubrication
J-C automatic line oiler reduces rock drill upkeep. il Eng & Contr (Equip R) 64:748 S 30 '25

Manufacture
Machine forging dies. C. C. Hermann. il Mach 31:433-4 F '25
Manufacturing the Waugh rock drill. J. C. Briggs. il Am Mach 61:241-4 Ag 7 '24

Standards
Standardization of drill steel. F. Ayer. il Min Cong J 11:163-4+ Ap '25
Standardization of drilling machines and drill steel. R. T. Murrill. Min Cong J 10:178-80 Ap '24
Standardization of drilling machines and drill steel. C. B. Officer. Min Cong J 10:181-2 Ap '24

ROCK dust
Commenced rock dusting six years ago. A. W. Dickinson. Coal Age 26:164 Jl 31 '24
Engineers of Western Penna. comment on rock dust. Coal Age 26:799 D 4 '24
High-pressure rock dusting in Utah coal mines. Coal Age 26:873 D 18 '24
How Old Ben corporation with rock dust extinguished seven mine explosions. J. E. Jones. il diags Coal Age 25:907-11 Je 19 '24; Same. Min Cong J 10:291-3 Jl '24
Illinois mining institute discusses machine loading and rock dusting. Coal Age 28:83-5 Jl 16 '25
Investigations into rock dusting for coal dust explosion prevention. G: S. Rice. Min Cong J 10:295-6 Jl '24
Methods of rock dusting bituminous mines. E: Steidle. il Coal Age 26:825-9; 27:6-10 D 11 '24, Ja 1 '25; Discussion. 26:823-4 D 11 '24
Modern methods are used in making rock dust on a large scale at Old Ben no. 9 mine. il Coal Age 26:505 O 9 '24
Planning an efficient rock pulverizing unit. L. H. Sturtevant. il diags Coal Age 26:647-9 N 6 '24
Production and use of rock dust. R. Reddie. il diags Min Cong J 11:547-53+ N '25
Proposed national code for rock-dusting coal mines. il Nat Safety N 11:21-2 Ap '25
Right kind of rock dust is harmless. Coal Age 25:808 My 29 '24
Rock dust as a preventive measure against explosions in coal mines. E: Steidle. Safety Eng 49:12-16 Ja '25
Rock-dust barriers have important part to play in protection of soft coal mines. G: S. Rice. il Coal Age 28:39-42 Jl 9 '25

ROCK dust—*Continued*
Rock dust no cure-all, say Western engineers. E. W. Davidson and A. F. Brosky. il diag Coal Age 26:783-8 D 4 '24; Discussion. G: S. Rice. 27:301-2 F 19 '25
Rock dust now used in 62 Pennsylvania mines. Coal Age 28:283 Ag 27 '25
Rock dust versus water as a preventive measure for mine explosions. E: Steidle. Min Cong J 10:298+ Jl '24
Rock dusting and prevention of coal mine explosions. Min Cong J 10:222-3 My '24
Rock dusting as discussed at Cincinnati. il Min Cong J 11:380-7 Ag '25
Rock-dusting costs and practices. il Coal Age 27:832-3 Je 4 '25
Rock dusting discussed at meeting of West Virginia coal mining institute. J. H. Edwards. Coal Age 26:835-6 D 11 '24
Rock dusting in coal mines. T: J. Fear. il Nat Safety N 10:25-6 Ag '24
Rock dusting of bituminous coal-mines. T: G. Fear. Eng Soc W Pa 41:15-20; Discussion. 21-31 F '25
Rock dusting of coal mines: efficacy, methods and costs. J: T. Ryan. Min Cong J 10:297+ Jl '24; Excerpt. Coal Age 25:700 My 8 '24
Rock dusting practice of the Pittsburgh coal company. U. U. Carr. il Min Cong J 11: 224-5+ My '25
Sampling of rock dust is necessary to safety. W. C. Holman. il Coal Age 27:184-5 Ja 29 '25
Shale dusting now spreading rapidly in Illinois. il diags plan Coal Age 25:683-8 My 8 '24
Should we be content with ten per cent of rock dust in our mines? J: Walls. Coal Age 26:197 Ag 7 '24; Discussion. G: S. Rice. Coal Age 26:342 S 4 '24
Sources of limestone, gypsum, and anhydrite for dusting coal mines to prevent explosions. O. Bowles. U S Bur Mines Bul 247:1-68, pl 1-15 '25
Sprinkling at face, rock dusting on entries is Harrington's program for all mines. D. Harrington. il Coal Age 27:715-18 My 14 '25
Stone dusting: a means of safety which helps Britain to keep fatality rate one-third as large as ours. J. A. S. Ritson. il diag Coal Age 25:663-8 My 8 '24
Stone dusting or rock dusting to prevent coal-dust explosions, as practiced in Great Britain and France. G: S. Rice. U S Bur Mines Bul 225:1-54 '24
Tentative specifications for rock dusting to prevent coal-dust explosions in mines. G: S. Rice, J. W. Paul and R. R. Sayers. U S Bur Mines Rep of Invest 2606:1-6 My '24 (typew); Same. Coal Age 25:876-8 Je 12 '24
This rock-dust barrier fits odd places. il Coal Age 26:302 Ag 28 '24
Twenty companies in Midwest and West rock dust four hundred miles of entry. E. W. Davidson. il Coal Age 27:71-3 Ja 15 '25
Use of rock dust more dependable and less costly than sprinkling. Coal Age 25:842 Je 5 '24
Using rock dust in shotholes to lessen violence and increase lump coal. J. H. Horlick, jr. Coal Age 25:805-6 My 29 '24
West tries everything in rock dusting. D. Harrington. il Coal Age 28:310-12 S 3 '25
What will it cost and what must be done to keep coal mines free from dust explosions? Coal Age 25:769 My 22 '24
Will rock dusting suffer by industry's enthusiasm? J. E. Jones. il diag Coal Age 27:570-2 Ap 16 '25

ROCK-dusting machines
Combined grinder and duster saves time and money. diag Coal Age 28:687-8 N 12 '25
Machine in Royal mine makes dust and distributes it. S: Tescher. diags plan Coal Age 26:756 N 27 '24
Pittsburgh coal co. evolves dust distributor. A. F. Brosky. il Coal Age 26:865-7 D 18 '24
Rock dust for mine protection, fire fighting, shot stemming and cushioning. E: Steidle. il Coal Age 27:6-10 Ja 1 '25
Rock-dusting machine with three fixed outlets treats roof and ribs. il Coal Age 26:127-8 Jl 24 '24
Rockies are full of ingenious dusting machines. il Coal Age 26:427-30 S 25 '24
Will rock dusting suffer by industry's enthusiasm? J. E. Jones. il diag Coal Age 27:570-2 Ap 16 '25

ROCK ISLAND, Illinois

Theaters
Use of Indian motifs in theater decoration. M. A. Rolfe. il Arch Forum 42:391-2, pl 69-70 Je '25

ROCK ISLAND railway. See Chicago, Rock Island & Pacific railway

ROCKETS
Could Professor Goddard's moon rocket fly at all through empty space? Sci Am 132:50 Ja '25
Is radio earthbound? Prof. Goddard's proposed moon rocket which will contain a radio transmitter. D. C. Wilkerson. il Radio N 6:1629+ Mr '25

ROCKFORD, Illinois
Engineering in the small city. chart Eng N 95:587-8 O 8 '25

Rapid transit
Rockford company wins election. L. St Clair. Aera 13:1716-19 My '25

ROCKPORT, Massachusetts

Water supply
Copper sulphate treatment of Cape Pond, the source of water supply for Rockport, Mass. E. S. Chase. il N E Water Works Assn J 38:48-60 Mr '24; Same cond. Eng & Contr (W W) 61:577-83 Mr 12 '24; Discussion. N E Water Works Assn J 38:60-2 Mr '24

ROCKS
Contributions to the geography of the United States, 1923; pedestal rocks in the arid Southwest. K. Bryan. U S Geol S Bul 760—A:1-11, pl 1-5 '23
Desert varnish. C: H: White. Am J Sci 5th ser 7:413-20 My '24
Introduction to sedimentary petrology. H. B. Milner. 125p Van Nostrand '22
Leçons de pétrographie. J. de Lapparent. 501p Masson et c^ie, Paris '23
Method of preparing thin sections of friable rock. C. S. Ross. Am J Sci 5th ser 7:483-5 Je '24
Natural and artificial permanent magnetization of rocks. F. Loewinson-Lessing and V. Mitkewitch. J Fr Inst 199:844 Je '25
Origin of the foliation and the naming of syntectic rocks. H. L. Alling. il Am J Sci 5th ser 8:12-32 Jl '24
Pedestal rocks. K. Bryan. il diag Eng & Min J 119:172-3 Ja 24 '25
Pedestal rocks in stream channels. K. Bryan. U S Geol S Bul 760—D:123-8, pl 31-2 '25
Permeability of rocks. T. Dahlblom. Econ Geol 19:389-92 Je '24
Petrographic methods and calculations. A. Holmes. 3v Thomas Murby & co., London '23
Radioactivity of basalts and other rocks. J. H. J. Poole. Philos Mag 6th ser 48:819-32 N '24
Radioactivity of the rocks. J: Joly. il Chem Soc J 125:897-907 Ap '24
Richmond rocks of Iowa and Illinois. T. E. Savage. Am J Sci 5th ser 8:411-27 N '24
Rôle of heavy minerals in the Coalinga tertiary formations. R. D. Reed. diags Econ Geol 19:730-49 D '24
Sands and crushed rocks. A. B. Searle. 2v Oxford '23
Silicification of erosion surfaces. C. K. Leith. Econ Geol 20:513-23 S '25

ROCKS—*Continued*
Thermal conductivity and compressibility of several rocks under high pressures. P. W. Bridgman. bibliog diag Am J Sci 5th ser 7: 81-102 F '24

See also Conglomerate; Continental shelf; Crystallography; Geochemistry; Geology; Granite; Laterite; Lava; Leucites; Leverrierite; Limestone; Melitite; Mineralogy; Sandstone; Schists; Shale; Slate; Soapstone; Stone

ROCKS, Igneous
Almaden mercury ores and their connection with igneous rocks. R. W. Van der Veen. il Econ Geol 19:146-56 Mr '24
Contribution to the igneous geology of central Colorado. R. D. Crawford. map Am J Sci 5th ser 7:365-88 My '24
Contributions to the geology of Maine; the igneous rock of Mt Kineo and vicinity. E: S. C. Smith. map Am J Sci 5th ser 10:437-44 N '25
Fen area in Telemark, Norway. N. L. Bowen. Am J Sci 5th ser 8:1-11, pl 1-3 Jl '24
New occurrence of an igneous dike in southwestern Pennsylvania. A. P. Honess and C. K. Graeber. Am J Sci 5th ser 7:313-15 Ap '24
Proposed classification of igneous rocks. E. T. Hodge. Oregon U Pub v 2:1-72 [bibliog. p. 69] N '24
Volcanic rocks in the Upper Cretaceous of southwestern Arkansas and southeastern Oklahoma. H. D. Miser and C. S. Ross. Am J Sci 5th ser 9:113-26 F '25

See also Batholiths; Diabase; Gabbro; Granite; Laccolith; Lava; Ore deposits; Pegmatite; Syenite

ROCKSALT. See Salt

ROCKY Mountain coal mining institute
Meeting, 20th, Denver, Colo., Feb. 16-18. Coal Age 27:358-63 Mr 5 '25
Summer session, Rock Springs, Wyoming. Coal Age 26:227-9, 258-60 Ag 14-21 '24
Summer meeting, Price, Utah, Aug. 26-28. R. D. Hall. Coal Age 28:307-9 S 3 '25

ROCKY Mountain electrical cooperative league
Annual convention, 4th, Salt Lake City, April 4. J Elec 54:296 Ap 15 '25

ROCKY Mountain oil and gas producers association
Annual convention, 3d, Casper, Wyo., Dec. 2-3. A. J. Hazlett. Nat Pet N 16:32A-B+ D 10 '24

ROCKY Mountain region
See Floods—Rocky Mountain region; Petroleum—Rocky Mountain region

ROD mills. See Rolling mills

ROD mills (crushing). See Tube mills

RODS
Manufacture
Extrusion of brass rod by the inverted process. R. Genders. il diag plan Engineering 118:387-90 S 12 '24; Same cond. Am Mach 61:845-6 N 27 '24; Conclusions. Brass W 20: 351-2 O '24; Metal Ind 22:401 O '24

ROEBLING, John A.
Roebling bridge. Am Soc C E Pro 51:[Soc aff] 259-60 Ag '25; Same. Eng & Contr (Bldgs) 64:962-3 O 28 '25

ROEBLING'S, John A., sons company
Industrial village on sound basis; home of the Kinkora works. il plan Iron Age 113:9-14 Ja 3 '24

ROGERS, Henry H.
Rogers alone built great road. R. R. Batson. Am Ind 25:20 Je '25

ROGERS, John, 1829-1904
Famous machinists of history. H. H. Manchester. Am Mach 62:237 F 5 '25

ROGERS, Will
Will Rogers gives testimonial copy a new twist. Ptr Ink 130:33-4 F 12 '25

ROGERS, Brown and Crocker bros., inc.
Merger revives iron history. Iron Tr R 77: 8-9 Jl 2 '25

ROGERS Peet company
Ro-Pe-Co magazine. C. G. Bigelow. il Ptd Salesmanship 45:391-2 Je '25

ROGERS bills. See Textile laws and regulations; United States—Diplomatic and consular service

ROLL paper. See Paper rolls

ROLLER bearings
Advanced practice in anti-friction bearings. P. B. Liebermann. Am Mach 60:533-4 Ap 10 '24; Excerpts. Iron Age 113:850 Mr 20 '24
Anti-friction bearing applications for heavy duty; abstracts. J. B. Dahlerus. diags Engineering 119:208-10, 239-40 F 13-20 '25; Engineer 139:197-8 F 13 '25; Elec R (Lond) 96: 592-3 Ap 10 '25; Discussion. Engineering 119:184-6, 260, 267-9 F 13, 27 '25; Engineer 139:180, 237, 434 F 13, 27, Ap 17 '25
Anti-friction bearings for electric motors. C. H. S. Tupholme. diags Elec R (Lond) 96: 447-8, 509-10 Mr 20-27 '25
Anti-friction bearings lower transportation costs from face to railroad car. F. H. Kneeland. il diags Coal Age 25:603-6 Ap 24 '24
Belt conveyor idlers with roller bearings. il Chem & Met Eng 31:863-4 D 1 '24
Changes in Timken bearings improve design and production. H. Chase. il diags Automotive Ind 53:420-1 S 10 '25
Chicago surface lines trying roller bearings. il Elec Ry J 64:766 N 1 '24
Comparaison des paliers à billes et à rouleaux; applications au matériel des chemins de fer. A. Bijls. diags Génie Civil 84:159-61 F 16 '24
Designs used and proposed for mounting connecting rod head roller bearings. diags Automotive Ind 51:964-5 D 4 '24
Distribution of load on the balls and rollers of ball and roller bearings. J: Goodman. diags Engineering 119:753-5 Je 19 '25
Do ball and roller bearings justify their cost? H. Maxwell. il Ind Eng 83:12-16 Ja '25; Same. W Soc E J 30:1-5 Ja '25; Discussion. Ind Eng 83:16-18 Ja '25; W Soc E J 30:11-12 Ja '25
Handbook on ball and roller bearings. A. W. Macaulay. 378p Pitman '24
Hoffman roller bearings in paper making machinery. D. E. Batesole. Tech Assn Pa ser 7:86 Je '24; Same. Paper Tr J 78:201 Ap 10 '24
Improved Timken bearing. il Eng & Contr (Equip R) 64:727 S 30 '25; Eng & Min J 120: 514 S 26 '25; Am Mach 63:565 O 1 '25; Mach 32:161-2 O '25; Textile World 68:2059 O 3 '25
Neue walzenlagerungen. D. C. Holzweiler. il diags Stahl & Eisen 44:425-30 Ap 17 '24; Abstract (New types of bearings for rolling mills). il diags Iron Age 114:442-3 Ag 21 '24
Normung von achsbuchsen mit rollenlagern von schienenfahrzeugen. O. R. Wikander. diags Zeit Ver Deutsch Ing 68:474-5 My 10 '24
Operation of anti-friction bearings on crankpin analyzed. J. Kirner. diags Automotive Ind 53:738-44 O 29 '25
Possible improvements in bearing service. G. A. Van Brunt. Ind Eng 82:264-6; Discussion. 266-70+ Je '24
Progress in anti-friction bearings. K. Pforte. diag Elec Ry J 64:774-5 N 1 '24
Reducing open hearth car upkeep. C. L. Newby. il Blast F & Steel Pl 12:331-3 Jl '24
Repairing a skewed and displaced bridge roller bearing. C: F. Draper. il diag Eng N 92:810 My 8 '24
Roller bearing applications to industrial uses. A. H. Williams. W Soc E J 30:9-11 Ja '25
Roller bearing oil engine. il diag Engineer 137: 92-4 Ja 25 '24
Roller bearing service in mill-type motors. L. J. Hess. il Ind Eng 82:164-8 Ap '24
Roller bearings facilitate speed. D. E. Batesole. il Iron Tr R 75:164-6 Jl 17 '24
Roller bearings feature new Allis-Chalmers induction motors. il Eng & Min J 120:515 S 26 '25
Roller bearings for electric cars in Germany. diag Elec Ry J 64:317 Ag 30 '24
Roller bearings for heavy loads. Engineer 139:243-5, 295 F 27, Mr 13 '25

ROLLER bearings—*Continued*
Roller bearings in rolling. A. W. Macaulay. Iron Age 112:1312-13 N 15 '23
Roller bearings on ingot buggies. Blast F & Steel Pl 13:460 N '25
Roller hanger bearing. il Chem & Met Eng 31:391 S 8 '24
Selection of ball and roller bearings for electrical machines. T. D. Trees. bibliog Inst E E J 62:782-90 S '24; Abstract. Electrician 93:496+ O 31 '24; Discussion. Inst E E J 63:679-86 Jl '25
Swedish N. K. A. disk and ball bearings of high carrying capacity introduced here. il diags Automotive Ind 51:918-19 N 27 '24; Am Mach 61:864 N 27 '24; Iron Age 114:1610 D 18 '24; Mach 31:318 D '24; Bus Transportation 4:89+ F '25
Taper roller bearings. il diags Automobile Eng 14:196-7 Jl '24
Timken roller bearing protects good-will in court. Ptr Ink 126:53-4 Ja 3 '24
Truck and bearing practice. C. Harmel. Elec Ry J 64:319-20 Ag 30 '24

See also Bearings; Disk bearings; *also* Timken roller bearing company

Advertising

Hyatt's industrial advertising plan. P. C. Gunion. Ptr Ink 128:107-8+ Jl 17 '24

Manufacture

Heat treatment of ball and roller bearings. J. K. Wood. diag Am Mach 61:929-31 D 11 '24
Hyatt methods of material handling. H. J. Forsythe. il diags plan Management & Adm 10:137-40 S '25
Making steel tubes for roller bearings. F. L. Prentiss. flow sheet il diag plan Iron Age 114:1463-9 D 4 '24
Manufacture of tapered roller bearings. M. T. Lothrop. il diag Am Mach 61:803-7, 833-7 N 20-27 '24

Testing

Comparison of ball and roller bearings with plain bearings by means of electrical tests on a spinning mule. W. E. Baker. il diags plan Textile Inst J 16:T290-304 S '25

ROLLER chains. See Chain gear

ROLLERS, Printers'
Getting the most out of printers' rollers. R. F. Salade. Inland Ptr 74:866-8 Mr '25
Rollers and the summer season. A. B. Carty. Inland Ptr 75:582 Jl '25
Rubber printers' rollers. il India Rubber W 69:221-2 Ja '24

Manufacture

Deep-hole drilling in large lathe. il Iron Age 113:419-21 F 7 '24

ROLLERS, Road. See Road rollers

ROLLING (metal work)
Acme steel goods co. extends cold strip making facilities. E. C. Boehringer. il plan Iron Tr R 74:359-62 Ja 31 '24
Das breiten beim walzen. W. Tafel and H. Sedlaczek. Stahl & Eisen 45:190-3 F 5 '25; Same (Calculating spread in rolling). Iron Tr R 76:693-5 Mr 12 '25
Effect of hot-rolling conditions on the physical properties of a carbon steel. J: R. Freeman, jr. and A. T. Derry. il diags U S Bur Stand Tech Pa 267:547-66 '24
Formungsvorgänge beim rundwalzen von stahl mit wechselndem kohlenstoffgehalt. O. Emicke and M. Rodenbach. il Stahl & Eisen 44:1679-81 D 18 '24
Füllung der walzkaliber. W. Tafel and H. Weiss. diags Stahl & Eisen 44:1243-5 O 9 '24
Das greifen von walzen bei veränderlicher walzgeschwindigkeit. W. Tafel and E. Schneider. diags Stahl & Eisen 44:305-9 Mr 20 '24
Hollow balls made from strips and tubing. il Iron Age 114:1544-5 D 11 '24; Automotive Ind 52:629 Ap 2 '25
Hot strip capacity is augmented; new mill at Leechburg, Pa. il Iron Tr R 73:1609-11 D 13 '23
Kräfte und materialfluss bei der bildsamen formänderung. E. Siebel. diags Stahl & Eisen 45:1563-6 S 10 '25
Loose rolling gains favor among sheetmakers. J: D. Knox. il plan Iron Tr R 75:1706-11+ D 25 '24
Rerolling old railroad rails into rods. A. Noell. diags Iron Age 113:866-9 Mr 20 '24
Rolling refines grain structure. W. J. Crook. il Iron Tr R 75:1365-9 N 20 '24
Some details of the Holbol process. il Blast F & Steel Pl 13:137+ Mr '25
Surface cracks in rolling steel. H: D. Hibbard. Iron Age 115:1837+; 116:77+ Je 25, Jl 9 '25
Theory and practice of rolling steel. W. Tafel. il diags Iron Tr R 77:677-9, 739-41, 824-5, 964-6, 1033-6, 1143-6 S 17-O 1, 15-22, N 5 '25
Tolerances in the rolling of steel sheets. Iron Age 113:497-9 F 14 '24
Tubing made from strip stock. C: O. Herb. il diag Mach 31:602-5 Ap '25
Über das wesen der plastischen verformung. H. Hencky. Zeit Ver Deutsch Ing 69:1253-4 S 26 '25
Ueber die materialverschiebung beim walzen. G: Gredt. il Stahl & Eisen 43:1443-9 N 22 '23
Vergleichende zug-, druck-, dreh- und walzversuche. P. Ludwik and R. Scheu. Stahl & Eisen 45:373-81 Mr 12 '25
Zeitstudien und kraftverbrauchsmessungen im walzwerk. G. Bulle. Stahl & Eisen 44: 937-40; Discussion. 940-1 Ag 7 '24
Zur frage der bildsamen formänderung. H. Preussler. diags Stahl & Eisen 45:1422-8 Ag 20 '25

ROLLING doors. See Doors, Rolling

ROLLING mills
Acme steel expands cold strip capacity. G. L. Lacher. il plan Iron Age 113:353-8 Ja 31 '24
Acme steel goods co. extends cold strip making facilities. E. C. Boehringer. il plan Iron Tr R 74:359-62 Ja 31 '24
Blooming mills and blooming mill practice; abstracts. W. H. Bailey. Iron Tr R 76:1390-1, 1454-5 My 28-Je 4 '25; Iron Age 115:1707; 116:6-7, 146-7, 271+, 1739-45 Je 11, Jl 2, 16, 30, D 24 '25; Discussion. 115:1555-6 My 28 '25; Iron Tr R 77:192-3 Jl 23 '25
Build sheet mill at Golden Gate. il Iron Tr R 74:1373-5 My 22 '24
China's second rolling mill. H. C. Fleming. Blast F & Steel Pl 12:187+ Ap '24
Continuous cleaning of strip steel. il diags Iron Age 113:1358-9 My 8 '24
Continuous rolling-mills; their growth and development. J. P. Bedson. diags plans Iron & Steel Inst J 109:43-60, pl 1-2 no 1 '24; Same cond. Engineering 117:620-2 My 9 '24; Abstracts. Engineer 137:536 My 16 '24; Iron Age 113:1493-5 My 22 '24; Discussion. Iron & Steel Inst J 109:61-6 no 1 '24; Engineering 117:631 My 16 '24; Iron Age 113:1491-3 My 22 '24
Copper wire rod rolling mill at Brockville. il Can Eng 47:411-15 O 14 '24
Eight-inch merchant bar mill of the Donner steel co. at Buffalo. il plans Iron Age 116: 201-4 Jl 23 '25
Enlarges semifinishing capacity of the United alloy steel corp., Canton, O. J: D. Knox. il diag Iron Tr R 75:1431-3, 1493-6+ N 27-D 4 '24
Expanding from kitchen ware to ingots; latest additions to Granite City works of National enameling & stamping co. G. L. Lacher. il diag plan Iron Age 113:773-8 Mr 13 '24
Das feinblechwalzwerk der firma Titan in Galatz. W. Krämer. diags Stahl & Eisen 44: 1491-4 N 20 '24
Hot strip capacity is augmented; new mill at Leechburg, Pa. il Iron Tr R 73:1609-11 D 13 '23
Improves rail and track supply plant; the Colorado fuel and iron co., Pueblo, Colo. G. L. Lacher. il Iron Age 114:495-9 Ag 28 '24

ROLLING mills—*Continued*
Increase mill capacity in 1923. J: D. Knox. Iron Tr R 74:50-3 Ja 3 '24
Interest centers on rolling practice. il Iron Tr R 74:19-20 Ja 3 '24
Joins ranks of strip producers; the Otis steel co., Cleveland. J: D. Knox. il plan Iron Tr R 75:1165-71 O 30 '24
Making seamless steel tubes by improved processes. E. F. Ross. il diags plan Iron Tr R 77:1079-83+ O 29 '25
Making sheets at Granite City in new mill of National enameling and stamping co. E. C. Boehringer. il Iron Tr R 73:1363-6 N 15 '23
Making steel tubes for roller bearings. F. L. Prentiss. flow sheet il diag plan Iron Age 114:1463-9 D 4 '24
Manufacturing seamless steel tubing. E. R. Kelso. il diags Iron Age 113:57-60, 159-62 Ja 3-10 '24
Die maschinellen einrichtungen der eisenhüttenwerke. H. Hoff. il diags Zeit Ver Deutsch Ing 69:1184-8 S 12 '25
Most modern sheet mill; National enameling & stamping company's mill at Granite City. E. H. Werner. il plan Blast F & Steel Pl 12:63-8 Ja '24
Neue walzenlagerungen. D. C. Holzweiler. il diags Stahl & Eisen 44:425-30 Ap 17 '24; Abstract (New types of bearings for rolling mills). il diags Iron Age 114:442-3 Ag 21 '24
New billet and strip mills at Bridgeport. plan Iron Age 114:504-5 Ag 28 '24
New blooming mill in France erected in the works of the Société des aciéries de Longwy. il diag Iron Tr R 74:1046-7 Ap 17 '24
New butt weld mills at Indiana Harbor. il Iron Age 114:1-4 Jl 3 '24
New Inland merchant and billet mills at Indiana Harbor, Ind. G. L. Lacher. il Iron Age 114:303-7 Ag 7 '24
New plant rolling charcoal iron. il diag Iron Age 115:1486-8 My 21 '25
New rod mill for wire and cable plant; Kinkora plant, Roebling, N.J. il diag Iron Age 112:1505-7 D 6 '23
New sheet bar and hot strip mills of the Otis steel co., Cleveland. F. L. Prentiss. il Iron Age 114:1141-6 O 30 '24
Pacific sheet steel plant on Pacific coast. il plan Iron Age 113:1650-2 Je 5 '24
Plate or skelp mill; picture stories on the manufacture of wrought iron and steel pipe. Dom Eng 107:65 Je 21 '24
Progress in British rolling-mill practice. T. W. Hand. diags Iron & Steel Inst J 111:43-91, pl 1-13 no 1 '25; Same cond. Engineering 119:778-81, 782, 811-14 Je 19-26 '25; Abstracts. Engineer 139:539 My 15 '25; Iron Age 116: 213+ Jl 23 '25; Discussion. Iron & Steel Inst J 111:92-112 no 1 '25; Engineering 119:596-7 My 15 '25; Engineer 139:539 My 15 '25; Iron Age 116:254-6 Jl 23 '25
Raumsparende vorrichtungen für bandeisenwalzwerke. F. Funke. il diags Stahl & Eisen 44:823-5 Jl 10 '24
Replaces forge plant with charcoal bloomary. E. C. Kreutzberg. il Iron Tr R 76:1319-21 My 21 '25
Rolling mill in the Beech Grove shops of the Big Four. il Ry R 74:561-3 Mr 22 '24
Scotch build a new plate mill at Clydebridge. J. Horton. il plans Iron Tr R 73:1421-6 N 22 '23
Société anonyme d'Escaut et Meuse à Anzin. R. Jouassain. Soc Ing Civils Bul 77:623-44, pl 82 O '24
Southern rolling mill; Atlantic steel company, Atlanta, Ga. M. P. Lawton. il Blast F & Steel Pl 12:291-4+ Je '24
Spring steel from cold-roll strip mills. il plan Iron Age 115:399-402 F 5 '25
Steelmakers seek refinements in rolling. il Iron Tr R 76:24 Ja 1 '25
Strip mill designed for ease of control; West Leechburg steel co., Leechburg, Pa. il plan Iron Age 112:1581-3 D 13 '23
Theory and practice of rolling steel. W. Tafel. il diags Iron Tr R 77:677-9, 1143-6 S 17, N 5 '25
34-in. universal plate mill at the Clydesdale steel works. il diags Engineering 120:36-8, 93, 156-8, 159, 223-4 pl 4, 9-11 Jl 10, 24-Ag 7, 21 '25
Trend of expansion is westward. J: D. Knox. map Iron Tr R 76:60-3+ Ja 1 '25
Umbau des drahtwalzwerkes der Düsseldorfer eisen- und drahtindustrie. K. Raabe. diags Stahl & Eisen 45:41-4 Ja 8 '25
Vierwalzensystem für triowalzwerke. H. Cramer. diags Stahl & Eisen 44:1170-2 S 25 '24; Discussion. 45:799-802 My 21 '25

See also Iron industry and trade; Soaking pits; Steel industry and trade; Steel workers; Steel works

Bearings

Roll bearings for cold rolling mills. C. E. Davies. diags Engineering 118:569-71, 601, 636-7 O 24-N 7 '24; Discussion. 118:769 D 5 '24

Electric equipment

Advantages of adjustable-speed drives for rolling mills. W: B. Shirk. il diags Elec J 22:414-17 S '25
Auxiliary applications in steel mills. P. McShane. Elec J 22:434 S '25
Blooming mill has heavy drive. R. A. Fiske. il diags Iron Age 116:1019-23 O 15 '25
Changing a steel mill main roll motor drive. A. W. McAuly. il Ind Eng 82:423-7+ S '24
La commande des trains de laminoirs non réversibles par moteurs à courant triphasé. Génie Civil 87:293-4 O 3 '25
Electrically-driven rolling mills; some recent electrical developments. L. Rothera. Elec R (Lond) 96:33-4 Ja 2 '25
Electrically produced boiler plate. il Electrician 93:614-15 N 28 '24
Electrifying ten-inch merchant mill; producing cutlery steel without marketing and without reheating. M. J. Wohlgemuth and M. H. Morgan, jr. il diag plan Elec W 84: 465-8 S 6 '24
Large electrical reversing rolling mill drive. il Iron Age 113:999-1000 Ap 3 '24
Maintenance of large motors in steel mills. O. Needham. il diags Ind Eng 83:423-6+ S '25
New motor drives on sheared plate mills. W. S. Hall. il charts Elec J 21:407-8 S '24
New 20-16 in. hot strip mill. N. Jones and G. P. Wilson. il Am Inst E E J 43:710-15 Ag '24
Rolling mill adjustable-speed drives. L. A. Umansky. diags Ind Eng 82:466-7 O '24
Rolling mill equipment. W. E. Taylor and C. E. Raeburn. il Electrician 91:600-2 N 30 '23
Speed regulation of strip and bar mills. il Electrician 91:606-8 N 30 '23
Steel enclosed switching equipment for steel mill service. M. J. Wohlgemuth. il Elec J 22:417-20 S '25
Synchronous motor in steel-mill service. D. W. Dean. il diag Elec J 21:428-33 S '24
Wound-rotor induction motors and synchronous motors for rolling mill service. G. E. Stoltz. il diags Elec J 22:421-7 S '25

Employees

See Steel workers

Equipment

Automatische kühlbetten. H. Hilterhaus. il diags Stahl & Eisen 44:777-84; Discussion. 784-6 Jl 3 '24
Greater output by plant rearrangement; United alloy steel corporation, Canton, Ohio. il Iron Age 114:1663-5 D 25 '24
McKee type of mechanical hot bed. diags Iron Age 114:990-1 O 16 '24; Iron Tr R 75: 1016-17 O 16 '24
Rehabilitation of steel mills. J. M. Moore and H. M. McLain. il Elec J 21:424-7 S '24
Repeater transfers hot strip on edge. plan Iron Tr R 74:868 Mr 27 '24

See also Grinding machines; Manipulators, Ingot

ROLLING mills—*Continued*

Gearing

Frictional drive for the top roll of a balanced roughing mill. il Iron Tr R 74:1565 Je 12 '24; Iron Age 113:1659 Je 5 '24

Layout

American tube and stamping company rounds cut semifinishing equipment. plan Iron Tr R 75:672+ S 11 '24

Lubrication

Lubrication in steel and cement mills. J. A. Marland. W Soc E J 30:254-9 Je '25; Same Concrete (cement mill sec) 27:39-40 Ag '25
Lubrication in the steel industry. A. F. Brewer. Iron Age 114:434-7 Ag 21 '24

Power

Bar mill and structural mill electrification of the Phoenix iron company. J. S. Erichson. il plans Elec J 21:403-7 S '24
British rolling mill engine design. F. Johnstone-Taylor. il diags Iron Age 113:1717-19 Je 12 '24
Giant uniflow engine for steel mill drive. il diag Power 62:122-5 Jl 28 '25
Motorizing structural mill at Homestead. S. S. Wales. il diags Blast F & Steel Pl 12:38-42 Ja '24
Power consumed in rolling steel. G. Fox. Iron Tr R 74:1431-3 My 29 '24; Same cond. Iron Age 113:1564-5 My 29 '24
Problems of steel mill operation. A. J. Whitcomb. il Ind Eng 82:408-16+; 83:406-14+ S '24, S '25
Rolling mill electric operation. Iron Age 115: 488-9 F 12 '25
Zeitstudien und kraftverbrauchsmessungen in walzwerk. G. Bulle. Stahl & Eisen 44:937-40; Discussion. 940-1 Ag 7 '24

Repair

Using the arc weld for mill repairs; abstracts. R. L. Scollard. il Iron Tr R 76:1632-3 Je 25 '25; Blast F & Steel Pl 13:298-9 Jl '25; Iron Age 116:152-3 Jl 16 '25

Safety devices and measures

Selling safety to the worker. B. Finney. il Iron Age 116:885-6+ O 1 '25

ROLLING of ships. See Ships—Stability

ROLLS (crushing machinery)

Fastening roll shells at Timber Butte mill. W. J. Tait. diags Eng & Min J 118:938 D 13 '24
Setting roll shells. W. I. Nelson. il Eng & Min J 118:217-18 Ag 9 '24

ROLLS, Paper. See Paper rolls

ROLLS (paper machines)

Hardness of paper rolls in calenders. Paper 34:563-4 Jl 17 '24
Metallurgy of iron dryer rolls. J. W. Bolton. il diags Iron Age 116:800-2 S 24 '25
Special soft rubber rolls for paper machines. R. H. Whitney. Tech Assn Pa ser 7:46-7 Je '24; Same. Paper Tr J 78:192-3 Ap 10 '24; Same. Paper 33:130+ Ap 17 '24

ROLLS, Printers'. See Rollers, Printers'

ROLLS (rolling mills)

Electric heating of sheet and tin mill rolls. G. Fox. il diags Blast F & Steel Pl 12:493-6 N '24
Molybdenum in cast steel and iron rolls. W. N. Bratton. il Iron Age 112:1509-10 D 6 '23
Producing hardened and ground rolls. J. R. Adams. il Iron Tr R 74:1426-8 My 29 '24; Same cond. Iron Age 113:1561-3 My 29 '24
Rolls and their care. Iron Age 112:1644 D 20 '23
Spalling of sheet and tin plate rolls. H. Harris. diags Blast F & Steel Pl 13:334-5 Ag '25
Why hard chilled rolls become rough. H. Harris. Blast F & Steel Pl 13:287-8 Jl '25

Cleaning

Preserve tin plate rolls by scouring. A. B. Davenport, jr. Iron Tr R 74:994 Ap 10 '24
Use of roll scouring bricks. O. A. Nierendorf. il Iron Age 113:1089-90 Ap 10 '24

ROLLS-ROYCE, limited

Annual meeting, 18th. Economist 100:111 Ja 17 '25

ROMAN forum. See Rome (city)—Forum

ROMAN roads. See Roads, Roman

ROME

Antiquities

Practical engineering in ancient Rome. T: Ashby. Engineering 120:491-3, 527-8, 560-1 O 16-30 '25

ROME (city)

Architecture

Dream by Tiber's Strand. N. Hammarstrand. il Am Inst Arch J 12:513-28 D '24
The new risorgimento; aesthetic beauty and physical development of Mole littoria. il Am Inst Arch J 13:19-21 Ja '25
Palazzo Linotte, Rome. L. M. Hendrick, jr. il diags Arch Forum 40:51-8 F '24

Churches

Mosaic flooring of Santa Prassede, Rome. A. Mausolff. il Arch Forum 42:17-22 Ja '25
Mosaics in the Church of San Marco, Rome. A. Mausolff. il Arch Forum 40:17-22 Ja '24

Forum

Reconstruction of the basilica of Constantine in the Roman forum. E. P. Franklin and V: L. S. Hafner. il plans Am Inst Arch J 12:74-80, 182-8, 322-6; Bibliography. 327 F, Ap, Jl '24

ROMFORD, England

Sewerage

Riverside sewerage scheme of the Romford R. D. C. diags map plans Engineer 138:290-2, 296 S 12 '24

RONDA, Spain

Little tour in Spain. L: La Beaume. il Am Inst Arch J 13:81-9 Mr '25

RONGALITE

Is rongalite a synthetic organic chemical? Chem Age (Lond) 10:266-7 Mr 15 '24
Legislation in relation to chemical industry; rongalite case. W: E. Kay. Soc Chem Ind J (Chem & Ind) 43:464-7 My 2 '24

RÖNTGEN rays. See X rays

ROOF leaders

Leaders and gutters. il Bldg Age 47:124-5 My '25
Rain leaders—inside or outside. J. B. Walker. Sanitary & Heat Eng 104:289 O 30 '25

ROOF plates

Designing a roof plate and skirt. diag Sheet Metal Worker 15:603+ Ag 29 '24
Pattern for a roof plate. diags Sheet Metal Worker 15:578-9 Ag 15 '24

ROOFING

Report of fire prevention committee; rating rules on roof coverings. J: Bogenberger. Sheet Metal Worker 15:463+ Jl 4 '24
Roof coverings, their manufacture and application. E. G. Blake. 264p Van Nostrand '25
Roofing. Survey of Cur Business 39:104 N '24
Roofing materials for chemical works; the development of A.P.M. Chem Age (Lond) 9:508-9 N 10 '23
What rural districts offer the metal contractor. R. C. Nason. il Sheet Metal Worker 15:855-7+ D 5 '24

See also Gypsum, Reinforced; Shingles

Advertising

Ralph R. Reeder and his roofing. il plan Sheet Metal Worker 14:936-8 Ja 4 '24
Roofing manufacturer goes to history for campaign's theme. Ptr Ink 126:33-4 F 14 '24

Costs

Approximate roofing costs. Eng & Contr (Bldgs) 62:682 S 24 '24

Manufacture

Economic factors in roofing manufacture. J. L. M. Yardley. flow sheets il plan Chem & Met Eng 31:659-63 O 27 '24

ROOFING—Manufacture—*Continued*
Making felt from waste. A. W. Allen. il Chem & Met Eng 30:45-8 Ja 14 '24
Prepared roofing manufacture demands exact temperature. W: Riach, jr. il diag Gas Age 53:165-6 F 9 '24; Same. Am Gas J 120: 270+ Mr 22 '24
Some relations between maintenance and operating costs in the manufacture of prepared roofing. J. L. M. Yardley. il Ind Eng 82:566-70+ D '24

Statistics
Roofing, 1922-1924. Survey of Cur Business 30:116 F '24 [continued quarterly]

ROOFING, Bituminous
Economic factors in roofing manufacture. J. L. M. Yardley. flow sheets il plan Chem & Met Eng 31:659-63 O 27 '24
Pyropruf; a new roofing material. Chem Age (Lond) 12:378, 432, 521 Ap 18, My 2, 30 '25
Varnish makers' formulary; roofing compositions. E. Perry. Oil Paint & Drug Rep 106:20 O 20 '24
See also Shingles, Asphalt

Specifications
United States government master specification for asphalt for mineral-surfaced roofing. diags U S Bur Stand Circ 159:1-10 '24
United States government master specification for asphalt for unsurfaced built-up roofing. diags U S Bur Stand Circ 168:1-10 '24
United States government master specification for asphalt prepared roofing. U S Bur Stand Circ 192:1-5 '24
United States government master specification for asphalt primer for roofing and waterproofing. U S Bur Stand Circ 162:1-7 '24
United States government master specification for coal-tar pitch for roofing. diags U S Bur Stand Circ 157:1-10 '24
United States government master specification for surfacing materials for bituminous built-up roofing. U S Bur Stand Circ 158: 1-3 '24
United States government master specification for the construction of built-up roofing. U S Bur Stand Circ nos. 171-179 ea 3p '24
United States government master specification for the installation of plastic flashings with built-up bituminous roofing. U S Bur Stand Circ 181:1-3 '24
United States government specification for asphalt-saturated rag felt for roofing and waterproofing. U S Bur Stand Circ 161:1-5 '24
United States government specification for coal-tar saturated rag felt for roofing and waterproofing. U S Bur Stand Circ 156:1-4 '24

ROOFING, Concrete. See Roofs, Concrete

ROOFING, Copper
Copper roof over dormer window. W: Neubecker. diags Sheet Metal Worker 15:784-6, 820-1 N 7-21 '24
Copper roofing problem. Sheet Metal Worker 15:13 F 1 '24
Covering tower roofs with sheet copper. W: Neubecker. diags Sheet Metal Worker 14: 855-6 D 7 '23
Metal work on spire, pinnacle and cross. W: Neubecker. diags Sheet Metal Worker 15: 319-21, 381-3 My 23-Je 6 '24
New everlasting copper helmet; roof of the Milwaukee auditorium. il diags Sheet Metal Worker 14:961-3+ Ja 4 '24
Something really new in copper. T: D. N. Brophy. Brass W 20:356-7 O '24
Work of Copper and brass research association. G: A. Sloan. Sheet Metal Worker 15: 246-7 Ap 25 '24

ROOFING, Slate
Laying thatched slate shingles. diags Sheet Metal Worker 16:575-6 S 11 '25

Standards
Roofing slate. (Simplified practice recommendation no. 14) 8p U.S. Bur. of stand., Washington '24; Abstract. Am Inst Arch J 13:193 My '25

ROOFING, Steel
Data on corrugated roofing and siding. diags Sheet Metal Worker 15:941-2 Ja 2 '25
Flat steel roofs for buildings. il Ry Age 77: 206 Ag 2 '24

ROOFING, Tin
How tin roofs meet severe tests. il Sheet Metal Worker 14:829-30 N 23 '23
Laying standing-seam tin roofing. W: Neubecker. diags Sheet Metal Worker 16:362-4 Je 19 '25
Practical hints on laying flat seam tin roofing. W: Neubecker. diags Sheet Metal Worker 15:749-50 O 24 '24
Real roof insurance demonstrated. W. Carter. il Sheet Metal Worker 15:719 O 10 '24
Tin roof of 1850. il Sheet Metal Worker 15: 207+ Ap 11 '24
The weakest link; a personal experience in selling tin roofing. Sheet Metal Worker 16: 577-8 S 11 '25
Why paint a tin roof either red or black? Sheet Metal Worker 14:947 Ja 4 '24

ROOFING, Zinc
Standing seam zinc roofing without cross seams. il Sheet Metal Worker 15:4-5 F 1 '24
Zinc roof of pre-civil war days. il Sheet Metal Worker 15:46-7 F 15 '24
Zinc roofs are long-lived. Coal Age 27:684 My 7 '25
Zinc used for roofing. C: E. van Barneveld. diags U S Bur Mines Rep of Invest 2652:1-10 N '24; Excerpts. Arch & Bldg 57:5-8 Ja '25; Sheet Metal Worker 16:165-7, 199 Ap 10-24 '25
Zinc used on dome-shaped roof of St Mary's Ukrainian Greek Catholic church at McKees Rocks, Pa. il Sheet Metal Worker 15:315 My 23 '24

ROOFING paper. See Paper, Roofing

ROOFS
Boston hip on slate roofing. il diag Sheet Metal Worker 15:859 D 5 '24
Build ye better. E. McCullough. il Bldg Age 46:94-6 Mr '24
Copper-gutter, roofing and flashing work. W: Neubecker. diags Sheet Metal Worker 16: 78-9+ Mr 13 '25
Direction on laying metal shingles. il diags Sheet Metal Worker 16:690-2 O 23 '25
Fink roof truss and its problem. R. Fleming. Can Eng 47:309-12 S 9 '24; Same. Eng & Contr (Bldgs) 63:417-22 F 25 '25
Five-hundred-year-old roof; preserving Westminster Hall for posterity. il diag Sci Am 130:32 Ja '24
Flat roof construction. il Management & Adm 8:204 Ag '24
Framing for thatched roof effect. diags Eng & Contr (Bldgs) 61:1193-5 My 28 '24
Further explanation of Lamella construction. il Eng & Contr (Bldgs) 64:933-4 O 28 '25
Insulated paper mill roof; asbestos sheet. B. C. J. Beckwith. Paper Tr J 81:58-9 O 1 '25
Insulation of roofs to prevent heat loss and condensation. W. L. Miller. Heat & Ven 21:45-9+ N '24; 22:49-51+ Ja; 67 F '25
Maintenance; gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 34:756-60+ My '25
Modern type of saw-tooth roof construction; illustrated by examples designed by the Ballinger company. il diag plan Am Arch 126:25-9 Jl 2 '24
New competition and your building. W. F. Ballinger. il diags Ind Management 67:297-302 My '24
New light weight, fireproof roof. il Eng & Contr (Bldgs) 61:1426 Je 25 '24
New type of roof construction. il diags Bldg Age 47:150-1+ Je '25
New type of roof construction; the Lamella system. R. T. McQuinn. il Eng & Contr (Bldgs) 64:931-2 O 28 '25
Old-timer's roofing secrets. L. S. Bonbrake. diags Bldg Age 47:135-6 Mr '25

ROOFS—*Continued*
Raising the roof at Reading mill. Textile World 64:3315 D 1 '23
Roof construction for the power plant. diags Power Pl Eng 29:151-3 Ja 15 '25
Roof types and roof surfaces. W. F. Ballinger. il diags Arch Forum 39:109-14 S '23; Same. Eng & Contr (Bldgs) 60:1331-8 D 26 '23; Same. Textile World 65:998+ F 2 '24; Same. Can Eng 46:561-4 My 27 '24
Securing hip mouldings. diags Sheet Metal Worker 15:866 D 5 '24
Shingle the roof with clay. il Brick & Clay Rec 66:822-3 My 26 '25
Sincerity in roof design. E. R. Thayer. Arch Rec 55:308 Mr '24
Steel square applied to roof construction. J. T. Draper. 63p Van Nostrand '23
Suggestions on roof paint. A. Eyles. Sheet Metal Worker 15:948+ Ja 2 '25
Variety in station roofs. R. A. M. Anderson. Pet Age 15:24-5 Mr 15 '25
Wiggins floating roof affords good fire protection. C. B. Smith. diags Gas Age 53: 685-7 My 17 '24

See also Arches; Architecture; Building; Car roofs; Chimney saddles; Domes; Flashing; Girders; Gutters (roof); Roofing; Shingles; Shingling; Skylights; Strains and stresses; Trusses

Cost

Labor productivity and costs in certain building trades. E. Stewart. Monthly Labor R 19:949, 957-9 N '24; Excerpt. Arch Forum 42:30 Ja '25

Failures

Trainshed roof collapses under heavy snow load. diag Eng N 92:323 F 21 '24

Repair

Alterations to defective flat roof on Wisconsin state capitol. il diag Eng N 93:436 S 11 '24
How to repair slate and composition shingle roofing. L. S. Bonbrake. diags Bldg Age 46:81-2+ Jl '24
Problem of moulding on mansard roof. diags Sheet Metal Worker 16:45+ F 27 '25

Tables, calculations, etc.

Table of gradients para allēlōn. G: D. Inskip. 224p G. Wahr, Ann Arbor, Mich. '24

ROOFS, Concrete
Concrete brick and roof tile in China. P. J. Hawkins. il Concrete 24:101-2 Mr '24
Long span concrete construction. A. B. Villadsen. il diag Concrete 24:233-4 Je '24
Ready-made concrete roofing. H. J. Harms. il diags Concrete 23:240-1 D '23
Roof tile problems being solved. H. Whipple. il diags Concrete 27:37-42 N '25
Roofing tile on new Chicago union station. il Concrete 27:47 O '25

ROOMS. See Architecture, Domestic; Breakfast rooms; Dining rooms; Halls; Interior decoration; Kitchens; Libraries (rooms)

ROOSEVELT, Theodore

Memorials

Competition for the New York state Roosevelt memorial. Am Arch 128:14, pl 168-78 Jl 1 '25
New York state Roosevelt memorial. Appointment of John Russell Pope as architect. il Arch Rec 58:190-3 Ag '25
New York state Roosevelt memorial competition. il plan Arch Forum 43:9-10 Jl '25

ROOT, Elihu
Sketch. M. Green. Am Ind 25:10 Mr '25

ROPE
Further notes on towing and the strength of hawsers. S. Miller. il Marine Eng 30: 221-4 Ap '25
Thread, twine, cordage, and rope. E. Wigglesworth. Textile Inst J 16:P139-42 My '25

See also Cables; Manila rope; Wire rope

Tables, calculations, etc.

Length of rope stowed on reel. diag Marine Eng 29:373 Je '24
Rope capacity of drums. H. Levine. Am Mach 61:203 Jl 31 '24

ROPE driving
Belt and rope driving; the attendant pull on the shaft. W. R. Needham. diags Elec R (Lond) 97:169-70 Jl 31 '25
Horsepower transmitted by wire rope. W. F. Schaphorst. Power Pl Eng 29:658 Je 15 '25
Metamorphosis of a cotton rope and how it led to a new method of calico printing. W. Warr. diag Soc Dyers & Col J 39:361-2 D '23; Same. Textile World 65:493+ Ja 26 '24
Scientific methods in rope driving. Chem Age (Lond) 13:218 Ag 29 '25

ROPE making machine
Planetary gearing. F. D. Furman. il diags Mach 31:891-6 Jl '25

ROPEWAYS. See Cableways

ROSANILINE
3^1, 3^2, 3^3-trimethyl-aurin (ortho-cresaurin) and 3^1, 3^2, 3^3-trimethyl-N^1, N^2, N^3-triphenyl-para-rosaniline (triphenyl-ros-orthotoluidine). M. Gomberg and L. C. Anderson. Am Chem Soc J 47:2022-33 Jl '25

ROSEMARY Hall, Greenwich, Connecticut
Rosemary Hall—a school for girls. il diags plans Am Arch 127:539-44, pl 152-6 Je 17 '25

ROSENGARTEN family
American chemical industries. Ind & Eng Chem 17:99-100 Ja '25

ROSIN
Action of rosin and alum in sizing paper. C. G. Schwalbe. Paper 33:9-10 Ja 24 '24
Colloid studies in rosin sizing. R. Lorenz. Tech Assn Pa ser 7:140-61 Je '24; Same. Paper Tr J 78:61-8 Je 5; 47-52 Je 12; 43-5 Je 19; 52-4 Je 26; 79:51-5 Jl 3 '24
Constitution of colophony. H. M. Bunbury. Chem Age (Lond) 9:650-2, 678-9 D 15-22 '23
Driers: simple and compound. E. Perry. Oil Paint & Drug Rep 105:20+ F 25; 20+ Mr 3; 20+ Mr 10 '24
Effect of sunlight on rosin. J. Chintshin. Paper Tr J 80:57 My 14 '25
Production and croppage of turpentine and rosin. Manuf Rec 87:78 My 14 '25
Rosin recovery; patent. Chem Age 32:472 N '24
Rosin sizing with hard water. J. Teicher. Paper 34:941-3 S 11 '24
Some constituents of French and American rosins. E. Knecht and E. Hibbert. Soc Dyers & Col J 41:329-33 O '25
What do we know about sizing paper with rosin? E. Sutermeister. Am Dyestuff Rep 13:513-16, 548-52 Ag 11-25 '24

See also Naval stores; Paper sizing

ROSSEL Island
Rossel Island money: a unique monetary system. W. E. Armstrong. Econ J 34:423-9 S '24

ROTARY converters. See Converters, Synchronous

ROTARY pans
Rotary pans—their design and operation. A. V. Eulich. il plan Eng & Min J 119:997-9 Je 20 '25

ROTATING discs
Le calcul des disques tournants. P. Caufourier. Génie Civil 84:15-17 Ja 5 '24
Rotating disk. E. L. Thearle. diags Mech Eng 46:670-4 N '24; Discussion. D. Dresden. 47: 224-5 Mr '25
Stresses in rotating discs of hyperbolic profile. B. Hodkinson. Engineering 120:215-17 Ag 21 '25

ROTATION
Deflection of a shaft at the critical speed. J. A. Dent. Mech Eng 47:724-6 S '25
Internal friction as a cause of shaft whirling. A. L. Kimball, jr. diags Philos Mag 6th ser 49:724-7 Ap '25
Internal friction theory of shaft whirling. A. L. Kimball, jr. il diags Gen Elec R 27:244-51 Ap '24

ROTATION—*Continued*
Rotation in a rarefied gas from the point of view of the kinetic theory. G. Breit. diags Phys R 23:608-16 My '24
Rotation of melting ice suspended in benzine. H. B. Hachey. J Fr Inst 197:825-7 Je '24
Spontaneous loss of energy of a spinning rod according to the relativity theory. A. S. Eddington. Philos Mag 6th ser 46:1112-17 D '23
Whirling of shafts. J. Frith and F. Buckingham. bibliog diags Inst E E J 62:107-13 Ja '24
Whirling speeds of shafts carrying concentrated masses. R. C. J. Howland. Philos Mag 6th ser 49:1131-45 Je '25
Why work in a centerless grinder revolves with the regulating wheel. P. M. Heldt. Automotive Ind 53:574 O 1 '25
See also Precession

ROTATORY dispersion. See Dispersion

ROTHSCHILD family
Romance of the Rothschild fortune. W. Woolford. il Bankers M 110:809-14 My '25

ROTOGRAVURE
I do not sell rotogravure—it sells itself. A. W. Bealer. Ptd Salesmanship 45:467-9 Jl '25
Inventor of rotagravure; Karl Klietsch. S. H. Horgan. Inland Ptr 75:64 Ap '25
Is there a special practice in the preparation of rotogravure art? Ptr Ink 127:97-8+ Ap 24 '24
Relief plates, rotagravure or offset? Inland Ptr 74:551-2 Ja '25
Rotogravure printing on rubber. India Rubber W 70:646-7 Jl '24
What process shall we use? W: A. Kittredge. il Ptg Art 42:447-52 Ja '24

ROTOR ships
Anton Flettners erfindungen. Zeit Ver Deutsch Ing 68:1270 D 6 '24
Le bateau à cylindres propulseurs, système Flettner. il diag Génie Civil 85:526-7 D 6 '24
Engineer observer describes rotor ship trials. Power 60:1080 D 30 '24
Die erprobung des walzensegelschiffes "Buckau." Zeit Ver Deutsch Ing 69:729 My 23 '25
Flettner rotor ship. Engineering 118:710 N 21 '24; Engineer 138:678 D 12 '24
Flettner rotor ship. A. R. Low. il Engineering 118:831 D 19 '24
Flettner's sailless ship explained. il diags plan Power 60:1054-6 D 30 '24
How rotor ship gets power. il Marine R 55: 90-1 Mr '25
Magnus effect. Marine Eng 30:95-6 F '25
Magnus effect employed by Herr Anton Flettner. il diags Engineer 138:589 N 21 '24
Der magnus-effekt, die grundlage der Flettnerwalze. A. Betz. diags Zeit Ver Deutsch Ing 69:9-14 Ja 3 '25
More facts about the Flettner rotor ship. H. O. Herzog. il Sci Am 132:82-3 F '25
Principle of Flettner's ship easily demonstrated. il Power 61:36 Ja 6 '25
Reaction of a stream of viscous fluid on a rotating circular cylinder. A. R. Low. Roy Aeronautical Soc J 46:100-4, 141-4 F-Mr '25
Taking the sensational out of the rotor ship story. il diag Sci Am 133:122 Ag '25
Les théories le l'aérodynamique moderne sur l'effet Magnus et les voiles tournantes Flettner. G. Delanghe. il diags Génie Civil 86:425-33, 453-7 My 2-9 '25
Uses revolving towers to drive ship. il diags Marine R 55:22-5 Ja '25
Utilisation of aerodynamical knowledge for the propulsion of ships by wind. A. Flettner. diags Engineering 119:117-20 Ja 23 '25; Same cond. Soc Auto Eng J 16:599-600 Je '25; Abstracts. Engineer 139:608 N 28 '24; Mech Eng 47:74 Ja '25
Das walzensegel von Flettner. il diags Zeit Ver Deutsch Ing 68:1218 N 22 '24
What results were obtained with the rotorship? il diags plans Marine Eng 30:275-8 My '25
See also Rotors, Wing

Bibliography
Flettner rotor ship. Mech Eng 47:387 My '25

ROTORS
Accurate balancing of machine rotors. C. R. Soderberg. il diags Power Pl Eng 29:388-9 Ap 1 '25
Aufschrumpfung von stahlringen. E. Rosenberg. il Elektrotech Zeit 45:803-4 Jl 24 '24
Critical speed of a turbine. Power Pl Eng 28: 1115 N 1 '24
Damping effect of solid rotors. N. B. Hill. diag Electrician 92:511-12 Ap 25 '24
Mounting rotors on shafts in the field. E. L. Doty. Elec J 22:220-1 My '25
Movement of 52-ton rotor affected by highway law. il diag J Elec 55:339 N 1 '25

ROTORS, Wing
Savenius wing rotor; a further application of the Magnus effect to windmills and to boat propulsion. A. Klemin. il diags Mech Eng 47:911-12 N '25
Wing rotor. il diags Power 62:572 O 13 '25
Wing rotor. Mech Eng 47:849 O '25
Wing-rotor developed by Sigurd J. Savonius. il diags Engineer 140:193 Ag 21 '25

ROTOSCOPE
Optical instrument showing rotating parts at rest. il Sci Am 133:55 Jl '25
Optisches gerät zur beobachtung umlaufender teile in scheinbarer ruhe (rotoskop). K: Pritschow. il diags Zeit Ver Deutsch Ing 69:701-2 My 16 '25
Rotoscope. il diags Engineer 140:272-3 S 11 '25; Mech Eng 47:936 N '25

ROTOTILLER. See Cultivators, Motor

ROTTERDAM

Harbor
Ducs d'albe avec fondation en béton armé, au port de Rotterdam. diags plan Génie Civil 84:20-1 Ja 5 '24
Le port maritime et fluvial de Rotterdam (Hollande). A Bijls. il diags plans Génie Civil 85:513-21, 549-52 D 6-13 '24

ROULETTES
Use of roulettes for graphical integration. A A. Robb. Philos Mag 6th ser 49:962-70 My '25

ROUNDHOUSES
Efficient roundhouses in Georgia. F. H. Colvin. il diag plan Am Mach 63:665-7 O 22 '25
New engine terminal of the New York Central railroad at Selkirk, N.Y. il diags plans Ry R 76:426-42 Mr 7 '25
Report on smoke jacks for roundhouses. Ry Age 77:755-6 O 25 '24
See also Locomotive shops; Locomotive terminals; Railroads—Shops

Equipment
Spring track assists in enginehouse work. il diag Ry Mech Eng 99:585-6 S '25

Heating and ventilation
Steam for enginehouse heating systems and blower lines. H. W. Williams. Ry Mech Eng 99:275-6 My '25
Ventilation of engine houses. Ry R 76:521-2 Mr 14 '25

Lighting
Illumination of railroad shops and roundhouses. diags Ry R 75:915-19 D 6 '24

Management
Handling locomotive supplies. il Ry Mech Eng 99:573-4 S '25

ROUTING systems
Controlling the flow of package products by materials handling equipment; assured savings in the B. T. Babbitt plant. J. Mendleson. il plans Management & Adm 7: 545-50 My '24

ROUTING systems—*Continued*
Hyatt methods of material handling. H. J. Forsythe. il diags plan Management & Adm 10:137-40 S '25
Perspective routing. P. K. Guillow. plans Ind Management 68:242-3 O '24
Routing sheet and tool-crib index. R. Mawson. Mach 30:537 Mr '24
Routing work in a machine tool plant. A. L. Baker. il Mach 32:175-8 N '25
Use of the routing analysis. J. H. Van Nice. Management & Adm 8:652 D '24

See also Machine shop management

ROWELL, George P.
"Cut out the first paragraph," said George P. Rowell. C: L. Benjamin. por System 47:44-5 Ja '25

ROXANA petroleum corporation
Roxana winning new position as competitive factor. J. C. Chatfield. Nat Pet N 16:83+ Mr 5 '24

ROYAL baking powder company
Big campaign supports new Royal baking powder product. Ptr Ink 128:10+ S 11 '24

ROYAL Dutch co. for the working of petroleum wells in Netherlands India
Annual report, 1923. Comm & Fin Chr 119: 451-3 Jl 26 '24
Annual report for the year ended Dec. 31, 1924. Comm & Fin Chr 121:324-6 Jl 18 '25

ROYAL society of London
Exhibition. Engineering 117:648, 674-5 My 15-23 '24

ROYCE, Frederick Henry
Man who builds the car that never wears out. O. D. Foster. il Forbes 13:439-41+ Ja 19 '24

RUBBACRETE. See Pavements, Rubber

RUBBER
Antediluvian monsters of rubber. il India Rubber W 72:707-8 S '25
Bonnot system of grinding hard rubber. il Rubber Age 17:371 S 10 '25
Development of the rubber industry. R. K. McIntyre. Can Chem & Met 9:8-11 Ja '25
Distribution of carbon black in rubber stocks. E. B. Spear and R. L. Moore. il Ind & Eng Chem 17:936-8 S '25; Same, without il. India Rubber W 73:201-2 Ja '26
Effect of heat on the plasticity of crude rubber. B. Marzetti. Rubber Age 17:306-7 Ag 10 '25
Effect of plantation treatment on quality of rubber. Rubber Age 14:303 Ja 25 '24
Electrodeposition of rubber. S. E. Sheppard and L. W. Eberlin. il diags Ind & Eng Chem 17:711-14 Jl '25
Electrolytic deposition of rubber. Chem Age 32:77 F '24
Flagonel of perfume that opened up a jungle; rubber hunting in Brazil. W: J. LaVarre. il Ptr Ink M 10:28-9+ Ja '25
Flow of plastic materials at low velocities. B. Marzetti. Rubber Age 15:454-5 S 25 '24
Guayule—a high grade rubber. India Rubber W 77:652-3 Ag '25
Informal talk on rubber. E. Wray. Special Lib 16:329-30 O '25
Joule effect. R. W. Lunn. Soc Chem Ind J 44:247-51; Discussion. 251-3 My 22 '25
Keeping qualities of paper sized with rubber latex. J. Beckering-Vinckers. Paper Tr J 79:47-9 Ag 28 '24
LS rubber—a new crude rubber. E. Hopkinson. Ind & Eng Chem 15:1267-9 D '23
Measurement of crude rubber consistency. Ind & Eng Chem 17:1202 N '25
Mechanical structure of rubber. Chem Age (Lond) 10:293-4 Mr 22 '24
New uses for rubber milk. Sci Am 131:108 Ag '24
Novel process for adding rubber to parchmentized paper. Paper 34:968 S 11 '24
Physical properties of rubber. L. B. Sebrell, C. R. Park and S. M. Martin, jr. bibliog il Ind & Eng Chem 17:1173-6 N '25
Plasticity of rubber. Rubber Age 16:229 Ja 10 '25
Plasticity of rubber and its measurements. I. Williams. il Ind & Eng Chem 16:362-4 Ap '24; Same cond. India Rubber W 70:516-17 My '24
Problems of the paint and rubber industries. B. D. Porritt. Chem Age (Lond) 12:431-2 My 2 '25
Putting rubber latex to new uses. R. Ditmar. Chem & Met Eng 30:474 Mr 24 '24
Resilient energy criterion as applied to the shape of the rubber stress-strain curve. W: B. Wiegand. Ind & Eng Chem 17:623-5 Je '25
Rubber latex as paper size. J. Beckering-Vinckers. Paper Tr J 79:43-6 Ag 14 '24
Rubber latex as paper size. A. van Rossem and W. Frenzyl. Paper 33:3-7 N 15 '23
Rubber latex in papermaking. T. J. Keenan. Paper 33:17 Mr 27 '24
Rubber latex; its properties and the development of its industrial applications. A. Van Rossem. Soc Chem Ind J 44:33-41 Ja 23 '25
Rubber latex particles. E. A. Hauser. diags India Rubber W 71:86 N '24
Rubber latex particles. E. P. Wightman and A. P. H. Trivelli. il Ind & Eng Chem 17:164 F '25
Rubber used in mammoth models. F. A. Emmons. il Rubber Age 18:54-5 O 25 '25
Safety in grinding sulphur and hard rubber. H. W. Frevert. diag Chem & Met Eng 31: 894-6 D 8 '24
Sixth International rubber exhibition; abstracts of papers on crude rubber problems. India Rubber W 70:685-6 Jl '24
Sizing with rubber latex. C. Fenchel. Paper Tr J 79:45-7 O 2 '24
Splinters and chips in crude rubber. India Rubber W 71:3-4 O '24
Studies of the physical properties of balata and rubber. C. R. Park. Ind & Eng Chem 17:152-60 F '25
Variability in the plasticity of crude rubber. B. Marzetti. Rubber Age 16:372 Mr 10 '25
What do you know about rubber belts. A. M. Oliver. il Brick & Clay Rec 65:394-5+ S 16 '24

See also Dyes and dyeing—Rubber; Pavements, Rubber; Printing on rubber; Rubber fabrics; Rubber factories; Rubber goods; Rubber industry and trade; Tires, Automobile; Vulcanization

Ageing

Action of some antioxidants on the aging of vulcanized rubber. C. Pelizzola. Rubber Age 16:333 F 25 '25
Ageing of rubber. S. A. Brazier. Chem Age (Lond) 10:167 F 16 '24
Improved rubber aging test involving oxidation under pressure. J. M. Bierer and C. C. Davis. bibliog Ind & Eng Chem 16:711-17 Jl '24; Same cond. India Rubber W 70:656-8 Jl '24
Symposium on the Bierer-Davis oxygen aging test. J. M. Bierer, C. C. Davis and others. Ind & Eng Chem 17:860-71 Ag '25; Abstract. India Rubber W 77:656-9 Ag '25

Analysis

Determination of balata in balata-rubber mixtures. J. T. Charleson. India Rubber W 72: 410 Ap '25
Determination of paraffin wax in rubber goods. J. Lagerquist. diag Soc Chem Ind J 44:157-62 Ap 3 '25; Excerpt. India Rubber W 72: 473 My '25
Determination of rubber and inorganic materials in soft rubber goods. R. T. Mease and N. P. Hanna. Ind & Eng Chem 17:161-3 F '25; Same abr. India Rubber W 71:346-7 Mr '25
Determination of sulphur in mixtures of crude or of vulcanized rubber. V. C. Butroni. Rubber Age 16:404 Mr 25 '25
Standard methods for the analysis of rubber goods. Ind & Eng Chem 16:397-402 Ap '24

Bibliography

Recent articles relating to rubber. Published in monthly numbers of India rubber world

RUBBER—Bibliography—*Continued*
Rubber latex in paper making. C. J. West. Paper Tr J 79:41-2 Ag 14 '24
Systematic survey of rubber chemistry. C. W. Bedford and H. A. Winkelmann. 385p Chemical catalog co. '23
Twenty-five years of rubber chemistry. W: C. Geer. Ind & Eng Chem 17:1027 O '25

Chemistry

American chemical society rubber division meeting, 67th, Washington. Chem & Met Eng 30:713-14 My 5 '24; Rubber Age 15:99-100 My 10 '24
American chemical society rubber division meeting, 69th, Baltimore. India Rubber W 72:474-5 My '25
Chemistry of rubber. D. W. Luff. 232p Van Nostrand '24
Chemistry of the rubber hydrocarbon. H. L. Fisher. Ind & Eng Chem 16:627-31 Je '24; Abstract. India Rubber W 70:796-7 S '24
Chlorinated rubber. Chem Age 32:280 Je '24
Clay in rubber compounds. India Rubber W 69:159 D '23
Coagulation of hevea latex with organic bases. C. Pelizzola. Rubber Age 16:402 Mr 25 '25
Colloid properties of rubber and compound ingredients. E. B. Spear. India Rubber W 71: 18-20 O '24
Guayule as a rubber softener. Rubber Age 16:266 Ja 25 '25
Influence of accelerators on plasticity of uncured rubber stocks. S. Krall. Ind & Eng Chem 16:922-4 S '24
Influence of certain compounding ingredients in hard rubber. W. E. Glancy. Ind & Eng Chem 16:359-61 Ap '24
Latex, its chemistry and the development of its industrial applications. A. Van Rossem. Chem Age (Lond) 11:522 N 22 '24
Mixing of rubber compounds. R. B. Stringfield. il Chem & Met Eng 32:51-4 Ja 12 '25
Modern compounding ingredients. J: M. Ball. Rubber Age 18:92-4 N 10 '25
Modern materials used in rubber compounding. A. A. Somerville. India Rubber W 72: 408 Ap '25
More complete evaluation of the pigment reinforcement of rubber. W: B. Wiegand. Ind & Eng Chem 17:939-41 S '25; Same. India Rubber W 73:14-15 O '25
New experiments on constitution of rubber. Rubber Age 14:305 Ja 25 '24
Preservation of rubber latex with ammonia. Rubber Age 14:423 Mr 10 '24
Relation between dye adsorption of clays and their behavior in rubber compounds. H. R. Thies. Ind & Eng Chem 17:1165-9 N '25; Excerpt. India Rubber W 73:143 D '25
Le rôle des enzymes dans la coagulation du latex d'hévéa. O. de Vries. bibliog Chimie & Ind 12:449-52 S '24; Abstract. India Rubber W 70:729 Ag '24
Role of enzymes in coagulation. Rubber Age 16:337 F 25 '25
So-called electro-viscous effect in rubber solutions; abstract. G. S. Whitby. India Rubber W 70:795 S '24
Twenty-five years of rubber chemistry. W: C. Geer. Ind & Eng Chem 17:1024-7 [bibliog. p. 1027] O '25; Abstract. India Rubber W 73:78-9 N '25

See also Rubber—Water dispersion; Vulcanization

Fillers

Asbestine as a rubber filler; abstracts, R. Ditmar. India Rubber W 69:231-2 Ja '24; Chem & Met Eng 30:318-19 F 25 '24
Factors determining the reinforcing value of fillers in compounded rubber. H. A. Endres. il Ind & Eng Chem 16:1148-52 N '24; Abstract. India Rubber W 71:221-2 Ja '25
Georgia clays for rubber filler. W. M. Weigel. Rubber Age 15:301-4 Jl 25 '24
Use of fillers in compounding rubber. I. Ginsberg. Rubber Age 16:48-50 O 25 '24

Manufacture

China clay in rubber. Chem Age (Lond) 11: sup 14 O 18 '24
Effect of milling on rubber stocks. E. B. Spear and R. L. Moore. India Rubber W 72:721-2 S '25
Influence of glue on the reinforcing effect of light magnesium carbonate in rubber. H. W. Greider. Ind & Eng Chem 16:151-5 F '24; Abstract. India Rubber W 70:446-8 Ap '24
Manufacture and use of red oxide. J. A. McNulty. Rubber Age 16:369 Mr 10 '25
Manufacture of hard rubber. H. T. Tenen. il Rubber Age 15:55-8+ Ap 25 '24
Manufacture of reclaimed rubber. il India Rubber W 72:588-90 Jl '25
Plasticity control in rubber mixing. P. Beebe and R. B. Stringfield. Ind & Eng Chem 17: 295-7 Mr '25; Abstract. India Rubber W 72:407 Ap '25
Some tendencies in rubber compounding. W. B. Weigand. Rubber Age 18:53 O 25 '25
To extract rubber from guayule in Mexico. Chem & Met Eng 29:1075 D 10 '23
Treated liners for adhesive rubber stocks. diags India Rubber W 69:295-6 F '24
Water cooling quick curing stocks. il India Rubber W 73:5-6 O '25
Water cure to date. R. E. Bacon. diags India Rubber W 77:654-5 Ag '25

See also Rubber—Water dispersion; Vulcanization

Moisture content

Rate of absorption of water by rubber. D. H. Andrews and J: Johnston. Am Chem Soc J 46:640-50 Mr '24

Patents

Patent on Kaye's rubber paper. Paper 34: 626 Jl 24 '24
Recent patents relating to rubber. Published in monthly numbers of India rubber world

See also Rubber—Water dispersion

Prices

Annual market reviews for 1923. India Rubber W 69:338-40 F '24
Annual market reviews for 1924. India Rubber W 71:312-14 F '25
British reaction to the Hoover plan. Rubber Age 15:132 My 25 '24
Copper, lead and rubber in 1924. Elec R (Lond) 96:86 Ja 16 '25
Price fluctuations of rubber. Nat City Bank p 4-6 Je '25; Same. Econ W n s 29:837-9 Je 13 '25

Regeneration

See Rubber waste

Sulfur content

Solubility of sulfur in rubber. W. J. Kelly and K. B. Ayers. Ind & Eng Chem 16:148-50 F '24
Technology and commercial applications of sulphur. H: H. Wilkinson. bibliog Chem Age 32:22-4, 60-2 Ja-F '24
Ultra-violet microscope in the study of vulcanized latex globules. H: Green. Ind & Eng Chem 17:802-3 Ag '25; Same. India Rubber W 72:720-1 S '25

Testing

Abrasive testing of rubber goods. il India Rubber W 70:506-7 My '24
Apparatus and method for determination of resistance to abrasion of rubber products. W. W. Evans. il diag Am Soc T M Pro 23 pt 2:517-21; Discussion. 522-3 '23
Crude rubber testing—rate of cure. C. W. Sanderson. Ind & Eng Chem 16:966-8 S '24; Excerpt. India Rubber W 71:87-8 N '24
Effect of humidity in rubber testing. R. B. Stringfield. Ind & Eng Chem 17:833-5 Ag '25
L'examen et l'analyse du caoutchouc des plantations aux Indes Néerlandaises. J. J. B. Deuss. Chimie & Ind 11:1078-82 Je '24
Important variable in raw rubber. D. F. Twiss and F. B. Jones. Soc Chem Ind J 42:505-9 D 28 '23; Same abr. India Rubber W 69:380-1 Mr '24
Improved attachment for Scott rubber tester. chart diags India Rubber W 71:151 D '24
Measuring cure by compression tests. il India Rubber W 69:160 D '23

RUBBER—Testing—*Continued*
Measuring effects of corona on rubber. F. L. Haushalter. diags Elec W 86:267-9 Ag 8 '25
Method of determining consistency of benzene solutions of rubber. W. H. Herschel. Ind & Eng Chem 16:927 S '24
Report of the physical testing committee of the division of rubber chemistry. diags Ind & Eng Chem 17:534-40 My '25; Same. India Rubber W 72:535-7, 598-601 Je-Jl '25
Rubber compounding laboratory. il India Rubber W 70:660 Jl '24
Symposium on the Bierer-Davis oxygen aging test. J. M. Bierer, C. C. Davis and others. Ind & Eng Chem 17:860-71 Ag '25; Abstract. India Rubber W 77:656-9 Ag '25
Tensile strength of rubber. O. De Vries. Soc Chem Ind J 43:47-52 Mr 7 '24
Testing of resistance to tearing. H. L. Heathcote. Soc Chem Ind J (Chem & Ind) 44:109-10 Ja 30 '25
X-ray spectrographs of rubber samples. Rubber Age 17:205 Je 25 '25

Transportation

All-rubber packing system. T. E. Gjorup. il India Rubber W 71:343-4 Mr '25
Transporting rubber latex from plantation to factory. il India Rubber W 71:10-11 O '24

Water dispersion

Dispersing rubber in water. Sci Am 130:405 Je '24
Dispersing rubber in water. J: B. Tuttle. Chem & Met Eng 30:402-3+ Mr 10 '24; Same cond. Rubber Age 15:15-16 Ap 10 '24; Same cond. India Rubber W 70:449 Ap '24
Equipment for producing aqueous rubber dispersions. J: B. Tuttle. il Rubber Age 15: 299-300 Jl 25 '24
Water dispersion in rubber manufacturing. il India Rubber W 70:785-6 S '24; Same. Chem & Met Eng 31:418 S 15 '24
Water dispersion of rubber. F. Kirchhof. India Rubber W 71:280-1 F '25
Water dispersion of rubber and rubber compounds. India Rubber W 69:361-2 Mr '24
Water dispersions from coagulated rubber, balata and gutta percha. J: B. Tuttle. India Rubber W 67:213-15, 291-3; 68:488-90; 69:219-20 Ja-F, My '23, Ja '24

RUBBER, Artificial
Artificial rubber. Chemicals 24:11 Jl 27 '25
Synthetic rubber. Chemicals 24:11 Ag 24 '25
Synthetic rubber by ultra-violet light. diag India Rubber W 71:280 F '25

RUBBER, Fossil
Rubber found in Central German lignite. il Rubber Age 15:456 S 25 '24

RUBBER, Reclaimed. See Rubber waste

RUBBER association of America
Activities of the Rubber association of America. India Rubber W 71:171 D '24
Annual meeting, New York, Jan. 7. India Rubber W 69:297-304 F '24
Annual meeting, 25th, New York, Jan. 5. Rubber Age 16:207-8+ Ja 10 '25; India Rubber W 71:277-8 F '25

RUBBER cement
Hadley family and rubber cement. Chem Age 32:326 Ag '24

RUBBER coating
Electrodeposition of rubber coatings; patent. diag Rubber Age 14:338-9 F 10 '24

RUBBER corsets. See Corsets, Rubber

RUBBER dust
Dust explosions in the rubber industry. F. S. Hoxie. Rubber Age 16:121 N 25 '24; Same. India Rubber W 71:345 Mr '25

RUBBER fabrics
Crêpe rubber paintings. il India Rubber W 69: 362 Mr '24
Development of cotton reinforced rubber. J. H. Stedman. il India Rubber W 69:289-90 F '24
Development of materials and technique in rubberizing corset and girdle cloth. il plan India Rubber W 71:149-51 D '24
Manufacture of automobile topping. il India Rubber W 70:643-4 Jl '24
Present-day proofing. S. G. Byam. India Rubber W 72:713-16 S '25
Printed linings for weatherproofs. il India Rubber W 69:151-2 D '23
Putting rubber latex to new uses. R. Ditmar. Chem & Met Eng 30:474 Mr 24 '24
Rubberized fiber composition. Chem & Met Eng 30:559 Ap 7 '24
Single texture finishes. S. G. Byam. India Rubber W 73:76-7 N '25
Synthetic leather made from rubber. A. Dubosc. Rubber Age 14:418-20 Mr 10 '24
Textiles for reducing corsets. R. C. Kelley. Textile World 66:2509-10 N 1 '24
See also Dyes and dyeing—Rubber; Rubber goods

Testing

How qualities of coated automotive fabrics are determined. E. B. Benger and N. M. Nickowitz. il diags Automotive Ind 49:1262-6, 1306-8 D 20-27 '23

RUBBER factories
Glimpse into the Goodyear tire and rubber company. il Ind Eng 82:162-3+ Ap '24
See also Tires, Automobile—Manufacture

Accidents

More safety work needed in rubber mills. E. L. Hewitt. India Rubber W 72:469-70 My '25
Rubber section accident rates continue downward. Nat Safety N 11:20-1 F '25
Rubber section has a good record last half of 1923. Nat Safety N 10:40 Jl '24
See also Rubber dust

Accounting

See Rubber industry and trade—Accounting

Electric equipment

Synchronous motor drive for rubber mills; with special reference to dynamic braking control for safety stopping. C. W. Drake. il diags Am Inst E E J 44:350-3 Ap '25; Same. India Rubber W 72:530-3 Je '25; Discussion. Am Inst E E J 44:1122-6 O '25

Employees

Hexamethylenamin poisoning in the rubber industry. H. J. Cronin. Monthly Labor R 19: 657 S '24
Makes survey of wages in rubber industry. Rubber Age 15:95-6 My 10 '24
Rubber worker's compensation claim. Chem Age (Lond) 11:498 N 15 '24

Equipment

Conveyers saved nearly a million the first year; the Fisk rubber company. J. D. Anderson. il Factory 34:915-18+ Je '25
Overhead carriers, hoists and conveyors in the rubber factory. il India Rubber W 70:433-5 Ap '24
Power windups. W: H. Larkin, jr. il Rubber Age 18:20-3 O 10 '25
Selecting material handling methods for economical production; Dunlop tire and rubber corporation. G. L. Montgomery. il plan Chem & Met Eng 32:427-31 Ap '25
Water cooling method for rubber plants. il Rubber Age 14:456-7 Mr 25 '24

Laboratories

See Rubber laboratories

Management

Purchasing rubber factory materials. India Rubber W 69:363-5 Mr '24
Savings through management in rubber industry. S. E. Thompson and W. E. Freeland. Management & Adm 9:447-50 My '25

Power

What you want to know about oil as fuel in rubber plants. W. F. Schaphorst. il Rubber Age 16:79-83; Discussion. W: H. Larkin, jr. 83-7 N 10 '24

RUBBER floors. See Floors, Rubber

RUBBER gloves. See Gloves, Rubber

RUBBER goods
Branding, printing and ornamenting rubber goods. il India Rubber W 70:585-7 Je '24
New goods and specialties. See monthly numbers of India rubber world
New hard molded rubber compositions. India Rubber W 70:732 Ag '24
Rubber colors as trade-marks. W. Fawcett. Rubber Age 15:173-4 Je 10 '24
Rubber equipment of the Shenandoah. diag India Rubber W 73:69-70 N '25
Stretching the tying-mark to cover a full line of rubber products. W. Fawcett. Rubber Age 16:190-1 D 25 '24
Willard desulphurized rubber products. il India Rubber W 70:725-6 Ag '24

See also Corsets, Rubber; Dyes and dyeing—Rubber; Floors, Rubber; Fruit jar rings; Gloves, Rubber; Hose; Molds, Rubber; Rubber fabrics; Rubber tile; Shoes, Rubber; Telephone receivers; Tennis balls; Tires, Automobile

Testing

United States government master specification for rubber goods (methods of physical tests and chemical analyses). il U S Bur Stand Circ 232:1-42 '25

Transportation

How to reduce packing costs for hard rubber goods. il India Rubber W 72:467-8 My '25

RUBBER goods, Mechanical
Automatic production of hard rubber radio parts. il India Rubber W 70:722-3 Ag '24
Further experiments and experiences in connection with rubber as a jointing material for gas-mains. W. Hole. il diags Gas J (Lond) 166:899-901 Je 25 '24
Hard rubber pipe bits. il India Rubber W 72: 465-6 My '25
Manufacture of rubber-bond grinding wheels. E. Sheldon. il Am Mach 60:641-4, 777-80 My 1, 22 '24
Recent tests on rubber joint rings for gas mains. W. Hole. il diag Gas Age 55:149-51 Ja 31 '25
Rubber in modern airplanes. il diag India Rubber W 70:718-19 Ag '24
Rubber in the ceramic industry. E: W. Lawler. il India Rubber W 69:291-2 F '24
Rubber offset printing blankets. il diag India Rubber W 70:439-40 Ap '24
Rubber parts in radio instruments. il India Rubber W 70:443-5 Ap '24
Rubber sleeves protect propeller shafting from corrosion. P. E. Dampman. il India Rubber W 70:641-2 Jl '24; Same. Marine Eng 29:479-80 Ag '24
Standard specifications for rubber pump valves. Am Soc T M Standards 1923:124-6
Utility and durability of rubber as a jointing material for gas-mains. W. Hole. il diags Gas J (Lond) 164:504-8 N 21 '23; Abstract. Rubber Age 14:260-2 Ja 10 '24

See also Bearings, Rubber; Rollers, Printers'; Rolls (paper machines); Rubber lining; Shock absorbers

RUBBER growers' association
Annual report, 1924. Rubber Age 17:125-6 My 25 '25

RUBBER industry and trade
Adjustment of production and consumption. H. E. Miller. Rubber Age 15:138 My 25 '24
Balloon tires expected to increase rubber consumption. Automotive Ind 52:781 Ap 30 '25
British consumers of rubber start agitation for restriction removal. Rubber Age 17:123-4 My 25 '25
Conference held on crude control plan. Rubber Age 15:209+ Je 25 '24
Crude rubber situation. India Rubber W 72: 591-2 Jl '25
Crude rubber situation. H. N. Whitford. Ann Am Acad 112:149-53 Mr '24
Crude rubber survey. J. J. Blandin. map (supp) U S Bur For & Dom Com Trade Information Bul 180:1-24 '24
Crude rubber survey. J. Klein. Chem Age 31: 573-4 D '23
Dangers in the rubber situation. W. B. Mahony. Comm & Fin 14:1186-7 Je 17 '25
Evolution of the world rubber situation. H. S. Hotchkiss. Harvard Business R 2:129-38 Ja '24
Has the Stevenson restriction plan helped rubber? Can Chem & Met 9:47 F '25
J. D. Fletcher urges restriction removal. Rubber Age 17:153 Je 10 '25
Market as seen by a British factor. Rubber Age 17:129+ My 25 '25
Marketing plantation rubber. India Rubber W 69:366-9 Mr '24
1924 prospects for crude rubber. F: B. Peterson. Rubber Age 14:299 Ja 25 '24
Phases of the rubber restriction policy. D: M. Figart. Comm & Fin 14:1448 Jl 29 '25
Plantation rubber industry in the Middle East. D: M. Figart. il diags maps U S Bur For & Dom Com Trade Promotion Ser 2:1-317 [bibliog. p. 303-11] '25; Excerpt (Foreword and introduction). Rubber Age 17:201-5 Je 25 '25; Abstract. India Rubber W 72:595-7 Jl '25
Position of rubber. Comm M 6:12-15 S '24; Same. Econ W n s 28:369-70 S 13 '24
Present international position of rubber. Econ W n s 28:766-7 N 29 '24
Price fluctuations of rubber. Nat City Bank p 4-6 Je '25; Same. Econ W n s 29:837-9 Je 13 '25
Problem of future supplies of rubber. P. J. Burgess. Rubber Age 15:342-3 Ag 10 '24
Readjustment of rubber industry about completed. W. O. Rutherford. Comm & Fin 13: 61 Ja 9 '24
Relation of the automobile industry to international problems of oil and rubber. H. T. Collings. Ann Am Acad 116:254-8 N '24
Rubber and tire trade. Moody's Inv Serv 17: 293-6 S 3 '25
Rubber bill of the automobile. B: Benton. India Rubber W 70:458 Ap '24
Rubber boom. Economist 101:53-4 Jl 11 '25
Rubber industry. Moody's Inv Serv 16:389-90 O 23 '24
Rubber industry and the automobile. J. W. Drake. Ann Am Acad 116:258-61 N '24
Rubber position and outlook. Economist 99: 140-1 Jl 26 '24
Rubber—practically a consumer's monopoly. G: C. Cox. Annalist 23:503-4, 557+ Ap 28, My 12 '24
Rubber production. C. Kitson. Annalist 26: 539-40, 573+ O 30-N 6 '25
Rubber production and the Stevenson scheme. Economist 101:487-8 S 26 '25; Same. Econ W n s 30:585-6 O 24 '25
Rubber situation. Nat City Bank p 132-4 Ag '25
Rubber takes the center stage. F. Plachy, jr. il Burroughs Clearing House 9:17-19+ Ag '25
Rubber trade terms often common property. W. Fawcett. Rubber Age 15:423-4 S 10 '24
Secretary of commerce Hoover warns of rubber shortage by 1928 or 1930 as result of falling off in planting; abstracts. Comm & Fin Chr 120:2764-5 My 30 '25; Automotive Ind 52:959 My 28 '25
Situation in rubber. Index p 13-14 Je '25
Supply of crude rubber to meet the needs of American industry. R. A. Clemen. Econ W n s 28:258-60 Ag 23 '24
Supplying rubber manufacturers' textile needs. R. C. Kelley. il Textile World 66:1415-16 S 13 '24
Truth about the rubber crisis from the British point of view. Annalist 26:511+ O 23 '25
Uses of trade group information. A. R. Burnet. Rubber Age 16:15-18 O 10 '24
Why we pay $200,000,000 more for rubber this year. G. M. Stadelman. il Forbes 16:591-3 Ag 1 '25

See also Rubber goods; *also* Anglo-Dutch plantations of Java, limited; Gates rubber company, Denver; Goodyear tire and rubber company; United States rubber company

RUBBER industry and trade—*Continued*

Accounting

Accountancy in the rubber plantation industry. J. G. Hay. Rubber Age 15:98+ My 10 '24

Burden distribution in the rubber industry. H. G. Schnackel. Rubber Age 15:217-18+ Je 25 '24

Exhibitions

Many products exhibited at Brussels. Rubber Age 15:136-7 My 25 '24

Finance

Profits in the rubber industry. Nat City Bank p 60-1 Ap '24

Statistics

Analysis and forecast of the world's crude rubber consumption in comparison with production and stocks, annually to 1930. R. B. Prescott. 26p Rubber assn. of America, inc., New York '24

Colonial and foreign produce, 1924. Economist 100:sup34-5 F 14 '25

Graphical analysis of the world's rubber industry. India Rubber W 70:655 Jl '24

India rubber statistics. Published in monthly numbers of India rubber world and semi-monthly numbers of Rubber age

Market statistics. See monthly numbers of India rubber world

Production of rubber products increases. Rubber Age 16:19-20 O 10 '24

Rubber in 1923. Economist 98:331 F 16 '24

Rubber, 1921-1924. Survey of Cur Business 30: 88-9 F '24 [continued quarterly]

Rubber outputs. Economist 100:170 Ja 24 '25

Rubber outputs and dividends for four years. Economist 98:114, 891 Ja 19, Ap 26 '24

Rubber producing companies in 1923. Economist 98:1293-4 Je 28 '24

Rubber-producing companies. Economist 100: 1284-5 Je 27 '25

World's production and consumption of crude rubber. map India Rubber W 70:651-2 Jl '24

World's production of rubber standing still in face of increased consumption. Automotive Ind 51:891 N 20 '24

Bibliography

Source list of statistics of the rubber industry. E. B. Wray, comp. 9p 25c U.S. Rubber co. library, 1790 Broadway, New York '25

Canada

Rubber statistics for the Dominion of Canada. Published in monthly numbers of India rubber world

Florida

Commercial rubber production in the Everglades. Rubber Age 15:96 My 10 '24

Hevea planting experiments in Florida. il India Rubber W 72:521-3 Je '25; Same. Manuf Rec 87:75-7 Je 18 '25

True story of the Ford rubber plantation in southwest Florida. L. M. Drake. il Manuf Rec 88:96-7 N 5 '25

Germany

German rubber industry reported in unsatisfactory condition. Rubber Age 14:421-2 Mr 10 '24

German rubber trade suffers decline. Rubber Age 16:88 N 10 '24

Great Britain

British exports of rubber goods growing. E. G. Holt. Rubber Age 16:188+ D 25 '24

Dunlop rubber company, limited. Economist 98:1263-5 Je 21 '24

Restriction of rubber production; working of the Stevenson plan. Index p 10 Ap '24

Rubber production in the British Empire. Econ W n s 30:196 Ag 8 '25

Rubber, tea and cacao, with special sections on coffee, spices and tobacco. W. A. Maclaren. 334p [bibliog. p. 323-6] E. Benn, ltd., London '24

United Kingdom rubber statistics. Published in monthly numbers of India rubber world

Japan

Japan's rubber industry rapidly reviving. il India Rubber W 69:369-70 Mr '24

Rubber industry and trade of Japan. C. R. Cameron. U S Bur For & Dom Com Trade Information Bul 365:1-14 '25

Status of the Japanese rubber industry. Rubber Age 16:334 F 25 '25

Liberia

Liberian congress to lift export tax of 12 cents a pound on rubber. Rubber Age 18: 71-2 N 10 '25

Mexico

Hevea a success in Mexico. il India Rubber W 69:377 Mr '24

Netherlands

Status of the Dutch rubber industry. P. J. Van Hees. Rubber Age 15:222-3 Je 25 '24

Peru

Peru as a source of supply of crude rubber for the United States. Econ W n s 28:83 Jl 19 '24

Philippine Islands

Can the Philippines supply our rubber needs? N. Lyons. il Forbes 16:669-71 Ag 15 '25

Philippine rubber-growing possibilities. W. Robb. Rubber Age 16:150 D 10 '24

Philippines capable of producing 16% of world's rubber. map Automotive Ind 53:292-4 Ag 20 '25

Possibilities for para rubber production in the Philippine Islands. C. F. Vance and others. il maps U S Bur For & Dom Com Trade Promotion Ser 17:1-101 [bibliog. p. 100-1] '25; Abstracts. Rubber Age 17:338-40 Ag 25 '25; India Rubber W 72:709-12 S '25

Rubber industry in the Philippines. P. Rivera. il Rubber Age 17:304-5 Ag 10 '25

Rubber plantations in Mindanao. W. Robb. Rubber Age 18:56-7 O 25 '25

Urges change of Philippine land laws to permit rubber growing. N. Lyons. Rubber Age 17:299 Ag 10 '25

South America

Rubber production in the Amazon valley. W: L. Schurz and others. il maps U S Bur For & Dom Com Trade Promotion Ser 23: 1-369 [bibliog. p. 365-9] '25

South American rubber prospects. map Rubber Age 17:239 Jl 10 '25

Texas

Rubber grown commercially in the United States; guayule production in Texas. il India Rubber W 73:7 O '25

United States

Can America rely on Latin America for its rubber supply?—O: Wilson. il Chem & Met Eng 31:498-500 S 29 '24

Census of rubber manufactures, 1923. India Rubber W 71:16-17 O '24

Consumption of crude rubber in the United States, January to July, 1925. Econ W n s 30:412 S 19 '25

Demand in rubber goods trade increases. Dun's R 32:8-9 S 13 '24

Exports of India rubber manufactures from the United States by countries. Published in monthly numbers of India rubber world

Favorable situation in rubber goods trade. Dun's R 33:8-9 Ja 17 '25

Improved situation in rubber goods trade. Dun's R 32:8+ Ja 19 '24

Increase in rubber production between 1921 and 1923. Comm & Fin Chr 119:1570-1 O 4 '24

Increased sales of rubber goods reported. Dun's R 33:8-9 Ag 15 '25

Increasing distribution of rubber goods. Dun's R 33:8-9 Ap 18 '25

Our export rubber markets in 1923. Rubber Age 14:379 F 25 '24

RUBBER industry and trade—United States—*Continued*
Our rubber industry; use, price and supply. C. Kitson. Annalist 26:215+ Ag 21 '25
Retaliatory measures might result from common purchasing agency. Rubber Age 15:17-18 Ap 10 '24
Rubber and tire companies. Moody's Inv Serv 17:185-6 Je 4 '25
Rubber and tire trade. Moody's Inv Serv 16: 73-6 F 14 '24
Rubber companies. Moody's Inv Serv 17:138 Ap 23 '25
Rubber goods exports larger than in 1923. Comm & Fin Chr 119:2474 N 29 '24
Rubber goods trade shows improvement. Dun's R 32:9+ My 17 '24
Rubber trade in America. Economist 98:998-9 My 17 '24
Two attractive rubber stocks: Hood rubber common; Miller rubber common. Moody's Inv Serv 17:23 Ja 15 '25
United States exports of rubber goods—1924. E. G. Holt. India Rubber W 72:527-9 Je '25
United States imports and consumption of crude rubber, January to October, 1924. Econ W n s 29:15 Ja 3 '25
United States rubber industry. India Rubber W 70:789-90 S '24
Use of statistics of rubber-goods exports. U S Bur For & Dom Com Trade Information Bul 172:1-10 '23
What it would cost America to produce her own rubber. D. Kersken. India Rubber W 70:507-8 My '24

RUBBER laboratories
Rubber works laboratory. plan India Rubber W 69:229-30 Ja '24
Technical rubber laboratory. il India Rubber W 71:152 D '24
Typical rubber service laboratory. il India Rubber W 72:723 S '25

RUBBER lining
Further developments in rubber-lined acid tanks. il Chem & Met Eng 31:234-5 Ag 11 '24
Manufacture of cotton rubber lined fire hose. il diag India Rubber W 72:405-6 Ap '25
Rubber better than steel for launder lining. R. L. Naish. il Eng & Min J 117:22 Ja 5 '24
Rubber grinding mill linings and rubber as a material to resist abrasion. B. W. Rogers. Am Cer Soc J 8:326-8 My '25
Rubber in the ceramic industry. E: W. Lawler. il India Rubber W 69:291-2 F '24
Rubber—its growing importance in metallurgical industry. il Eng & Min J 118:476-7 S 20 '24
Rubber lined ball mills in mining and cement industries. il India Rubber W 69:153-4 D '23; Same abr. Concrete 24:sup47 Mr '24
Rubber linings for laboratory pebble mills. E. W. Lawler. il India Rubber W 70:511-12 My '24
Rubber tube mill linings tried on the Rand. Eng & Min J 118:490 S 27 '24
Tank cars for transportation of muriatic acid. J. M. Rowland. il Am Inst Chem Eng Trans v 14:135-42; Discussion. 143-4 '21-'22
Transport, storage and distribution of hydrochloric acid, with an account of a complete modern installation. D. M. Newitt. bibliog il diags plan Soc Chem Ind J (Chem & Ind) 43:186-94 F 22 '24; Excerpts. India Rubber W 71:15-16 O '24

See also Bearings, Rubber

RUBBER machinery
Machine molding hollow rubber articles. il diags India Rubber W 70:509-10 My '24
New machines and appliances. See monthly numbers of India rubber world
Replacing rubber footwear machinery. R. Polleys. India Rubber W 71:5-6 O '24
Rubber machinery depreciation. R. Polleys. India Rubber W 71:217-18 Ja '25
Rubber machinery or hand labor? R. Polleys. India Rubber W 70:581-2 Je '24

See also Tubing machine

RUBBER molds. See Molds, Rubber

RUBBER pavements. See Pavements, Rubber

RUBBER plants and planting
Americans to grow rubber in Liberia. map India Rubber W 77:650-2 Ag '25
Can America rely on Latin America for its rubber supply? O: Wilson. il Chem & Met Eng 31:498-500 S 29 '24
Contour terracing in hevea planting. J: C. Treadwell. il India Rubber W 73:71-2 N '25
Cover crops and clean weeding. N. Bingley. Rubber Age 15:97-8 My 10 '24
Cryptostegia grandiflora a possible source of commercial rubber. C: S. Dolley. India Rubber W 71:339-40 Mr '25
Hevea planting experiments in Florida. il India Rubber W 72:521-3 Je '25; Same. Manuf Rec 87:75-7 Je 18 '25
Hevea planting in the Congo. il India Rubber W 71:85-6 N '24
Para rubber in Camarines and Albay. A. W. Prautch. Rubber Age 16:407 Mr 25 '25
Philippines suitable for rubber culture. Rubber Age 15:127+ My 25 '24
Plan for encouraging American grown rubber. India Rubber W 73:3-4 O '25
Possibilities of rubber production in America. C. De Kalb. Manuf Rec 85:103-4 Je 5 '24
Present status of hevea bud-grafting. il India Rubber W 70:793-4 S '24
Raising rubber in California. il India Rubber W 71:71-2 N '24
Rubber production in the Amazon valley. W: L. Schurz and others. il maps U S Bur For & Dom Com Trade Promotion Ser 23:1-369 [bibliog. p. 365-9] '25

RUBBER plywood. See Plywood

RUBBER proofing
Solvent recovery problems; the question of economy in rubber proofing. Chem Age (Lond) 11:292 S 20 '24

RUBBER research
Hevea planting experiments in Florida. il India Rubber W 72:521-3 Je '25; Same. Manuf Rec 87:75-7 Je 18 '25
Rubber industry continues research. Chem & Met Eng 32:101-2 Ja 19 '25
Thermatomic service laboratories. il India Rubber W 71:14 O '24

See also Rubber laboratories

RUBBER rings. See Fruit jar rings

RUBBER shoes. See Shoes, Rubber

RUBBER soles. See Soles, Rubber

RUBBER tile
Interlocking rubber tiling. il diag India Rubber W 72:593-4 Jl '25
Rubber tile feature joints. E. Swanson. diags India Rubber W 71:212 Ja '25

RUBBER tires. See Tires, Automobile; Tires, Motor truck

RUBBER waste
Compounding with devulcanized waste. Rubber Age 15:380 Ag 25 '24
High-priced rubber will cause greater use of reclaimed rubber. E. G. Holt. Rubber Age 17:237-8 Jl 10 '25
Manufacture of reclaimed rubber. il India Rubber W 72:588-90 Jl '25
Practical rubber saving. J. J. Johnson. India Rubber W 72:717-18 S '25
Reclaimed rubber in compounding. India Rubber W 69:378-9 Mr '24
Reclaiming rubber service laboratory. il India Rubber W 70:717 Ag '24
Regeneration of vulcanized rubber. A. Dubosc. Rubber Age 15:172+ Je 10 '24
Rubber saving in reclaiming. il India Rubber W 73:68 N '25
Scrap rubber industry. il India Rubber W 72: 533-4 Je '25
Tire retreads made from scrap rubber. diags India Rubber W 73:74 N '25
Willard devulcanizing process for reclaiming rubber. Chem & Met Eng 31:347 S 1 '24

RUBIDIUM
Determination of the vapour pressures of caesium and rubidium, and a calculation of their chemical constants. D. H. Scott. diag Philos Mag 6th ser 47:32-50 Ja '24

RUBIDIUM—*Continued*
Low-voltage arcs in rubidium and cæsium vapours. F. H. Newman. Philos Mag 6th ser 50:463-70 Ag '25

RUBIDIUM chloroplatinate
Solubilities in water of rubidium and cesium chloroplatinates. E. H. Archibald and L. T. Hallett. Am Chem Soc J 47:1314-18 My '25

RUBIDIUM halides
Compressibilities of the chlorides, bromides and iodides of lithium, rubidium and cesium. T. W. Richards and E. P. R. Saerens. diag Am Chem Soc J 46:934-52 Ap '24

RUBIDIUM hydroxide
Studies on the swelling of cotton cellulose. G: E. Collins. Textile Inst J 16:T123-6 My '25

RUDDERS
Flettner rudder. diags Marine Eng 30:147 Mr '25
New rudder of flow-operated type. il diag Marine R 53:472-3 D '23
Unbalanced rudders of twin-screw ships. Engineering 117:243 F 22 '24
See also Steering

RUGS
Carpets and rugs. R. Beaumont. 426p Van Nostrand '24
Fastness and cleaning of floor coverings. C: F. Goldthwait. Textile Col 47:37-9 Ja '25
Hooked rugs and how to make them. A. M. L. Phillips. 154p Macmillan '25
Manufacture of wool carpets and rugs in the United States in 1923. Econ W n s 27:627 My 3 '24
Rug industry in Peking, China. Monthly Labor R 20:237-40 F '25
Three generations' teamwork does the impossible; C. H. Masland & sons. W: A. McGarry. Forbes 16:98-100 My 1 '25
Wool floor covering industry in the United States. Comm M 6:22-30 Jl '24

Advertising
New tools in the salesman's kit; Bird & son develop a merchandising plan. A. Belden. il Ptr Ink 127:121-4 Je 12 '24

RUGS, Oriental
Trade-mark serves as oriental rug standard. Ptr Ink 127:157-8 Je 5 '24

RUHR valley
Ruhr now liability instead of an asset. Oil Paint & Drug Rep 104:20 D 31 '23
See also Coal mines and mining—Ruhr valley; Water supply—Ruhr valley

French occupation
Evacuation of Ruhr cities and districts. Comm & Fin Chr 121:275, 658 Jl 18, Ag 8 '25
L'exploitation de chemins de fer en Allemagne occupée, par la Régie franco-belge. Génie Civil 85:274-7 S 27 '24
French occupation of the Ruhr. Ref Shelf 2: 1-119 no 4 '24
Net return derived by France and Belgium in 1923 from the occupation of the Ruhr. Econ W n s 27:739 My 24 '24
The Ruhr losses. H. Hermanns. il maps Blast F & Steel Pl 11:566-8 N '23
Les services d'exploitation directe organisés dans la Ruhr par la Mission interalliée du contrôle des usines et des mines. P. Séverac. map Génie Civil 86:5-9, 33-5 Ja 3-10 '25

Industries and resources
L'évolution de l'industrie sidérurgique allemande des territoires occupés, et particulièrement de la Ruhr. Tonus. Génie Civil 85: 172-5, 189-92 Ag 23-30 '24
Organisationsfragen der rheinisch-westfälischen industrie; umorganisierung in horizontaler und vertikaler richtung. A. Heinrichsbauer. Stahl & Eisen 44:96-100 Ja 24 '24
Ruhr iron and steel industry under the Dawes plan. C. K. Leith. Eng & Min J 119:597-8 Ap 11 '25

Sanitary affairs
Water supply and sewage disposal in the Ruhr valley. K. Imhoff. il maps Eng N 94: 104-6 Ja 15 '25

RUHRORT, Germany
Harbor
Die Duisburg-Ruhrorter häfen. Germanus. il diags Zeit Ver Deutsch Ing 69:1213-20 S 19 '25

RULE of the road
Rules of the road and how to enforce them to increase safety. T. H. Carrow. Munic & Co Eng 67:203-6 O '24

RUMANIA
Rumania, an economic handbook. U S Bur For & Dom Com 222:1-167 '24
See also Banks and banking—Rumania; Cost of living—Rumania; Debts, Public—Rumania; Finance—Rumania; Insurance—Rumania; Mines and mineral resources—Rumania; Petroleum—Rumania; Petroleum industry and trade—Rumania; Petroleum laws and regulations—Rumania

Economic conditions
Roumania's economic and financial situation. N. Petrescu. map Bankers M 109:49-55+ Jl '24

Industries and resources
Roumania plays host to chemists; 6th annual conference of International union of pure and applied chemistry. G. L. Wendt. il Chem & Met Eng 32:679-81 Ag '25

RUMSEY, James, 1743-1792
Famous machinists of history. H. H. Manchester. Am Mach 61:545 O 2 '24

RUN-off
Coefficient of run-off in storm sewer design. L. K. Sherman. Munic & Co Eng 66:297-301 Je '24
Flood flow characteristics. C. S. Jarvis. il Am Soc C E Pro 50:1545-81, pl 8 D '24; Discussion. 51:902-8, 1118-54 My, Ag '25
Flood flows or maximum runoffs of Montana streams. G: H. Ellis. Eng N 91:1016-17 D 20 '23; Discussion. J: F. Stevens. 92:88 Ja 10 '24
Intensity of rainfall and consequent runoff from a catchment. J. W. Meares. Engineering 117:40-2 Ja 11 '24
Is runoff dependent on precipitation? Eng N 98:871 My 15 '24
Precipitation and runoff at the continental divide. J. E. Church, jr. and E. H. Jones. Eng N 94:190-5 Ja 29 '25; Discussion. 94: 195, 408 Ja 29, Mr 5 '25
Precipitation and runoff near the continental divide. R. E. Horton. diags map Eng N 92:355-8 F 28 '24; Correction. 92:502 Mr 20 '24
Probability methods for rainfall and run-off. S. L. Moyer. Eng N 94:906 My 28 '25; Discussion. 94:1071, 95:74 Je 25, Jl 9 '25
Rainfall and run-off in connection with sewer design. J. G. Caron. il Eng & Contr (W W) 64:575-86 S 9 '25
Snow density in relation to runoff. Eng N 92:234 F 7 '24
Spring run-off—its cause and intensity; flood conditions in the Red River valley. J. C. D. Taylor. maps Can Eng 47:169-74 Jl 22 '24
Surface yield from a hydrographical basin. Engineering 117:193-5 F 15 '24

RUNWAYS
Runways and telphers v. automatic trucks. Cassier's Ind Management 12:197-8 Mr '25

RURAL credit. See Agricultural credit

RURAL free delivery
Rural mail, great national builder. Am Ind 25:11-12 F '25

RURAL hygiene. See Hygiene, Rural

RURAL transportation. See Transportation

RURAL water supply. See Water supply, Rural

RUSH order. See Schedules

RUSKIN, John
Ruskin as a critic of architecture. C: H. Moore. Arch Rec 56:117-22 Ag '24

RUSSELL, Reuben James, 1872-
Portrait. Elec W 82:1154 D 8 '23

RUSSELL, Burdsall & Ward bolt & nut co., Port Chester, N.Y.
"Tell truth" retains employes. E. C. Kreutzberg. Iron Tr R 47:1357-60 My 22 '24

RUSSIA
No longer a nation but an idea. E. A. Walsh. Am Bankers Assn J 18:25-6+ Jl '25
Recognition of soviet Russia. J. G. Hodgson, comp. Ref Shelf 2:1-111 [bibliog. p. 13-30] no 10 '25
Slavonic nations of yesterday and today. M. S. Stanoyevich. 415p [bibliog. p. xiii-xlvi] H. W. Wilson co. '25

See also Insurance—Russia; Radio communication—Russia; Railroads—Russia

Commerce
England's trade with Russia. L. J. Lewery. U S Bur For & Dom Com Trade Information Bul 199:1-11 '24
Finance and industry in soviet Russia. L. J. Lewery. U S Bur For & Dom Com Trade Information Bul 244:1-21 '24; Abstract. Ptr Ink 129:69-70+ O 9 '24
Foreign commerce of soviet Russia in 1922-1923. Econ W n s 27:16 Ja 5 '24
Foreign commerce of soviet Russia in 1923. L. J. Lewery. Econ W n s 27:622-3 My 3 '24
Foreign trade of soviet Russia. Economist 100:sup11 F 28 '25
Place of soviet Russia in international trade. E. M. Miller. Econ W n s 28:152-4, 187-90 Ag 2-9 '24; Same. Comm M 6:3-15 Ag '24
Private trade small in Russia. Am Ind 24:44 Jl '24
Russia developing a new foreign trade. Comm & Fin Chr 118:2511 My 24 '24
Russian trade in 1923. Bradstreet's 52:344 My 24 '24
Russian trade movements. Economist 100: 1281-2 Je 27 '25
Russia's big program. R. C. Long. il Am Bankers Assn J 18:347-8+ N '25
Russo-British trade before the war. Economist 99:372-3 S 6 '24
Soviet Russia's foreign trade. Comm & Fin Chr 121:1416 S 19 '25
Soviet stifles Russia's trade. F. C. Chappell. Annalist 23:289-90 Mr 3 '24
Trade of United States with Russia growing. Comm & Fin Chr 121:660 Ag 8 '25

See also Coal trade; *also* Amtorg trading corporation

Economic conditions
Draining away Russia's capital. J. Landfield. Am Bankers Assn J 17:305-6 N '24
Problems of the Russian economic situation. Economist 99:766-7 N 15 '24
Reforging of Russia, by E: W. Hullinger. Review. Comm & Fin Chr 120:1138-9+ Mr 7 '25
Russia and peace. F. Nansen. 162p Macmillan '24
Russia as seen by one who knows her. S. Bell. Comm & Fin 13:1733-4 S 17 '24
Russia today; the official report of the British trade union delegation. 284p International publishers, New York '25
Russian debts and Russian reconstruction. L. Pasvolsky and H. G. Moulton. 247p McGraw-Hill '24
Russian loan. Economist 99:407-8 S 13 '24
Truth about Russia industrially. I. J. Sherman; I. T. Bush; E. D. Durand. Am Ind 24:9-14 Je '24

See also Banks and banking—Russia; Budget—Russia; Cooperation—Russia; Debts, Public—Russia; Finance—Russia; Housing—Russia; Labor and laboring classes—Russia; Money—Russia; Taxation—Russia; Trade unions—Russia; Wages—Russia

Economic history
Economic history of Russia. J. Mavor. 2d ed., rev. and enl. 2v Dutton '25

Economic policy
Soviet Russia admits securities for quotation on Russian stock exchanges. Comm & Fin Chr 119:1237 S 13 '24

Foreign relations

France
France recognizes Russian soviet government. Comm & Fin Chr 119:2021-2 N 1 '24

Great Britain
Anglo-Russian treaties. Index p 10-11 O '24
Anglo-Soviet conferences. Index p 11-12 Jl '24
Signing of Anglo-Soviet treaty in London—proposed loan. Comm & Fin Chr 119:899-900 Ag 23 '24

United States
Russian situation and America's relation thereto. J. A. Frear and others. Ann Am Acad 114:49-96 Jl '24

Industries and resources
Foreign capital investments in Russian industries and commerce. L. J. Lewery. U S Bur For & Dom Com misc ser 124:1-28 '23
Russia's industrial programme. Economist 101:sup23+ S 26 '25

See also Aeronautics, Commercial—Russia; Agriculture—Russia; Automotive industries—Russia; Chemical industries—Russia; Coal mines and mining—Russia; Cotton—Russia; Dye industry—Russia; Electric industries—Russia; Electric plants (central stations)—Russia; Electricity supply—Russia; Iron industry and trade—Russia; Machine tool industry—Russia; Mines and mineral resources—Russia; Mining industry and finance—Russia; Paper industry and trade—Russia; Petroleum—Russia; Petroleum industry and trade—Russia; Potash—Russia; Sugar industry and trade—Russia; Textile industry—Russia

Politics and government
Complete public ownership and operation in Russia. P. S. Clapp. N E L A Bul 12:355-9 Je '25
Russia ended socialism for me. J. H. Rubin. Nation's Business 12:13-15 F '24; Discussion. 12:105 My '24

RUST. See Corrosion and anti-corrosives

RUTHENIUM
Potassium chlororutheniates and the coordination number of ruthenium. S. H. C. Briggs. Chem Soc J 127:1042-8 My '25

RUTHENIUM dichloride
Ruthenium dichloride. J. L: Howe, J. L. Howe, jr. and S. C. Ogburn, jr. Am Chem Soc J 46:335-42 F '24

RUTHERFORD, Ernest
Presentation of the Franklin medal and certificate of honorary membership. por J Fr Inst 198:366-90 S '24

RUTHS' steam accumulator. See Steam accumulators

RUTILE
Crystal structure of cuprite and rutile. G Greenwood. Philos Mag 6th ser 48:654-63 O '24
Industrial uses of titanium. Chem & Met Eng 30:831 My 26 '24
Little known mineral storehouse in Georgia; Graves mountain. Eng & Min J 118:732 N 8 '24
Marketing of titanium ores. R. B. Williams. Eng & Min J 117:645-6 Ap 19 '24

RUTLAND railroad
Annual report, 58th, Dec. 31, 1924. Comm & Fin Chr 120:2932 Je 6 '25

RYAN, Dan
Sketch. por Foundry 53:844+ O 15 '25

S

SABIN, Alvah Horton
Sketch. Ind & Eng Chem 17:212 F '25

SABINE Lake, Texas
Deep canal has curious effect on salt content of shallow lake; salt water found to travel more quickly in canal than in open lake. map Eng N 93:10-11 Jl 3 '24

SACCHARIN
Artificial saccharin substances; synthesis of diphenyl 4:4′-dicarboxy-3:3′-sulphimide. L. Harding. Soc Chem Ind J 44:138-40 Mr 27 '25
Chemistry of synthetic sweetening compounds. G. M. Dyson. Chem Age (Lond) 11:572-4 D 6 '24
Handbuch der saccharin-fabrikation. O. Beyer. 143p Rascher & co., Zürich u. Leipzig '23

SACCHARINIC acids
C_4-saccharinic acids; the preparation of *dl*-1,2-dihydroxy-isobutyric acid and a study of some of its derivatives. J. W. E. Glattfeld and L. P. Sherman. Am Chem Soc J 47:1742-51 Je '25

SACCHAROMYCES. See Yeasts

SACHS, Joseph, 1870-
Portrait. Elec W 82:1000 N 17 '23

SACRAMENTO, California
Report favors proposed ship canal for Sacramento. Eng N 94:683 Ap 23 '25

Water supply

Experience with wood-grating in Sacramento filters. H. N. Jenks. il Eng N 94:634-5 Ap 16 '25
New $3,000,000 filtration plant of Sacramento, Cal. A. Givan. Eng & Contr (W W) 61:89-91 Ja 9 '24
Sacramento filter plant report advises extensive repairs. Eng N 94:639 Ap 16 '25
Sacramento's filtration plant. il Pub Works 55:51-4 F '24
Sacramento's pure water. I. Engler. il Pub Serv Management 36:40-1 F '24

SADTLER, Samuel Philip, 1847-1923
Sketch. por Chem & Met Eng 29:1197 D 31 '23; Ind & Eng Chem 16:195 F '24

SAFE deposit companies
Safe deposit companies and the law. H: S. Fraser. Bankers M 110:819-21 My '25

SAFE deposits
April was safe deposit month. I. I. Sperling. il Burroughs Clearing House 10:15-16+ N '25
Attachment of contents of safe deposit box. Bankers M 111:28-30 Jl '25
Bank's greatest liability. R. D. Slaymaker. Burroughs Clearing House 8:9+ Ja '24
Banks' liability for burglary of safe deposit boxes. T: B. Paton. Am Bankers Assn J 17:36-8 Jl '24
Distinguishing touches in safe deposit. A. R. Bird. il Burroughs Clearing House 9:18-20 Ja '25
Personal side of the safe deposit business. M. D. Miller. Bankers M 108:363-7 Mr '24
Renting safe deposit boxes. W. E. Walker. Bankers M 109:40-2 Jl '24
See, hear and buy. D. K. Snow. il Burroughs Clearing House 9:10-11 My '25
What to do till the burglar comes: bank's liability. A. F. McCarty. Burroughs Clearing House 8:14-16 Je '24

SAFES
Latest developments in bank burglary. E: H. Smith. il Sci Am 131:393-5 D '24
Manufacturer adapts new safe to service stations. il Nat Pet N 17:71 F 18 '25
More fire resistive safes needed. Safety Eng 49:36-7 Ja '25
Notable manuscript fire. il Safety Eng 48:236-8 D '24
There are no Jimmy Valentines. E. J. Goodnough. il Sci Am 133:26-7 Jl '25
See also Records, Care of

SAFES, Concrete
Fortis reinforced concrete safes and strong room doors. il diags Engineering 117:72-3 Ja 18 '24; Concrete 25:98 S '24

SAFETY at sea
Educating the seagoing workman in safety. W. E. Welch. il Nat Safety N 8:31-3 O '23
How to reduce ship accidents. R. F. Hand. Marine R 54:400-1 O '24
Mechanical problems of safety at sea. W. S. Abell. Engineer 136:500-1 N 9 '23; Abstract. Engineering 116:600-1 N 9 '23
Need for safety on the sea. il Safety Eng 50: 203-6 O '25
Posterizing safety aboard ship. R. F. Hand. il Nat Safety N 10:27-8 My '24
Practical safety supervision in the merchant marine. R. F. Hand. il Nat Safety N 11:25-6 Ja '25
Safeguarding the lives of lake seamen. G: A. Marr. Marine Eng 29:640-1 N '24
Safety of life at sea. Engineering 118:587 O 24 '24
Self-igniting water lights. il Sci Am 131:45 Jl '24
Uses of all purpose canister gas mask at sea. L. M. McBride. il diag Nat Safety N 8:27-8 N '23

See also Depth indicator; Fog signals; Ice patrol service; Life saving apparatus; Lifeboats; Lighthouses; Lightships; Navigation; Pilots and pilotage; Safety committees on ships; Ships—Fires and fire protection; Ships—Stability

SAFETY bonus
Award system as a means of preventing accidents. G: B. Anderson. il Nat Safety N 8:21-2 N '23
Award system as a stimulant to safety effort. G. T. Hellmuth. Nat Safety N 12:23-4 D '25; Abstract. Elec Ry J 66:558 O 3 '25
Bonus system reduces accidents. Elec Ry J 64:198 Ag 9 '24
Dual accident-prevention plan in Birmingham, Ala. Elec Ry J 64:316 Ag 30 '24
Safety bonus in metal mining. F. C. Gregory. U S Bur Mines Rep of Invest 2617:1-3 Je '24 (typew); Same. Blast F & Steel Pl 12:498-9 N '24; Abstract. Monthly Labor R 19:655-7 S '24
Where street car safety swells the bonus. C. L. Smith. Nat Safety N 9:11-12 F '24

SAFETY bulletins
Bulletin board—an indispensable safety advertiser. R. T. Solensten. il Nat Safety N 8:21-3 D '23; Same abr. Iron Tr R 73:1553-4 D 6 '23
Camera as an aid to safety. W. F. Sterne. il Nat Safety N 8:17-18 N '23
How to advertise the safety idea. R. T. Solensten. il Ind & Eng Chem 17:667-9 Jl '25
Psychology and mine safety. R. V. Ageton. Nat Safety N 10:32 Ag '24
Safety bulletins; report of Pacific coast electrical association. J Elec 54:430 Je 1 '25
Safety in jingles by the Carnegie company. Iron Age 116:472 Ag 20 '25
Where do safety bulletin boards attract most attention? il Coal Age 26:260 Ag 21 '24

SAFETY cars. See Street cars—One-man cars

SAFETY codes
Aeronautical safety code completed. Aviation 18:600 Je 1 '25
American aeronautical safety code. A. Halsted. il Nat Safety N 10:27-9 S '24
Code of safety rules and safe practices; report of Pacific coast electrical association. J Elec 54:430 Je 1 '25
Committee on municipal and state regulations for refrigerating plants and refrigerants. Refrig Eng 10:440-2 Je '24
Construction safety code. F. L. Hurlbutt. Nat Safety N 8:35 D '23
Safeguarding power transmission equipment. D. C. Wright. Am Mach 62:535-7 Ap 2 '25
Safety code for elevators, dumbwaiters, and escalators. Mech Eng 47:219-21 Mr '25
Safety code for forging. il diag Nat Safety N 9:55-61 Je '24

SAFETY codes—*Continued*
Safety code for mechanical power-transmission apparatus. diags U S Bur Labor Statistics Bul 364:1-30 '24
Safety code for the protection of industrial workers in foundries. U S Bur Labor Statistics Bul 336:1-12 '23
Safety code for the use, care, and protection of abrasive wheels. U S Bur Labor Statistics Bul 338:1-20 '23
Safety code for woodworking plants. U S Bur Labor Statistics Bul 378:1-18 '25
Stimulating interest through safety code questionnaires. R. E. Paris. Nat Safety N 11:33-4 Ap '25
See also National electrical safety code

SAFETY committees
Bill of fare for the starving safety committee. F. E. Morris. Nat Safety N 10:25-6 D '24
Organizing for safety work. G: Hodge. Iron Tr R 77:961-3 O 15 '25
Planning for safety. R. B. Sherman. Textile World 66:1883+ O 4 '24
Providing perpetual pep for the safety organization. C. H. Liebfried. Nat Safety N 10:30-1 S '24
Take care of the workman. H. S. Riggs. il Am Mach 62:17-19 Ja 1 '25
3891 men—95 days; perfect record established at Joliet steel works. Blast F & Steel Pl 12:233-5 My '24

SAFETY committees on ships
Safety committees reduce accidents on lake vessels. G: A. Marr. Marine Eng 29:209-10 Ap '24

SAFETY contests
Competing plants in safety contest. G: A. Brayton. il Iron Tr R 75:482-3 Ag 21 '24
Employee contest for lowering accidents. Elec W 84:324-5 Ag 16 '24
Getting the safety idea over. J. E. Bullard. Am Mach 59:948 D 27 '23
Inter-departmental safety competition. W. J. Hockett. Safety Eng 50:131-3 S '25
New method of taking up safety work with employees. R. A. Sears. Elec Ry J 66:650-2 O 10 '25
Nineteen plants reduce accidents in city-wide contest. C. H. Hultzen. il Nat Safety N 10:29-30 N '24
Pullman workers slash accidents in May drive. il Nat Safety N 12:35 Jl '25
Safety contest between the American rolling mill company, Middletown, Ohio, and the mills of the Andrews interests. il Nat Safety N 10:28-9+ Jl '24
Safety contest results in a tie; Kentucky and Ohio steel makers engage in unique rivalry. il Iron Age 113:1850-2 Je 26 '24
Safety meeting at Fisk rubber plant that never adjourned. G: E. Wallis. il Nat Safety N 11:5-9 Ap '25
This put life into our safety contest. il Factory 33:519 O '24
Two companies compete in safety contest. J. E. Jordan. il Elec W 85:985 My 9 '25
United States rubber company's safety contest. A. C. Carruthers. Safety Eng 48:214-15+ N '24

SAFETY council, Massachusetts. See Massachusetts—Safety council

SAFETY councils
Community safety councils and automobile accidents. diag Nat Safety N 10:25-6 S '24
Community safety councils meet in quarterly conference. Nat Safety N 11:39-40 Ap '25

SAFETY departments
Relation of plant medical and safety departments. G. H. McKinstry. Nat Safety N 9: 8 Ja '24
Safety department and the foreman. B. Cater. Nat Safety N 10:40 S '24
Safety department's allies in accident prevention. B. B. McCulloch. Nat Safety N 12: 9-10 Ag '25
Safety organization for the small plant. C. B. Auel. Nat Safety N 12:17-19 Ag '25

SAFETY devices and measures
Accident prevention as a means of increasing productive efficiency. il Chem & Met Eng 32:209-11 F 2 '25
Accident prevention—labor's views. J. H. Maurer. Safety Eng 48:174-7 O '24
Accident prevention system. K. C. Monroe. il Mach 31:291 D '24
Accident prevention that prevents. L. W. Thompson. il Factory 34:426-9+ Mr '25
Around the clock with safety at Big Ben's home. C. T. Fish. il Nat Safety N 10:11-14 D '24
Ask the man who works there; safe working conditions at Packard factories. C. T. Fish. il Nat Safety N 8:17-19 O '23
Chatham works, I.H.C., celebrates perfect safety year. Nat Safety N 11:11-12 F '25
Common accidents easy to avoid. il Sci Am 132:22 Ja '25
Conservation of the human element. W. B. Hall. Safety Eng 46:301-7 D '23
Co-operation in accident prevention. J: Lundrigan. Safety Eng 49:1-5 Ja '25
Eliminating factory casualties. Electrician 92:548 My 2 '24
Elimination of accidents by the use of conveyors. F. D. Campbell. Safety Eng 47:98-100+ F '24; Same. Nat Safety N 9:41-2 Mr '24; Same cond. Blast F & Steel Pl 12:191-2+ Ap '24
From grain elevator to carton; Shredded wheat company. J: M. Sandel. il Nat Safety N 11:5-6 Je '25
Human element, the important factor in safety. H. H. Purkhiser. Concrete 24:sup 44-6 Mr '24
Improving a good record. W: H. Steele. Nat Safety N 12:42 Jl '25
Industrial safety in Great Britain. W. H. Gordon. il Safety Eng 48:121-2+ S '24
It never can happen again. A. R. Wendell. il Factory 35:565 O '25
Maintaining interest in safety. il chart Nat Safety N 12:45-50 Jl '25
Maintaining interest in safety. C. B. Auel. Nat Safety N 11:17-20 Mr '25; Same. Rubber Age 17:19-21 Ap 10 '25; Same abr. Iron Tr R 76:756-8 Mr 19 '25; Same abr. Foundry 53:729-31 S 15 '25; Same abr. Gas Age 57:17-19+ Ja 2 '26
Modern maintenance of plant and equipment. W: G. Ziegler. il Ind Management 68:6-13 Jl '24
Most important factor for safety work in the plant. J: F. Tinsley. Monthly Labor R 21: 247-9 Ag '25
Most important factor in safety work; views of industrial executives. Nat Safety N 8:31 N '23
Pioneering in safety work. H. M. Webber. Nat Safety N 12:33-4 O '25
Place for safety. L. A. Deblois. Mech Eng 47: 34-6 Ja '25
Pointers on directing attention in safety work. H. W. Donald. diags Ind Eng 82: 478-82 O '24
Preventing industrial accidents by engineering improvement. S. H. Kershaw. Nat Safety N 8:41-2 O '23; Same. Can Eng 46: 125-6 Ja 8 '24
Preventing injuries in building utility plants. J. A. P. Crisfield. Gas Age 52:727-31+ D 15 '23; Same cond. Power Pl Eng 27:1029-31 O 15 '23
Public utility accidents—their causes and remedies. C. J. Rutland. Nat Safety N 8: 13-15 D '23
Putting a premium on safety; fewer accidents at the American steel & wire co. plants. J: Nelson. Iron Age 116:269-71 Jl 30 '25
Reducing accident risks. il Factory 32:499-500+ Ap '24
Reducing breakdowns and lost-time accidents in a large food products plant. R. R. Thomson. il Ind Eng 83:118-22+ Mr '25
Report of committee number twenty-five, safety. Eng Educ 14:608-12 Je '24
Responsibilities and activities of the maintenance department in industrial safety. H. W. Donald. Ind Eng 82:321-5 Jl '24

SAFETY devices and measures—*Continued*

Rules for the safe handling of gas cylinders. Am Mach 60:424 Mr 20 '24; Same. Chem Age 32:129-30 Mr '24; Same. Chem & Met Eng 30:545 Ap 7 '24; Same. Chem Age (Lond) 10:571 My 31 '24

Safeguarding safety work. C: B. Scott. Nat Safety N 11:37 Mr '25

Safety engineer's duties and responsibilities. G. E. Sanford. il diag Safety Eng 47:307-10 Je '24

Safety first competition. H. L. Needham. il Ry Mech Eng 99:626 O '25

Safety—Gary works dinner—records. W. P. Gleason. Blast F & Steel Pl 13:282-4 Jl '25

Safety in a public utility. F. K. Singer. Am Management R 14:151-2 My '25

Safety in gasoline manufacture a matter of educating workmen. C. L. Swim. Nat Pet N 17:77+ My 6 '25

Safety in the operation of pulverized-fuel systems; discussion. il Mech Eng 47:115-17 F '25

Safety in the Westinghouse plants. Safety Eng 48:168-71 O '24

Safety 'longshore—look out below! M. E. Arkills. il Nat Safety N 11:13-14 Je '25

Safety meeting at Fisk rubber plant that never adjourned. G: E. Wallis. il Nat Safety N 11:5-9 Ap '25

Safety methods and devices discussed at the annual general meeting of the Industrial accident prevention association. Can Eng 48: 531-2 My 26 '25

Safety methods and results in D. & H. shops. J. E. Long. Nat Safety N 10:17-19 Jl '24

Safety standards in G-E plants. G: E. Wallis. il Nat Safety N 9:9-12 Ja '24

Safety vs. output—the foreman's opportunity. J: A. Oartel. Safety Eng 48:1-4 Jl '24

Safety work in Great Britain in 1922. Int Labour R 9:606-12 Ap '24

Safety work in the car department. W. A. Clark. il Ry Mech Eng 98:744-7 D '24

Securing cooperation of employes in safety work. H. F. North. Min Cong J 10:478-80 O '24

Silk stockings, sanitation and safety; Phoenix hosiery company. J: M. Sandel. il Nat Safety N 9:15-17 Mr '24

Sincerity—the first step in accident prevention. W. F. Pellenz, jr. Nat Safety N 10: 39 S '24

Slackened interest in safety work. Ry Age 77:1072 D 13 '24

Start good housekeeping now with the spring clean-up. W. W. Williams. il Nat Safety N 11:23-4 Ap '25

Story of safety at the plant of the Commonwealth steel company, Granite City, Ill. E. G. Quesnel. il Safety Eng 46:252-4 N '23

Summer and winter safety hazards. Power Pl Eng 28:959 S 15 '24

There's a reason for safety at the Postum plant. C. T. Fish. il Nat Safety N 10:17-20 O '24

Unfallverhütung und zusammenarbeit in der amerikanischen hüttenindustrie. H. Koppenberg. il Stahl & Eisen 45:1071-5 Jl 2 '25

Various methods of eliminating the causes and reducing the number of accidents in plants of the General electric company. N. J. Darlin. Safety Eng 49:239-43 Je '25

What industry thinks about safety. W. H. Cameron. Factory 34:43 Ja '25

What we learned from a safety campaign. C. C. MacDonald. Safety Eng 47:291-5 Je '24

When a foreman's a foreman. C. C. McDonald. Nat Safety N 9:23 Ap '24

When they get safety they get production. il Nat Safety N 10:19-21 My '24

Where employee activities pave the way for safety work. J: M. Sandel. il Nat Safety N 11:11-13 My '25

Where the safety man fits in. Nat Safety N 9:39-40 Ja '24

See also Acid handling; Air brakes; Boilers—Laws and regulations; Brakes; Car couplings; Electric protective apparatus; Employees—Clothing; Exits; Eye—Protection; Factories—Lighting; Fences, Steel; Fire protection; First aid in illness and injury; Floors—Anti-slip surfaces; Gas masks; Guard rails; Kerosene, Accidents from; Lightning arresters; Lightning protection; Mine rescue work; Motor truck drivers; Piping—Identification; Railroads—Signals; Respiratory apparatus; Roads—Safety guards; Safety at sea and other headings beginning Safety; Traffic regulations; United States—Safety work; Watchmen; Watchmen's clocks; Workmen's compensation; *also* subdivision Safety devices and measures or Safety measures under special subjects, e.g. Automobile factories; Aviation; Blasting; Boiler plants; Building; Cement plants; Chemical laboratories; Chemical plants; Coal mines and mining; Coke plants, By-product; Cotton mills; Cranes, derricks, etc.; Electric engineering; Electric railroads; Electric substations; Electric utilities; Electric welding; Electric welding, Arc; Elevators; Forge shops; Foundries; Furnaces; Garages; Gas companies; Gas works; Gases, Compressed; Grinding wheels; Hoisting; Hydroelectric plants; Lumbering; Machine shops; Machinery; Mechanical handling; Motor buses; Oil storage; Ore handling; Oxyacetylene apparatus; Packing houses; Paper mills; Petroleum engineering; Power transmission; Presses; Punching machinery; Railroads; Refrigeration and refrigerating machinery; Sawmills; Scaffolding; Shafting; Steel works; Street railroads; Sugar factories; Textile mills; *also* American museum of safety; National safety council

Bibliography

List of safe practices pamphlets issued to date, June, 1924. National safety council, 168 N. Michigan Av., Chicago

Pamphlets on safety and welfare in factories and workshops issued by H. M. stationery office, London. Safety Eng 48:30-1 Jl '24

Bonus system

See Safety bonus

SAFETY education

Advertising sells safety to a big city. D. Hubbard. Ptr Ink 128:141-2+ S 11 '24

Community safety problem. L: A. DeBlois. il Nat Safety N 8:5-8 N '23

Demonstration school of safety education. I. Stevenson. il Nat Safety N 10:21-3 O '24

Developments in safety instruction. R. M. Sherrard. Nat Safety N 12:35-6+ N '25

Education wins where guards alone fail. Nat Safety N 9:9 F '24

Effective accident prevention by educational methods. A. Williams. Nation's Health 6: 532-3 Ag '24

Foremen's safety school. H. J. Bell. Ry Mech Eng 99:542 S '25

Foremen's safety school in Milwaukee. Monthly Labor R 20:622-3 Mr '25

How Baltimore is solving her safety puzzle. G: E. Wallis. il Nat Safety N 11:5-8 Mr '25

How knights of the crossroads protect Newark children. C: A. McCall. il Nat Safety N 11:21-3 Mr '25

Inner meaning of safety movement, particularly in relation to the problem of education. A. W. Whitney. Safety Eng 46:229-33 N '23

Introduction to safety education. 98p National safety council, Chicago '24

Introduction to safety education in schools. Nat Safety N 9:37 Mr '24

Junior safety councils of Kansas City. G. E. Wallis. il Nat Safety N 9:5-9 F '24

Juniors set pace in Louisville safety derby. G: E. Wallis. Nat Safety N 10:11-12 Ag '24

Local councils spread safety through safety schools. Nat Safety N 11:40 Ja '25

Make 'em laugh and you've got 'em. F. Redmond. Nat Safety N 9:35-6 Je '24

Make safety popular. J. A. Van Osdol. Elec Ry J 66:643-4 O 10 '25

Making the U.S. gypsum highway safe. R. L. Kautz. il Nat Safety N 12:25-7 O '25

Making vacation safe for the kids. H. J. Norton. il Nat Safety N 9:37-8 My '24

Methods that maintain interest in safety work. J: H. Mallon. il Nat Safety N 11: 27-8 Ja '25

SAFETY education—*Continued*
Nationalization of ideas and ideals. J: B. Payne. Nat Safety N 12:11-12 N '25
Prevention of accidents by educational methods. A. Williams. Blast F & Steel Pl 12: 269-70 Je '24; Same. N E L A Bul 11:393-4 Je '24; Same. Safety Eng 47:298-9+ Je '24
Problem of human instincts in safety work. C. F. Kettering. Nat Safety N 11:29-30 Ja '25
Publicity and plant safety. B. Chapple. Nat Safety N 9:47 Mr '24
Results of safety teaching in Chicago schools. G: B. Masslich. il Nat Safety N 10:35+ O '24
Safety campaign for children in industry. Safety Eng 49:106+ Mr '25
Safety education is favored over mechanical guards. P. Wagner. Nat Pet N 16:32f Jl 2 '24
Safety first in Harold Lloyd's home town. S. J. Williams. il Nat Safety N 9:15-19 Je '24
Safety publicity from the public utility viewpoint. G: Opp. Nat Safety N 10:41+ O '24
Safety towns provide safe play for Baltimore kids. P. F. Stricker. il Nat Safety N 10: 7-8 O '24
Safety work in continuation schools and industrial plants. C. Van Horn. Safety Eng 47:47-50 Ja '24
St Paul school police win city recognition. il Nat Safety N 9:29-30 My '24
Small plant problems as the safety engineer sees them. G. F. Hatch. Nat Safety N 12: 21-2 Ag '25
Some essentials of home safety instruction. J. R. Wilson. Nat Safety N 8:53 O '23
Teaching Father Knickerbocker to watch his step. G: E. Wallis. il Nat Safety N 8:9-12 O '23
Teaching safety to new employees. Nat Safety N 11:45-51 Mr '25
Toledo spelldown teaches safety methods. Nat Safety N 12:44 Ag '25
Use first aid to teach safety to Western electric installers. il Nat Safety N 9:30 Ja '24
What Washington has learned about safety. G: E. Wallis. il Nat Safety N 10:9-13 My '24
Wholesaling safety through the foremen's school. H. J. Bell. Nat Safety N 11:35 Ap '25
Why safety and recreation belong together. A. W. Whitney. il Nat Safety N 11:31-2 Ap '25

See also First aid in illness and injury; Safety bulletins

SAFETY engineering

Study and teaching

Safety instruction in the engineering college curriculum. Nat Safety N 11:21-2 Je '25

SAFETY guards. See Roads—Safety guards

SAFETY inspectors
How the state can aid industry in accident prevention. H. H. Thrall. Nat Safety N 11: 15 Je '25

SAFETY isles
Trolley loading platforms in Baltimore marked with blinkers. il Elec Ry J 65:536 Ap 4 '25

SAFETY lamps
Better underground lighting aids British mining. J. Cooper. Coal Age 28:666-7 N 12 '25
Developments in miners' lamps. Illum Engr 16:126 Ap '23
Die-cast aluminum lamp made in new large size. il Eng & Min J 120:593 O 10 '25
Flame safety lamp proves source of danger. D. Harrington. Coal Age 26:610-11 O 30 '24; Discussion. 27:52, 263-4 Ja 8, F 12 '25
Flame safety lamps. J. W. Paul, L. C. Ilsley and E. J. Gleim. il diags U S Bur Mines Bul 227:1-212, pl 1-32 '24
For flame safety lamps, which is best: flat or round wick? J. W. Paul. Coal Age 25:46 Ja 10 '24
Lampe de mines de sûreté "Molnia" à manchon incandescent, système Ferrette. diag Génie Civil 84:552-3 Je 7 '24
Mine inspectors' institute advocates legislation requiring closed lights and permissibles. A. F. Brosky. Coal Age 25:807 My 29 '24
Practical notes on the safety of flame safety lamps. J. Ashworth. Coal Age 24:783 N 22 '23
Safety lamps giving warning of gas. W. M. Thornton. diags Engineering 117:716-17 My 30 '24
Use of Koehler safety lamp in testing tanks for combustible gases or vapors. R. E. Wilson and R. E. Wilkin. il Ind & Eng Chem 16:1154-6 N '24

SAFETY lamps, Electric
Air-driven generator for safe electric lamp. il Coal Age 26:531-2 O 9 '24
L'emploi des lampes électriques portatives dans les houillères. Génie Civil 87:234-5 S 12 '25
Ignition of firedamp by exposed filaments of electric mine-lamp bulbs. R. D. Leitch, A. B. Hooker and W. P. Yant. U S Bur Mines Rep of Invest 2674:1-3 Mr '25 (typew)
Lighting in mines; comparative costs of electrical and other methods. R. Rogerson. Electrician 95:241-2 Ag 28 '25
Manufacturer defends electric cap lamps. J: T. Ryan. Coal Age 27:913-14 Je 18 '25
Miners' electric lamps; committee's final report; abstracts. Electrician 92:775 Je 20 '24; Elec R (Lond) 95:173-4 Ag 1 '24
Miners' safety lamps. R. V. Wheeler. Elec R (Lond) 94:984-5, 1024 Je 13-20 '24

Repair

Mining company repairs its lamp batteries whenever defective. il Coal Age 27:49-50 Ja 8 '25

SAFETY movement
Accident-prevention plans of the Illinois Department of labor. R. D. Cahn. Monthly Labor R 20:459-63 Mr '25
Advertising's place in national safety campaign. Ptr Ink 130:120+ Mr 19 '25
America's metropolis holds biggest safety parade. W. Schoch. il Nat Safety N 9:41 Je '24
Automobile club and community safety work. L. J. Van Schoick. Nat Safety N 10:43 D '24
Automotive industry should stimulate safety campaigns. C. W. Price. Automotive Ind 49:1188-90; 50:17-19, 175-6 D 13 '23, Ja 3, 24 '24
Children in Beaver Valley schools aid safety campaign. il Elec Ry J 63:500 Mr 29 '24
Community safety in the fifth city, Cleveland. C. T. Fish. Nat Safety N 12:13-14+ S '25
Detroit and Wayne county join in S.O.S. drive. J. H. Goldie. il Nat Safety N 10:24-5 Jl '24
Electric railway in community safety extension. L. H. Palmer. Nat Safety N 10:15-16 D '24
Home managers rout hazards in Cleveland homes. Nat Safety N 9:28 F '24
How the government is selling safety to American industry. Ptr Ink 125:165+ N 22 '23
How women can aid in the public safety movement. J. P. Thomy. Nat Safety N 9:39-40 F '24
Inner meaning of safety movement, particularly in relation to the problem of education. A. W. Whitney. Safety Eng 46:229-33 N '23
Intense safety campaigns; record made at Zanesville, Ohio. Iron Age 113:1086 Ap 10 '24
International aspects of the safety problem. R. Meeker. Nat Safety N 8:13-14 N '23
Lack of human intelligence is cause of most traffic accidents. S. Shelton. Automotive Ind 51:646-7 O 9 '24
Lawrence has first safety week. T. A. Collins. il Nat Safety N 8:25-6 N '23
New York safety parade. il Safety Eng 49:235-8 Je '25
Organized recreation's contacts with safety. W. W. Pangburn. Nat Safety N 12:32 Jl '25

SAFETY movement—*Continued*
Parents and teachers safeguard Chelsea children. G: F. C. Taylor. il Nat Safety N 10: 50 O '24
Place of the railway in community safety work. L. H. Palmer. Aera 13:673-7 N '24
Problems of industrial safety. W. H. Cameron. Nat Safety N 8:23-4 O '23
Put microscope on Kansas City's safety problems. maps Nat Safety N 10:25-6 O '24
Real safety movement to come. Management & Adm 10:61-2 Ag '25
Safety campaign of Westchester county. Safety Eng 48:47-9 Jl '24; Same. Eng & Contr (R & S) 62:753-5 O 1 '24
Safety in American industry. J. J. Davis. Monthly Labor R 19:1137-9 N '24
Safety no longer a matter of choice. W: F. Tubesing. Safety Eng 49:35-6 Ja '25
Safety parade on Fifth Avenue. il Elec Ry J 65:786 My 16 '25; Nat Safety N 11:29 Je '25
Safety that is within us. A. C. Carruthers. Safety Eng 49:110-12 Mr '25
St Louis rallies to safety week message. H. Spoehrer. il Nat Safety N 9:13-14 Ja '24
Saving lives in New York. B. Collier. il Aera 12:980-5 Ja '24
Selfish slogans out of place in safety movement. L. A. De Blois. Nat Safety N 11:11 Ja '25
Seven more cities organize for community safety. Nat Safety N 9:44 Je '24
Story of a volunteer local council. S. M. Lippincott. il Nat Safety N 9:23-4 Ja '24
Successful campaign for the prevention of traffic accidents in Westchester county, New York. Econ W n s 27:925-6 Je 28 '24
Survey of public safety needs. D: Van Schaak. Nat Safety N 12:37-8 N '25
Value of statistics as related to law enforcement. J: Roach. Safety Eng 48:65-9 Ag '24; Same. Monthly Labor R 19:1219-23 D '24
What labor should do for the safety movement. D: Williams. Safety Eng 50:44-6 Jl '25
Why industry needs the safety movement. J. M. Larkin. Nat Safety N 10:7-8 Jl '24
Why it's safe to live and work in Springfield. G: E. Wallis. il Nat Safety N 11: 5-8 F '25
Year round campaign develops public safety conscience. T. P. Walker. il Nat Safety N 12:30+ N '25

See also Safety codes and other headings beginning Safety; *also* National conference on street and highway safety; National safety council

SAFETY museums
Dutch safety museum, Amsterdam. R. A. Gorter. il Safety Eng 47:185-6 Ap '24

See also American museum of safety

SAFETY organization. See Safety committees; Safety departments

SAFETY paper. See Paper, Safety

SAFETY pins

Manufacture

British wire-drawing and wire-working machinery. diags Engineer 138:218-19 Ag 22 '24

SAFETY valves
Advise the use of safety valves for hot water boilers. il Nation's Health 7:426-7 Je '25
Efficient safety valve. C. B. Bailey. Locomotive 35:204-5 Jl '25
Few facts about safety valves. diags Power 62:186 Ag 4 '25
Required size of pop safety valve. Power 60:381 S 2 '24
Safety valve blow-down at Philo. H: D. Carlton. Power 61:1040-1 Je 30 '25
Safety-valve discharging piping. diag Power 61:955-6; 62:145, 499 Je 16, Jl 28, S 29 '25
Safety valve patent of 1853. E. W. Brong. diag Power 62:732 N 10 '25
Safety valves applied to heating boilers. H. A. Stirzaker. Heat & Ven 21:69 D '24
Safety valves for marine boilers—their function, design, use and care. il diag Marine Eng 54:305-6 Jl '24
Safety valves; inspection and maintenance. J. A. Snyder and W: D. Halsey. il diag Locomotive 35:3-8 Ja '24
Safety valves; their application to pressure vessels other than boilers. J. A. Snyder and W: D. Halsey. diag Locomotive 35:35-41 Ap '24
Types and details of safety valves. il diags Power Pl Eng 28:76-9 Ja 1 '24

SAGGERS
Method for determining the life of a sagger. R. F. Sherwood. Am Cer Soc J (Bul) 8:323-6 Jl '25
Saggers in the earthenware industry. A. V. Bleininger. Am Cer Soc J (Bul) 8:531-3; Discussion. 533-40 O '25

SAGINAW, Michigan

Rapid transit

Buses supplement cars in co-ordinated transportation system. il map Bus Transportation 3:217-20 My '24
How Saginaw has co-ordinated railway and bus. il map Elec Ry J 63:531-4 Ap 5 '24
Saginaw votes a fare increase. Aera 14:544-6 O '25

SAGUENAY river
Saguenay river furnishes 540,000 hp. il diag Power Pl Eng 29:966-8 S 15 '25

SAHARA desert
Fish from artesian wells in the Sahara. R. L. Duffus. il map Sci Am 133:110-11 Ag '25
Les 2e et 3e traversées du Sahara en automobile; les voitures Renault à six roues jumelées. G. Delanghe. il diags map Génie Civil 84:293-7 Mr 29 '24
When shall the Saharan camel give way to the locomotive? map Sci Am 132:331+ My '25

SAHA'S equation
Derivation of Saha's equation for temperature ionization. W. F. G. Swann. J Fr Inst 200:591-4 N '25

SAILING vessels
What the internal combustion motor has done for sailing craft. E. T. Keyser. il Am Exporter 94:101+ Je '24

SAILORS' Snug Harbor
Sailors' Snug Harbor a real haven. il Nation's Health 6:43-4 Ja '24

ST CATHARINES, Ontario

Water supply

Proposed filtration plant, St Catharines, Ont. diags plans Can Eng 48:205-8 F 10 '25

ST CATHERINE'S college, St Paul, Minnesota
Chapel of Our Lady of Victory, St Catherine's college, St Paul, Minn. H. A. Sullwold. il plans Am Arch 126:615-18, pl 209-16 D 31 '24

ST CLOUD, Minnesota
Engineering in the small city. Eng N 95:671-2 O 22 '25

ST JOHN the Divine, Cathedral of
Building a great cathedral for America. il Bldg Age 47:100-2 F '25
Financing value of a concept. L. V. Solon. Arch Rec 57:474+ My '25

ST JOSEPH lead company
Report of operations for 1923. Eng & Min J 117:431 Mr 8 '24

ST LAWRENCE river
Bill appropriates $275,000 for St Lawrence river study. Eng N 94:248 F 5 '25
Chicago diversion decision pivotal St Lawrence issue. Eng N 93:762 N 6 '24
Chief of engineers' views on lake harbor deepening costs. H. Taylor. Eng N 93:259 Ag 14 '24
Development of the St Lawrence river for power and navigation. R. S. Lea. il map Engineering 118:239-41, 271-3 Ag 15-22 '24; Same. Can Eng 47:253-6+, 277-83 Ag 19-26 '24

ST LAWRENCE river—*Continued*
Geology of St Lawrence basin must be known in detail before further investigation. Power 60:310 Ag 19 '24
Great Lakes-St Lawrence deep-sea route. diag Sci Am 131:32 Jl '24
Hydro report on St Lawrence river. Can Eng 49:339-40 S 22 '25
Joint board of engineers on St Lawrence deep waterway project receive instructions from the U.S. and Dominion governments. Can Eng 48:508 My 19 '25
Moving forward on the St Lawrence. Eng N 92:1084-5 Je 26 '24
New York state water power commission thinks time has come to develop power. Elec W 85:314 F 7 '25; Same. Power 61: 239 F 10 '25
Opposed to waterways project. H: Holgate. Can Eng 47:612 D 16 '24
President appoints St Lawrence river commission of the United States. Power 59: 508 Mr 25 '24; Eng N 92:506 Mr 20 '24
Reply to Deep waterways association. A. Beck. Can Eng 48:467-9 My 5 '25
St Lawrence deep waterway project. H. De B. Parsons. Can Eng 47:519-21 N 18 '24
St Lawrence deep waterway to the sea. F. C. Shenehon. diags map plan Can Eng 47:481-7, 501-6 N 4-11 '24; Discussion. T. H. Hogg. 47:479-80 N 4 '24
St Lawrence development. Can Eng 46:352 Mr 18 '24
St Lawrence development scheme. H: K. Wicksteed. Can Eng 46:325-6 Mr 11 '24
St Lawrence engineers instructed on scope of work. Eng N 94:720-1 Ap 30 '25
St Lawrence river development one of principal topics at annual meeting of the American society of civil engineers. Can Eng 47: 489-90 N 4 '24; Power 60:781-2 N 11 '24; Eng N 93:712-13 O 30 '24
St Lawrence river program. Elec W 85:890 Ap 25 '25
St Lawrence waterway to the sea. L. C. Sabin. Can Eng 47:603-6 D 16 '24
St Lawrence waterway to the sea. F. C. Shenehon. il maps Am Soc C E Pro 51:1237-1309, pl 2-7 S '25; Discussion. 51:1688-1717, 1873-82, 1997-2004; 52:86-9, 282-8 O '25-F '26
Waterways project discussed at Canadian deep waterways association. Can Eng 47:581 D 9 '24

ST LOUIS
St Louis as a lighter-than-air craft center. A. C. Hoskins. Aviation 16:122 F 4 '24
See also Electric industries—St Louis; Tobacco industry and trade—St Louis

Bridges
Fiftieth anniversary of the Eads bridge. C: E. Smith. il diags Ry R 75:647-54 N 1 '24; Same cond. Ry Age 77:783-6 N 1 '24; Same cond. Eng & Contr (Bldgs) 63:191-8 Ja 28 '25

Industries and resources
St Louis the coming industrial center. il map Iron Tr R 75:sup 1-23 Ag 21 '24
Visit to industrial St Louis. A. J. Davis and others. Am Ind 26:15-35+ O '25

Railroads
Railroad and terminal facilities. H: Miller. map Am Ind 26:28-9 O '25

Rapid transit
Accidents decrease in St Louis. Elec Ry J 65:928 Je 13 '25
Bus competition in St Louis. Aera 12:1925-8 Je '24
Buses and taxes. W. H. Sawyer. Elec Ry J 63:227-8 F 9 '24
$51,761,348 value accepted for St Louis property. Elec Ry J 63:484 Mr 22 '24
Franchise and financial details paramount in St Louis. Elec Ry J 63:636 Ap 19 '24
Independent receiver sought. Elec Ry J 62: 876 N 17 '23
Railway's bus plea unheeded. Elec Ry J 64: 363-4 S 6 '24
Receiver's plan of reorganization of the United railways blocked. Elec Ry J 66:107 Jl 18 '25
Reorganization plan for St Louis system. Elec Ry J 64:901, 940, 1015 N 22-29, D 13 '24
Reorganization plan of United railways company of St Louis. Comm & Fin Chr 119:2531-3 N 29 '24
Rerouting facilitates handling emergency traffic. il map Bus Transportation 4:431-2 S '25
St Louis earnings off. Elec Ry J 66:220-1 Ag 8 '25
Seventy-five double-deckers now used in St Louis. il map Bus Transportation 3:221-3 My '24
Tentative refinancing plan. Elec Ry J 63:832 My 24 '24
Transit conditions in St Louis today; abstracts. M. Buck and C. W. Stocks. il map plan Elec Ry J 65:397-407 Mr 14 '25; Bus Transportation 4:169-75 Ap '25; Discussion. C. E. Smith. Elec Ry J 65:586-7 Ap 11 '25
United railways company 24th annual report, 1923. Comm & Fin Chr 118:1662 Ap 5 '24; Elec Ry J 63:635 Ap 19 '24
See also Motor bus lines—St Louis, Missouri

Sanitary affairs
Garbage incinerator program at St Louis has setback. il diag plan Eng N 92:316-19 F 21 '24

Streets
Non-parking rule helpful. Elec Ry J 63:670 Ap 26 '24
Reduction of street traffic congestion by proper street design. H. Bartholomew. Ann Am Acad 116:244-6 N '24
St Louis is spending $30,000,000 for 235 miles of major streets. L. M. Shaw. map Automotive Ind 49:946-8 N 8 '23
Traffic and congestion. R. J. Lockwood. Elec Ry J 63:983-5 Je 21 '24

Water supply
Progress of St Louis new water works on the Missouri; directing the flow of a big river. Eng N 94:633 Ap 16 '25
Removal of dissolved and suspended matter from St. Louis water. Eng & Contr (W W) 64:357 Ag 12 '25
St Louis water works notes. Pub Works 56: 265 Jl '25

ST LOUIS-San Francisco railway
Annual report, 1923. Comm & Fin Chr 118: 2451-3 My 17 '24
Annual report for the year ended December 31, 1924. Comm & Fin Chr 120:2563-5 My 16 '25
Frisco makes important line improvements. il maps Ry Age 76:275-9 Ja 26 '24; Same. Eng & Contr (Ry) 61:395-9 F 20 '24
St Louis-San Francisco railway company. Moody's Inv Serv 16:121-4 Mr 20 '24

ST LOUIS-Southwestern railway
Annual report, 33d, 1923. Comm & Fin Chr 119:195 Jl 12 '24
Control of Cotton Belt acquired by Rock Island. Ry R 76:547 Mr 14 '25
Examiner advises Interstate commerce commission not to approve acquisition of control of St. Louis Southwestern by the Rock Island. C. V. Burnside. Comm & Fin Chr 121:800-1 Ag 15 '25
St Louis Southwestern has had interesting history; Rock Island acquires control. map Ry Age 78:1091-4 My 2 '25

ST LOUIS stock exchange
Record of prices on St Louis stock exchange, 1923 and 1924. Comm & Fin Chr 120:634-5 F 7 '25

ST PAUL, Minnesota

Railroads
New station at St Paul nearly completed. G: E. Boyd. il plans Ry R 76:1201-4 Je 27 '25
Progress on the union station at St Paul, Minn. il diags plan Eng N 92:186-8 Ja 31 '24

ST PAUL, Minnesota—Railroads—*Continued*
St Paul union depot completes third section. G. W. Wilsey. il plan Ry Age 76:827-30 Mr 29 '24

Rapid transit

Dividends paid and property kept up on Twin City rapid transit. Elec Ry J 65:387-8 Mr 7 '25
St Paul valuation before Minnesota commission. Elec Ry J 63:655-6 Ap 26 '24
Twin City valuation $42,949,191. Elec Ry J 65:430-1 Mr 14 '25

Streets

Highway work in St Paul. Pub Works 56:30-1 Ja '25

Water supply

Fridley conduit of St Paul water works. J. W. Kelsey. Munic & Co Eng 69:70-3 Ag '25

ST PAUL'S cathedral, London
American equipment used in repairing St Paul's. il Eng & Contr (Bldgs) 63:1376 Je 24 '25
Committee on St Paul cathedral safety makes report. Eng N 94:409 Mr 5 '25
Preservation of St Paul's cathedral and other famous buildings. W: Harvey. 153p Architectural press, London '25
Question of St Paul's cathedral. diags Am Inst Arch J 13:109-12 Mr '25
St Paul's cathedral; a severe lesson in building design and construction. E. McCullough. il Bldg Age 47:106-10 S '25
Saint Paul's cathedral; its structure, defects and repair. W: Harvey. diags Engineer 139: 129-32 Ja 30 '25
St Paul's controversy. A. R. Powys. il Arch Forum 42:297-8 My '25
Saving St Paul's cathedral; failures of medieval cathedrals. J. B. Walker. il diag plan Sci Am 132:302-4 My '25
Stability of St Paul's. Engineering 119:232-3 F 20 '25

ST PETER'S, Rome
Dream by Tiber's Strand. N. Hammarstrand. il Am Inst Arch J 12:513-28 D '24

SAKHALIN

See Petroleum—Sakhalin

SAKLATWALLA, B. D., 1881-
D. B. Saklatwalla—Grasselli medalist, 1924. Chem Age 33:35 Ja '25
Grasselli medal is given Dr Saklatwalla. F. M. Turner; W: H. Nichols. por Oil Paint & Drug Rep 106:20 D 8 '24

SAKS & company
Saks & company s. f. 7s, 1942. Moody's Inv Serv 17:55 F 13 '25

SALARIES
Note on executive salaries. Taylor Soc Bul 9:201-2 O '24
Salary administration. 127p American management assn., New York '25
Study of the salaries paid to key executives in principal lines of business. 32p Dartnell corp., New York '24

See also Advertising managers—Salaries; City managers—Salaries; College professors—Salaries; Credit men—Salaries; Engineers—Salaries; Executives—Salaries; Firemen—Salaries; Government employees—Salaries; Municipal employees—Salaries; Police—Salaries; Sales managers—Salaries; Salesmen—Salaries and commissions; State employees—Salaries; Wages

SALEM, New Jersey

Water supply

Unique method of cleaning filter sand. C. H. Capen. Eng & Contr (W W) 63:1058-60 My 13 '25

SALES
Agents and agencies. N. Isaacs. Harvard Business R 3:265-74 Ap '25
Are your goods sold on instalments? H. A. Haring. Ptr Ink M 10:71-2+ My '25
Cases on the law of sales of goods, selected from decisions of English and American courts. F: C. Woodward. 2d ed. 851p [bibliog. p. v-vii] West publishing co., St Paul '25
Contracts for purchase of cement. L. Childs. Concrete 25:192 N '24
Contracts for unlimited quantities. E. K. Sturgis. Concrete 24:22 Ja '24
Credit clause on oil contract. W. Gustin. Chem & Met Eng 30:943 Je 16 '24
Incidence of the fire risk on goods sold but not delivered. Econ W n s 29:925-6 Je 27 '25
Law governing sales of goods at common law and under the Uniform sales act. S: Williston. 2d ed. 2v Baker, Voorhis & co., New York '24
Need of inspecting merchandise; failure to reject sheetings within time limit causes loss of case. L. Childs. Textile World 68: 646 Ag 1 '25
Noe-Equl textile mills take a fall out of illegal taxation. Sales Management 9:574+ O 31 '25
Recent legal decisions. Sales Management 8: 829-30 My 30 '25
Sale of goods on c.i.f. and f.o.b. terms. A. D. Gibb. 63p Butterworth & co., London '24
Uniform sales contract. J. J. Nevins. Textile World 67:856-7 F 7 '25
When the seller fails to deliver per contract. Ptr Ink 130:36 Mr 12 '25

See also Arbitration; Brokers; Cancellation of orders; Coal contracts; Contracts; Gasoline industry—Contracts; Shipment of goods; Warranty

SALES, Bargain. See Bargain sales

SALES, Conditional
Conditional sale agreement may protect master plumber if a prior mortgagee assents to the agreement. Dom Eng 111:52+ My 9 '25
Law of chattel mortgages and conditional sales. A. B. Griffin. 4th ed. 360p M. Bender & co., inc., Albany '25

SALES agencies. See Exclusive agencies

SALES and production. See Production and sales, Coordination of

SALES campaigns
AutoStrop's guarantee sale increases sales outlets. Ptr Ink 131:34+ Ap 2 '25
Beck sales campaign. Sanitary & Heat Eng 103:389-92 Je 12 '25
Getting all distributors to concentrate in an advertising drive. J: A. Murphy. il Ptr Ink M 9:19-20+ N '24
How we sell the full line; sales campaigning methods. R. L. James. Sales Management 8:361-2+ Mr 7 '25
Management behind outside selling crews. J. R. Jennings. il Gas Age 55:351-2+ Mr 7 '25
Putting over a successful campaign in Rochester. Sales Management 7:1911-12+ D '24
Sealed order week combines dealer education with sales appeal. D. M. McDonald. Automotive Ind 51:362-3 Ag 21 '24
This campaign accomplished more than just increasing sales. W. C. Smyth. Sales Management 9:24 Jl 11 '25
What to avoid in staging a sales campaign in Atlanta. il Sales Management 6:989-90+ My '24
When home town sales begin to lag. D. L. Kinsella. Sales Management 8:17-18 Ja 10 '25

See also Market testing

SALES conferences
We'll take that up on Saturday morning. G: Gatchell. Ptr Ink M 11:47-8+ N '25

SALES contests
April planning for July business. System 45: 486-9+ Ap '24
Contest perks up personal appearance of salesmen. C: B. Peck, jr. Ptr Ink 127:65-6 Ap 24 '24

SALES contests—*Continued*
Fighting for places on the sales team. W. L. Barnhart. Ptr Ink M 11:132+ N '25
For every dollar in prizes spend a dollar for promotion. D. G. Baird. Sales Management 9:207-8 Ag 22 '25
Four fundamentals of sales development; campaign carried out by sales divisions of the National lamp works. P. B. Zimmerman. il System 46:446-7+ O '24
General Electric sales contests that look for continuous results. G. A. Nichols. Ptr Ink 125:3-4+ D 6 '23
How a salesman's sweetheart is appealed to in a sales contest. Sales Management 8: 381 Mr 7 '25
How International harvester is making sales in off-season. R. Davis. Ptr Ink 125:100-1 N 15 '23
How we sell the full line; sales campaigning methods. R. L. James. Sales Management 8:361-2+ Mr 7 '25
Jacks-or-better; Packard motor car company sales contest. A. Slavitt. Sales Management 8:799-800+ My 30 '25
News bulletins keystone of Marmon sales contests. Sales Management 7:1495-6+ S '24
Our one best contest. J. B. Clay. Sales Management 8:677 My 2 '25
Payne motor company proves that cars can be sold out of season. R. McDaniel. il Sales Management 7:1853-4 D '24
Pride versus prizes. W. L. Barnhart. il Sales Management 8:443-4+ Mr 21 '25
Problem in sales management. H. B. Elmer. System 45:323+ Mr '24
Sales contest that bettered routine work. S. R. Edgar. il System 45:189+ F '24
Sales contest that didn't overload the dealer. C. M. Harrison. Ptr Ink M 8:43-4 Je '24
Sales contest that tied up with company's advertising. W. Bates. map Ptr Ink M 10: 43-4+ Ja '25
$70,000 race for sales. W. C. Schuppel. System 47:488-9+ Ap '25; Same. Spectator 114: 29 Ap 23 '25
This campaign accomplished more than just increasing sales. W. C. Smyth. Sales Management 9:24 Jl 11 '25
Two sales contests that brought results. il System 48:48-9 Jl '25
Use of contests among salesmen. Harvard Business R 2:480-9 Jl '24
What do contests contribute to salesmanship? Ptr Ink 128:126+ Ag 7 '24
When sales lag while the sales force waits for the season to open. Sales Management 8:547 Ap 4 '25
When the top notchers run away with all the contest prizes. S. J. Sexton. Sales Management 9:445+ O 3 '25
When your sales contests begin to lose their kick. R. Cole. Sales Management 6:927-8+ My '24
Why I do not use sales contests. Ptr Ink 130:41-2+ F 12 '25
Will this idea put new life in your sales contests? Sales Management 8:371-2 Mr 7 '25
Winter vacations for August sales. C: C. Ferris. System 46:149-50+ Ag '24
Year-round contest that works. Sales Management 9:95-6 Jl 25 '25

See also Bank employees—Contests

SALES contracts. See Sales

SALES conventions
Big sales conventions are being split into local meetings. F. L. Scott. Ptr Ink 129:41-2+ D 4 '24
Burroughs all-star convention features sales demonstrations. il Sales Management 7: 1605-6 O '24
Charts that saved a convention from talking itself to death. R. McDaniel. Sales Management 6:779-80 Ap '24
Convention of salesmen first gun of Chevrolet fall sales drive. D. G. Baird. il Sales Management 9:83-4+ Jl 25 '25
Convention speakers—one kind just "orates," the other kind has something to say. Automotive Ind 52:1029 Je 11 '25
General vs. district conventions—what Pepsodent learned. H. P. Roberts. Ptr Ink M 10:35+ Ja '25
How much should salesmen talk at conventions? Sales Management 8:455-6 Mr 21 '25
In conference out of doors. R. D. Owen. il Ptr Ink M 9:52+ Jl '24
Making the sales convention live through the year. W. Kean. Ptr Ink M 10:31-2+ My '25
Making the sectional sales conference a success. J. J. Witherspoon. Ptr Ink M 9:39-40+ Jl '24
Our one best sales convention. C. A. Burnham. il Sales Management 8:261-2 F 7 '25
Paving the way for a successful sales conference. H. M. Maxwell. System 46:176+ Ag '24
Picking a keynote for the sales convention. A. Bradbury. Ptr Ink M 11:29-30 S '25
Sales playlet supplants many hours of speech making. C: S. Frederick. il Sales Management 7:1773-4 N '24
Salesmen's expenses at sales conventions. Ptr Ink 131:136 My 14 '25
759 jobber salesmen attend manufacturers' sales convention; Western company has jobber co-operation. C. B. Larrabee. Ptr Ink 128:109-10+ Ag 7 '24
Some ideas for that general sales convention. W. Bates. Ptr Ink 132:101-4+ Jl 30 '25
Some pointers on how to hold a sales convention. C. T. Anderson. Ptr Ink 127:81-2+ My 1 '24
Staging the convention playlet without a stage. R. Cole. Ptr Ink M 10:35+ Mr '25
What makes a sales play click? H. Coleman. Sales Management 9:210+ Ag 22 '25
When a national sales conference pays. W. F. Wyman. System 46:600+ N '24
When drama steps in to help the sales manager. F. A. Meckel. Ptr Ink M 9:66+ Ag '24
When the sales convention gets too large for results. C. M. Harrison. Ptr Ink M 8:56+ Mr '24
Why sales managers favor district sales conferences. G. A. Nichols. Ptr Ink 131: 142+ Ap 2 '25
Why we applied the dramatic. L. V. Britt. System 46:728-31+ D '24

See also Business conferences; Jobbers' conventions

SALES costs
Administrative and selling costs, their nature and distribution. A. Stewart. Paper Tr J 80:53-5 Je 25 '25
Buyers and purchasing agents responsible for part of the high cost of selling. J. A. Worsham. Ptr Ink 126:17-19 Ja 31 '24
Calls and profits. E. Whitmore. Sales Management 6:657-8 Mr '24
Cutting sales cost by scientific analysis. H: S. Dennison. Am Management R 14:243-4 Ag '25
High cost of too much business. H. Tipper. Nation's Business 12:25-6 Ap '24
Hood Rubber sales budgets. K. W. Stillman. Management & Adm 9:417-20 My '25
How to cut wholesale selling costs. J. True. Ptr Ink M 8:17-18+ Je '24
How to set accurate sales quotas and determine sales expenses. G. C. Willings. Ptr Ink 133:120+ O 29 '25
Measuring sales effort results; the fallacy of an average cost. W. A. McDermid. Management & Adm 9:33-7 Ja '25
Selling expenses. W. R. Basset. Paper Tr J 78:61 Ja 3 '24

See also Marketing—Cost; Retail trade—Costs

SALES departments
Group of salesmen who learned to run their own sales department. J. S. Conroy. Sales Management 6:1067-8+ Je '24
How to develop a successful sales organization. P. Cabot. Gas Age 56:483-4+ O 3 '25
Keeping the sales organization happy and growing. B. J. Williams. Ptr Ink 132:3-4+ Ag 20 '25

SALES departments—*Continued*

Liquid carbonic sales organization. W. J. Graham. Management & Adm 10:255-8 N '25

Manager's part in creating team-play; salesmen and factory workers. System 44:761+ D '23

Organizing a sales department. J: A. Murphy. Ptr Ink M 8:17-18+ Mr '24

Organizing the sales department. M. T. Copeland. Am Gas J 123:485+ O 24 '25

Putting all your shoulders behind the same wheel. H: H. Morse. Sales Management 8:561-2+ Ap 4 '25

Relation of advertising to sales. H. R. Tosdal. Am Management R 14:43-5 F '25

Relation of sales to credit department. F. L. Miller. Nat Pet N 17:44-6 Mr 4 '25

Should sales executives boss the collection department? C. C. Casey. Ptr Ink M 8:17-18+ My '24

Should sales executives do personal selling? Ptr Ink 127:25-6 My 29 '24

Should the sales manager control advertising? M. L. Chapman. Ptr Ink M 10:19-20 Je '25

This is not the sales manager's job; collection departments. H. G. Willnus. Ptr Ink 128: 89-90 Jl 24 '24

What advertising departments expect of sales departments. H. C. Menagh. Ptr Ink 131: 144+ Je 11 '25

See also Sales management; Sales managers; Sales promotion departments; Sales policies

SALES estimates

Forecast sales before budgeting; keynote for conference of American management association. Iron Age 116:1100-2 O 22 '25

Use of estimates in control of merchandising operations. A. C. Hodge. Univ J of Business 3:397-412 S '25

See also Production and sales, Coordination of; Sales quotas

SALES letters

All-important opening paragraph. D. D. Lukens. Sales Management 7:1481-2 S '24

Backing up your salesman with a sales letter. J. K. Novins. Sanitary & Heat Eng 102:7 Jl 11 '24

Biggest factor in writing selling letters. J. H. Picken. System 46:431-3+ O '24

Business getting letters. F. Farrington. Sanitary & Heat Eng 101:299-301 My 16 '24

Choose unusual words in writing sales letters. R. Crothers. Ptr Ink 125:19-20 D 27 '23

Consumers who go to sleep on the retailer's books. Ptr Ink 130:141-2+ Ja 29 '25

Direct-mail campaign brings Ford into aviation. D: R. Erwin. Ptr Ink 132:25-6+ S 24 '25

Director of purchases can manage these sales. Ptr Ink 125:69 D 13 '23

Don't overdo the personal note in form letters. R. Crothers. Ptr Ink 130:49-50+ F 5 '25

Eighty-six per cent of the replies were orders; advertising license tax blanks. M. A. Rollins. Ptg Art 44:152-4 O '24

Export sales letters that bring results. W. F. Wyman. Ptr Ink M 10:21+ Je '25

$54,000 worth of orders from two unusual letters. S. R. Hall. il Sales Management 8:615-18 Ap 18 '25

Getting emphasis in letters without underlining. R: Surrey. Ptr Ink 129:49-50+ D 4 '24

Getting headline punch in sales letter openings. M. Droke. Ptr Ink 127:10+ My 8 '24

Grab-bag of direct-mail advertising ideas. Ptr Ink 133:25-6+ N 5 '25

How Fleischmann revives "morgue" accounts. Ptr Ink 127:8+ Ap 17 '24

How mailings stabilize our production. L: Adler. System 44:750-1+ D '23

How shall the export letter be signed? Ptr Ink M 10:110 Je '25

How to use the testimonial letter. J. K. Novins. Sanitary & Heat Eng 101:12 Ja 11 '24

How we sold $21,608 by mail for 4.4%. J. G. Pattee. System 48:551-3 N '25

How, when and where to use humor in sales letters. M. Droke. Ptr Ink 130:104+ F 12 '25

Humor in sales letters. E. C. Norman. Ptr Ink M 9:116+ D '24

Ideas—the best dealer helps for high-class stores. J. True. Ptr Ink 131:49-50+ Ap 9 '25

Jobbers overlook half the prospects but letters reach them all. Sales Management 8:383-4 Mr 7 '25

Let's shorten the sales letter introduction. M. Droke. Ptr Ink 128:17-19 Jl 3 '24

Letter that brought back lost, strayed or stolen customers; Carey salt company. Ptr Ink 127:128+ Je 19 '24

Letter that secured action from purchasing agents. Ptr Ink M 9:69 Ag '24

Letters made more resultful by effective layouts. W. B. Edwards. Ptr Ink 129:49-50+ O 2 '24

Letters that bloom in the spring! A. Slavitt. Sales Management 8:439-40+ Mr 21 '25

Letters that do the salesman's leg-work. E. J. Heimer. System 45:314-16+ Mr '24

Letters that get orders when salesmen cannot call. C: A. Emley. Ptr Ink 130:60+ Mr 5 '25

Letters that roused our torpid prospects. W: W. Rice. System 45:775-6+ Je '24

Letters that show the prospect his needs. F. P. Rice. System 47:35-7+ Ja '25

Letters which move our dealers' stocks before they buy of us. S: Dublirer. il System 45:646-7 My '24

News slant in sales letters; a section from the American rolling mills company's book. S. Perry. Sales Management 7:1587 O '24

Old customer who leaves you flat. A. P. Dyer. Sales Management 8:958 Je 27 '25

Photographs tipped to form letters bring new life to mail campaign. H. B. Harrison. Ptr Ink M 11:60 Jl '25

Report on 72 master letters and what made them pay. 160p Shaw '24

Rid that sales letter of its bombast. B. W. Griffin. Ptr Ink 126:44+ Ja 31 '24

Sales letters that cut to the core. M. Droke. Ptr Ink 127:41-2+ Ap 10 '24

Series of nine export sales letters. W. F. Wyman. Ptr Ink 133:73-4+ N 5 '25

Seven-line sales letters that secured new customers. E. Wolff. Ptr Ink 130:73-4+ Mr 12 '25

Six-letter campaign that increased sales twenty-nine percent; Gates rubber company. H. D. Thoreau. Sales Management 7:1597-8+ O '24

65% more sales and closer collections through letters. H. W. Cochran. System 45:27-9 Ja '24

Tailor clothes his letters with homespun sincerity. F. M. Barber. Ptr Ink 132:111-12 Ag 6 '25

These letters rang the bell. W: A. Hersey. Sales Management 9:273-4+ S 5 '25

Thirty-five per cent returns from a two-letter campaign. H. C. Skiff. il Sales Management 9:497-8+ O 17 '25

This export letter produced 353 inquiries and 91 orders. Ptr Ink 132:88+ Ag 13 '25

This letter plan plugs holes in our jobbers' stocks. K. G. Merrill. Sales Management 8:392+ Mr 7 '25

Three kinds of sales letters. C. C. Hermann. Inland Ptr 75:762 Ag '25

Two thousand letters a week. E. J. Heimer. Sales Management 8:941-2+ Je 27 '25

Value of the old customer. J: T. Bartlett. Inland Ptr 74:76 O '24

Wallops—packed and unpacked. A. T. Moore. Ptr Ink 133:17-20 N 5 '25

Way to meet the price argument instantly; the Harry Berger shirt company uses a return telegram. Ptr Ink 127:17-18 Ap 17 '24

What are the qualities of the persuasive sales letter? L. R. Alwood. Ptr Ink M 7:92+ D '23

What makes a sales letter ring true? M. Droke. Ptr Ink 128:69-70+ Ag 7 '24

When the prospect just won't answer a letter. A. Jameson. Ptr Ink 129:174+ N 13 '24

When the salesman writes his prospects. R. Crothers. Ptr Ink 130:123-4 Ja 1 '25

When to soften the urge in sales letters. J. W. Speare. Ptr Ink 125:120+ N 15 '23

SALES letters—*Continued*
When you run out of sales letter ideas. M. Droke. Sales Management 6:966+ My '24
Why did this letter pull 7 per cent results? Ptr Ink 133:99 O 1 '25
Why some letters lose out. R: W. Freeman. Gas Age 55:756 My 23 '25
See also Complaints; Follow-up systems

SALES literature
Better sales literature. S. R. Hall. Published occasionally in bi-weekly numbers of Sales management
What is the life of your sales literature? Autocar binds all sales literature in volumes. R. F. Wood. Ptr Ink M 9:86+ S '24
See also Catalogs

SALES management
Analyzing salesmen's calls. C. A. Norton. Elec W 85:1050-1 My 16 '25
Are retailers called on too frequently? A. H. Van Voris. Ptr Ink 127:117-18+ Je 26 '24
Are your salesmen calling on good listeners or real buyers? Sales Management 8:406 Mr 7 '25
Balance advertising expenditure and sales effort. A. H. Deute. Ptr Ink M 8:57+ Je '24
Beware the dealer who misleads your salesmen. H. D. Arthurs. Ptr Ink 131:33-4+ Ap 9 '25
Biggest thing in managing a sales force—and why. Sales Management 9:484-6+ O 17 '25
Bridging the gap between salesmen's calls. System 48:54-5+ Jl '25
Britigan method of keeping a sales force on its toes. W: H. Britigan. Sales Management 7:1585-6+ O '24
Combing for the last order; selling system that seeks universal distribution for Park & Tilford candies. G. Stewart. Ptr Ink M 11:19-20+ Jl '25
Common-sense management puts trailing specialty into leader class. Ptr Ink 130: 141-2+ Mr 12 '25
Completing the sales organization by adding an auxiliary force. R. C. Keim. Ptr Ink M 10:36-7 My '25
Conserving the salesman's time. N. C. Tompkins. Ptr Ink 128:101-2+ Jl 17 '24
Coverage check system for salesmen. Ptr Ink M 9:56 D '24
Curing the salesman who promises specials. F. L. Scott. il Ptr Ink M 8:25-6+ F '24
Difference between sales managers and sales managers; abstracts. R. R. Deupree. Ptr Ink 127:73-4+ Ap 24 '24; Sales Management 6:977-8+ My '24
Disagreement on how to take star salesmen down a peg. Ptr Ink 130:74+ Ja 29 '25
Distribution a governing influence on production. G. D. Mercer. Taylor Soc Bul 10:111-15 Ap '25
Do your salesmen grow stale? C: C. Casey. Brick & Clay Rec 66:756-7 My 12 '25
Does sending printed matter ahead of salesmen steal their "thunder"? Sales Management 6:627-8+ Mr '24
Dynamite for the chair-warming salesman. W. H. Heath. Ptr Ink 127:132+ Je 5 '24
Finding a salesman's vulnerable point. W. H. Heath. Ptr Ink 129:75-6+ O 2 '24
Fixing responsibility for personal debts of salesmen. Ptr Ink M 10:104 Je '25
Getting salesmen enthusiastic when a new product is added to the line. C. B. Larrabee. Ptr Ink 125:109-10+ N 29 '23
Getting your salesmen to work harder. J: A. Murphy. Ptr Ink 132:3-4+ Ag 27 '25
Give your salesmen some back-curtain details. W. H. Heath. Ptr Ink 129:99-100+ D 25 '24
Give your second-string salesmen a chance. C. C. Casey. Ptr Ink 133:73-4+ O 15 '25
Giving the salesman added confidence in himself by judicious praise. A. L. Townsend. Ptr Ink 126:153-4+ F 7 '24
Handbook of sales management. S. R. Hall. 995p McGraw-Hill '24
Handling salesmen who think all home office folks are dubs. B. J. Williams. Ptr Ink 129: 41-2 N 27 '24
Hardest job for the sales manager; getting results out of a retail sales force. A. H. Deute. Ptr Ink 128:17-20 S 18 '24
Have a heart—a new slogan for sales managers. B. J. Williams. Ptr Ink M 8:28+ Ja '24
Helping versus hammering salesmen who hit the bottom. A. F. Beier, E. A. McCullough and G: S. Trant. Sales Management 7:1359-60 Ag '24
High cost of vacant territories. il Sales Management 8:681-2 My 2 '25
How can we direct the work of our commission salesmen? E. Whitmore. Sales Management 8:731-2+ My 16 '25
How N.C.R. agency made record percentage gain. W: S. Dutton. Forbes 13:377-8 Ja 5 '24
How Phillips-Jones got around the hand-to-mouth epidemic. J. Ewing. Sales Management 7:1705-7+ N '24
How 60 salesmen of an acquired subsidiary were handled. Ptr Ink 133:34+ O 29 '25
How the N.C.R. keeps on breaking records. F: B. Patterson. Forbes 15:758-9+ Mr 15 '25
How to analyze sales problems. C. C. Casey. Ptr Ink M 9:43-4 O '24
How to get salesmen to push the biggest profit items. G: B. Evans. Ptr Ink 129:3-4+ D 25 '24
How we control and direct hundreds of house-to-house salesmen. O. R. Hogue. il Sales Management 7:1213-15+ Jl '24
How we get our salesmen to follow our policies. M. S. Florsheim. Ptr Ink M 9:41-2+ N '24
How we get salesmen to sell the entire line. F. R. Jones. Ptr Ink 132:33-4+ Jl 16 '25
How we made over our program to fit present sales conditions; Phillips-Jones corporation. J. Ewing. Sales Management 7:1229-30 Jl '24
How Westinghouse shoved aside obstacles to increased sales. E. B. Weiss. il Ptr Ink M 9:75-6+ S '24
How will you hold the ambitious salesman? C: G. Muller. Ptr Ink M 9:37-8+ Ag '24
How your sales managers can fill in the valleys of July and August. R. Giles. Ptr Ink 127:3-4+ My 15 '24
Increasing the number of calls your salesmen make; junior salesmen. C. C. Casey. Ptr Ink M 7:37-8 D '23
Increasing the salesman's useful time. Am Mach 59:868 D 13 '23
Introducing the family to the one-item purchaser. R. Cole. Ptr Ink M 10:43-4+ F '25
Is the salesman his product's keeper? Ptr Ink 130:76+ Ja 8 '25
Is turnover in the sales force really a blessing in disguise? Sales Management 8:441-2 Mr 21 '25
Is your sales force on a personal basis? C. B. Larrabee. Ptr Ink M 8:19-20+ Je '24
It's time somebody told the truth about star salesmen. Sales Management 8:15-16+ Ja 10 '25
Letters that don't mix inspiration and detail. R. Dickinson. Ptr Ink M 8:29-30+ Ja '24
Liquid carbonic sales organization. W. J. Graham. Management & Adm 10:255-8 N '25
Make your quota or we'll fire you! W. H. Heath. Ptr Ink 128:189-90+ S 18 '24
Making the export salesman's first trip pay dividends. W. F. Wyman. il Ptr Ink M 8:37-8+ Je '24
Making the sales convention live through the year. W. Kean. Ptr Ink M 10:31-2+ My '25
Managing the motorized sales force. E. W. Dunham. il Ptr Ink M 9:35-6+ S '24
Manual by and for managers. J. M. Holcombe, jr. Ptr Ink 127:182+ Je 12 '24
Modern sales manager and his developing technique. J. R. Doubman. Ann Am Acad 115:174-82 S '24
National grocer plan for pushing the most profitable lines. D. G. Baird. Sales Management 7:1619+ O '24
New broom sweeps mean. Sales Management 6:385-6+ Ja '24; Discussion. 6:503-4, 651-2+, 807-8 F-Ap '24

SALES management—*Continued*

Now let us teach salesmen to respect their rivals. H. D. Arthurs. Ptr Ink 132:134+ Ag 6 '25

Optimistic sales manager and his board of directors. G: W. Hopkins. Sales Management 6:539+ F '24

Our most effective business-getting tool; smaller orders, divided territory, more frequent calls. J. Ewing. il System 46:285-7+ S '24

Our salesmen take inventory to learn more about our line. O. W. Murphy. Ptr Ink 131: 17-18 Ap 16 '25

Outdoor sales force. P. E. Wilson. 140p Pitman '24

Passing along tips to salesmen. System 46: 160-1 Ag '24

Planning a year's sales program and sticking to it. E. C. May. Sales Management 7:1709-10+ N '24

Planning salesmen's work to save their time. C. K. Woodbridge. Ptr Ink M 10:17-18+ F '25

Post-dated checks put new life in salesmen. Sales Management 9:184-5 Ag 8 '25

President's letter of introduction to new salesmen. Ptr Ink 127:80+ Ap 3 '24

Problems in sales management. H. R. Tosdal. rev. ed. 850p Shaw '25

Province of sales management. H. G. Kenagy. Spectator 113:30-1 Jl 24 '24

Relation of the sales manager to his salesmen. R. W. Lindsay. Ptr Ink 127:81-2+ Je 5 '24

Retail solicitor—cornerstone of appliance sales. W: G. Keay. Gas Age 56:625-6+ O 24 '25

Sales control that reveals weaknesses in working territories; Tide Water oil sales corporation's method of visualizing marketing opportunities. M. Hastings, jr. Ptr Ink M 8:39-40+ F '24

Sales executives pool working data for common good. Ptr Ink 127:77-8+ Ap 17 '24

Sales force that runs itself. A. R. Howell. Ptr Ink M 8:38+ My '24

Sales manager analyzes the sales manager's job. M. J. Wolf. Ptr Ink 131:117-20 My 14 '25

Sales manager who is America. J. J. Witherspoon. Ptr Ink M 9:33-4+ N '24

Sales manager Williams writes salesman Evans about Christmas. B. J. Williams. Ptr Ink 129:25-6+ D 25 '24

Sales manager with no theory of management. B. J. Williams. Ptr Ink 129:73-4+ N 6 '24

Sales manager writes form letters that sell; keep wholesale drug salesmen boosting Owens bottles. T. Mitchell. Ptr Ink M 11: 42+ Ag '25

Sales manager's part in cutting selling costs. A. H. Deute. Ptr Ink M 10:17-18 Mr '25

Sales managers who live in the past. W. R. Heath. Ptr Ink 131:41-2+ Je 18 '25

Sales methods of Fuller brush company. H. R. Simonds. il Iron Tr R 76:809-12 Mr 26 '25

Salesman is right if the selling methods are right. R. N. King. Ptr Ink M 9:31-2 Ag '24

Salesman who carries a chip on his shoulder. Sales Management 9:143-4+ Ag 8 '25

Salesmanship and advertising in developing present and new markets. C. K. Woodbridge. Am Gas Assn Commercial sec v 6:583-91 '24

Salesmen I have handled—and manhandled. Sales Management 7:1256+ Jl '24

Salesmen who carry side lines. Ptr Ink 130: 89 Mr 19 '25

Salesmen who think selling is the world's worst job. W. H. Heath. Ptr Ink 133:49-50+ O 15 '25

Selling to the power plants. il Sales Management 8:873-4 Je 13 '25

Shall we use vocational selling? System 47: 40-3+ Ja '25

Should the sales manager nurse along the lame duck? R. F. Lovett. Ptr Ink M 8:43-4+ F '24

Should the salesman be his own sales manager? D. Gridley. Ptr Ink M 9:39-40+ O '24

Should the trouble-maker be let out of the sales force? A. W. Swain. Ptr Ink M 7:39-40+ D '23

Should there be a sales manager for each department? Ptr Ink 128:99-100 Ag 7 '24

Small-town work and the senior salesman. J. J. Witherspoon. Ptr Ink M 8:59-60+ Ja '24

Smoothing the way for the cub salesman by assigning him to interesting fields. W. D. Turner. Ptr Ink 126:125-6+ Ja 24 '24

Some star letters to star salesmen. Ptr Ink 132:17-20 Ag 20 '25

Spinal massage for field managers who are slackers. B. J. Williams. Ptr Ink 130:57+ Ja 8 '25

Successful method of selecting and developing salesmen. C. C. Henshaw and R. S. Richey. Ptr Ink 126:129-30+ Ja 17 '24

Supervision of salesmen. G. V. Cope. Am Management R 14:273-6 S '25

Supplying salesmen with a "Who's Who" in the prospect family. W. H. Heath. Ptr Ink 125:177+ N 8 '23

Supporting an organization with intelligent data is of great importance. J. P. Jordan. Prof Eng 10:9-10 Ag '25

Taking the star salesman down a peg. B. J. Williams. Ptr Ink 129:25-6 D 4 '24

Team work on the sales force. K. K. Bell. Sales Management 7:1575-6+ O '24

10:30 A.M. salesman. E. C. Lough. Sales Management 9:205-6+ Ag 22 '25

Tendencies in sales management. S. Cowan. Taylor Soc Bul 9:72-85 Ap '24

That holiday letter to your salesmen. D: H. Colcord. Sales Management 7:1837-8+ D '24

Those orders you turn over to jobbers. Ptr Ink 130:3-4+ F 26 '25

Time and place for inspirational letters. W. Hines. Ptr Ink 130:102-4 Ja 22 '25

To get more calls in the salesman's day. J: Bremner. System 45:826 Je '24

Traveling sales manager comes to bat. D. Argyle. Ptr Ink 130:57-8+ F 19 '25

Walker found a solution to the old trade-in bugaboo. D. G. Baird. il Sales Management 9:359-60+ S 19 '25

Want to stimulate your salesmen? A. Belden. Ptr Ink 128:84+ S 4 '24

Way to keep salesmen from going to seed in fertile soil; new territories. W. H. Heath. Ptr Ink 127:25-6+ Je 26 '24

We got dealers to sell away from their doorsteps; Indian motorcycles. J. B. McNaughton. Ptr Ink 133:17-20 O 8 '25

We make our records win new sales. P. T. Tobey. System 48:35-8+ Jl '25

What a sales manager owes his men. C. E. Sommer. Sales Management 7:1841-2 D '24

What Northrup-King learned about wasted Saturdays and Mondays. Sales Management 8:309-10 F 21 '25

What one sales manager wrote to his salesman about the fall business outlook. R. R. Gray. Sales Management 9:233-4 Ag 22 '25

What our men must do before they ask for an order; selling ball bearings. W. L. Batt. Sales Management 8:299-300+ F 21 '25

What pure sales promotion can do for a business. R. D. Doane. Forbes 15:237-8 N 15 '24

What shall the salesmen do in off seasons? Ptr Ink 133:121-2+ O 15 '25

What the branch manager must know about his salesmen. R: Warren. Ptr Ink M 10: 33-4+ Ap '25

When it becomes necessary to raise a little Cain. A. H. Deute. Ptr Ink M 11:33-4+ Jl '25

When manufacturers' and jobbers' salesmen travel together. J: M. Schlachter. Ptr Ink M 9:46+ O '24

When the buyer comes to papa. Sales Management 7:1725-6 N '24

When the Czar sits inside. C: G. Muller. Ptr Ink M 9:29+ S '24

When the sales convention gets too large for results. C. M. Harrison. Ptr Ink M 8:56+ Mr '24

SALES management—*Continued*
When the sales department gets a swelled head. A. H. Deute. Ptr Ink M 10:24+ Ap '25
When the salesman blames his territory. R. Crothers. Ptr Ink M 10:39-40+ Ja '25
When the salesman breaks house rule 147. Ptr Ink 133:3-4+ O 22 '25
When the salesmen ask, "What's new this year?" W. G. Caldwell. Sales Management 7:1613-14+ O '24
When you transplant American salesmen to foreign soil. J: M. White. Ptr Ink 128:118+ S 18 '24
When your salesmen grow stale. C: C. Casey. Management & Adm 9:157-8 F '25
Who is to blame if sales fall off? G: A. Young. Ptr Ink 128:3-4+ Jl 24 '24
Why Austin-Nichols put sales and service on wheels. C: W. Patterson. Ptr Ink 130: 149-50+ Mr 19 '25
Why coca-cola rebuilt its sales organization. R. W. Woodruff. Ptr Ink M 9:19-20+ Jl '24
Why our sales are up. R. H. I. Clark. System 46:297-9+ S '24
Writing the letter that may be loaded with dynamite; how sales managers answer complaints and inquiries. C. W. Hamilton. Sales Management 7:1717-18+ N '24
The year we switched our men from salary to commission—our business increased 66%. G. A. Sumner. System 48:550+ N '25
Young salesman who wants ten years' promotion in one. Sales Management 9:355-6 S 19 '25

See also Dealer helps; Export trade—Sales management; Factory exhibits and demonstrations; Follow-up systems; Ideas in business; Models, Miniature; Production and sales, Coordination of; Sales contests; Sales manuals; Sales policies; Sales promotion departments; Sales quotas; Sales records; Sales territories; Salesmen; Side lines

Bibliography

Sales executives' list of references. F. M. Cowan. 108p Dartnell corp., Chicago '25

SALES managers
American management association discusses management of sales at annual meeting, New York. Iron Tr R 76:419-20 F 5 '25
Analysis of the traveling sales manager's job. B. J. Williams. Ptr Ink 131:61-2+ Je 25 '25
British conception of a sales manager. F. R. Jones. Ptr Ink 128:124-6 Jl 17 '24
How much time should sales managers spend on road? G. A. Nichols. Ptr Ink 129:17-20 O 30 '24
Kind of sales manager who goes over big. R. Cole. Sales Management 6:505-6 F '24
More about time that sales heads should be on road. Ptr Ink 129:75-6+ N 27 '24
Must sales managers learn a new language? G: W. Hopkins. Ptr Ink 129:147-8 D 11 '24
No desk at home office for this sales manager. G. A. Nichols. Ptr Ink 133:3-4+ N 5 '25
No more traveling! R. Barstow. Forbes 16: 25-6 Ap 15 '25
Picture of two efficient managers. A. P. Hallmark. Ptr Ink 132:85-6+ Jl 23 '25
Position of the modern sales manager. L. M. Waite. Iron Age 114:291-2 Jl 31 '24
Sales managers who never packed a grip. Ptr Ink 130:41-2 F 26 '25
Wanted—a sales manager who is too busy to read. Sales Management 6:435+ Ja '24
What the traveling sales manager does. Ptr Ink 133:152+ O 15 '25
When the wrong man has authority to say no. Sales Management 8:399-401 Mr 7 '25
Why some good sales managers do not sell. M. K. Powers. Sales Management 7:1833+ D '24

See also Branch managers

Expenses

Expenses of a traveling sales executive. Ptr Ink M 9:136 S '24

Salaries

How should a sales manager be paid? Ptr Ink M 10:50 F '25
On what basis should sales managers be paid? J. G: Frederick. Gas Age 56:539-40 O 10 '25
Truth about the salaries paid to sales managers. Sales Management 6:497-8 F '24

SALES managers' association
How to start a sales managers' association. J. C. Aspley. Sales Management 7:1722+ N '24

SALES manuals
Building a successful sales manual. F. Juraschek. Management & Adm 7:674-6 Je '24
Competing manufacturers use same sales manual to educate salesmen. J. Henle. Ptr Ink 126:73-4+ Ja 3 '24
Composite picture of fifteen salesmen's manuals. E. B. Weiss. Ptr Ink 126:41-2+ F 14 '24
How sales arguments are presented in the sales manual. E. B. Weiss. Ptr Ink 127: 120+ Ap 10 '24
How to get salesmen to use the sales manual. E. B. Weiss. Ptr Ink 127:41-2+ My 8 '24
Little touches that make sales manuals more effective. E. B. Weiss. Ptr Ink 128:158+ Ag 7 '24
Sales manual—what it should contain and how to prepare it. J: A. Murphy. Ptr Ink M 8:23-4+ F '24
Teaching salesmen to capitalize the prospect's objections. E. H. Shanks. il Sales Management 9:217-18+ Ag 22 '25
This sales manual makes a short cut to the dotted line. R. W. Johnson. Sales Management 8:515-16 Ap 4 '25
Todd sales manual takes salesmen behind the scenes. Sales Management 9:28 Jl 11 '25
When the salesman writes his prospects. R. Crothers. Ptr Ink 130:123-4 Ja 1 '25

SALES manuals, Retail
Bringing out a new line—the dealer's angle; the Marmon automobile. D. Gridley. Ptr Ink 130:125-6+ F 19 '25
Getting dealers to swap selling experiences; manufacturer of A B C washing machines compiles manual to help retailers. Ptr Ink 125:105-6+ D 27 '23
Making retail saleswomen art connoisseurs. Ptr Ink 130:167+ Ja 1 '25
Manuals that teach retailers how to get more business. E. B. Weiss. Ptr Ink 128: 41-2+ Ag 14 '24
Material that makes a retail manual helpful. M. Hastings, jr. Ptr Ink M 10:56+ Ja '25
When dealer ignorance is an obstacle to sales. D. Gridley. Ptr Ink M 11:39-40+ O '25

SALES policies
Address all letters to the firm; why Butler brothers have executed a turnabout. Ptr Ink 129:28 N 27 '24
Advertising displaces free deals and sampling in Iodent campaigns. A. J. Lauttmann. il Sales Management 6:1087-8 Je '24
Buyers' whims and salesmen's ideas that wreck a business. R. W. Johnson. Sales Management 9:517+ O 17 '25
Carrying cash selling into the wholesale field. G. Triplett. Forbes 14:94 Ap 26 '24
Educational department to supplement advertising. R. M. Farrell. Ptr Ink 127:109-10 Je 26 '24
Eleventh-hour selling; why it pays to push a product the hardest when it is selling the easiest. E. J. Little. Ptr Ink M 8:39-40 Ja '24
Evils of courtesy sales. G: H. Wicker. Ptr Ink 129:3-4+ D 18 '24
Find the master selling appeal and then stick to it; Robert A. Johnston company. H. Chandler. Ptr Ink M 11:39-40+ Jl '25
Foundry sales methods that made money. il Iron Age 116:401-4 Ag 13 '25
Four policies on which we built a $10,000,000 business; the Palmolive company. System 47:477-80+ Ap '25
Four policies that widened sales boundaries; Minneapolis bedding company. J. M. Anderson. il System 45:461-4+ Ap '24

SALES policies—*Continued*
Getting old customers to land new ones. Ptr Ink 126:28 F 7 '24
Getting one customer to produce five more. A. Belden. Ptr Ink 128:105-6+ Ag 14 '24
Getting the salesmen to push a general co-operative plan. H: Burwen. Ptr Ink 125:65-6+ N 22 '23
Helping the salesman sell the full line; Northam Warren, Beech-Nut and Yale & Towne offer suggestions. R. Dickinson. Ptr Ink M 8:31-2+ My '24
Hidden factors in the sale. R. Dickinson. Ptr Ink 128:3-4+ Ag 21 '24
Hitting the high spots vs. selling the goods. R. Crothers. Ptr Ink 128:113-14+ S 4 '24
Hooking up advertising to sales in the industrial field; a small sales territory attached to the advertising department. Ptr Ink 126: 121-2 F 7 '24
How Black & Decker get co-operation of distributors. G. W. Brogan. Ptr Ink 129:57-8+ O 23 '24
How customers are lost and salvaged. J. A. Worsham. Ptr Ink 129:17-20 N 27 '24
How the wheels go round in the Brunswick sales department. A. J. Kendrick. Sales Management 6:409-10+ Ja '24
How Walworth speeds slow movers among its 23,000 items. W. C. Mattox. Ptr Ink 131: 3-4+ Je 4 '25
How we are preparing the ground for future advertising. C. B. Dicks. Sales Management 8:551-2+ Ap 4 '25
How we developed the one best sales argument; the satisfied customer. H. W. Hoover. il System 46:274-7+ S '24
How we solved the price problem in selling to department stores. G: F. Earnshaw. il Sales Management 8:295-6+ F 21 '25
Knox factory workers basis of new marketing plan. A. Belden. Ptr Ink M 7:21-2+ D '23
Manufacturers' salesmen and the association campaign. M. Hastings, jr. Ptr Ink 131:73-4+ Je 11 '25
Meeting the retailer's argument against quality and high price. R. Cole. Ptr Ink 128:85-6+ S 25 '24
Napanee's flying squadron of resale men. A: Belden. Ptr Ink 125:52+ N 8 '23
Nine executives answer vital questions on getting new dealers. C: G. Muller. Ptr Ink 132:3-4+ Ag 13 '25
No General Motors division will require or permit dealers to be overloaded. A. V. Comings. Automotive Ind 51:449 S 4 '24
Now let's abolish a few wasteful practices. H. D. Arthurs. Ptr Ink 133:41-2+ O 1 '25
Only kind of advertising that pays; first determine consumers' needs. F. R. Plumb. System 47:311-15+ Mr '25
Orange crush sales jump thousand percent in eight years. A. R. Hahn. Sales Management 9:275-6 S 5 '25
Overcoming dealer jealousy of a too successful product. W. H. Heath. Ptr Ink 127:17-20 Je 19 '24
Plebeian product is made aristocratic and sales jump; McClary's enameled ware. W. Lamont. Ptr Ink 129:85-6+ D 4 '24
Producer and his sales problems in relation to wholesaler, retailer, and consumer. J: C. Frazee. Ann Am Acad 115:190-8 S '24
Putting the spirit of 1924 into the product of 1889; keeping a business perennially young. R. Giles. Ptr Ink 125:3-4+ D 27 '23
Receiver comments on the mass production mania. J: P. Wilder. Sales Management 8:375-6 Mr 7 '25
Report of N.W.D.A. committee on salesmen and selling methods. Oil Paint & Drug Rep 106:33-4+ O 1 '24
Report of N.W.D.A. committee on salesmen and selling methods. Oil Paint & Drug Rep 108:32-3 O 15 '25
Sales doubled when modern ideas took the place of old; Edward N. Riddle company. A. Belden. Ptr Ink 126:41-2+ Ja 17 '24
Sales jumped when we told buyers how to use our products. E. M. Wickes. Sales Management 7:1457-8+ S '24
Sales policies and anti-trust laws. G. H. Montague. Sales Management 9:477-8+ O 17 '25
Sales policies that built a million dollar business in nine years; Russell electric company, Chicago. Sales Management 9:203-4+ Ag 22 '25
Sales policy that gives retailers choice of three selling plans; how Tappan stove helps dealers move its product. Ptr Ink 127:174+ My 15 '24
Sales volume not always a safe guide. L. Allen. Ptr Ink 132:17-20 S 17 '25
Securing maximum profits from new territory. R. Crothers. Ptr Ink 128:121-2+ S 11 '24
Sell the home territory first. R. H. Barker. Ptr Ink 131:167+ Ap 9 '25
Selling fighting brands to shield famous products. Ptr Ink 128:25-6+ Jl 17 '24
Selling practices are analyzed. E. T. Weir. Iron Tr R 74:1497-8+ Je 5 '24; Same cond. Iron Age 113:1639-40+ Je 5 '24
7 policies that have doubled our sales. C. L. Pool. il System 48:273-5+ S '25
Sluggish market corrected by sale of draperies instead of drapery material. Ptr Ink 127:121-4 Ap 3 '24
Spotlighting the product for key jobbers. Ptr Ink 127:3-4+ Je 26 '24
To sell or not to sell? A. H. Deute. Ptr Ink M 8:48, 50 Ap '24
Twelve ways of increasing the ability of the product. B: Jefferson. Ptr Ink 127:3-4+ Je 12 '24
Unprofitable small order—what can be done about it? Ptr Ink 129:103+ O 2 '24
Walworth's method of regulating its sales to coming demand. W. C. Mattox. Ptr Ink 126:3-4+ F 14 '24
Wamsutta dropped all private brands and then—. R: J. Walsh. Ptr Ink 131:3-4+ Ap 23 '25
We gave second youth to an old line. H. H. Riddleberger. Ptr Ink 132:17-19 S 3 '25
What will our trade say to this? A. H. Deute. Ptr Ink 132:101-4 Jl 9 '25
When a product goes wrong after leaving the plant. C: G. Muller. Ptr Ink 131:65-6+ Ap 9 '25
When minimum order rule is not good merchandising. G. A. Nichols. Ptr Ink 129:3-4+ D 11 '24
Why and how Brunswick changed its advertising policy. P. L. Deutsch. Ptr Ink 130: 41-2+ Ja 15 '25
Why I am against hiring salesmen away from competitors; general sales policies of Birtman electric company, Chicago. A. W. Fischer. Sales Management 6:635-6+ Mr '24
Why our first sales methods remain unchanged after 35 years. W. Wright. Sales Management 8:365+ Mr 7 '25
Why our sales have doubled every second year. A. H. Landwehr. il System 45:325-9+ Mr '24
Why this selling plan did not work; people do not like to have goods sent unsolicited. Ptr Ink 125:165-6 D 6 '23
Why we stopped advertising; created competition. Ptr Ink 131:104+ Je 25 '25

See also Advertising policies; Catalogs; Christmas business; Consignment selling; Counter display cabinets; Coupon books; Dealer helps; Demonstrators; Discount, Trade; Exhibits; Family of products; Good will (in business); Guaranty of goods; Home demonstration work; Instalment plan; January sales; Marketing; Models, Miniature; Premiums (merchandizing); Price fixing; Price policies; Private brands; Products, Improved; Retail stores, Manufacturers'; Returned goods; Sales promotion departments; Sales units; Samples (merchandizing); Service (in industry); Summer business; Turnover

SALES promotion departments
Armstrong linoleum field work that promotes sales. A. K. Barnes. Ptr Ink 125:8+ N 15 '23
Line between sales promotion and sales research. Ptr Ink 127:17-19 Je 26 '24
Making the market grow. Iron Age 116:1241-2 N 5 '25

SALES promotion departments—*Continued*
Only real basis for successful sales promotion is research. J. True. Ptr Ink 128:33-4+ Jl 31 '24
Sales development—a Sherwin-Williams innovation. C. M. Lemperly. Ptr Ink 132:109-12 S 10 '25
Way to check-up on calls that salesmen miss. N. C. Tompkins. Ptr Ink 127:105-6+ Ap 17 '24

SALES quotas
Analysis of salesmen's quotas. A. R. Burnet. Management & Adm 8:487-90 N '24
Before you set quotas for your salesmen. H. Chandler. Ptr Ink 130:88+ F 5 '25
Budget sales quotas: a problem and suggested solution. J. H. Barber. Harvard Business R 3:210-20 Ja '25
Co-ordination of production with sales for oil companies. E. S. Reynolds. Management & Adm 7:85-9 Ja '24
Determining a sales quota basis. E. R. Smith and P. W. Smith. Harvard Business R 4: 49-56 O '25
Guessing bees vs. common-sense facts in setting quotas. E. H. Toussaint. Ptr Ink 131: 10+ Ap 23 '25
Helping the dealer set his monthly quota. Ptr Ink 128:49+ S 11 '24
Hood Rubber sales budgets. K. W. Stillman. Management & Adm 9:417-20 My '25
How much can we sell next year? G: A. Hughes. Sales Management 7:1703-4+ N '24
How shall we establish the sales quota? R. Crothers. Ptr Ink M 10:25-6+ F '25
How Stewart-Warner found 25,000 new sales outlets. Sales Management 9:573+ O 31 '25
How to set accurate sales quotas and determine sales expenses. G. C. Willings. Ptr Ink 133:120+ O 29 '25
Our experience with quotas. J. Ewing. Sales Management 6:637-8 Mr '24
Point system a base for salesmen's quotas. J Elec 52:63 Ja 15 '24
Quota system gives Chevrolet better control of retail selling. D. M. McDonald. Automotive Ind 52:861-2 My 14 '25
Sales force answers the question of increased quotas. D. Hubbard. Ptr Ink 125:41-2+ D 6 '23
Sales managers' quotas. C. N. Stone. Ann Am Acad 115:216-19 S '24
The sales; practical aid in selling gas appliances. W: Gould. Am Gas J 123:23-4 Jl 11 '25
Sales quotas and contests in foreign markets. J. S. Martin. World's Markets 15:9 My '24
Sales quotas that play fair with the sales force. J. A. Worsham. Ptr Ink M 8:33-4 Je '24
Setting a pace for salesmen by establishing territorial quotas. G. T. Aitken. Iron Age 116:1108 O 22 '25
Setting sales quotas. G. C. Harrison. Management & Adm 8:491-5 N '24
Taking the bunk out of quota letters. C: G. Muller. Ptr Ink M 10:39-40 Mr '25
Taking the guesswork out of sales quotas. J. Heywood. Forbes 13:634+ Mr 1 '24
These sales records ought to stimulate your salesmen. W. Bates. Ptr Ink 130:33-4+ Mr 5 '25
What determines the right sales quota? L. E. De Groat. Ptr Ink 127:19-20 My 8 '24

SALES records
Chart keeps track of an entire year's sales of 1,100 men. Sales Management 7:1651+ O '24
Combining the sales record with the mailing list. K. G. Merrill. System 47:192+ F '25
How I learned to find hidden sales facts in graphic charts. H: M. Roberts. Sales Management 6:1129-30+ Je '24
How Phillips-Jones got around the hand-to-mouth epidemic. J. Ewing. Sales Management 7:1705-7+ N '24
How we control salesmen's calls. F. A. Werner. il System 48:322+ S '25
Making a graphic analysis of the monthly sales statement. R. von Huhn. Ptr Ink M 10:55-6+ Mr '25
Now our sales analysis tells a really useful story. W: B. Spooner, jr. System 48:179-80+ Ag '25
Our records tell us—. I. R. Jacobs. il System 47:51-3 Ja '25
Sales analysis that saves $1,000 a month. F. E. Rand. Sales Management 7:1733-4 N '24
Sales district rating scale. W. Hainsworth. Management & Adm 9:381 Ap '25
Sales records and their relation to sales promotion. W: A. Staving. Ptr Ink M 9:26-8 O '24
Sales report that helps to balance sales. R. Dickinson. Ptr Ink 132:167-8+ S 10 '25
We make our records win new sales. P. T. Tobey. System 48:35-8+ Jl '25
What do you know about customers and prospects? W. B. Edwards. Ptr Ink M 11:76+ S '25

See also Salesmen's reports

SALES research
When a woman searches for the sales angle. M. Higley. Ptr Ink 129:119-20+ O 2 '24

SALES tax
Senator Reed Smoot explains his sales tax measure. Ptr Ink 126:10+ Ja 24 '24

SALES territories
Catechism for salesmen who meander all over the map. C. C. Casey. Ptr Ink 130:148+ F 19 '25
Government analyzing domestic markets and mapping trade zones. H: H. Morse. Ptr Ink 128:149+ Ag 28 '24
Laying out salesmen's territories. J. J. Witherspoon. Ptr Ink M 11:43-4+ N '25
Planning salesmen's territories. G. E. Bittner. maps U S Bur For & Dom Com Trade Information Bul 314:1-12 '25; Same cond. Iron Tr R 76:938-40+ Ap 9 '25
Potential market—how can it be made real? Bassick manufacturing company. D. M. Hubbard. Ptr Ink M 9:50+ O '24
Salesman's territory is cut to make more sales. C: G. Muller. Ptr Ink 130:69-70 Ja 22 '25
Salesmen who pioneer in off-the-trail territory. W. R. Heath. Ptr Ink 131:155-6+ Ap 23 '25
Setting a pace for salesmen by establishing territorial quotas. G. T. Aitken. Iron Age 116:1108 O 22 '25
What Edson-Moore learned when they began cutting territories. D. G. Baird. Sales Management 6:664 Mr '24
When salesmen complain about saturated territories. Ptr Ink 132:60+ Ag 20 '25
When the salesman blames his territory. R. Crothers. Ptr Ink M 10:39-40+ Ja '25

Rating
Sales district rating scale. W. Hainsworth. Management & Adm 9:381 Ap '25

SALES units
Buy small and often trend leads to new sales units. B. A. Grimes. Ptr Ink 132:109-10 Ag 6 '25
Drop shipments as a solution for piecemeal buying. M. Hastings, jr. Ptr Ink 131:125-6+ Ap 16 '25
Fitting the sales plan to present day buying tendencies; Earl & Wilson extend assortment plan of selling. J. B. Wright. Sales Management 7:1340+ Ag '24
How an assortment selling plan is being merchandised; Aluminum goods manufacturing company, Manitowoc, Wis. E. B. Weiss. Ptr Ink M 8:32-3 F '24
Selling assortments. A. J. Reiss. Ptr Ink M 9:73 Jl '24
Smaller selling unit gets Chinese market for Sun-maid. Ptr Ink 128:69-70+ Ag 28 '24
Suit the sales unit to the situation. R. Dickinson. il Ptr Ink M 8:27-8+ F '24
What does the dealer think of assortment purchases? A. H. Van Voris. il Ptr Ink M 9:24-5+ Ag '24

See also Package goods

SALESMANSHIP
Adventures in overseas selling. B. Lawson. Sales Management 7:1335-6+ Ag '24

SALESMANSHIP—*Continued*

Advertising goes to work as part of the sales approach; Carnation milk advertising. Sales Management 7:1299-1300 Jl '24

After the sale is over. W. B. Edwards. Ptr Ink 130:76 Ja 15 '25

Analysis of selling method. E: D. Berry. 33p Dean-Hicks co., Grand Rapids, Mich. '24

Answering the parrot buyer. M. Higley. Ptr Ink 130:125-6+ F 26 '25

Are salesmen doing too much selling? M. Droke. Sales Management 7:1378+ Ag '24

Are salesmen selling too many things besides merchandise? F. R. Jones. Ptr Ink 130:3-4+ Ja 29 '25

Are we overselling the advertising and underselling the product? E. Whitmore. Sales Management 8:685-6 My 2 '25

Are your salesmen bunk artists or spunk artists? A. H. Deute. Ptr Ink M 10:29-30 F '25

Are your salesmen gushers or probers? W. L. Barnhart. Ptr Ink M 10:31-2 Je '25

Are your salesmen talking terms or selling merchandize? W. G. Caldwell. Sales Management 8:397-8 Mr 7 '25

Arguments for the buyer who wants something special. C. C. Casey. Sales Management 7:1857-8+ D '24

Arousing the desire to buy. H. Whitehead. il Am Exporter 94:20-1+ Ap '24

Art of selling. A. F: Sheldon and G. R. McDowell. 296p Sheldon school, Chicago '23

Artistry and devotion in salesmanship. T. H. B. Whipple. Sibley J 38:39-40 F '24

Aspects of selling, from the manufacturers' and purchasers' viewpoints. W. P. Mosteller. N E Water Works Assn J 38:287-93 S '24; Same cond. Eng & Contr (W W) 63:116-18 Ja 14 '25

Bait for the sucker, not for business men. J. B. Gray. Inland Ptr 76:222-3 N '25

Bell-wether markets. C. B. Larrabee. il Ptr Ink M 8:19-21+ F '24

Big buyer who kicks on price. J: C. Nevins. Sales Management 8:795-6+ My 30 '25

Biggest thing in selling—making the buyer want it. M. Droke. Sales Management 6: 643-4 Mr '24

Broadway's crack auto salesmen. A. Slavitt. Sales Management 8:735-6+ My 16 '25

Bulletins that furnish salesmen with conversation. I. Fleming. Ptr Ink M 8:52+ My '24

Business power through psychology. E. J. Swift. 397 Scribner '25

Buyer who harps on the other fellow's price. D. G. Baird. Sales Management 7:1741-2 N '24

Buyer who thinks he can't afford it. Sales Management 9:571-2 O 31 '25

Buyers who say see me later. Sales Management 9:481-2+ O 17 '25

Can American selling methods be used in foreign markets? H. B. Blauvelt. Ptr Ink M 9:27-8+ Ag '24

Close-fisted buyer who wants a special concession. Sales Management 9:405-7 O 3 '25

Closing the big sale that hinges on small details. E. Whitmore. Sales Management 8:217-18 F 7 '25

Coaching the salesman who has a skull-and-crossbones list. W. H. Heath. Ptr Ink 125: 25-8 D 27 '23

Create the idea, but be sure you sell it! F: I. Lackens. Inland Ptr 76:217-18 N '25

Dealer tells why some advertisers are "in Dutch" with him. G. T. Kernahan. Sales Management 7:1507-8+ S '24

Do your salesmen talk in riddles to the public? E. M. Wickes. Sales Management 8: 305-6+ F 21 '25

Does it pay to educate customers? D. E. Stetson. Ptg Art 43:541-6 Ag '24

Dramatic openings for the selling talk. A. H. Deute. Ptr Ink 132:89-90 Ag 20 '25

Engineer does the buying in the electrical field. il Sales Management 8:388-90 Mr 7 '25

Engineering salesman. E. H. Sniffin. Eng & Contr (W W) 63:515-16 Mr 11 '25

Engineering salesman. E. H. Sniffin. Sibley J 38:38-9 F '24

Ethics of salesmanship. A. Watson. Gas J (Lond) sup 4:205-8 O 14 '25

Exaggeritis—a salesmanship blight. W: B. Sinclair. Ptr Ink 128:57-8+ Jl 31 '24

Expert advice that increases sales. D. Gridley. Ptr Ink M 8:34-5 My '24

Fifty-two, the magic number in selling. M. Hastings, jr. Ptr Ink 131:126+ Je 18 '25

Finding the inside track in selling to the textile industry. C. W. Hamilton. il Sales Management 8:609+ Ap 18 '25

First find out why your prospects do not buy. Ptr Ink 132:33-4+ Jl 23 '25

Friendly salesman who keeps customers and loses sales. A. H. Deute. Ptr Ink M 8:19-20 Ja '24

From desire to action. H. Whitehead. Am Exporter 95:15-17 Ag '24

Genesis of a dual personality. Am Mach 60: 649-50, 966 My 1, Je 26 '24

George Eberhard's letters to salesmen. Sales Management 7:1539-40 S '24

Golf as a lesson in selling form. A. H. Deute. Ptr Ink 129:17-20 D 18 '24

He did a year's business in one month. D. G. Baird. Sales Management 9:409-10 O 3 '25

Helping dealers use their legs; creating lumber business by advocating repairs. G. A. Nichols. Ptr Ink 129:117-18+ O 9 '24

Here's how salesmen can break records in 1925. Ptr Ink 130:167+ Ja 8 '25

Hints for salesmen who call on chain stores. Ptr Ink 130:84 Ja 22 '25

His bid was $40 higher but he nailed the order. Sales Management 6:571-2 F '24

How I made my largest sales. S: Heifetz. il System 46:423-4+ O '24

How I saved a $6,000 order. A. F. Burrows. Sales Management 6:453 Ja '24

How many calls should a salesman make after he has been turned down? J. A. Worsham. Ptr Ink M 10:94+ Ap '25

How much should the salesman talk about the other fellow's line? R. Giles. Ptr Ink 126: 57-8+ F 28 '24

How not to sell. D. A. Hampson. Am Mach 61:409-10 S 11 '24

How the wheels go around in industrial purchasing departments; selling the big prospect. il Sales Management 7:1341-2 Ag '24

How to organize an idea for a business talk. B: Bills. Ptr Ink 126:149-50+ Mr 13 '24

How to sell yourself successfully. J. L. Lange. Paper Tr J 77:61-4 D 6 '23

How to torture your customers; the salesman who constitutes himself a censor. W. H. Heath. Ptr Ink 129:115-16+ D 11 '24

How twenty-seven salesmen meet price objections. Sales Management 9:343-4 S 19 '25

How we sell dealers who are overloaded with other goods; Canada Dry's solution of this problem. P. M. Boggs. Ptr Ink 131:17-19 My 7 '25

Human grit and salesmanship. J: H. Kern. 96p M. N. Ask & co., New York '25

Human interest in advertising. C: M. Horton. Ptg Art 44:266-8 N '24

Humble selling. W. Brindley. Gas Age 55:500+ Ap 4 '25

I don't want any tombstone ideas among my salesmen. B. J. Williams. Ptr Ink 129: 52 N 20 '24

I don't want my salesmen to use selling tricks. R. Giles. Ptr Ink M 10:26+ Mr '25

I wonder who really is my star salesman. R. A. Ferguson. Ptr Ink 130:25-6+ Ja 1 '25

I wonder who's selling him now? W. Lamont. Ptr Ink 130:17-20 Mr 5 '25

I'm all stocked up; uncommon ways of meeting a common objection. W. B. Edwards. Ptr Ink 128:41-2+ Jl 10 '24

Increased distribution doesn't always mean more sales. A. H. Deute. Ptr Ink 131:105-6+ Je 11 '25

Increasing sales with crop reports and forecasts. Ptr Ink 126:33-4+ Ja 31 '24

Is advertising all? should talk to dealers about advertising be toned down? F. J. Charles. Ptr Ink 131:41-2 Ap 9 '25

Is it any wonder some salesmen can't sell quality? E. Whitmore. Sales Management 8: 811-12 My 30 '25

SALESMANSHIP—*Continued*

Is selling underwear still dependent on overhead? P. Waxman. Ptr Ink M 11:136+ N '25

Is the salesman's job being changed? A. Freeman. Ptr Ink 128:56 S 4 '24

Is your sales force selling politics? R. Dickinson. Ptr Ink 128:3-4+ Jl 3 '24

Kind of salesmen who succeed in selling to machine shops. Sales Management 8:556-8 Ap 4 '25

Knowing the fads and foibles of 1,000 retailers. A. H. Deute. Ptr Ink 131:17-20 Ap 2 '25

Let's found a society for the elimination of pet sales alibis. A. H. Deute. Ptr Ink M 10:23-4+ My '25

Little faults which kill big orders for salesmen. W. R. Heath. Ptr Ink 131:163-4+ Ap 2 '25

Live customers instead of cordial prospects. E. Wolff. Ptr Ink M 10:37-8 F '25

Low prices cut down volume. Ptr Ink M 8: 30+ Je '24

Making a dealer vs. making a train. M. Droke. Forbes 14:500+ Jl 19 '24

Making orders flow downhill. R: Surrey. Ptr Ink 126:3-4+ F 21 '24

Material salesmen and the architect. R. W. Blodgett. Eng & Contr (Bldgs) 62:1191-2 N 26 '24

Maxims of selling wisdom. A. Bradbury. Ptr Ink 132:57-8 Jl 9; 49-50+ Ag 13 '25

Meeting the price argument for orphan goods. Ptr Ink 133:114+ O 8 '25

Modern salesmanship. J. G: Frederick. 325p Holt '25

My answer to seven common sales objections. D. Ventura. System 48:41-2 Jl '25

New era in buying for big industry demands better selling. il Sales Management 7:1209-10+ Jl '24

New tools in the salesman's kit; Bird & son develop a merchandising plan. A. Belden. il Ptr Ink 127:121-4 Je 12 '24

Nothing takes the place of footwork. R. Dickinson. Ptr Ink 132:137+ S 24 '25

One of two men in New York who can sell printing; B. J. Sweetland. M. S. Balyeat. Ptg Art 45:29-32 Mr '25

Our business is not different. C: A. Bonniwell. Sales Management 7:1661+ O '24

Our price is not too high. W. R. Neisser. Ptr Ink 131:61-2+ My 7 '25

Pace-makers of 1924. Sales Management 7: 1831-2 D '24

Packard's canned sales talk; phonograph records loaned by salesmen. D. G. Baird. il Sales Management 7:1373-4+ Ag '24

Page from the book of etiquette for salesmen. B. J. Williams. Ptr Ink 129:73 D 11 '24

Painted lilies. W. G. Caldwell. il Sales Management 6:1138+ Je '24

People don't see what they look at. R. Leigh. Ptr Ink 127:85-6+ My 22 '24

Personal solicitation as a part of the trust selling campaign. T. T. Weldon. Bankers M 111:571-5 O '25

Plain tales from the sticks. J. A. Worsham. Ptr Ink 132:134+ Jl 9 '25

Practical salesmanship, demonstration method. 16v Nat. salesmen's training association, Chicago '25

Principles of personal selling. H. R. Tosdal. 753p [bibliog. p. 721-7] Shaw '25

Printed rules in selling. R. Crothers. Ptr Ink 127:101-2+ Je 26 '24

Problems and projects in salesmanship. J: A. Stevenson. 52p Harper '23

Psychology of salesmanship. A. H. Jones. Gas J (Lond) sup 4:131-3 Je 24 '25

Psychology of selling and advertising. E: K. Strong. 468p McGraw-Hill '25

Repairs organisation: the procedure of the salesman with regard to repairs. W. J. Hiscox. Elec R (Lond) 96:831-2 My 22 '25

Retailer instructs salesmen in the art of ousting rivals. A. H. Van Voris. Ptr Ink 125: 138+ D 20 '23

Revised sales argument that sold every prospect on the list. C. R. Ferrall. Ptr Ink 133: 73-4+ O 8 '25

Sale a day keeps the blues away. W. L. Barnhart. Ptr Ink 133:110+ N 5 '25

Sale that begets a sale. E. M. Wickes. Ptr Ink 128:91-2+ Jl 10 '24

Sales principles. H. Whitehead. Am Exporter 94:14-15 Ja '24

Sales tactics that put a slipping territory on its feet; spectacular stunts have no place. H. E. Waldron. Sales Management 8:291-2 F 21 '25

Salesman, know the credit man! R. P. Wilson. Credit M 26:14-15 Ag '24

Salesman tells how he spends his time. P. V. Bunn. Sales Management 9:362+ S 19 '25

Salesman who cannot get the price. A. H. Deute. Ptr Ink M 8:29-30+ F '24

Salesman who entertains old man gloom. Sales Management 6:957+ My '24

Salesman who neglects business in his headquarters town. J: M. Garth. Sales Management 8:39-40 Ja 10 '25

Salesman who over-talks his product. W. H. Heath. Ptr Ink 129:77-8+ O 23 '24

Salesman who puts a dramatic kick into his sales plan. A. H. Little. Sales Management 8:142-4+ Ja 24 '25

Salesman who says, "Oh, I know all about my territory." Sales Management 8:967-8 Je 27 '25

Salesman who says "sign here" and gets away with it. R. J. Comyns. Sales Management 6:513-14 F '24

Salesman who thinks he has all the trade in his vest pocket. J. F. Miller. Sales Management 7:1250+ Jl '24

Salesmanship. E. E. Ferris and G: R. Collins. 414p Ronald press '24

Salesmanship. W: H. Parry. Metal Ind 22:155-6 Ap '24

Salesmanship applied. P. W. Ivey. 333p Shaw '25

Salesmanship in architectural practice. H. Taylor. Arch Forum 40:205-8 My '24; Same. Eng & Contr (Bldgs) 61:1398-1402 Je 25 '24

Salesmanship that unravels the red tape of railroad buying. C. W. Hamilton. il Sales Management 8:182-3+ Ja 24 '25

Salesmen tell how they would help their weaker associates. Ptr Ink 126:130+ Ja 3 '24

Salesmen who failed to sell me. Ptr Ink 130: 25-6+ Mr 12 '25

Salesmen who finish only half their job. A. H. Deute. Ptr Ink 131:138+ Je 25 '25

Salesmen who pioneer in off-the-trail territory. W. R. Heath. Ptr Ink 131:155-6+ Ap 23 '25

Salesmen who sell themselves rather than the line. A. H. Deute. Ptr Ink 130:41-2+ Mr 26 '25

Salesmen's trumps for buyer's aces. C: G. Muller. Ptr Ink 132:3-4+ Jl 2 '25

Salesmen's wasted time that adds to cost of distribution. R. Dickinson. Ptr Ink 129:93-4+ N 6 '24

Secret of salesmanship. F. F. Farrington. 2d ed. 218p Powell & White, Cincinnati, O. '23

Sell the big ones first. Sales Management 9: 225-6+ Ag 22 '25

Selling a car a day. E. Whitmore. il Sales Management 8:293-4+ F 21 '25

Selling by mathematics. A. O'Neill. Ptr Ink M 9:26 Ag '24

Selling deals is not selling merchandise. A. H. Deute. Ptr Ink M 9:90+ O '24

Selling salability. T: McMullen. Ptr Ink 129:25-6+ O 16 '24

Selling salesmen on intensive cultivation of prospects. C. C. Casey. Ptr Ink 129:136+ O 30 '24

Selling that reaches the scientific buyers for the steel industry. il Sales Management 8: 253-6 F 7 '25

Selling the buyer who thinks he is always right. D. Argyle. Ptr Ink M 7:25-6 D '23

Selling the farmer on one call. C: G. Muller. Ptr Ink 128:41-2+ S 4 '24

Selling the non-cancellation idea to salesmen. E. Wolff. Ptr Ink M 8:33-4 Mr '24

Selling the talk-weary buyer. M. Droke. Sales Management 6:1083 Je '24

SALESMANSHIP—*Continued*
Selling to presidents. Ptr Ink 132:3-4+ Jl 16; 89-90 Jl 30 '25
Short jabs of practical selling philosophy. S. Hopper. Ptr Ink M 11:69-70+ Jl '25
Should I sell service or merchandise? F. J. Charles. Ptr Ink 129:49-50+ O 9 '24
Showing salesmen the bad ethics of price concessions. H. D. Arthurs. Ptr Ink M 11:27-8+ Ag '25
Six plans that increased sales. System 45: 652 My '24
Slick salesman makes a poor business lubricant. W. H. Heath. Ptr Ink 127:149-50+ Ap 17 '24
Small town stuff. C. L. Funnell. Ptr Ink 130: 81-2+ Ja 29 '25
Social calls or sales interviews? H. See. Ptr Ink 132:69 S 17 '25
Some fine points in salesmanship. B. F. Richards. Am Gas J 122:34+ Ja 10 '25
Spirit of service in technical selling. J. Hope. Am Mach 61:819 N 20 '24
"Stars and stripes forever" is a nice march but a rotten sales talk. R. Brown. il Sales Management 8:436-8 Mr 21 '25
Stop talking and ask for the order. R. Mede. Sales Management 8:688-90 My 2 '25
Stubbing your toe and finding hidden selling ideas. W: G. Clifford. Sales Management 7: 1849-50 D '24
Textbook of salesmanship. F: A. Russell. 319p McGraw-Hill '24
Theory and practice of selling. 155p California college of commerce, San Francisco '23
Thirty ways to increase sales. 2d ed. 46p Dartnell corp., Chicago, New York '24
This is the way I make my sales. System 47: 740 Je '25
Thoughts on salesmanship for debit men. W: C. Morton. Spectator 115:35-6 O 22 '25
Thumbs down for the corner-cutting salesman. A. H. Deute. Ptr Ink 131:85-6+ Ap 23 '25
Tight-rope salesmanship and its hazards. B. R. Brooker. Ptr Ink 129:3-4+ O 9 '24
Timid salesman who is afraid to ask for the order. J. C. Aspley. Sales Management 9:81-2 Jl 25 '25
To hoist your sales, never raise an argument. G: J. Barnes. Forbes 15:289+ D 1 '24
To sell or resell? which will insure survival? A. F. Osborn. Ptr Ink 126:53-4+ F 21 '24
Traps that are set for unwary salesmen. W. R. Heath. Ptr Ink 130:160+ F 19 '25
Underlying principles of getting new business. C. A. Semrad. Gas Age 55:922 Je 27 '25
Visualizing intangibles to increase sales; photographs of marketable property. A. Schoenberg. il System 45:781-2 Je '24
Wanted—a clearing house of ideas for dealers; salesmen who help. C. B. Larrabee. Ptr Ink 130:93-4+ Ja 15 '25
Way to increase your daily sales. System 47:50 Ja '25
What are your salesmen saying? H. T. Bussman. Ptr Ink M 10:27-8+ Mr '25
What can the retailer expect from the manufacturer's salesman? A. H. Van Voris. Ptr Ink M 10:80+ Mr '25
What do your salesmen sell? get dealer right on quality and price question. G. A. Nichols. Ptr Ink M 9:27-8+ D '24
What else should a salesman be? R. Dickinson. Ptr Ink M 10:41-2+ Ap '25
What is supersalesmanship? C. C. Casey. Ptr Ink M 8:64+ Mr '24
What is this merchandising we hear so much about? R. Barstow. il Ptr Ink M 8:46+ My '24
What should a salesman do besides sell? C. B. Larrabee. Ptr Ink M 8:19-20+ Ap '24
When a competitor sells your customers. F. M. Barber. Ptr Ink M 9:52 Ag '24
When a star salesman can drag the retailer down; futility of price and discount appeal. S. B. Sieg. Ptr Ink 128:141+ Ag 21 '24
When a territory goes bad. Sales Management 8:964 Je 27 '25
When I was on the road. L. Benedict. Ptr Ink M 10:25-6+ Je '25
When salesmen complain about saturated territories. Ptr Ink 132:60+ Ag 20 '25
When salesmen sell to women. W. R. Heath. Ptr Ink 130:89-90+ Mr 5 '25
When the buyer thinks he is loaded to the guards. H. Van Demark. il Sales Management 6:1063-4+ Je '24
When the buyer's mind starts wandering. E: Wolff. Ptr Ink 130:73-5 Mr 26 '25
When the need arises to beat the previously set sales quota. F. L. Scott. Ptr Ink 125:3-4+ N 22 '23
When the sales manager leaves his big swivel chair. A. Slavitt. Sales Management 8: 869-70 Je 13 '25
When the salesman hunts big game. D. Argyle. Ptr Ink M 9:21+ Jl '24
When the salesman talks himself out of an order. A. H. Deute. Ptr Ink 126:3-4+ Ja 3 '24
When the young salesman knows too much. J: L. Love. Ptr Ink M 9:36+ Jl '24
When they try to rough me. R. Dickinson. Ptr Ink 132:17-20 Ag 6 '25
Where are the salesmen to sell these live prospects? J: M. Garth. Sales Management 7:1405-6 Ag '24
Where does the beginner begin? S: Lion. Inland Ptr 75:889-91 S '25
Where is the wallop of yesteryear? B. R. Brooker. Ptr Ink M 9:38-9+ S '24
Where to find the big constructive sales argument. R. Cole. Ptr Ink 128:137-8+ S 18 '24
Why and how do you sell? L. G. Herbert. Am Gas J 122:446 My 23 '25
Why salesmen must sell many things besides merchandise. H. F. King. Ptr Ink 130:125-6+ F 12 '25
Why some salesmen never have to worry about price competition. S. R. Hall. Sales Management 6:679-80 Mr '24
Why the sale is lost. A. H. Deute. Ptr Ink 131:3-4+ My 28 '25
Winning back customers lost by the credit department. E. Wolff. Ptr Ink 125:3-4+ N 8 '23
Your price is wrong; some answers that have helped salesmen who have to meet price objections. R. Giles. Ptr Ink 128:130+ Jl 31 '24

See also Advertising; Advertising and salesmen; Auctions; Business; Buying habits; Canvassing; Consignment selling; Coupon books; Family of products; Guaranty of goods; Home demonstration work; Instalment plan; Mail order business; Marketing; Merchandizing; Money raising campaigns; Order blanks; Package goods; Peddlers and peddling; Premiums (merchandizing); Products, Obsolescent; Sales contests; Sales letters; Sales management; Sales managers; Salesmen; Salesmen, Retail; Saleswomen; Samples (merchandizing)

Bibliography

Salesmanship. J: R. Whitaker. Ann Am Acad 115:251-2 S '24

Demonstrations

As salesmen these men are expert shoe shiners. R. McDaniel. il Sales Management 8: 803-4 My 30 '25
Breaking up a hard and fast buying habit with demonstrations. Sales Management 7: 1843-4 D '24
Demonstrating crews to sell industrial buyers. Ptr Ink 129:72+ D 25 '24
Demonstration plans that back up advertising claims. D. M. Hubbard. il Ptr Ink M 8:37-8+ F '24
Demonstrations and sales bulletins that get dealer co-operation. H. Whitehead. Ptr Ink M 9:50+ D '24
Demonstrations that department stores are glad to stage. J. True. Ptr Ink 129:158+ O 16 '24
Hoover sales convention features demonstration plans. il Sales Management 9:145-6 Ag 8 '25

SALESMANSHIP—Demonstrations—*Cont.*
How sales managers have increased business by cutting down talk. E. Whitmore. Sales Management 9:15-16+ Jl 11 '25
How we persuaded jobber salesmen to demonstrate our line. K. G. Merrill. Ptr Ink M 9: 32+ D '24
How Welsbach helps gas companies maintain sales. M. MacDonald. Ptr Ink 124:25-8 Ag 9 '23; Same. Am Gas J 119:595-6 D 1 '23
Near-automatic selling via demonstrations. W. B. Edwards. il Ptr Ink M 10:56+ My '25
New method of uncovering hot leads for salesmen. D. G. Baird. il Sales Management 9:289-90 S 5 '25
Our 100 salesmen don overalls to sell them. E. D. Voorhis. Ptr Ink 130:10+ F 26 '25
Our salesmen get added volume by store demonstrations. R. J. Shaw. Ptr Ink M 7: 46+ D '23
Salesman demonstrator at the exhibition. J. O. Knowles. Elec R (Lond) 94:685 My 2 '24
Salesmen's demonstrations that make industrial copy. W. H. Heath. Ptr Ink 130:93-4+ Ja 8 '25
60% fewer calls per sale. H. L. Ramsay. il System 46:624+ N '24
Store demonstration devices that solve selling problems. W. B. Edwards. il Ptr Ink M 9: 43-4+ S '24
Stunt that increased sales of the Simplex electric heating company. R. P. Ingalls. il System 46:158-9 Ag '24
Taking the demonstration room to the isolated prospect. il Sales Management 9:580 O 31 '25
Unearthed an idea thirty years old to increase our 1923 sales. A. E. Larned. il Sales Management 6:509-10+ F '24
Using photographs as entering wedge for salesmen's demonstrations. P. Yount. Ptr Ink M 10:112+ Je '25
Who said it can't be demonstrated? E. B. Weiss. Ptr Ink M 10:52+ F '25

See also Factory exhibits and demonstrations

Samples

See Samples (merchandizing)

Standardized sales talk

Can the canned approach! S. K. Wilson. Ptr Ink 133:57-8 O 22 '25
Can the selling process be standardized? G: W. Hopkins. Ptr Ink 132:121-2+ Jl 2 '25
Dramatizing sales instruction. W: Maxwell; M. H. Karker. il System 47:172-5+ F '25
Memorized sales talk gets a jolt. H. Whitehead. Ptr Ink 127:113-14 Ap 3 '24
Study the actor's standard selling talk! C. C. Casey. Ptr Ink 126:10+ F 28 '24
What is a standardized sales talk? Ptr Ink M 10:120+ Mr '25
Why I am keen about the so-called "canned" sales talk. J. R. MacPherson. il Sales Management 6:952+ My '24
Why many salesmen fail to succeed with a memorized sales talk. J: T. Bartlett. Sales Management 9:215-16 Ag 22 '25

Telephone calls

How I made ninety-nine percent of my sales; making appointments by telephones. C. Barber. Sales Management 7:1593-4 O '24
How we made the telephone pay for its keep. K. G. Silliman. System 46:715-16+ D '24
One salesman covered the country via telephone for $170. S. J. Steinmetz. Sales Management 7:1414+ Ag '24

SALESMANSHIP, Retail

Cases in retail salesmanship. N. Kneeland. 189p Shaw '24
Hosiery, knit underwear and gloves. N. Kneeland. 126p Shaw '24
Retail advertising and selling. S: R. Hall. 590p McGraw-Hill '24
Waists. N. Kneeland. 149p Shaw '24

SALESMEN

Can he pay?—our salesmen tell us. R. E. Nuese. System 48:275-6+ S '25
Chief duties of a salesman. H. V. X. Wright. Credit M 26:36 My '24
Direct mail and the salesman. C: A. Bates. Ptd Salesmanship 45:443-5 Jl '25
Even the star salesman is only a part of the constellation. Sales Management 7:1719-21+ N '24
Getting buyers to work harder; why salesmen waste time. Ptr Ink 132:3-4+ S 10 '25
Habit—and the salesman; the ring-tailed rangdoodles and hydra-headed whiffits of human nature that ride a good man to his doom. R. Mede. Sales Management 6:773-5+ Ap '24
Helping the dealer resell; how merchandisers on the sales force can get and improve contact between manufacturer and dealer. Ptr Ink 128:25-6+ Jl 3 '24
High cost of salesmen who don't sell. A. H. Deute. Ptr Ink 130:69-70+ F 26 '25
How many secrets should a salesman divulge about his last place? W. H. Heath. Ptr Ink 128:41-2+ Ag 7 '24
How salesmen can be taught to stand a run of hard luck. R. Crothers. Ptr Ink 127:89-90+ Ap 10 '24
How to turn salesmen into sales managers. C. C. Casey. Ptr Ink 128:57-8+ S 11 '24
Is the traveling salesman slipping; retailers' purchases made by mail. G. A. Nichols. Ptr Ink 127:33-4+ Ap 17 '24
Is work a lost art with salesmen of today? A. Sweet. il Sales Management 9:408+ O 3 '25
Just what is this thing called seasoning? A. H. Deute. Ptr Ink M 11:25+ O '25
Little salt on the tail of misdirected ambition. B. J. Williams. Ptr Ink 130:65-6 Ja 1 '25
The man who sells. R. Corbett. 152p Franklin pub. co., New York '24
No bread line for traveling salesmen in sight. T. J. Smith, jr. Ptr Ink 127:101-2 My 1 '24
Once-over salesman—a recently isolated species. H. D. Arthurs. Ptr Ink 131:41-2+ Ap 30 '25
Phoenix Mutual finds married men make best salesmen. C: S. Frederick. Sales Management 7:1419-20 Ag '24
Sales manager's fourteen points. Ptr Ink 127: 112 Je 19 '24
Salesman who carries accounts around in his pocket. A. J. Newman. Ptr Ink 129:98 O 2 '24
Salesman who fritters away his time with sidelines. Sales Management 6:913+ My '24
Salesman's sixteen qualifications. Ptr Ink 128: 120 Jl 10 '24
Salesmen—where do they grow? B. J. Williams. Ptr Ink M 8:35-6+ Ap '24
Salesmen who are big-man shy. W. H. Heath. Ptr Ink 130:145-6+ Ja 15 '25
Salesmen with the society complex. W. H. Heath. Ptr Ink 128:25-6+ S 25 '24
Seven ages of salesmen. Sales Management 6:381-2 Ja '24
Some inscriptions on the tombstones in our salesmen's graveyard. Sales Management 6: 631-2+ Mr '24
Squeezing secrets from salesmen's letters to headquarters. W. R. Heath. Ptr Ink 131: 125-6+ My 7 '25
Star salesman comes to the rescue; how he can help young men. Ptr Ink 133:25-6+ O 15 '25
Taking your personal inventory; an analysis of a salesman's errors. M. G. Weaver. Am Gas J 121:1309+ D 27 '24; Same. Gas Age 54:912 D 27 '24
Watch for the salesman who gets things done. Ptr Ink 132:49-50+ Ag 6 '25
Way to get salesmen to classify themselves. R. Davis. Ptr Ink 126:97-8 Ja 3 '24
What a salesman should know about his health. W: S: Sadler. 125p Dartnell corp., Chicago, New York '23
What becomes of the elder salesman? C: G. Muller. Ptr Ink 128:115-16+ S 11 '24
What is the older man's place on the sales force? F. L. Scott. Ptr Ink 127:33-4+ Je 19 '24
What we do with salesmen who have gone as far as they can go. F. H. Dickinson. Sales Management 6:417+ Ja '24

SALESMEN—*Continued*

When is a man fitted for corporation work? C. F. Wade. Ptr Ink 126:53-4 Ja 10 '24

See also Advertising, Soliciting of; Advertising and salesmen; Gas companies—Salesmen; Insurance, Casualty—Agents; Insurance, Fire—Agents; Insurance, Life—Agents; Insurance agents; Peddlers and peddling; Printing trade—Salesmen; Sales contests; Sales conventions; Sales quotas; Sales territories; Salesmanship

Advance cards and letters

Introducing the new salesman to the old trade. D. Argyle. Ptr Ink M 8:23 Ap '24

Keeping memory green between salesmen's visits. Ptr Ink 127:64+ My 8 '24

Novelty and selling facts in salesmen's advance cards. H. E. Pettingill. il Ptr Ink M 9:60 N '24

Paving the way for the salesman. G. A. Nichols. Ptr Ink 129:126+ D 25 '24

Trade copy that serves as salesmen's advance cards, E. B. Weiss. Ptr Ink 129:79-80+ N 13 '24

What 150 Parke, Davis salesmen want in advance cards. F. G. Ebner. Ptr Ink M 9:59 D '24

Bonuses

I need this order to fill my book. E. J. Heimer. System 46:570 N '24

Open letter to Thomas Hobbes, esq. P. S. Salisbury. Sales Management 6:521-2 F '24

Prime reason for a salesman's bonus. Ptr Ink M 10:78+ Ap '25

This bonus plan prevents salesmen from playing favorites. R. McDaniel. Sales Management 9:151+ Ag 8 '25

Expenses

Adopts uniform allowance for salesmen's hotel expenses. Sales Management 9:90 Jl 25 '25

Greater value from salesmen's automobile expense. J. J. Witherspoon. Ptr Ink 126:61-2+ Ja 10 '24

Operating expenses of salesmen's cars. Am Mach 60:478 Mr 27 '24

Passenger car as a selling aid. System 45: 34-6+ Ja '24

Perhaps he plays mah-jong. Ptr Ink 126:82+ F 21 '24

Salesmen's expenses in 1925—lower or higher? J. J. Witherspoon. Ptr Ink M 10:23-4+ Ja '25

Taking the guesswork out of business. W: R. Basset. Forbes 14:160-1+ My 10 '24

This plan gets salesmen to hold down expenses. Ptr Ink 131:36 Je 25 '25

Using the passenger car to beat competition. W. F. Wyman. System 45:366+ Mr '24

What to allow for salesmen's expenses. Ptr Ink 131:3-4+ Ap 16 '25

When the salesman is in the hole on his expense account. C. M. Harrison. Ptr Ink 132:57-8+ Jl 23 '25

When you write salesmen about expense accounts. L. E. De Groat. Ptr Ink M 10:64+ Mr '25

Where the salesman's car pays dividends. il map System 45:187-8+ F '24

Gifts to buyers

Too much Santa Claus; when salesmen send out Yuletide gifts. E. B. Weiss. Ptr Ink 132:138+ S 3 '25

Mail

Salesman who stays over for his mail. W. G. Caldwell. Sales Management 7:1789-90 N '24

Rating

Convention stunt to show salesmen how Libby managers are selected. Sales Management 6:517-18 F '24

How shall we keep the salesmen posted? R. Dickinson. Ptr Ink 132:3-4+ S 3 '25

Is the sales manager's opinion of that new salesman worth anything? O. R. Johnson. Ptr Ink 128:25-6+ Ag 28 '24

Routing

Company that teaches salesmen to route themselves; Toledo scale co. T: F. Walsh. Ptr Ink M 11:29-30+ O '25

Giving salesmen 10 per cent more time with prospects. J. A. Worsham. Ptr Ink M 9:44+ Ag '24

How Stewart-Warner found 25,000 new sales outlets. Sales Management 9:573+ O 31 '25

Rearranging salesmen's routes in Detroit doubles sales. Sales Management 6:533+ F '24

Should the salesman be his own sales manager? D. Gridley. Ptr Ink M 9:39-40+ O '24

Salaries and commissions

Analysis of all plans that have been used in paying salesmen. C. K. Woodbridge. Ptr Ink 127:113-16 Ap 24; 141-2+ My 1 '24

Basis of compensation for industrial gas engineers. J. P. Leinroth. Am Gas Assn Industrial Gas sec v 6:669-74 '24; Same. Gas Age 54:527-9 O 11 '24; Same. Am Gas J 121:1197+ N 22 '24; Discussion. Am Gas Assn Industrial Gas sec v 6:674-82 '24

Compensation and its incentive to greater sales effort. T: F. Kennedy. Am Gas Assn Commercial sec v 6:577-83 '24

Five sales managers tell how they deal with commission wrangles. Sales Management 9: 85-6 Jl 25 '25

Getting the right incentives into the sales compensation plan. Ptr Ink 128:36 Ag 28 '24

How shall we pay our salesmen? System 47: 601-5 My '25

How shall we pay salesmen to get them to work harder? G. A. Nichols. Ptr Ink M 9: 19-20+ Ag '24

How to compensate salesmen in seasonal lines. J. A. Worsham. Ptr Ink M 10:45-6 Je '25

How to compensate salesmen in the industrial field. N. C. Tompkins. Ptr Ink 130:140+ Ja 1 '25

How to get salesmen to push the biggest profit items. G: B. Evans. Ptr Ink 129:3-4+ D 25 '24

How to keep salaried salesmen steadily on the job. G. A. Nichols. Ptr Ink 128:25-6+ Jl 24 '24

How to make 'em like the straight-commission plan. C. C. Casey. Ptr Ink 128:3-4+ Ag 14 '24

How we devised a compensation plan that cut down turnover. G. C. Willings. Sales Management 9:77-8+ Jl 25 '25

Is it right for a jobber to pay a bonus on long-profit lines? L. W. Giellerup. Sales Management 7:1865-6 D '24

Keeping salesmen from vacationing when they earn a big commission. Ptr Ink 128:109-10 S 25 '24

Methods of compensation. Gas Age 55:587-8+ Ap 18 '25

National grocer plan for pushing the most profitable lines. D. G. Baird. Sales Management 7:1619+ O '24

Our new compensation plan solves the neglected item problem. H. T. Bussman. Sales Management 9:349-50 S 19 '25

Overpaid salesman. A. H. Deute. Ptr Ink 131:17-20 My 14 '25

Pay salesmen as collectors. A. A. Grainger. Credit M 27:34 Ja '25

Problem of differences in salesmen's salaries. J. Calvin. Ptr Ink M 11:33+ S '25

Problem of the overpaid salesman. A. H. Deute. Ptr Ink 129:49-50+ O 23 '24

"Render unto Caesar the things that are Caesar's". T: F. Kennedy. il Gas Age 54: 615-16+ O 25 '24; Excerpts. Am Gas J 121: 1131+ N 1 '24

Report of N.W.D.A. committee on salesmen and selling methods. Oil Paint & Drug Rep 106:33-4+ O 1 '24

Sales manager—slave or slave-master? G: M. Meyncke. Ptr Ink 128:169-70 S 18 '24

Salesmen's commissions adjusted to favor company products. R: Warren. Ptr Ink M 9: 37-8 D '24

SALESMEN—Salaries and commissions—*Cont.*
Should salesmen receive full credit on mail orders? Sales Management 9:109-10 Jl 25 '25
Should salesmen take all the risk? Ptr Ink 128:125-6 Ag 28 '24
Some weaknesses of commission plan of paying salesmen. Ptr Ink 132:155 Ag 20 '25
When a salesman does more than just hold his job. Ptr Ink 129:144 O 9 '24
When salesmen arbitrarily demand increases in salaries. A. Jameson. Ptr Ink 127:17-19 My 1 '24
When salesmen squabble about who gets the commission. Ptr Ink 129:119-20 O 23 '24
When you ask the salesman to pay back unearned drawing accounts. Sales Management 6:784 Ap '24
Why I don't believe in the straight commission system. W: L. Fletcher. Sales Management 6:974 My '24
Will a free-handed drawing account policy attract better salesmen? Sales Management 6:1159-60 Je '24

See also Salesmen—Bonuses

Selection

Back-fire of quick firing. B. Avery. Ptr Ink M 11:31+ Ag '25
"Before you accept me as your boss." A. H. Deute. Ptr Ink 130:10+ F 12 '25
Business fakirs. D: H. Colcord. Sales Management 6:777-8+, 1091-2; 7:1363-4 Ap, Je, Ag '24
Developments in scientific methods for selecting salesmen. H. G. Kenagy. Sales Management 7:1453-4+, 1645-6+, 1751-4 S-N '24
Eureka plan for recruiting and training commission salesmen. H. U. Mann. Sales Management 9:277-8 S 5 '25
Finding signs of successful employees. D. A. Laird. Ind Management 69:372-9 Je '25
Getting the salesman to look up his prospective boss. H. E. Pettingill. Ptr Ink 130: 25-6+ Mr 19 '25
How one firm picks its go-getters. W. Russell. Nation's Business 12:31-3 S '24
How Proctor & Gamble decrease salesman turnover; careful selection. Ptr Ink 125:38+ N 22 '23
How the National cash register company selects salesmen. F. B. Patterson. Ptr Ink M 11:21-2+ Ag '25
How to tell whether a new salesman will fail or succeed. W. Russell. Ptr Ink M 10:31-2+ Ja '25
Is the salesman over forty a "has been?" A. H. Deute. Ptr Ink 132:41-2+ Ag 27 '25
Kardex plan for recruiting and training new salesmen. Sales Management 8:156 Ja 24 '25
More horse sense needed in hiring salesmen. A. Bradbury. Ptr Ink 130:125-6+ Mr 12 '25
Our plan for hiring. F. H. Dickison. System 46:713+ D '24
Picking sure-fire salesmen by the Phoenix plan. G: Mansfield. Forbes 14:606-7 Ag 15 '24
Professional salesman who can sell anything. J. Calvin. Ptr Ink 133:25-6+ O 8 '25
Recruiting and training a national sales force in ninety days. H. E. Steiner. Sales Management 6:1075-6 Je '24
Selecting the new type of salesman. G. V. Cope. Spectator 114:31+ F 19 '25
Selecting the salesmen for your British campaign. S. F. Talbot. Sales Management 6: 1041 pt 2 My '24
Selection and training of salesmen. H. G. Kenagy and C. S. Yoakum. 380p McGraw-Hill '25
To get the right man for the job. W. F. Wyman. System 45:494+ Ap '24
We get better salesmen with fewer interviews. C. C. Casey. Ptr Ink 129:3-4+ N 27 '24
What kind of advertisements pull good salesmen? B. F. Berfield. Ptr Ink M 8:34-6 F '24
What should a company ask the prospective salesman? L. A. Cerf. Ptr Ink M 8:59-60+ F '24
What sort of intelligence does a salesman need? H. S. McCauley. Sales Management 8:19-20 Ja 10 '25
When I'm on the fence about hiring a salesman. G: W. Hopkins. Sales Management 6:375 Ja '24
Why I am against hiring salesmen away from competitors. A. W. Fischer. Sales Management 6:635-6+ Mr '24
Yanking stars from the competitor's firmament. Sales Management 7:1579-80+ O '24

Training

Borden system of building a sales force. A. H. Deute. Ptr Ink 126:17-20 Ja 24 '24
Dramatizing sales instruction. W: Maxwell; M. H. Karker. il System 47:172-5+ F '25
Educating salesmen and keeping them educated. J. True. Ptr Ink M 11:37-8+ Jl '25
Education of textile salesmen. Textile Inst J 16:P305-11 O '25
Empire refineries training salesmen with exhaustive courses. J. C. Chatfield. Nat Pet N 16:72+ Mr 12 '24
Facts vs. soul stuff for salesmen. A. Belden. Ptr Ink 127:69-70+ My 22 '24
Getting the new salesman off on the right foot. J. J. Witherspoon. Ptr Ink M 10:19-20+ Mr '25
Give your salesmen some back-curtain details. W. H. Heath. Ptr Ink 129:99-100+ D 25 '24
How about training salesmen? Management & Adm 9:269-70 Mr '25
Increases sales per man 50 per cent in less than a year. R. R. Clevenger. il Sales Management 7:1394+ Ag '24
Is mum the word between your senior and junior salesmen? B. J. Williams. Ptr Ink 129:25-6+ N 13 '24
Keeping the new salesman from slipping. C. B. Larrabee. Ptr Ink M 8:23-4+ Ja '24
Lack of training blamed for failure of salesmen. J. V. E. Westfall. Sales Management 6:431-2 Ja '24
Long-distance training course for 300 salesmen; the Foamite-Childs corporation conducts a correspondence course. E. B. Weiss. Ptr Ink M 8:46+ Mr '24
Preparing the cub salesman to handle the tough prospects. S. C. Lambert. Ptr Ink 125:25-7 N 15 '23
Salesman's first five weeks are the hardest. E. B. Weiss. Ptr Ink 126:141-2+ Mr 13 '24
Schedule to follow in training salesmen. Iron Age 116:959 O 8 '25; Same. Iron Tr R 77:1153 N 5 '25; Same. Brick & Clay Rec 67:870 D 8 '25
Successful method of selecting and developing salesmen. C. C. Henshaw and R. S. Richey. Ptr Ink 126:129-30+ Ja 17 '24
Teaching salesmen to capitalize the prospect's objections. E. H. Shanks. il Sales Management 9:217-18+ Ag 22 '25
This home-office training guards salesmen from blues. W. H. Heath. Ptr Ink 130: 170+ F 12 '25
Throw 'em-in vs. water wings in managing new salesmen. C. B. Larrabee. Ptr Ink 127: 169-70+ Je 12 '24
Training machinery salesmen. W. W. Charters. Iron Tr R 76:1186-7 My 7 '25
Training the new salesman before he starts on the road. R. Leigh. Ptr Ink M 11:39+ Ag '25
Training the young salesman. R. Crothers. Ptr Ink 125:93-4+ N 22 '23
Turning novices into salesmen. J. J. Witherspoon. Ptr Ink M 8:19-20+ My '24
Using the strong salesmen to help the tail enders. C. E. Sommer. Sales Management 6:776+ Ap '24
What shall we teach our salesmen? Ptr Ink 133:86 O 15 '25
What to tell a new salesman about his territory. L. E. De Groat. Ptr Ink M 9:146+ N '24
Why we discontinued our general sales convention. O. E. Moe. Sales Management 9: 159-60 Ag 8 '25

See also Sales conventions; Sales manuals; Salesmen's catalogs

SALESMEN—*Continued*

Vacations

Shall salesmen be given vacations? Ptr Ink 132:20 Jl 16 '25

SALESMEN, Jobbers'

Ever-new problem of jobbers' salesmen. L. A. Safford. Ptr Ink 130:17-20 Mr 26 '25

Getting jobbers' salesmen to work with you. Ptr Ink 127:61-2+ My 1 '24

How one manufacturer is getting his message to jobbers' salesmen. J. True. Ptr Ink 132: 113-16 Jl 23 '25

How to get salesmen to push the biggest profit items. G: B. Evans. Ptr Ink 129:3-4+ D 25 '24

How we persuaded jobber salesmen to demonstrate our line. K. G. Merrill. Ptr Ink M 9:32+ D '24

How we won the co-operation of the jobbers' salesmen. K. G. Merrill. Ptr Ink M 8:70+ Ja '24

Jobber salesmen's obligation to the contractor and vice versa. H. A. Call. Sanitary & Heat Eng 103:360-1 My 29 '25

National Grocer plan for pushing the most profitable lines. D. G. Baird. Sales Management 7:1619+ O '24; Discussion. L. W. Giellerup. 7:1865-6 D '24

Pithy paragraphs from a wholesaler to manufacturers. R. Tenk. Ptr Ink 131:53-4+ My 28 '25

Sales manager writes form letters that sell; keep wholesale drug salesmen boosting Owens bottles. T. Mitchell. Ptr Ink M 11: 42+ Ag '25

Sampling jobbers' salesmen to get their co-operation. Ptr Ink M 11:98 N '25

759 jobber salesmen attend manufacturers' sales convention; Western company has jobber co-operation. C. B. Larrabee. Ptr Ink 128:109-10+ Ag 7 '24

Shooting at the industrial sale from many angles. Ptr Ink 132:102+ S 10 '25

When manufacturers' and jobbers' salesmen travel together. J: M. Schlachter. Ptr Ink M 9:46+ O '24

When the jobbers' salesmen are the neck of the sales bottle; Ekco guaranteed strapping. P. Chapman. il Sales Management 8: 797-8+ My 30 '25

When the jobbers' salesmen make or break a campaign. Sales Management 7:1869+ D '24

Where can list of jobbers' salesmen be obtained? Sales Management 7:1304 Jl '24

Bonuses (manufacturers')

Why I won't permit manufacturers to work with my salesmen. Ptr Ink 132:17-20 S 24 '25

SALESMEN, Retail

Developing the right type of retail automotive salesman. N. G. Shidle. Automotive Ind 52: 782-4 Ap 30 '25

Does the retail salesman know our goods? R. Leigh. Ptr Ink M 8:31-2+ Mr '24

From desire to action. H. Whitehead. Am Exporter 95:15-17 Ag '24

Giving the retailer a paddle. H. R. Barnett. Ptr Ink 130:177-8+ Mr 12 '25

How advertisers win clerk co-operation. M. Droke. Ptr Ink M 10:98+ Ap '25

How to tell your story to the retail salesman. R. Leigh. Ptr Ink 128:117-18+ Jl 24 '24

Human side of retail selling. R. Leigh. 228p International textbook co., Scranton, Pa. '24

I get my customers to sell themselves. B. B. Knell. System 48:567-9+ N '25

Increasing the sale. H. Whitehead. il Am Exporter 95:14-15+ S '24

Merchandise manuals for retail salespeople [pub. for various trades]. W. W. Charters, ed. Shaw '25

Mrs. B. goes shopping—. il System 48:168-9 Ag '25

Planning direct advertising matter aimed at dealers' salesmen. R. E. Ramsay. Inland Ptr 72:445-8 D '23

Power of pre-approach in salesmanship. H. Whitehead. Am Exporter 94:19-22+ Mr '24

Retail salesman's creed in Westinghouse booklet. J Elec 52:23 Ja 1 '24

Retailer invites manufacturers to tell his clerks about their goods. W. Bates. Ptr Ink 128:49-50 Ag 7 '24

Rounding up the top dollars. C. C. Casey. Ptr Ink M 9:128+ D '24

Sell our salespeople! J. V. Paxton. Ptr Ink M 11:19-20+ Ag '25

Waking up the small town retailer. A. W. Rucker. Sales Management 8:327-8 F 21 '25

What the retail clerk can tell the copy writer. R. Branner. Ptr Ink 128:69-70+ Jl 3 '24

See also Salesmanship, Retail; Saleswomen; *also* Butte clerk's union

Bonuses (manufacturers')

Four million sales in thirty days; drive for co-operation of dealers and clerks multiplies sales of Dr West's tooth brushes. E. Whitmore. Sales Management 6:393-4+ Ja '24

Right of the manufacturer to pay the dealers' salesmen. Ptr Ink 125:129-30+ D 20 '23

Rating

Labor as a factor in selling; volume of sales per sales person. P. D. Converse. il Sales Management 6:647-8 Mr '24

Training

Broadening the market by educating the dealer's salesmen. T. McDonald. Ptr Ink M 11:60+ S '25

Brunswick holds sales conference for retailer's salesmen. Sales Management 7:1609-10 O '24

Don't permit clerks to douse cold water on sales. H. Johnston. Ptr Ink 133:65-6+ O 8 '25

Educating retail automobile salesmen. R. Schrenkeisen. Automotive Ind 53:583-4 O 1 '25

Education of a retail sales force. U S Bur For & Dom Com Trade Information Bul 303:1-13 '25

Methods of training employees in stores of moderate size. (Bul. no. 5) 19p Illinois. University. Bur. of business research, Urbana '24

More sales for manufacturers through retailers' schools. H. Blauvelt. Ptr Ink M 9: 138+ D '24

Retail salesmen are eager to take this instruction course. Ptr Ink 129:79-80 O 30 '24

SALESMEN and advertising. See Advertising and salesmen

SALESMEN as collectors

Pay salesmen as collectors. A. A. Grainger. Credit M 27:34 Ja '25

Selling terms and goods. D. F. Rock and others. Credit M 7:18-19 Je '25

We tightened our collections—yet increased sales 50%. C: L. Davies. System 47:752-5+ Je '25

SALESMEN'S automobiles. See Automobiles, Salesmen's

SALESMEN'S bulletin boards. See Bulletin boards, Salesmen's

SALESMEN'S bulletins

Daily broadcast that takes the place of letters to salesmen. C: G. Muller. Ptr Ink M 10:40 Ap '25

Is the sales force bulletinized to death? R. Dickinson. Ptr Ink 132:117-20+ Ag 20 '25

What kind of a bulletin will salesmen really read? E. Whitmore. Sales Management 7: 1729-30 N '24

Where to get ideas to pass on to your salesmen. Ptr Ink 132:161-2 S 17 '25

SALESMEN'S catalogs

Salesmen's catalogues that save years of technical training. G. A. Nichols. Ptr Ink 128:138+ Ag 28 '24

SALESMEN'S equipment

Simplifying the salesman's physical equipment. Ptr Ink 131:126+ Je 11 '25

SALESMEN'S house organs
Editorial formula of a successful company sales publication. H. E. Pettingill. Ptr Ink M 11:68+ O '25
Salesmen's house-organs that really help salesmen sell. B. Avery. Ptr Ink M 11:41-2+ S '25
What shall we put in our salesmen's publication? Sales Management 8:807-8 My 30 '25

SALESMEN'S manuals. See Sales manuals

SALESMEN'S reports
Daily report cards that keep home office in close touch with salesmen on the road. Ptr Ink 125:64+ D 27 '23
Finding the sick spots in a sales territory. R. Cole. Ptr Ink M 11:37-8+ S '25
How to get men to make accurate reports; what information reports should contain. J: A. Murphy. Ptr Ink M 7:19-20+ D '23
Squeezing secrets from salesmen's letters to headquarters. W. R. Heath. Ptr Ink 131: 125-6+ My 7 '25
Way to check-up on calls that salesmen miss. N. C. Tompkins. Ptr Ink 127:105-6+ Ap 17 '24
When the sales force gets a bad case of wanderlust. maps Sales Management 6:1079-80 Je '24

SALESWOMEN
Should women sell plumbing goods. M. L. Harms. Dom Eng 106:95-6 Ja 5 '24

SALICYLATOCOBALT diethylenediammines
Researches on residual affinity and coordination; optically active salicylatocobalt diethylenediammines. G. T. Morgan and J. D. M. Smith. Chem Soc J 125:1996-2004 O '24

SALICYLIC acid
Condensed ternary system phenol-water-salicylic acid. C: R. Bailey. Chem Soc J 127: 1951-65 S '25
Ionisation of two electrolytes in alcohol—water mixtures; influence of environment on ionisation. F. Bradley and W. C. M. Lewis. J Phys Chem 29:782-91 Jl '25

SALICYLIC aldehyde
Electrolytic preparation of salicylic aldehyde from salicylic acid. K. S. Tesh and A. Lowy. Am Electrochem Soc Trans v 45 (preprint 24):325-33 Ap '24

See also Dibromo-salicylaldehyde

SALMON
Chemical study of canned salmon. O. E. Shostrom, R. W. Clough and E. D. Clark. Ind & Eng Chem 16:283-9; Bibliography. 289 Mr '24
Mechanical features of salmon canning. M. L. Dodge. Mech Eng 47:612-13 Ag '25
World trade in canned salmon. R. L. Purdon. charts map U S Bur For & Dom Com Trade Promotion Ser 14:1-48 '25

SALMON oil
Deodorizing salmon oil. H. K. Benson. Chem & Met Eng 31:627 O 20 '24

SALT
Activities of strong electrolytes; a revision of the activity coefficients of potassium, sodium, and lithium chlorides, and potassium hydroxide. G: Scatchard. Am Chem Soc J 47:648-61 Mr '25
Activity coefficient and ionic concentration product of water in sodium and potassium chloride solutions. H. S. Harned. Am Chem Soc J 47:930-40 Ap '25
Activity coefficient of sodium hydroxide in sodium chloride solutions. H. S. Harned. Am Chem Soc J 47:684-9 Mr '25
Common salt in the dyehouse. Color Tr J 16:50-1 F '25
Density of rock salt calcite. O. K. DeFoe and A. H. Compton. Phys R 25:618-20 My '25
Effect of salt on track heaving. Eng & Contr (Ry) 63:568 Mr 18 '25
Effect of sodium chloride on hydrogen-ion concentration and stability towards alkali of chromic chlorides. K. H. Gustavson. Ind & Eng Chem 17:945-52 S '25
Electrical conductivity of sodium chloride in molten glass. W. J. Sutton and A. Silverman. il diags Am Cer Soc J 7:86-101; Bibliography. 102-4 F '24
Grating space of calcite and rock salt. A. H. Compton, H. N. Beets and O. K. DeFoe. bibliog Phys R 25:625-9 My '25
Influence of temperature on the intensity of reflexion of X-rays from rocksalt. R. W. James. Philos Mag 6th ser 49:585-602 Mr '25
Intensity of the X-rays scattered from rocksalt. G. E. M. Jauncey and H. L. May. diag Phys R 23:128-36 F '24
Interaction of sodium chloride and alumina. F. H. Clews. Chem Soc J 127:735-9 Mr '25
Is salt a preservative? W: W. Browne. Chem Age 32:317-18 Jl '24
Mineral industry of the British Empire and foreign countries; statistics, 1919-1921. 36p Gt. Brit. Imperial mineral resources bur., London '24
Moving-boundary method for determining transference numbers; the transference numbers of some chloride solutions. E. R. Smith and D. A. MacInnes. diag Am Chem Soc J 47:1009-15 Ap '25
Production of salt in the United States in 1924. Econ W n s 30:160 Ag 1 '25
Reciprocal salt-pair $Na_2Cr_2O_7+2KCl \rightleftharpoons K_2Cr_2O_7+2NaCl$. J: B. Robertson. Soc Chem Ind J 43:334-8 N 21 '24
Rock salt. Chemicals 24:6 Ag 17 '25
Salt. W: R. McKennon. Textile Col 45:778-81 D '23
Salt producers' activities. Chem & Met Eng 32:111-12 Ja 19 '25
Stray earth currents increased by salt. C: F. Meyerherm. il diag Elec Ry J 65:881-3 Je 6 '25
Structure of films of water on salt solutions; surface tension and adsorption for aqueous solutions of sodium chloride. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:2083-9 Ag '25
Transference numbers of sodium and potassium chlorides and of their mixtures. J. Dewey. Am Chem Soc J 47:1927-32 Jl '25
Transference numbers of solutions of mixed chlorides; discussion of papers by Schneider and Braley and by Braley and Hall. D. A. MacInnes. Am Chem Soc J 47:1922-7 Jl '25
Why not make our metallic sodium from common salt? H. Danneel. diags Chem & Met Eng 32:244-7 F 9 '25
Why not salt mine roadways? Coal Age 27: 372 Mr 5 '25

See also Salt mines and mining

Advertising
Making a slow-moving staple hustle; Morton salt company finds new markets. D. Hubbard. Ptr Ink 129:156+ D 11 '24

Manufacture
Canadian salt company's processes for the manufacture of alkali-chlorine products. D. A. Pritchard and G. E. Gollop. flow sheet il diag Ind & Eng Chem 16:1056-62 O '24; Same. Can Chem & Met 8:211-14 S '24
Cutting costs with the rotary filter. W. D. Mount. il Chem & Met Eng 29:963-4 N 26 '23
La fabrication du sel marin aux marais salants du midi de la France. A. Lambert. Chimie & Ind 10:1007-12 D '23
Purification of salt made from Central New York brines. R. O. McDuffie and H. Diederichs. il Sibley J 37:148-54, 185-93 O-N '23
Salt from sea water. A. W. Allen. il Chem & Met Eng 29:1131-5 D 24 '23

SALT cake. See Sodium sulfate

SALT CREEK producers association, incorporated
Annual report for year ended Dec. 31, 1924. Comm & Fin Chr 120:2168 Ap 25 '25

SALT domes
Gulf coast saline domes. R: B. Thacker. diags Pet Age 13:20+ Ap 1 '24
Salt domes discovered by artificial earthquakes. Eng & Min J 119:20 Ja 3 '25

See also Petroleum—Geology

SALT LAKE & Utah railroad
Receivers appointed for Salt Lake & Utah railroad. Elec Ry J 66:182 Ag 1 '25

SALT LAKE CITY, Utah
Architecture
Some early domestic architecture in and near Salt Lake City, Utah. G. Y. Cannon. il Am Arch 125:473-6 My 21 '24

SALT mines and mining
Model salt-mining plant at Retsof, N.Y. A. B. Parsons. flow sheet il diags plans Eng & Min J 117:997-1005 Je 21 '24; Abstract. Génie Civil 85:272-4 S 27 '24
Novel salt mining scheme from Russia. J. W. Scherrer. diag Eng & Min J 119:842 My 23 '25
Working the Kansas salt deposits. C. A. Lovell. il plan Chem & Met Eng 30:426-9 Mr 17 '24

SALT union, limited
Salt union, limited; year's work. Economist 100:613-14 Mr 28 '25

SALTCAKE. See Sodium sulfate

SALTPETER. See Potassium nitrate

SALTPETER, Chile. See Sodium nitrate

SALTS
Conquering natural brines for commerce. C. T. Bragg and W. P. Putnam. Chem & Met Eng 31:468-9 S 22 '24
Heating steel by the salt bath method. il diags Iron Tr R 77:1148-9+ N 5 '25
Salt baths for steel treating. S. Tour. diag Am Mach 61:525-9 O 2 '24
Secondary kinetic salt effect in the case of hydroxyl-ion catalysis. J. N. Brönsted and C. V. King. diag Am Chem Soc J 47:2523-31 O '25
Studies of sparingly soluble salts, readily obtained from hot solutions of reacting substances. K. P. Chatterjee and N. R. Dhar. J Phys Chem 28:1009-28 O '24
Systems of acids, bases and salts. E: C. Franklin. Am Chem Soc J 46:2137-51 O '24

See also Chlorides; Crystallization; Halides; Nitrates; Phosphates; Precipitation (chemistry); Salt; Sulfates

SALTS, Complex
Complex salts. W: Thomas. 122p Van Nostrand '24
Method of determining the presence or absence of complex salts or ions in dilute aqueous solution. W: H. Patterson and J: Duckett. Chem Soc J 127:624-8 Mr '25

SALTS, Double
Studies of equilibrium in systems of the type $Al_2(SO_4)_3$—M″ SO_4—H_2O; aluminium sulphate—copper sulphate—water and aluminium sulphate—manganous sulphate—water at 30°. R. M. Caven and T: C: Mitchell. Chem Soc J 127:527-31 Mr '25

SALTS, Quaternary
Formation of quaternary ammonium salts. E: de B. Barnett, J. W. Cook and W: C: Peck. Chem Soc J 125:1035-40 My '24

SALTS, Triple
Cesium-cupric-mercuric triple chloride, $Cs_2CuHgCl_6$; the failure to prepare Cs-Cu-Cd or Cs-Cu-Zn chlorides; and the varying complexity of certain triple salts. H. L. Wells. Am J Sci 5th ser 6:521-5 D '23

SALVAGE
Last harbor of forgotten ships. il Sci Am 129: 393 D '23
Launching a new bow for a salved steamship. il diags Engineering 116:580-2, 594 N 9 '23
Le renflouement de l'épave du cuirassé Liberté en rade de Toulon. H. Faure. il diags plans Génie Civil 86:249-55, pl 2 Mr 14 '25; Abstract (Salving the French battleship Liberté). Engineer 139:487 My 1 '25
Le renflouement des navires coulés par le système Reno. il diags Génie Civil 84:36-9 Ja 12 '24
Reno marine salvage system. il (supp) diags Engineer 136:471-3, 478 N 2 '23
Salvage of a floating dock. il diags Engineering 119:61-2, 76 Ja 16 '25
Salvage of the German fleet at Scapa flow. il Engineering 118:233-6 Ag 15 '24
Scapa flow salvage operations. il plan Engineer 140:248-9 S 4 '25
Thirteen German destroyers salvaged. il Iron Age 116:470-1 Ag 20 '25
Wonders of salvage. D: Masters. 229p Dodd '24

SALVAGE (fires)
Salvage work a public benefit. il Safety Eng 48:207-13 N '24

SALVAGE (waste, etc.)
$15,000,000 salvaged by Ford plants. G: E. Hagemann. il Management & Adm 9:557-60; 10:33-6 Je-Jl '25
Great saving possible by salvaging junk on leases. Nat Pet N 17:41 F 18 '25
Making salvage work do double duty. R: C. Daniels. il Factory 35:214-16+ Ag '25
Practical material salvaging methods. C. B. Auel. il Management & Adm 8:185-90 Ag '24
Reclaimed pipe saves money in oil fields. D. W. Moore. il Iron Tr R 77:306-7 Ag 6 '25
Reclaiming scrapped grinding wheels. F. W. Brown. il Iron Tr R 75:1499-1500 D 4 '24
Salvage control by the inspection department. A. H. Frauenthal. Am Mach 61:912 D 11 '24
Salvage of used material profitable; but first buy a welding outfit. A. F. Hinton. il Nat Pet N 17:43-4 Ap 29 '25
Salvaging inspection rejects. P. H. Bryant. Mach 31:428-9 F '25

See also Oil reclamation; Railroads—Scrap material; Refuse, Utilization of; Sand, Foundry—Reclamation; Scrap metal; Waste products

SALVAGE association, United States. See United States salvage association

SALVAGE ships
Powerful motor salvage vessel built in Germany; Sulzers build largest two cycle Diesel engine. il Marine Eng 30:158-9 Mr '25
Powerful salvage tug built on the Clyde for Canada. il plan Marine Eng 30:271-2 My '25

SALVARSAN
Chemotherapy of organo-arsenic compounds; salvarsan. G. M. Dyson. Chem Age (Lond) 13:85-7 Jl 25 '25
Manufacture of salvarsan and its derivatives. W. W. Myddleton. diag Chem Age (Lond) 12:576-9 Je 13 '25
Sulfur content of arsphenamine and its relation to the mode of synthesis and the toxicity. W. G. Christiansen, A. J. Norton and J. B. Shohan. Am Chem Soc J 47:2712-24 N '25

See also Silver salvarsan

SAMPLER boxes. See Package goods

SAMPLES (merchandizing)
Adding sales value to the sample package. W. Bates. il Ptr Ink M 11:40-1+ Ag '25
Adventures in sampling. J. H. Collins. Ptr Ink 129:3-4+ N 13 '24
Advertising plan that revolves around a sampling campaign. il Sales Management 8:599+ Ap 18 '25
Getting most from salesmen's sample cases. Ptr Ink M 8:86 Ap '24
Hole-in-one golfer as a sampling outlet. A. E. Haase. Ptr Ink M 11:25-6+ N '25
How sampling is effectively used by E. R. Squibb & sons. T. Weicker. Ptr Ink 129: 127-8+ D 11 '24
Individual sample boxes concentrate prospect's attention. E. Falkner. Ptr Ink M 8: 46 Ap '24
Injecting a personality into selling by mail; Rust craft publishers' greeting cards. E. D. Chase. il Ptr Ink M 8:60+ Je '24
Sample boards speed our sales—save our space. W. J. Stebbins. il System 46:277+ S '24
Sample kit that stimulates the jobber's salesman. H. M. Dana. Ptr Ink M 9:100+ Jl '24
Sampling a line of hard-to-sample products. il Ptr Ink M 10:51 Je '25

SAMPLES (merchandizing)—*Continued*
Sampling from the inside. J. H. Collins. Ptr Ink 129:61-2+ D 25 '24
Sampling jobbers' salesmen to get their co-operation. Ptr Ink M 11:98 N '25
Sampling—shall it be selling or philanthropy? C. B. Larrabee. il Ptr Ink M 11:23-5 S '25
Speed up sample orders and keep their goodwill. A. C. Kleberg. Ptr Ink M 10:90+ Ja '25
Stepping stones to wider distribution. Sales Management 6:1112+ Je '24
Those samples you send to retailers. A. H. Van Voris. Ptr Ink 132:157-8+ Jl 2 '25
Using the sample kit to supplement the work of the salesmen. il Ptr Ink 10:138+ My '25
What cost—sampling? J. H. Collins. Ptr Ink 130:101-2+ Ja 8 '25
What do you charge for samples? W. F. Thomas. Ptr Ink M 10:60+ Ja '25
Why hotel check rooms are jammed with sample cases. W. G. Caldwell. il Sales Management 7:1467-8 S '24

See also Models, Miniature

Advertising

Newspaper advertising sets the stage for the sample. Ptr Ink 128:114-16 Ag 14 '24

SAMPLES, Shipment of
Shipment of samples and advertising matter to Latin America and the West Indies. R. P. Wakefield. U S Bur For & Dom Com Trade Information Bul 250:1-54 '24

SAMPLING
Methods of sampling for material inspection. H. M. Phillips. Ry Mech Eng 98:276-8 My '24

See also Coal sampling; Gas sampling; Oil sampling; Ore sampling; Silage—Sampling

SAN ANTONIO, Texas

Architecture

Earliest mission buildings of San Antonio, Texas. A. B. Ayres. il Am Arch 126:173-8 Ag 27 '24
Old Spanish missions in and about San Antonio. F. S. Laurence. il Am Arch 124:445-50 N 21 '23

Rapid transit

Buses build good will and save money. il Bus Transportation 3:61-2 F '24
Predicting traffic requirements in San Antonio. W: R. Castle, jr. Elec Ry J 66:121-4 Jl 25 '25

SANATORIUMS

See Tuberculosis, Hospitals and sanatoriums for

SAND
Device removes sand from gravel wells. C. K. Calvert. il Eng N 91:1064-5 D 27 '23
Effect of flowing water on the stability of sand. C. M. Daily. Eng N 94:649 Ap 16 '25
Experimental loading on granular material. D. E. Moran. il J Fr Inst 199:493-501 Ap '25
Fences and oil used to keep sand from drifting on tracks. il Eng N 92:414-15 Mr 6 '24
Filter sand for municipal water supply. W. M. Weigel. U S Bur Mines Rep of Invest 2622:1-6 Jl '24 (typew); Same. Eng & Contr (W W) 62:571-4 S 10 '24; Same. Can Eng 48:377-8 Ap 7 '25; Same abr. Pub Works 55:352-3 N '24
Mining and preparing sand and rock. A. W. Allen. il Eng & Min J 117:237-9 F 9 '24
Most sand and gravel used in building—paving second. Eng & Contr (Bldgs) 62:489 Ag 27 '24
Sand as a snow-removal possibility. A. O'Brien. Eng N 93:722 O 30 '24
Sand-bed studies at Montebello water filters, Baltimore. J: R. Baylis. il diags Eng N 92:516-22 Mr 27 '24; Discussion. 92:563-8, 1094-5 Ap 3, Je 26 '24
Sand dams built by hydraulic fill in northern New York. il diag map Eng N 94:180-3 Ja 29 '25
Sands and crushed rocks. A. B. Searle. 2v Oxford '23; Review. Engineering 117:183-4 F 8 '24
Selection of sand and gravel for concrete in the Pittsburgh district. C. M. Reppert and others. Eng Soc W Pa 40:56-92; Discussion. 93-102 Mr '24
Special sands. W. M. Weigell. U S Bur Mines Rep of Invest 2646:1-9 O '24 (typew)
Tests of sand pressure against walls. diags Eng N 93:804, 1048 N 13, D 25 '24

See also Concrete—Aggregate; Locomotives—Sand supply; Sand blast; Sand drying; Sand handling; Sand washers; Sanders; Silica

Grading

Classifying asphalt sands by graphical method. W. C. D. Haarman. Eng N 92:1090-1 Je 26 '24

Measurement

Making uniform concrete by inundating sand. R. L. Bertin. il diags Eng N 94:775-6 My 7 '25
Simple way to find sand bulking. Eng & Contr (Bldgs) 63:896 Ap 24 '25

Testing

Bulking of moist sands; effect of phenomenon on strength and yield of concrete. A. A. Levison. il diags Pub Roads 5:21-3 Jl '24
Colorimetric test for sands. Can Eng 45:474 N 6 '23
Effect of grading on sand strength ratios. C. E. Proudley. Pub Roads 6:90-1 Je '25; Same. Concrete 27:25-6 O '25
Fineness modulus for filter sand. R: G. Tyler. il Eng & Contr (W W) 64:827-32 O 14 '25
Municipal practice in testing sand and gravel proposed for use in concrete. F. W. Lyon. Eng Soc W Pa 40:88-92 Mr '24
Progress report of committee no. 18 on filter sand analysis; screens and sieves. Am Water Works Assn J 11:677-90 My '24
Progress report of committee no. 18, on filter sand testing and recording. Am Water Works Assn J 14:235-52 S '25
Test for determining the amount of shale in sand using a lead acetate solution. P. M. Hegdal. Pub Roads 6:116 Jl '25; Same. Eng & Contr (R & S) 64:1012 N 4 '25

See also Sand, Foundry—Testing

SAND, Bituminous. See Bituminous sand

SAND, Foundry
Albany molding sands of the Hudson Valley. C: M. Nevin. il N Y State Museum Bul 263: 1-81 '25
A.F.A. has two sand sessions at annual meeting. Foundry 52:837-8 N 1 '24
A.F.A. sessions on sand problems and foundry costs. Iron Age 116:1034-7 O 15 '25; Foundry 53:859 N 1 '25
Die beziehungen von korngrössen und kornformen zu der gasdurchlässigkeit von formsanden. E. Diepschlag and H. Pannek. Stahl & Eisen 45:649-53 Ap 30 '25
Chemical composition of the bonding substance in natural molding sands. Brass W 21:120 Ap '25
Choice and treatment of foundry sands. F. A. Livermore. Brass W 21:77-8 Mr '25
Extending uses of oil sand cores. F. C. Edwards. diags Foundry 53:651-3+ Ag 15 '25
Foundry sand. E. W. Smith. Brass W 20:323-4 S '24
Foundry sands and sand research. Iron Age 114:1053-5 O 23 '24; Iron Tr R 75:1100-1 O 23 '24
Handling sand to speed output. il diag plan Foundry 53:412-15 My 15 '25
Heating molding sands. J. L. Jones. Iron Age 116:1182 O 29 '25
Mechanical aids handle sand in manganese shop. P. Dwyer. il Foundry 53:140-4+ F 15 '25
Molding sand problem in the foundry. E. W. Smith. Iron Age 113:299+ Ja 24 '24; Abstract. Foundry 52:86-7 F 1 '24

SAND, Foundry—*Continued*

Molding sand used twice in same day. il Foundry 52:395 My 15 '24

Newaygo sand machine. il Brass W 20:362 O '24

Oil sand cores are discussed. Foundry 52:72-3 Ja 15 '24

Preliminary report of an investigation of the molding sand resources of Illinois. M. S. Littlefield. Illinois Geol S Rep of Invest 3: 1-37 '25

Proper sand control reduces loss. A. A. Grubbs. Iron Age 115:1841+ Je 25 '25

Sand handling in Cadillac foundry. F. L. Prentiss. il Iron Age 115:1199-1202 Ap 23 '25

Sandverdichten durch schleudern. il diag Zeit Ver Deutsch Ing 69:135-6 Ja 31 '25

Use of chemical reagents in molding sands. Brass W 19:358 N '23

Die verdichtung des formsandes. A. Gesser, jr. diags Stahl & Eisen 44:1371-2 O 30 '24

Das wesen des formsandes und seine bedeutung für die giessereitechnik; abstracts. P. Aulich. Stahl & Eisen 44:1213-14 O 2 '24; Zeit Ver Deutsch Ing 69:498 Ap 18 '25

See also Sand cutting machines; Sand mixers

Moisture content

Controlling moisture in sand. A. A. Grubb. il diags Foundry 53:145-7 F 15 '25

Reclamation

Foundry sand recovery plant. il Engineer 139:572 My 22 '25

Reclaiming brass foundry sands. F. L. Wolf and A. A. Grubb. Metal Ind 22:438-41 N '24; Same. Foundry 53:116-19 F 1 '25

Reports on sand reclamation tests. Foundry 52:470-1 Je 15 '24

Testing

Apply test methods to aid in controlling sands in foundries. H. W. Dietert. il Foundry 53:361-6 My 1 '25; Abstract. Stahl & Eisen 45:1034-6 Je 25 '25

Chemical properties are determined. Foundry 52:713-16 S 15 '24

Cohesiveness test of sands. H. Ries and C. M. Nevin. Brass W 20:99-100 Mr '24

Effect of heat on clay content of molding sand shown by dye adsorption test. R. F. Harrington, W. L. MacComb and M. A. Hosmer. Brass W 20:421-2 D '24; Same. Foundry 53:221-2+ Mr 15 '25

Formstoff- und formenprüfung. L. Treuheit. il diag Stahl & Eisen 43:1363-9, 1494-8 N 1, D 6 '23

Report on molding sand tests. il Foundry 52: 675-80 S 1 '24

Reports status of sand tests. H. Ries. Foundry 53:531-4+, 576-9 Jl 1-15 '25; Discussion. E. W. Smith. 53:834 O 15 '25

Sand test methods. C. W. H. Holmes. Foundry 52:385-8, 435-8 My 15-Je 1 '24

Standardizing test methods. Foundry 52:635 Ag 15 '24

Steel moulding sands and their behaviour under high temperatures; abstracts with discussion. A. L. Curtis. Engineering 120: 361-2 S 18 '25; Engineer 140:290 S 18 '25

Testing of molding sands. H. Ries. il Sibley J 38:136-8+ Je '24

Tests for molding sand. A. Bregman. il Metal Ind 23:99-102, 277-8, 493-5 Mr, Jl, D '25

Ueber formsandprüfungen. P. Aulich. il Stahl & Eisen 44:217-23 F 28 '24

SAND blast

Cleaning rubber molds with sand blast. H. B. Pickering. il India Rubber W 69:373-4 Mr '24

Corrugated sand blast barrel. il Iron Age 114:1354 N 20 '24

McLeod sandblast cabinet. il Am Mach 59: 967 D 27 '23

Neuzeitliche gussputzerei. U. Lohse. diags Stahl & Eisen 45:1661-6 O 1 '25

Orifice design in sandblast nozzles. L. D. Peik. diags Am Mach 62:311-12 F 19 '25

Quick loading sand blast barrel. il Iron Age 116:545 Ag 27 '25; Brass W 21:313 S '25; Foundry 53:757 S 15 '25; Am Mach 63:641 O 15 '25

Recommended practice for sandblasting and painting steel bridges. F. G. Schworm. diag Eng N 92:772-3 My 1 '24

Removing and preventing rust in penstocks. G: H. Bragg. Elec W 83:239-40 F 2 '24; Same cond. Eng N 92:163 Ja 24 '24

Sandblast castings to be enameled. F. G. Jaeger. il Am Cer Soc J 6:976-9 S '23; Discussion. (Bul) 6:370-2 D '23

Sand blast mill for cleaning small pieces in quantity. il Iron Age 113:1862 Je 26 '24

Sand blast sand. W. M. Weigel. U S Bur Mines Rep of Invest 2615:1-6 Je '24 (typew); Same, without table. Iron Tr R 75:803-4 S 25 '24

Sand blast to clean boiler surfaces. Power 62:607 O 20 '25

Sand blasting cuts cost of cleaning many kinds of automotive parts. P. M. Heldt. il diags Automotive Ind 52:142-6 Ja 22 '25

Sandblasting castings prepares surface for finishing process. H. Orr. Foundry 53:747-9+ S 15 '25

Sandblasting proves an economical method of cleaning. il diag Elec Ry J 66:81-5 Jl 18 '25

Universal makes new sand blast. il Foundry 53:851 O 15 '25

SAND cars

Making the sand car reliable. il Elec Ry J 63:75 Ja 12 '24

Motor-driven sand box in Holyoke. diags Elec Ry J 63:76 Ja 12 '24

SAND cutting machines

Electric sand cutter. il Iron Age 116:1122 O 22 '25

Looking in on some sand-cutting machines in a cross-country trip. H. B. Pickering. il Brass W 20:331-4 O '24

SAND drying

Drying sand by electricity at mines cuts outside labor cost. il Coal Age 28:371 S 10 '25

Littleford new rotary sand dryer. il Eng & Contr (Equip R) 64:739-40 S 30 '25

Modern drying plant cuts sand cost in half. il Elec Ry J 65:619 Ap 18 '25

Modern sand dryer in Kansas City. il diags Elec Ry J 65:414-15 Mr 14 '25

Portable mechanically operated sand dryer. il Eng & Contr (R & S) 61:1254 Je 4 '24

SAND dunes

Flax barriers to check drifting sand. il Sci Am 131:255 O '24

Refuse used to restrain drifting sand. Eng N 92:767 My 1 '24

Sand dune reclamation in Palestine. Engineering 120:549 O 30 '25

SAND handling

Royer foundry sand blender and loader. il Cassier's Ind Management 11:139 Mr 6 '24

SAND-LIME brick

Compressive strength of sand-lime brick walls. H. L. Whittemore and A. H. Stang. il U S Bur Stand Tech Pa 276:57-71 '25

Recommended specification for quicklime and hydrated lime for use in the manufacture of sand-lime brick. U S Bur Stand Circ 150:1-6 '23

Sand-lime brick process. Soc Chem Ind J (Chem & Ind) 43:508 My 16 '24

SAND mixers

Mixes sand mechanically. M. Sklovsky. il diag Foundry 53:882-5 N 1 '25

Sand device measures and mixes sand. diag Foundry 52:703 S 1 '24

SAND traps

Denver's concrete sand trap. I. E. Houk. il Pub Works 56:378-9 O '25

Sand trap prevents silting of canal. R. J. Newell. il Eng & Contr (W W) 62:810-11 O 8 '24

SAND washers

Peebles portable sand washer. diag Soc Chem Ind J (Chem & Ind) 43:269 Mr 14 '24; Chem & Met Eng 30:993 Je 23 '24

SANDBERG sorbitic process. See Rails—Sandberg sorbitic process

SANDERS
Electric sand pipe heater. il Ry Age 76:336 F 2 '24; Ry Mech Eng 98:124-5 F '24; Engineering 119:58 Ja 9 '25; Elec Ry J 65: 345-6 F 28 '25
King sander trap employing new principle. il diags Ry R 74:343-4 F 23 '24
Sanding truck a great time saver. il Elec Ry J 65:381-2 Mr 7 '25

SAN DIEGO, California
Claus Spreckels' play-toy. C. Spreckels. il Aera 13:350-6 O '24
Water front zoning at San Diego. M. A. Graham. Eng N 95:226-7 Ag 6 '25

Water supply
Bringing the Colorado river to San Diego. B. F. Randel. map Prof Eng 9:7-9 D '24
San Diego approaches water supply limit. Pub Works 56:31-2 Ja '25

SANDING machines
Abrasive device replaces file. il Iron Tr R 77:628-9 S 10 '25
Carborundum portable sanding machine for metal products. il Am Mach 62:903 Je 4 '25; Iron Age 115:1633 Je 4 '25; Mach 31:911-12 Jl '25; Automotive Ind 52:990 Je 4 '25; Ry Mech Eng 99:595-6 S '25

SANDPAPER
Sandpaper used to finish patterns. W. C. Ewalt. Foundry 52:694 S 1 '24

SANDSPUN pipe. See Cement-lined pipe

SANDSTONE
Bituminous sandstone area of southwest Missouri. C. W. Hall. Eng & Min J 118: 1011-12 D 27 '24
Contributions to the geology of Maine; the Moose River sandstone and its associated formations. E: H. Perkins. map Am J Sci 5th ser 10:368-75 O '25

SAN FRANCISCO
Diamond jubilee of Golden Gate. il Pub Serv Management 39:84-5 S '25
The new San Francisco. W. Irwin. il Nation's Business 13:20-1 Ag '25

Architecture
California palace of the Legion of Honor, San Francisco. L. French, jr. il plans Arch Forum 43:201-8 O '25
Some recent office buildings in San Francisco. W: C. Hays. il plans Arch Forum 41:101-4, pl 33-4 S '24

Bridges
Cantilever highway bridge across Carquinez Strait. C. Derleth, jr. diags map plan Eng N 95:504-7 S 24 '25
Contracts awarded on Carquinez Strait bridge. Eng N 94:948 Je 4 '25
Proposed Bay bridge over San Francisco's harbor. il Am Arch 127:233-4 Mr 11 '25
San Francisco Bay bridge situation. map Eng N 95:178-80 Jl 30 '25
Something new in bridge design; spanning the famous entrance to San Francisco harbor. il diag Sci Am 131:258+ O '24

Chinatown
When West meets East in Chinatown. F. S. Clark. il Burroughs Clearing House 9:12-13+ F '25

Rapid transit
Key route plan approved. Elec Ry J 62:1100 D 29 '23
Machinery speeds up trackwork. W. D. Chamberlin. il Elec Ry J 63:95-6 Ja 19 '24; Same. Eng & Contr (Ry) 61:414-15 F 20 '24
Market Street railway net $1,195,566. Elec Ry J 63:998 Je 21 '24
$933,277 surplus for Market street railway, San Francisco. Elec Ry J 65:487 Mr 21 '25
Pay increases refused in San Francisco. Elec Ry J 65:271 F 14 '25
Platform men pass civil service tests. Elec Ry J 62:971-4 D 8 '23
San Francisco Municipal loss $272,046. Elec Ry J 63:869-70 My 31 '24; Aera 13:398-400 O '24
San Francisco Municipal loss $295,230. Elec Ry J 65:354-5 F 28 '25
Two purchase propositions at San Francisco. Elec Ry J 66:418 S 12 '25

Schools
San Francisco survey for school accomodation. G. W. Hayler. Munic & Co Eng 69:151-2 S '25

Streets
Readjustment of grades on steep hills. il Eng & Contr (R & S) 64:979-81 N 4 '25
Reducing street grades by winding brick pavement and retaining walls. il Eng & Contr (R & S) 64:809-10 O 7 '25
Trucking subway on San Francisco waterfront. F. G. White. plan Eng & Contr (Ry) 61:652-3 Mr 19 '24
Vehicular subway in San Francisco. C: W. Geiger. il Pub Works 56:377 O '25
Vehicular subway under Market St in San Francisco. diag plan Eng N 95:548-9 O 1 '25

Water supply
Calaveras reservoir of Spring Valley water company. G: A. Elliott. il diag Eng & Contr (W W) 64:377-80 Ag 12 '25
$39,000,000 water project of the East Bay cities. map Eng N 93:960-1 D 11 '24

See also Hetch Hetchy water supply project

SAN FRANCISCO stock and bond exchange
Transactions on San Francisco stock and bond exchange during first half of 1925. Comm & Fin Chr 121:1175 S 5 '25
Western capitol of capital—San Francisco. E. Dakin. Comm & Fin 13:2147-9 N 5 '24

SANITARY districts
Metropolitan district plans in Maryland. A. Wolman. map Pub Works 55:242-5 Ag '24
Metropolitan sewer plan for Los Angeles county. A. K. Warren. map Eng N 94: 1026 Je 18 '25
Sanitary districts authorized in Michigan. Eng N 95:351 Ag 27 '25

See also Metropolitan districts

SANITARY engineering
Engineer and the public health. F. A. Dallyn. Can Eng 47:583-8 D 9 '24
English practice in sanitary engineering. H. C. H. Shenton. Can Eng 45:513-15 N 20 '23; Same. Eng & Contr (W W) 61:107-10 Ja 9 '24
Present status of sanitary engineering; suggestions for objects and aims of the sanitary engineering division. H. P. Eddy. Am Soc C E Pro 50:3-12 Ja '24; Same abr. Eng & Contr (W W) 61:83-8 Ja 9 '24
Principles of public health engineering. E. B. Phelps. 265p Macmillan '25
Sanitary engineering in 1923. Engineer 137: 10-11 Ja 4 '24
Sanitary engineering in 1924. Engineer 139: 25, 41-2 Ja 2-9 '25
Sanitary engineering progress in England reviewed in the annual report of the Ministry of health. Can Eng 46:124 Ja 8 '24
Sanitary matters in Wisconsin. F. R. King. Sanitary & Heat Eng 104:122-3 Ag 21 '25
Sanitation in San Salvador. il Eng & Contr (W W) 63:1033-40 My 13 '25
Some public health engineering problems in Chicago. A. E. Gorman. W Soc E J 30: 141-5 Ap '25

See also Drainage; Dust removal; Filters and filtration; Heating; Municipal engineering; Odors—Elimination; Pipe laying; Plumbing; Public comfort stations; Refuse collection; Refuse disposal; Sanitation; Sewage disposal; Sewerage; Smoke prevention; Snow removal; Street cleaning; Trade waste; Ventilation; Water closets; Water pollution; Water purification; Water supply; Water supply engineering; *also* International conference on sanitary engineering

SANITARY engineering—*Continued*

Study and teaching

Sanitary engineering courses in America. Eng & Contr (W W) 62:595 S 10 '24
Sanitary engineering courses of engineering colleges in the United States. I. W. Mendelsohn. J Eng Educ 15:623-34 Ap '25
Scholarships in sanitary engineering. Sanitary & Heat Eng 102:78-80 Ag 8 '24

Terminology

See Sewerage—Terminology

SANITARY inspectors

Few public health courses given for sanitary inspectors. A. R. White. Nation's Health 7: 673-4 O '25

SANITARY inspectors association of Canada

Annual convention, 11th, Fort William, Ont., September 3-5. Can Eng 47:345 S 16 '24

SANITARY law

See Sewage disposal—Laws and regulations; Sewerage—Laws and regulations; Water laws and regulations

SANITARY potters' association

Pottery manufacturers vindicated. Sanitary & Heat Eng 101:335-7+ My 30 '24

SANITARY ware

Enameled sanitary ware production figures. Sanitary & Heat Eng 104:243 O 16 '25

Manufacture

Can you use these ideas? $2,500,000 Maddock plant. il Brick & Clay Rec 67:261-3 Ag 18 '25
Casting control. A. C. Gerber. Am Cer Soc J 8:18-22 Ja '25
Development of a casting body for vitrified sanitary ware from American materials. A. Foltz. Am Cer Soc J 8:383-90 Je '25
Sanitary ware plant with 7 tunnel kilns. il Brick & Clay Rec 65:391-3 S 16 '24
Thomas Maddock sons company new plant. il Sanitary & Heat Eng 103:428-30+ Je 26 '25
Vitreous sanitary ware industry. W. A. Darrah. il Am Cer Soc J (Bul) 4:261-83 Je '25; Excerpt. Chem Age (Lond) 123:sup12 S 19 '25

Statistics

Enameled sanitary ware, 1921-1924; index numbers and numerical data. Survey of Cur Business 30:114-15 F '24 [continued quarterly]
Enameled sanitary ware production from reports received from 21 manufacturers. Sanitary & Heat Eng 102:6 Jl 11 '24

SANITARY ware, Concrete

Concrete sanitary ware. F. A. Brackmann. il Concrete 27:21 Jl '25

SANITATION

Antiquated sanitation in France. T. Wolfram. il Dom Eng 112:16-18 Ag 15 '25
Making a sanitary survey. W. H. Larkin. Pub Works 56:131 Ap '25
Municipal house cleaning. A. P. Folwell. il Am Arch 126:123-6, 155-9 Jl 30, Ag 13 '24
Next step in sanitation. C. B. Nash. Sanitary & Heat Eng 102:186-7+ S 19 '24
Review of sanitary surveys in Ontario. F. A. Dallyn. Can Eng 49:297-9 S 8 '25
Royal sanitary institute, 36th congress, Edinburgh, July 20-25. Engineering 120:132-3 Jl 31 '25
Sanitary accomplishments in Wisconsin. Sanitary & Heat Eng 102:23-4 Jl 11 '24
Sanitation and the untamed summer resort cottager. J: M. Hepler. Munic & Co Eng 67:260-1 N '24
Sanitation—its relation to health and life. G: C. Whipple. Am Soc C E Pro 50:490-502 Ap '24
Sanitation slow in rural districts. J. W. Fortenbaugh. il Dom Eng 111:24-5 Ap 25 '25

See also Air washing; Cremation; Disinfection and disinfectants; Drainage, House; Dust removal; Factory sanitation; Hygiene; Hygiene, Industrial; Malaria; Mosquitoes; Nuisances; Plumbing; Public health; Refuse disposal; Sanitary districts; Sanitary engineering; Sewage disposal; Sewerage; Ships—Sanitation; Smoke prevention; Street cleaning; Trade waste; Ventilation; Water purification; Water supply

SANITATION, Household

Domestic sanitation and house drainage. H: C: Adams. 227p Oxford '23

SAN JOAQUIN light and power corporation

Distribution line practise. L. J. Moore and H. H. Minor. il diags Am Inst E E J 44: 1201-8 N '25
Industrial site effects concentration of supplies; San Joaquin light & power corporation operates efficient supplies. D. P. Mason. il diags plan J Elec 54:134-7 F 15 '25
New building of the San Joaquin light & power corporation. R. Garman. il J Elec 52:274-8 Ap 15 '24

SAN JUAN river

San Juan canyon, southeastern Utah. H. D. Miser. diags U S Geol S Water-supply Pa 538:1-80 pl 1-22 '24

SANKEY, Henry Riall, 1853-1925

Sketch. por Engineer 140:381-2 O 9 '25; Engineering 120:445-6 O 9 '25

SAN MARTIN, Jose de

President Coolidge commends Latin-American rule of arbitration as worthy of study by those seeking means of preventing wars —gift of statute of General Jose de San Martin. Comm & Fin Chr 121:2230-1 N 7 '25

SAN SALVADOR

Sanitary affairs

Sanitation in San Salvador. il Eng & Contr (W W) 63:1033-40 My 13 '25

SANTA ANA, California

Water supply

Serious typhoid epidemic caused by drain-sewer connection. il diags plan Eng N 92: 409-10 Mr 6 '24

SANTA BARBARA, California

Civic influences in architecture; the rebuilding of Santa Barbara. T. M. Hastings. Am Inst Arch J 13:408-9 N '25
Rebuilding of a shaken city. F. H. Williams. il Bldg Age 47:81+ N '25
Rebuilding of Santa Barbara planned. il Elec W 86:81-2 Jl 11 '25

Earthquake, 1925

Earthquake damage to Santa Barbara buildings. H: D. Dewell. il Eng N 95:68-72, 149-53 Jl 9, 23 '25; Discussion. 95:358, 559-60 Ag 27, O 1 '25
Earthquake effects at Santa Barbara. Eng N 95:46-7, 126-7, 228-30, 279 Jl 9, 23, Ag 6-13 '25
How Santa Barbara water works went through the earthquake. A. R. Poett and others. Eng & Contr (W W) 64:824-6 O 14 '25
Lessons from the Santa Barbara earthquake. B. Willis and others. Eng & Contr (Bldgs) 64:689-99 S 23 '25; Excerpts. Arch & Bldg 57:93-5 O '25
Lessons of the Santa Barbara earthquake. W. Soule. il diags Am Arch 128:295-302 O 5 '25
Santa Barbara earthquake; its effect upon the properties of the Southern counties gas co. F. H. Bivens. il Am Gas J 123:131-4+ Ag 15 '25; Same cond. Gas Age 56:257-8 Ag 22 '25
What happened to municipal utilities at Santa Barbara. il diag Eng N 95:146-9 Jl 23 '25

SANTA FÉ, New Mexico

Architecture

Ancient and modern architecture in Santa Fe, N.M. il Am Arch 125:421-5 My 7 '24

SANTA FE railway. See Atchison, Topeka & Santa Fe railway

SANTA MONICA, California
Engineering in the small city. Eng N 95:511-13 S 24 '25

Streets
Novel concrete street work in Santa Monica. M. J. Phillips. Concrete 27:39 S '25

SAO PAULO, Brazil
City American dollars helped make. F. Adams. il Nation's Business 12:29-30 Je '24

SAP
How sap runs in a tree. diag Sci Am 133:54-5 Jl '25

Analysis
Tests of a wet oxidation and modified Volhard method for the determination of chlorides in plant tissue fluids. J: V: Lawrence and J. A. Harris. Am Chem Soc J 46:1471-7 Je '24

SAPONIFICATION
Velocity of reaction in mixed solvents; the influence of the base on the velocity of saponification of esters in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 125: 2590-5 D '24
Velocity of reaction in mixed solvents; the velocity of saponification of certain methyl esters by potassium hydroxide in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 123:2688-98 O '23

SAPPHIRES
Marketing of precious stones. G: F. Kunz. il Eng & Min J 119:366-7 F 28 '25

SARDINIA
See also Hydroelectric plants—Sardinia; Iron mines and mining—Sardinia

Industries and resources
Kaolin deposits of Furtei, Sardinia. Chem Age (Lond) 11:sup15-16 S 20 '24

SARGASSO sea
Plumbing the depths of Neptune's secrets. A. A. Hopkins. il Sci Am 133:86-7 Ag '25

SARGENT, Fred W., 1876-
Hughitt and Finley retire; Sargent elected president of Chicago & north western. por Ry Age 78:1641-2 Je 27 '25

SARGENT, John G.
John G. Sargent of Vermont, appointed attorney-general. Comm & Fin Chr 120: 1408-9 Mr 21 '25

SARGENT, John Singer
Sargent and the great tradition. Am Inst Arch J 13:218-19 Je '25

SASKATCHEWAN
See Roads—Saskatchewan

SATIN
Advertising
Skinner's old advertising policy is put to a new use. Ptr Ink 129:10+ D 18 '24

SATIN, Indian
Technique of Indian satins. C. G. E. Bunt. il Textile World 65:3627+ My 31 '24

SAULT SAINTE MARIE canal
Great Lakes engineering problems. H. J. Lamb. il diags Can Eng 47:315-18 S 9 '24

SAUVEUR, Albert, 1863-
Bessemer medalist for 1924. por Chem & Met Eng 30:302 F 25 '24

SAVAGE, Gail
Radio's woman inventor. G. Savage. il Radio N 6:2089+ My '25

SAVANNAH, Georgia
Savannah—past, present and future. G. A. Gordon. il Comm & Fin 14:905+ My 6 '25
Savannah—port of the greater Southeast. A. H. Temple. il Comm & Fin 14:901+ My 6 '25

Bridges
Coastal highway crossing of the Savannah river delta. S. B. Slack. il diags plan Eng N 95:590-3 O 8 '25

SAVARY, Jacques, 1622-1690
Sources of modern business principles and practice; Savary's Le parfait négociant. A. P. Usher. Harvard Busness R 3:275-86 Ap '25

SAVENIUS wing rotor. See Rotors, Wing

SAVING
Build independence—don't provide for dependence. W: E. Knox. Comm & Fin 14:1447-8 Jl 29 '25
Defense of Coolidge economy. W: E. Knox. Bankers M 111:8 Jl '25
First thousand dollars. R. W. Saunders. Bankers M 111:24-5 Jl '25
For inspiring thrift. T. D. MacGregor. Burroughs Clearing House 8:38-9+ Ap '24
Great waste of personal income; activities of organized banking to educate. W: E. Knox. Am Bankers Assn J 17:733-4+ Je '25
How our workers save money. C. A. Duffner. Nation's Business 12:62+ My '24
Individual and social interests in relation to saving. C. F. Bickerdike. Econ J 34:408-22 S '24
Industrial insurance and thrift. W: C. Morton. Spectator 114:31-2 F 26 '25
Introducing New York's pay day club. G: W. Gray. il Burroughs Clearing House 8:15-16+ Jl '24
Keeping the wolf away from the salesman's door. Ptr Ink 130:25-6 Ja 8 '25
Lasting boon of the war loan drives. G. Emerson. Am Bankers Assn J 18:208+ O '25
Making pay envelopes promote thrift. W. L. Stoddard. Factory 32:316-17 Mr '24
Mass plans for gaining new savings accounts. B. W. Griffin. Am Bankers Assn J 17:86-7 Ag '24
Mechanical collection of savings. O. R. Johnson. Burroughs Clearing House 9:44-5+ Jl '25
National thrift week. E. B. Wilson. Comm & Fin Chr 121:152-4 sec 2 O 17 '25
Need of creative economy in the United States. T. H. Price. Comm & Fin 14:759, 994 Ap 22, My 20 '25
Our plan to help workers save. J: F. Tinsley. Nation's Business 12:56+ S '24
Practical thrift plans for employees. O. R. Johnson. Management & Adm 9:369-71 Ap '25
President Coolidge would have business forget Washington and move forward without fear of governmental interference. Comm & Fin Chr 120:2498-9 My 16 '25
Productive payroll deduction. J. K. Waibel. Burroughs Clearing House 9:10-11 Mr '25
Ruthless waste of wealth. W: E. Knox. Am Bankers Assn J 18:17-18 Jl '25
Save-to-travel—the new banking program. A. F. Wright. Bankers M 111:329-33 S '25
Saving and keeping. R: W. Saunders. Bankers M 108:896-7 Je '24
Saving and the monetary system. C. F. Bickerdike. Econ J 35:366-78 S '25
Savings plan of the Lake carriers' association. G: A. Marr. Marine Eng 29:271-2 My '24
Side lights on saving. H. A. Nater. Forbes 15:345-6 D 15 '24
Spending money wisely—the key to prosperity. A: Belden. Ptr Ink 126:53-4+ F 14 '24
Thrift, a common-sense view. A. P. Howard. Nation's Business 13:60+ S '25
Thrift in its true setting. W. R. Morehouse. Am Bankers Assn J 17:67-8+ Ag '24
To avoid the fate of the 54. Am Bankers Assn J 17:502 F '25
Trend of wage earners' savings in Philadelphia. M. H. Schoenfeld. charts Ann Am Acad 121:sup1-65 S '25
Twin City starts thrift fund. Elec Ry J 63: 536 Ap 5 '24
Wage earners' debts and the savings margin. O. R. Johnson. Bankers M 111:9-14 Jl '25
What can the employer do to encourage saving and wise investment by industrial employees? C. J. Hicks. Harvard Business R 2: 194-200 Ja '24

SAVING—*Continued*
What is your program of thrift promotion? F. H. Rindge, jr. Eng & Min J 117:887-8 My 31 '24
What thrift means. R. Parlette. Bankers M 110:474-5 Mr '25
What thrift means to business and government. A. W. Mellon. Ptr Ink 128:10+ Jl 3 '24
Why our men have the thrift view-point. C. M. Harger. System 46:161-2+ Ag '24
Why should the wage-earner save? O. R. Johnson. il Bankers M 108:875-81 Je '24

See also Advertisements—Thrift appeal; Building and loan associations; Christmas savings clubs; Cost of living; Credit unions; Employees as stockholders; Hoarding; Insurance, Industrial; Old age pensions; Savings banks; Savings deposits; School savings

SAVINGS banks
Adding a profitable department to the savings bank; real estate loan department. T. R. Durham. Am Bankers Assn J 18:213-14+ O '25; Same. Comm & Fin Chr 121:138-41; Discussion. 145-6 sec 2 O 17 '25
A.B.A. savings bank division meeting. Bankers M 111:529-38 O '25
Architecture of mutual savings banks. C. W. Brazer. il Bankers M 109:350-3 Ag '24
Bank savings increase billion in a year. Comm & Fin Chr 117:2385 D 1 '23
Change of aim in savings. C: H. Deppe. Am Bankers Assn J 17:18-19 Jl '24
Discussions of the delegates at the International thrift congress, Milan. C: A. Miller. Am Bankers Assn J 17:388+ D '24
Do savings banks promote thrift? Bankers M 110:313-15 F '25
Do savings banks promote thrift? O. R. Johnson. Bankers M 109:867-71 N '24
Keeping savings banks assets liquid. E. W. Wilson. Am Bankers Assn J 17:560+ Mr '25
New plan of investment savings. Am Bankers Assn J 18:67-8 Ag '25
Ninety years of the Greenwich savings bank. J. H. Collins. 73p Greenwich savings bank, New York '23
Real estate finance and the nation's welfare. Comm & Fin Chr 119:2344-5 N 22 '24
Savings banking. G. G. Munn. Bankers M 110:531+ Mr '25
Savings departments as they are. F. L. Beach. Burroughs Clearing House 8:9-12+ F '24
Setting up a department to sell real estate mortgages. T. R. Durham. Am Bankers Assn J 18:339-40+ N '25
Story of mutual savings banks. F. P. Bennett, jr. 140p F. P. Bennett & co., inc., Boston '24
"A stranger, and ye took me in"; savings banks protect immigrants. B. W. Griffin. Bankers M 108:368-72 Mr '24
When savings accounts reach a peak. J. H. Collins. il Burroughs Clearing House 8:5-7+ My '24

See also Bowery savings bank, New York; Franklin society for home-building and savings; Postal savings banks; Savings deposits; School savings; School savings banks

Advertising

How Massachusetts savings banks co-operate to get new deposits. A. F. Wright. Bankers M 110:45-7+ Ja '25
New magnets for idle dollars. Am Bankers Assn J 16:741-2+ My '24
Savings banks and advertising. W: E. Knox. Bankers M 109:1071-4 D '24; Same. Am Bankers Assn J 17:363-4 D '24
Savings plan to keep money in the bank. B. Davenport. Am Bankers Assn J 18:80+ Ag '25

See also Building and loan associations—Advertising

Investments

Changes in the field of legals. W. A. Lloyd. Am Bankers Assn J 17:689 My '25
Electric light and power securities for savings banks' investment. M. S. Sloan. N E L A Bul 12:706-9 N '25; Excerpt. Elec W 86:881 O 24 '25
Legal investments for savings banks in Massachusetts. Comm & Fin Chr 120:2181 Ap 25 '25
Service to the savings depositor. A. P. Howard. Am Bankers Assn J 18:212 O '25
Sound investment policy for savings banks. K. M. Andrew. Am Bankers Assn J 18:218-19+ O '25; Same. Comm & Fin Chr 121:136-8; Discussion. 144-5 sec 2 O 17 '25

SAVINGS deposits
Banker and life insurance; abstracts. A. C. Robinson. Econ W n s 30:202-4 Ag 8 '25; Spectator 115:29-31 Jl 23 '25
Developing the savings business through cultivation of the existing customer. G. P. Knapp. Bankers M 110:635-40 Ap '25
Eighteen billions of savings deposits in 1923. Am Bankers Assn J 16:440 Ja '24
Four current banking problems. J. F. Sartori. Am Bankers Assn J 18:356+ N '25
Growth in savings deposits. J. M. Willcox. Comm & Fin Chr 120:901 F 21 '25
Growth of savings bank deposits. Bradstreet's 52:797 D 13 '24
Lowering the interest rate on savings deposits. Bankers M 109:1084 D '24
Means of promoting savings business. Am Bankers Assn J 17:640+ Ap '25
Onward surge of thrift. C: H. Deppe. Am Bankers Assn J 17:239-40 O '24
Passing of a will-less estate. J. E. McGuigan. Am Bankers Assn J 17:332+ N '24
Remarkable increase of savings in the United States from 1912 to 1924. Econ W n s 28: 805-6 D 6 '24
Savings deposits. Survey of Cur Business 30: 182-3 F '24 [continued quarterly]
Savings manager and the retail end of banking. H. H. Reinhard. Am Bankers Assn J 17:621+ Ap '25
Seven years of baby accounts. W. J. Taylor. Burroughs Clearing House 9:26+ Je '25

See also Christmas savings clubs

SAWDUST
New Oregon industry. Chem & Met Eng 32: 787 O '25
Sawdust as a fuel for gas production. H. Dormand. diags Power 59:962-3 My 27 '24

See also Wood waste

SAWMILLS
Burlington opens saw mill to meet purchasing problem. il Ry Age 79:653-6 O 10 '25
Mammoth electrical sawmill at Longview, Wash. begins operations. il J Elec 53:145-6 Ag 15 '24
Mechanical handling at River Rouge; the saw mill and the tractor assembly. M: W. Potts. il diag plan Ind Management 68:92-5 Ag '24
Natural combination of industries but an unusual one; lumber and paper. il plan Chem & Met Eng 32:10-12 Ja 5 '25
Sawmill fuel house built of concrete. E. L. Crowe. il Eng N 93:348-9 Ag 28 '24; Same. Eng & Contr (Bldgs) 62:929-33 O 22 '24
Sawmills grow by what they feed on. H. C. Ridgely. il Am Exporter 95:11-14+ Ag '24
Saw-mills, their arrangement and management and the economical conversion of timber. M. P. Bale. 6th ed., rev. and enl. 388p C. Lockwood and son, London '24

Electric equipment

Percy electric dog and taper device for saw mill carriages. J. J. Tallman and C. A. Binns. il Gen Elec R 28:91-5 F '25

See also Electric driving—Sawmills

Employees

Prize contest encourages workers to aid in developing an industry. D. G. Miller. Ptr Ink M 8:43-4+ Mr '24
Wages and hours of labor in lumber manufacturing, 1923. U S Bur Labor Statistics Bul 363:1-32 '24
Wages and hours of labor in sawmills, 1923. Monthly Labor R 18:77-80 Ja '24

SAWMILLS—Employees—*Continued*
Wages and hours of labor in sawmills in Finland, 1913 to 1924. Monthly Labor R 19:1273-5 D '24

Lighting

Electricity in a modern lumber project. F. R. Innes. il plans Elec W 85:297-301 F 7 '25

Power

18,000-kw. plant serves Long-Bell lumber company. il Power 60:638-41 O 21 '24
Electric power application in Pacific Northwest fir mills. J. L. Wright. il Am Inst E E J 43:1117-23 D '24; Discussion. 44: 407-9 Ap '25
Electricity in a modern lumber project. F. R. Innes. il Elec W 85:243-6 Ja 31 '25
Generated vs. purchased power in various industries; report of Pacific coast electrical association. J Elec 54:412-15 Je 1 '25
Long Bell lumber co. plant in operation. il Power Pl Eng 28:1120-1 N 1 '24
Lumber company plant burns refuse with coal. il diag plan Power Pl Eng 29:318-22 Mr 15 '25
New electrically driven flooring plant. E. B. Clement. il Gen Elec R 27:602-8 S '24

Safety devices and measures

American logging and sawmill safety code. 140p U. S. Bur. of standards, Washington '24
Practical uses of the logging and sawmill safety code. J: A. Dickinson. il Nat Safety N 10:35-8 D '24

SAWS
Atkins silver-steel saw blades. il Am Mach 63:174 Jl 23 '25; Ry Mech Eng 99:790 D '25
Band saw expedites metal cutting. O. R. Hott. il Elec Ry J 65:107-8 Ja 17 '25
Band saw which cuts solid bars and tubing at high speed. il Ry Mech Eng 98:700-1 N '24
Biennial census of the production of saws in 1923. Am Mach 61:422 S 11 '24
Billingsley power saw. il Eng & Contr (Bldgs) 63:1181 My 27 '25
Cochrane-Bly automatic cut-off saw no. 21-SA. il Am Mach 63:601 O 8 '25
Cochrane-Bly sawing machines. il Iron Age 116:895 O 1 '25; Am Mach 63:563 O 1 '25; Mach 32:162-3 O '25
Convenient tool for cutting dust guards. J. T. Porter. diag Elec Ry J 62:1059-60 D 22 '23
Disston ideal saw and groover. il Eng & Contr (G C) 64:884-5 O 21 '25
Goddard & Goddard metal-slitting saws. il Mach 31:736-7 My '25
Guide for power hacksaw blade. J. H. Smit. diags Mach 31:982 Ag '25
Hack-saw blade that improves with age. Sci Am 130:105 F '24
Hunter high speed metal cut-off saw. il Iron Age 114:920 O 9 '24; Marine Eng 30: 589 O '25
Improved line of band saws by the American saw mill machinery company. il Elec Ry J 65:977 Je 20 '25; Ry Mech Eng 99:380-1 Je '25
Interesting tie plug cutting machine. il diags Ry R 75:737-9 N 8 '24
Michel portable electric circular hand saw. il Ry Mech Eng 99:307 My '25
Oliver overhead mounted wood swing saw. il Ry Mech Eng 99:586 S '25
On the job or in the shop power saws save money. il Bldg Age 47:118-19 F '25
Patternmaker finds saw basic tool. W. C. Ewalt. diags Foundry 53:705-8 S 1 '25
Portable logging saw and petrol engine. il diags Engineering 117:410-11 Mr 28 '24
Rapidor metal sawing blade is great improvement. il Brass W 19:407-9 D '23
Sawing machines at the Olympia machine tool exhibition. Engineering 118:319-20 S 5 '24; Engineer 138:sup iii S 12 '24
Selection and use of hack saw blades. H. Bentley. Cassier's Ind Management 12:311-12 My '25
Special saw rigged up to cut out wooden flooring. il Ind Eng 83:247 My '25
Special tool for setting circular saws. diag Elec Ry J 63:264-5 F 16 '24
Stockbridge metal cutting bandsaw. il Am Mach 60:524-5 Ap 3 '24
To reduce big variety of hack saw blades. Sanitary & Heat Eng 101:388 Je 13 '24

Advertising

Advertising that gets its readers to talk about it; Simonds saw and steel co. M. Hastings, jr. il Ptr Ink M 9:37+ S '24

Manufacture

Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 122:349-50+, 389-91+ Ap 25, My 9 '25
Saw-making made less hazardous than taffy pulling. Safety Eng 49:261 Je '25

Safety devices

Glover new circular saw guard. diag Engineer 139:223 F 20 '25
Guards for wood working machinery. il diags Ry R 75:585-7 O 18 '24
Safety guard for circular saws. il Ry Mech Eng 99:350 Je '25
Safety in the use and care of saws. S. H. Disston. il Nat Safety N 9:17-18 Ap '24

SAYBOLT, George Martin
Portrait. Chem & Met Eng 31:8 Jl 7 '24

SCAFFOLDING
Adjustable scaffolding for car body work. il diags Elec Ry J 64:210 Ag 9 '24
Convenient type of portable scaffolding. il Ry Mech Eng 99:634 O '25
Scaffold for high tower construction. diags Eng & Contr (Bldgs) 63:884-6 Ap 24 '25

Safety devices

Accidents due to falling objects. il Safety Eng 50:223 O '25
American safety scaffolding principles being used abroad. E. Pitou. il Safety Eng 50:1-9 Jl '25
Lackner safety system. il Safety Eng 48:181-2 O '24

SCALES
Amthor direct-reading quadrant-type scales. il Am Mach 63:641 O 15 '25
Be fair to scales and they'll be fair to you. C. R. Dutton. il Iron Tr R 76:1061-2 Ap 23 '25
Production of scales and balances in 1923. Am Mach 61:446 S 18 '24
Scales and weighing. H. T. Wade. 473p Ronald press '24
Unlimited opportunity for scale sales. B. Page. il Am Exporter 94:47+ Ja '24
Weighing apparatus used in the rubber industry. il India Rubber W 70:781-2 S '24
See also Balances; Track scales

SCANDINAVIA
See also Electric plants (central stations)—Scandinavia; Railroads—Electrification—Scandinavia; Shoe industry and trade—Scandinavia; Tobacco industry and trade—Scandinavia; Wages—Scandinavia

Commerce

Trade tales of the Vikings. F: Simpich. il Nation's Business 12:31-3 F '24

SCARSDALE, New York

Bridges

Two parkway bridges planned by engineer and architect; Scarsdale and Valhalla. A. G. Hayden. il diags plans Eng N 95:16-19 Jl 2 '25

SCHEDULES
Building tractors under scientific management. G: D. Babcock. Management & Adm 8:265-70, 377-82 S-O '24
Classifying repairs of freight equipment. F. A. Starr. plan Ry R 77:700-3 N 7 '25
Effective repair part schedules. J: H. Ames. Management & Adm 9:525-6 Je '25
How we maintain a smooth flow of production. E. F. Roberts. il Factory 33:794-7+ D '24

SCHEDULES—*Continued*

How we make date due coincide with date shipped. A. Hegeman. il Factory 33:38-9 Jl '24

Improved shop operation at Albuquerque, N.M. il Ry Mech Eng 98:333-42 Je '24

Our nine gains from planned production. G: A. Meihaus. il Factory 33:343-4+ S '24

Passenger car scheduling system. J. Gullage. chart Ry Mech Eng 99:502-5 Ag '25

Plan that makes us keep shipping promises. H. N. Gilbert. Factory 32:216+ F '24

Sacrifice hit advances a runner. H. J. Coane. Factory 34:425+ Mr '25

Shop scheduling and production control. L. C. Bowes. Ry R 73:925-9 D 29 '23

Systematic scheduling of construction work. R. A. Miller. il Elec W 84:1159 N 29 '24

Why our contracts stay sold. System 48:580+ N '25

Why the truck is red. C. W. Geiger and D. Sullivan. il Factory 34:437 Mr '25

See also Building—Schedules; Control boards; Progress records; Roads—Construction schedules; Street railroads—Schedules

SCHIFF bases

Schiff's bases from 3,5-dibromo-salicylaldehyde. C. M. Brewster. Am Chem Soc J 46: 2463-8 N '24

SCHISTS

Alternative interpretations of some crystalline schists in southeastern Pennsylvania. A. C. Hawkins. Am J Sci 5th ser 7:355-64 My '24

Leverrierite as a schist-forming mineral. C. S. Corbett. Am J Sci 5th ser 10:247-68 S '25

SCHOLARSHIPS and fellowships

Carnegie institute of technology to provide for national association scholarships. Sanitary & Heat Eng 103:269-70 Ap 17 '25

Fellowships and scholarships for advanced work in science and technology. Nat Research Council Bul v 7, pt 2:1-94 N '23

See also American bankers' association—Educational foundation; Guggenheim foundation

SCHOOL architecture. See Schoolhouses

SCHOOL children

See also School hygiene; Schools—Medical inspection

Transportation

Consolidation of schools and pupil transportation; the use of the automobile. L. A. King. diag Ann Am Acad 116:69-80 N '24

Motor bus doubles effectiveness of consolidated country schools. il Bus Transportation 3:74-5 F '24

School business, an owner finds, is a worth while by-product. il Bus Transportation 2: 571-4 D '23

Selling byproducts in two states; Acme lines, working in Massachusetts and Connecticut, handle school children on common carrier route. il map Bus Transportation 3:255-7 Je '24

See also Motor bus lines, School

SCHOOL decoration

Mural paintings in the North Junior high school, Waltham, Mass. Arch Rec 57:39, 41-2 Ja '25

SCHOOL finance

Introduction to public school finance. B: F. Pittenger. 372p [bibliog. p. 363-4] Houghton '25

Major problems: the school. T. Finty, jr. Comm & Fin 13:1305-6 Jl 9 '24

SCHOOL hygiene

And youth replied, "I can." il Nation's Health 6:674-5 O '24

Baltimore's elementary schools present progressive features. il Nation's Health 6:860-1 D '24

Juvenile board of health. R. G. Beachley. il Nation's Health 6:676-8+ O '24

See also Dental service; Schools—Medical inspection

SCHOOL lands

Public leasehold system in the United States. M. L. Shine. J Land & Pub Util Econ 1: 322-35 Jl '25

SCHOOL laws and legislation

Oregon's discriminatory school law void. Bradstreet's 53:369 Je 6 '25

Supreme court decision in the Oregon compulsory education law. Comm & Fin Chr 120:3249-52 Je 27 '25

United States Supreme court rules against Oregon compulsory school act. Comm & Fin Chr 120:2891-3 Je 6 '25

SCHOOL lunches

Effect of the school nutrition class on underweight. J. Kuhnert. Nation's Health 7:681-2 O '25

Hot lunches served in consolidated schools. E. I. Anderson. il Nation's Health 6:97-8+ F '24

Underweight child and the mid-morning lunch. J. Kuhnert. il Nation's Health 7: 252-3 Ap '25

SCHOOL safety patrols

How knights of the crossroads protect Newark children. C: A. MacCall. il Nat Safety N 11:21-3 Mr '25

SCHOOL savings

Increase in school savings. Bankers M 109: 1070 D '24

School savings in a small town. J. M. Dorr. Am Bankers Assn J 17:144+ S '24

School savings show sharp gain. Am Bankers Assn J 17:263 O '24

Treasure chest of school savings. F. W. Hausmann. il Burroughs Clearing House 8:10-11+ Jl '24

SCHOOL savings banks

Savings bank operation in the Baltimore public schools. I. S. Field. Manuf Rec 86:73 Jl 17 '24

SCHOOL surveys

San Francisco survey for school accommodation. G. W. Hayler. Munic & Co Eng 69:151-2 S '25

SCHOOLHOUSES

American school buildings. F. B. Dresslar. diags plans U S Bur Educ Bul 17:1-100, pl 1-45 '25

Atlanta school building program. A. T. Brown. il plans Arch Rec 57:257-65 Mr '25

Build fire-safe schools. A. C. Carruthers. il Safety Eng 50:141-53 S '25

Comparison of three types of schoolhouse construction. A. R. Reilly. diag plans Am Arch 125:416-18 Ap 23 '24

Eliminating waste in schoolhouse planning. F. I. Cooper. Am Soc Heat & V E J 31: 297-304 My '25

Fireproof school building contains novel features. F. A. Naramore. il diags plans Concrete 25:216-22 D '24; Same. Eng & Contr (Bldgs) 63:619-28 Mr 25 '25

Functions and plan—types of community buildings. D. H. Perkins and H. Taylor. plans Arch Rec 56:289-304 O '24

Gymnasium addition to East Orange, N. J., high school; views. Am Arch 127:pl 85-7 Ap 8 '25

High school while you wait. N. Swett. il plans Bldg Age 47:110-14 Ap '25

Improved structural design in large Canadian school building; W. H. Ballard school in Hamilton, Ont. il Eng & Contr (Bldgs) 61: 662-4 Mr 26 '24

Movable bleachers for school gymnasia and girls' gymnasium dressing and shower booths. il diags plans Am Arch 127:135-41 F 11 '25

Piedmont high school, Piedmont, California; views. Arch Rec 57:441-3 My '25

Public school no. 109, Bellaire, L.I. il Arch & Bldg 57:78-9, pl 192-3 S '25

Report of Committee on school house planning. 164p National education assn. of the United States, Washington, D.C. '25

Representative city elementary school buildings of Illinois. 134p Illinois. Dept. of public instruction, Springfield '24

SCHOOLHOUSES—*Continued*
St Mark's parochial school, Evanston, Illinois; views. Arch Rec 56:237-43 S '24
School building survey, state of New Jersey, 1922. 128p New Jersey. Dept. of pub. instruction, Trenton '23
Small schoolhouse. C: G. Loring. il plans Arch Forum 43:33-40 Jl '25
Southern educational buildings a most active field. C. A. Carroll. Eng & Contr (Bldgs) 61:1188-90 My 28 '24
Spanish style for a school of the Southwest; the Roosevelt school, Tucson, Arizona. il diag Bldg Age 46:86-7 D '24
Sunbeam school: a public school for crippled children. A. Christianar. il Nation's Health 6:303-5+ My '24
Weaver high school, Hartford, Conn. il plans Am Arch 128:199-206, 235-6 Ag 26-S 9 '25

See also Normal schools; School decoration; *also* Rosemary Hall, Greenwich, Connecticut

Designs and plans

Boyer school, Philadelphia, Pa. il plan Am Arch 128:242 S 9 '25
Brookline, Mass. high school. Arch Rec 57:321-6 Ap '25
Brookline high school, Brookline, Mass., Alexander Hamilton junior high school, Elizabeth, N.J. and William G. Crosby high school, Belfast, Maine. Am Arch 128:49-52, pl 184-90 Jl 15 '25
Building a rural high school. P. H. Patrick. il plans Bldg Age 46:71 Je '24
Building better schools. W: V. Fitzgerald. il plans Bldg Age 46:43-8 Jl '24
Building better schools; a small town high school. il plans Bldg Age 45:38-9 N '23
Cammack junior high school, Huntington, West Virginia. il plans Arch Rec 55:157-61 F '24
Cross roads school, Morton Corners, Ind. il plans Am Arch 128:241 S 9 '25
Evanston, Illinois, Township high school. il plan Am Arch 128:323-4, pl 272-4 O 5 '25
Handley schools, Winchester, Virginia; George Peabody demonstration school, Nashville, Tennessee; views and plans. Arch Rec 55:237-9 Mr '24
High school, Patchogue, Long Island, N.Y.; views and plans. Arch Rec 58:151-5 Ag '25
High school that serves many needs. Bldg Age 46:110-11 N '24
Jefferson intermediate school, Detroit, Michigan. Arch Rec 55:443-9 My '24
Kearney high school, Kearney, N. J.; views and plans. Am Arch 126:pl 138-40 O 22 '24
Laconia high school, Laconia, N. H. il plans Arch Forum 42:77-8 F '25
Lincoln school for colored children, Terre Haute, Ind. Am Arch 127:389 Ap 22 '25
Marshall school, South Orange, N.J. Am Arch 125:434a-b My 7 '24
Model high school; imposing brick structure being erected at Bridgeport, Conn. il plans Bldg Age 46:56-7 Ja '24
North Junior high school, Waltham, Massachusetts; views and plans. Arch Rec 57:33-42 Ja '25
One-story type of school. A. M. Hahn. il plan Nation's Health 6:245-7 Ap '24
Public Latin school, Boston, Mass., views and plans. Am Arch 124:436a-e, 437-8 N 7 '23
Public school annex no. 72, New York city, school no. 196, Brooklyn, N.Y. Arch & Bldg 56:pl 246-7 D '24
Recent English tenement and school buildings. H. J. Birnstingl. il plans Arch Forum 40:23-8 Ja '24
Roosevelt high school, Wyandotte, Mich.; views and plans. Am Arch 126:pl 180-4 D 3 '24
Sacred Heart parochial school, Terre Haute, Ind. il plans Am Arch 128:193-4 Ag 26 '25
School like an old world mission. J. H. Hawkins. il Bldg Age 47:96-7 Mr '25
Small schoolhouses with specification and data sheets. il plans Arch Forum 43:38, 41-56 Jl '25
South Junior high school, Waltham, Mass.; views and plans. Am Arch 126:pl 44-5 Jl 30 '24
South Side high school, Rockville Centre, New York; views and plans. Arch Rec 56: 529-33 D '24
Southern colonial school. il plan Bldg Age 46:52 O '24
Spending the school fund to advantage. il plans Bldg Age 46:56-7 S '24
Summit high school, Summit, New Jersey; views and plans. Arch Rec 56:39-43 Jl '24
Village schoolhouse of today. il plans Bldg Age 47:104-5 S '25
West Side junior high school, Appleton, Wis.; view and plan. Am Arch 126:pl 144 O 22 '24
Why should wood joists or brick-bearing walls be used in modern school buildings? A. R. Reilly. plans Concrete 23:227-9 D '23; Same abr. Eng N 91:880-1 N 29 '23
Work of William B. Ittner. G. Study. Arch Rec 57:97-124 F '25

Heating and ventilation

Air recirculating practice in the Northwest. C. F. Tweed. Heat & Ven 22:74 S '25
Electric heating in the Esparto Union high school, San Francisco. A. Strauch. il J Elec 52:321-3 My 1 '24
How they save fuel in Kansas; effective combination of direct-transmission air heaters and steam boiler. J: H. Kitchen. il plan Heat & Ven 22:64-7+ S; 59 O '25
Mechanical ventilation wins out in Ohio; proposed change in the state building code lowering the ventilation requirements in school building defeated. Heat & Ven 22: 88-91 My '25
"The mistakes of Moses" applied to the science of ventilation. Heat & Ven 22:73-5 Mr '25
Special problems in the ventilation of school buildings. C: L. Hubbard. il diags Sanitary & Heat Eng 102:228-43+ O 3 '24; Same. Sheet Metal Worker 16:306-9 Je 5 '25
Thirty-five years contact with the heating and ventilating of the public schools of Philadelphia. J. D. Cassell. il Am Soc Heat & V E J 31:447-59 S '25
Typical school heating layout. C: L. Hubbard. diags Sheet Metal Worker 14:782-4 N 9 '23
Ventilation of school buildings; a study of present practices and costs [bibliog. p. 123-30] J: R. McLure. 130p Teachers college, Columbia univ., New York '24

Lighting

Adequate electric outlets for Denver schools. Elec W 83:244 F 2 '24
Code of lighting school buildings, American standard, approved June 16, 1924. 39p Illuminating engineering soc., Ithaca, New York '24; Same. U S Bur Labor Statistics Bul 382:1-34 '25
Code of lighting school buildings; report of the committee on lighting legislation. il diags Illum Eng Soc 19:375-410 My '24
Electrifying Denver's modern school buildings. J Elec 52:179 Mr 1 '24

SCHOOLS
Sales opportunities in the school and college market. il Sales Management 9:49-52+ Jl 11 '25

See also Colleges and universities; Corporation schools; Education; Engineering colleges; Evening and continuation schools; Mining schools and education; Public schools; Schoolhouses; Textile schools; Trade schools; *also* Avon, Old Farms; Piney Woods school; Rosemary Hall, Greenwich, Connecticut

Accounting

Current facts on city school costs. 63p National educ. assn. of the U.S., Research division, Washington '24

Medical inspection

Caring for the health of school children. Safety Eng 49:17-20 Ja '25

SCHOOLS—Medical inspection—*Continued*
Contributions of physicians to health education. H. Emerson. Nation's Health 6:402-3 Je '24
Health inspection in California schools advances. H. R. Stolz. Nation's Health 7:611-12 S '25
Results of medical inspection in Cleveland public schools. L. W. Childs. il Nation's Health 6:159-61+ Mr '24

SCHOOLS, Open air
Theodore Potter fresh air school. il Nation's Health 6:715-16 O '24

SCHOOLS as social centers
Remodeled school becomes a perfect center. plan Nation's Health 7:275 Ap '25

SCHOOP process. See Metal coating

SCHOTTKY'S formula
Schottky's method of determining the distribution of velocities among thermionic electrons. C. Davisson. Phys R 25:808-11 Je '25

SCHRAFFT stores
Decorative treatment of the Schrafft stores. C: E. Birge. il Arch Forum 40:261-3 Je '24

SCHROT effect. See Shot effect

SCHULZE'S law
Adsorption and Schulze's law. H. B. Weiser. J Phys Chem 29:955-65 Ag '25
Studies in adsorption; a new interpretation of the Schulze-Hardy law and the importance of adsorption in the charge reversal of colloids. N. R. Dhar, K. C. Sen and S. Ghosh. J Phys Chem 28:457-74 My '24

SCHWAB, Charles M.
Action by United States government against Bethlehem steel corporation growing out of war-time contracts—action by Bethlehem against government. Comm & Fin Chr 120:2224-6 My 2 '25
War controversy taken to court; Bethlehem corporation and government file suits. Iron Age 115:1189-91+ Ap 23 '25

SCHWEITZER, Nathan
At 14 he did $20,000 business; now he tops his business. W: A. McGarry. por Forbes 16:247-8+ Je 1 '25

SCIENCE
American science and American industries. M. I. Pupin. Chem Age 32:437-8 N '24
Appeal of science to the community. A. Findlay. Chem Age (Lond) 13:396 O 17 '25
Chats on science. E. E. Slosson. 273p Century co. '24
Elements of general science. O. W: Caldwell and W: L: Eikenberry. new ed. 455p Ginn '24
Everyday problems in science. C: J. Pieper and W. L. Beauchamp. 600p [bibliog. p. 513-73] Scott, Foresman & co., Chicago '25
Fifth estate. A. D. Little. Ind & Eng Chem 16:1105-10 N '24; Same. J Fr Inst 198:599-614 N '24; Same cond. Chem & Met Eng 31:535-8 O 6 '24
Foibles and fallacies of science. D. W. Hering. 300p Van Nostrand '24
General science. W: H: Snyder. 591p [bibliog. p.584-9] Allyn & Bacon, Boston, New York '25
Keeping up with science. E. E. Slosson. 355p Harcourt '24
Makers of miracles. F. W. Parsons. W Soc E J 30:96-107 Mr '25
Methods of science. Engineering 118:865-6 D 26 '24
Our physical world. E. R. Downing. 367p Univ. of Chicago press '24
Pages of science. G: Sampson, ed. 147p Methuen & co., London '22
Pocket guide to science; a book of questions and answers. E: E. Free. 284p Popular science monthly, New York '23
Qu'est-ce, au fond, que la science? C: E. Vouillemin. 404p A. Michel, Paris '24
Readings in science. J: A. Lester, ed. 179p Houghton '25
Science and civilization. F. S. Marvin, ed. 350p Oxford '23
Science and the modern world. A. N. Whitehead. 296p Macmillan '25
Science, religion, and workshop. Lord Leverhulme. Soc Chem Ind J 43:242-50 Jl 25 '24

See also Astronomy; Bacteriology; Biological chemistry; Biological physics; Botanical chemistry; Chemistry; Crystallography; Geology; Mathematics; Medicine; Metallography; Meteorology; Microscope and microscopy; Mineralogy; Optics; Physics; Scientific research; Technology

Bibliography

Reference list of library books on science for high schools, junior colleges, and community centers. 54p Univ. of Michigan, Ann Arbor '23

History

Early science in Oxford. R. W: T. Gunther. 2v Oxford '23
Modern views of physical science. E. Hendrick. 153p Franklin inst., Philadelphia '25
Science and scientists under Napoleon I. A. R. Pearson. Soc Chem Ind J (Chem & Ind) 43:243-7 Mr 7 '24; Same. Paper 33:9-12 Ap 3 '24

Methodology

Essentials of scientific method. A. Wolf. 160p Macmillan '25

Periodicals

Catalogue of scientific periodicals in Canadian libraries. G. R: Lomer and M. S. Mackay. 225p McGill univ., Montreal '24
World list of scientific periodicals published in the years 1900-1921. W. A. Smith and L. A. Sheppard, comps. Oxford '25

Study and teaching

Industry as a career for scientists. A. Pickles. Chem Age (Lond) 10:441-2 Ap 26 '24
Syllabus in general science. Univ of the State of New York Bul 821:1-89 [bibliog. p. 81-9] '25
Teaching of science and the science teacher. H. Brownell and F. B. Wade. 322p Century co. '25
Teaching science in the schools. E. R. Downing. 185p Univ. of Chicago press '25

Bibliography

Bibliography of science teaching in secondary schools. E. R. Glenn and J. Walker. U S Bur Educ Bul 13:1-161 '25

Tables, calculations, etc.

International critical tables of numerical data of physics, chemistry and technology prepared under the auspices of the International research council. 15p National research council, Washington '24

SCIENCE museum. See London, England—Science museum

SCIENTIFIC apparatus and instruments
Evolution of scientific instruments. E. N. da C. Andrade. Engineering 119:407 Ap 3 '25
Instruments for automotive research. J: A. C. Warner. Soc Auto Eng J 16:468-70 Ap '25; Discussion. 16:609-17 Je '25
Recent additions to tools for research. Ind & Eng Chem 17:1014-17 O '25
Technical laboratory of the apparatus house; its functions and organization. P. E. Klopsteg. Chem Age 32:131-4 Mr '24

See also Chemical apparatus; Electric apparatus and appliances; Electric instruments; Eötvös balance; Physical instruments; Surveying instruments; Volumetric apparatus

Exhibitions

Royal society conversazione, London, July 22-25. Engineering 120:142-3 Jl 31 '25
Royal society soirée. Engineering 119:615, 644-5 My 15-22 '25; Engineer 139:541 My 15 '25; Elec R (Lond) 96:804-5 My 22 '25

SCIENTIFIC apparatus and instruments—*Cont.*
Scientific exhibits at the British Empire exhibition. il diags Engineering 120:364-5, 392, 393-4, 423-4, 517-19, 550-2, 581-2 S 18-O 2, 23-N 6 '25; Elec R (Lond) 97:84-5, 125-6 Jl 17-24 '25
Scientific instruments at the British Empire exhibition. il Engineer 137:472-3 My 2 '24

Manufacture

Cutting a lead-screw of unusual accuracy. W: Gaertner. il diag Mach 31:808-10 Je '25

SCIENTIFIC education
Fellowships and scholarships for advanced work in science and technology. Nat Research Council Bul v 7, pt 2:1-94 N '23
Making of a compleat chymist. H: E. Armstrong. Soc Chem Ind J (Chem & Ind) 43: 1077-80, 1100-3 O 31-N 7 '24

See also Chemical education; Science—Study and teaching

SCIENTIFIC libraries
Patent office scientific library. M. O. Price. Special Lib 15:127-30 Je '24

SCIENTIFIC management. See Industrial management; Time study

SCIENTIFIC research
American science and American industries. M. I. Pupin. Chem Age 32:437-8 N '24
Can anybody do these things cheaply? the unfinished jobs of science. E. E. Free. il Nation's Business 12:36-8 Je '24
Chemical history told in correspondence, legality of private control of dissemination of public scientific information. Chem Age 32:1-5 Ja '24
Contribution of science to manufacturing. A. D. Little. Ann Am Acad 119:1-9 My '25
Co-ordination of research. Engineering 118: 586-7 O 24 '24
Evaluation of the system of central financial control of research in state governments. L. D. White. bibliogs chart Nat Research Council Bul v 9, pt 2:1-134 D '24; Summary. (Reprint and Circ. Ser. 61) 16p 25c National research council, 1701 Massachusetts av., Washington, D.C. '25
Fact collecting versus research. T. S. Harding. Chem Age 32:257-8 Je '24
Give scientific research a fair trial. A. Oberle. Chem Age 32:453 N '24
Institute of research of Lehigh university. C. R. Richards. J Eng Educ 15:437-46; Discussion. 446-53 F '25
Parliament and export trade development; the part that science might play. A. G. Church. Chem Age (Lond) 10:561-2 My 31 '24
Profession of scientific research. Engineering 120:234-5 Ag 21 '25
Profitable science in industry. D. T. Farnham and others. 291p Macmillan '25; Review. Nation's Business 13:80+ O '25
La propriété scientifique. F. Ruffini. Chimie & Ind 10:968-80, 1163-85 N-D '23
La propriété scientifique; définition et mesures proposées pour sa protection. P. Loyer. Génie Civil 84:280-3 Mr 22 '24
Protection of scientific discoveries; Ruffini report. Chem Age 32:201-2 Ap '24
Publication of research. E. W. Allen. Pub Roads 6:69-72 Je '25; Same. Munic & Co Eng 69:45-51 Jl '25
Les recherches scientifiques pour la défense nationale. Picheral and Granderye. Chimie & Ind 13:1038-43 Je '25
Report, 8th annual, of the Department of scientific and industrial research, Aug. 1, 1922-July 31, 1923. Engineering 116:551-2, 582-4, 657-8, 740-1, 793-5 N 2-9, 23, D 14, 28 '23
Report of the committee of the Privy council for scientific and industrial research for the year 1923-24. Engineer 138:384-5 O 3 '24; Engineering 118:522-3 O 10 '24; Elec R (Lond) 95:593-4 O 17 '24; Chem Age (Lond) 11:369-70 O 11 '24
Report of the committee of the Privy council for scientific and industrial research for the year 1924-25. Engineer 140:436-7 O 23 '25; Elec R (Lond) 97:652-3 O 23 '25; Gas J (Lond) 172:233-4 O 28 '25; Engineering 120: 727, 789-91 D 11, 25 '25
Research and industry J. T. Dunn. Chem Age (Lond) 11:553 N 29 '24
Research as related to patents and patent litigation. H. C. Bierman. Elec J 21:369-73 Ag '24
Research situation a criterion of national stability. H. H. Hodgson. Soc Dyers & Col J 40:393-7; Discussion. 397-9 D '24
Research twenty-five years ago and now. W. R. Whitney. Elec W 84:599-600 S 20 '24
Reward of scientific discovery. Engineering 117:114-15 Ja 25 '24
Science and business. J: J. Carty. (Reprint & Circ. Ser. 55) 8p '24 20c National research council, 1701 Massachusetts av, Washington, D.C. Excerpts. Pub Serv Management 37: 70-1 S '24
Scientific dry-rot. T. S. Harding. Chem Age 32:169-70 Ap '24
Scientific research has first aid to right advertising. J: G. Bowman. Ptr Ink 129:3-4+ O 30 '24
Stimulation of research and invention. D. S. Jacobus. J Fr Inst 200:249-53 Ag '25
Technisch-wissenschaftliche forschung in den Vereiningten Staaten von Amerika. A. Nägel. Zeit Ver Deutsch Ing 69:613-18 My 9 '25
Trend and purpose of modern research. H. E. Howe. J Fr Inst 199:187-202 F '25
Über wissenschaftliche arbeit und forschung in der maschinenindustrie. G. Lippart. Zeit Ver Deutsch Ing 68:89-93 F 2 '24

See also Aeronautic research; Ceramic research; Chemical research; Electric research; Engineering research; Foundry research; Government research; Industrial research; Laboratories; Metallurgical laboratories; Metallurgical research; Microscope and microscopy; Petroleum research; Scientific libraries; Textile research; *also* Masaryk academy of work, Prague; Massachusetts institute of technology—Research laboratory of applied chemistry; National research council; United States—Standards, Bureau of

SCIENTISTS
Beacon lights of science. T. F. Van Wagenen. 444p Crowell '24
Makers of science; mathematics, physics, astronomy. I. B. Hart. 320p Oxford '23
Six great scientists. M. Avery. 100p Methuen & co., London '23

SCLEROSCOPE
Shore swinging-arm scleroscope and automatic actuator. il Mach 31:241 N '24; Chem & Met Eng 31:549-50 O 6 '24; Iron Age 114: 992 O 16 '24

SCOOP wheels
Verbesserung der schaufelradwirkung bei schleppschiffen. diags Zeit Ver Deutsch Ing 68:1246 N 29 '24

SCOPES trial. See Evolution controversy

SCORIA
Scoria blocks replace brick in sewers. diag Eng N 92:777 My 1 '24

SCOTCH tweed
Scotch tweed designing. il Textile World 64: 3447+; 65:109+ D 8 '23, Ja 5 '24

SCOTLAND
Peculiarities of the Scotch market for American goods. il Sales Management 7:1282+ Jl '24

See also Electric plants (central stations)—Scotland; Gas industry—Scotland; Housing—Scotland; Land tenure—Scotland; Unemployment—Scotland

SCOTT-Still engine. See Still engine

SCOURING compounds
United States government specification for scouring compounds for floors and soap scouring compounds. U S Bur Stand Circ 131:1-5 '23

SCRANTON lace company
Scranton lace company, a factory with its own coal mine. R: Barclay. il Am Ind 24: 33-5 My '24

SCRANTON lace company—*Continued*
Utopia founded in Scranton. R: Barclay. il Forbes 14:548-50 Ag 1 '24

SCRAP material
Making the most of waste materials. R. S. Emmet. il Factory 33:340-2+ S '24
Proper handling of salvage, waste and obsolete material; report of committee of Pacific coast electrical association. J Elec 52: 393-4 Je 1 '24
Saving money from scrap materials. Ind Management (Lond) 10:242-3 N 1 '23
Think of your scrap in terms of productive labor. L. C. Morrow. Am Mach 63:41-4, 139-42 Jl 9, 23 '25
Ways of selling scrap. Iron Age 116:1199 O 29 '25

See also Electric railroads—Scrap material; Railroads—Scrap material; Refuse, Utilization of; Rubber waste; Scrap metal; Salvage (waste, etc.); Waste; Waste paper; Waste products; Wood waste

SCRAP metal
Bad castings and furnace scrap. H. H. Hopkins. Iron Age 116:1252-3 N 5 '25; Discussion. 116:1399, 1545 N 19, D 3 '25
Badly kept costs rise to plague scrap industry. E. C. Barringer. il Iron Tr R 76: 502+ F 19 '25
China—market for waste products. G: S. Herrick. map Iron Age 116:67-9 Jl 9 '25
Compare stoveplate and machinery scrap. G. A. Drysdale. Foundry 52:257 Ap 1 '24
Conservation of scrap iron and steel. G. E. Eddins. Comm M 7:21-7 Je '25; Same. Blast F & Steel Pl 13:295-7 Jl '25
Dismantling old stacks by blasting. J. R. Briggs. il Iron Tr R 75:484-6 Ag 21 '24
$15,000,000 salvaged by Ford plants. G: E. Hagemann. il Management & Adm 9:557-60 Je '25
Heavy scrap tonnage in idle ships. Iron Age 115:1565-6 My 28 '25
Makes steel from unselected scrap. S. H. Bunnell. diag Iron Tr R 77:559 S 3 '25
Making low cost iron castings from iron borings. H. C. BeMent. Iron Tr R 77:626-7 S 10 '25
Making scrap use conform to supply. J. Michaels. Iron Tr R 75:1639-40 D 18 '24
Melting scrap direct in the foundry. H: C. Deterding. Metal Ind 22:275 Jl '24
Philadelphia scrap prices, 1903 to 1923. Iron Age 113:87 Ja 3 '24
Philadelphia scrap prices, 1904 to 1924, delivered Eastern Pennsylvania. Iron Age 115: 77 Ja 1 '25
Richest scrap store in country at St Louis. G: H. Manlove. Iron Tr R 75:sup14-15 Ag 21 '24
Salvaging hulls of battleships. C: A. Barnes. il Iron Tr R 74:932-4 Ap 3 '24; Same. Marine R 54:330-2 Ag '24
Salvaging scrap in Cadillac plant. il Iron Age 112:1571-4 D 13 '23
Scrap metals, study of iron and steel old material, its preparation and markets. G: H: Manlove. 2d ed. 275p Penton pub. co. '25
Scrap prices at Chicago, 1905 to 1923. Iron Age 113:86 Ja 3 '24
Scrap prices at Chicago, 1905-1924. Iron Age 115:76 Ja 1 '25
Scrap problem in the small plant. R: C. Daniels. il Factory 34:414-16+, 615-18+ Mr-Ap '25
Scrap trade becomes industry. W. V. Phillips. Iron Tr R 75:1158+ O 30 '24
Sheet steel fabrication. S. Smith. il Soc Auto Eng J 17:389-97 O '25; Same, without il. Am Mach 63:543-5 O 1 '25
Signs and sign posts made from scrap. il diag Sheet Metal Worker 15:453+ Jl 4 '24
Smelting secondary aluminum and aluminum alloys. R. J. Anderson. Metal Ind 23:10-12 Ja '25
Use of scrap conserves raw materials. E. J. Lowry. Iron Tr R 75:1299-1301 N 13 '24; Abstract. Engineering 118:806 D 12 '24
What becomes of the chips? C. J. Priebe. il Am Mach 60:361-3 Mr 6 '24
Why steel scrap prices act as a forecaster. C. P. Fuller. Annalist 26:211-12 Ag 21 '25
Winter scrap most turbulent. E. C. Barringer. Iron Tr R 76:977+ Ap 9 '25

See also Bundling machines, Scrap metal; Electric railroads—Scrap material; Metal waste; Railroads—Scrap material; Rails, Used; Salvage (waste, etc.)

Specifications

Iron and steel scrap specifications for use by blast furnaces, steel plants and foundries. Blast F & Steel Pl 13:115-19 Mr '25; Same abr. Iron Age 115:137 Ja 8 '25
Mill scrap specifications submitted. Iron Age 115:1626-7 Je 4 '25
Specifications for scrap and purchase contracts for scrap and conveying equipment considered at meeting of National association of purchasing agents. Iron Tr R 76: 1498-9 Je 4 '25; Iron Age 115:1743 Je 11 '25

Standards

Old metals standard classification adopted by National association of waste material dealers, effective from July 1, 1925. Brass W 21:248-9 Jl '25; Same abr. Metal Ind 23: 327-8 Ag '25

SCRAP metal bundling machines. See Bundling machines, Scrap metal

SCRAPERS
Loading device for slushing. I. W. Farrand. il diags plan Eng & Min J 117:531-2 Mr 29 '24
New type heavy scraper on Chicago park job. il Eng & Contr (G C) 64:447-8 Ag 19 '25
Use of scrapers in narrow veins. A. S. Winther. diags plan Eng & Min J 118:618-19 O 18 '24

See also Road scrapers

SCRAPING (metal work)
Scraping cast iron. F. J. Dittmar. diag Am Mach 63:481 S 17 '25; Discussion. E. Rector. 63:593-4 O 8 '25

SCRAPING machines (metal work)
Anderson scraping machine. il Mach 30:653 Ap '24

SCREENING
How much does screen testing mean? R. B. Ladoo. il Chem & Met Eng 31:623-6 O 20 '24

See also Coal screening; Coke screening; Sewage disposal—Screening

SCREENING machines
Gyro-sifter. il Chem & Met Eng 31:668 O 27 '24

SCREENS
Cleaner water for factory uses. il Factory 34:284-5+ F '25
Cleaning circulating-water intake screens. R. D. Gillespie. Elec W 84:1112 N 22 '24
Equipment for difficult screening, moto-vibro screen. L. H. Sturtevant. il Chem & Met Eng 29:1063 D 10 '23
Equipment for screening various materials; Leahy no-blind screen. il Chem & Met Eng 29:932 N 19 '23
Fixing a circulating water screening plant. il diags Engineer 139:224 F 20 '25; Same Eng & Contr (W W) 63:1297-8 Je 10 '25
How safety device was installed in drive of traveling screens. E. George. diag Power 60: 1028 D 23 '24
Intake shaft and screen house for Portland water district. C: B. Mitchell. il diags Eng N 93:514-15 S 25 '24
New form of pulp screen differs from usual type. diags Paper 35:330 D 11 '24
Revolving screens for mine use. Eng & Min J 120:689 O 31 '25
Screen sizing of coal, ores and other minerals. E. A. Holbrook and T: Fraser. il diags U S Bur Mines Bul 234:1-140, pl 1-23 '25
Screening problem. il Brick & Clay Rec 67: 338-41 S 1 '25

SCREENS—*Continued*
Self-cleaning water screen. il Power Pl Eng 29:960 S 15 '25

See also Coal screening; Coke screening; Sewage disposal—Screening; Sieves

Manufacture

Production of perforated metalware. il diags Iron Age 113:701-5 Mr 6 '24

Standards

La standardisation des tissus métalliques; unification des diagrammes de broyage. C. Ratel. diags Chimie & Ind 12:16-30; 13:552-9 Jl '24, Ap '25

SCREENS (church decoration)
Emerson prize competition—a chapel screen; student work, Beaux-arts institute of design. Am Arch 126:259-62 S 10 '24

SCREENS, Door and window
Modern screen-making spells profits. il Bldg Age 47:143+ My '25

SCREW machines
Assembly and details of Francis Curtis' straight-line automatic screw machine (1871). G. Hubbard. diag Am Mach 61:197 Jl 31 '24
Brown & Sharpe automatic screw machines. diags Am Mach 61:814-15 N 20 '24
Cleveland multiple-spindle automatic. il Mach 30:895-7 Jl '24; Am Mach 61:35-6 Jl 3 '24; Iron Age 114:18-19 Jl 3 '24
Cleveland 1½-in. multiple-spindle automatic screw machine. il Am Mach 62:363-4 F 26 '25; Automotive Ind 52:312-13 F 19 '25; Iron Age 115:616 F 26 '25; Mach 31:573-4 Mr '25
Cleveland three-speed head for screw machine. il Iron Age 113:158 Ja 10 '24
Davenport 5-spindle one-second automatic screw machine. il Am Mach 63:714-17 O 29 '25; Automotive Ind 53:746-7 O 29 '25; Mach 32:241-2 N '25
Designing cams for automatic screw machines. I. Svidlo. diag Am Mach 59:812-13 N 29 '23
Development of machine tools in New England; Christopher M. Spencer and the invention of the automatic screw machine. G. Hubbard. il Am Mach 61:313-16 Ag 21 '24
Extremely rigid tool set-up for Foster screw machine. I. F. Yeoman. il diags Am Mach 62:746-7 My 7 '25
For the hand screw machine. il Sci Am 129: 397 D '23
Group premium for an automatic screw machine department. L. J. Houlihan. Management & Adm 10:281-4 N '25
High-speed cutting of brass and other soft metals in standard machine tools. L. D. Burlingame. il diags Mech Eng 47:705-11 S '25
Hopper type magazine for Cleveland automatic screw machine. il Am Mach 60:156 Ja 24 '24
"Index O" automatic screw machine. il Am Mach 60:307-8 F 21 '24; Iron Age 113:711 Mr 6 '24
National Acme five-spindle automatic. il Iron Age 113:359-60 Ja 31 '24; Mach 30:473-5 F '24
National Acme 9/16-in. model C automatic screw machine. il Am Mach 60:190-1 Ja 31 '24
Rapid screwing machine. il diags Engineering 117:77, 80 Ja 18 '24
Screw machine production calculator. Am Mach 61:26, 353, 1009 Jl 3, Ag 28, D 25 '24
Self-opening die heads for screw machines. il Ry Mech Eng 99:525 Ag '25
Specifying material for screw machine products. S. Fisher. diags Am Mach 62:225-8 F 5 '25
Vibration dampener for the screw machine. D. A. Hampson. diag Am Mach 60:64-5 Ja 10 '24

See also Forming tools

Cost of operation

Figuring automatic screw machine costs. N. D. Gaston. Ind Management 69:6 Ja '25

SCREW threads
Cutter shapes for milled and ground threads. E. Wildhaber. diags Am Mach 60:645-9 My 1 '24
Early example of rolled threads. S. J. Berard. il Am Mach 62:312 F 19 '25
Gauging of finish-ground worms by cylinders. H: E. Merritt. diags Engineer 138:162-3 Ag 8 '24
Die gewinde, ihre entwicklung, ihre messung und ihre toleranzen. G. W. Berndt. 657p [bibliog. p. 637-53] J. Springer, Berlin '25
Ground taps and screw thread fits. H. S. Beal. Mach 30:981 Ag '24
New screw-thread designation. Soc Auto Eng J 16:410-11 Ap '25
Specifying screw threads when purchasing. A. L. Greene. Management & Adm 9:277-8 Mr '25
Value of the little things. A. L. Greene. Am Ind 25:35 Ja '25
Worm grinding in the lathe. J. W. Armour. il diags Mach 30:859-60 Jl '24

See also Pipe threads; Thread cutting

Standards

American standard screw threads. diags Am Mach 61:383-7, 421-2, 457-60 S 4-18 '24
Extra-fine thread fits recommended. Soc Auto Eng J 16:592-4 Je '25
Recent action by the American engineering standards committee. Mech Eng 46:641 O '24
Report of the national screw thread commission revised, 1924. diags U S Bur Stand Misc Pub 61:1-172 '25
Screw-thread fits recommended; S. A. E. standards. Soc Auto Eng J 16:34 Ja '25; Automotive Ind 52:155-6 Ja 22 '25; Discussion. Soc Auto Eng J 16:159 F '25
Screw-thread standard discussed. Soc Auto Eng J 16:412-13 Ap '25
S.A.E. screw-threads division report. Soc Auto Eng J 14:49-53, 638-9; 17:151-2 Ja, Je '24, Ag '25; Discussion. 15:29-30; 17:152-4 Jl '24, Ag '25
Standard thread systems; reference-book sheet. Am Mach 63:163 Jl 23 '25
Standardization of screw threads for fire hose. Monthly Labor R 19:443-4 Ag '24; Management & Adm 8:176 Ag '24
Standardization of screw threads; report of committee on locomotive design and construction, A.R.A. Ry R 77:60-1 Jl 11 '25
Tap-drill reference tables. Soc Auto Eng J 14: 578-80; 16:42-3 Je '24, Ja '25; Discussion. 16:159 F '25
Thread dimensions and tap drill sizes; data sheet. Mach 31:186a, 270a N-D '24
Threading tool and gage forms for the new screw thread standard. R. E. Flanders. il diags Am Mach 61:481-6 S 25 '24

Terminology

American standard screw threads. Am Mach 61:383-4 S 4 '24

Testing

Device for testing a leadscrew in place. J. Williams. il Am Mach 61:547 O 2 '24
Gaging the fit of screw threads. F. H. Rauh. diag Mach 31:792 Je '25
Screw thread lead tester and comparator. il Iron Age 113:1872 Je 26 '24
Zeiss thread-measuring instruments. il diags Am Mach 62:861-2 My 28 '25; Iron Age 115: 1783-4 Je 18 '25; Automobile Eng 15:232-3 Jl '25

SCREWDRIVING machines
Black & Decker no. 3 electric screwdriver. il Am Mach 60:71 Ja 10 '24
Hisey friction-head screwdriver. il Mach 31: 250 N '24

SCREWS
Economy in ordering screws. P. H. McCain. diags Am Mach 62:534 Ap 2 '25
Power screw-setting device. H: Densmore. il Am Mach 61:585 O 9 '24
Practical remedy for set screw troubles. E. H. Goff. il Nat Safety N 11:15 Mr '25
Self-tapping steel screws now used extensively. il Automotive Ind 53:450 S 17 '25

SCREWS—*Continued*
Standard pitches for machine screws. Mach 31:56 S '24

See also Screw machines; Screw threads; Thread cutting

Manufacture

Cutting a lead-screw of unusual accuracy. W: Gaertner. il diag Mach 31:808-10 Je '25
Kent capscrew-pointing and shaving machine. il Am Mach 62:596 Ap 9 '25; Iron Age 115: 1047 Ap 9 '25; Mach 31:741 My '25
Large scale screw machine output. L. S. Love. il Iron Age 116:475-6 Ag 20 '25
Specifying material for screw machine products. S. Fisher. diags Am Mach 62:225-8 F 5 '25

SCROPHULARIA
Ilysanthes, scrophularia and linaria; a morphological study. T. Holm. bibliog il Am J Sci 5th ser 8:395-410 N '24

SCULPTURE
Ivan Mestrovic, sculptor-architect; Racic mortuary chapel near Ragusa. K. Parkes. il Arch Rec 57:173-85 F '25

See also Garden ornaments and furniture; Memorials; Pediments; Photosculpture; Statues; Stone Mountain monument

SCULPTURE, Primitive
Animal sculpture of 25,000 years ago; the recent discoveries in the water-blockaded French cavern of Montespan. il Sci Am 130: 92 F '24

SCURVY
Antiscorbutic potency of whole-milk powder. G. W. Cavanaugh, R. A. Dutcher and J. S. Hall. bibliog charts Ind & Eng Chem 16: 1070-3 O '24

SEA chests
Sea chests. diags Marine Eng 30:115-17, 533 F, S '25

SEA ISLAND cotton. See Cotton

SEA level
Pleistocene changes of level. R. A. Daly. Am J Sci 5th ser 10:281-313 O '25

SEA level, Determination of
Datum planes—their determination for engineering uses. H. A. Marmer. Eng N 95:98-100 Jl 16 '25

SEA power
Blockade and sea power. M. F. Parmelee. 449p Crowell '24

See also Disarmament; Navies; Warships

SEA salt. See Salt—Manufacture

SEA walls

See Breakwaters; Docks; Harbors; Jetties; Wharves

SEA walls, Concrete
China Basin terminal; pre-cast concrete caissons connected by curved curtain walls form combined sea wall and wharf. C: W. Geiger. il Pub Works 55:26-8 Ja '24
Ocean Beach esplanade, San Francisco, California. M. M. O'Shaughnessy. il map Am Soc C E Pro 49:1846-59, pl 8-9 N '23; Discussion. 50:223-5, 351-72, 526-8, 653-6 F-My '24
Repairing sea wall. il diag Eng & Contr (G C) 64:631-2 S 16 '25
Seawall retains picturesque California highway. H. D. Miller. il diag Eng N 95:720-1 O 29 '25
Shingle beaches and the wear of concrete. J: S. Owens. il Engineer 138:157-8 Ag 8 '24
Substructure for $50,000,000 plant in a bog. F. W. Skinner. il diag Eng & Contr (G C) 63:1321-4 Je 17 '25

SEA water
Accelerated corrosion tests of copper-zinc alloys by salt spray. W. H. Bassett and H. A. Bedworth. Ind & Eng Chem 17:346-8 Ap '25
Accurate determinations of the speed of sound in sea water. M. A. Eckhardt. Phys R 24:452-5 O '24
Another idle ship goes to work; the steamship Ethyl to extract bromine from the sea. il Marine R 55:197 My '25
Control of sea water flowing into the Lake Washington ship canal. E. V: Smith and T: G. Thompson. il diag map Ind & Eng Chem 17:1084-7 O '25
Corrosion of Muntz metal in sea water. W. Donovan and T. E. Perks. il Soc Chem Ind J 43:72-5 Mr 28 '24
Deterioration of structures in sea water. Can Eng 49:484 O 20 '25
Ethyl gasoline corp. seeks bromine in sea. Oil Paint & Drug Rep 107:67 Mr 30 '25
La fabrication du sel marin aux marais salants du Midi de la France. A. Lambert. Chimie & Ind 10:1007-12 D '23
Resistance of various aluminum alloys to salt-water corrosion. D. Basch and M. F. Sayre. il Mech Eng 46:199-201; Discussion. 201-5 Ap '24
Salt error of cresol red. W: D. Ramage and R. C. Miller. Am Chem Soc J 47:1230-5 My '25
Salt from sea water. A. W. Allen. il Chem & Met Eng 29:1131-5 D 24 '23
Sea water damages structures. Can Eng 46: 163-4 Ja 22 '24
Ship fitted out to extract bromine from sea water for ethyl gas. il Automotive Ind 52: 792-3 Ap 30 '25

See also Concrete, Effect of sea water on; Marine structures; Steel, Effect of sea water on

SEABOARD air line railway
Division disbursement accounting on S. A. L. L. L. Knight. Ry Age 77:287-92 Ag 16 '24
Hearing on proposed new Seaboard lines in Florida; statement of S. Davies Warfield. Ry Age 79:648-50 O 10 '25
Report for 1923. Ry Age 76:1119-21 My 3 '24; Same. Comm & Fin Chr 118:2193-5 My 3 '24
Report of the directors for the fiscal year ended December 31, 1924. Ry Age 78:1185-6 My 9 '25; Same. Comm & Fin Chr 120:2445-6 My 9 '25
Seaboard air line securities. Moody's Inv Serv 16:109 Mr 6 '24

Library

Traveling library of Seaboard air line. Special Lib 16:59 F '25

SEABURY, George Tilley
New secretary of A.S.C.E. por Mech Eng 47:73 Ja '25

SEALING tape. See Paper, Gummed

SEALY, Thomas
Thomas Sealy—dean of naval stores business. B. N. Harison. por Am Exporter 94:23-4 Ja '24

SEAMEN
Captain must hold alien seamen. F. B. Pletcher. Marine R 54:396-7 O '24
Great Lakes shipowners develop model welfare plan. G: A. Marr. Marine Eng 29:393-6 Jl '24
Liability of Emergency fleet corporation for injury to seamen. Monthly Labor R 21:163-5 Jl '25
Matson navigation company adopts continuous service bonus system for its employees afloat. Marine Eng 29:329-31 Je '24
Ocean credit union formed by marine engineers. B. L. Todd. Marine Eng 29:6-7 Ja '24
Safeguarding the lives of lake seamen. G: A. Marr. Marine Eng 29:640-1 N '24
Savings plan of the Lake carriers' association. G: A. Marr. Marine Eng 29:271-2 My '24
Shipping. 64p Labour publishing co., ltd., London '24
Statutory rights of seamen to recover for personal injuries. Monthly Labor R 19:664-6 S '24
Wage demands of British seamen granted. W. H. Wendon. Marine Eng 29:485-6 Ag '24
Wages of seamen, January 1, 1924. Monthly Labor R 20:1039 My '25

SEAMEN—*Continued*
What the Y.M.C.A. is doing for merchant seamen. il Marine Eng 29:207-8+ Ap '24
See also Lightermen; Merchant marine; Ships—Manning;

SEAMING machines
Tank head seamer. W. Scholl. diags Sheet Metal Worker 15:609-10 Ag 29 '24
Yoder pipe seaming machine. il Sheet Metal Worker 16:705+ O 23 '25

SEAPLANES
Airmanship at sea. R. B. Maycock. Roy Aeronautical Soc J 28:450-62; Discussion. 462-74 Jl '24
British marine aviation. il Engineer 140:399-400, 406 O 16 '25
Catapulting and receiving. il Sci Am 132:123 F '25
Development in naval aeronautics. H. C. Richardson. il diags Soc Auto Eng J 15: 412-17 N '24; Discussion. 16:361-6 Mr '25
How the modern seaplane was born. J. C. Hunsaker. Aviation 18:154 F 9 '25
Large all-metal seaplanes. Rohrbach. il diags Roy Aeronautical Soc J 28:655-72; Discussion. 672-5 D '24
Launching of aircraft from ships. L. J. Wackett. Roy Aeronautical Soc J 27:553-6 N '23
Lessons of the Pacific flight. A. Klemin. il Sci Am 133:340-1 N '25
Making a seaplane self-contained. il Sci Am 133:60-1 Jl '25
Metal seaplane floats are best. Soc Auto Eng J 15:375-6 N '24
Navy-Curtiss racer averages 227.5 miles per hour. il Aviation 17:1131 O 13 '24
New French experimental seaplane. diags Aviation 19:97 Jl 27 '25
Schneider cup seaplane race. il Aviation 19: 547-9, 620-8 O 19, N 2 '25
Super seaplanes. Sci Am 132:124-5 F '25
Supermarine-Napier monoplane. il Aviation 19:438 O 5 '25
U.S. loses many seaplane records. Aviation 18:382 Ap 6 '25
See also Flying boats; Hydroplanes; Supermarine aviation works, limited

Design
Design of marine aircraft in relation to seaworthiness. D. F. Lucking. Roy Aeronautical Soc J 27:535-51; Bibliography. 551-2 N '23
Schneider cup race shows great progress made in seaplane design. A. F. Denham. il Automotive Ind 53:770-2 N 5 '25

SEAPORTS. See Ports

SEARCHLIGHT towers
Army engineers build disappearing searchlight towers. E. D. Cummings. il Eng N 92:227-9 F 7 '24
Disappearing searchlight towers. il Sci Am 130:387 Je '24

SEARCHLIGHTS
Studies in the projection of light. F. Benford. diags Gen Elec R 27:504-10 Ag '24

SEARLES lake
Borax; its recovery by solar evaporation. A. W. Gauger and H. W. Storch. il Chemicals 23:4-5 Je 8 '25

SEARLESITE
Crystallography of searlesite. A. F. Rogers. diags plan Am J Sci 5th ser 7:498-502 Je '24

SEARS, Roebuck and company
New Sears, Roebuck copy mirrors 1924 mail-order trends. D. Hubbard. Ptr Ink 126:17-19 Mr 13 '24
Sears-Roebuck retail stores planned to increase mail order sales. Sales Management 8:454 Mr 21 '25
Sears, Roebuck to develop over-the-counter trade. Ptr Ink 129:86 D 25 '24
Sears Roebuck to teach farmer lesson of marketing. C. M. Harrison. Ptr Ink 125:53-4+ D 6 '23
Why you can't do too much for customers. J. Rosenwald. il System 46:709-12+ D '24

SEASHORE
La cure marine et l'héliothérapie marine. G. Baudouin. Génie Civil 85:22-3 Jl 5 '24
Kingdom of the tides. R. W. Miner. il Sci Am 133:5-7 Jl '25

SEASON cracking. See Metals—Season cracking

SEASONAL industries
Candy maker takes up the dull season slack. Ptr Ink 133:152+ O 29 '25
How International harvester is making sales in off-season. R. Davis. Ptr Ink 125:100-1 N 15 '23
How to compensate salesmen in seasonal lines. J. A. Worsham. Ptr Ink M 10:45-6 Je '25
How we made our money go twice as far in financing sales. G: R. Meyercord. Sales Management 7:1337-8+ Ag '24
How we stabilized production; Hills brothers company. E. G. Draper. Ptr Ink M 11:19-20+ O '25
Increase in winter buying of cast-iron pipe. R. R. Silver. Eng N 92:468 Mr 13 '24
Keeping up with the calendar. E. Dakin. Comm & Fin 14:1711-12 S 9 '25
1,500 stores close out this line the first of September. Ptr Ink 128:77-8 S 25 '24
Putting new life into an old business; Devoe & Raynolds co. J: A. Murphy. Ptr Ink 131: 3-4+ Je 18 '25
Why we hire and keep the highest-waged workers in a seasonal business. P. Salkin. il Factory 32:651-2+ My '24
See also Summer business; *also* names of seasonal industries and products, e.g. Building trades; Coal trade; Heating industry; Ice industry; Toys

Accounting
Costs in a seasonal business. J Account 39: 229-33, 409-23 Mr, My '25
Determining the selling price of machine tools; figuring costs on five-year averages. H. R. Simonds. Iron Tr R 75:35-8 Jl 3 '24

Advertising
Advertising helps prevent unemployment. R. Dickinson. Ptr Ink 132:121+ Ag 27 '25
Seasonal advertiser can advertise throughout the year. M. Hastings, jr. il Ptr Ink M 9: 33+ Ag '24
See also Coal trade—Advertising; Ginger ale—Advertising; Harnesses—Advertising; Hats—Advertising; Ice cream—Advertising

SEASONAL variation (statistics)
Analysis of bank statistics for the United States. A. A. Young. charts R Econ Statis 7:19-37 Ja '25
Finding your industry's cycle. J. H. Barber. Management & Adm 8:479-86 N '24
Improved method for measuring the seasonal factor. W. W. I. King. Am Statis Assn J 19:301-13 S '24
Measurement of seasonal-variation. H. D. Falkner. Am Statis Assn J 19:167-79 Je '24
Measurement of seasonal variation. O. Gressens. Am Statis Assn J 20:203-10 Je '25
Progressive variation in seasonality. W. L. Crum. Am Statis Assn J 20:48-64 Mr '25
Seasonal variation as a relative of secular trend. L. W. Hall. Am Statis Assn J 19:156-66 Je '24

SEATS, Car. See Car seats

SEATTLE, Washington
Control of sea water flowing into the Lake Washington ship canal. E. V: Smith and T: G. Thompson. il diag map Ind & Eng Chem 17:1084-7 O '25
Why they cheered—"He built Seattle." Nation's Business 13:30 S '25
See also Skagit river power project

Harbor
Ports of Seattle, Tacoma, Bellingham, Everett, and Grays Harbor, Washington. 470p U.S. Engineer dept., Board of engineers for rivers and harbors, Washington '25

SEATTLE, Washington—*Continued*

Railroads

Plan railway and ship terminals for Seattle, Wash. maps Eng N 94:600-2 Ap 9 '25

Rapid transit

Effect of fare changes in Seattle on passenger traffic. Elec Ry J 62:825 N 10 '23

$557,243 profit at Seattle. Elec Ry J 65:908-9 Je 6 '25

Rapid transit system the only way out for Seattle. Elec Ry J 66:753 O 24 '25

Seattle municipal railway builds stadium loop extension. A. E. Pierce. il diags Elec Ry J 66:549-50 O 3 '25

Seattle net income $600,000 less. Elec Ry J 64:103-4 Jl 19 '24

Seattle paper gives the facts about city's street railway. il Pub Serv Management 38: 142-3 My '25

SEAWALLS. See Sea walls

SEAWEED

See Algae; Kelp

SECRETARIES, Private

Analysis of secretarial duties and traits. W. W. Charters and I. B. Whitley. 186p Pub. by Williams & Wilkins co, Baltimore, for National junior personnel service, inc. '24

The private secretary, the duties and opportunities of the position. E: J. Kilduff. Rev. ed. 387p Century co. '24

Secretarial training. G. L. Swiggett. U S Bur Educ Bul 12:1-33 '24

See also Oil jobbers' associations—Secretaries

SECULAR trend

Least squares criterion for trend lines. W. L. Crum. diags Am Statis Assn J 20:211-22 Je '25

Moving secular trend and moving integration. L. W. Hall. Am Statis Assn J 20: 13-24 Mr '25

SECURITIES

American dollar securities. Economist 98:88-90 Ja 19 '24

Backward industries. Moody's Inv Serv 17:261-4 Ag 6 '25

Calling a spade a spade. T: F. Murphy. 58p Securities reporting service, Detroit '23

Comparison of British and American practice in issuing investment securities. T. H. McKittrick. Harvard Business R 3:185-93 Ja '25

Corporate securities. Bankers M 110:891+ My '25

Customer ownership applied to bus line solves problem of public relations. il diag Bus Transportation 4:223-4 My '25

Financial investigations of industrials. F. G. Coburn. Harvard Business R 2:154-9 Ja '24

Foreign capital flotations in the United States (Jan.-Dec., 1923); foreign corporations (including Canadian). Moody's Inv Serv 16: 107 Mr 13 '24

Foreign securities floated in the United States in the first half of 1925. T. R. Goldsmith. Econ W n s 30:116 Jl 25 '25

Foreign securities in American markets. Details of loans and economic conditions of countries floating loans published from time to time in Annalist

Foreign securities offered in the United States during the first quarter of 1925. Econ W n s 29:587 Ap 25 '25

General investment news. Published in weekly numbers of Commercial and financial chronicle

General quotations of bonds and stocks. Published in monthly Bank and quotation section of Commerical and financial chronicle

How to make big profits in seasoned securities. J. P. Bardell. 180p Magazine of Wall Street, New York '24

Index of current security offerings. Published in weekly numbers of Annalist

Industrial and miscellaneous stocks and bonds in United States and territories, Canada, Mexico and Cuba; Railway and industrial compendium [formerly Railway, industrial and public utility section]. Comm & Fin Chr 119:131-224 sec 2 N 29 '24 [issued twice a year on the last Saturday in May and November]

Industrial and oil securities. Published in weekly numbers of Oil paint and drug reporter

Investment cycles. J: Moody. Forbes 15:830+ Ap 1 '25

Miscellaneous list of short and medium term securities. Moody's Inv Serv 17:87 Mr 12 '25

Monthly report of industrials. Published in monthly supplement to Moody's rating books of Moody's investors service

New capital flotations in December and the twelve months of the calendar year. Comm & Fin Chr 120:384-92 Ja 24 '25

New capital flotations; summary of corporate, foreign government, farm loan and municipal financing. Comm & Fin Chr 117:2263-7 N 24 '23 [continued monthly]

New York securities market. Published in weekly numbers of Bradstreet's

Obsolete securities. O. C. Klinger. 431p Oildom pub. co., inc., New York '23

Open market—domestic and Canadian securities. Published in weekly numbers of Annalist

Outlook for industrial securities. P. Gourrich. Annalist 24:669, 701 D 22-29 '24

Price of new capital. Economist 100:185-6 Ja 31 '25

Quarterly index of security offerings. Annalist 23:87-103, 433+; 24:27, 352-8; 25:79-87, 503-11; 26:38-47, 433-9 Ja 7, Ap 7, Jl 7, O 6 '24, Ja 5, Ap 6, Jl 10, O 2 '25

Report of I.B.A. industrial securities committee. Comm & Fin Chr 119:1458-9 S 27 '24

Report of marine securities committee of I.B.A. Comm & Fin Chr 119:1559-60 O 4 '24

Report of real estate securities. I B A of A 13 no 10:300-8 My 21 '25

Securities outstanding in United States. Moody's Inv Serv 16:177 My 1 '24

Security behind company's debts. H. Withers. Annalist 23:286 Mr 3 '24

Security syndicate operations. A. Galston. 95p Ronald press '25

Selecting industrial issues. J: Moody. Forbes 15:547-9+ F 1 '25

Short-term securities selling at attractive levels. Moody's Inv Serv 17:63 F 19 '25

Simple methods for detecting buying and selling points in securities. J. Liveright. 156p Magazine of Wall Street, New York '23

Stock exchange losing the race with securities. E: A. Bradford. Annalist 23:684+ Je 16 '24

Tax-exempt securities outstanding aggregate $12,309,000,000. Comm & Fin Chr 118:506 F 2 '24

Valuation of industrial securities. R. E. Badger. 188p Prentice-Hall '25

When to sell. Moody's Inv Serv 17:281-2 Ag 27 '25

See also Banks and banking—Investments; Bonds; Debentures; Electric industries—Securities; Electric railroads—Securities; Electric utilities—Securities; Gas companies—Securities; Insurance companies—Securities; Investments; Loans; Loans, Foreign; Mortgages; Municipal bonds; Oil companies—Securities; Oil promoters; Public utilities—Securities; Railroads—Securities; Steel industry and trade—Securities; Stock exchange; Stockholders; Stocks; Street railroads—Securities; Taxation, Exemption from; Trade unions—Investment funds; Treasury certificates of indebtedness; Treasury savings certificates; *also* San Francisco stock and bond exchange

Advertising

High pressure selling methods are the earmarks of questionable securities. K. Barnard. Ptr Ink 126:115-16+ Mr 6 '24

What are high pressure methods in security selling? W. E. Severance. Ptr Ink 126:111-12 Mr 6 '24

SECURITIES—*Continued*

Exemption from taxation

See Taxation, Exemption from

Law

Blue sky law enacted in state of Washington. H. E. Gregory. Am Bankers Assn J 16:405-6+ Ja '24

Blue sky laws. R. R. Reed and L. H. Washburn. Clark Boardman co., New York '24

Federal law to protect the unwary. E. E. Denison. Am Bankers Assn J 16:569-70+ Mr '24

Fraudulent practices in respect to securities and commodities. C: H. Mills. 434p W. C. Little & co., Albany, N.Y. '25

Indiana securities law interpreted. T. S. Chapman. I B A of A 13:195-212 Ap 18 '25

New York amends its blue sky law. E: I. Devlin, jr. Ptr Ink 131:61-2+ My 21 '25

Now Uncle Sam may go gunning after wildcat promoters. Ptr Ink 130:17-19 F 26 '25

Provisions of New York securities law. T. S. Chapman. I B A of A 13:353-5 Je 27 '25

Regulation of sales of securities; provisions of the act drafted by the commissioners on uniform state laws. Index p 5-6 N '24

Report of securities law committee of I B A of A with texts of various state laws. I B A of A 13 no 9:217-83 My 21 '25

Securities laws. Comm & Fin Chr 119:1463 S 27 '24

Some precedents in British law and practice for safeguarding securities. A. Ten Eyck. Harvard Business R 2:385-97 Jl '24

Virtues of blue-sky laws. J. G. Hinkle. Eng & Min J 120:696 O 31 '25

Webb-Phelps amendments to Martin blue sky act (New York) effective June 1. Comm & Fin Chr 120:2757 My 30 '25

When stock selling must have government sanction; in Pennsylvania all dealers in securities must obtain registration. Ptr Ink 128:142+ Jl 3 '24

Prices

Controlling factor of security price movements. L. P. Ayres. Comm & Fin Chr 119:1455-7 S 27 '24; Excerpt. Comm & Fin 13:1889 O 1 '24

Security price averages. Moody's Inv Serv 17:124, 164, 196 Ap 9, My 14, Je 11 '25

Printing

Look at the allegorical lady. J. H. Collins. Burroughs Clearing House 10:21-2+ O '25

Rating

Bulletin of ratings. Published in monthly supplement to Moody's rating books of Moody's investors service

Taxation

See Taxation of bonds, securities, etc.

Theft

Menace of stolen securities. E: H. Smith. il Burroughs Clearing House 9:17+ F '25

Report of business conduct committee on stolen securities. I B A of A 13:50-6 S 30 '24

Yearbooks

Government, state and municipal securities. v 1 Poor's pub. co., New York '25

Poor's quotation register; annual. Poor's pub. co., New York '24

Germany

Central European bonds and stocks. Moody's Inv Serv 17:95 Mr 19 '25

German bond values under the revaluation law. M. Rothenberger. Annalist 26:375+ S 25 '25

German mortgage bonds. Moody's Inv Serv 17:253-6 Jl 30 '25

Germany sets time for bond claims—holders here seeking share in revaluation must give notice by December 28. Comm & Fin Chr 121:1299 S 12 '25

If you own German securities. R. C. Long. Am Bankers Assn J 17:671-3 My '25

New German revaluation law as it affects mortgages, mortgage bank bonds and industrial obligations. Moody's Inv Serv 17:357-60 O 29 '25

Offering of $25,000,000 farm loan bonds of German Rentenbank (Central bank for agriculture). Comm & Fin Chr 121:1409-10 S 19 '25

See also Bonds, Government—Germany; Germany—Revaluation law

Italy

Soaring prices for Italian securities a menace. L. Castelletti. Annalist 25:189, 647-8 F 2, My 11 '25

Minnesota

Record of prices on Minnesota securities for 1924. Comm & Fin Chr 120:1141 Mr 7 '25

Netherlands

Dutch issues listed in this market. Moody's Inv Serv 17:79 Mr 5 '25

Ohio

Manual for the issuing and sale of Ohio bonds and other public securities. R. F. Denison. 2d ed. W. H. Anderson co., Cincinnati '25

Wisconsin

Record of prices on Wisconsin securities for 1924. Comm & Fin Chr 120:1140 Mr 7 '25

SECURITIES commissions

Commission charges. T. S. Chapman. I B A of A 13:355-6 Je 27 '25

SEDIMENTARY rocks. See Rocks

SEDIMENTATION and deposition

Alluvial fan deposits in the upper Huronian. G: W. Bain. il map Am J Sci 5th ser 8:54-60 Jl '24

Observations on ice-borne sediments by the Canadian and other Arctic expeditions. E. M. Kindle. il Am J Sci 5th ser 7:251-86 Ap '24

See also Particles: Silt

SEED disinfection

Copper carbonate and seed disinfection. G. P. Hitchcock. Chem Rec Age 23:23 Mr 23 '25

SEED trade

Seed house publishes its catalogue in farm paper. Ptr Ink 126:104 F 14 '24

Simplification expected to open another advertising field. Ptr Ink 132:121-3 Jl 23 '25

SEEDS

Aids the farmer coming and going. C. B. Sherman. Am Bankers Assn J 17:609+ Ap '25

Chemistry and seed treatment. M. Briscoe. Chem Age (Lond) 11:465-6 N 8 '24

SEEPAGE

Recovery of return and seepage waters in California. T. R. Simpson. diags map Eng N 93:751-4 N 6 '24

SEGOVIA, Spain

Little tour in Spain. L: La Beaume. il Am Inst Arch J 12:157-73 Ap '24

SEINE river

Les crues de la Seine en janvier 1924 et 1910; les travaux de protection exécutés à Paris et dans la région parisienne depuis 1910. A. Bidault des Chaumes. il plans map Génie Civil 84:77-82 Ja 26 '24

La démolition du barrage et de l'écluse de la Monnaie, à Paris. H. Lang. il diag plans Génie Civil 87:341-5 O 24 '25

L'emploi de puits absorbants pour atténuer les crues de la Seine. G. Claude. Génie Civil 84:70-1 Ja 19 '24

Projet de régularisation de la Haute-Seine, par dérivations du fleuve et de ses affluents dans des barrages-réservoirs. map Génie Civil 83:495-7 N 17 '23

Regulation of the river Seine. diag map Engineering 118:682-4 N 14 '24

SEISMOGRAPH

Seismograph king on Gulf. F. Ennist. Pet Age 15:54+ Mr 15 '25

SEISMOGRAPH—*Continued*
Sismographe à trois composantes, à enregistrement photographique. C: Maurain and L. Éblé. diags Génie Civil 85:197-8 Ag 30 '24
Vacuum tube oscillators record distant earthquakes. J. E. Anderson. il diags Radio N 6:660-2+ N '24
See also Geophone

SELECTIVE sectioning. See College students—Grading

SELENATES
Dissociation pressures of hydrated double selenates. J: Ferguson. Chem Soc J 127: 2096-2100 S '25
Preparation of selenic acid and of certain selenates. V: Lenher and C. H. Kao. Am Chem Soc J 47:1521-2 Je '25
Selenic acid and the selenates. V: Lenher and E. J. Wechter. Am Chem Soc J 47: 1522-3 Je '25
Some double selenates of thallous selenate and the selenates of bivalent metals. L. C. Lindsley and L. M. Dennis. Am Chem Soc J 47:377-9 F '25

SELENIC acid
Preparation of selenic acid and of certain selenates. V: Lenher and C. H. Kao. Am Chem Soc J 47:1521-2 Je '25
Selenic acid and the selenates. V: Lenher and E. J. Wechter. Am Chem Soc J 47:1522-3 Je '25

SELENIDES
ββ′-dichloro- and ββ′-dibromo-diethyl selenides and their simple halogen derivatives. H. C. Bell and C: S. Gibson. Chem Soc J 127:1877-84 Ag '25

SELENIOUS acid
Dissociation constants of selenious acid. J. S. Willcox and E. B. R. Prideaux. Chem Soc J 127:1543-6 Jl '25

SELENIUM
Change of conductance of selenium due to electronic bombardment. R. De L. Kronig. diags Phys R 24:377-82 O '24
Conditions of precipitation, by electrolytes, of selenium hydrosol and other hydrosols. J. J. Doolan. J Phys Chem 29:178-87 F '25
Crystal structure of metallic tellurium and selenium and of strontium and barium selenide. M. K. Slattery. Phys R 25:333-7 Mr '25
Crystal structures of the rhombohedral forms of selenium and tellurium. A. J. Bradley. Philos Mag 6th ser 48:477-96, pl 10 S '24
Distillation method of separating selenium from tellurium. V: Lenher and D. P. Smith. diag Ind & Eng Chem 16:837-8 Ag '24
Effect of light on the thermal conductivity of selenium. R. E. Martin. diags Phys R 26: 475-85 O '25
Effect of light on the thermo-electric power of selenium. R. M. Holmes. diag Phys R 25:826-34 Je '25
Light sensitivity of cuprous oxide and of selenium. V. P. Barton. diags Phys R 23: 337-44 Mr '24
Moon-element. E. E: Fournier d'Albe. 166p Appleton '24
Remarkable property of selenium; flameproofing of electric wires. E. C. Crocker. Ind & Eng Chem 17:163 F '25
Separation of selenium and tellurium. V. Lenher and C. H. Kao. Am Chem Soc J 47: 2454-61 O '25
Separation of selenium and tellurium by sulfur dioxide in hydrochloric acid solution. V: Lenher and C. H. Kao. Am Chem Soc J 47:769-72 Mr '25
What is the effect of selenium decolorizer on the tank blocks; discussion. H. L. Dixon and others. Am Cer Soc J (Bul) 7:332-45 S '24

SELENIUM compounds
Researches on selenium organic compounds; the preparation of a selenium derivative of cinchophen type. M. T. Bogert and H. H. Hopkins. Am Chem Soc J 46:1700-1 Jl '24
Researches on selenium organic compounds; the synthesis of benzo-bis-selenazoles and selenazolo-benzothiazoles, new heterocyclic systems. M. T. Bogert and H. H. Hopkins. Am Chem Soc J 46:1912-17 Ag '24
Selenium compounds as spray materials. F. M. Lougee and B. S. Hopkins. Ind & Eng Chem 17:456-9 My '25
Stereoisomerism of quadrivalent sulphur, selenium and tellurium. R. F. Goldstein. Soc Chem Ind J (Chem & Ind) 44:1011-12 O 16 '25

SELENIUM dioxide
Addition products of selenium dioxide with the halogen acids. C. W. Muehlberger and V: Lenher. Am Chem Soc J 47:1842-4 Jl '25
Molar weight of selenium dioxide in ethyl alcohol. E. B. R. Prideaux and G. Green. J Phys Chem 28:1273-8 D '24

SELENIUM monobromide
Preparation of selenium monochloride and monobromide. V. Lenher and C. H. Kao. Am Chem Soc J 47:772-4 Mr '25

SELENIUM monochloride
Preparation of selenium monochloride and monobromide. V: Lenher and C. H. Kao. Am Chem Soc J 47:772-4 Mr '25

SELENIUM oxychloride
Electrical conductance of selenium oxychloride solutions. A. P. Julien. diags Am Chem Soc J 47:1799-1807 Jl '25

SELENIUM tetrachloride
Action of selenium tetrachloride on di- and tri-ketones; selenium phenylacetyl- and β-phenylpropionyl-acetones. G. T. Morgan and C: R. Porter. Chem Soc J 125:1269-77 Je '24

SELENIUM trioxide
Preparation and properties of selenium trioxide and chloroselenic acid. R: R. le G. Worsley and H. B. Baker. diag Chem Soc J 123:2870-5 N '23

SELLERS, William, & co., inc.
Machine-tool builders for 77 years. F. H. Colvin. Am Mach 62:851-3 My 28 '25

SEMICARBAZIDES
Behavior of semicarbazides at elevated temperatures. E. J. Poth and J. R. Bailey. Am Chem Soc J 45:3008-12 D '23

SEMICARBAZINE
Electrolytic preparation of semicarbazine sulfate. L: J. Bircher and others. Am Chem Soc J 47:391-4 F '25

SEMICARBAZONES
Action of amines on semicarbazones. F. J. Wilson and A. B. Crawford. Chem Soc J 127:103-9 Ja '25
Action of hydrazines on semicarbazones. M. M. J. Sutherland and F. J. Wilson. Chem Soc J 125:2145-8 O '24
Reduction of semicarbazones. E. J. Poth and J. R. Bailey. Am Chem Soc J 45:3001-8 D '23
Semicarbazones of benzoin. I. V. Hopper. Chem Soc J 127:1282-8 Je '25
Stereoisomeric semicarbazones. F. J. Wilson and R. M. Macaulay. Chem Soc J 125:841-4 Ap '24

SEMI-DIESEL engines
New design of semi-Diesel engine. J. McIntosh. diag Power 60:1074-5 D 30 '24
Oil engines in rock-crushing plants. il Power 60:12-13 Jl 1 '24
Semi-Diesel operation at all load ratings. H. F. Shepherd. Power 60:366-8 S 2 '24
Small commercial marine motor design. A. F. Evans. diags Automobile Eng 13:347-51 N '23
Technique et pratique des moteurs à huile lourde à injection directe (semi-Diesel). Y. M. Le Gallou. 207p Dunod, Paris '24
28-ft. cabin cruiser Annette-Petter. il diags Engineering 120:118-19 Jl 24 '25

Lubrication
Semi-Diesel lubrication. G. Grow. Power 60:7 Jl 1 '24

SEMIOXAMAZIDE
Derivatives of semioxamazide. F. J. Wilson and E. C: Pickering. Chem Soc J 125:1152-6; 127:965-7 My '24, My '25

SEMIOXAMAZONES
Derivatives of semioxamazide. F. J. Wilson and E. C: Pickering. Chem Soc J 125:1152-6; 127:965-7 My '24, My '25

SEMI-STEEL
Makes semisteel castings. G. A. Drysdale. il Foundry 52:252 Ap 1 '24
Making semisteel castings in France. Foundry 52:734 S 15 '24; Same. Iron Tr R 75: 949-50 O 9 '24
Semi-steel. G. W. Gilderman. Blast F & Steel Pl 12:526 N '24

SEMOLINA
Extraction and estimation of lipoids in cereal products. O. S. Rask and I: K. Phelps. Ind & Eng Chem 17:187-9 F '25

SENNAR dam
Le barrage de Sennar, sur le Nil Bleu et l'irrigation de la plaine de Gezira (Haute-Égypte). il diags map Génie Civil 85:500-3 N 29 '24
Race with nature; construction of the Sennar dam, on the Blue Nile. H. J. Shepstone. il map Sci Am 132:26-7 Ja '25
Sennar dam and the Gezira irrigation scheme. il (supp) charts diags Engineer 138:348-50, 352 S 26 '24
Sennar dam on the Blue Nile. il (supp) Engineer 140:16-18 Jl 3 '25

SENSES
See Color sense; Hearing; Sight; Smell; Taste

SEPARATION
Séparation des mélanges complexes et récupération des liquides volatils. P. C: Lemale. il diags Chimie & Ind 11:657-61 Ap '24

SEPARATORS
Centrifugal dryers and separators, their construction and use. E. A. Alliott. diag Chem Age (Lond) 10:236-8 Mr 8 '24; Abstract. Mech Eng 46:357-8 Je '24
Hydraulic separation. C: L. Mantell. il diags Chem & Met Eng 29:1015-18 D 3 '23
Improved way of washing ocher. A. H. Hubbell. il diag Eng & Min J 118:336-8 Ag 30 '24
Pirbright separator. il diag Gas J (Lond) 168: 491 N 19 '24
Sharples centrifugal separating machine. il diags Engineering 119:226-8, 230 F 20 '25

See also Air separators; Centrifugal machines; Clarifiers; Classifiers; Coke separators; Distillation; Magnetic separators; Oil separators; Screens; Steam separators

SEPTIC tanks
American farms need septic tanks. il diags Dom Eng 112:16-20 Ag 1 '25
Le fonctionnement des fosses septiques, et leur réglementation en France. Colmet-Daage. Génie Civil 87:313-14 O 10 '25
How to tell what septic tank to use. Y. Adams. Sanitary & Heat Eng 101:169-70 Mr 21 '24
Sanitation in Birmingham's unsewered areas. W. A. Hardenbergh. il diags map Pub Works 56:313-16 S '25
Septic tank installations. diags Dom Eng 108: 43-4 Ag 16 '24
Septic tanks vs. Imhoff tanks. H. A. Call. diags Sanitary & Heat Eng 103:148-50 Mr 6 '25
Substitutes for sewerage. Pub Works 56:316 S '25
Tests at Lawrence experiment station of household septic tanks. Eng & Contr (W W) 61:117 Ja 9 '24
Tests on household septic tanks. H. W. Clark. Eng & Contr (W W) 63:1250 Je 10 '25
Use of septic tanks. H. May. Dom Eng 108: 49 Ag 9 '24

Cleaning
Cleaning Haskell septic tanks. il Pub Works 56:211-12 Je '25

SEPTIC tanks, Concrete
Alumina replaces Portland cement in septic tanks. F. M. Brown. il Concrete 25:72-3 Ag '24
Monolithic septic tanks in units. il Concrete 25:242 D '24

SERICITE
Dehydration temperature of pyrophyllite and sericite. J. L. Stuckey. Am Cer Soc J 7: 735-7 O '24

SERICULTURE. See Silkworms

SERIES
Introduction to the operations with series. I: J. Schwatt. 287p Press of the Univ. of Pennsylvania, Philadelphia '24

SERIES, Infinite
History and synopsis of the theory of summable infinite processes. L. L. Smail. 175p University of Oregon, Eugene, Oregon '25

SERLIO, Sebastian
Serlio's famous sixth book suddenly reappears at Columbia university. il Am Arch 127: 331-2 Ap 8 '25

SERVANTS
Domestic workers and their employment relations. M. V. Robinson. U S Women's Bur Bul 39:1-87 '24
Domestic workers in Baltimore. Monthly Labor R 20:235-7 F '25

See also Employers' liability

SERVICE (in industry)
Consult our engineers; a service that has grown up in raw material industries. D. Gridley. Ptr Ink M 8:21-2+ Ap '24
Dealer helps at $150 each; Upson company teaches use of wallboard. W. Bates. il Ptr Ink M 11:54+ O '25
Have manufacturers gone too far in giving service? E. W. McCullough. Ptr Ink 128: 69-70+ S 11 '24
Helping the customer to get a better product; the New Jersey zinc company combines research and sales engineering. D. Gridley. Ptr Ink 127:100+ My 8 '24
How seven concerns have taken the bunk out of service. D. H. Colcord. Sales Management 7:1523-4+ S '24
How shall we service the product? R. Cole. Ptr Ink 133:3-4+ O 29; 148+ N 12 '25
How the Otis Hidden company sold personal service. W. E. Backus. Ptr Ink 127:170+ Je 26 '24
Is the customer always right? W. B. Edwards. Ptr Ink 127:89-90+ Je 12 '24
Manufacturer's interest in application. W. A. Bates. Elec W 85:173-4 Ja 17 '25
My three essentials of management. J. Fleischmann. il System 46:25-8+ Jl '24
Nine ways to get buyers to use product correctly. J: A. Murphy. Ptr Ink 127:3-4+ Ap 10 '24
Perhaps farm women don't know how to use your product. Ptr Ink 131:57-8+ Ap 16 '25
Production service co-operation between manufacturer and machine user. F. A. Parsons. il Am Mach 61:981-3 D 25 '24
Repairs organisation. W. J. Hiscox. Elec R (Lond) 96:831-2, 845-6, 886-7 My 22-Je 5 '25
Selling service-surveying. Sheet Metal Worker 16:269-70 My 22 '25
Service. W. L. Wise. Soc Auto Eng J 14: 274-6+ Mr '24; Same cond. Automotive Ind 49:1200-2 D 13 '23
Shouting "Service!" as a battlecry. W: N. Taft. Nations' Business 13:37-9 Ap '25
Spending the most money to keep old friends; Ingersoll-Rand instruction literature. J. H. Collins. il Ptr Ink M 10:27-8+ F '25
Spirit of service in technical selling. J. Hope. Am Mach 61:819 N 20 '24
Three methods that doubled our sales; service of the Yellow cab manufacturing company. J: Hertz. il System 46:575-7+ N '24
What does the advertiser owe prospects before the sale? C. B. Larrabee. Ptr Ink M 10:19-21 F '25

See also Automobile industry and trade—Service; Credit departments—Service; Dealer helps; Electric industries—Service; Electric utilities—Service; Gas companies—

SERVICE (in industry)—*Continued*
Service; Motor truck industry and trade—Service; Railroad supplies industries—Service; Street railroads—Service

SERVICE and comfort stations of America, inc.
Birth of a notion: a home away from home. Comm & Fin 13:436 F 27 '24

SERVICE at cost. See Street railroads—Franchises

SERVICE charge. See Public utilities—Rates

SERVICE equipment associates
Getting the salesmen to push a general co-operative plan. H: Burwen. Ptr Ink 125:65-6+ N 22 '23

SERVICE pipes, installation of. See Waterworks—Finance

SESAME oil
Chemical composition of sesame oil. G: S. Jamieson and W. F. Baughman. Am Chem Soc J 46:775-8 Mr '24
Observations on the Baudouins test. C. O. Gravenhorst. Ind & Eng Chem 16:47-8 Ja '24

SESQUITERPENES
Action of formic acid on certain sesquiterpenes. J: M. Robertson, C. A. Kerr and G: G. Henderson. Chem Soc J 127:1944-6 S '25

SETTLING basins. See Water purification

SETTLING of particles. See Particles

SEVERN river
Severn power scheme. Engineering 118:294-5 Ag 29 '24

SEVILLE
Little tour in Spain. il Am Inst Arch J 12: 459-68 N '24

SEWAGE
Recent developments in study of sewage biology. W: Rudolfs. Eng & Contr (W W) 61: 603-4 Mr 12 '24; Abstract. Pub Works 55: 24-5 Ja '24

Analysis
Analyzing sewages and sewage effluents. C. B. O. Jones. Can Eng 47:337-9 S 16 '24

SEWAGE disposal
Attacking sewage bacteria by dynamite. T. R. Hasley. Eng N 94:614-15 Ap 9 '25
Biochemical oxygen demand test. J. A. Childs. Pub Works 56:218-19 Je '25
Birds and sewage disposal. L. A: Hausman. il Sci Am 130:398 Je '24
Carp in sewage purification. Sci Am 131:25 Jl '24
Chlorine in sewage and waste disposal. J. C. Baker. il Ind & Eng Chem 17:1059-60 O '25; Same. Can Eng 50:127-8 Ja 12 '26
City forces build sewage treatment works. E. R. Perry. il diags map plan Eng N 91:832-7 N 22 '23
Columbus sewage disposal. Pub Works 56:359 O '25
Concreting Jones Island sewage plant at Milwaukee. il Munic Eng 65:240-1 N '23
Control of odors from sewage treatment plants. J: F. Skinner. Am Soc C E Pro 51: 847-53 My '25; Same. Can Eng 49:191-3 Ag 4 '25; Discussion. Am Soc C E Pro 51:1182-92; 52:169-70 Ag '25, Ja '26
Data from state health boards; cities operating sewage treatment plants. Pub Works 56:253-5 Jl '25
Developments in sludge disposal. J: Haworth. Can Eng 46:481-2 Ap 29 '24
English practice in sanitary engineering. H. C. H. Shenton. Can Eng 45:513-15 N 20 '23; Same. Eng & Contr (W W) 61:107-10 Ja 9 '24
Fitchburg sewage treatment plant. il Pub Works 56:8-9 Ja '25
Four new sewage-works of North Shore sanitary district. S: A. Greeley. il maps Eng N 93:456-7 S 18 '24
Home sewage disposal. W. A. Hardenbergh. 274p Lippincott '24
International conference on sanitary engineering, 1st, London, July 7-10. H. P. Eddy. Eng N 93:342-5 Ag 28 '24
Municipal house cleaning. A. P. Folwell. il diag Am Arch 126:155-9 Ag 13 '24
New Jersey sewage disposal studies. charts Pub Works 56:101-5 Mr '25
New sanitary district of Elgin has large program. Eng N 92:193 Ja 31 '24
New sewage disposal works of Lincoln, Neb. il Eng & Contr (W W) 60:1028-31 N 14 '23
New sewage treatment works at Worcester, Mass. R. G. Lingley. Munic & Co Eng 67: 175-7 O '24
New sewage works at Tilbury. il diag plans Engineer 138:242-5 Ag 29 '24
New sewage-works replace old at Marion after 18 years. diags Eng N 93:431 S 11 '24
Novel sewage disposal plant at Johnson Creek, Wis. W. G. Kirchoffer. Munic & Co Eng 68:188-9 Ap '25
Objectives in sewage treatment. J. J. Hinman, jr. Munic & Co Eng 68:167-72 Ap '25
Operating results of Baltimore sewage-works, 1919-22. C. E. Keefer. Eng N 92:250-1 F 7 '24
Organization and program of the sewage substation and some results obtained. W. Rudolfs. Am Water Works Assn J 13:73-80 Ja '25; Same. Eng & Contr (W W) 61:1301-4 Je 11 '24; Same cond. Can Eng 47:179-81 Jl 22 '24
Pensauken sludge digestion plant. N. C. Wittwer. diags plans Pub Works 55:213-16 Jl '24
Queens sewage plant. il Pub Works 55:231-2 Jl '24
Recent additions to the sewerage system and disposal works of Framingham, Mass. F. W. Haley. il diags plans Boston Soc C E J 12: 253-75 Je '25; Abstract. Pub Works 56:359-60 O '25
Recent observations on sewage disposal works in Europe. G: W. Fuller. Munic Eng 65: 260-1 D '23
Recent sewage treatment developments in America. K: Imhoff. il Eng N 95:180-1 Jl 30 '25
Relation of water supply and sewage disposal. G: D. Norcom. Am Water Works Assn J 14: 116-19 Ag '25
Remodeling sewage treatment plant at Rochelle, Illinois. R. I. Randolph. Munic & Co Eng 68:123-5 Mr '25
Removal and disposal of air-dried sludge at Baltimore. J: H. Gregory and C. E. Keefer. il Eng N 93:13-16 Jl 3 '24
Renewing a sewage treatment plant. W. A. Hardenbergh. il Pub Works 54:343-5 N '23
Report of the Sanitary engineering division of A. S. C. E. relative to the New Jersey state sewage experiment station. Am Soc C E Pro 50:[Soc aff]255-8 Mr '24
Riverside sewerage scheme of the Romford R.D.C. diags map plans Engineer 138:290-2, 296 S 12 '24
Sanitary condition of New York harbor. K. Allen. Pub Works 56:78-80 Mr '25
Sanitary engineering in 1924. Engineer 139: 25, 42 Ja 2-9 '25
Separate sludge digestion. W. D. Vosbury. Pub Works 55:184-5 Je '24
Separate sludge digestion at Oneida, N.Y. H: W. Taylor. il diags Pub Works 55:385-7 D '24
Separate sludge digestion; experiences of twelve years at Birmingham, England. Pub Works 55:293 S '24
Separate sludge-digestion sewage plant. L. R. Howson; H. P. Letton. il diags plan Eng N 92:602-6 Ap 10 '24
Sewage disposal for city of 3,000 persons. F. M. Veatch. il Eng N 95:589 O 8 '25
Sewage disposal problem of Chicago. G: W. Fuller. W Soc E J 30:113-25 Ap '25
Sewage disposal problems in Kansas. E. Boyce. Munic & Co Eng 69:41-4 Jl '25
Sewage experimental work investigations. W. Rudolfs. Can Eng 49:103-5 Jl 7 '25
Sewage screening and composting plant for New Rochelle, N.Y. G: W. Fuller. Eng N 94:14 Ja 1 '25

SEWAGE disposal—*Continued*
Sewage treatment for the university towns of Urbana and Champaign. C. R. Velzy. Eng N 92:758-9 My 1 '24
Sewage treatment in the United States. H. H. Wagenhals, E. J. Theriault and H. B. Hommon. il plans U S Pub Health Bul 132:1-267 '25
Sewage treatment in West Virginia. il Pub Works 56:290-2 Ag '25
Sewage treatment plant at Boonton. C. Potts. il diag plan Pub Works 56:231-5 Jl '25
Sewerage and sewage disposal. H. P. Eddy. il diags Eng N 92:693-5 Ap 17 '24
Sewerage plans for New Jersey municipalities. Pub Works 56:318-20 S '25
Sewerage plans for Springfield, Ill. Pub Works 55:234 Jl '24
Sewerage system of the town of Westerly, R. I. T: McKenzie. il Boston Soc C E J 12: 128-41 Mr '25
Sludge disposal by digestion process. J: Watson. Can Eng 46:499-501 My 6 '24; Same abr. Eng & Contr (W W) 62:85-7 Jl 9 '24
Small sewage treatment plant. E. L. Waterman. Pub Works 56:116-17 Ap '25
Small tools for sewage treatment plants. diags Eng & Contr (W W) 60:1234 D 12 '23
Studies of separate sludge digestion at Baltimore. T. C. Schaetzle. Eng N 93:919-23 D 4 '24
Syracuse sewage treatment works. il diag plan Pub Works 56:241-6 Jl '25
U.S. army sewage treatment plant. L. S. Doten. diag plan Eng & Contr (W W) 63: 765-7 Ap 10 '25
Water and sewerage construction at state institutions by Maryland Department of health. G: L. Hall. il Eng N 93:490-5 S 25 '24

See also Cesspools; Imhoff tanks; Plumbing; Refuse disposal; Septic tanks; Sewage flow; Sewage pumping; Sewage sludge; Sewage tanks; Sewer cleaning; Sewer pipes; Sewerage; Sewers, Concrete; Trade waste; Water pollution; *also* Passaic Valley sewer

Activated sludge method

Activated sludge as fertilizer. V: H. Kadish. Eng & Contr (W W) 62:817-20 O 8 '24; Same. Can Eng 47:313-14 S 9 '24
Activated-sludge experiments on packing house wastes. G. L. Fugate. diag Eng N 94:443-5 Mr 12 '25
Activated sludge in England. Pub Works 56: 9-10 Ja '25
Activated sludge plant at Lodi, California. L. F. Barzellotti. Munic & Co Eng 67:219-21 N '24
Activated sludge plants at Houston. J. V. McVea. Can Eng 48:323-4 Mr 17 '25
Activated sludge plants in Canada and England. F. A. Dallyn. Can Eng 45:550-1 D 4 '23
Activated-sludge process advised for Elyria, Ohio. Eng N 95:673 O 22 '25
Activated-sludge process has come to stay. T. C. Hatton. Eng N 93:538-9 O 2 '24
Activated-sludge sewage-disposal plant at Milwaukee. J: A. Wilson. il Mech Eng 47: 837-40 O '25; Same cond. Nation's Health 7:305-8+ My '25; Discussion. Mech Eng 47:840-1 O '25
Bio-aeration of sewage. A: J: Martin. Engineering 116:681-2 N 30 '23
British view of the activated sludge process. F. W. Harris. Munic & Co Eng 69:198-201 O '25
Dewatering activated sludge. L. Pearse. Eng & Contr (W W) 62:91-4 Jl 9 '24; Same. Can Eng 47:240-2 Ag 12 '24; Same. Munic & Co Eng 67:18-21 Jl '24; Same. Pub Works 55: 262-5 Ag '24
Disposal of excess activated sludge by digestion. K: Imhoff. il Eng N 94:936-7 Je 4 '25; Discussion. 94:1071-2 Je 25 '25
Elasticity of the activated sludge process. J. Bolton. Munic & Co Eng 67:146-8 S '24; Same. Can Eng 47:355-6 S 23 '24
Filtration of activated sludge. F. W. Mohlman. Ind & Eng Chem 16:225-7 Mr '24; Same cond. Eng N 91:1015-16 D 20 '23
Four activated-sludge plants in California. C. E. Grunsky, jr. plan Eng N 92:937-9 My 29 '24
Good results from activated sludge treatment. Eng & Contr (W W) 62:556 S 10 '24
Information concerning eight activated sludge plants. Pub Works 55:349 N '24
L'installation pour l'épuration des eaux d'égout de la ville de Milwaukee (Wisconsin, E.-U.). A. Bidault des Chaumes. il plan Génie Civil 85:285-9 O 4 '24
Milwaukee sewage disposal plant opened. Eng N 95:75+ Jl 9 '25
Milwaukee's sewage disposal plant. il plan Pub Works 55:17-20 Ja '24
New district sewer system, London, Ont. W. M. Veitch. il diags map plan Can Eng 48: 133-7 F 3 '25; Same. Eng & Contr (W W) 63:507-14 Mr 11 '25
Part which bio-aeration may yet play in purifying sewage. J: D. Watson. Engineering 118:241-2 Ag 15 '24; Same cond. Can Eng 47:363-4 S 23 '24
Power plant of Milwaukee sewage disposal works. il diags plans Power 60:316-22 Ag 26 '24
Proposed sewage plant for Anderson, Ind. F: L. Ray. Munic & Co Eng 69:80-1 Ag '25
Purification of sewage—sludge digestion. W: Gore and G: G. Nasmith. diags Can Eng 48:579-81 Je 16 '25
Recent developments with the activated sludge process. Munic & Co Eng 67:162 O '24
Sewage disposal plant for Milwaukee. T. C. Hatton. Can Eng 48:365-6 Mr 31 '25
Sewage disposal works at Stratford, Ont. A. B. Manson. il Can Eng 46:335-6 Mr 18 '24
Sewage treatment at Indianapolis. Munic & Co Eng 69:66-7 Ag '25
Sewage treatment at Newark, England. Pub Works 56:316-17 S '25
Sewage treatment at Worcester. Pub Works 55:374 D '24
Sewerage system at Long Branch, Ont. il diags plan Can Eng 47:533-5 N 25 '24
Small, compact activated sludge plant. diag plan Eng & Contr (W W) 60:1263-4 D 12 '23
Some new sewage treatment plant and apparatus; bio-aeration. diags Engineer 138:726, 731-2 D 26 '24
Tests of air pressure losses in activated-sludge plants. R. J. Bushee and S. I. Jack. Eng N 93:823-4 N 20 '24
Treatment of activated sludge. Engineer 140: 247 S 4 '25
Tri-cities' activated-sludge plant at Alhambra, Calif. Eng N 95:714-16 O 29 '25
York township disposal plant. il Can Eng 49: 443-4 O 6 '25

Chemical treatment

Lime in sewage treatment. T. C. Schaetzle. Pub Works 56:171-2, 201-3 My-Je '25
Lime treatment of sedimentation sludge. A. Wolman. Eng & Contr (W W) 63:1254-5 Je 10 '25
Normalcy in chemical treatment of sewage. J. F: Jackson. Pub Works 56:379-82, 397-9 O-N '25

Cost

Syracuse sewage treatment works. il Pub Works 56:245-6 Jl '25

Electrolytic treatment

D.-O. process permitted for Austin, Minn. Eng N 91:993 D 13 '23
Direct oxidation tests at Toronto. F. A. Dallyn, G: A. Johnson and A. V. Delaporte. il diags plan Can Eng 46:243-54 F 19 '24

Filtration

Butterfly valve dosing control for trickling filters. H: R. King. diags Eng N 92:1049-50 Je 19 '24
Concrete underdrains at Worcester; failure of underdrains in sand filters. H. P. Eddy. il diag Pub Works 54:379-80 D '23

SEWAGE disposal—Filtration—*Continued*
Dewatering activated sludge. L. Pearse. Eng & Contr (W W) 62:91-4 Jl 9 '24; Same. Can Eng 47:240-2 Ag 12 '24; Same. Munic & Co Eng 67:18-21 Jl '24; Same. Pub Works 55: 262-5 Ag '24
Distributors for percolating sewage purification beds. il diags plan Engineer 137:206-8 F 22 '24; Same. Eng & Contr (W W) 62: 596-602 S 10 '24
Filtration of activated sludge. F. W. Mohlman. Ind & Eng Chem 16:225-7 Mr '24; Same cond. Eng N 91:1015-16 D 20 '23
Handling slag for East Sparta sludge beds. il Pub Works 56:383-4 O '25
Imhoff tanks and sprinkling filters being planned for Akron. Eng N 92:461 Mr 13 '24
Lime hypochlorite lowers psychoda flies at sewage works. M. M. Cohn. il Eng N 94: 684-5 Ap 23 '25
Microscopic plants in sprinkling filters. W: Rudolfs. Pub Works 55:236-7 Jl '24
New sedimentation and coagulating basins at Toledo. G: N. Schoonmaker. il diags plan Eng N 92:443-6 Mr 13 '24
Operation of percolating bacteria beds: J: T. Thompson. Can Eng 49:253-7 Ag 25 '25; Abstract. Pub Works 56:382 O '25
Rotating dosing device for sewage filter bed. il diags plan Eng N 92:496-7 Mr 20 '24
Small sewage disposal plant. L. S. Doten. diag plan Eng & Contr (W W) 63:1289-91 Je 10 '25
Some results of sewage filtration. H. W. Clark. Eng & Contr (W W) 64:117-18 Jl 8 '25
Treatment of sewage in Scandinavia. G. P. Harvey. Can Eng 47:399-402 O 7 '24; Same. Eng & Contr (W W) 63:311-17 F 11 '25
Trickling filter distributors at British sewage-works. T. C. Hatton. il Eng N 93: 624-6 O 16 '24
Unique distribution of filter material. il Eng & Contr (W W) 64:845-6 O 14 '25

Laws and regulations

Licensing operators of sewage treatment plants in New Jersey. H. P. Croft. Pub Works 56:129-31 Ap '25

See also Sewerage—Laws and regulations

Screening

Compact underground sewage-works in lower New York. W: Goldsmith. il diags Eng N 94:611-13 Ap 9 '25
Gates and screens, sewage treatment plant, Queens Borough, New York. il Eng & Contr (Equip R) 62:242-3 Jl 30 '24
Increase sewage screen capacity at Long Beach, Calif. plans Eng N 93:136-7 Jl 24 '24
Link-Belt Tark screen. il Can Eng 45:535 N 27 '23

Statistics

Sewage treatment in American cities; tabulation. Pub Works 56:260-4, 299-306, 345-7 Jl-S '25

SEWAGE disposal, Rural
Farm water supply and sewage disposal. C: L. Hubbard. il diags Dom Eng 108:21-3 S 20 '24
Sewage disposal for isolated golf clubs. A. E. Hansen. il diags plans Arch Forum 42: 207-12 Mr '25
Sewage works for small rural districts. J. D. Watson. Can Eng 49:513-16 N 3 '25

See also Septic tanks

SEWAGE ejectors
Ejectors keep water out of basements. E. Williams. il diags Dom Eng 112:20 Jl 25 '25
Outline of tentative specifications for sewage ejectors. Am Arch 125:sup12+ Mr 12 '24
Tests of an air-ejector pumping viscous humus. R. C. S. Walters and V. G. Pickering. diag Engineering 116:552-3 N 2 '23

SEWAGE flow
Determinations of Kutter's *n* in 15- and 18-in. pipe sewers. C: W. Sherman. Eng N 95:434-6 S 10 '25
Method for comparing sprinkler nozzle performance. M. J. Zucrow. diags Eng N 93: 999-1001 D 18 '24

SEWAGE irrigation
Sewage treatment in Helena. Pub Works 56: 296-7 Ag '25
Studies of outlets and crops on sewage irrigated areas. G: A. Mitchell. il diags plan Eng N 92:284-7 F 14 '24

See also Sewage sludge as fertilizer

SEWAGE pumping
Design and operation of sewage pumping stations. C. S. Timanus. Munic Eng 65:250-3 D '23
Horizontal sewage pump. il diags Engineering 118:211 Ag 8 '24
New sewage pumping station at Lincoln. il diags plan Engineer 138:546-8 N 14 '24
New sewage works at Tilbury. il diag plans Engineer 138:242-5 Ag 29 '24
Nine years' operation of the Baltimore sewage pumping station. C. E. Keefer. il Pub Works 55:207-10 Jl '24
Riverside sewerage scheme of the Romford R.D.C. diags map plans Engineer 138:290-2, 296 S 12 '24
Sewage pumping in Jacksonville. W. E. Sheddan. il Pub Works 54:348-9 N '23
Sewage pumping in Toledo. Pub Works 56:332 S '25
Small sewage pumping station at Eveleth, Minn. H. A. Robinson. diag Eng N 95:227 Ag 6 '25
Syracuse sewage treatment works. il diags plan Pub Works 56:241-6 Jl '25
Toledo sewage pumping. Pub Works 55:279-80 S '24
Worthington vertical triplex sludge pump. il diag Eng & Contr (W W) 64:868-9 O 14 '25
Yoemans centrifugal sewage pump. il Eng & Contr (W W) 63:786 Ap 10 '25; Pub Works 56:sup 62 My '25

Statistics

Sewerage connections, amounts and pumping in several hundred cities; tabulation. Pub Works 56:256-9 Jl '25

SEWAGE sludge
Alum shortens drying period of Imhoff tank sludge. W. Rudolfs, J: R. Downes and F. L. Campbell. Eng N 91:888-9 N 29 '23
Disposal of excess activated sludge by digestion. K: Imhoff. il Eng N 94:936-7 Je 4 '25; Discussion. 94:1071-2 Je 25 '25
Gas production variation, Imhoff tanks. W. Rudolfs and F. L. Campbell. Can Eng 46: 440-1 Ap 15 '24
Glass covered sludge drying bed. W. S. Coulter. il Munic & Co Eng 69:57-60 Ag '25
Hot water supply from sludge. A. J. Martin. Can Eng 45:532-3 N 27 '23
Removal and disposal of air-dried sludge at Baltimore. J: H. Gregory and C. E. Keefer. il Eng N 93:13-16 Jl 3 '24
Separate sludge digestion at Oneida, N.Y. H: W. Taylor. il diags Pub Works 55:385-7 D '24
Separate sludge-digestion sewage plant. L. R. Howson; H. P. Letton. il diags plan Eng N 92:602-6 Ap 10 '24
Sewage sludge problem in United States. Eng & Contr (W W) 60:1020-2 N 14 '23; Same. Can Eng 45:491-3 N 13 '23; Same. Pub Works 54:366-7 N '23
Sludge drying and handling. W. Gavett. Pub Works 56:170-1 My '25; Same. Can Eng 49: 330 S 22 '25
Studies of separate sludge digestion at Baltimore. T. C. Schaetzle. Eng N 93:919-23 D 4 '24
Treatment of sludge with alum. Eng & Contr (W W) 62:1276 D 10 '24

See also Sewage disposal—Activated sludge method

SEWAGE sludge as fertilizer
Activated sludge as a fertilizer. V. H. Kadish and O. J. Noer. Pub Works 55:311-12 O '24
Activated sludge as fertilizer. V: H. Kadish. Eng & Contr (W W) 62:317-20 O 8 '24; Same. Can Eng 47:313-14 S 9 '24

SEWAGE sludge as fertilizer—*Continued*
Activated-sludge sewage-disposal plant at Milwaukee. J: A. Wilson. il Mech Eng 47:837-40 O '25; Same cond. Nation's Health 7:305-8+ My '25; Discussion. Mech Eng 47:840-1 O '25
Fertilizing value of activated sludge. Pub Works 55:23 Ja '24
Hygienic aspects of use of sewage sludge as fertilizer. A. Wolman. Eng N 92:198-202 Ja 31 '24; Excerpt (Baltimore regulations). Eng & Contr (W W) 61:792 Ap 9 '24; Munic & Co Eng 66:285-6 Je '24
Separate sludge digestion; experiences of twelve years at Birmingham, England. Pub Works 55:293 S '24

SEWAGE tanks
Pensauken sludge digestion plant. N. C. Wittwer. diags plans Pub Works 55:213-16 Jl '24
Recent sewage treatment developments in America. K: Imhoff. il Eng N 95:180-1 Jl 30 '25
Sludge disposal by digestion process. J: Watson. Can Eng 46:499-501 My 6 '24; Same abr. Eng & Contr (W W) 62:85-7 Jl 9 '24
U.S. army sewage treatment plant. L. S. Doten. diag plan Eng & Contr (W W) 63: 765-7 Ap 10 '25

See also Imhoff tanks; Septic tanks

SEWER cleaning
Cofferdam built to dislodge cleaning ball in lake outlet sewer. C: A. French. Eng N 95:10-11 Jl 2 '25
Sewer cleaning in Portland. Pub Works 56: 237-8 Jl '25

SEWER design
Coefficient of run-off in storm sewer design. L. K. Sherman. Munic & Co Eng 66:297-301 Je '24
Design of relief sewers. A. W. Consoer. Munic Eng 66:88-90 F '24
Distribution of intense rainfall and some other factors in the design of storm-water drains. F. A. Marston. Am Soc C E Pro 50: 19-46, pl 1 Ja '24; Discussion. 50:543-58, 660-70 Ap-My '24
Homeside district sewers, Hamilton, Ont. H. S. Philips and W. M. Johnston. diags plans Can Eng 46:467-72 Ap 29 '24
Hydraulics applied to sewer design. G. S. Coleman. 158p Van Nostrand '23
Method of constructing vertical outfall shaft for sewer. diags plan Eng & Contr (W W) 62:57-8 Jl 9 '24
Problems of sewer design in Canada. A. G. Dalzell. diags map Can Eng 48:419-20, 475-7 Ap 21, My 12 '25
Rainfall and run-off in connection with sewer design. J. G. Caron. il Eng & Contr (W W) 64:575-86 S 9 '25
Reinforced concrete arch in sewer construction: a review of past practice in design and an account of recent studies in St. Louis, Missouri. C: E. Sharp, jr. diags Am Soc C E Pro 51:1082-1113 Ag '25; Same. Eng & Contr (W W) 64:1267-79 D 9 '25; Discussion. Am Soc C E Pro 51:1985-94; 52: 278-81, 454-6 D '25, F-Mr '26

SEWER gas
More unusual gases occurring in Imhoff tanks. F. L. Campbell and W. Rudolfs. Eng N 95: 552-3 O 1 '25

See also Manholes

SEWER pipes
Points in the design and construction of pipe sewers. A. G. Dalzell. diags Eng N 95:20-1 Jl 2 '25; Same. Can Eng 49:251-2 Ag 25 '25; Abstract. Brick & Clay Rec 67:410-11 S 15 '25; Discussion. Eng N 95:232, 850 Ag 6, N 19 '25
Wave-actuated water hammer splits 36-in. sewer outlet at Paducah, Ky. Eng N 95:629 O 15 '25
Weston joint for sewer pipe. il Brick & Clay Rec 67:484 S 29 '25

See also Sewer cleaning; Sewers, Concrete

Cost
Cost of pipe sewers. Pub Works 55:233 Jl '24
Fuel costs for burning clay ware. Brick & Clay Rec 64:650-1 Ap 29 '24

Drying
Drying sewer pipe in Japan. Brick & Clay Rec 65:330-1+ S 2 '24
Humidity dryers for sewer pipe. il Brick & Clay Rec 66:668-70 Ap 28 '25

Manufacture
Bannon pipe co. has some useful features. il Brick & Clay Rec 67:553 O 13 '25
Clay sewer pipe manufacture. H. G. Schurecht. il Am Cer Soc J 6:615-22, 717-29, 831-6; 7:411-22, 539-47 My-Jl '23, Je-Jl '24
How we eliminated scum on sewer pipe. J. F. Straumford. Brick & Clay Rec 65:385-6 S 16 '24
Making sewer pipe the modern way. il Brick & Clay Rec 64:492-6 Ap 1 '24
Manufacturing sewer pipe. E. F. Clemens. il Brick & Clay Rec 65:530-2, 607-9, 688-9+, 762-3 O 14-N 25 '24
Methods and manufacture of sewer pipe in Canada. C: A. Millar. Am Cer Soc J 8: 452-6 Jl '25
Modern plant rises from fire ruins of old. D. W. Taylor. il diag plan Brick & Clay Rec 64:108-13+ Ja 22 '24
33% more pipe with same equipment. Brick & Clay Rec 66:675-7 Ap 28 '25

Prices
Vitrified sewer tile prices, Chicago; tabulation. D. H. Maury. Eng & Contr (W W) 61: 1043 My 14 '24

Testing
Inexpensive device for making crushing tests on sewer pipe. A. Wells. il Eng N 95:516-17 S 24 '25
Tests on composite tile block and concrete sewer. R. E. Davis. il diag Eng N 95:268-70 Ag 13 '25

Transportation
Reducing sewer pipe breakage. Brick & Clay Rec 66:189-90 F 3 '25
Stop the big losses in sewer pipe. Brick & Clay Rec 65:165-6 Ag 5 '24
Watchfulness an aid in reducing claims on sewer pipe. E. F. Ford. Ry Age 79:101 Jl 11 '25

SEWER pipes, Concrete

See also Sewers, Concrete

Manufacture
Concrete sewer pipe manufacturing plant of the Consumers supply co., Milwaukee. il Concrete 26:217-19 Je '25
Home-made concrete pipe replaces town drainage ditches. Eng N 94:979 Je 11 '25
Making the concrete pipe for Los Angeles outfall sewer. il diags Eng N 93:296-8 Ag 21 '24

SEWERAGE
Alternative sewer system for North Toronto. Can Eng 46:576 Je 3 '24
Chlorinated overflow storm sewage to go into water reservoir. Eng N 92:973 Je 5 '24
Control of storm-water flow to sewers in the City of The Hague, Holland. Eng N 93:722, 968 O 30, D 11 '24
Deposits in Peabody sewers. il Pub Works 55: 230-1 Jl '24
Draglines as trench diggers. il Eng & Contr (W W) 63:113-15 Ja 14 '25
East York sewerage scheme. il plan Can Eng 47:417-18 O 14 '24
Enlarged sewer system needed at East St Louis, Ill. map Eng N 95:260-1 Ag 13 '25
Forest Hill sewer scheme. H: N. Ogden. Can Eng 48:272 Mr 3 '25
Mill Pond sewer, St John, N.B. diags Can Eng 48:407 Ap 14 '25
New district sewer system, London, Ont. W. M. Veitch. il diags map plan Can Eng 48: 183-7 F 3 '25; Same. Eng & Contr (W W) 63:507-14 Mr 11 '25

SEWERAGE—*Continued*
Open shield for pipe laying in wet soil. plan Eng & Contr (W W) 61:572 Mr 12 '24
Points in the design and construction of pipe sewers. A. G. Dalzell. diags Eng N 95:20-1 Jl 2 '25; Same. Can Eng 49:251-2 Ag 25 '25; Abstract. Brick & Clay Rec 67:410-11 S 15 '25; Discussion. Eng N 95:232, 850 Ag 6, N 19 '25
Problems of sewer design in Canada. A. G. Dalzell. Can Eng 48:419-20, 475-7 Ap 21, My 12 '25
Recent additions to the sewerage system and disposal works of Framingham, Mass. F. W. Haley. il diags plans Boston Soc C E J 12:253-75 Je '25
Relation between the capacity of combined and storm sewers, their cost and the frontage assessment. S. A. Greeley. maps W Soc E J 30:13-24 Ja '25
Relation of sewer trench width to load on pipe. G: C. D. Lenth. diags Eng N 92:533-5 Mr 27 '24; Discussion. Eng N 92:779, 1030 My 1, Je 12 '24
Relation of zoning to the design of drainage and sewerage. P. Hansen. Am Soc C E Pro 51:220-3 F '25
Runnymede sewer system. E. M. Proctor. Can Eng 47:275-6 Ag 26 '24
Sanitation program followed at Gary, Ind. W. P. Cottingham. Eng N 94:610 Ap 9 '25
Sewerage and sewage treatment. H. E. Babbitt. 2d ed., rev. 516p [bibliog. p. 462-3, 478-9] Wiley '25
Storm water disposal by means of wells. Eng & Contr (W W) 61:73 Ja 9 '24
Storm water inlets and connections. J: Wilson. Munic & Co Eng 68:227-9 My '25
Trunk sewer advised from Lowell down the Merrimack to the sea. Eng N 93:211 Ag 7 '24
Vertical sewer in Ontario. Pub Works 55:346 N '24
When's a spring not a spring? Eng & Contr (W W) 63:733-4 Ap 10 '25
York township construction activities; trunk sewerage system. il diags map Can Eng 47: 555-8 D 2 '24
See also Drainage, House; Pipe laying; Plumbing; Sanitary districts; Sewage disposal; Sewage sludge; Sewer cleaning; Sewer design; Sewer pipes; Sewers, Concrete; Trade waste; Water pollution; *also* subdivision Sewerage under names of cities, e.g. Chicago—Sewerage; New York (city)—Sewerage; *also* Passaic Valley sewer

Contracts

Contractor wins suit to recover losses due to engineer's misrepresentations; Holbrook, Cabot & Rollins corporation held entitled to rescind contract to build Passaic Valley sewer tunnel. Eng N 93:21-4 Jl 3 '24
Poor design of engineering work condemned by court. Eng N 93:676 O 23 '24

Cost

Cost of sewer construction at Providence, R.I. Eng & Contr (W W) 62:1270 D 10 '24
Homeside district sewers, Hamilton, Ont. H. S. Philips and W. M. Johnston. diags plans Can Eng 46:467-72 Ap 29 '24; Same cond. Concrete 25:24-7 Jl '24
Relation between the capacity of combined and storm sewers, their cost and the frontage assessment. S. A. Greeley. maps W Soc E J 30:19-24 Ja '25
Scoria blocks replace brick in sewers. diag Eng N 92:777 My 1 '24

Laws and regulations

Operation of Ohio sewer district law since enacted in 1911. R. F. MacDowell. Eng N 94:227-8 F 5 '25
Sewerage plans for New Jersey municipalities. Pub Works 56:318-20 S '25

Maintenance and repair

Repairing a broken sewer. P. Molitor. il Pub Works 56:158-9 My '25
Repairing New York's sewers. Pub Works 55: 24 Ja '24

Records

Finding sewer connections. H. M. Hoover. diags Dom Eng 109:17-18 D 27 '24

Statistics

Sewer construction in the United States. Pub Works 55:210-12 Jl '24
Sewerage connections, amounts and pumping in several hundred cities; tabulation. Pub Works 56:256-9 Jl '25
Sewerage statistics; amounts and kinds of sewers laid during 1922. Pub Works 54: 398-9 D '23
Value of 1923 sewer awards heaviest since 1918. Eng N 92:385 F 28 '24
Water works and sewer contracts awarded during the last 58 months. Eng & Contr (W W) 62:1256 D 10 '24 [continued monthly]

Terminology

Tentative report of the committee of the sanitary engineering division on definitions. Am Soc C E Pro 51:[Soc aff]114-25 Mr '25

SEWERS. See Sewerage

SEWERS, Brick
Brick paved storm-water interceptor. T. W. Hacker. il diag Pub Works 56:249-50 Jl '25
Standard specifications for clay sewer brick. diags Am Soc T M Standards 1923:54-9

Maintenance and repair

Brick arch conduit tunnel suspended and underpinned. diag Eng N 93:1044-5 D 25 '24
Building new sewers inside old sewers. F. W. Skinner. il diag Eng & Contr (W W) 63:93-5 Ja 14 '25
Rejuvenating brick sewers. Pub Works 56: 12-13 Ja '25
Rejuvenating old brick sewers rapidly and thoroughly. F. W. Skinner. il Munic & Co Eng 67:308-10 D '24
Safeguarding brick sewers; reinforced by concrete lining. il diags Concrete 26:22-5 Ja '25
Sewer repairing in Dayton; cost tables. I. E. Houk. il Pub Works 55:87-9 Mr '24

SEWERS, Concrete
Belt conveyor handles concrete for large aqueduct. il diags Eng N 94:149-51 Ja 22 '25
Big sewer jobs economical in concrete. il diags Concrete 23:187-8 N '23
Building North Beach sewers. F. W. Skinner il Pub Works 54:377-9 D '23
Building 3,000 ft. of Spring Wells (Mich.) sewer in record time. il Eng N 92:1111 Je 26 '24
Concreting sewer with belt conveyer. Pub Works 56:12 Ja '25
Crawler paver does good service on sewer construction job. il Eng N 93:799 N 13 '24; Eng & Contr (W W) 62:1053-4 N 12 '24; Pub Works 55:341-2 N '24; Concrete 25:227-8 D '24
Formwork for large sewers on short-radius curves. J. C. Keeley. il diag Eng N 94: 1068 Je 25 '25
Homeside district sewers, Hamilton, Ont. H. S. Philips and W. M. Johnston. diags plans Can Eng 46:467-72 Ap 29 '24; Same cond. Concrete 25:24-7 Jl '24
Houston concrete sewers investigated. Concrete 23:238-9 D '23
Los Angeles north outfall sewer includes various types of concrete construction. il map Concrete 26:112-17 Ap '25
Muddy Run trunk sewer, Niagara Falls, Ont. E. M. Proctor. il diags plans Can Eng 45: 561-5 D 11 '23
Open sea construction of a concrete pipe sewer outfall. H. A. Van Norman. il diag plan Eng N 95:292-4 Ag 20 '25
Progress on North outfall sewer for city of Los Angeles. W. T. Knowlton. il Eng N 92: 730-1 Ap 24 '24
Reinforced concrete arch in sewer construction: a review of past practice in design and an account of recent studies in St. Louis, Missouri. C: E. Sharp, jr. diags Am Soc C E Pro 51:1082-1113 Ag '25; Same. Eng & Contr (W W) 64:1267-79 D 9 '25; Discussion. Am Soc C E Pro 51:1985-94; 52:278-81, 454-6 D '25, F-Mr '26
Richmond puts Shockoe creek into a concrete conduit. A. J. Saville. il diag Eng N 93: 900-2 D 4 '24

SEWERS, Concrete—*Continued*
Roadbed drainage and crossing of Chicago sewer; I.C.R.R. diags plans Eng N 92:410-12 Mr 6 '24
Sewer with low headroom. E: S. Rankin. il diags Pub Works 56:286-7 Ag '25
Tests on composite tile block and concrete sewer. R. E. Davis. il diag Eng N 95: 268-70 Ag 13 '25
Trucks and conveyor deliver concrete to sewer forms. il Concrete 27:26-7 Jl '25
Unique mountain sewer system of concrete pipe. il Concrete 23:178-9 N '23
Vitrified tile liners used in Los Angeles sewers. il diags Eng N 93:189 Jl 31 '24
Winter sewer construction in Worcester, Mass. R. G. Lingley. il Eng & Contr (W W) 63:1021-4 My 13 '25

See also Catch basins, Concrete; Sewer pipes, Concrete

Cost

Richmond puts Shockoe creek into a concrete conduit. A. J. Saville. il diag Eng N 93:900-2 D 4 '24

Maintenance and repair

Repairing water and sewer works with gunite. L. B. Penhallow. il Munic & Co Eng 66: 149-50 Ap '24

Specifications

Standard specifications for monolithic concrete sewers and recommended rules for concrete sewer design. Am Concrete Inst Pro 20:757-67 '24
Tentative standard specifications for plain concrete sewer pipe. diags Am Concrete Inst Pro 20:669-77 '24
Tentative standard specifications for reinforced-concrete sewer pipe. diags Am Concrete Inst Pro 20:686-91 '24; Same with amendment. 21:584-90 '25; Discussion. 20: 692-4 '24

SEWERS, Segment block
Construction of Renfrew street sewer. W. Aldridge. il diag Can Eng 46:626-7 Je 17 '24

SEWING
Sewing materials. M. B. Picken. 267p Woman's institute of domestic arts and sciences, Scranton, Pa. '24
Woman's institute library of dress-making. 267p Woman's inst. of dom. arts and sciences, Scranton, Pa. '23

SEWING machines

Manufacture

Dies for producing a complicated sewing-machine part. C. E. Stevens. diags Mach 30: 783-6 Je '24
Mechanically equipped hardening room of the Singer manufacturing co. C. T. Willard. il Am Mach 63:375-9 S 3 '25
Seven ways to a better finish. F. Arnold. il Factory 35:310+ Ag '25
Some fixtures used in machining sewing-machine cams. F. O. Hickling. diags Am Mach 61:779-80, 817-18 N 13-20 '24
Die sondermaschine. K. Jung. il diags Zeit Ver Deutsch Ing 69:257-60, pl 1 F 28 '25
Tools for a sewing-machine part. F. O. Hickling. diags Am Mach 61:164-5 Jl 24 '24
Tools for making sewing machine crankshafts. F. O. Hickling. diags Am Mach 61: 132-3 Jl 17 '24
Variety of operations used in the manufacture of sewing machine parts. il Am Mach 62: 694-5 Ap 30 '25

SGRAFFITO decoration. See Graffito decoration

SHACKLES. See Chains

SHAFT and gallery method. See Petroleum—Mining process

SHAFT currents. See Stray currents

SHAFT sinking
Methods of gold mining in eastern Siberia. A. P. Sviridoff. il diags map Eng & Min J 118:251-8 Ag 16 '24; Correction. 118:568 O 11 '24
Plugging a high pressure tunnel, Buffalo filter plant. C. S. Rindsfoos. diags plan Eng N 94: 641-3 Ap 16 '25
Sinking shafts for coal mines; advantages of the Francois cementation process. Can Eng 47:163 Jl 15 '24

See also Drilling and boring (earth and rocks); Mine shafts

Cost

Cost of shaft sinking at Cripple Creek. W: S. Black. il Eng & Min J 120:255-6 Ag 15 '25

Freezing process

Die entwicklung des schachtabteufens nach dem gefrierverfahren in den letzten zwanzig jahren. Erlinghagen. il diags Zeit Ver Deutsch Ing 68:383-93 Ap 19 '24
Freezing process enables lessees to sink shafts in deep marsh land of north Belgium. M. Biquet. plans Coal Age 25:831-4 Je 5 '24

SHAFTING
Biax flexible shaft equipment. il Am Mach 63: 675-6 O 22 '25
Brightman shafting-turning machine. il Am Mach 62:556 Ap 2 '25
Flexible shaft equipment for grinding, polishing and other uses. il Iron Age 116:617 S 3 '25
Line-shafting and hangers. F. E. Gooding. il Ind Eng 82:178-82+ Ap '24
Maintenance: gearing up both plant and equipment for low-cost production. K. D. Hamilton. il Factory 33:790-4+ D '24
Planning a lineshaft installation. F. E. Gooding. il Ind Eng 83:418-22+ S '25
Practical pointers on the groundwork necessary before erecting a lineshaft. G: Trimm. il Ind Eng 83:519-23 N '25
Pulley and shafting problems. N. G. Near. Power Pl Eng 28:196 F 1 '24
Shaft hanger kink; prevents injury to large belts in putting on pulleys. W. F. Schaphorst. diag Textile World 65:3821 Je 7 '24; Same cond. Foundry 52:438 Je 1 '24
Some types and applications of babbitt, ball and roller hanger bearings. F. E. Gooding. il Ind Eng 82:229-31+ My '24
Strand flexible shafts. Brass W 20:436 D '24
Transmission by belting and shafting. G. A. Ungar. Power 60:1036 D 23 '24

See also Belting; Power transmission; Pulleys

Safety devices and measures

Prevention of accidents by rotating shafts. Eng & Min J 117:571 Ap 5 '24

Standards

Standard sizes for shafting key stock. Mech Eng 46:107 F '24

SHAFTS
Calculating the stiffness of shafts. F. A. W. Livermore. Automobile Eng 14:197 Jl '24
Charts for tension in bolts and torsion in shafts. R. Patterson. Am Mach 60:401 Mr 13 '24
Crank and line shafts for double acting oil engines. J. Hecking. Marine Eng 30:167-71 Mr '25
Deflection of a shaft at the critical speed. J: A. Dent. Mech Eng 47:724-6 S '25
Distance between shaft centers. W. F. Schaphorst. Power Pl Eng 29:548 My 15 '25
Grinding a square shaft to close dimension. M. Wright. il Am Mach 60:185 Ja 31 '24
Hot-swaging of rear-axle shafts. R. A. DeVlieg. il diag Soc Auto Eng J 14:507-10 My '24; Discussion. 15:108 Jl '24
How shaft whipping is produced. il diags Power 61:215-19 F 10 '25
Internal friction as a cause of shaft whirling. A. L. Kimball, jr. diags Philos Mag 6th ser 49:724-7 Ap '25
Internal friction theory of shaft whirling. A. L. Kimball, jr. il diags Gen Elec R 27: 244-51 Ap '24
Large uses of steel in small ways; flexible shaft. il Iron Tr R 77:972+ O 15 '25

SHAFTS—*Continued*
Measurement of internal friction in a revolving deflected shaft. A. L. Kimball, jr. il diags Gen Elec R 28:554-8 Ag '25
Method of checking parallelism of shafts on a chain drive. D. A. Hampson. diag Ind Eng 83:501 O '25
Problems of shaft deflection. R. Lochner. diags Electrician 95:442-3 O 16 '25
Resonant vibration; a consideration of the critical speeds of rotors, runners, and screw propellers. J. Morris. diags Automobile Eng 15:213-14 Jl '25
Rotating disk. E. L. Theare. diags Mech Eng 46:670-4 N '24
Shaft whipping. B. L. Newkirk. il diags Gen Elec R 27:169-78 Mr '24; Abstract. Mech Eng 46:279-81 My '24
Shaft whipping due to oil action in journal bearings. B. L. Newkirk and H. D. Taylor. il diags Gen Elec R 28:559-68 Ag '25; Abstract. Power 62:464 S 22 '25
Shrink-fitting a heavy shaft assembly. A. T. Parsons. il Am Mach 59:810-11 N 29 '23; Same. Mach 30:281 D '23; Same. Power Pl Eng 27:1172-3 D 1 '23; Same. Eng & Contr (W W) 60:1009-10 N 14 '23; Same. Iron Tr R 73:1679 D 20 '23; Same. Elec W 83:432-3 Mr 1 '24; Same cond. Power 58:698 O 30 '23; Same cond. Eng N 92:328 F 21 '24
Solid and hollow shafts. L. F. Southwick. chart Am Mach 61:388 S 4 '24
Thermische labilität mehrfach gelagerter wellen. D. Thoma. diags Zeit Ver Deutsch Ing 69:985-7 Jl 25 '25
Torsional vibrations in reciprocating-engine shafts. G. R. Goldsbrough. Mech Eng 47:930-1 N '25
Turning an ice machine shaft without removing it. D. A. Hampson. Ind Eng 83:205 Ap '25
Über die stroboskopische darstellung von fliehkraftfehler-wirkungen an körpern mit senkrechter welle. H. Hort. il diags Zeit Ver Deutsch Ing 68:857-9 Ag 16 '24
Vibration problem in engineering. C. R. Soderberg. Elec J 21:295-9, 330-4 Je-Jl '24
Whirling of shafts. J. Frith and F. Buckingham. bibliog diags Inst E E J 62:107-13 Ja '24
Whirling shafts. J. Morris. Automobile Eng 15:83-4 Mr '25
Whirling speeds of shafts carrying concentrated masses. R. C. J. Howland. Philos Mag 6th ser 49:1131-45 Je '25

See also Crankshafts; Power transmission; Shafting

Repair

Automatic welder for drive shafts. C. H. Franklin. il Am Mach 60:747 My 15 '24
Repairing thread on large shaft. J. Henderson. diag Mach 31:729-30 My '25
Repairs to rolling mill engine shaft. E. R. Norris. Blast F & Steel Pl 13:193-4 My '25
Shrinking a long sleeve on a shaft. Power 62:613, 1024 O 20, D 29 '25
Some pointers on repairing bearings and shafts. R. Pruger. Elec J 20:454-6 D '23

Standards

Standardization of shafts. R. A. Smith. Mech Eng 47:556-7 Jl '25
Three-point propeller-shafts; S.A.E. recommended practice. Soc Auto Eng J 16:263-4 Mr '25

SHAFTS, Mine. See Mine shafts

SHAKESPEARE, William
Producing Shakespeare. C. Bragdon. diags Arch Rec 57:266-75 Mr '25

SHALE
Age of the Chattanooga shale of Tennessee. J. H. Swartz. Am J Sci 5th ser 7:24-30 Ja '24
Bricks from spent shale. Chem Age (Lond) 11:466 N 8 '24
Burnt shale as an economical road surfacing. O. L. Hemphill. Eng N 94:32-3 Ja 1 '25
Clays and shales of Washington, their technology and uses. H. Wilson. (Eng. exp. sta. bul. 18) 224p Univ. of Washington, Seattle '23
Grinding 1,500 tons of shale daily. il plan Brick & Clay Rec 67:38-9 Jl 7 '25
Possible potash production from Minnesota shale. H. A. Schmitt. Econ Geol 19:72-83 Ja '24
Preliminary report on the clay and shale deposits of Ontario. J. Keele. diags Can Geol S Memoir 142:1-176, pl 1-9 '24
Progress report on research of paving brick from Iowa shales. D. A. Moulton. Am Cer Soc J 8:694-701 N '25
Refractory clays and shales of Indiana. W. N. Logan. Am Cer Soc J 7:201-6 Mr '24
Use of explosives for shale blasting. E. Godfrey. diag Brick & Clay Rec 65:387 S 16 '24

See also Kerogen; Oil shales

SHALE planers
Planer economies. H. R. Straight. il diags Am Cer Soc J 7:523-31 Jl '24

SHANDAKEN tunnel. See Catskill aqueduct

SHANGHAI, China

See also Electric plants (central stations)—Shanghai; Electric utilities—Shanghai

Rapid transit

This trolley system pays 20 per cent; conditions in Shanghai and Singapore; abstracts. il Aera 13:1469-78 Ap '25; Elec Ry J 65:694 My 2 '25

SHAPERS
Cincinnati Climax shapers. il Am Mach 59:893-4 D 13 '23; Mach 30:306-9 D '23; Iron Age 112:1445-6 N 29 '23; Automotive Ind 49:1211-12 D 13 '23; Ry Mech Eng 97:843-4 D '23; Iron Tr R 73:1613 D 13 '23
Cincinnati railroad shaper. il Am Mach 62:901-2 Je 4 '25; Iron Age 115:1631 Je 4 '25; Mach 31:912-13 Jl '25; Ry Mech Eng 99:385-6 Je '25
Cincinnati toolroom shaper. il Am Mach 60:828 My 29 '24; Iron Age 113:1582h My 29 '24; Ry Mech Eng 98:389-90 Je '24; Automotive Ind 50:1284-5 Je 12 '24
Cutting speeds of crank shapers. K. H. Crumrine. diags Mach 31:957-9 Ag '25
Equipping the shaper for production work. D. A. Hampson. diags Mach 30:419-21 F '24
How to estimate machine shop costs. A. A. Dowd. diags Am Mach 61:775-7 N 13 '24
Improvements added to G & E shapers. il Iron Age 113:1715 Je 12 '24
John Bertram and sons 26½-in. back-geared crank shaping machine. il Engineering 120:493-4 O 16 '25
New 32-inch Stockbridge shaper. il Iron Age 113:1566 My 29 '24; Ry Mech Eng 98:371-2 Je '24; Elec Ry J 64:94-5 Jl 19 '24
Pratt & Whitney vertical shaper. il Mach 31:66 S '24; Am Mach 61:399-400 S 4 '24; Iron Age 114:561-2 S 4 '24
Rockford machine tool co. constant-speed shaper. il Am Mach 63:331 Ag 20 '25
Shaper as a gear generating machine. J. V. Romig. diags Am Mach 59:924 D 20 '23
Shaper attachment for radius cutting. D. A. Wright. il diag Mach 31:814 Je '25
Shaping machines at Olympia machine tool exhibition. il diags Engineering 118:359-62, pl 39 S 12 '24

SHARP, Walter P.
Whitman's of Philadelphia and Walter P. Sharp. E: Hungerford. il Ptr Ink M 8:24-6+ Ap '24

SHARPENING
Barber-Colman automatic hob-sharpening machine. il Am Mach 62:902 Je 4 '25; Mach 31:832 Je '25
Circular cross-cut and rip saw filer. il Ry Mech Eng 99:186 Mr '25
Factory methods in mine shop make bit sharpening more scientific. diag Coal Age 28:641 N 5 '25
Hanson-Whitney sharpening machine. il Am Mach 63:449-50 S 10 '25
New machine reconditions friction saw blades. il Ry R 76:781-2 Ap 25 '25
Noyes small drill pointing machine. il Am Mach 61:172 Jl 24 '24; Mach 30:986-7 Ag '24
Sharpening a thousand chisels a day. F. A. Westbrook. il Sci Am 130:327 My '24

SHARPENING—*Continued*
Sharpening cutter knives in far away places. D. A. Hampson. diags Inland Ptr 74:577-8 Ja '25
Sharpening drill steel. W. R. Wade. Min Cong J 11:166-7 Ap '25
United Verde drill-sharpening shop. G: J. Young. il diags plan Eng & Min J 117: 570-1 Ap 5 '24

SHASTA, Mt
Mt Shasta's mighty river of mud. il Sci Am 132:9 Ja '25

SHAUGHNESSY, Thomas George, 1853-1923
Sketch. por Ry Age 75:1100 D 15 '23

SHAWINIGAN water and power company
Annual report, 26th, for 1923. Comm & Fin Chr 118:1034-5 Mr 1 '24
Annual report, 27th, of the board of directors for the year ending Dec. 31, 1924. Comm & Fin Chr 120:1104-5 F 28 '25

SHAWSHEEN, Massachusetts
Shawsheen: a town that pays its way. il Textile World 64:3565-8 D 15 '23

SHEARS (machines)
Alligator shear used in scrapping ships. il Iron Age 116:688 S 10 '25
Coupler yoke rivet shearing machine. E. A. Murray. il diags Ry Mech Eng 98:674-5 N '24
Doelger & Kirsten crushing feeder and double-blade alligator shear. il Am Mach 63: 289 Ag 13 '25
Electrically-operated billet shears. Engineering 119:163-4, 166 F 6 '25
Guillotine bar shears. il Ry Mech Eng 98:123 F '24
Long & Allstatter guillotine bar shears. il Am Mach 59:820 N 29 '23
Marshalltown double-rotary bevel shear, no. 234. il Am Mach 62:789 My 14 '25
New steel mill shears by the United engineering & foundry co. il Iron Age 114:90 Jl 10 '24
Pels hand shearing and bending machines for concrete-reinforcing bars. il Engineering 120: 355 S 18 '25
Pels steel-plate billet shear. il Am Mach 62: 600 Ap 9 '25
Rotary flying shears. diags Blast F & Steel Pl 12:238, 304 My-Je '24; Abstract. Mech Eng 46:425-6 Jl '24
Shearing device for drop-hammers. J: E. Unger. il diags Mach 31:224 N '24
Unishear motor driven cutting machine. il Mach 32:74 S '25; Am Mach 63:372-3 Ag 27 '25

Manufacture
Making alligator shears in new plant. il Iron Tr R 73:1433-4 N 22 '23
Manufacture of scrap-yard machinery; Milwaukee plant designed and equipped for exclusive production of alligator shears. G. L. Lacher. il plan Iron Age 112:1374-6 N 22 '23

Safety devices
Guard protects workman using metal shears. il Elec Ry J 65:1021 Je 27 '25
Guard recommended for shears. il Sheet Metal Worker 16:125 Mr 27 '25

SHEEP
Genetics and wool production. A. F. Barker. Textile Inst J 15:P134-40, P266-73, P524-35, P603-17 My, Jl, O, D '24
Genetics of the sheep, by J. A. F. Roberts and F. A. E. Crew. Review. Textile Inst J 16:P266-72 S '25
Investigations into the nature of British pedigree wools. Textile Inst J 15:P423-4, P496-9 Ag-S '24
Tendencies in sheep breeding. L. G. Connor. Textile World 67:1819-20+ Mr 14 '25
See also Wool

SHEET iron
Manufacture of Russian sheet iron. H. B. Collins. il Blast F & Steel Pl 13:15-16 Ja '25

SHEET metal
Allowances for 90-degree bends in sheet metals; data sheets. L. P. Vance. Mach 32:190a N '25
Factors affecting the warpage of sheet iron and steel in enameling. R. R. Danielson, T. D. Hartshorn and W. N. Harrison. il Am Cer Soc J 7:326-41 My '24
Handling flat stocks more economically. O. H. Rottmann. il Factory 32:116+ Ja '24
Materials for fuel tanks. Automotive Ind 53:4 Jl 2 '25
See also Sheet steel; Tin plate

Standardization
Simplified-practice recommendation on sheet metal. Mech Eng 47:144 F '25
Standardization of sheet metal. L. D. Mercer. Sheet Metal Worker 15:327-8+ My 23 '24
See also Sheet steel—Standards

Testing
Notes on the testing of metal strip. L. Aitchison and L. W. Johnson. diags Iron & Steel Inst J 109:433-47, pl 26; Discussion. 448-9 no 1 '24
Selecting material for drawn parts. L. N. Brown. il Blast F & Steel Pl 12:239-42 My '24

SHEET metal garages. See Garages, Sheet metal

SHEET metal houses
New method of housing construction in Hungary. Monthly Labor R 20:909 Ap '25

SHEET metal shops
Father and eight sons all sheet metal workers; Emil Steinhorst's & sons' plant. il Sheet Metal Worker 16:367-8 Je 19 '25
Production of perforated metalware. il diags Iron Age 113:701-5 Mr 6 '24
What's wrong here? L. Bromel. Sheet Metal Worker 15:322-3 My 23 '24

Equipment
Cylindrical drawing receptacle. W. H. Gruening. il diags Sheet Metal Worker 15:905-6 D 19 '24
Oxy-acetylene equipment and increased business. il Sheet Metal Worker 15:999-1000+ Ja 16 '25
Oxy-acetylene equipment for the sheet metal shop. il Sheet Metal Worker 15:535-6+ Ag 1 '24
Sheet metal working in British factories. W: J. Hiscox. Sheet Metal Worker 14:995-6+ Ja 18 '24
Welding as an aid to sheet metal shops. il Sheet Metal Worker 15:371-2+ Je 6 '24

Pattern storage
Why search for patterns? W. Scholl. diag Sheet Metal Worker 15:369-70 Je 6 '24

SHEET metal trade
Every sheet metal man his own salesman. W. Carter. Sheet Metal Worker 16:514+ Ag 14 '25
How to make a business profitable. L. E. Harris. il Sheet Metal Worker 16:548-50, 588 Ag 28-S 11 '25
If you are not using it,—you are behind the times; some facts about what the Sheet steel trade extension committee is doing. il Sheet Metal Worker 16:227-9 My 8 '25
Knowledge and business ethics. J: P. Wagner. Sheet Metal Worker 15:573-4 Ag 15 '24
May-June the season for farm ventilator sales. il diag Sheet Metal Worker 16:263-4+ My 22 '25
Need for standardization and aggressive publicity in sheet metal industry. G: H. Charls. Sheet Metal Worker 15:81-3 F 29 '24
Resolutions adopted at closing session of recent convention of National association of sheet metal contractors. Sheet Metal Worker 16:450 Jl 17 '25
Selling service-surveying. Sheet Metal Worker 16:269-70 My 22 '25
Small job as an avenue to profit. R. C. Nason. diags Sheet Metal Worker 15:675-6 S 26 '24

SHEET metal trade—*Continued*
Texas sheet metal ethical code. Sheet Metal Worker 16:405 Jl 3 '25
What rural districts offer the metal contractor. R. C. Nason. il Sheet Metal Worker 15:855-7+ D 5 '24
Where vacation time offers repair work opportunities. il Sheet Metal Worker 15:409-10 Je 20 '24

Accounting

Cost accounting for sheet metal shops. A. E. Munkel. Sheet Metal Worker 16:77+ Mr 13 '25
Details of an accounting system. L: P. Davis. Sheet Metal Worker 16:655+ O 9 '25
Good business methods. C. Young. diags Sheet Metal Worker 15:160-1+, 202-4+ Mr 28-Ap 11 '24
Practical cost accounting. C. Young. Sheet Metal Worker 16:196-7+, 233-4+, 267-8+ Ap 24-My 22 '25
Uniform accounting for the sheet metal worker. Sheet Metal Worker 15:758-9 O 24 '24

Advertising

Blotter advertising for contractors. il Sheet Metal Worker 16:612-13+ S 25 '25
Co-operative advertising for contractors. Sheet Metal Worker 15:379-80 Je 6 '24
Dollars and sense or careful advertising. D. O. Morley. il Sheet Metal Worker 14:834-5 N 23 '23
Making calendars pay. Sheet Metal Worker 15:860+ D 5 '24
Suggestions on group advertising. Sheet Metal Worker 16:3-4 F 13 '25
They multiplied their industrial inquiries twenty-five fold. H. Chandler. Ptr Ink 131: 17-20 Je 18 '25

See also Sheet steel—Advertising

Finance

Financing plan for sheet metal men. Sheet Metal Worker 15:939-40 Ja 2 '25

SHEET metal work
Arc welding sheet-metal parts. A. R. Luechinger. il Am Mach 60:425-7 Mr 20 '24
Comparative methods of tool design in relation to the quantity producion of sheet metal parts. D. H. Chason. il diags Mech Eng 46:531-4+ S '24
Controlling drawing-die pressure with air-cushion cylinders in conjunction with automatic pressure control. J: Nelson. il diags Am Mach 62:773-5 My 14 '25
Designing drawing dies. E: Heller. il diags Mach 30:579-82, 687-91 Ap-My '24
Dies for sheet-metal cover. F. H. Mayoh. diags Mach 31:947-8 Ag '25
Double seam versus Pittsburgh seam. diags Sheet Metal Worker 15:495-6 Jl 18 '24
Few examples of press work in making telephone instruments. il Am Mach 62:814 My 21 '25
Galley equipment on the S. S. Leviathan. il Sheet Metal Worker 16:124-5 Mr 27 '25
Gang slitters in the cutting-up shop. F. R. Daniels. il diags Mach 31:460-2 F '25
Hollow balls made from strips and tubing. il Iron Age 114:1544-5 D 11 '24; Automotive Ind 52:629 Ap 2 '25
Hollow seamless balls. F. D. Jones. il diags Mach 31:255-60 D '24; Abstract. Génie Civil 87:357-8 O 24 '25
Hot stampings and their production. G. F. Keyes. il Soc Auto Eng J 17:452-4 N '25; Discussion. 18:57-9 Ja '26
Instruction manual for sheet-metal workers. R. W. Selvidge and E. W. Christy. 167p Manual arts press '25
Jigs for sheet metal welding. il diags Sheet Metal Worker 15:710-12 O 10 '24
Lining tank with pure sheet tin. W: Neubecker. diags Sheet Metal Worker 16:401-3 Jl 3 '25
Lithographing 72,000 sheets daily; decoration of steel sheet and tin plate. J: D. Knox. il Iron Tr R 74:789-95 Mr 20 '24
Plate steel press brake. il Iron Age 116:963 O 8 '25
Practical hints on removing buckles and dents from sheet metal. E. Andrews. Am Mach 63:278-9 Ag 13 '25
Press work and welding combined in parts manufacture. L. S. Love. il Automotive Ind 53:704-6 O 22 '25
Press work upon a clutch part. A. Ferber. il diag Am Mach 60:302-3, 479 F 21, Mr 27 '24
Pressed metal parts replace castings. il Am Mach 60:398-9 Mr 13 '24
Seamless hollow metal balls. T. Dantzig. il diags Am Mach 61:877-80 D 4 '24
Sheet metal window refrigerators. W. Scholl. diags Sheet Metal Worker 15:671-3 S 26 '24
Sixty tons of ventilation; sheet metal work in the installation of ventilating and exhaust systems in the Phoenix knitting works, Milwaukee, Wis. C: H. Bishop. il Sheet Metal Worker 15:822-4+ N 21 '24
Solving some problems of a sheet-metal jobbing shop. S. A. McDonald. diags Mach 30: 462 F '24
Some details of the Holbol process. il Blast F & Steel Pl 13:137+ Mr '25
Things to know in working copper. J: F. Gowen. Sheet Metal Worker 16:49-50, 115-16+ F 27, Mr 27 '25
Tools for making a ribbon core. W: Denton. il diag Am Mach 62:819-20 My 21 '25
Unusual metal drawing. il diags Mach 30:588-9 Ap '24

See also Dies; Furniture, Metallic; Hooks—Manufacture; Metal spinning; Pipe elbows; Punching; Rolling mills; Shells (metal work); Stamping; Steel, Pressed; Tanks; Tubes; Water tanks

Estimating

Insuring against errors in estimating. Sheet Metal Worker 16:87-8 Mr 13 '25

Exhibitions

High lights on British sheet metal. A. Eyles. Sheet Metal Worker 15:530-1 Ag 1 '24

Pattern making

Automotive pattern drafting. W. Scholl. diags Sheet Metal Worker 14:940-1+; 15:41-3, 114-15+, 240-1, 329-30+, 414-15 Ja 4, F 15, Mr 14, Ap 25, My 23, Je 20 '24
Constructing single pitch skylight. W: Neubecker. diags Sheet Metal Worker 15:960-1+ Ja 2 '25
Copper roof over dormer window. W: Neubecker. diags Sheet Metal Worker 15:784-6, 820-1 N 7-21 '24
Designing a roof plate and skirt. diag Sheet Metal Worker 15:603+ Ag 29 '24
Developing patterns for dust pans. diag Sheet Metal Worker 15:78 F 29 '24
Discussion on design and layout of duct fittings. diags Sheet Metal Worker 15:569-71 Ag 15 '24
Heating, ventilating and blower fitting W: Neubecker. diag Sheet Metal Worker 15: 865, 996-7; 16:114, 237 D 5 '24, Ja 16, Mr 27, My 8 '25
Irregularly tapering elbow. diags plan Sheet Metal Worker 16:238-9+ My 8 '25
Making a non-spilling acid cup. F. W. Klay. diags Sheet Metal Worker 16:303 Je 5 '25
Making and bracing a cross. il diags Sheet Metal Worker 15:45 F 15 '24
Making blower fitting for fan work. W: Neubecker. Sheet Metal Worker 15:237, 539+ Ap 25, Ag 1 '24
Making copper lanterns. il diags Sheet Metal Worker 16:627+ S 25 '25
Making metal trash cans. W: Neubecker. diags Sheet Metal Worker 16:338-9 Je 19 '25
Metal work on spire, pinnacle and cross. W: Neubecker. diags Sheet Metal Worker 15: 381-3 Je 6 '24
Pattern for a helical or winding elbow. W: Neubecker. diags plans Sheet Metal Worker 15:458-9+ Jl 4 '24
Pattern for a roof plate. diags Sheet Metal Worker 15:578-9 Ag 15 '24
Pattern for a three-branched fitting. W: Neubecker. diags Sheet Metal Worker 15:896-9 D 19 '24

SHEET metal work—Pattern making—*Cont.*
Pattern for conical branch and cylinder. diags plan Sheet Metal Worker 16:582-3 S 11 '25
Pattern for rolling cookie cutter. W: A. Bottoms. il diags Sheet Metal Worker 15: 462+ Jl 4 '24
Pattern for sheet metal chimney saddle. diags Sheet Metal Worker 16:304-5+ Je 5 '25
Pattern for window box refrigerator. F. W. Klay. diags Sheet Metal Worker 16:693+ O 23 '25
Patterns for a special, curved fitting. W: Neubecker. diags Sheet Metal Worker 16: 160-2+ Ap 10 '25
Patterns for a transitional object. diags Sheet Metal Worker 16:194-5 Ap 24 '25
Patterns for heavy sheet metal work by computation. W: Neubecker. diags Sheet Metal Worker 13:718-20, 752-3, 800-1, 839+; 14:12-13, 49-50, 86-7, 317-20, 360-1+, 450-1+, 608-9, 683+, 721-2, 752-3, 786-7, 950+, 999+ N 24 '22-Ja 5, F 2-Mr 2, My 25, Je 8, Jl 6, Ag 31, S 28-N 9 '23, Ja 4-18 '24
Patterns for raking cornice work. W: Neubecker. diag Sheet Metal Worker 14:954+; 15:76, 157+, 280+, 418+, 501, 716-17, 828-9, 946-7, 1032-3 Ja 4, F 29, Mr 28, My 9, Je 20, Jl 19, O 10, N 21 '24, Ja 2, 30 '25
Swinging sash in skylight work. W: Neubecker. diags Sheet Metal Worker 16:681-4 O 23 '25
Twisted, compound, double curved fitting. W: Neubecker. il diags Sheet Metal Worker 15:1-3+ F 1 '24; Discussion. 15:158-9 Mr 28 '24
Universal sheet metal pattern cutter. W: Neubecker. 5th ed., enl. Sheet metal pub. co., New York '25

Study and teaching

Apprentices attend Carnegie Tech classes. Blast F & Steel Pl 12:507+ N '24
Apprenticeship training in Pittsburgh. W. C. Markle. Sheet Metal Worker 15:638-9 S 12 '24
National apprentice training plan. Sheet Metal Worker 16:407-8 Jl 3 '25
New Jersey apprenticeship plan. Sheet Metal Worker 16:230+ My 8 '25
Progress of apprenticeship education in Oakland. il Sheet Metal Worker 15:900 D 19 '24
Training in McKinley vocational school. H. E. Greiner. il Sheet Metal Worker 14:861-2+ D 7 '23
Training sheet metal workers at Carnegie. J. S. Daugherty. il Sheet Metal Worker 15: 575-6 Ag 15 '24
Vocational training in the sheet metal industry. J. S. Daugherty. Sheet Metal Worker 15:683-4+ S 26 '24

Tables, calculations, etc.

Chart giving weight of material required for stampings. R. L. Wakelee. chart Mach 31: 940-1 Ag '25

SHEET metal work, Architectural
Architect's viewpoint. A. L. Harris. Sheet Metal Worker 15:491-4 Jl 18 '24
Copper covered ferry bridge. il Sheet Metal Worker 16:541+ Ag 28 '25
Copper-gutter, roofing and flashing work. W: Neubecker. diags Sheet Metal Worker 16: 78-9+ Mr 13 '25
Covering dome with sheet copper. W: Neubecker. diags Sheet Metal Worker 16:614-15+, 648-9 S 25-O 9 '25
Directions on installing metal ceiling. diags Sheet Metal Worker 16:84-5 Mr 13 '25
Hose house of metal. Sheet Metal Worker 14:904 D 21 '23
How to bring back cornice work. G: Harms. diags Sheet Metal Worker 15:155-6 Mr 28 '24
Metal aplenty on W. Va. courthouse. H. G. Heinz. il Sheet Metal Worker 15:490 Jl 18 '24
Metal, metal in a metal worker's new house. W. Carter. il Sheet Metal Worker 14:943 Ja 4 '24
Metal work on spire, pinnacle and cross. W: Neubecker. diags Sheet Metal Worker 15: 381-3 Je 6 '24
Old church copper-jackets its cornice. il Sheet Metal Worker 16:589 S 11 '25
Oriental marquise for an oriental store. il diag Sheet Metal Worker 15:449-50 Jl 4 '24
Ornamental copper beautifies Brooklyn's newest store building. il Sheet Metal Worker 16:75-6+ Mr 13 '25
Sheet metal work all aluminum on school. il Sheet Metal Worker 16:337+ Je 19 '25
Sheet zinc for factory and residence. il Sheet Metal Worker 16:611+ S 25 '25
Stamped bronze replaces cast work for skylight dome. il Sheet Metal Worker 15:388-9 Je 6 '24
Stamped ornamentation supplants cast. il diags Sheet Metal Worker 15:953-4 Ja 2 '25
Stamped sheet metal aplenty on skyscraper. il diags Sheet Metal Worker 15:993-5 Ja 16 '25
Structural detail and layout of marquise. W: Neubecker. diags Sheet Metal Worker 15: 193-6 Ap 11 '24
Terra cotta cornice loose and dangerous replaced with copper. il diag Sheet Metal Worker 14:930-2 Ja 4 '24
Zinc-clad, English type store front. il diag Sheet Metal Worker 15:858 D 5 '24

See also Cornices; Finials; Flashing; Gutters (roof); Roof plates; Roofing, Copper; Roofing, Steel; Roofing, Zinc; Skylights

Specifications

Outline of tentative specifications for sheet metal. Am Arch 126:sup20+ Ag 27 '24

SHEET metal workers
The boy's first thousand miles; an appeal to employers for proper treatment of the sheet metal apprentice. W: E. Casey. Sheet Metal Worker 16:656-7 O 9 '25
Sheet-metal workers, Pittsburgh; labor agreement. Monthly Labor R 20:1275 Je '25
Sheet-metal workers, Rochester, N.Y.; labor agreement. Monthly Labor R 19:136 Jl '24
Sheet metal working in British factories. W: J. Hiscox. Sheet Metal Worker 14:995-6+ Ja 18 '24

SHEET metal working machinery
Hopper feed for round sheet-metal blanks. S. C. Hills. diags Mach 31:91-2 O '24
Root of the evil; why sheet metal working tools and machines so frequently go bad. L. Broemel. Sheet Metal Worker 16:379+ Je 19 '25
S. & S. beading, curling and trimming machine. il Mach 30:727-8 My '24

See also Corrugating machines; Folding machines

SHEET mills. See Rolling mills

SHEET piling
New French system of concrete sheet piling. F. Johnstone-Taylor. diags Concrete 23:208 N '23; Same. Eng & Contr (Ry) 61:130 Ja 16 '24
Novel sheet pile construction at New Orleans. L. M. Arms. il diags Ry Age 76:1023-5 Ap 26 '24
Steel sheetpiling in salt water at Havana, Cuba. il diags Eng N 92:1086-8 Je 26 '24

SHEET steel
Argentine fights locust pest with galvanized iron. Sheet Metal Worker 15:639 S 12 '24
Effects of composition on the properties of sheet steel enamels. H. G. Wolfram and W. N. Harrison. Am Cer Soc J 8:735-55 N '25
Fighting locusts with sheet steel. il Iron Age 115:1255-7 Ap 30 '25
Galvanized second sheets discussed at metal branch of National hardware association. Iron Age 115:1517-18 My 21 '25; Iron Tr R 76:1358-9 My 21 '25
Hoist that cuts 95% from loading labor. A. L. Greene. il Factory 33:798-9 D '24; Same. Management & Adm 8:652-3 D '24
Loose rolling gains favor among sheetmakers. J: D. Knox. il plan Iron Tr R 75:1706-11+ D 25 '24
Marketing galvanized seconds is problem. J. G: Fuchs. Iron Tr R 76:1318 My 21 '25
Oxwelding sheet metal. T. C. Fetherston. il Sheet Metal Worker 16:573-4+ S 11 '25

SHEET steel—*Continued*
Properties of electric sheet steel. C. H. Willis. Elec W 82:1005-7 N 17 '23
Raumsparende vorrichtungen für bandeisen-walzwerke. F. Funke. il diags Stahl & Eisen 44:823-5 Jl 10 '24
Service as applied to the sheet industry. Iron Age 113:1655-6 Je 5 '24
Sheet-steel automobile parts. J: Younger. il Am Mach 62:605-7, 951-4 Ap 16, Je 18 '25
Sheet steel executives annual meeting, White Sulphur Springs, W. Va., May 12-15. Iron Age 113:1497-1500+ My 22 '24; Iron Tr R 74: 1376-7 My 22 '24; Blast F & Steel Pl 12: 285-7 Je '24
Sheet steel executives 3d annual meeting, White Sulphur Springs, W. Va. Iron Tr R 76:1294-6 My 14 '25; Iron Age 115:1415-17+ My 14 '25; Sheet Metal Worker 16:281 My 22 '25
Sheet steel fabrication. S. Smith. il Soc Auto Eng J 17:389-97 O '25; Same, without il. Am Mach 63:543-5 O 1 '25
Sheet steel industry. W. S. Horner. il Blast F & Steel Pl 12:319-25 Jl '24; Excerpt. Sheet Metal Worker 15:452 Jl 4 '24
Sheet steel industry for 1924. W. S. Horner. Blast F & Steel Pl 13:257-9 Je '25
Tolerances in the rolling of steel sheets. Iron Age 113:497-9 F 14 '24
Use of sheet steel in preventing erosion. il Eng & Contr (G C) 64:411-14 Ag 19 '25
See also Partitions, Steel; Roofing, Steel

Advertising
Publicity campaign of the sheet steel manufacturers. L. D. Mercer. Sheet Metal Worker 15:751-2 O 24 '24

Specifications
Need sheet steel specifications. H. M. Williams. Iron Tr R 74:296-7 Ja 24 '24; Same. Automotive Ind 49:1148-50 D 6 '23; Same abr. Soc Auto Eng J 14:340-1 Mr '24

Standards
Progress in sheet steel simplification. Iron Age 113:1498-9 My 22 '24
Sheet standards reduce waste. Iron Tr R 75: 1097-8 O 23 '24
Sheetmakers will discuss sheet gages. Iron Tr R 77:656 S 10 '25
Simplification of sizes for steel sheets. Sheet Metal Worker 15:891+ D 5 '24
Standardization of sheet metal. L. D. Mercer. Sheet Metal Worker 15:327-8+ My 23 '24
Steel sheet simplification. Blast F & Steel Pl 12:508-10 N '24; Iron Age 114:1011 O 16 '24; Sheet Metal Worker 15:760 O 24 '24
Why not simplification in steel sheets? Iron Age 113:874-6 Mr 20 '24

Testing
Drawability of sheets and strips; Marco system of measuring. H. S. Marsh and R. S. Cochran. chart Iron Age 116:1251-2 N 5 '25
Sheet steel inspection. F. R. Pleasanton. Soc Auto Eng J 16:484 My '25
Testing of sheet steel. E. F. Collins. Soc Auto Eng J 17:290-1 S '25; Same abr. Mach 32:293 D '25
Tests properties of strip metal. L. Aitchison and L. W. Johnson. il diags plans Iron Tr R 74:1361-4 My 22 '24

SHEET steel executives convention
Annual meeting, 2d, White Sulphur Springs, W. Va., May 12-15. Iron Age 113:1497-1500+ My 22 '24; Iron Tr R 74:1376-8 My 22 '24; Blast F & Steel Pl 12:285-7 Je '24
Annual convention, White Sulphur Springs, W. Va., May 4-7. Iron Age 115:1415-17+ My 14 '25; Iron Tr R 76:1294-6 My 14 '25; Sheet Metal Worker 16:281 My 22 '25

SHEET steel trade extension committee
If you are not using it,—you are behind the times. il Sheet Metal Worker 16:227-9 My 8 '25

SHEFFIELD plate
Sheffield plate. J. D. Little. il Brass W 20: 129-31 Ap '24

SHELL money
Rossel Island money: a unique monetary system. W. E. Armstrong. Econ J 34:423-9 S '24

SHELL roads. See Roads, Shell

SHELL union oil corporation
Shell union maintains increase in profits during 1924. Nat Pet N 17:164-6 Je 24 '25

SHELLAC
A.S.T.M. standards for bleached shellac adopted. Oil Paint & Drug Rep 107:22 Je 29 '25
Finish patterns with shellac. W. C. Ewalt. Foundry 52:738-9 S 15 '24
Gums, waxes, shellac; market review. Oil Paint & Drug Rep 105:93-4 Mr 20 '24; 107: 89-91 Mr 26 '25
Report of sub-committee XIII on shellac. Am Soc T M Pro 24 pt 1:462-5 '24
Varnish makers' formulary; shellac varnishes. E. Perry. Oil Paint & Drug Rep 105:20+ My 12 '24

SHELLS (metal work)
Approximate dimensions of drawn shells. Mach 31:16a, 100a S-O '24
Dies for drawing aluminum shells. G: R. Caster. diags Mach 31:585 Mr '25
Difficulties in making tapered shells. J. Williams. il Am Mach 60:583-5 Ap 17 '24; Discussion. H. Osswald. 61:281 Ag 14 '24
Drawing a deep brass pan in one operation. F. G. Schutz and W. H. Fredrick. il diags Mach 30:467-8 F '24
Drawing a shell to accurate size. A. Ferber. il Am Mach 60:262 F 14 '24
Drawing double-walled steel shells. R. B. Hickey. diags Mach 30:592-4 Ap '24
Gaging device for small rifle shells. T. E. Welsh. diag Mach 31:813-14 Je '25
Hinged dies for piercing and trimming long shells. F. O. Hickling. diag Am Mach 61:666 O 23 '24
How would you make this shell? W: Denton. il Am Mach 61:782 N 13 '24
Knurling or fluting die. diag Mach 32:53-4 S '25
Method for determining blank diameters. R. L. Wakelee. diags Mach 30:704-5 My '24
Rolling threads on sheet-metal shells. J. Ellis. diags Mach 31:559-60 Mr '25
Rolling threads on thin brass shells. W. P. Doolittle. diags Am Mach 60:793-4 My 29 '24
Swelling die for aluminum shells. G: R. Caster. diag Mach 31:535 Mr '25

SHELTON, Frederick H., 1866-1924
Sketch. E. C. Brown. por Gas Age 55:121-2 Ja 24 '25

SHENANDOAH (airship). See Airships, Rigid—Failures

SHERARDIZING process. See Galvanizing

SHERMAN antitrust law, 1890
Federal antitrust laws with amendments. 182p Govt. ptg. off., Washington '23
Sales policies and anti-trust laws. G. H. Montague. Sales Management 9:477-8+ O 17 '25
Sherman witch on trial. E. Dakin. Comm & Fin 14:1139-40 Je 10 '25
Your business and the Sherman act. Brick & Clay Rec 64:572-3 Ap 15 '24
See also Trade associations; Trusts, Industrial

SHERRILL, Clarence O.
Dozens of jobs for one smiling man; Col. C. O. Sherrill, director of public buildings and public parks of the nation's capital. por il Nation's Business 13:27-9 S '25

SHERWIN-Williams company
Financial condition. Moody's Inv Serv 17:31 Ja 22 '25

SHIFT systems. See Hours of labor

SHINGLE mills
Cooperative shingle mills in western Washington. Monthly Labor R 18:170-8 Ja '24

SHINGLES
Another wooden shingle roof conflagration; Berkeley, California. A. C. Carruthers. il Safety Eng 46:237-42+ N '23

SHINGLES—*Continued*
Law or laxity; classification of towns prohibiting wooden shingle roofs. C. E. Worthington. Safety Eng 47:35-9 Ja '24
Plain facts for all roofers; a brief submitted in support of anti-wood shingle ordinance for Shreveport. Sheet Metal Worker 16:696-7 O 23 '25
Roofs and the annual fire loss. Sheet Metal Worker 16:620-1+ S 25 '25
Wooden shingle ordinances or wooden shingle fires—which? A. C. Carruthers. Safety Eng 46:288-91 D '23

See also Roofs

SHINGLES, Asphalt
Asphalt shingles. Arch & Bldg 56:95-6 O '24

SHINGLES, Clay
Shingle the roof with clay. il Brick & Clay Rec 66:822-3 My 26 '25

SHINGLING
Directions on laying metal shingles. il diags Sheet Metal Worker 16:690-2 O 23 '25
Framing for thatched roof effect. diags Eng & Contr (Bldgs) 61:1193-5 My 28 '24
Laying thatched slate shingles. diags Sheet Metal Worker 16:575-6 S 11 '25

See also Roofs; Shingles

SHIP-building. See Shipbuilding

SHIP chandlers
Selling sails on credit. H. P. Preston. Credit M 27:9+ S '25

SHIP foundries. See Foundries, Ship

SHIP libraries
Free ship library proves value. il Marine R 54:150-1 Ap '24
Maintaining a merchant marine library service. C. W. Shattuck. il Marine Eng 29: 75-6 F '24

SHIP models
Model experiments with anti-rolling tanks. H. J. R. Biles. diags Engineering 119:521-4 Ap 24 '25; Discussion. 119:445 Ap 10 '25
Results of some rolling experiments on ship models. M. P. Payne. diags Engineering 117:745-9, 777-80 Je 6-13 '24; Abstract. Marine Eng 29:551-3+ S '24; Abstract, with discussion. Engineer 137:409, 410 Ap 18 '24
Ship-models. E: K. Chatterton. 53p, 142 pl on 128 l The Studio ltd., London '23
Wake and thrust deduction of self-propelled models. E. M. Bragg. diags Marine Eng 30: 148-54 Mr '25

SHIP officers. See Neptune association of licensed masters and mates of ocean and coast-wise vessels

SHIP plates

See Plates, Iron and steel

SHIP propulsion
Chart showing how nations of the world divide ownership of oil burning, Diesel and coal burning vessels. Marine R 54:88 Mr '24
Diesel electric tug boat; comparative tests of Diesel electric, direct Diesel and steam driven tugs. F. L. DuBosque. diags plans Marine Eng 29:703-9; Discussion. 739-40 D '24
Effect of wind and waves on propulsion of ships. J. L. Kent. Marine Eng 29:536-42 S '24
Effect of wind and waves on the propulsion of ships. W. W. Smith. Marine Eng 30:33-5 Ja '25
Der erste deutsche turbinen radschleppdampfer Dordrecht. il diags plans Zeit Ver Deutsch Ing 69:341-5 Mr 14 '25
L'évolution des machines marines. F. Collin. Génie Civil 86:105-7 Ja 31 '25
Extent of cavitation in U.S. scouts and destroyers. E. F. Eggert. Marine Eng 29:744-6+ D '24; Same. Engineering 118:717-18 N 21 '24
Hydraulic transmission and reversing combined with mechanical reduction gears in motorships. il diags Marine Eng 30:440-1 Ag '25
Model propeller experiments in 3 nations compared. D. W. Taylor. diags Marine Eng 30: 36-45 Ja '25
New Australian motor liner Duisburg equipped with combined hydraulic-mechanical reduction gear and coupling. E. Foerster. diags Marine Eng 30:615-20 N '25
Planetary gearing; marine reversing gear. F. D. Furman. diags Mach 31:468-71 F '25
Power for ship propulsion. H. G. Hammar. Engineering 118:148 Jl 25 '24
Proceedings of the first World power conference; power for water transport. Engineering 118:118-21 Jl 25 '24; Engineer 138: 100-1 Jl 25 '24
Propelling machinery for tankers; cargo pumps. R. W. Morrell. Marine Eng 30:403-7 Jl '25
Propelling machinery of the new light cruisers. A. M. Charlton. diags Marine Eng 29:177-81 Mr '24
Propulsion by induced stream lines. C. M. Paxton. Marine R 55:300-1 Ag '25
La propulsion des navires par le vent au moyen d'une hélice aérienne (système Constantin); abstract. Constantin. Génie Civil 87:74-5 Jl 18 '25
Rees propeller-jet marine propulsion. il diags Engineer 139:494-5 My 1 '25
Rival methods of ship propulsion. Engineering 119:737-8 Je 12 '25
Ship Vulcan with Diesel-hydraulic drive. il diags Engineering 118:92-4 Jl 18 '24
Ten years' progress in marine propulsion. A. C. Ross. Engineer 138:22 Jl 4 '24; Abstract. Engineering 118:25-6 Jl 4 '24; Discussion. Engineer 138:19 Jl 4 '24
La transmission de l'arbre moteur à l'arbre porte-hélice sur les navires munis de moteurs Diesel. Lang and Dol. diags Génie Civil 86:286-9 Mr 21 '25
Trend of development of marine propelling machinery; abstracts. G: G. Goodwin. Engineering 118:669-71 N 14 '24; Engineer 138:548-9 N 14 '24
Vane-wheel propulsion of ships. W. Sisson. diags Engineering 119:162 F 6 '25
Vickers' Vista stern-tube appliances. diags Engineering 117:592 My 2 '24
Wake and thrust deduction of self-propelled models. E. M. Bragg. Marine Eng 30:148-54 Mr '25
Water rates and steam consumption of auxiliaries. E. A. Stevens, jr. and H. E. Brelsford. Marine Eng 29:427-30, 492-6, 547-50 Jl-S '24

See also Boilers, Marine; Diesel engines, Marine; Gas and oil engines, Marine; Marine engines; Motor ships; Propellers; Rotor ships; Rudders; Sailing vessels; Ship resistance; Steam turbines, Marine; Steamboats; Torsion meter

Tables, calculations, etc.
Modern tendencies in steam-turbine power plants. E. Berg and F. V. Smith. diags Mech Eng 46:577-82 O '24

SHIP propulsion, Electric
All electric sea going dredge. C: E. Fowler. il diag plan Eng & Contr (Ry) 62:155-7 Jl 16 '24
All-electric sea-going hopper dredges. H. C. Coleman. il diag Elec J 21:438-42 S '24
America's all-electric battle fleet. B. S. Havens. il Am Ind 24:5-10 F '24
Application of electric propulsion to double-ended ferry-boats. A. Kennedy, jr. and F. V. Smith. Am Inst E E J 44:1077-82 O '25; Same. Marine Eng 30:559-62 O '25
Army engineers build four seagoing electric dredges. il plans Eng N 93:57-9 Jl 10 '24
Atlantic refining company converts 7,500-ton tanker J. W. Van Dyke to Diesel electric drive. il diag Marine Eng 30:379-84 Jl '25; Marine R 55:259-61 Jl '25
Le bateau à moteurs Diesel et à propulsion électrique, La Plava. il diags Génie Civil 83: 581-5, pl 6 D 15 '23
Build Diesel-electric driven tanker. A. H. Jansson. il Marine R 54:168-74 My '24
Diesel-electric dredge A. Mackenzie completes trials. il Marine Eng 29:408-11 Jl '24
Diesel electric dredge Texas shows marked economy in operation. diag plan Marine Eng 29:341-2 Je '24

SHIP propulsion, Electric—*Continued*
Diesel-electric pipe-line dredge Clackamas. J. H. Polhemus. il diag plan Mech Eng 47: 605-12 Ag '25; Same cond. Eng & Contr (G C) 64:643-9 S 16 '25
Diesel-electric ship La Playa. T. H. Relton. il diag Gen Elec R 27:634-9 S '24
Diesel-electric tanker added to Standard oil fleet. il plan Marine Eng 29:234-7 Ap '24
Diesel electric towboat designed for river service. il plans Marine Eng 29:159-60 Mr '24
Diesel-electric tug Van Dyke 3. il plans Marine Eng 29:578-81 O '24
Direct current machines for merchant marine drive. H. E. Stokes. il diags Elec J 21:520-2 N '24
Electric ship propulsion. C: Rettie. bibliog diags plans Electrician 95:116-19 Jl 31 '25
Electrically-propelled battleship; U.S.S. Colorado. il Elec R (Lond) 93:701-3 N 9 '23
Electrically propelled passenger liners. A. Regnauld. Elec R (Lond) 94:765-6 My 9 '24; Discussion. P. J. Higgs. 94:832 My 23 '24
Die elektrotechnik im schiffbau und in der schiffahrt. Grauert. il diags Elektrotech Zeit 46:1337-42 S 3 '25
Ferry boats with turbo-electric drive. il Sci Am 130:389 Je '24
First Diesel-electric army dredge completed. il diags plans Marine Eng 29:230-3 Ap '24
First Diesel electric tug P.R.R. no. 16 passes successful trials and is now in general service in New York harbor. P. A. Sensenig. il Sibley J 38:201-3+ N '24
Fruit carrying motorship La Playa; fitted with Camellaird-Fullagar engines. il diags plans Marine Eng 29:20-4 Ja '24
Historical review of electrical applications on shipboard. H. L. Hibbard and W. Hetherington, jr. Am Inst E E J 44:261-3 Mr '25
Machinery trials, coast guard cutter Modoc. Q. B. Newman. diags plan Marine Eng 29: 94-105 F '24
Motors for ship propulsion. L: J. Hunt. diags Electrician 93:93-4 Jl 25 '24
Novel electric ferryboat in operation on the Willamette. Elec W 84:1301 D 20 '24
Operation of tow boats. W. J. Belsey. Electrician 95:120-1 Jl 31 '25
Pennsylvania railroad's Diesel electric tug. il Ry R 75:286-7 Ag 23 '24; Marine Eng 29: 522-3 S '24; Marine R 54:354-5 S '24
Power for marine purposes. W. T. Donnelly. Electrician 93:95-6 Jl 25 '24
Propelling machinery; the uses of electric transmission. W. J. Belsey. diags Electrician 93:97+ Jl 25 '24
Run from Duluth to Caribbean; two ships of unusual design. il diags map plans Marine R 54:1-11 Ja '24
Some developments in the electrical industry during 1924. J: Liston. il Gen Elec R 28: 7-9 Ja '25
Turbo-electric passenger and refrigerated ships for intercoastal service. il Marine Eng 30:606+ N '25

See also Electric boats

SHIP resistance
Effect of length on the skin friction of flat surfaces. T. E. Stanton and D. Marshall. diag plan Engineering 117:718-19 My 30 '24
Effect of wind and waves on the propulsion of ships. J. L. Kent. Engineer 137:475+ My 2 '24; Discussion. 137:477 My 2 '24; Engineering 117:516-17 Ap 25 '24
Experiment tank in relation to ship and propeller design. E. R. Mumford. Engineering 120:271-5 Ag 28 '25; Abstract. Engineer 140: 235 S 4 '25; Discussion. Engineering 120:282 S 4 '25
Form effects and form resistance of ships. W. G. A. Perring. diags Engineering 119:718-20 Je 5 '25
Frictional resistance of ships. G. S. Baker. Engineer 140:207-8 Ag 28 '25
Frictional resistance of surface of various forms. G. Kempf. il diags Marine Eng 30: 161-6 Mr '25; Discussion. 30:263-4 My '25
Propulsive performance of the corrugated ship. A. H. Haver and E. V. Telfer. plan Marine Eng 30:451-8 Ag '25; Abstracts with discussion. Engineer 139:430-1 Ap 17 '25; Engineering 119:472-3 Ap 17 '25
Resistance of low and average speed ships. J. C. A. Schokker. Marine Eng 29:432-4 Jl '24
Skin friction committee's report. Engineering 119:464-6; Discussion. 443 Ap 10 '25
Wetted surface. H: H. Schulze. diags Marine Eng 29:345-9 Je '24
Wetted surface resistance. Marine Eng 30: 303 My '25
Work of W. and R. E. Froude. A. W. Johns. Engineer 138:660-1, 687-9 D 12-19 '24

See also Ship propulsion

SHIP subsidies
Government aid to merchant shipping. G. M. Jones. U S Bur For & Dom Com 119:1-470 '25

SHIP yards. See Shipyards

SHIPBUILDING
Builds lake liner; Greater Detroit. il Marine R 54:376-9 S '24; Marine Eng 29:527+ S '24
Composite construction is improved. plan Marine R 55:294-5 Ag '25
Differenzieren und integrieren im praktischen schiffbau. W. Schmidt. Zeit Ver Deutsch Ing 68:100 F 2 '24
Economy in shipbuilding. A. D. MacDonnell. Marine Eng 29:455-8+ Ag '24
Fouling of steels. H: Williams. il Iron Age 113:876-7 Mr 20 '24
How the ravages of corrosion can be reduced. C. A. McAllister. Marine Eng 29:663-4 N '24
International shipping position; the problem of surplus tonnage paramount. F. C. Chappell. Annalist 23:502+ Ap 28 '24
Keeping your ships up-to-date. J. L. M. Inchcape. il Marine R 54:425-7 N '24
Die kleinwerkzeugmaschine im schiffbau. Feilcke. il Zeit Ver Deutsch Ing 69:283-8 F 28 '25
Manufacture of heavy steel castings for ships, with special reference to stern frames, rudders. shaft brackets and stems. H. P. Frear. il diag Engineering 116:726-9, 757-60 D 7-14 '23; Abstract, with discussion. Marine Eng 28:754-7 D '23
New steel for ships. A. C. Blackall. Iron Age 114:437 Ag 21 '24
Pocket book of ship materials and their uses. H. H. Thayer. 386p Simmons-Boardman pub. co., New York '24
Ship joinery. S. G. Duckworth. 215p Dutton '24
Shipbuilding and coal. M. Ballard. Marine Eng 30:620 N '25
Shipbuilding becomes steel fabricator. il Iron Tr R 75:737-9 S 18 '24
Shipping and shipbuilding during the past year. Marine Eng 29:8-13 Ja '24
Shipping and shipbuilding situation. Moody's Inv Serv 16:297-300 Jl 31 '24
Shipping companies; over-production of ships. Moody's Inv Serv 17:264 Ag 6 '25
Some problems in shipping and shipbuilding. Engineering 118:265 Ag 22 '24
Straight frame system of ship construction. Marine Eng 30:78 F '25
Structural notes on tankers. R. W. Morrell. diags Marine Eng 30:646-51 N '25
Werkzeugmaschinen für den schiffbau. L. Noé. il diags Zeit Ver Deutsch Ing 69:241-8, 279-82 F 21-28 '25

See also Barges; Bulkheads (naval architecture); Fire boats; Freight ships; House boats; Launching; Load line; Marine engines; Motor boats; Motor ships; Naval architecture; Navy yards and naval stations; Propellers; Rudders; Sailing vessels; Sea chests; Ship models; Ship propulsion; Ship resistance; Ships; Ships—Reconstruction; Ships—Repair; Ships, Iron and steel; Shipyards; Steam turbines, Marine; Steamboats; Submarine boats; Tank ships; Torpedo boat destroyers; Towboats; Warships

Accidents
Accidents in shipbuilding and ship-repairing work. Engineering 118:333-4 S 5 '24

SHIPBUILDING—*Continued*

Isherwood system

Bracketless system of shipbuilding for oil tankers. Marine R 55:439-40 N '25

Structural design and arrangement of tankers. R. W. Morrell. diags Marine Eng 30: 518-26 S '25

Statistics

Another slump in shipbuilding. Bradstreet's 53:482 Jl 25 '25

Difficulties of the world shipping and shipbuilding situation. Econ W n s 29:771-2 My 30 '25

Foreign trade and shipbuilding. R. Y. Sanders. Roy Statis Soc J 87:220-40; Discussion. 240-55 Mr '24

Lloyd's annual summary of the mercantile shipbuilding of the world. Engineering 119: 114-16 Ja 23 '25; Engineer 139:116-17 Ja 23 '25

Lloyd's register; annual summary. Engineer 137:102 Ja 25 '24; Engineering 117:106-7 Ja 25 '24

Lloyd's register of shipping; annual report. Engineer 136:482-3 N 2 '23; Engineering 116: 568 N 2 '23

Lloyd's register of shipping; annual report for the twelve months ended June 30th, 1924. Engineer 138:523-4 N 7 '24; Engineering 118:656 N 7 '24

Lloyd's register shipbuilding returns for the quarter ended March 31, 1925. Engineer 139:405 Ap 10 '25; Engineering 119:485 Ap 17 '25

Lloyd's register shipbuilding returns for the quarter ended June 30th. Engineer 140:70 Jl 17 '25; Engineering 120:83 Jl 17 '25; Comm & Fin Chr 121:261-2 Jl 18 '25

Lloyd's register shipbuilding returns for the quarter ended September 30. Engineer 140: 414-15 O 16 '25

Shipbuilding in 1924. Economist 100:46-8 Ja 10 '25

Shipping and shipbuilding. Index p 14-16 My '25

State of world shipbuilding at the end of 1924. Econ W n s 29:123 Ja 24 '25

United States one of few countries showing no increase in ship building orders. Comm & Fin Chr 119:417-18 Jl 26 '24

World shipbuilding as at June 30, 1924. Econ W n s 28:122 Jl 26 '24

World shipbuilding at lowest ebb. Marine R 55:293-4 Ag '25

World shipbuilding is slowing up. Marine R 55:184 My '25

World's shipbuilding drops off. Marine R 55: 423-4 N '25

Tables, calculations, etc.

Steel weight nomogram. E. V. Telfer. Marine Eng 29:720-3 D '24

Welding operations

Applications of arc welding to ship construction. E. H. Ewertz. Marine Eng 29:47-54, 114-17 Ja-F '24

Electric arc welding applied to shipbuilding. A. G. Bissell. il diags Marine Eng 29:617-20 O '24

Electric arc welding for shipbuilding. Strelow. il diags Electrician 95:146-7 Ag 7 '25

Residual stress and other fundamentals in the design of metal arc welded ships and welded structures in general. J. W. Owens. il diags Marine Eng 29:487-91 Ag '24

Germany

Der ausbau der Howaldtswerke, Kiel, in den letzten jahren. B. Meyer. il diags plan Zeit Ver Deutsch Ing 69:691-5 My 16 '25

Germany subsidizes shipbuilders. Am Ind 25: 35 Mr '25

Shipbuilding in Germany. Marine Eng 29:76 F '24

Shipbuilding in Germany. Engineer 139:356 Mr 27 '25

Great Britain

British shipbuilding. A. I. Percy, Duke of Northumberland. Engineer 139:376 Ap 3 '25

British shipowners find trade facilities act harmful. W. H. Wendon. Marine Eng 29: 211-12 Ap '24

Conditions in the shipbuilding industry; report of joint committee of the Shipbuilding employers' federation and shipyard trade unions. Engineer 140:443-4 O 23 '25; Engineering 120:515-16 O 23 '25

Future of sea transport; abstracts. A. Hurd. Marine Eng 29:327-8 Je '24; Engineer 137: 407-8 Ap 18 '24; Discussion. Engineer 137: 408-9 Ap 18 '24; Engineering 117:486-7 Ap 18 '24

Government supervision of shipping in England. F. R. Blair. Marine Eng 29:303-4 My '24

New scheme for reducing unemployment in England; ships building under Trade facilities act. W. H. Wendon. Marine Eng 29:269-70 My '24

Plight of the shipbuilding industry. Engineer 140:191-2 Ag 21 '25

Position of British marine engineering. A. J. Campbell. Engineer 140:386 O 9 '25

Shipbuilding in Great Britain now at lowest ebb. J. Swan. Marine Eng 28:727-8 D '23

Shipbuilding position. E. H. T. d'Eyncourt. Engineer 140:426-7 O 23 '25

State of British shipbuilding. Engineer 139: 301-2 Mr 13 '25

See also Warships—Great Britain

Italy

Italian shipbuilding industry. Marine Eng 29: 484 Ag '24

What peace has meant for the Italian shipbuilding industry. H: Obermeyer and A. L. Greene. il Am Mach 59:791-5 N 29 '23

Netherlands

Dutch shipbuilding and repairing. Engineering 119:238 F 20 '25

United States

Construction of S.S. Malolo progressing rapidly. il Marine Eng 30:621-3 N '25

Keel is laid for new Hawaiian liner; the S. S. Malolo. il Marine R 55:213-14 Je '25

Ship construction, 1915-1923. Survey of Cur Business 29:49, 50 Ja '24

Shipbuilding in the United States. Marine Eng 30:7-8 Ja '25

Shipbuilding makes headway. il diags plans Marine R 55:110-14+ Ap '25

U.S. yards build distinctive ships; American shipbuilding from Jan. 1, '23 to May 1, '24. il Marine R 54:201-2, 216-64 Je '24

SHIPMENT of goods

Better loading means more orders. S. E. Cogswell. Brick & Clay Rec 64:737-8 My 13 '24

Careful marking of export shipments. Mach 30:433 F '24

Cutting down shipping losses. H. H. Squire. il Management & Adm 9:47-50 Ja '25

Extreme variety versus standardization. J: H. Van Deventer. il Ind Management 67:303-8 My '24

14 gains in our shipping room's war on work. G. L. Gardiner. il Factory 35:563-5 O '25

From order received to freight-car door. J. M. Schappert. Factory 33:45-7+ Jl '24

Getting rid of the export box. G: F. Bauer. il Management & Adm 9:241-4 Mr '25

How automobiles should be loaded in the car. P. Alquist. il Ry Age 77:853-5 N 8 '24

How we even out the work of handling and shipping; Western electric company. C. I. DeWitt. System 46:770+ D '24

Lowered branch-house upkeep by car-route delivery. W. P. Jones. System 47:216+ F '25

Making freight shipments pay profits. R. T. Kent. map Management & Adm 9:159-62 F '25

Manufacturing methods in the shipping room. J: Newman. Factory 33:428+ S '24

Millions lost by bad marking. Elec W 84:194 Jl 26 '24

Our shipping court is a wide-mouthed funnel. E. E. Leeds. il Factory 35:316+ Ag '25

SHIPMENT of goods—*Continued*
Package problem as a factor in sales and profits. C. W. Hamilton. Sales Management 7:1901-2 D '24
Packing and despatching of goods. G: B. Lissenden. il Cassier's Ind Management 12:100-4 Ja '25
Packing and shipping oil and lubricants; methods in use at the Tide Water oil company. J. B. Edwards. il Management & Adm 8:59-64 Jl '24
Preparing and loading automobiles for shipment. B. R. Moore. il Soc Auto Eng J 15: 511-15 D '24
Saving millions by better loading. E: S. Evans. il Management & Adm 6:715-18 D '23
Shipper's desk book. J. A. Dunnage, ed. 178p Pitman '24
Simple methods of reducing damage to shipments. W. H. Upson, jr. Management & Adm 9:233-4 Mr '25
Tips from customers. B. A. Teeters. System 44:784 D '23
Visualizing overseas shipments. W: M. Benney. il Am Ind 25:14-17 N '24
What we gain by scheduling our shipments. R. C. Ross. il System 47:672-3+ My '25
When complaints begin to take the place of orders. il Sales Management 6:401-2 Ja '24
See also Automobiles—Transportation; Barrels; Coal—Transportation; Containers; Crates; Delivery of goods; Explosives—Transportation; Freight car service; Freight handling; Fruit—Transportation; Insecticides—Transportation; Livestock—Transportation; Machinery—Transportation; Packing for shipment; Petroleum—Transportation; Poisons—Transportation; Priorities, Industrial; Railroads—Claims; Railroads—Loading rules; Samples, Shipment of; Transportation

Safety measures
Warehouses and shipping rooms. il Nat Safety N 9:49-59 Mr '24

SHIPPERS advisory boards, Regional. See Regional shippers advisory boards

SHIPPING
Brassey's naval and shipping annual. A. Richardson and A. Hurd, eds. Review. Engineering 118:809 D 12 '24
Brassey's naval and shipping annual, edited by A. Richardson and A. Hurd. Review. Engineering 116:780-1 D 21 '23
Economic and financial progress in Europe, 1923-24. J. S. Davis. R Econ Statis 6:218-20 Jl '24
End of the shipping depression in sight. A. R. Marsh. Annalist 26:245-6 Ag 28 '25
Ex warehouse; freight forwarder and his functions. L. O. Welcome. il Dun's Int R 43:40-2+ My '24
Foreign trade and shipbuilding. R. Y. Sanders. Roy Statis Soc J 87:220-40; Discussion. 240-55 Mr '24
Freight forwarding in the United States and abroad. U S Bur For & Dom Com Trade Information Bul 310:1-14 '25
Future of sea transport; abstracts. A. Hurd. Marine Eng 29:327-8 Je '24; Engineer 137: 407-8 Ap 18 '24; Discussion. Engineer 137: 408-9 Ap 18 '24; Engineering 117:486-7 Ap 18 '24
Geneva conference and ocean shipping. E. T. Chamberlain. U S Bur For & Dom Com Trade Information Bul 202:1-24 '24
How Henry Ford loads ships and operates lake to ocean and coastwise services. A. H. Jansson. il Marine R 55:73-80 Mr '25; Abstract. Iron Tr R 76:696-8 Mr 12 '25
International shipping position; the problem of surplus tonnage paramount. F. C. Chappell. Annalist 23:502+ Ap 28 '24
Liability of ocean carriers for cargo damage or loss; progress toward uniform legislation. A. J. Wolfe. U S Bur For & Dom Com Trade Information Bul 297:1-23 '24
Manufacturers must have freight policy as well as a price policy. Ptr Ink M 9:69 S '24
Movement of raw materials and foodstuffs in international commerce and its relation to shipping. R. T. Merrill. Ann Am Acad 112: 234-40 Mr '24
Problems of the shipping industry. A. G. Anderson. Engineering 117:274 F 29 '24
Report of committee on co-ordination of rail and steamship activities; abstracts. Ry Age 77:1096 D 13 '24; Ry R 75:948-9 D 13 '24
Second International shipping conference. W. H. Wendon. Marine Eng 29:417-18 Jl '24
Shipping and shipbroking. C: D. MacMurray and M. M. Cree. 519p Pitman '24
Shipping and shipbuilding. Index p 14-16 My '25
Shipping and shipbuilding situation. Moody's Inv Serv 16:297-300 Jl 31 '24
Tramp steamship—world feeder. E. T. Chamberlain. maps Am Ind 25:29-32 Ag '24
See also Coal handling; Demurrage; Freight handling; Harbors; Insurance, Marine; Merchant marine; Ports; Priorities, Industrial; Salvage; Shipbuilding; Shipment of goods; Ships; Steamboats; Terminals; Tonnage; Transportation; Waterways; *also* International shipping conference

Accounting
Consignments, account sales, and accounts current. E. J. Hammond. 152p Pitman '24
Shipping finance and accounts. R. B. Paul. 68p Pitman '23

Law
See Maritime law

Rates
Deferred rebates and the shippers. S. G. Riggs. Annalist 22:730-1+ D 3 '23
Port differential investigation concluded. H. F. Lane. Marine Eng 29:637-8 N '24
Protest of Secretary of agriculture Wallace against advance in ocean freight rates on packers' shipments. Comm & Fin Chr 118: 1098-9 Mr 8 '24
Rate procedure of steamship conferences. E. S. Gregg. U S Bur For & Dom Com Trade Information Bul 221:1-16 '24
Shipping board investigating port differentials. Bradstreet's 52:653-4 O 11 '24
Shipping board orders port differential inquiry. H. F. Lane. Marine Eng 29:513 S '24

Statistics
Decline in world shipping the past three months. Comm & Fin Chr 121:1856-7 O 17 '25
Difficulties of the world shipping and shipbuilding situation. Econ W n s 29:771-2 My 30 '25
Liner tonnage in oversea trades. E. T. Chamberlain. Am Ind 26:19-21 Ag '25
Lloyd's register of shipping. Engineer 138: 85-6 Jl 18 '24
Lloyd's register of shipping. Engineer 140: 44-5 Jl 10 '25; Engineering 120:50-1 Jl 10 '25
Lloyd's register of shipping; annual report. Engineer 136:482-3 N 2 '23; Engineering 116: 568 N 2 '23
Lloyd's register of shipping; annual report for the twelve months ended June 30th, 1924. Engineer 138:523-4 N 7 '24; Engineering 118:656 N 7 '24
Merchant shipping grows. Am Ind 25:12 F '25
Shipping and shipbuilding during the past year. Marine Eng 29:8-13 Ja '24
World's merchant shipping. Engineering 118: 98-9 Jl 18 '24

Terminology
F. A. S., C. & F. and C. I. F. il Dun's Int R 43:48 Je '24
Forty meanings for F.O.B.'s. G: Cary. Nation's Business 12:32-3 Je '24
Free on board. il Dun's Int R 43:47-9 Mr '24
Trade terms explained. Cassier's Ind Management 11:270 My 15 '24

Canada
Preston report and the Petersen contract. Economist 100:530-2 Mr 21 '25

SHIPPING—Canada—*Continued*
Shipping inquiry at Ottawa. Economist 100: 1172-3 Je 13 '25

Great Britain

Britain's mercantile marine. V. Delport. Marine R 55:321-3 S '25
British shipowners analyze performance of motorships and discuss shipping combines and restriction of coastwise trade. W. H. Wendon. Marine Eng 29:77-80 F '24
British shipping and shipbuilding developments. W. H. Wendon. il Marine Eng 29:369-70 Je '24
British shipping holds its own. V. Delport. Marine R 55:217-18 Je '25
British shipping in 1924. Economist 100:242-4 F 7 '25
British shipping is more active. H. C. Estep. il Marine R 54:41-4 F '24
How British shipping freights restrict trade. Chem Age (Lond) 11:167 Ag 16 '24
Outlook for British shipping. Economist 100: 337-8 F 21 '25
Shipping companies' profits. Economist 98: 1192-3 Je 14 '24
Shipping companies' profits. Economist 100: 1233-5 Je 20 '25
Shipping in 1923. Economist 98:90-2 Ja 19 '24
Shipping position and outlook. Economist 101: 222-3 Ag 8 '25
Shipping prospects. Economist 99:857-9 N 29 '24
Strikes retard British shipping. H. C. Estep. Marine R 54:175-6 My '24
Wage demands of British seamen granted. W. H. Wendon. Marine Eng 29:485-6 Ag '24

See also Shipbuilding—Great Britain

South America

Shipping of the West and East coasts of South America. E. T. Chamberlain. U S Bur For & Dom Com Trade Information Bul 304: 1-34 '25

Southern states

South's development from the shipping viewpoint. L. C. Palmer. Manuf Rec 86:137-9 pt 2 D 11 '24

United States

Bulk freight movement on Great Lakes for 23 years, gross tons. Marine R 54:66a F '24
Finds work for idle fleet; Port Newark. il Marine R 54:418-21 N '24
Great Lakes shipping establishes new records. Marine Eng 29:138+ Mr '24
How the industrial development of the Philippines will aid the American merchant marine. V. Villamin. Marine Eng 29:17-19 Ja '24
Ocean transportation, 1922-1924. Survey of Cur Business 30:162-3 F '24 [continued quarterly]
Restriction of American coastwise shipping approved by National chamber of commerce. Marine Eng 30:359+ Je '25
Robert Dollar—mariner and trader. V. G. Iden. Marine Eng 29:517-19 S '24
Shipping companies. Moody's Inv Serv 17:202 Je 18 '25
Shipping legislation recommended to Congress. H. F. Lane. Marine Eng 30:5-7 Ja '25
Shipping on the Great Lakes has an unprofitable year. Marine Eng 30:195-8 Ap '25
Snare of preferential export rail rates as a device to aid government shipping. S. G. Riggs. Annalist 23:369 Mr 24 '24
Traffic through American ports. G. R. Young. Eng N 93:641 O 16 '24
Urge certificates to help ships. il Marine R 54:440-1 N '24
Will save by use of U.S. ships. E. C. Plummer. Marine R 54:134-5 Ap '24

See also Merchant marine—United States; Merchants and miners transportation company; United States—Emergency fleet corporation

SHIPPING board. See United States—Shipping board

SHIPPING cases. See Containers

SHIPPING conference, International. See International shipping conference

SHIPPING conferences
Deferred rebates and the shippers. S. G. Riggs. Annalist 22:730-1+ D 3 '23

SHIPS
Efficient store department. A. C. Hustler. il Marine R 55:47 F '25
Fowey. J: P. Carter. il diag Chem Age (Lond) 10:sup9-10 My 17 '24
Lookoutman. D: W: Bone. 220p Harcourt '23
Merchant ship types. A. C. Hardy. 316p Van Nostrand '24
Die rheinschiffahrt. Zilcher. il diags plans Zeit Ver Deutsch Ing 69:1065-70 Ag 8 '25
Seaworthiness. B. J. Ives. Engineering 119: 356-7 Mr 20 '25
Ships of the seven seas. H. Daniel. 321p Doubleday '25
Story of the seaman. J: F. Meigs. 2v Lippincott '24
Tale of our merchant ships. C: E. Cartwright. 275p Dutton '24
Turbo-electric passenger and refrigerated ships for intercoastal service. il Marine Eng 30:606+ N '25

See also Airplane carriers; Cable laying and supply ships; Fire boats; Freight ships; House boats; Ice-breaking vessels; Launching; Lighters; Lightships; Load line; Loading and unloading—Ships; Maritime law; Merchant marine; Motor ships; Naval architecture; Navies; Navigation; Pilots and pilotage; Propellers; Radio telegraph on ships; Radio telephone on ships; Refrigeration on ships; Repair ships; Rudders; Safety at sea; Sailing vessels; Salvage; Salvage ships; Ship propulsion; Ship propulsion, Electric; Ship resistance; Shipbuilding; Shipping; Shipwrecks; Shipyards; Steamboats; Steering gear; Submarine boats; Tank ships; Torpedo boat destroyers; Towboats; Warships; *also* Carnegie (yacht); Constitution (frigate)

Auxiliary machinery

Choosing auxiliaries for a motorship. il diags Marine R 54:321-4 Ag '24
Electrically-driven ships' auxiliaries; Austin system. diags Elec R (Lond) 95:79-80 Jl 11 '24; Engineering 118:734-5 N 28 '24
High-efficiency steam installations for ship propulsion, with special reference to the question of auxiliary machinery. S. S. Cook. Engineering 120:335-7 S 11 '25; Abstracts. Elec R (Lond) 97:431-2 S 11 '25; Engineer 140:270 S 11 '25; Discussion. Engineering 120:316, 383 S 11, 25 '25; Engineer 140:271 S 11 '25
How to select auxiliary power; problems of power and heat as affected by use of Diesel engines. S. Halle. Marine R 54:461-2 D '24
Marine type triple-expansion pumping engine. diags Engineering 119:477-80 Ap 17 '25
Les moteurs électriques à bord des navires. F. Collin. Génie Civil 86:515-17 My 23 '25
Motor liner Aorangi. il diags Engineer 139: 106, 110-12 Ja 23 '25
New system of driving ship and other auxiliaries. G. Austin. diags Engineer 138:580 N 21 '24
Ships' auxiliary machinery; the electric motor drive. L. Miller. Elec R (Lond) 94:768-9 My 9 '24
Turbine drive for auxiliary machinery. R: W. Allen. Marine Eng 29:554-5+ S '24
Water rates and steam consumption of auxiliaries. E. A. Stevens, jr. and H. E. Brelsford. Marine Eng 29:427-30, 492-6, 547-50, 611-16, 676-81; 30:52-4+ Jl-N '24, Ja '25

Cargo

Economical design of transatlantic liners. C. E. Petersen. Marine Eng 30:624-8 N '25
Influence of trading conditions on the design of intermediate passenger vessels. W. G. Cleghorn. Marine Eng 30:343-4 Je '25

See also Freight ships

SHIPS—*Continued*

Cost of operation

Economical design of transatlantic liners. C. E. Petersen. Marine Eng 30:624-8 N '25
Economics of transatlantic liners of various lengths. C. E. Petersen. Marine Eng 28: 759-63; Discussion. 753 D '23
How the Shipping board is reducing operating costs. Marine Eng 29:14-16 Ja '24
Internal-combustion and steam engines for high-speed passenger vessels. J: Biles. diags Engineering 119:414-17, 462-4 Ap 3-10 '25; Same. Marine Eng 30:293-301 My '25; Same cond. Engineer 139:388-9 Ap 3 '25; Discussion. Engineering 119:424-5 Ap 3 '25; Engineer 139:377, 379 Ap 3 '25

Disinfection

Cyanogen chlorid fumigation at Canal Zone ports. W. C. Rucker. il Nation's Health 6: 387-9 Je '24

Electric equipment

Care and use of electric winches. A. O. Loomis. il Marine R 54:456-60+ D '24; Same cond. Elec J 21:568-73 D '24
Electric cooking for marine use. il Marine Eng 29:309-10 My '24
Electrical engineer in the merchant marine. G. A. Pierce. il Am Inst E E J 44:747-52 Jl '25
Electrically-equipped yacht. Mahceeb. il Electrician 95:17 Jl 3 '25; Elec R (Lond) 97:62 Jl 10 '25
Electricity on board ship; the electrical installation of the t.s.s. Orama. il Elec R (Lond) 96:124-7 Ja 23 '25
Electricity on board the world's largest motor liner, Aorangi. il Elec R (Lond) 96:619-21 Ap 17 '25
Electricity on ships; equipment of the s.s. Orama. il diag Electrician 93:668-70 D 12 '24
Electrifying the modern Pacific coast passenger liner; S.S. Matsonia. M. R. Hickman. il J Elec 51:326-9 N 1 '23
Die elektrotechnik im schiffbau und in der schiffahrt. Grauert. il diags Elektrotech Zeit 46:1337-42 S 3 '25
Find more uses for electricity. W. H. Wild. Marine R 54:501+ D '24
Historical review of electrical applications on shipboard. H. L. Hibbard and W: Hetherington, jr. Am Inst E E J 44:249-63 Mr '25
How to select auxiliary power; problems of power and heat as affected by use of Diesel engines. S. Hall. Marine R 54:461-2 D '24
Independent marine generating plant has many advantages. E. T. Keyser. il Am Exporter 95:93+ Jl '24
Ships use central station power while in port. L. B. Sawyer. Elec W 84:221 Ag 2 '24

See also Radio telegraph on ships; Radio telephone on ships; Ship propulsion, Electric; Ships—Auxiliary machinery; Ships—Lighting

Equipment

Leviathan's machine shop. C. Hutchinson. il Am Mach 62:614-15 Ap 16 '25
Practical solution of some shipboard problems. C. C. McMillan. il diags Marine Eng 29:556-8 S '24
Traditions you must buck in marine selling. C. W. Hamilton. il Sales Management 8: 330-2 F 21 '25

See also Boilers, Marine; Davits; Foundries, Ship; Logs (ships); Nautical instruments; Speed indicators; Winches

Failures

Structural damage sustained by S.S. Majestic. E: Ellsberg. plan Marine Eng 30: 430-1 Ag '25

See also Shipwrecks

Fires and fire protection

Combating marine fire hazards. J. I. Banash. Nat Safety N 9:46 F '24
Fire casualties can be reduced. A. H. Jansson. il Marine R 55:209-12 Je '25
Fire hazards of fuel oil. G. B. Vroom. Marine Eng 30:279-80 My '25

Heating and ventilation

Ventilating passenger and crew accommodations. W. E. Spofford. plans Marine Eng 29:412-17 Jl '24
Ventilation of ships after fumigation with poisonous gases. Safety Eng 48:22-3 Jl '24

Kitchens

Galley equipment on the S. S. Leviathan. il Sheet Metal Worker 16:124-5 Mr 27 '25

Lighting

Electric lighting sets on the steamer District of Columbia. il Marine Eng 30:264-6 My '25
Lighting system of the S. S. Leviathan. W. N. Zippler. il Illum Eng Soc 19:28-42 Ja '24

Manning

Call of the sea. D. Gaehr. Marine Eng 29: 453-4 Ag '24

See also Motor ships—Manning; Seamen

Measurement

How Panama canal tolls are assessed. M. L. Walker. Marine R 55:235 Je '25; Same. Marine Eng 30:318 Je '25
Measurement of vessels. 4th ed. 133p United States Bureau of navigation, Washington '25
Tonnage legislation and its application to the measurement of ships. E. W. Blocksidge. diags plan Marine Eng 30:345-50 Je '25

Medicine chests

See Medicine chests

Oil burning

See Boilers, Marine—Oil firing

Painting

Report of sub-committee XXIII on anti-fouling paints. il Am Soc T M Pro 24 pt 1:491-504 '24

Performance

British shipowners analyze performance of motorships and discuss shipping combines and restriction of coastwise trade. W. H. Wendon. Marine Eng 29:77 F '24
Propulsive performance of the corrugated ship. A. H. Haver and E. V. Telfer. plan Marine Eng 30:451-8 Ag '25

See also Steamboats—Performance

Piping

Copper and brass piping saves money. Marine R 54:44-5 F '24

Reconstruction

Former passenger vessel Bienville is converted into the freight vessel El Coston. il Marine R 55:373-4 O '25
Put idle troop ships to work. il plans Marine R 54:188-93 My '24

See also Motor ships—Steamboat conversion

Repair

Application of gas to ship repairing. J. M. Loughland. Gas J (Lond) sup 4:136-8 Je 24 '25
Electric arc welding applied to ship repairing. A. G. Bissell. il diags Marine Eng 30: 179-80 Mr '25
Reconditioning the Leviathan. W: F. Gibbs. W Soc E J 28:533-42 D '23
Ward liners reconditioned in record time. il Marine Eng 30:396-400 Jl '25

See also Dry docks; Repair ships

Sanitation

Fumigation of ships by gas; experiments in the use of hydrogen cyanide. Chem Age (Lond) 9:515 N 10 '23
Sewage ejection. W. E. Spofford. diags Marine Eng 29:664-5 N '24

SHIPS—*Continued*

Size

How ship growth affects ports. J: H. Walsh. Marine R 54:48-54 F '24; Same abr. Marine Eng 29:39-43 Ja '24

Speed

Economical speed for tankers. R. W. Morrell. Marine Eng 30:356-9 Je '25

Effect of wind and waves on the propulsion of ships. J. L. Kent. Engineer 137:475+ My 2 '24; Discussion. 137:477 My 2 '24; Engineering 117:516-17 Ap 25 '24

High speeds at sea. Engineer 138:267-8 S 5 '24

Nouvelle méthode pour la détermination de la vitesse d'un navire sur les bases. H. Brillié. Génie Civil 85:293-6 O 4 '24

Speed and cruising radius. Marine Eng 30: 642-3 N '25

See also Logs (ships)

Stability

Ein beitrag zur theorie des Schlickschen schiffskreisels. M. Schuler. diags Zeit Ver Deutsch Ing 68:1224-6 N 22 '24

Drift of ships caused by rolling; abstracts with discussion. K. Suyehiro. Engineer 137: 409-10 Ap 18 '24; Engineering 117:488 Ap 18 '24

Instructions for displacement and stability calculations under the Bureau of construction and repair. 257p U.S. Bur. of construction and repair, Navy dept., Washington '23

Model experiments with anti-rolling tanks. H. J. R. Biles. diags Engineering 119:521-4 Ap 24 '25; Discussion. 119:445 Ap 10 '25

Results of some rolling experiments on ship models. M. P. Payne. diags Engineering 117: 745-9, 777-80 Je 6-13 '24; Abstract. Marine Eng 29:551-3+ S '24; Abstract, with discussion. Engineer 137:409, 410 Ap 18 '24

Stability and seaworthiness. C. F. Holt. Engineering 119:494-6, 524-5 Ap 17-24 '25; Same. Marine Eng 30:501-7 S '25; Discussion. Engineering 119:471-2 Ap 17 '25; Engineer 139:430 Ap 17 '25

Stability of merchant vessels. Marine Eng 30: 2-4 Ja '25

United States requires inclining tests for passenger ships. diag Marine R 55:317-19 S '25

See also Ships—Vibration

Strains and stresses

Fractures and topside weaknesses of ship structures. Marine Eng 30:268-9 My '25

Telephone

Strowger automatic telephones afloat. il Elec R (Lond) 96:622-3 Ap 17 '25; Electrician 94:486 Ap 24 '25

Testing

Machinery trials, coast guard cutter Modoc. Q. B. Newman. diags plan Marine Eng 29: 94-105 F '24

See also Ship models

Ventilation

See Ships—Heating and ventilation

Vibration

Etude des vibrations d'un remorqueur à moteurs Diesel de 1 400 C.V. diags Génie Civil 84:73-4 Ja 19 '24

Natural periods of vibration of ships. E. H. Rigg. Marine Eng 29:301-2 My '24

Water supply

See Water supply for ships

SHIPS, Concrete

See Barges, Concrete

SHIPS, Corrugated

Propulsive performance of the corrugated ship. A. H. Haver and E. V. Telfer. plan Marine Eng 30:451-8 Ag '25; Abstracts with discussion. Engineer 139:430-1 Ap 17 '25; Engineering 119:472-3 Ap 17 '25

SHIPS, Iron and steel

Hulls built of steel channels prove capable in service. W. G. Bartenfeld. il Iron Tr R 77: 898-900 O 8 '25; Same. Marine R 55:362-4 O '25

New steamer for New Bedford-Nantucket service. il diags plans Marine Eng 29:285-9 My '24

Scantling development in iron and steel merchant ships. J. F. King. diags Engineering 120:305-8 S 4 '25; Abstract. Engineer 140: 235-6 S 4 '25; Discussion. Engineering 120: 282-3 S 4 '25; Engineer 140:236 S 4 '25

Ships of steel channels. il diag Marine R 54: 92-4 Mr '24; Same abr. Iron Tr R 74:736-7 Mr 13 '24

SHIPWORMS

See Teredos

SHIPWRECKS

Board reports on capsizing of steamer M. E. Norman. diags map Eng N 95:387-9 S 3 '25

River disaster marks end of Mid-South engineering convention; towboat M. E. Norman capsizes on Mississippi. W. W. De Berard. Eng N 94:827-9+, 855-7 My 14-21 '25

Wreck statistics for 1923. Engineer 138:193 Ag 15 '24

Wreck statistics for 1924. Engineer 140:222 Ag 28 '25

See also Life saving apparatus; Lifeboats; Safety at sea; Salvage

SHIPYARDS

Les chantiers de Couéron (Loire-Inférieure) de la Compagnie générale de constructions navales. A. Bidault des Chaumes. plans Génie Civil 84:10-12, pl 1 Ja 5 '24

New dry dock and ship-repairing yard at Swansea. il diag plans Engineer 137:540, 544-6, 576, 577 My 16-23 '24

One of the world's greatest ship yards at Newport News now largely changing to new lines of activity. S: G. Wilmer. Manuf Rec 85:79-82 Ap 24 '24

Reiherstieg shipbuilding yard. Engineering 120:117-18 Jl 24 '25

See also Navy yards and naval stations; Shipbuilding

Electric equipment

Electrification of a shipyard; developments on the Tyneside. il Electrician 91:545 N 16 '23

Employees

American shipyard apprenticeships, evening schools and scholarships. C: F. Bailey. Marine Eng 28:747-8 D '23

Shipyard labour conditions: British and foreign. E. T. Good. Engineer 139:660 Je 12 '25

Equipment

Construction of a reinforced concrete workshop building at Elsinore. il diags Engineering 116:547-51, 562 N 2 '23

SHIRLEY institute

Work of Shirley institute. A. W. Crossley. Textile World 66:2148+ O 18 '24

SHIRTS

Fitting the sales plan to present day buying tendencies; Earl & Wilson extend assortment plan of selling. J. B. Wright. Sales Management 7:1340+ Ag '24

Manufacture

Cotton work shirt materials. J. W. Cox, jr. Textile World 65:1871+ Mr 15 '24

Factory pay-roll control in the shirt industry. M. L. Siegel. Management & Adm 7: 311-15 Mr '24

SHOCK absorbers

Crane shock absorber. il Ry Mech Eng 98: 497 Ag '24

Flentje shock absorber has piston with rocking motion. diag Automotive Ind 50:141 Ja 17 '24

Hassler friction type shock absorber for balloon tired cars. il Automotive Ind 51:201 Jl 24 '24

Hydraulic device has two adjustments. il Bus Transportation 3:578 D '24

SHOCK absorbers—*Continued*
Hydraulic shock-absorbers, their design, construction and application. E. A. Adams. diag Soc Auto Eng J 14:345-6 Mr '24
New Italian shock absorber. diag Automotive Ind 52:587 Mr 26 '25
Notes on chassis lubrication and maintenance. A. F. Masury. il diags Soc Auto Eng J 14: 641-6 Je '24; Same abr. Automobile Eng 14: 305-7 O '24
Road shocks. diags Automobile Eng 15:329-33 O '25
Rubber shock insulators on taxicabs and motor cars. il India Rubber W 69:225-6 Ja '24
Shock-absorber and snubber-device developments. W. B. Groves. Soc Auto Eng J 17: 293 S '25
Shock absorbers for flying boats. il diags Aviation 19:386-7 S 28 '25
Spring-movement and vibration study of cars in action. T. J. Litle, jr. diags Soc Auto Eng J 13:445-9 D '23

Testing

How rubber shackle blocks are inspected and tested. il Automotive Ind 50:1236-7 Je 5 '24

SHODDY
Textile by-products; mungo, shoddy etc. E. B. Fry. Textile Inst J 16:P60-4 Mr '25

SHOE factories
Glimpse into the works of the Endicott-Johnson corporation. il Ind Eng 81:568-70 D '23
How to put flexibility into all-concrete factory buildings. M. G. Farrell. il Factory 32:173-4+ F '24

Accounting

Shoe factory accounting and cost keeping. H. P. Cobb. 392p Jacobsen pub. co., Chicago '24

Costs

Policy of a shoe manufacturer with regard to special orders. Harvard Business R 3:348-56 Ap '25

Employees

Boot and shoe industry; decision of Haverhill shoe board. Monthly Labor R 21:761-4 O '25
Boot and shoe industry, Haverhill, Mass.; labor agreement. Monthly Labor R 20:574-6 Mr '25
Labor conditions in the shoe industry in Massachusetts, 1920-1924. R. S. Billups and P. L. Jones. U S Bur Labor Statistics Bul 384: 1-46 '25; Abstract. Monthly Labor R 21:15-17 Jl '25
Labor movement in the shoe industry. A. E. Galster. 237p [bibliog. p. 225-9] Ronald press '24
Shoe industry; Brockton and Haverhill, Mass. Monthly Labor R 18:586-8 Mr '24
Shoe workers agreement in New York city. Monthly Labor R 20:331-2 F '25
Wage agreement in the boot and shoe industry of England. Monthly Labor R 20:344-5 F '25
Wages and hours of labor in the boot and shoe industry: 1907 to 1924. U S Bur Labor Statistics Bul 374:1-107 '25
Wages and hours of labor in the boot and shoe industry, 1913 to 1924. Monthly Labor R 18:1252-62 Je '24
See also Shoemakers

Management

Management factors in the shoe industry; marketing and manufacturing problems. S. E. Thompson and W. E. Freeland. diags Management & Adm 8:75-81 Jl '24

SHOE industry and trade
Control of retail distribution by a shoe company. Harvard Business R 2:502-5 Jl '24
Helping the merchant sell goods he won't stock. R. Crothers. Ptr Ink M 8:41-2 Ja '24
How Walk-over shoes are sold under ninety flags. R. W. Johnson. il Sales Management 8:27-8 Ja 10 '25
How we get our salesmen to follow our policies. M. S. Florsheim. Ptr Ink M 9:41-2+ N '24
Improvement in leather and shoe trades. Dun's R 32:7-8 F 2 '24
International trade in boots and shoes. Comm M 6:22-30 Ja '25
Management factors in the shoe industry; marketing and manufacturing problems. S. E. Thompson and W. E. Freeland. diags Management & Adm 8:75-81 Jl '24
Our records tell us—. I. R. Jacobs. il System 47:51-3 Ja '25
Policy of a shoe manufacturer with regard to special orders. Harvard Business R 3: 348-56 Ap '25
Profits too low? cut the price! J. Johnson. Ptr Ink M 10:17-18+ Ap '25
Story of a pair of shoes. F. S. Tisdale. Nation's Business 13:15-18 My '25
W. L. Douglas set aside many traditions in marketing shoes. R. W. Johnson. Sales Management 7:1590+ O '24

Advertising

Cincinnati shoe manufacturers unite to win back lost trade. Sales Management 8:41 Ja 10 '25
Inside view of a free publicity plan. Ptr Ink 125:101-2+ N 22 '23
One-cent mailing folder brings orders from 820 new dealers. G: H. Wicker. Ptr Ink 130: 177-8+ Mr 26 '25
William L. Douglas—a manysided advertising pioneer. Ptr Ink 128:33-4 S 25 '24

Directories

Directory of United States exporters of boots and shoes and other leather manufactures. U S Bur For & Dom Com misc ser 127:1-30 '24

Australia

Boot and shoe industry and trade of Australia. E. G. Pauly. U S Bur For & Dom Com Trade Information Bul 195:1-7 '24

Egypt

Boot and shoe industry and trade of Egypt. R: A. May. U S Bur For & Dom Com Trade Information Bul 334:1-11 '25

Great Britain

Boot and shoe companies' profits. Economist 98:414-15 F 23 '24
Boot and shoe companies' profits. Economist 100:338-9 F 21 '25
Shoes, leather, and hides in Great Britain. N. Hertz. il U S Bur For & Dom Com 226: 1-201 '24

New England

Shoe manufacturing industry of New England. 30p Boston Chamber of commerce, Bur. of commercial and industrial affairs, Boston '25

Scandinavia

Boot and shoe industry and trade in Scandinavian countries. H. Sorensen. U S Bur For & Dom Com Trade Information Bul 300: 1-12 '24

United States

Boot and shoe production large for calendar year, but small in December. Comm & Fin Chr 118:732 F 16 '24
Cross-currents in shoe manufacturing. Bradstreet's 53:417 Je 27 '25
Depression in the leather and shoe industries. Comm & Fin 13:1035 My 28 '24
Leather and footwear trades. Dun's R 32: 8-9 My 31; 8-9+ S 27 '24; 33:8-9 My 16; 8-9 S 12 '25
Leather outlook more hopeful. Nat City Bank p 14-19 N '24
Production of boots and shoes in the United States in the first half of 1925. Econ W n s 30:376 S 12 '25
Shoe and leather improvement. Nat City Bank p 82-3 My '25

SHOE industry and trade—United States —*Continued*
Shoe company's acquisition of a competitor's stock violated Clayton act is the position of a majority of the commission. Nation's Business 13:92+ O '25

See also Shoe factories—Employees; *also* Douglas, William L.

SHOE patterns

Advertising

Put a vital spark in that humdrum product. Ptr Ink 127:17-18 My 8 '24

SHOE stores
Hanan shoe stores. A. D. Seymour, jr. Arch Forum 40:264 Je '24

SHOEMAKERS

Diseases and hygiene

Occupational stigma on the breast of shoemakers not yet described in literature. M. Oppenheim. J Ind Hygiene 6:67-9 Je '24

SHOENBERGER works
Centenary of Shoenberger works. il Iron Age 116:141-3 Jl 16 '25

SHOES
Chemistry and comfort; relation between the chemical composition of leather and the comfort of shoes made therefrom. J: A. Wilson and A. F. Gallun, jr. Ind & Eng Chem 16:268-9 Mr '24
Feet, floors and health. A. B. Emmons. il Nation's Health 6:171-2 Mr '24
Shoe question—and some answers. R. B. Osgood. il Nation's Health 7:22-3 Ja '25
Strength and stretch of shoe upper leathers. il Chem & Met Eng 31:12-13 Jl 7 '24
Ventilating properties of leather. J: A. Wilson and G: O. Lines. diags Ind & Eng Chem 17:570-3 Je '25
What the shoe reveals about the foot. H. M. Wright. il Sci Am 131:242 O '24

See also Leather; Shoe factories; Shoe industry and trade; Soles, Rubber

Bibliography

Books about shoes. (Bul. no. 4) 19p Illinois. University. Bur. of business research, Urbana '24

Color

Spring shoe colors for 1925. Color Tr J 15: 131 N '24

Manufacture

Large uses of steel in small ways. Iron Tr R 74:1117-18 Ap 24 '24
Time and labor costs in manufacturing 100 pairs of shoes, 1923. U S Bur Labor Statistics Bul 360:1-154 '24

SHOES, Canvas
1926 line of canvas footwear. il India Rubber W 73:65-7 N '25

SHOES, Rubber
Founder of the rubber shoe industry; Thomas C. Wales. India Rubber W 73:67 N '25
1924 rubber footwear line. il India Rubber W 70:715-17 Ag '24
Perhaps the dealers are not the right kind; Converse rubber shoe co. sells to deep-sea fishermen. T: F. Walsh. Ptr Ink 130:133-4 F 12 '25

See also Soles, Rubber

Manufacture

Manufacture of light rubber shoes. India Rubber W 70:787-9 S '24
Rubber shoe making in 1876. il Rubber Age 16:227-8 Ja 10 '25
Separator paper for rubber footwear manufacture. India Rubber W 73:75-6 N '25
What we learned from a graveyard of ideas; importance of human factor. R. C. Kelley. Factory 34:264-5+ F '25

SHOES, Tennis
Machine method of manufacturing tennis shoes. il India Rubber W 71:335-7 Mr '25
1925 tennis line; basketball shoes, bathing shoes, etc. il India Rubber W 71:77-9 N '24
1926 line of canvas footwear. India Rubber W 73:65-7 N '25

SHONKINITE
Peculiar shonkinite related to granite. F. F. Grout. il Am J Sci 5th ser 9:472-80 Je '25

SHOOTING, Military
Wired wireless and loud speakers take the place of telephone operators in handling the targets on the range. H. W. Webbe. il Radio N 5:866+ Ja '24

SHOOTING, Rifle. See Rifle shooting

SHOP committees
Establishment of works councils in Luxemburg. Monthly Labor R 21:480-1 S '25
Industrial democracy in Sweden. E. Wigforss. Int Labour R 9:667-79 My '24
Industrial relations work of the Bridgeport brass company. C. F. Dietz. Metal Ind 23: 320-1 Ag '25
Legal nature and economic significance of the German works councils. H. Dersch. Int Labour R 11:169-79 F '25
New co-operative developments on the B. & O. Ry Age 76:543-5 Mr 8 '24
Operation of works committees in Czechoslovakia, 1922. Monthly Labor R 19:44-7 Jl '24
Shop councils develop practical co-operation. Ry Age 77:153-7 Jl 26 '24
Standard time system established by the Westinghouse electric & mfg. co., East Pittsburgh, Pa. Foundry 51:947-9 D 1 '23; Same. Iron Tr R 74:1370-2 My 22 '24
Why our labor costs are low. F. L. Sweetser. il System 44:733-6+ D '23

See also Employees' representation in management; Industrial relations

SHOP fronts. See Store buildings

SHOP management
Alertness as a factor in operation. Management & Adm 7:24 Ja '24
Improved shop operation at Albuquerque, N. M. il Ry Mech Eng 98:333-42 Je '24
Shop management. F: W. Taylor. Mech Eng 46:806-7 pt 2 N '24

See also Automobile service stations—Management; Employment management; Engineering colleges—Shop management; Factory management; Foundry management; Industrial management; Job work; Machine shop management; Mechanical handling; Organization in industry; Railroads—Shops; Repair shops—Management; Routing systems; Schedules; Shop committees; Tool rooms

SHOPLIFTING
Sticky fingers—profits gone! R. Barstow. Nation's Business 13:71+ Mr '25

SHOPPING news movement. See Retail trade —Advertising

SHOPS

See Blacksmith shops; Electric railroads—Shops; Electric shops (repair); Locomotive shops; Machine shops; Motor bus lines—Shops; Plumbing shops; Railroads—Shops; Structural shops; Woodworking shops

SHOPS, Railroad. See Electric railroads—Shops; Railroads—Shops

SHORE protection
Angular submerged tree planting to prevent erosion of river banks, lake shores and embankments. il Can Eng 48:171-3 Ja 27 '25; Same. Eng & Contr (G C) 64:637-41 S 16 '25
Effect of groyning on some parts of the English coast. R: F. Grantham. Engineering 116:631 N 16 '23
How Santa Monica, Calif., protects its valuable ocean front property. Eng N 95:382-3 S 3 '25
New Jersey engineers study shore erosion and protection. Eng N 95:598-600 O 8 '25
Ocean Beach esplanade, San Francisco, California. M. M. O'Shaughnessy. il map Am Soc C E Pro 49:1846-59, pl 8-9 N '23; Discussion. 50:223-5, 351-72, 526-8 F-Ap '24

SHORE protection—*Continued*
Protection of lake shores. il Can Eng 49:147 Jl 21 '25

See also Breakwaters; Bulkheads; Flood control; Levees; Mattresses (hydraulic engineering); Rivers—Bank protection; Sand dunes; Sea walls, Concrete

SHOREHAM, England

Bridges

Bridge reconstruction work of the Ministry of transport. Engineering 119:755-7, 768, pl 48 Je 19 '25

SHORING and underpinning
Adjustable shores against 4 x 4 wood shores. E. C. Harding. Am Concrete Inst Pro 21: 95-6 '25; Same. Concrete 26:127 Ap '25; Discussion. Am Concrete Inst Pro 21:97-9, 106 '25
Deep foundations replace piles tilting to river. il diag Eng N 94:818-19 My 14 '25
Foundation under settling 175-ft. chimney reinforced. W. Z. Kline. il diags Eng N 95: 262-3 Ag 13 '25
Foundations under steam plant renewed without shutdown. C. P. Dunn. il Eng N 94:888-90 My 28 '25
Methods of shoring excavations for foundations for buildings. J. M. Piggott. Eng & Contr (Bldgs) 61:463-4 F 27 '24; Same. Can Eng 46:261 F 19 '24
Methods used in shoring and removing heavily loaded columns; Exchange national bank of Tulsa. K. Johnson. il diags plan Am Arch 125:411-15 Ap 23 '24
New method for supporting building columns. G. E. Goodall. il Eng N 94:145-6 Ja 22 '25; Discussion. R. L. Bertin. 94:368 F 26 '25
Prompt column repair prevents building collapse. il Eng N 93:950-2 D 11 '24
Rotted piles necessitates rebuilding of plant foundation. il Power Pl Eng 29:749 Jl 15 '25
Settlement and righting of a factory building in Holland. il diags Engineering 117:174-6 F 8 '24
Structural surgery. il diags Am Arch 128:367-72 O 20 '25
Sub-basements of newspaper plant built by progressive underpinning. E. S. Parker. il Eng N 93:597-8 O 9 '24
Support of buildings with vertical shoring. il diag Bldg Age 46:152+ N '24
Underpinning printing plant for new deep foundations. il diags Eng N 93:982-5 D 18 '24
Underpinning Trinity church with pipe piles. H. de B. Parsons. il diags plan Eng N 95: 668-70 O 22 '25
Underpinning without shores. diag Concrete 23:195-6 N '23

See also Building; Foundations

SHORT circuits
Alternator short-circuit currents; the calculation of sudden rushes based on physical phenomena. A. Fraenckel. diags Electrician 92:224-5 F 22 '24
Analytical solution of networks. R. D. Evans. diags Elec J 21:149-54 Ap '24
Application of decrement factors in short-circuit studies. W. R. Woodward. Elec J 21: 213-16 My '24
Die ausbreitung der luft- und erdfelder um hochspannungsleitungen besonders bei erd- und kurzschlüssen. R. Rüdenberg. diags Elektrotech Zeit 46:1342-6 S 3 '25
Berechnung des ein-, zwei- und dreipoligen dauerkurzschlussstromes in kraftwerken und netzen. F. Ollendorff. diags Elektrotech Zeit 46:761-8 My 21 '25
Calculation of short-circuit ground currents on three-phase power networks, using the method of symmetrical co-ordinates. S. Bekku. diags Gen Elec R 28:472-8 Jl '25
Determination of single-phase short-circuit current on three-phase systems. Gen Elec R 28:467 Jl '25
Effect and prevention of short circuits. B. G. Jamieson. diags Elec W 83:815-17 Ap 26 '24
Der einfluss des stromreglers auf das abklingen des kurzschlussstromes von turbogeneratoren. R. Pohl. il Elektrotech Zeit 45:805-6 Jl 24 '24
Equivalent single-phase networks for calculating short-circuit currents due to grounds on three-phase star grounded systems. R. A. Shetzline. diags Am Inst E E J 43:1014-20 N '24; Discussion. 44:293-5 Mr '25
Foretelling the effect of short circuits. Sci Am 130:393 Je '24
Initial and sustained short-circuits in synchronous machines. V. Karapetoff. diags Am Inst E E J 44:855-62; Discussion. 880-6 Ag '25
Kurzschlussstrom bei doppelerdschluss. T. Panzerbieter. Elektrotech Zeit 45:719-20 Jl 3 '24
Mechanical stresses in busbar supports during short circuits. O. R. Schurig and M. F. Sayre. Am Inst E E J 44:365-72 [bibliog. p. 372] Ap '25
Short-circuit calculations. R. Rader. diags Elec W 84:261-2 Ag 9 '24
Short circuit currents. il Electrician 94:755 Je 26 '25
Short-circuit currents in large plants. R. Rüdenberg. Elec W 85:727-8 Ap 4 '25
Short-circuit currents of synchronous machines. R. F. Franklin. bibliog diags Am Inst E E J 44:863-72; Discussion. 880-6 Ag '25
Short circuit phenomena. G. L. E. Metz. Electrician 91:568-70 N 23 '23
Short-circuiting of slip-ring motors. F. E. Bell. diag Elec W 85:927 My 2 '25
Short circuits of alternating-current generators. C. M. Laffoon. Am Inst E E J 43:736-43 Ag '24; Discussion. 43:1187-90 D '24
Single-phase short-circuit calculations. W. W. Lewis. diags Gen Elec R 28:479-90 Jl '25
Strom- und spannungsverhältnisse in vermaschten drehstromnetzen beim dauerkurzschluss. B. Koetzold. Elektrotech Zeit 45: 740-2 Jl 10 '24
System calculating board. E. F. Pearson. il Elec W 85:723 Ap 4 '25
Transformer short-circuit tests. diags Elec R (Lond) 96:531-2 Ap 3 '25; Electrician 94:396 Ap 3 '25

Calculating board

Finding single-phase short-circuit currents on calculating boards. R. D. Evans. diags Elec W 85:760-5 Ap 11 '25
Short-circuit calculating board. L. G. Smith. il diag Elec W 84:308-11 Ag 16 '24
Short-circuit calculating board. E. R. Stauffacher. il Elec W 86:223-4 Ag 1 '25
Short-circuit calculating table. S. M. Jones. il diags Elec W. 86:847-50 O 24 '25
Simulation of system short circuit; construction details for building a calculating board. R. C. Denny. il diag Elec W 84:1211-13 D 6 '24

SHORT line railroad association, American. See American short line railroad association

SHORT line railroads. See Railroads, Short line

SHORTHAND

See also Stenographers

Dictation

Dictation for modern business. J: G. Kirk and G: E. Mumford. 430p John C. Winston co., Philadelphia '24
Expert dictator. C. J. Saphier and T: J. Smyth. 386p Pitman '25

SHOT effect
Determination of elementary charge E from measurements of shot-effect. A. W. Hull and N. H. Williams. diag Phys R 25:147-73 F '25
Schottky effect in low frequency circuits. J. B. Johnson. diags Phys R 26:71-85 Jl '25
Theory of the schrot-effect. N. Campbell. Philos Mag 6th ser 50:81-6 Jl '25
Theory of the schroteffekt. T. C. Fry. diags J Fr Inst 199:203-20 F '25

SHOVELING
New light on pick and shovel work. D. H. Gillette. il Eng & Contr (Ry) 63:581-6 Mr 18 '25

See also Excavating machinery; Excavation

SHOVELING machines
Gasoline or electric shovel. H. S. Strouse. il Brick & Clay Rec 65:110 Jl 22 '24
Getting more work from a stripping shovel. A. F. Brosky. il Coal Age 26:141-4 Jl 31 '24
Power shovels save drudgery of hand mucking. il Coal Age 25:277-8 F 21 '24
Recent developments in open-pit mining. R. Marsh, jr. il Eng & Min J 119:643-7 Ap 18 '25

See also Electric shovels; Steam shovels

SHOVELING machines, Tractor
Brown petrol-driven convertible shovel and crane. il diag Engineering 120:277 Ag 28 '25
Excavateur Bucyrus, à moteur à essence, et à chenilles. il diags Génie Civil 84:277-8 Mr 22 '24
Installing crawlers on shovel. plan Eng & Contr (G C) 64:672 S 16 '25
Martin tractor shovel. il Eng & Contr (Equip R) 61:237 Ja 30 '24
Mechanical shovel for subway work; Bucyrus co. il Engineer 139:633 Je 5 '25
Thew centre drive truck. il Can Eng 48:241 F 17 '25

SHOVELS, Electric. See Electric shovels

SHOW cards
Armour salesmen distribute store signs. T. C. Costello. Ptr Ink 133:129-30 O 15 '25
Artistic show-cards, how to design and make them. E. L. Koller. 77p McKay '24
Elements of show card writing. J: H. DeWild. 53p Associated advertising clubs of the world, New York '23
Making your own show cards. M. L. Heller. diags Am Exporter 94:16-17 Ja; 37+ Je '24
Ticket and show card designing. F. A. Pearson. 74p Pitman '23
Window displays that can be used inside the store. E. B. Weiss. Ptr Ink M 9:54+ D '24

SHOW cases
Lighting
Display case lighting in stores. J. L. Stair and W: Foulks. il diags Illum Eng Soc 20:113-29; Discussion. 129-34 F '25
Display-case lighting potential field for contractors. J Elec 54:290 Ap 15 '25

SHOW rooms. See Showrooms

SHOW windows
A. Stein and company jumps window showings for Paris garters from 1,300 to 20,000 in seven years. C. B. Larrabee. Ptr Ink 129:97-100 O 23 '24
Architecture of the small shop. il diags Arch Forum 43:97-112 Ag '25
Art of decorating show windows and displaying merchandise. L: A. Rogers. 5th ed. 353p Merchants record co., Chicago '24
Art of window displays. H. E. Smith. il Am Gas J 120:587-8+ Je 28 '24
Attracting attention to your show windows. H. O. Sauer. il diag Sanitary & Heat Eng 102:292-3 O 31 '24
Better the window display the more sales. F. H. Williams. Am Gas J 121:771-2 Ag 23 '24
Candy displays make good use of crepe paper. il Am Exporter 94:43+ Je '24
Color and light as expert salesmen. D. E. Wheeler. Ptr Ink M 8:92+ Ap '24
Dealer helps that really help sell more merchandise; Cooper underwear company starts a monthly display service. il Sales Management 8:743-4 My 16 '25
Dealer who wants to put half his stock in his windows. J. Kraus. Sales Management 8: 959-60 Je 27 '25
Dealer writes on ideas that help the dealer with window displays. A. H. Van Voris. Ptr Ink 126:73-4+ Mr 13 '24
December window display for sanitary contractors. H. O. Sauer. diags Sanitary & Heat Eng 102:361-3 N 28 '24
Department store displays. L. A. Rogers. il Dun's Int R 43:42-4 Je '24
Development of the arcaded shop front. il plans Arch Forum 40:269-72 Je '24
Discussion of window displays. Am Gas Assn Commercial sec v 5:653-8 '23
Don't try to hog the entire window. H. F. King. Ptr Ink 130:117-18+ F 5 '25
Easter gift displays of gas appliances. E. A. Dench. il Am Gas J 120:341-2 Ap 12 '24
Financial windows of the Mid-west. M. E. Chase. il Bankers M 111:191-7+ Ag '25
Focus the prospect's attention—then sell him. il J Elec 52:215 Mr 15 '24
For manufacturers interested in better window displays. Ptr Ink 128:147-8+ Jl 3 '24
Four principles of successful store display. F. D. Fonda. Ptr Ink 133:121+ O 22 '25
Gas for summer comfort in the home. W. B. Stoddard. il Gas Age 54:163-4 Ag 2 '24
Getting down to hardpan on window display problems. Ptr Ink 129:97-8+ O 9 '24
Giving the dealer a short course in window display. Ptr Ink M 10:104+ Mr '25
How Hickok dovetails window display with consumer advertising. H. W. Schulze. Ptr Ink 129:161-2 O 2 '24
How Squibb is studying window display. F. H. Peck. Ptr Ink 127:41-2+ Je 26 '24
How to capitalize your windows. M. E. Chase. il Bankers M 108:546-9+ Ap '24
How to get summer display used. A. Bradbury. il Ptr Ink M 11:71 Ag '25
How to make the dealer's window produce more sales. Ptr Ink 133:33-4+ O 15 '25
How Wahl enlists dealer cooperation in window display campaigns. il Sales Management 6:838 Ap '24
How window displays increase sales. Ptr Ink M 9:112+ Ag '24
How window displays stand today. C. B. Larrabee. Ptr Ink 133:49-50+ N 5 '25
Ideas for the man who sells. W: H. Matlack. il Am Gas J 123:135-6 Ag 15 '25
Ideas for the window trimmer. W: H. Matlack. chart diag Am Gas J 120:219-20 Mr 8 '24
Ideas that pull through the window. K. E. Olson. il Burroughs Clearing House 8:12-14+ S '24
Increasing toy sales by skilful window and counter displays. B. T: Royce. il Dun's Int R 45:45-9 My '25
An invitation—accepted; window trimming. H. A. Tallett. il Gas Age 55:459-60+ Mr 28 '25
It'll be your fault if Christmas shoppers pass by your plumbing establishment this December. E. A. Dench. il Sanitary & Heat Eng 104:274-6+ O 30 '25
Lending windows to plumbers. R. E. Naylor. il Dom Eng 109:28-9 D 13 '24
Let the display sell results instead of materials. il J Elec 52:27 Ja 1 '24
Making the window convey the sales message. R: Savage. il Am Exporter 94:19-23+ My '24
Manual of show window backgrounds for mercantile displays. E. O. Burdg. 249p Merchants record and show window, Chicago '25
Modern mercantile displays. L. A. Rogers. il Dun's Int R 43:37-40 My '24
News interest in window displays. il Am Exporter 95:18-20 Jl '24
Open sesame to the dealer's window. W. E. Hardy. Ptr Ink 133:183-4 O 8 '25
Part played by window display in Welch advertising plans. C. H. Gager. Ptr Ink 129: 129-30 O 9 '24
Pass the word down to the dealer—it's slick-up time! C. Jennings. Automotive Ind 53: 414-16 S 10 '25
Photographs boost window sales. A. G. King. Dom Eng 111:20 My 16 '25
Playing to the passing thousands. H. J. Plogstedt. il Burroughs Clearing House 9: 8-9+ N '24
Providence windows act as appliance salesmen. J. E. Bullard. il Gas Age 54:845-6 D 13 '24

SHOW windows—*Continued*
Put some action in your dealers' windows. W. B. Edwards. Ptr Ink 128:130+ S 11 '24
Put the customer's viewpoint in window displays. Ptr Ink M 11:118+ Jl '25
Replies to a questionnaire on bank window displays. W. J. Parham, jr. Ptr Ink 133: 160+ O 22 '25
Retail view of manufacturer's window display. J. T. Northrupp. Gas Age 54:882 D 20 '24
Retailers helped plan this window trim. R. Crothers. il Ptr Ink M 8:25+ Je '24
Scientific salesmanship; principles of window dressing. D: Autton. il Electrician 92:16, 109-10 Ja 4, 25 '24
Securing human interest in window display. L. E. Lindsay. System 48:106+ Jl '25
Selling more merchandise through better window displays. G: L. Black. il J Elec 53: 283-7 O 15 '24
Selling the management on display. L. E. Lindsay. Am Gas Assn Commercial sec v 6:572-6 '24
Setting the stage for gas company displays. J. R. Jennings. il Gas Age 56:685-6+ N 7 '25
Showrooms; are they necessary? do they pay? N. S. Smith. il Gas J (Lond) sup 3:62-4 Mr 26 '24
Simms makes the window pay dividends. il Sheet Metal Worker 15:709 O 10 '24
Small shop display windows. il plans Arch Forum 42:103-20 F '25
Some effective window displays. R: Savage. il Am Exporter 94:20-3+ Je '24
Ten experiences with window displays. R. A. Barbour. Ptr Ink 128:33-4+ Ag 21 '24
These window display plans get more showings. F. H. Peck. Ptr Ink 130:97-100 Ja 22 '25
Think twice on traveling window displays. Ptr Ink 128:53-4 S 4 '24
Try it with light, action and color. C. E. Schiffner. Burroughs Clearing House 9:48-50 Ja '25
Using trade advertising to get window space. E. B. Weiss. Ptr Ink 129:136+ D 11 '24
Value of window and store display. W: G. Bergner. il Sanitary & Heat Eng 102:215-17+, 262-5 O 3-17 '24
What are the essentials of a good window display? il Gas Age 55:171-2 Ja 31 '25
What manufacturers are doing with window display. C: G. Muller. Ptr Ink 128:85-6+ S 18 '24
What 100 advertisers think of window displays. C. B. Larrabee. Ptr Ink M 11:50+ N '25
What window display should do. B. J. Mullaney. Ptr Ink 133:166 O 15 '25
When magic visits Main St dingy old shop fronts disappear for good. il Bldg Age 47: 127 S '25
When the dealer can give you only part of his window. C. B. Larrabee. il Ptr Ink M 8:26-8 Mr '24
When the window trim can help the general advertising. Ptr Ink 128:95-6 Ag 21 '24
Window display technique as applied to the gas industry. E. T. McSpadden. il Gas Age 55:392 Mr 14 '25
Window displays. J. J. MacDaid, jr. il Gas Age 52:806 D 29 '23
Window displays get attention by not showing the product. il Ptr Ink M 10:57 Ap '25
Window displays increase sales. H. Sauer. il Sanitary & Heat Eng 101:6-7 Ja 11 '24
Window displays on the broadways of China. Ptr Ink 129:70 N 27 '24
Window displays that are more than mere reminders. F. H. Peck. Ptr Ink 130:17-20 F 12 '25
Window displays that can be used inside the store. E. B. Weiss. Ptr Ink M 9:54+ D '24
Window displays that caused 100 per cent increase in depositors; Franklin society for home-building and savings. Ptr Ink M 8: 90+ Mr '24
Window dressing and the retail electrical trade. E. N. Simons. Elec R (Lond) 95:567-8 O 17 '24
Window space should be capitalized. J. R. Jennings. il Gas Age 53:619+ My 3 '24
Windows that tell passers-by of the romance of gas. W. B. Stoddard. il Gas Age 56:229-30 Ag 15 '25
Wonder window display glorifying the gas range in St Louis. M. H. Tamlan. il Am Gas J 123:52 Jl 18 '25
Your windows and color effects. Am Gas J 120:97 F 2 '24

Contests

Display contest should be well advertised. D. Gridley. Ptr Ink M 11:55-6+ Ag '25
Is the window display contest an efficient sales builder? D. Gridley. Ptr Ink 132:17-20 Jl 9; 120+ Jl 16 '25
Prizes awarded in national plumbing window contest. il Sanitary & Heat Eng 103:431 Je 26 '25
Refinements that make window display contests more resultful. Ptr Ink 128:49-50+ Ag 28 '24
Selling the display contest to dealers and sales force. D. Gridley. Ptr Ink 132:106+ Jl 23 '25
Store lighting improved by window contests. F. C. Eteson. il Elec W 86:522 S 12 '25

Heating

Heating isolated spaces; vestibules, show windows, ticket booths, hospital operating rooms. C: L. Hubbard. diags Dom Eng 108: 31-2 S 27 '24

Lighting

Daylight reflection facts. Am Inst E E J 44:304 Mr '25
Daytime illumination in show windows. W. Harrison and W. Sturrock. il diags Illum Eng Soc 20:135-45; Discussion. 145-7 F '25
Effectiveness of high-level window illumination. A. L. Powell. Elec W 82:1127-8 D 1 '23
Efficient window lighting. E. N. Simons. Elec R (Lond) 96:151-2 Ja 23 '25
Interesting the commercial prospect in better illumination. N E L A Bul 10:744-7 D '23
Modern shop-window illumination; Gecoray lighting equipment. E. L. Randall. Elec R (Lond) 93:689 N 9 '23
Selling better shop lighting; abstracts with discussion. W. E. Bush. Electrician 95:477-8 O 23 '25; Elec R (Lond) 97:713-14 O 30 '25
Selling late shop window lighting. Electrician 93:475 O 24 '24
Survey of lighting in electrical showrooms. W. E. Bush. Elec R (Lond) 97:609 O 16 '25
Symposium on store and show-window lighting; semi-exclusive jewelry store. D. W. Atwater and others. plans Illum Eng Soc 20: 352-80 Ap '25
Use of light in shops, show-windows, and for display purposes. M. Partridge. Illum Engr 17:44-6; Discussion. 47-51 Ap '24
We light our windows in the daytime. A. V. Dilley. System 45:560-1+ Ap '24

SHOWER baths
Danger of shower scalding. A. E. Hansen. Sanitary & Heat Eng 102:255-6 O 17 '24
Plaster for shower bath walls. Concrete 26:28-9 Ja '25

SHOWROOMS
Gas showroom. S. Packer. Gas J (Lond) sup 3:161-2; Discussion. 162 S 24 '24
Is display room worth while? F. G. Steinebach. il Iron Tr R 74:420-2 F 7 '24
Making a sales room pay. il Sales Management 8:525-6+ Ap 4 '25
Manufacturer's retail store that sets example for dealers; Edward Muller company's lighting fixtures. il Ptr Ink M 8:70+ F '24
New showrooms at Brighton. il Gas J (Lond) 169:522-3 Mr 4 '25
New showrooms at Hanley. il Gas J (Lond) 171:335-6 Ag 5 '25
Pass the word down to the dealer—it's slick-up time! C. Jennings. Automotive Ind 53: 414-16 S 10 '25
Publicity and progress. W. T. Purcell. Gas J (Lond) sup 4:111; Discussion. 111-12 My 27 '25

SHOWROOMS—*Continued*
Showroom and its uses. W. R. Moffat. Gas J (Lond) sup 4:225 O 28 '25
Showrooms. F. O. Medcalf. Gas J (Lond) sup 3:101-2; Discussion. 102-3 My 28 '24
Showrooms. A. J. Privett. Gas J (Lond) sup 4:128-9; Discussion. 129-31 Je 24 '25
Showrooms and consumers. R. V. Peel. Gas J (Lond) sup 3:104-5 My 28 '24
Showrooms; are they necessary? do they pay? N. S. Smith. il Gas J (Lond) sup 3:62-4 Mr 26 '24
Showrooms for small gas undertakings. N. H. Humphrys. il plan Gas J (Lond) 167: sup148-9 Ag 27 '24
Southampton's newest attraction. il Gas J (Lond) 170:1024-6 Je 24 '25
Value of beauty; attractive, artistic surroundings conducive to sale of gas merchandise. J: H. Hartog. il Am Gas J 120:240-1 Mr 15 '24

See also Electric utilities—Showrooms

SHREDDED wheat
From grain elevator to carton; Shredded wheat company. J: M. Sandel. il Nat Safety N 11:5-6 Je '25
Glimpse into the works of the Shredded wheat company. il Ind Eng 82:310-11+ Jl '24
How shredded wheat adds to its recipes. Ptr Ink 128:72+ Jl 31 '24
Shredded wheat and its human factors. E: Hungerford. Ptr Ink 126:61-2+ Ja 31 '24

Advertising

Shredded wheat advertising cost reduced 80 per cent. Ptr Ink 130:28+ Mr 5 '25

SHREVEPORT, Louisiana
Shreveport active in new building construction. W. N. Blanton. il Manuf Rec 86:95-7 S 4 '24
Shreveport strives to become the ideal city. J: W. Lewis, jr. il Manuf Rec 86:462-8 pt 2 D 11 '24

SHREWS
Mammals almost as small as insects. S. F. Aaron. il Sci Am 133:106-7 Ag '25

SHRIMP
Turning waste into clear profit; feeding stuff from fish and shrimp scrap. Ptr Ink 126: 185+ Ja 10 '24

SHUSTER, W. Morgan
Drafting the brains behind the dollar; Americans serving in rôle of financial advisors to foreign countries. R. A. Lewis, jr. Am Bankers Assn J 16:700 My '24

SIAM

Commerce

Foreign trade of Siam. Comm M 6:15 Ja '25
Import trade of Siam. Elec R (Lond) 94:430-1; 96:116 Mr 14 '24, Ja 16 '25

SIBERIA

Industries and resources

Economic situation in Siberia. L. J. Lewery. U S Bur For & Dom Com Trade Information Bul 286:1-20 '24
Siberia's untouched treasure; its future rôle in the world. C. G. F. Channing. 475p Putnam '23
Starting a byproduct coke plant in central Siberia. N. I. Kishor and H. Kweit. il Chem & Met Eng 32:44-6 Ja 12 '25

See also Gold mines and mining—Siberia; Mines and mineral resources—Siberia

SICILY

See Hydroelectric plants—Sicily

SICK leave
Report of sub-committee on welfare of employees as affecting relations of company with customer. Am Gas Assn Accounting sec v 6:409-29; Discussion. 453-5 '24
Sick benefit policy which includes hourly workers. R. V. Rickcord. Am Management R 13:5-6 D '24
Sick leave among New York office workers. Monthly Labor R 21:598-9 S '25

SICKNESS insurance. See Insurance, Health

SIDE lines
"Any woman's blues"; Wisconsin chair company sells phonograph records to colored folk. Ptr Ink 127:69-70 My 29 '24
Big outlet offered advertisers by diversification of retail stocks. G. A. Nichols. Ptr Ink 128:3-4+ S 4 '24
Pitchforks become fishing rods and saturation vanishes. W. B. Edwards. Ptr Ink 130: 77-8 F 26 '25
When a new product is distinct from regular line. Ptr Ink 127:73-4+ Je 5 '24

SIDERITE
Ueber erzröstung. H. Fleissner. Stahl & Eisen 45:1373-9 Ag 13 '25

SIDEWALK sheds
Sidewalk protection during building construction. il diags Am Arch 125:74-6 Ja 16 '24
Sightly construction gallery protects sidewalk in Chicago. il diags Eng N 91:1063-4 D 27 '23

SIDEWALKS
Cement sidewalks laid in 1924; tabulation. Pub Works 56:73 F '25
Municipal liability for snow on crosswalks. J: Simpson. Pub Works 55:61-4 F '24
Practice in street and sidewalk design in various cities. Munic Eng 65:285-8 D '23; Same abr. Eng & Contr (R & S) 60:1174-6 D 5 '23
Second story sidewalks. J. H. Sawyer. il W Soc E J 29:87-97 Mr '24; Abstract. Elec Ry J 63:219-20 F 9 '24
Sidewalk and curb details. il diags Pub Works 55:39-43 F '24
Sidewalk details; tabulation. Pub Works 55: 72-4 F '24

See also Arcades; Pavements

SIDEWALKS, Concrete
Building sidewalk with 21E paver. il Eng & Contr (R & S) 63:1007 My 6 '25
Building sidewalks to eliminate slipperiness and glare. W: E. Barker. il Eng N 94:1069 Je 25 '25
Eliminating slipperiness and glare from concrete sidewalks. C. L. B. Anderson. Eng N 94:737 Ap 30 '25
Method of constructing one-course concrete sidewalks. il Eng & Contr (R & S) 62:4-5 Jl 2 '24

Specifications

Tentative standard specifications for Portland cement concrete sidewalks. Am Concrete Inst Pro 20:732-7 '24

SIDEWALKS, Subway
Continuous transit proposed for Atlanta; underground moving sidewalks. diags Elec Ry J 65:136-8 Ja 24 '25
Sidewalk subways for downtown Chicago. T. L. Condron and C. L. Post. plans W Soc E J 29:98-101 Mr '24; Abstract. Elec Ry J 63:304 F 23 '24

SIEMENS-MARTIN furnaces. See Open hearth furnaces

SIEVES
Sieve for making accurate samples. il Chem & Met Eng 31:630 O 20 '24
Sturtevant new laboratory sieve. il Eng & Contr (Equip R) 62:984 O 29 '24

See also Screens

Specifications

Comparison of specifications and dimensions of testing sieves. Am Soc T M Pro 24 pt 1: 719-24 '24
Study of sieve specifications. L: V. Judson. il Am Soc T M Pro 24 pt 2:1084-90 '24

Standards

Are your sieves standardized? L. V. Judson. il Chem & Met Eng 31:822-3 N 24 '24
Bureau of standards screen scale for testing sieves. Pub Roads 5:24 Jl '24
How much does screen testing mean? R. B. Ladoo. il Chem & Met Eng 31:623-6 O 20 '24
Sieve limits for the mechanical analysis of subgrade soils. Pub Roads 5:22-3 O '24

SIEVES—*Continued*

Testing

Influence of diameter of wire on performance of sieves. D. A. Abrams. il Am Soc T M Pro 24 pt 2:1091-6 '24

SIGHT

Effect of brightness on the precision of visually controlled operations. P. W. Cobb and F. K. Moss. diag J Fr Inst 199:507-12 Ap '25

For faster seeing. M. Luckiesh. il diag Sci Am 130:326 My '24

Fundamentals of light and vision. W. Harrison. Am Inst E E J 43:1209-10 D '24

Further studies on the effect of composition of light on important ocular functions. C. E. Ferree and G. Rand. Illum Eng Soc 19:424-47; Discussion. 447-55 My '24

Light and vision. il Blast F & Steel Pl 13: 357-60 S '25; Same abr. Textile World 68: 669+ Ag 1 '25

Light, sight, and safety. R. E. Simpson. il Factory 35:541-3 O '25

Meaning of speed of vision. P. W. Cobb. Illum Eng Soc 20:253-66; Discussion. 266-9 Mr '25

Notes on light and vision. F. Benford. il diags Gen Elec R 28:707-13 O '25

Seeing without eyes. Sci Am 131:256+ O '24

Some experiments on the speed of vision. P. W. Cobb. Illum Eng Soc 19:150-63; Discussion. 163-75 F '24

Vision and men's mental powers. G. E. Smith. Sci Am 130:323 My '24

Year's progress in illumination 1923-1924. Illum Eng Soc 19:785-92 O '24

See also Blind; Color sense; Eye; Optics, Physiological

SIGN painting

Artistic signs; how to design and make them. E. L. Koller. 61p McKay '24

Good results from lettering signs by silk screen process. il diag Elec Ry J 62:1007-10 D 15 '23

How to paint signs and sho' cards. E. C. Matthews. 127p J. S. Ogilvie pub. co., New York '24

Modern signwriter. W: G: Sutherland, ed. 95p Decorative art journals co., ltd., Manchester, Eng. '25

Painting roadway signs. C: K. Collenburg. Eng & Contr (Ry) 61:1108-9 My 21 '24

Sign painting with silk stencils, Ohio road department. H. B. Neal. il Eng N 94:608-10 Ap 9 '25

Silk screen sign printing used in Detroit. H. S. Williams. il Elec Ry J 65:261-2 F 14 '25

SIGNAL lamps. See Electric lamps, Surveyors'

SIGNALS, Electric. See Electric signals

SIGNALS, Railroad. See Railroads—Signals

SIGNALS and signaling

See Automobile signals; Electric railroads—Signals; Electric signals; Fire alarms; Fog signals; Light signals; Mine signals; Motor buses—Signals; Radio signals; Radio telegraph; Railroads—Signals; Telegraph; Time signals; Traffic signals

SIGNS

Advertiser and the city. H. V. Lanchester. il Am Arch 126:439-41 N 5 '24

Identifying features of the retail sales place. J. F. Pyle. Univ J of Business 3:82-97 D '24

Signs and sign posts made from scrap. il diag Sheet Metal Worker 15:453+ Jl 4 '24

See also Electric signs; Road signs; Street cars—Signs; Street signs

SIGNS, Manufacturers'

Getting the dealer to show his colors. R. Crothers. il Ptr Ink M 9:43-4+ N '24

SILAGE

See also Silos

Sampling

Roughage sampler. W. L. Gaines. il Ind & Eng Chem 16:386-7 Ap '24

SILENCERS

Maxim silencers applied to marine oil engine installations. il diag Marine Eng 30:465 Ag '25

Silencer extracts noise without loss of power. Marine R 55:270-1 Jl '25

Silencer stops noise of exhaust gas. Marine R 54:507 D '24

SILESIA

Commercial war in Upper Silesia. Economist 101:566-7, 606-8 O 10-17 '25

SILICA

Beitrag zur kenntnis des zustandsdiagramms eisenoxydul und kieselsäure. O. v. Keil and A. Dammann. diag Stahl & Eisen 45:890 Je 4 '25; Same (Iron oxide and silica). Engineer 140:sup121 Ag 28 '25

Binary system sodium metasilicate-silica. G. W. Morey and N. L. Bowen. J Phys Chem 28:1167-79 N '24

Crystal structure of the high temperature form of cristobalite (SiO_2). R. W. G. Wyckoff. Am J Sci 5th ser 9:448-59 Je '25

Effect of silica in iron ore on cost of pig iron production. T. T. Read, T. L. Joseph and P. H. Royster. U S Bur Mines Rep of Invest 2560:1-10 Ja '24 (typew); Same cond. Iron Tr R 74:288-91 Ja 24 '24

Marketing lump and ground silica. F. E. Wormser. Eng & Min J 119:402-4 Mr 7 '25; Discussion. R. B. Ladoo. 119:654 Ap 18 '25

Relative solubilities of quartz, lead smelter slag, chrome ore, and silicate filter grits in hot alkaline waters. R. E. Hall, H. A. Jackson, and G. Fitch. il Ind & Eng Chem 16:701-3 Jl '24

Rôle of silica in plant growth; its assimilation and physiological relation to phosphoric acid. D. R. Nanji and W. S. Shaw. Soc Chem Ind J 44:1-6 Ja 2 '25

Silica. H. E. Skougor. Eng & Min J 119:97 Ja 17 '25

Silica in Canada; its occurrence, exploitation and uses; Eastern Canada. L. H. Cole. 126p Canada Dept. of mines, Ottawa '23; Review. Engineer 137:313-14 Mr 21 '24

Silica refractories of Pennsylvania. E. S. Moore and T. G. Taylor. 100p Pennsylvania Dept. of forests and waters, Harrisburg '24

Silicification of erosion surfaces. C. K. Leith. Econ Geol 20:513-23 S '25

The system: Al_2O_3-SiO_2. N. L. Bowen and J. W. Greig. il diags Am Cer Soc J 7:238-54 Ap '24

Tyler electric silica still. J. C. Olsen, W. Lindenthal and I. Sherman. il diags Am Inst Chem Eng Trans v 16 pt 1:101-10 '24

Upper limit for the thickness of the adsorption layer on silica. D. C. Jones. J Phys Chem 29:369-75 Ap '25

See also Flint; Quartz; Quartzite; Sand; Tripoli

Bibliography

Bibliography of silica refractories. 125p American ceramic society, Refractories division, Columbus, O. '24

SILICA, Colloidal. See Silica gel

SILICA, Fused

Applications of fused quartz. Elec W 85:926 My 2 '25

Clear fused quartz. Brass W 20:357 O '24

Clear fused quartz. E: R. Berry. il Chem & Met Eng 30:715-17 My 5 '24; Same. Am Electrochem Soc Trans v 45 (preprint 32):411-21 Ap '24; Same. Gen Elec R 27:369-73 Je '24

Clear fused quartz; including abstract of paper by E: R. Berry. il Illum Eng Soc 19: 568-74 Jl '24

Das elektrische schmelzen von quarz nach dem vakuum-kompressions-verfahren. R. Honold. il Zeit Ver Deutsch Ing 69:884-6 Je 27 '25

Elimination of surface devitrification on laboratory quartzware. F. C. Vilbrandt. il Ind & Eng Chem 17:835-7 Ag '25

SILICA, Fused—*Continued*
History, development and commercial uses of fused silica; abstracts. R. A. S. Paget. Chem Age (Lond) 10:116+ F 2 '24; Elec R (Lond) 94:273-4 F 15 '24; Electrician 92: 166 F 8 '24; Gas J (Lond) 165:371 F 13 '24; Discussion. E. Thomson. Elec R (Lond) 94: 449-50 Mr 21 '24
Mechanical, thermal and optical properties of fused silica. E. Thomson. J Fr Inst 200:313-25 S '25
New miracle mineral. il Sci Am 131:6-7+ Jl '24
Solubility of helium and hydrogen in heated silica glass and the relation of this to the permeability. G. A. Williams and J. B. Ferguson. Am Chem Soc J 46:635-9 Mr '24
Thermal expansion of fused quartz. G. E. Merritt. diag Am Cer Soc J 7:803-8 N '24
Wonders of the new fused quartz. E. P. Lovejoy. il Am Ind 25:21-3 S '24

SILICA brick
Changes which take place in silica brick during their use in open-hearth furnaces. W. J. Rees. il Am Cer Soc J 8:40-2 Ja '25
Constitution and microstructure of silica brick and chamotte block used in tank furnace. Zenziro Uneno. Am Cer Soc J 8 (Cer A 4):75-7 Mr '25
Fireclay and silica brick as gas house refractories. A. F. Greaves-Walker. Gas Age 53: 567-70 Ap 26 '24
Les matériaux réfractaires siliceux et alumineux au point de vue de leur emploi dans les industries du coke et du gaz. G. Bia. Génie Civil 85:39-40 Jl 12 '24; Abstract. Gas J (Lond) 167:694 Ag 27 '24
Refractories for gas-retorts, with special reference to silica. W. Emery. il diags Gas J (Lond) 167:sup3-16 Jl 9 '24
Refractory materials in carbonizing practice. A. H. Middleton. Gas J (Lond) 172:163-6 O 21 '25
Roof brick for the open hearth. H. C. Harrison. Am Cer Soc J 7:698-705 S '24
Silica brick of constant size. Iron Age 113: 1278 My 1 '24
Storage of silica refractories. W. J. Rees. Gas J (Lond) 167:sup17-18 Jl 9 '24
Untersuchungen über silikasteine. E. Steinhoff. il Stahl & Eisen 44:1277-83, pl 5 O 16 '24

Bibliography

Bibliography of silica refractories. 125p American ceramic society, Columbus, O. '24

Manufacture

Comparative test of quicklimes for silica brick manufacture. L. J. Trostel. Am Cer Soc J 7: 452-4 Je '24
Effect of repeated burning on the structure and properties of lime-bonded silica bricks. W. Hugill and W. J. Rees. il Gas J (Lond) 167:sup24-7 Jl 9 '24
Molding silica brick by machine. il Brick & Clay Rec 66:899 Je 9 '25
Pressing silica brick by machine. il Brick & Clay Rec 65:456-7 S 30 '24
Process for making silica brick by machinery. Chem & Met Eng 30:480 Mr 24 '24
Templetown brick works. il Gas J (Lond) 170: 1027-8 Je 24 '25
Welsh brick industry thrives. J. Horton. il Iron Tr R 76:1520-1 Je 4 '25

Specifications

Brick is purchased by specification. L. S. Longnecker. Iron Tr R 75:1234-5 N 6 '24; Same. Brick & Clay Rec 65:767 N 25 '24

Testing

Comparative tests of porosity and specific gravity on different types of refractory brick. E. E. Pressler. Am Cer Soc J 7:447-51 Je '24
Erforschung und prüfung der feuerfesten baustoffe für die hüttenindustrie in Deutschland. E. H. Schulz. il diag Stahl & Eisen 45: 1733-9, 1777-81 O 15-22 '25
European silica refractories. S. S. Cole. Am Cer Soc J 8:55-8 Ja '25
Factors affecting the resistance of silica refractories to abrasion. F. A. Harvey and E. N. McGee. il Am Cer Soc J 7:895-906 D '24

SILICA gel
Activated carbon and silica gel. E. Urbain. Gas J (Lond) 167:449-51 Jl 30 '24
Activated carbon v. silica gel. N. K. Chaney. Soc Chem Ind J (Chem & Ind) 42:1141-2 N 23 '23
Adsorption from solution by silica in varying degrees of dispersivity. D. C. Jones. J Phys Chem 29:326-35 Mr '25
Adsorption of butane by silica gel. W. A. Patrick and J. S. Long. J Phys Chem 29:336-43 Mr '25
Adsorption of nitrogen peroxide by silica gel. R. C. Ray. diags J Phys Chem 29:74-86 Ja '25
Adsorption of vapors by silica gel by a dynamic method. W. A. Patrick and L. H. Opdycke. J Phys Chem 29:601-9 My '25
Adsorptive silicic acid. Chem Age 32:395-6 S '24
Behavior of silica gel towards certain alkalies and salts in aqueous solution. W. A. Patrick and E. H. Barclay. J Phys Chem 29:1400-5 N '25
Esterification in presence of silica gel. C. H. Milligan, J. T. Chappell and E. E. Reid. J Phys Chem 28:872-8 Ag '24
Experiments on extraction of benzene from coal gas. A. C. Blackall. Gas Age 54:794 D 6 '25
Heats of adsorption of sulfur dioxide and of water vapor by silica gel at o°C. W. A. Patrick and C. E. Greider. diags J Phys Chem 29:1031-9 Ag '25
Industrial uses of silica gel. Chem Age (Lond) 9:518 N 10 '23
New product in petroleum refining. Sci Am 131:183 S '24
New type of silica gel. H. N. Holmes and J. A. Anderson. Ind & Eng Chem 17:280-2 Mr '25
Recovery of nitrogen oxides from gas mixtures by adsorption on silica gel. J. A. Almquist, V. L. Gaddy and J. M. Braham. diags Ind & Eng Chem 17:599-603 Je '25
Reducing action of hydrogen adsorbed in silica gel. M. Latshaw and L. H. Reyerson. Am Chem Soc J 47:610-12 Mr '25
Refining and recovery of petroleum products with silicia gel. E. B. Miller. flow sheet il diags plan Am Inst Chem Eng Trans v 15 pt 1:241-82 '23
Silica gel. N. K. Chaney. Soc Chem Ind J (Chem & Ind) 43:125-6 F 1 '24
Silica gel—a typical example of applied research. C. A. Fulton. Chem Age 31:521-2 N '23
Silica gel as an industrial adsorbent. E. C. Williams. il diags Soc Chem Ind J 43:97-112 Ap 18 '24; Abstracts. Chem Age (Lond) 10:261-3 Mr 15 '24; Engineering 117:622-3 My 9 '24; Gas J (Lond) 165:708-10 Mr 19 '24; Discussion. Chem Age (Lond) 10:264 Mr 15 '24; Gas J (Lond) 165:710-11 Mr 19 '24
Silica gel in industry; plant for drying air for blast furnaces. il Chem Age (Lond) 13: 273 S 12 '25
Silica gel prospects: American chemical manufacturer's views on British business methods. W. Miller. Chem Age (Lond) 9:596-7 D 1 '23
Silicate solutions and some silicious gels. J. G. Vail. Soc Chem Ind J 44:214-19 My 8 '25
Some observations on the preparation and properties of silicic acid gel. H. A. Fells and J. B. Firth. il J Phys Chem 29:241-8 Mr '25
Studies in the adsorption from solution from the standpoint of capillarity. W. A. Patrick, D. C. Jones and N. F. Eberman. J Phys Chem 29:1-10, 220-8 Ja-F '25

SILICA glass. See Silica, Fused

SILICATES
La conductibilité électrique des laitiers fondus. F. Farup, W. Fleischer and E. Holtan. diags Chimie & Ind 12:11-15 Jl '24
Doucil—a new base exchanging silicate. J. G. Vail. Chem Age 32:489-92 D '24

SILICATES—*Continued*
Silicate solutions and some silicious gels. J. G. Vail. Soc Chem Ind J 44:214-19 My 8 '25

See also Amphibole; Andalusite; Diopside; Garnet; Glass; Hisingerite; Kaolin; Melilite; Pegmatite; Pyroxenes; Searlesite; Sillimanite; Sodium silicate; Spodumene; Talc; Zeolites

SILICIC acid
Kritische untersuchung der bestimmung der kieselsäure in erzen, schlacken, zuschlägen und feuerfesten baustoffen. A. Stadeler. Stahl & Eisen 44:1477-81 N 20 '24

SILICOHYDROCARBONS
Organic derivatives of silicon. F: S. Kipping. Chem Soc J 123:2590-2603 Q '23
Organic derivatives of silicon; complex silicohydrocarbons [Si Ph_2] *n*. F: S. Kipping. Chem Soc J 125:2291-7 N '24
Organic derivatives of silicon; preparation, properties and condensation products of di-*p*-tolylsilicanediol. H. S. Pink and F: S. Kipping. Chem Soc J 123:2830-7 N '23

SILICON
Cementation of iron by silicon. R. T. Haslam and L. E. Carlsmith. il diags Ind & Eng Chem 16:1110-13 N '24
Comparison of the deoxidation effects of titanium and silicon on the properties of rail steel. G: K. Burgess and G. W. Quick. U S Bur Stand Tech Pa 241:581-635 '23
Organic derivatives of silicon; action of mercuric oxide on diaryldichlorosilicanes. L. R. Vyle and F: S. Kipping. Chem Soc J 125:2616-22 D '24
Organic derivatives of silicon; probable example of tervalent silicon. F: S. Kipping. Chem Soc J 123:2590-2603 O '23
Spectra of silicon and aluminium. W. C. McQuarrie. Philos Mag 6th ser 50:819-21, pl 28 O '25

Analysis

Determination of silicon in iron-silicon alloys by their physical properties. T. D. Yensen. Engineering 117:173 F 8 '24; Same. Ind & Eng Chem 16:366-7 Ap '24
Dosage du silicium dans les aciers à coupe rapide. J. Vernay. diag Chimie & Ind 11:886-8 My '24
Silicon in aluminium-silicon alloys. J: D. Gat. Ind & Eng Chem 16:959-60 S '24

SILICON alloys
New aluminum-silicon alloys. J. D. Edwards and R. S. Archer. il Chem & Met Eng 31:504-8 S 29 '24
Normal sand-cast alloys of aluminium containing small amounts of silicon. S: Daniels. il Ind & Eng Chem 17:485-92 My '25
Silicon. E. G. Jarvis. Metal Ind 23:237 Je '25

See also Duriron; Iron-silicon alloys; Silicon steel

SILICON carbide. See Carborundum

SILICON compounds

See Carborundum; Quartz; Silica; Silicates; Silicohydrocarbons; Silit

SILICON dioxide. See Quartz; Silica

SILICON nitride
Isotope effect in band spectra; the spectrum of silicon nitride. R. S. Mulliken. il Phys R 26:319-38 S '25

SILICON steel
Barkhausen effect. E. P. T. Tyndall. il diags Phys R 24:439-51 O '24
Hardening of silico-manganese steels. E. W. Colbeck and D. Hanson. bibliog Iron & Steel Inst J 109:377-94, pl 18-22; Discussion. 395-407 no 1 '24
Magnetic and electrical properties of the ternary alloys FE-SI-C. T. D. Yensen. Am Inst E E J 43:558-67 Je '24
Magnetic properties of silicon steel in a large transformer. G. H. Cole. Elec J 21:17-24 Ja '24
Properties of electric sheet steel. C. H. Willis. Elec W 82:1005-7 N 17 '23
Refining metals electrically. L. J. Barton. Foundry 53:329-31 Ap 15 '25
Silicon steel. Electrician 93:617 N 28 '24; Same. Locomotive 35:145-7 Ja '25
Silicon steel. W. E. Ruder. Blast F & Steel Pl 13:473-5 D '25; Same cond. Iron Age 116:1170-1 O 29 '25; Same cond. Iron Tr R 77:1090 O 29 '25

SILICOSIS. See Lungs—Dust diseases

SILIT
Silit; a new resistance material and its varied applications. il Electrician 95:387-8 O 2 '25

SILK
Chats with the textile chemist; silk fiber. J. M. Matthews. Textile World 68:1621+ S 19 '25
Cohesion in raw silk. W. P. Seem. Textile World 65:383+ Ja 19 '24
Die mikroskopische untersuchung der seide, by A. Herzog. Review. Color Tr J 15:91-2 S '24
Natural and artificial silk. D: Bronnert. Chem Age (Lond) 11:188-9 Ag 23 '24
Nature of silk. Am Dyestuff Rep 14:133 F 23 '25
Properties of the silk fiber. W. S. Denham and T. Lonsdale. Color Tr J 15:59, 145-6 Ag, N '24
Researches on proteins; the preparation of the protein sericin from silk. E. M. Shelton and T. B. Johnson. Am Chem Soc J 47:412-18 F '25
Strength of silk in comparison with other fibers. Color Tr J 15:56 Ag '24
Textile fibres—silk. W: S. Denham and A. Crummett. Soc Dyers & Col J 41:19-27 Ja '25

See also Bleaching—Silk; Crêpe de chine; Dyes and dyeing—Silk; Glove fabrics; Marquisette; Silk machinery; Silk manufacture and trade; Silk printing; Silkworms

Prices

Lower raw silk prices boon to trade here. chart Textile World 67:995+ F 7 '25
Raw silk prices and the business cycle. E. S. Coyle. charts R Econ Statis 6:22-31 Ja '24

Testing

Classification of raw silk. W. P. Seem. Textile World 65:4095+; 66:361+ Je 21, Jl 19 '24
Classification of raw silk by means of mechanical tests. K: R. Moore. diag Am Dyestuff Rep 14:551-2, 579-83, 619-21+, 689-90 Ag 24-S 21, O 19 '25
Quality tests of real and artificial silks. W. F. Edwards. Textile World 65:2011+ Mr 22 '24
Silk and its testing. J. O. Thompson. Textile Col 47:221-3, 293-5, 370-1+, 431-3, 712+ Ap-Jl, N '25
Testing silk. Am Dyestuff Rep 13:652-3 O 6 '24

SILK, Artificial
Advantages of new rayon. M. G. Luft. Chemicals (Dyestuffs sec) 17:94 O 12 '25
Artificial silk a boon to cotton? B. R. Clarke. Comm & Fin 14:387 F 25 '25
Artificial silk a commercial romance. L. A. Yerkes. Manuf Rec 86:199-200 pt 2 D 11 '24
Artificial silk and the textile industry. G. J. Esselen, jr. Am Dyestuff Rep 14:713-17 N 2 '25
Artificial silk becoming a leading textile fiber. Color Tr J 14:185-6 Je '24
Artificial silk development. E. Cagliostro. Color Tr J 16:79-82 Mr '25
Artificial silk in hosiery. B. R. Clarke. Textile World 65:2499+ Ap 12 '24
Artificial silk industry. Soc Dyers & Col J 41:292-3 Ag '25
Artificial silk, its origin, manufacture and fire hazards. Spectator 112:30-1 My 8 '24
Artificial silk production continually increasing. Color Tr J 15:181-3 D '24
Artificial silk situation. Color Tr J 15:132-4 N '24
Artificial silk—the boy wonder. D. G. Woolf. Textile World 67:845+ F 7 '25
Artificial silk—the industrial development of viscose. A. B. Shearer. Chemicals (Dyestuffs sec) 17:17-19+ Jl 20 '25

SILK, Artificial—*Continued*
Artificial silks. P. E. King. Textile Inst J 14: P219-27 O '23; Same abr. Textile World 64: 3723+ D 22 '23
Artificial silks. P. E. King. Textile Inst J 15:P567-70; Discussion. P570-1 N '24
Bird's eye view of rayon industry. Textile World 68:1750-1 sec 2 S 26 '25
Celanese. S. A. Welch. Textile Inst J 15:P593-8; 16:P64-6 D '24, Mr '25
Celanese and cotton mixtures. A. H. Grimshaw. il Textile World 67:579+ Ja 31 '25
Cellulose acetate silk—celanese. H. Platt. Am Dyestuff Rep 14:49-51 Ja 26 '25
Composition and properties of various artificial silks. H. Hibbert. Am Dyestuff Rep 14: 41-6 Ja 26 '25
Comte Hilaire de Chardonnet. C. F. Cross. Soc Dyers & Col J 40:147-8 My '24; Soc Chem Ind J (Chem & Ind) 43:325-6 Mr 28 '24
Conditions in the artificial silk industry. Econ W n s 28:590 O 25 '24
Crepe textures in rayon. il Textile World 67: 4009 Je 20 '25
Cuprammonium silk and the artificial silk industry. R. P. Dicks. Am Dyestuff Rep 14: 46-9 Ja 26 '25
Developments in the artificial silk situation. Comm M 7:23-30 My '25; Same. Econ W n s 29:655-8 My 9 '25; Excerpt. Textile World 67:3125-6 My 9 '25
Dyeing of celanese. H. Platt. Am Dyestuff Rep 13:255-60; Discussion. 260-3 Ap 21 '24
Effect of rayon on the cotton industry. Comm & Fin 14:95 Ja 14 '25
Experiments on artificial silk. diag Textile World 67:1397+ F 21 '25
Knit goods industry pioneer rayon consumer. L: R. Keeffe. Textile World 68:1769-71 sec 2 S 26 '25
Knitting viscose rayon. Textile World 68: 1045+ Ag 22 '25
Little comfort for "bears" on artificial silk. S. A. Salvage. Textile World 65:3415+ My 24 '24
Mechanical problems in knitting rayon. W: Davis. Textile World 68:1783-5 sec 2 S 26 '25
Miscellaneous reactions for rayon. Textile Col 47:177-8 Mr '25
Natural and artificial silk. D: Bronnert. Chem Age (Lond) 11:188-9 Ag 23 '24
Plasticity as applied to viscose and artificial silk. C: S. Venable. charts J Phys Chem 29:1239-43 O '25
Possibility of rayon in silk goods unlimited. W: A. Spafford. Textile World 68:1774-5 sec 2 S 26 '25
Prospects of artificial silk. Economist 99:483-4 S 27 '24
Rayon. F. L. Sherrer. il Forbes 17:16-18+ N 1 '25
Rayon boon to cotton goods manufacturer. Textile World 68:1771-2 sec 2 S 26 '25
Rayon gives new life to worsted dress goods. W: B. Dall. il Textile World 68:1772-4 sec 2 S 26 '25
Rayon in woolen and worsted fabrics. R. Little. Textile World 68:1787 sec 2 S 26 '25
Rayon investigation by Underwear association. Textile World 67:2979-80+ My 2 '25
Rayon; its growth, manufacture and use. B. Mahon. Textile World 68:1149-50 Ag 29 '25
Rayon takes its seat among the elect. R. Peugnet. Ptr Ink 131:25-6+ My 28 '25
Rayon the new prodigy of the textile world. W: Whittam. il Dun's Int R 46:46-50 N '25
Rayon year book. Textile World 68:1747-98 sec 2 S 26 '25
Recherches sur la réaction de la viscose. B. Rassow and M. Wadewitz. Chimie & Ind 13: 119-20 Ja '25
Research in the artificial silk industry. S. S. Sadtler. Ann Am Acad 119:32-9 My '25
Ripening of viscose; its industrial control. J. Frere. Chem Age 32:146-7 Mr '24; Same. Am Dyestuff Rep 13:545-8 Ag 25 '24
The silken tangle. Economist 100:951-2 My 16 '25
Textile chemists discuss artificial silk at annual meeting of American association of textile chemists and colorists. Textile World 66:3443-4 D 13 '24
Treatment of fabrics containing artificial silk. Am Dyestuff Rep 14:642 S 21 '25
Use of artificial silk in the silk industry. J. Chittick. Textile World 66:3597+ D 20 '24
Use of fine sizes of artificial silk. B. R. Clarke. Textile World 67:507+ Ja 24 '25
Use of lustron as a decorating fiber. R. Little. Am Dyestuff Rep 14:51-4 Ja 26 '25
Use of rayon in woven fabrics. T: Brough. il Textile World 67:2847+ Ap 25 '25
Uses for artificial silk. J. W. Pennington. Color Tr J 16:57-9 F '25
Weaving cotton and rayon mixtures. J: Reynolds. il Textile World 68:1778+ sec 2 S 26 '25
World rayon production estimates. Textile World 67:2834 Ap 25 '25
World rayon progress and firms who make it. W. O. Mitscherling. Textile World 67:1949-50 Mr 21 '25

See also Cotton, Substitutes for; Dyes and dyeing—Silk, Artificial

Advertising

Rayon underwear story now put up to consumer. Ptr Ink 133:33-4+ N 5 '25

Manufacture

Artificial silk. M. G. Luft. il Ind & Eng Chem 17:1037-42 O '25
Artificial silk from redwood waste bark. Am Dyestuff Rep 14:34 Ja 12 '25
Artificial silk; machinery employed in viscose manufacture. A. G. Perl. il diags Textile Inst J 16:P195-204 Je '25; Same. Chemicals (Dyestuffs sec) 17:47-9+ Ag 17 '25
Bemberg to use cupro-ammonium process. Textile World 68:1768 sec 2 S 26 '25
Big rayon plant of Du Pont interests in Tennessee to be in operation soon. il Manuf Rec 88:88-90 Ag 6 '25
Bleaching, dyeing and finishing of acetate silk. R. D. Little. Am Dyestuff Rep 13:5-10 Ja 14 '24
Bleaching of artificial silk waste. I. Ginsberg. Textile Col 47:503-5 Ag '25
Bleaching of artificial silk waste. W. Kosche. Am Dyestuff Rep 14:650-2 O 5 '25
Celanese development at Amcelle, Md. il Textile World 68:1763-5 sec 2 S 26 '25
Chardonnet process basis of Tubize production. il Textile World 68:1758+ sec 2 S 26 '25
Chemical foundations of the artificial silk industry. E. Heuser. Am Dyestuff Rep 14:690-4 O 19 '25
Close-up of an artificial silk plant; the Viscose company's plant at Marcus Hook. D. G. Woolf. il Textile World 67:837-9 F 7 '25
Development and processes of some of the rayon producing companies of the United States. il Textile World 68:1757-68 sec 2 S 26 '25
Difficulties encountered by the rayon user. J. Chittick. Textile World 68:1776-8 sec 2 S 26 '25
Dryer for rayon. Textile World 67:3293 My 16 '25
Dyeing acetate silk. C: E. Mullin. Am Dyestuff Rep 14:173-6 Mr 23 '25
L'industrie de la soie artificielle. E. Grandmougin. Génie Civil 84:8-10, 33-6, 57-60 Ja 5-19 '24
Johnson sizing machine for artificial silk. il Textile World 67:459 Ja 24 '25; Textile Col 47:444-5 Jl '25
Lines of progress in the development of rayon. J. M. Matthews. Textile World 68:1752-3 sec 2 S 26 '25
Making artificial silk by the cuprammonium process. L. S. Fryer. il Chem & Met Eng 30: 743-8 My 12 '24
Manufacture and use of artificial silk. H. W. Rose. Am Dyestuff Rep 14:355-8; Discussion. 364-5 Je 1 '25
Manufacture of viscose silk. H. Ropposch. Soc Dyers & Col J 41:31-2 Ja '25

SILK, Artificial—Manufacture—*Continued*
Mechanical development in rayon manufacture. W. O. Mitscherling. il diags Textile World 68:1754-6 sec 2 S 26 '25
Modified method for the determination of the copper number (oxycellulose) of bleached pulps. P. D. Bray and Pao Chen Liu. diags Paper Tr J 80:49-53 My 28 '25
New technique demanded by rayon. H. S. Busby. diags Textile World 68:1795-6 sec 2 S 26 '25
Pump for rayon fluid. diag Textile World 68: 1873 S 26 '25
Rayon and the textile industry. G. J. Esselen, jr. Textile World 68:2034+ O 3 '25
Rayon winding, weaving and finishing. diags Textile World 67:2719+ Ap 18 '25
Scouring and bleaching rayon. Textile World 68:1790-1 sec 2 S 26 '25
Skein sizing of celanese. A. H. Grimshaw. il Textile World 67:320-1 Ja 17 '25
Southern plant turning out annually 12,000,000 pounds of artificial silk. C. E. Williams. il Manuf Rec 86:60-4 D 11 '24
Successful methods for handling rayon. A. H. Grimshaw. Textile World 68:2503+, 2951-3 O 24, N 14 '25
Viscose process for the manufacture of artificial silk. W. O. Mitscherling. il diag Am Dyestuff Rep 14:54-8 Ja 26 '25

Moisture content

Moisture in artificial silk. G. Baroni. Textile World 65:1739 Mr 8 '24

Patents

Apparatus for making filaments of artificial silk; English patent. diag Chemicals (Dyestuffs sec) 17:105 O 12 '25
Desizing of artificial silk fabrics; patent. Color Tr J 16:148 My '25
German patents made available. Textile World 68:2313 O 17 '25

Terminology

Federal trade commission approves term rayon. Textile World 68:2687 O 31 '25
"Glos" gives way to "rayon." Textile World 65:2644 Ap 19 '24
Glos is dead; long live new name. Textile World 65:1859+ Mr 15 '24
Names for artificial silk. R. B. Cooke. Textile World 65:2839 Ap 26 '24
Rayon resolution. Textile World 65:2761 Ap 26 '24

Testing

Comparative tests of various sizing materials on artificial silk. W. F. Curry. Textile Col 46:489-93 Ag '24
Identification of types of artificial silk. A. K. Johnson. Am Dyestuff Rep 14:105-7+ F 23 '25
Quality tests of real and artificial silks. W. F. Edwards. Textile World 65:2011+ Mr 22 '24
Standardized practical tests for rayon. W. F. Edwards. il Textile World 68:1791-4 sec 2 S 26 '25
To tell acetate silk. C. F. Green. Textile Col 47:107 F '25

Europe

European artificial silk production increasing. Textile World 66:2631 N 8 '24

France

French silk and artificial silk industries. Color Tr J 14:61-2 F '24

Great Britain

Artificial silk; a review of British progress—the industrial development of viscose. A. B. Shearer. Textile Inst J 16:P146-54 My '25
Artificial silk industry in England. Color Tr J 15:156 N '24
British artificial silk industry in 1924. C. G. Isaacs. Econ W n s 29:369-70 Mr 14 '25
British celanese. Chem Age (Lond) 13:123 Ag 1 '25

Italy

Artificial silk industry in Italy. Soc Dyers & Col J 41:151 Ap '25
Italian artificial silk industry. E. Humes. Econ W n s 29:335 Mr 7 '25

Netherlands

Rayon in Netherlands and Spain. Textile World 68:1775 sec 2 S 26 '25

United States

Domestic rayon production sets new record. D. G. Woolf. Textile World 68:1748-50 sec 2 S 26 '25
Domestic rayon securities. Textile World 68: 1862+ S 26 '25
New record in artificial silk production. Textile World 65:772+ F 2 '24
Production of artificial silk in the United States in 1924. Econ W n s 29:232 F 14 '25
Rayon in the American textile industry. H. T. Nones. Econ W n s 30:436-7 S 26 '25

See also Tariff—United States—Silk, Artificial

SILK association of America
Annual meeting, 53d, New York, March 25. Textile World 67:2097+ Mr 28 '25
53d annual dinner, New York, Jan. 10. Textile World 67:307-9 Ja 17 '25

Library

Library of the Silk association. A. M. Pike. Special Lib 16:191-3 Je '25

SILK finishing
Finishing of silks. V: H. Berman. Am Dyestuff Rep 14:292-3; Discussion. 293-8 My 4 '25

SILK machinery

Lubrication

Lubrication of silk machinery. Textile World 64:3029+ N 17 '23
Standardization of textile mill lubrication. A. F. Brewer. Textile World 68:75+ Jl 4 '25

SILK manufacture and trade
Application of hydrogen ion determination to textile work. W. M. Scott. Am Dyestuff Rep 14:147-50 Mr 9 '25
Boiling-off of silk. M. N. Conklin. Color Tr J 15:143-4 N '24
Broadsilk trade looks for excellent business in 1925. Textile World 67:987+ F 7 '25
Chafing of silk fabrics. L: J. Matos. Textile World 66:2993+ N 22 '24
Conditioning. B. F. Wadsworth. Textile Col 46:437-40 Jl '24
Dissecting and calculating silk fabrics. H. Neild. 175p American silk journal, New York '24
Former cash boy who heads America's greatest silk business; Hiram R. Mallinson. E. M. Wickes. Sales Management 7:1217-18+ Jl '24
Has 54-in. silk come to stay? Textile World 68:2621 O 31 '25
How silk industry carried on in face of Japanese disaster. R. Peugnet. Ptr Ink 125:77-8+ N 22 '23
Imports of raw silk declined. Textile World 65:921+ F 2 '24
International trade in raw silk. L. A. Wheeler. U S Bur For & Dom Com Trade Information Bul 283:1-17 '24
Possibility of rayon in silk goods unlimited. W: A. Spafford. Textile World 68:1774-5 sec 2 S 26 '25
Preparation of raw silk for weaving. Chem Age 32:281-2 Je '24
Protecting animal fibers against alkalies. Am Dyestuff Rep 14:311 My 4 '25
Setbacks marred promising broad silk year. Textile World 65:919+ F 2 '24
Silk and silk spinning. A. J. Solly. Textile Inst J 15:P573-4 N '24
Silk and wool trades. Moody's Inv Serv 16: 462 D 26 '24
Silk association reviews developments of year. Textile World 67:2097+ Mr 28 '25
Silk industry a field for the textile chemist. Color Tr J 13:196-8 D '23
Silk industry—past, present and future. W. M. Scott. Am Dyestuff Rep 14:399-400 Je 15 '25

SILK manufacture and trade—*Continued*
Silk trade review. Textile World 66:2515 N 1 '24
Silk versus artificial silk. E: T. Pickard. Textile Col 46:646 O '24
Spun silk has satisfactory year in 1924. Textile World 67:997 F 7 '25
Spun silk improved in 1923. Textile World 65:923+ F 2 '24
Thrown silk; extraction of silk oils and soaps. Textile World 68:373+ Jl 18 '25
Twenty years ago in silk trade. Textile World 65:771 F 2 '24
Variations in finished weight of silks. R. Presgrave. il Textile World 67:4015+ Je 20 '25
Winding silk dry or damp. Textile World 66: 2979+ N 22 '24

See also Silk, Artificial; Silk finishing; Silk waste; Silk weighting

Accounting

Cost finding of flat-knitted silk fabric. R. Presgrave. Textile World 68:1609+, 2487+ S 19, O 24 '25
Raw silk cost vs. fabric cost. R. Presgrave. Textile World 68:373 Jl 18 '25

Directories

Buyers' guide for silks and ribbons; annual. 280p Clifford & Lawton, New York

China

Modernizing China's silk industry. C: J. Huber. Textile World 66:2175+ O 18 '24
Shanghai raw silk market. D. D. Leonard. il Textile World 68:777-8 Ag 8 '25

France

French silk and artificial silk industries. Color Tr J 14:61-2 F '24
Natural and artificial silk in France in 1924. Econ W n s 29:771 My 30 '25
Silk industry in France. Economist 100:sup 19+ Mr 28 '25

Great Britain

British silk and rayon duties. W: Whittam. Am Ind 26:41-3 Ag '25
British silk trade and its possibilities. P. M. Elton. Textile Inst J 15:P391-401; Discussion. P402-4 Ag '24
Silk production in the Empire. H. M. Lefroy. Textile Inst J 15:P374-85; Discussion. P386-91 Ag '24
Silk production in the Empire. H. Maxwell-Lefroy. Soc Dyers & Col J 40:386-7 N '24
The silken tangle. Economist 100:951-2 My 16 '25

Italy

Raw silk production and silk manufacturers in Italy. H. E. Russell. Econ W n s 27: 656-7 My 10 '24

Japan

Japan's record silk export. Comm M 7:15 N '25

Switzerland

Swiss silk industry. Soc Dyers & Col J 40: 244-5 Jl '24

United States

America's supremacy in silks today undisputed. W: A. Spafford. Textile World 67:870 F 7 '25
Census report on the silk manufacturing industry in the United States in 1923. Econ W n s 29:555-6 Ap 18 '25
Raw and artificial silk consumption in the United States. Bradstreet's 53:401-2 Je 20 '25
Raw silk imports, stocks, deliveries, etc., June 1. Comm & Fin Chr 121:140 Jl 11 '25
Raw silk to be high in April and May. W: A. Spafford. Textile World 67:1955+ Mr 21 '25
Seeking price insurance for silk. Comm & Fin 14:174 Ja 21 '25
Silk exchange in U.S. looks good to trade. W: A. Spafford. Textile World 67:567-8 Ja 31 '25
Silk industry has record year. Bradstreet's 53:705 O 31 '25
Silk manufacturing companies. Moody's Inv Serv 17:69-70 F 26 '25
Stocks, imports and consumption of raw silk in the United States in January and for 1923. Econ W n s 27:232 F 16 '24
Stocks, imports and consumption of raw silk in the United States in January and during 1924. Econ W n s 29:231 F 14 '25
Suggested establishment of a raw silk futures market on the New York cotton exchange. A. R. Marsh. Econ W n s 29:75-6 Ja 17 '25
Textile world analyst. L: H. Haney. Textile World 67:3993-5; 68:403-5, 901-2, 1603-4, 2481-2, 3077-8, 3677-8 Je 20, Jl 18, Ag 15, S 19, O 24, N 21, D 19 '25
Trading in futures considered by cotton and silk interests. Textile World 67:312-13 Ja 17 '25

See also Silk association of America

SILK mills
First silk mill in the Northwest; Pioneer silk co., Portland, Ore. F. Quisenberry. Textile World 68:650 Ag 1 '25
Silk weaving mill of the H.K.H. silk company, Haverstraw, N. Y. il Textile World 67:1979+ Mr 21 '25

See also Milk manufacture and trade

Lighting

Improved lighting in silk mill. il diag Elec W 86:324-5 Ag 15 '25

SILK printing
Different methods of producing direct printed effects on silk and on rayon silk fabrics. R. Sansone. il Textile Col 47:494-6, 784-5 Ag, D '25 (to be cont)
Printing of silk fabrics. L: J. Matos. Textile World 67:3297 My 16 '25

SILK ribbon weavers
Trade agreement in the silk-ribbon industry of New York city. M. Gadsby. U S Bur Labor Statistics Bul 341:1-95 '23; Review. Monthly Labor R 18:341-2 F '24

SILK waste
Study of silk waste used for cartridge-bag cloth, with an appendix on the general classification of waste silk. F. R. McGowan, C: W. Schoffstall and A. A. Mercier. il U S Bur Stand Tech Pa 268:567-94 '24

SILK weavers
What 86 years have taught us about selecting labor. H. B. Cheney. Factory 32:496-8+ Ap '24; Same. Monthly Labor R 18:933-45 My '24

See also Silk ribbon weavers

SILK weighting
Concerning the weighting of silk piece goods. J. Chittick. Textile World 68:1043+ Ag 22 '25
Features in modern silk dyeing. E. Cagliostro. Color Tr J 15:23-6 Jl '24
Is silk weighting a curse or a blessing? Color Tr J 16:130-1 My '25
Piece weighting vs. pure dye. A. H. Schnell. Textile World 66:2177 O 18 '24
Process of weighting silk—British patent. Color Tr J 16:24-5 Ja '25
Silk weighting. Textile Inst J 15:P44-5 F '24
Silk weighting and hard twisted rayon crepe. J. Chittick. Textile World 68:917+ Ag 15 '25
Some difficulties connected with the weighting and dyeing of skein silk. Color Tr J 15: 57-9 Ag '24
Tin-weighting skein silk and piece goods. H. R. Tisdale. Textile World 65:4213-14 Je 28 '24
Weighting and dyeing of silk. J. Knup. Am Dyestuff Rep 13:763-4 N 17 '24
Weighting of silks. J. Woodman. Textile Col 45:30-4, 95-7, 298-301, 366-70, 477-9, 491-4, 577-81; 46:26-8 Ja-F, My-S '23, Ja '24

SILK yarn
Denier system for silk and artificial silk yarns—table of cotton, wool, and worsted equivalents. E. D. Fowle. Textile World 67:457+ Ja 24 '25

SILKWORMS
Chinese sericulture. Monthly Labor R 19:492-4 Ag '24
Chinese sericulture improvement. Textile World 66:2632 N 8 '24
Higher education of the silkworm. P. N. Youtz. il Sci Am 133:166-7 S '25
Modernizing China's silk industry. C: J. Huber. Textile World 66:2175+ O 18 '24
Shanghai raw silk market. D. D. Leonard. il Textile World 68:777-8 Ag 8 '25
Silk production in the Empire. H. M. Lefroy. Textile Inst J 15:P374-85; Discussion. P386-91 Ag '24

SILLIMANITE
Andalusite minerals used in the manufacture of pottery. W. M. Myers. Brick & Clay Rec 64:739-40 My 13 '24
Changes in the constitution and microstructure of andalusite, cyanite, and sillimanite at high temperatures and their significance in industrial practice. A. B. Peck. il Am Cer Soc J 8:407-29 [bibliog. p. 428-9] Jl '25
Differentiation between mullite and sillimanite by their X-ray diffraction patterns. L: Navias and W. P. Davey. il Am Cer Soc J 8:640-7 O '25
Formation of mullite from cyanite, andalusite, and sillimanite. J. W. Greig. il diags Am Cer Soc J 8:465-83; Discussion. 483-4 Ag '25
Sillimanite development in some typical clays. H. M. Kraner. il diags Am Cer Soc J 7: 726-34 O '24
Study of sillimanite for the purpose of the preparation of refractory materials; abstract. A. Cousen and W. E. S. Turner. Soc Chem Ind J (Chem & Ind) 44:256 Mr 6 '25
The system: $Al_2O_3SiO_2$. N. L. Bowen and J. W. Greig. il diags Am Cer Soc J 7:238-54 Ap '24; Discussion. (Bul) 7:386-7 O '24
X-ray study of natural and artificial sillimanite. J: T. Norton. il Am Cer Soc J 8:401-6 Jl '25; Discussion. (Bul) 8:374-6 Ag '25

SILLIMANITE, Artificial
Artificial sillimanite as a refractory. H. Wilson, C. E. Sims and F: W. Schroeder. il Am Cer Soc J 7:842-55, 907-19 [bibliog. p. 917-18] N-D '24
Preparation of artificial sillimanite for refractory uses. C. E. Sims, H. Wilson and H: C. Fisher. il Am Electrochem Soc Trans v 46 (preprint 23):327-43 O '24
Synthetic sillimanite in ceramic bodies. T. S. Curtis. Am Cer Soc J 8:63-8 Ja '25

Analysis

Method for the analysis of aluminous silicate refractories. E: P. Barrett and F: W. Schroeder. Am Cer Soc J 8:69-71 Ja '25

SILO storage bins. See Cement storage

SILOS
Why the dealer should encourage silos. R. Murray. il Am Exporter 94:65+ Ja '24

Advertising

Credit lure brings inquiries—but farmers buy for cash. W. Brindley. Ptr Ink M 10:38+ Je '25
Making inquiries breed inquiries; how manufacturer of silos holds down cost of inquiries. W. Brindley. Ptr Ink 130:17-20 Mr 12 '25
Playing "open and above" with the farmer. W. Brindley. Ptr Ink 128:57-8+ Ag 28 '24

SILOS, Concrete
How storm-proof are concrete stave silos? W. G. Kaiser. il Concrete 24:145 Ap '24
How to make 100% better products with 20% less cement. Concrete 26:74 F '25

See also National concrete stave silo association

SILT
Automatic eliminators for alluvial matter in water-turbine supplies. H: Dufour. diags Engineering 120:247-9, 313-16, 379-81 Ag 28, S 11, 25 '25; Excerpt (pt 2). Mech Eng 47: 928-30 N '25
Handling silt in settling basins. R. N. Towl. diags plan Eng & Contr (W W) 62:341-4 Ag 13 '24; Abstract. Eng N 92:488-9 Mr 20 '24
Methods of overcoming silting of reservoirs outlined. Eng N 93:306 Ag 21 '24
Report on the silt problem. F. D. Pyle and F. Thomas. Am Soc C E Pro 51:[Soc aff] 141-7 Mr '25
Siltation of Austin and Lake Worth reservoirs in Texas. J: B. Hawley. Eng N 91:811 N 15 '23
Silting of the lake at Austin, Texas. T. U. Taylor. il diags map Texas U Bul 2439:1-23 '24
Solids entrained in flowing water. P. Simon and A. Haegelen. Engineering 120:240-1 Ag 21 '25

SILVER
Arc spectra of silver and copper. A. G. Shenstone. diags Philos Mag 6th ser 49:951-62, pl 9 My '25
Atomic weights of carbon and silver. G: Dean. Chem Soc J 125:2656-72 D '24
Diffusion of oxygen through silver. F. M. G. Johnson and P. Larose. diags Am Chem Soc J 46:1377-89 Je '24
Effect of temperature on the anomalous reflection of silver. M. de Selincourt. J Fr Inst 200:218 Ag '25
First use of metals. T. A. Rickard. Eng & Min J 117:528-30 Mr 29 '24
Pole lines occurring in the interrupted arc spectra of silver, gold, and copper. H. Lowery. Philos Mag 6th ser 48:1122-31, pl 27 D '24
Preparation and properties of some protected silver sols. I. D. Garard and G. E. Duckers. Am Chem Soc J 47:692-6 Mr '25
Some properties and uses of silver. N. F. Budgen. Chem Age (Lond) 12:sup 1-2 Ja 3 '25

See also Jewelry; Money; Silver metallurgy; Silver mines and mining; Silver ores; Silver plating; Silverware; *also* American silver producers' association

Analysis

Mohr's method for the determination of silver and halogens in other than neutral solutions. H. W. Doughty. Am Chem Soc J 46:2707-9 D '24
Nipissing assay for fine bullion. A. P. Van Zwaluwenburg. Eng & Min J 119:203-4 Ja 31 '25
Titration method for the determination of silver in photographic preparations. M. Marasco. Ind & Eng Chem 16:945-6 S '24

Cost

Milling details at New York and Honduras Rosario. Eng & Min J 120:300 Ag 22 '25

See also Silver mines and mining—Cost

Pittman act

Pittman bill calling for completion of silver purchases under act of 1918 failed of enactment at late session of Congress. Comm & Fin Chr 118:3033-4 Je 21 '24

Tarnishing

Tarnishing and detarnishing of silver. G. W. Vinal and G. N. Schramm. il diag Metal Ind 22:15-17, 110-11, 151-2, 231-3 Ja, Mr-Ap, Je '24

SILVER alloys
Insoluble anodes for electrolysis of brine; the lead-silver series. C. G. Fink and Li Chi Pan. Am Electrochem Soc Trans v 46 (preprint 8):129-35 O '24
List of alloys. W: Campbell. Metal Ind 23: 236-7 Je '25
Partition of silver between lead and zinc. W. A. Naish. il diag Brass W 21:309-13 S '25

SILVER alloys—*Continued*

Silber-kupfer-legierungen für schmelzsicherungen (streifensicherungen). R. Elder. Elektrotech Zeit 45:1397-8 D 18 '24

SILVER arsenate

Crystal structure of silver phosphate and silver arsenate (Ag_3XO_4). R. W. G. Wyckoff. diag Am J Sci 5th ser 10:107-18 Ag '25

SILVER as money

Currency situation and the market for silver in India. F: E. Lee. Econ W n s 28:510-12 O 11 '24

Face value, weight, fineness, and silver content of the principal silver coins. H. N. Lawrie. Eng & Min J 119:1040 Je 27 '25

Federal reserve board on Treasury department's move to restore silver dollars as circulating medium. Comm & Fin Chr 119:2959 D 27 '24

German government's program for minting new silver coins. Econ W n s 27:738-9 My 24 '24

Gold and silver imported into and exported from the United States, by countries. Comm & Fin Chr 119:2478 N 29 '24 [continued monthly]

Gold and silver imports and exports. See monthly numbers of Federal reserve bulletin

Improving our currency by using silver. A. W. Mellon. Am Bankers Assn J 17:214 O '24; Same. Comm & Fin Chr 119:1577 O 4 '24

McGregor bill. C. L. Breger. Eng & Min J 117:533-4 Mr 29 '24

Outlook for silver as seen in London. Econ W n s 30:623 O 31 '25

Poland's heavy purchase of silver. Manuf Rec 86:68 S 18 '24

SILVER azide

Action of bromine on sodium and silver azides. D. A. Spencer. Chem Soc J 127:216-24 Ja '25

SILVER bromate

Solubility of silver bromate in solutions of other salts and the corresponding activity relations. R. H. Dalton, R. Pomeroy and L. E. Weymouth. Am Chem Soc J 46:60-4 Ja '24

SILVER bromide

Studies with the microbalance; the photochemical decomposition of silver bromide. E. J. Hartung. diag Chem Soc J 125:2198-2207 N '24

SILVER carbonate

Thermal decomposition of silver carbonate. M. Centnerszwer and B. Bružs. J Phys Chem 29:733-7 Je '25

SILVER chloride

Action of an aqueous solution of sodium hyposulphite (hydrosulphite) on silver chloride; the recovery of silver from silver chloride residues. J. B. Firth and J. Higson. Soc Chem Ind J 42:427-9 N 9 '23

Solubility of slightly soluble chlorides in concentrated chloride solutions. J. Kendall and C. H. Sloan. Am Chem Soc J 47:2306-17 S '25

SILVER compounds

Adsorption of silver salts by silver iodide. J: S. Beekley and H. S. Taylor. J Phys Chem 29:942-54 Ag '25

Some new hydroxy-urethans and chromo-isomeric silver salts of their acyl derivatives. R. E. Oesper and W. Broker. Am Chem Soc J 47:2606-8 O '25

Some new hydroxy-urethans and chromo-isomeric silver salts of their acyl derivatives. R. E. Oesper and W. A. Cook. Am Chem Soc J 47:422-9 F '25

SILVER gelatino-halides

Photochemical studies; properties of the silver gelatino-halides; abstract. A. Reychler. Soc Chem Ind J (Abstracts) 44:265-6 Ap 17 '25

SILVER halides

Dispersity of silver halides in relation to their photographic behavior. F. E. E. Germann and M. C. Hylan. J Phys Chem 28: 449-56 My '24

Photomagnetic properties of the silver halides. A. Garrison. Am Chem Soc J 47: 622-6 Mr '25

Size-frequency distribution of grains of silver halide in photographic emulsions and its relation to sensitometric characteristics. E. P. Wightman, A. P. H. Trivelli and S. E. Sheppard. il J Phys Chem 28:529-43 Je '24

See also Silver bromide; Silver chloride; Silver iodide

SILVER hyponitrite

Hyponitrites. L. W. Jones and A. W. Scott. Am Chem Soc J 46:2172-5 O '24

SILVER industry and trade

Demand for silver. Metal Ind 22:198 My '24

Direct trade between India and America in silver. R. D. Birla. il Eng & Min J 116:884-6 N 24 '23

English gold and silver markets. Published in weekly numbers of Commercial and financial chronicle

Functions of the Silver producers' association. F. H. Brownell. Eng & Min J 118: 804-5 N 22 '24

Gold and silver in 1923. J. P. Dunlop. U S Geol S Min Res of U S 1923, pt 1:549-85, pl 1 '25

Gold and silver problems outlined. Min Cong J 10:129-30 Mr '24

Increased demand for silver in the world's markets, with special reference to India. Econ W n s 29:9-11 Ja 3 '25

Interpretation by Federal trade commission of provisions of Webb-Pomerene export trade act respecting formation of export association by silver producers. Comm & Fin Chr 119:649-50 Ag 9 '24; Same abr. Eng & Min J 118:224-5 Ag 9 '24

Outlook for silver. W. M. Ferry. Min Cong J 11:528 N '25

Outlook for the price of silver. C. C. Latour. Annalist 23:39-40 Ja 7 '24

Preliminary official estimates of the production of gold and silver in the United States in 1924. Econ W n s 29:88 Ja 17 '25; Comm & Fin Chr 120:139-40 Ja 10 '25

Problems of American silver producers. W. M. Ferry. Min Cong J 10:536-7+ D '24

Results of work of Senate commission of gold and silver inquiry. T. L. Oddie. Comm & Fin Chr 119:647-9 Ag 9 '24

Review of the silver market for 1923. Metal Ind 22:68 F '24

Review of the silver market for 1924. Metal Ind 23:70 F '25

Silver market aided by European purchases. F. E. Wormser. Eng & Min J 118:319 Ag 23 '24

Silver market shows improvement in 1924. F. E. Wormser. Eng & Min J 119:142-3 Ja 17 '25

Silver; marketing and statistics, 1923. F. E. Wormser. Eng & Min J 117:137 Ja 19 '24

Silver supply and demand. Metal Ind 23:139 Ap '25

World's silver. Brass W 20:290 Ag '24

SILVER iodide

Adsorption of silver salts by silver iodide. J: S. Beekley and H. S. Taylor. J Phys Chem 29:942-54 Ag '25

Behavior of silver iodide in the photo-voltaic cell. A. Garrison. J Phys Chem 28:333-45 Ap '24; Discussion. 29:557-63, 1406-7 My, N '25

Behavior of silver iodide in the photo-voltaic cell; a new type of silver iodide photo-voltaic cell. A. Garrison. J Phys Chem 29: 58-67 Ja '25

Third law of thermodynamics and calculation of entropies. T. J. Webb. J Phys Chem 29: 816-33 Jl '25

SILVER metallurgy

Blast roasting an improvement over old Patera process in Bolivia. R. D. Ferron. Eng & Min J 118:853-4 N 29 '24

SILVER metallurgy—*Continued*
Cobalt: bonanza silver district of Ontario. A. A. Cole. il map Eng & Min J 118:325-30 Ag 30 '24
Cyaniding silver at the Rosario mill. P. T. Bruhl and H. J. Mainell. flow sheets il Eng & Min J 120:85-90 Jl 18 '25
Design and operation of the United Comstock mill. B. P. Little. il diags Eng & Min J 117:516-22, 599-64 Mr 29-Ap 5 '24
Develop roast for silver-manganese ore prior to cyanidation; Caron process. Eng & Min J 119:1061 Je 27 '25; Same. Min Cong J 11: 362 Jl '25
Experiments in cobalt-silver-nickel smelting. A. C. Harris. Eng & Min J 118:214-16 Ag 9 '24
How cyanidation was first applied to silver ores. B. MacDonald. Eng & Min J 119:1003-4 Je 20 '25
Metallurgical history of the California Rand. M. N. Colman. flow sheets il Eng & Min J 118:175-81 Ag 2 '24
Nevada's newest silver producer—the Betty O'Neal mine. W. S. Palmer. il plan Eng & Min J 117:449-52 Mr 15 '24
Silver in chloride volatilization. C. M. Bouton, W. C. Riddell and L. H. Duschak. diag U S Bur Mines Tech Pa 317:1-56 '24
Tintic Standard reduction plant. A. B. Parsons. flow sheet il diag Eng & Min J 120:284-8 Ag 22 '25
Treatment of manganese-silver ores. G. H. Clevenger and M. H. Caron. il diags U S Bur Mines Bul 226:1-110, pl 1-13 '25
Treatment of refinery slag at Rosario. S: G. Lasky. Eng & Min J 119:252 F 7 '25
See also Amalgamation; Cyanide process

Bibliography
Bibliography of the treatment of manganese-silver ores. G. H. Clevenger and M. H. Caron. U S Bur Mines Bul 226:102-5 '25

SILVER mines and mining
Silver mining in 1923. S. J. Jennings. Eng & Min J 117:87 Ja 19 '24

Cost
Silver ore today and 50 years ago. H. R. VanWagenen. Eng & Min J 116:974 D 8 '23

Bolivia
Story of Potosi; world's richest silver district, discovered in 1544. M. G. Edwards. il Eng & Min J 118:259-61 Ag 16 '24

California
Possibilities of the Calico mining district. F. B. Weeks. il map Eng & Min J 119:757-63 My 9 '25

Colorado
Aspen smelting co. hopes to revive old Colorado camp. il Eng & Min J 119:457 Mr 14 '25

Mexico
Fresnillo glory-hole mining practice. T: C. Baker. diags plans Eng & Min J 116:931-42 D 1 '23
Humboldt mining co. opens old silver-copper property in Mexico. H: M. Payne. il Eng & Min J 117:184 Ja 26 '24
Pachuca: home of the patio process. B. Burwell. il map Eng & Min J 118:725-30 N 8 '24

Nevada
Geology and ore deposits of the Rochester district, Nevada. A. Knopf. diags map U S Geol S Bul 762:1-78, pl 1-4 '24
Mining methods at Gold Hill, Nevada. G: J. Young. il diags plan Eng & Min J 117:916-21 Je 7 '24
Nevada's newest silver producer—the Betty O'Neal mine. W. S. Palmer. il plan Eng & Min J 117:449-52 Mr 15 '24
Tonopah, Nevada's best-known silver district. H. D. Budelman. il map Eng & Min J 118: 5-10 Jl 5 '24

Ontario
Cobalt: bonanza silver district of Ontario. A. A. Cole. il map Eng & Min J 118:325-30 Ag 30 '24
Ontario's silver production for the first quarter of 1924. Eng & Min J 118:773 N 15 '24
Romance of Cobalt—a famous silver camp and its development. E. L. Chicanot. il Dun's Int R 44:51-3 N '24
South Lorrain, Canada's newest silver bonanza. Eng & Min J 118:18 Jl 5 '24
South Lorrain silver area. C. W. Knight. 55p Legislative assembly of Ontario, Toronto '23

Queensland
Government geologist reports on Mount Isa silver-lead field. il Eng & Min J 118:149-50 Jl 26 '24
Mount Isa silver-lead field Australia's newest find. A. W. Newberry. il maps Eng & Min J 118:165-71 Ag 2 '24
Silver-lead discoveries in Queensland promise big things. Eng & Min J 116:957 D 1 '23

United States
American silver producers against proposal to revalue properties. Eng & Min J 120:109-12 Jl 18 '25
Gold and silver relief recommended by commission. Min Cong J 11:44+ F '25
Internal revenue rules no general revaluation of silver mines necessary. P. Wooton. Eng & Min J 120:546 O 3 '25
Leasing of silver mines. Am Ind 26:21 Ag '25
Revaluation of silver mines strongly opposed. M. W. Kriegh. Min Cong J 11:377+ Ag '25
Treasury representatives state case to silver producers. P. Wooton. Eng & Min J 120:105-7 Jl 18 '25

Utah
Story of Tintic Standard. A. B. Parsons. il maps Eng & Min J 120:205-10 Ag 8 '25
Tintic, Utah; active since 1870. H. E. Havenor. il diags map Eng & Min J 117:355-61 Mr 1 '24
Tintic Standard mine. A. B. Parsons. il diag maps plan Eng & Min J 120:645-52 O 24 '25

SILVER ores
Notes on silver-lead deposits of Slocan district, British Columbia, Canada. A. M. Bateman. Econ Geol 20:554-72 S '25
Observations on the rich ores of Aspen, Colorado. E. S. Bastin. il U S Geol S Bul 750—C:41-62, pl 3 '24
Origin of certain rich silver ores near Chloride and Kingman, Arizona. E. S. Bastin. diags maps U S Geol S Bul 750—B:17-39 '24
Petrified wood carrying silver at Creede, Colo. V: G. Hills. Eng & Min J 117:647 Ap 19 '24
Primary native silver ores of South Lorraine and Cobalt, Ontario. E. S. Bastin. il Econ Geol 20:1-24, pl 1-7 Ja '25
Tintic Standard mine. A. B. Parsons. il diag maps plan Eng & Min J 120:645-52 O 24 '25
Transvaal silver-lead deposit. P. A. Wagner. il map Econ Geol 19:651-67 N '24

SILVER oxide
Oxidation of carbazole by silver oxide. G. E. K. Branch and W. W. Hall. Am Chem Soc J 46:438-45 F '24

SILVER perchlorate
Ternary system: silver perchlorate, pyridine and water. R. Macy. Am Chem Soc J 47: 1031-6 Ap '25
Ternary systems; silver perchlorate, aniline and water. A. E. Hill and R. Macy. diags Am Chem Soc J 46:1132-50 My '24
Ternary systems; silver perchlorate, toluene and water. A. E. Hill and F: W. Miller, jr. Am Chem Soc J 47:2702-12 N '25

SILVER phosphate
Crystal structure of silver phosphate and silver arsenate (Ag_3XO_4). R. W. G. Wyckoff. diag Am J Sci 5th ser 10:107-18 Ag '25

SILVER plating
Individual control of gold and silver deposited by weight. J. A. Hall. Brass W 20:213 Je '24; Same. Metal Ind 22:268 Jl '24

SILVER plating—*Continued*
Renovating interior trimmings of passenger cars. il Ry Mech Eng 99:100-3 F '25

See also Electroplating; Plating

SILVER producers' association
Functions of the Silver producers' association. F. H. Brownell. Eng & Min J 118:804-5 N 22 '24

SILVER salvarsan
Silver-salvarsan. W. H. Gray. Soc Chem Ind J (Chem & Ind) 44:583 Je 5 '25

SILVER sulfide
Spectro-photoelectrical effects in argentite; the production of an electromotive force by illumination. P. H. Geiger. diag Phys R 22: 461-9 N '23

SILVERSMITH mines, ltd.
Report, year ended May 31, 1924. Eng & Min J 118:158 Jl 26 '24

SILVERSMITHING
Sterling silver model of ship in which Columbus made voyage to America. il Brass W 21:303 S '25
Three periods of American silversmithing. A. F. Saunders. il Metal Ind 23:148-50, 324-6 Ap, Ag '25

SILVERWARE
Design and craftsmanship in early American silver. E. J. Hipkiss. il Arch Forum 42:359-60; 43:119-20 My, Ag '25
Three periods of American silversmithing; first period, American colonial silver, 1620-1800. A. F. Saunders. il Metal Ind 23:148-50 Ap '25
Three periods of American silversmithing: second period, American silver of the past, 1800-1880. A. F. Saunders. il Metal Ind 23: 324-6 Ag '25

See also Sheffield plate

Advertising
Copy idea broadens market for 1847 Rogers. Ptr Ink 133:132+ O 29 '25

SIMLA, India
Water supply
High head pumping plant for Simla water supply. il diags (supp) Engineer 139:162, 167 F 6 '25

SIMMONS hardware company
Merger in 1922 of the Winchester co., New Haven, Conn., and the Simmons hardware co., St Louis. Iron Age 113:316-17 Ja 24 '24

SIMMS petroleum company
Annual report—for year ended December 31, 1924. Comm & Fin Chr 120:1629-31 Mr 28 '25
Simms increase profits in spite of low crude prices. R. B. Stafford. Nat Pet N 17:79-80 Ap 15 '25

SIMPLIFICATION in industry
Are there any real obstacles to simplification? R. M. Hudson. Factory 35:537-8 O '25
British industry moving toward simplification. J. F. Whiteford. Ind Management 69:193-6 Ap '25
British test of simplification. F. L. Impey. System 48:431-3 O '25
Dealers surprise manufacturers by wanting shorter lines. Ptr Ink 127:61-2 My 8 '24
Department of commerce promotes elimination of useless varieties. Eng & Contr (Bldgs) 62:1199-1200 N 26 '24
Earl & Wilson reduce line in order to plus the sale. C. B. Larrabee. Ptr Ink 126:10+ F 21 '24
Economic progress of simplification. E. W. McCullough. Iron Age 113:285-7 Ja 24 '24
Eight industries tell what simplification has achieved. Ptr Ink 130:132-3+ Mr 26 '25
Electric lamp industry adopts simplified line. Ptr Ink 132:147-8 Ag 6 '25
Group simplification gains momentum. R. M. Hudson. Factory 35:193-6+ Ag '25
Helping buyers by simplifying varieties. H. B. Wilson. Elec W 83:696-7 Ap 5 '24
How can a trade association bring about standardization in an industry? H. P. Baker. Paper Tr J 77:27-8+ N 22 '23
How simplification benefits the consumer. Ptr Ink 132:89-90+ S 24 '25
How simplified practice will benefit railways. R. M. Hudson. Ry Age 77:155-6 Jl 26 '24
How to simplify a topsy-turvy line of products; Bennett glass & paint co., of Salt Lake City. Ptr Ink 127:61-2+ Ap 10 '24
How we have simplified four different products. C. L. Reierson. Factory 32:647-50 My '24
How we sold simplification to our retailers. F. H. Montgomery. System 47:29-33+ Ja '25
Improved distribution pays big dividends to industry. E. L. Shaner. il Iron Tr R 76:443-5+ F 12 '25
Industry's own opinions. Factory 35:538-9 O '25
It paid us to cut our line 75%. E. E. Curtis. Factory 32:24-6 Ja '24
Just how far does it pay to go with simplification. F. H. Montgomery. il Factory 32:153-6+ F '24
Lower prices, doubled volume—through simplification. R. R. Patch. il System 46:31-4+ Jl '24
More simplification—more advertising. Ptr Ink 130:97-8+ Mr 5 '25
New conservation. P. E. Holden. Mech Eng 46:606-7 O '24
1,675 face powders—who pays? I. S. Paull. il Nation's Business 13:66+ Je '25
Plugging profit leaks by reducing the line. Ptr Ink 127:17-20 My 29 '24
Preparing sales department and retailers for smaller lines. J. True. Ptr Ink M 8:41-2+ Mr '24
Report on simplification of practice. Oil Paint & Drug Rep 106:59-60 O 29 '24
Saving ten billion dollars for the ultimate consumer. E: N. Vose. il Dun's Int R 46:37-40 N '25
Simplification greatly benefits industries. E. L. Priest. Iron Age 115:43+ Ja 1 '25
Simplification: has it fulfilled its promise? Factory 34:911-14+ Je '25
Simplification in printed matter. J: Sullivan. Ptg Art 44:147-51 O '24
Simplification of manufacture points the way to more exports. Ptr Ink 128:41-2+ Ag 21 '24
Simplification of tires. Rubber Age 17:165-7 Je 10 '25
Simplification on the farm. E. L. D. Seymour. il Dun's Int R 44:46-50+ S '24
Simplification progress. Nation's Business 12: 56 Ap '24
Simplified practice. Blast F & Steel Pl 12: 508+ N '24
Simplified practice—a service to road builders. R. M. Hudson. Eng N 92:113 Ja 17 '24
Simplified practice made known. Iron Age 116: 5-6 Jl 2 '25
Simplified practice—what it is and what it offers. (Simplified practice recommendation) 33p U.S. Bur. of stand., Washington '24
Simplifying cloth but not styles increases volume and profits. A. Belden. Ptr Ink M 8:56, 59-60 Ap '24
Standardization and simplification with special reference to the saving of waste in industry. C. le Maistre. Engineering 120: 397-9 S 25 '25
Standardization and simplified practice in the textile industry. A. E. Foote. Textile World 67:846-8 F 7 '25
Standardization in the heating business. A. E. Foote. Sanitary & Heat Eng 103:399 Je 12 '25
Standardizing soft collars in four styles. il Am Exporter 95:50-1 Jl '24
Starting now to simplify next year's line. Ptr Ink 132:72 Jl 23 '25
Taking the guesswork out of business. W: R. Basset. Forbes 14:31-3, 103-4 Ap 12, 26 '24
Using simplification to increase our sales. J. Kahn. il System 47:151-6+ F '25
What simplification has done for us—25% increased sales, 30% lower costs. L: Ettlinger. Factory 31:744-7 D '23

SIMPLIFICATION in industry—*Continued*
Why advertising pays the consumer as well as the manufacturer; Plumb simplification-advertising policy. F. R. Plumb. Ptr Ink 125:3-4+ N 15 '23
Why not simplification in steel sheets? Iron Age 113:874-6 Mr 20 '24
Why we cut our line from 1,000 to 24 varieties. L: Sussman. il System 45:623-6+ My '24
Why we pioneered in simplification; Alumo skates. S. E. Collinson. il System 45:481-3+ Ap '24
Why we side-tracked precedent in our spring sales program. J. B. Wright. il Sales Management 6:791-2 Ap '24
Why we stopped making and selling a line of candies. G: H. Williamson. Sales Management 7:1451-2+ S '24
You couldn't tempt us to build two sizes or styles. W: H. Newbrough. il Factory 33: 194-6+ Ag '24
See also Paper sizes; *also* United States —Standards, Bureau of—Division of simplified practice

Bibliography
Bibliography of articles on simplification. Factory 32:318-20 Mr '24

SINCLAIR consolidated oil corporation
Annual report, 1923. Comm & Fin Chr 118: 2037 Ap 26 '24
Annual report, year ended Dec. 31, 1924. Comm & Fin Chr 120:2138-9 Ap 25 '25
Breaking Sinclair's claim to Sahalin means oil supply for Japan. L. E. Smith. map Nat Pet N 17:32+ Mr 25 '25
Sinclair wars on Standard; big independent is admitted to have edge in soviet Russia and also Persia. L: Fischer. Pet Age 14: 12-13+ Ag 15 '24

SINCOSITE
Occurrence and properties of sincosite, a new vanadium mineral from Sincos, Peru. W. T. Schaller. Am J Sci 5th ser 8:462-80 D '24

SINE bar
Blodgett sine-bar fixture. il Am Mach 62:865 My 28 '25
Sine bar as a universal planing gage. R. H. Rausch. il diags Mech Eng 46:345-8 Je '24
Sine-bar gage for large work. il Am Mach 61: 60-1 Jl 10 '24

SINGAPORE
Johore causeway. il (supp) Engineer 136:537-8 N 16 '23

Rapid transit
This trolley system pays 20 per cent; conditions in Shanghai and Singapore. il Aera 13:1469-78 Ap '25
Trackless trolley expansion in the Far East. il Elec Ry J 65:694 My 2 '25

SINGAPORE navy yard
Singapore base and practical naval strategy. Engineering 119:293-4 Mr 6 '25

SINGEING of textiles
Electric singeing machines. R. Sansone. diags Textile World 67:1507 F 28 '25
Gas singeing of cotton pile fabrics. J: T. Travis. Am Dyestuff Rep 14:3-4 Ja 12 '25
Singeing of cotton fabrics. J: T. Travis. il Am Dyestuff Rep 13:510-12+ Ag 11 '24
Singeing of textile fabrics and yarns. M. N. Conklin. il Chemicals (Dyestuffs sec) 16: 193-5 Je 22 '25
Singeing process. J. F. Springer. il Textile Col 46:35-9, 96-8 Ja-F '24
Some points on singeing cotton fabrics. W. J. Chester. Textile Col 47:34 Ja '25

SINGING
Scientific tests for good and bad singers. D. Stanley and H. H. Sheldon. il diags Sci Am 131:381-3+ D '24

SINKING funds
Soldiers' bonus and sinking fund raids. E: A. Bradford. Annalist 23:364+ Mr 24 '24

SINTERING machines
Fans for ore sintering. A. L. Greene. il Iron Age 114:692 S 18 '24
Sintering zinc ores. B. F. Buff. flow sheet il Eng & Min J 120:211-15 Ag 8 '25

SIOUX City, Iowa
See Electric plants (central stations) —Sioux City, Iowa

SIPHONS
Discharge of irrigation siphons in California. L. S. Hall. Eng N 93:1024-5 D 25 '24
Feat in gas distribution; a thirty-inch gas siphon under the Chelsea Creek, East Boston, Mass. D. S. Reynolds. il Am Gas J 122:285-6 Ap 4 '25
Improved low-head siphon has many virtues. J. A. Scollon. diag Coal Age 28:401-2 S 17 '25
Laying sewer siphon in Dayton. il Pub Works 55:185-6 Je '24
See also Hydrautomat

SIRUPS
See also Cornstalk sirup; Grape sirup; Sorghum sirup

Manufacture
Commercial syrup manufacture. H. Baker. Chem Age 32:263-4 Je '24
Industrial applications of invertase. H. S. Paine, C. F. Walton, jr., and M. S. Badollet. il plans Ind & Eng Chem 17:445-50 My '25

SISAL hemp
Government aid to producers affecting international commerce. W: S. Culbertson. Ann Am Acad 112:58-60 Mr '24
Sisal; production, prices, and marketing. L: Crossette. U S Bur For & Dom Com Trade Information Bul 200:1-7 '24

SISAL sales corporation
United States government's suit against Sisal sales corp.—monopoly in binder twine charged. Comm & Fin Chr 119:546-7 Ag 2 '24

SITOSTEROL
Reduction of sitosterol; preparation of dihydrositosterol or sitostanol. R. J. Anderson and F. P. Nabenhauer. Am Chem Soc J 46:1953-6 Ag '24
Sitosterol. R. J. Anderson and F. P. Nabenhauer. Am Chem Soc J 46:2113-18 S '24

SITTER, Willem de, 1872-
Geometrical note on de Sitter's world. P. Du-Val. diags Philos Mag 6th ser 47:931-8 My '24

SIX-POINT league
Trade commission amends charge against A.A.A.A. Sales Management 9:483 O 17 '25

SIZING (textiles)
Absorption of water by dried films of boiled starch. F: D. Farrow and E. Swan. bibliog diags Textile Inst J 14:T465-74 D '23
Analysis of sizing materials. J. J. Sokolinski. Am Dyestuff Rep 13:64-5; Discussion. 65-6 Ja 28 '24
Applying size and drying sized warp yarn. Textile World 68:2053-4+ O 3 '25
Flow of starch paste through capillary tubes. F: D. Farrow and G: M. Lowe. diags Textile Inst J 14:T414-40 N '23
Sizing. J. M. Widner. Textile World 65:4080 Je 21 '24
Sizing of linen fabrics and transparent batiste. A. Marshall. diag Am Dyestuff Rep 12:902-4 D 17 '23
Sizing with dextrine soap. Am Dyestuff Rep 14:108-11 F 23 '25
Skein sizing of celanese. A. H. Grimshaw. il Textile World 67:320-1 Ja 17 '25
Starch. J. Woodman. Textile Col 47:232-4 Ap '25
Starches; their fluidity and viscosity in relation to sizing value for textiles. W. A. Nivling. 82p Barr-Erhardt press, inc., New York '24
See also Cotton sizing; Desizing (textiles); Sizing machines

Testing
Comparative tests of various sizing materials on artificial silk. W. F. Curry. Textile Col 46:489-93 Ag '24

SIZING machines
Hot-air sizing machine. diag Textile World 66:3731 D 27 '24
Johnson sizing machine for artificial silk. il Textile World 67:459 Ja 24 '25; Textile Col 47:444-5 Jl '25
Saco-Lowell slasher for sizing rayon. il Textile World 68:2499 O 24 '25

SIZING of paper. See Paper sizing

SKAGIT river power project
First unit of Skagit project formally started. il J Elec 53:304 O 15 '24
Further development on Skagit river deferred. Eng N 93:155 Jl 24 '24
Mountains light a city. T: R. Horner. il Sci Am 133:112-13 Ag '25
Power for Seattle from Skagit river. il Power Pl Eng 28:1170-2 N 15 '24
Seattle billed $683,097 for Skagit tunnel extras. Eng N 93:355 Ag 28 '24
Skagit river development of Seattle system. Power 61:970 Je 16 '25
Skagit river development of the city of Seattle. J. D. Ross. il J Elec 55:81-3 Ag 1 '25

SKATES
Large uses of steel in small ways. il Iron Tr R 74:1629 Je 19 '24

SKELLY oil company
Skelly company's earnings turn upward after 1924 slump. Nat Pet N 17:100 Jl 29 '25

SKIN
Effect of sulfides on the alkaline hydrolysis of skin and hair. H: B. Merrill. Ind & Eng Chem 17:36-9 Ja '25
Hydrolysis of skin and hair. H: B. Merrill. Ind & Eng Chem 16:1144-6 N '24

Diseases

Acute dermatitis among painters employed in an industrial plant. J. A. Turner. J Ind Hygiene 7:293-8 Jl '25
Essential factors in the recording of cases of skin diseases due to occupation. C. G. Lane. J Ind Hygiene 5:366-70 F '24
Irritations of the skin due to industrial causes. C. G. Lane. Nation's Health 7:402-4 Je '25
Occupational stigma on the breast of shoemakers not yet described in literature. M. Oppenheim. J Ind Hygiene 6:67-9 Je '24
Skin disease among employees in fruit-packing plants. H. B. Myers and C. H. Thienes. Monthly Labor R 21:403-4 Ag '25
Skin diseases with particular reference to their industrial application. C. G. Lane. bibliog J Ind Hygiene 7:444-50 O '25
Statistics, definition, and clinical aspects of the occupational and industrial dermatitides. M. Oppenheim. J Ind Hygiene 7:407-27 S '25

See also Bakers' itch; Blastomycosis; Lime dermatitis; Nickel eczema

SKIN effect
Precise method of calculation of skin effect in isolated tubes. H. B. Dwight. Am Inst E E J 42:827-32 Ag '23; Discussion. 43:760-1 Ag '24
Properties and testing of magnetic materials. T. Spooner. Elec J 22:508-14 O '25
Skin effect in slot wound conductors. A. Press. Electrician 92:4-5 Ja 4 '24; Discussion. 92:73-4, 261, 356, 487 Ja 18, F 29, Mr 21, Ap 18 '24

See also Electric conductors; Electric resistance; Electromotive force

SKIN friction
Frictional resistance of ships. G. S. Baker. Engineer 140:207-8 Ag 28 '25
Skin friction. L. Bairstow. Roy Aeronautical Soc J 29:3-14; Discussion. 15-23 Ja '25; Abstracts. Engineering 118:742, 831 N 28, D 19 '24; Mech Eng 47:210 Mr '25
Skin friction committee's report. Engineering 119:464-6; Discussion. 443 Ap 10 '25

SKIP wheels. See Mine skip wheels

SKIRTS
Skirts. F. J. Ringo. 127p (Merchandise manuals for retail salespeople.) Shaw '25

SKY
Light of the night sky. Rayleigh. J Fr Inst 199:105-6 Ja '25
Sky by day. M. Luckiesh. il Sci Am 130: 402+ Je '24

SKYLIGHTS
Constructing single pitch skylight. W: Neubecker. diags Sheet Metal Worker 15:960-1+ Ja 2 '25
Copper skylights on Chicago's newest building. C: H. Bishop. il Sheet Metal Worker 15:679 S 26 '24
Finding pitch for skylight hip bar. W: Neubecker. diags Sheet Metal Worker 16:275+ My 22 '25
Flat skylight on structural steel frame. diags Sheet Metal Worker 16:485-7, 511-12 Jl 31-Ag 14 '25
Skylight for capping old elevator shaft. il diag Sheet Metal Worker 16:5 F 13 '25
Skylight requirements in Washington building code. Sheet Metal Worker 16:403 Jl 3 '25
Skylight-roof on wheels covering the patio of the Pan-American Union building at Washington, D.C. H. Burkholder. il Sheet Metal Worker 15:71-2 F 29 '24
Skylight with valley and hip bar. diags plans Sheet Metal Worker 16:542-5+ Ag 28 '25
Some principles governing the proper utilization of the light of day in roof fenestration. W. S. Brown. diags Illum Eng Soc 19:269-87 Mr '24; Same. Eng & Contr (Bldgs) 63:1157-67 My 27 '25
Stamped bronze replaces cast work for skylight dome. il Sheet Metal Worker 15:388-9 Je 6 '24
Structural details of mammoth skylights. il plan Sheet Metal Worker 15:275-6 My 9 '24
Swinging sash in skylight work. W: Neubecker. diags Sheet Metal Worker 16:681-4 O 23 '25
Twenty-one thousand sq. ft. of skylights; California palace of the Legion of honor. il diag Sheet Metal Worker 15:962-3 Ja 2 '25

SKYSCRAPERS. See High buildings

SKYWRITING
Skywriting—a successful commercial activity. il Aviation 15:772-3 D 24 '23

SLABS, Concrete. See Concrete slabs

SLACK adjusters. See Brake rigging

SLAG
Basic slag as fertilizer. F. W. Carnahan. Eng & Min J 119:893 My 30 '25
Basic slag as phosphate fertilizer. W. H. Waggamann and H. W. Easterwood. il Chem & Met Eng 29:873-6 N 12 '23
Basic slags and rock phosphates. E. Vanstone. Soc Chem Ind J 44:155-7 Ap 3 '25
Beiträge zur frage der granulation und trocknung von hochofenschlacke. diags Stahl & Eisen 45:529-36, pl 19-20 Ap 9 '25
Blast-furnace slag as an aggregate in concrete. R. Harsch. flow chart Am Soc T M Pro 23 pt 2:255-73; Discussion. 274-5 '23
Cements from blast furnace slags in France. P. Prevost. diags Concrete (cement mill sec) 26:40-2 Mr '25
Color classification of blast furnace slags. W. G. Imhoff. il Blast F & Steel Pl 12:310-13, 362-7 Jl-Ag '24
Commercial uses of blast furnace slag. Ry R 73:807-8 D 1 '23
La conductibilité électrique des laitiers fondus. F. Farup, W. Fleischer and E. Holtan. diags Chimie & Ind 12:11-15 Jl '24
Constitution of basic slag. T. P. Colclough. Chem Age (Lond) 11:sup18-19 S 6 '24
Constitution of blast furnace slags. R: S. McCaffery. diags Iron Age 114:1130-1 O 30 '24; Same. Iron Tr R 75:1161-2 O 30 '24
Correlates iron and steel making practice. J. E. Fletcher. Iron Tr R 77:1030-2+ O 22 '25
Corrosive effect of slag. W. R. Dunham. diag Elec Ry J 64:732 O 25 '24
Einfluss des mangangehalts auf die hydraulischen eigenschaften von hochofenschlacken. R: Grün. Stahl & Eisen 44:1405-9, pl 6 N 6 '24

SLAG—*Continued*
Die einwirkung des sulfidgehaltes auf die eigenschaften von hochofenschlacken und hüttenzementen. R. Grün. Stahl & Eisen 45:344-6, pl 10 Mr 5 '25
Fluorine in the deoxidizing slag, and its influence on refractories in basic electric furnace practice. F. T. Sisco. Am Electrochem Soc Trans v 46 (preprint 19):257-72 O '24; Same cond. Iron Tr R 75:1305-7 N 13 '24; Abstract. Foundry 52:962 D 15 '24
Fluxes and slags in metal melting; discussion. Engineer 137:478 My 2 '24; Engineering 117:582-3 My 2 '24
Handling slag for East Sparta sludge beds. il Pub Works 56:383-4 O '25
Kritische untersuchung der bestimmung der kieselsäure in erzen, schlacken, zuschlägen und feuerfesten baustoffen. A. Stadeler. Stahl & Eisen 44:1477-81 N 20 '24
Making brick from slag concrete. C. E. Ireland. Iron Tr R 75:1159-60 O 30 '24; Same. Manuf Rec 86:85-6 N 20 '24; Same cond. Iron Age 114:1131+ O 30 '24
Making steel for ordnance use. J. B. Rhodes. Iron Tr R 74:1429-30+ My 29 '24; Same cond. Iron Age 113:1696-8 Je 5 '24
Metalloids in basic pig iron in openhearth practice. C. L. Kinney, jr. Blast F & Steel Pl 12:220-4+ My '24
Ein neues verfahren zur herstellung von rohren aus hochofenschlacke. F: Riedel. il Stahl & Eisen 44:1173-4 S 25 '24; Abstract. Mech Eng 47:51 Ja '25
Proposed method for studying the attack of molten slags and glasses upon refractory materials. C: I. Rose. Am Cer Soc J 6:1242-7 D '23
Putting slag to work. il Sci Am 133:44-5 Jl '25
Refining metals electrically; using fluorspar and other slags. L. J. Barton. il Foundry 52:813-16, 861-4, 897-9, 932-6+, 967-70+; 53: 9-13 O 15 '24-Ja 1 '25
Research method for blast furnaces. W. G. Imhoff and D. E. Ackerman. il Iron Age 115:203-11 Ja 15 '25
Richtlinien für die herstellung und lieferung von hochofenschlacke als zuschlagstoff für beton und eisenbeton. Stahl & Eisen 44: 590-1 My 22 '24
Schlackensand als zuschlagstoff für beton und eisenbeton. H. Burchartz. Stahl & Eisen 44:650-7 Je 5 '24
Slag formation in tubes of powdered-coal-fired boilers. J. G. Coutant. diags Power 61: 987-8 Je 23 '25
Slag is scattered hydraulically. J: D. Knox. Iron Tr R 74:1301-4 My 15 '24
Treatment of refinery slag at Rosario. S: G. Lasky. Eng & Min J 119:252 F 7 '25
Ueber den einfluss der tonerde und der magnesia auf die chemischen eigenschaften der silikatschlacken. R. Durrer. Stahl & Eisen 45:346-8 Mr 5 '25
Ueber die eigenschaften von elektrozement und seine verwendbarkeit zur herstellung von hüttenzementen. A. Guttmann. il Stahl & Eisen 44:786-92 Jl 3 '24

See also Blast furnaces

Specifications

Standard specifications for broken slag for waterbound base and wearing course. Am Soc T M Standards 1923:91-2
Standard specifications for shovel-run or crusher-run broken slag for waterbound base. Am Soc T M Standards 1923:93-4

SLAG wool. See Mineral wool

SLASHERS. See Drying apparatus—Textiles

SLATE
Characteristics of slate. O. Bowles. Am Soc T M Pro 23 pt 2:524-34; Discussion. 555-69 '23
Economic factors in roofing manufacture. J. L. M. Yardley. flow sheets il plan Chem & Met Eng 31:659-63 O 27 '24
Electrical slate. D. Harvey and J: J. Keyes. Am Soc T M Pro 23 pt 2:535-44; Discussion. 555-69 '23
Industrial applications of structural slate. F. E. Gooding. il Ind Eng 83:532-5+ N '25
Noel slate and manufacturing company. L. C. Marshall. 52p Univ. of Chicago press, Chicago '22
Production of slate in 1923. Comm & Fin Chr 118:493-4 F 2 '24; Same, without table. Eng & Contr (Bldgs) 61:485 F 27 '24
Slate as a switchboard material. R. Notvest. il diags Ind Eng 83:271-5 Je '25
Slate in 1924 valued at $11,816,000. Manuf Rec 87:77 Ja 29 '25
Technical progress in slate mining. O. Bowles. il Eng & Min J 117:605-9 Ap 12 '24

Specifications

Simplify structural slate. Sanitary & Heat Eng 101:276-7 My 2 '24

Testing

Insulation tests of slate for electrical use. R. M. Spurck. diags Am Soc T M Pro 23 pt 2:545-54; Discussion. 555-69 '23

SLATE waste
New ways to use slate. il Sci Am 130:167 Mr '24

SLAUGHTERING and slaughter houses
Labor productivity in slaughtering. E. Stewart. Monthly Labor R 18:488-95 Mr '24

Safety devices and measures

See also Knives—Safety guards

SLEEP
What is sleep? Sci Am 130:88 F '24

SLEEPING cars
Exit the Pullman car hammock. il Sci Am 130:95 F '24
Give your best—charge a fair price; management characteristics of G: M. Pullman. il System 45:190-1 F '24
Kitchen and sleeping cars on L.M.S. il Ry Age 79:609-10 O 3 '25
Latest Pullman sleeping car equipment; illustrations. Ry R 74:49 Ja 5 '24
New Canadian National sleeping cars. il diags plans Ry Mech Eng 98:27-30 Ja '24; Same cond. Ry Age 76:189-90 Ja 12 '24
Sleeper service on Interstate. plan Elec Ry J 63:216 F 9 '24
Sleeping car service begun by Interstate public service company. il plan Elec Ry J 64:801-3 N 8 '24
Sleeping car trains of the Illinois traction system. il Aera 12:1181-6 F '24

See also Railroads—Fares

Heating and ventilation

Test on steam heating requirements of sleeping cars. H. A. Woodworth. Heat & Ven 22: 68 My '25

Safety measures

Close up of Pullman safety. G: E. Wallis. il Nat Safety N 8:9-12 D '23

SLEEPING sickness
A fly versus a civilization. il map Sci Am 132:402+ Je '25

See also Trypanosomes

SLEET
Prevention of sleet trouble on high-tension lines. G: S. Diehl. il Elec W 83:192-3 Ja 26 '24
Sleet and ice troubles on transmission lines in New England. C. R. Oliver. il diag map Am Inst E E J 44:1171-6; Discussion. 1176-7 N '25

SLIDE rule
Aid to slide rule calculations. C. N. Miller. Eng N 93:71 Jl 10 '24
Airship slide rule. E. R. Weaver and S. F. Pickering. il U S Nat Advisory Com for Aeronautics 1923:93-102 '24
Complex quantity slide rule. J. W. M. DuMond. il diags Am Inst E E J 44:133-9 F '25
Extreme accuracy with a slide rule. Power 58:920 D 4 '23
Increasing the accuracy of slide-rule calculations. C. Cornwall. diag Mach 30:799 Je '24

SLIDE rule—*Continued*
New complex calculator; more accurate form of Grinsted rule. A. Rosen. Electrician 93: 174 Ag 15 '24
New slide rule simplifies design work. Blast F & Steel Pl 12:165 Mr '24
Simplified slide rule method for calculating transformer efficiencies. N. Lee. Am Inst E E J 43:1040-2 N '24
Special slide rule for apparent purity calculations. H. J. Bastone. il Ind & Eng Chem 16: 175 F '24
Über einen rechenschieber für komplexe zahlen. J. Spielrein. Elektrotech Zeit 45: 849-52 Ag 7 '24
Verbesserter rechenschieber zur raschen berechnung und veranschlagung elektrischer leitungen. E. Besser. il diags Elektrotech Zeit 46:1511-12 O 1 '25

SLIDE valves
Device for illustrating the operation of a slide valve. S: P. Baird. diag Power 62:256 Ag 18 '25
Operation of D slide valve. diags Power 59:31 Ja 1 '24
Why the D slide valve has lap and lead. il diags Power 59:481-2 Mr 25 '24

SLINGS and hitches
Use of slings for heavy parts. il diags Power Pl Eng 28:955-7 S 15 '24

SLIP (gases)
Coefficients of slip and momentum transfer in hydrogen, helium, air and oxygen. E: Blankenstein. diags Phys R 22:582-9 D '23

SLIP rings
Collector rings on synchronous motors wear unevenly. Power 61:740, 918 My 12, Je 9 '25

SLIPS (ceramics)
Preparing and spraying a glaze slip with especial reference to the control of the various operations. R. Twells, jr. il diags Am Cer Soc J 7:465-73; Discussion. 473-4 Je '24
Slip making and control. P. H. Sanborn. Am Cer Soc J 8:553-7; Discussion. 557-64 S '25
Slip painting process suited to the craftsman whose equipment is limited. D. W. Cox. Am Cer Soc J 8:310-12 My '25
Study of slips for standard finish terra cotta (cones 4-5). H. E. Davis and J. S. Lathrop. diags Am Cer Soc J 8:23-8 Ja '25

SLIPWAYS. See Cradles (docks)

SLOAN, Alfred P., jr.
"We face the future without fear, with faith" —Sloan. B. C. Forbes. por Forbes 13:759-60+ Mr 29 '24

SLOGANS
Adding more than one slogan to the advertising staff. A. L. Townsend. Ptr Ink 129: 135-6 O 16 '24
Advertisers attach more value to slogans. Ptr Ink 133:166 O 22 '25
Do the best sales ideas come from the home office? Ptr Ink M 9:90+ Jl '24
Get me up something like "say it with flowers." Ptr Ink 133:129-30+ O 1; 157-8 O 8 '25
How advertisers are securing added slogan protection. Ptr Ink 125:124 N 29 '23
How to protect a business slogan or trademark. E. J. Buckley. Rubber Age 15:53-4 Ap 25 '24
Let's get up some slogans. Ptr Ink 126:133 Ja 24 '24
More slogans seek clearance papers. Ptr Ink 126:94+ Ja 10 '24
Registration of slogans as trade-marks. Ptr Ink 125:85-6+ N 29 '23
Should a product have more than one slogan? Ptr Ink 127:165-6+ My 15 '24
Slogans aren't clever inventions—they grow. R. Dickinson. Ptr Ink 127:17-20 Ap 24 '24
Slogan's importance and one way of safeguarding it. Ptr Ink 126:149-50+ Mr 20 '24
Printer's Ink maintains a clearing house of slogans for the benefit of its subscribers

SLOGANS, City
U.S. chamber of commerce will register only slogans of cities; list of slogans. Ptr Ink 133:113-16 O 15 '25

SLOSSON, Edwin Emery
Sketch. por Chem & Met Eng 30:816 My 26 '24

SLOTS
See also Bolts and nuts

Standards
Standard T-slots. Am Mach 61:880; 62:490 D 4 '24, Mr 26 '25
Standardization of T-slots. diag Mach 30: 841; 31:192 Jl, N '24

SLOTTING
Using a punch press as a slotter. H: Densmore. il Am Mach 62:548 Ap 2 '25

SLOTTING machines
Baker brothers draw stroke driving box slotting machine. il Ry Mech Eng 99:123 F '25
Betts planer-type slotter. il Mach 30:816-17 Je '24; Am Mach 60:790 My 22 '24; Iron Age 113:1436 My 15 '24
Commutator slotter on banding lathe. il Elec Ry J 64:846-7 N 15 '24
48in. stroke portable slotting machine. il diags Engineer 138:474, 475 O 24 '24
Sellers triple-head locomotive-frame slotting machine. il Am Mach 62:864 My 28 '25; Ry Mech Eng 99:659-60 O '25
Slotter combined with banding lathe. il Elec Ry J 65:703 My 2 '25

SLUDGE treatment. See Sewage disposal—Activated sludge method

SLUICES. See Gates, Hydraulic

SLY, W. W., manufacturing company
Celebrates fiftieth anniversary. por Foundry 52:858 N 1 '24

SMALL holdings. See Land tenure

SMALL house service bureau, Architect's. See Architect's small house service bureau

SMALL products. See Products, Small

SMALL space advertisements. See Advertisements, Small space

SMALLPOX
Smallpox in American and Canadian cities in 1924. Econ W n s 29:819 Je 6 '25
Smallpox in American cities and Canadian provinces in 1924. Econ W n s 29:601-2 Ap 25 '25
Virulence of smallpox in the United States and Canada in 1925. Econ W n s 30:637-8 O 31 '25

See also Vaccination

SMART, George, 1863-1925
Sketch. por Iron Age 115:1515 My 21 '25; Iron Tr R 76:1354+ My 21 '25

SMEATON, John, 1724-1792
Famous machinists of history. H. H. Manchester. por Am Mach 61:54 Jl 10 '24

SMELL
Psycho-galvanic measurement of smell. S. J. M. Auld. diag Inst Pet Tech J 9:389-91 O '23

SMELTING
Advantages of local smelting. J. A. Parker. il Eng & Min J 117:265-6 F 9 '24
Discoveries of the Darbys of Coalbrookdale. T. S. Ashton. Engineer 138:475-6 O 24 '24
Experiments in cobalt-silver-nickel smelting. A. C. Harris. Eng & Min J 118:214-16 Ag 9 '24
Smelting iron ore in Oregon in 1867. R. C. Gosreau. il Iron Tr R 76:1062-3 Ap 23 '25
Smelting secondary aluminum and aluminum alloys. R. J. Anderson. Metal Ind 23:10-12 Ja '25
Smelting with pulverized coal. G. S. Guess. Can Eng 47:600 D 16 '24
Standardization applied to Arizona smelters. G. W. Prince. il Min Cong J 11:153 Ap '25
Die verwendung von Martinschlacke als flussmittel beim schmelzen in kuppel- und flammöfen. H. Späthe. Stahl & Eisen 45: 297-9 F 26 '25

See also Blast furnaces; Flux; Furnaces, Metallurgical; Metallurgy; Ore treatment; Slag; Smelting works

SMELTING, Electric
Combining the retort process with electric smelting of zinc ores. E. W. Hale. Eng & Min J 118:375-7 S 6 '24
Electro-metallurgical applications. J. L. M. Yardley. diag Blast F & Steel Pl 12:532-5; 13:20-5 [bibliog. p. 25+] D '24-Ja '25
Die elektrische leitfähigkeit von elektrohochofen-möllern. R. Durrer. il Stahl & Eisen 45:10-11 Ja 1 '25
Steel direct from iron ore; new electric process developed in Sweden. H. Flodin. il Iron Age 116:1247-8 N 5 '25; Same. Blast F & Steel Pl 13:424-5 N '25; Same. Engineering 120:432 O 2 '25; Abstracts. Elec R (Lond) 97:638-9 O 16 '25; Discussion. Engineering 120:333-4 S 11 '25; Engineer 140:263 S 11 '25
See also Electric furnaces, Metallurgical; Electrometallurgy

SMELTING, Pyritic
Roasting ores in hydrogen. H. Conder. Eng & Min J 116:943 D 1 '23

SMELTING works
El Paso smelter. G: J. Young. flow sheet il diag Eng & Min J 119:1041-7 Je 27 '25
New Magma Copper smelter. H. A. Ruth. flow sheet il diags plan Eng & Min J 118: 685-93 N 1 '24
Notes on western lead smelters. A. B. Parsons. il diags Eng & Min J 119:876-83 My 30 '25
Plant expansion should increase output of Consolidated mining and smelting co. A. B. Parsons. il Eng & Min J 119:299-300 F 14 '25
Tacoma copper smelter and refinery. G: J. Young. il plans Eng & Min J 119:557-62 Ap 4 '25
United Verde smelter. G. J. Young. il diags Eng & Min J 118:97-101 Jl 19 '24; Discussion. S. S. Sörensen. 118:262-3 Ag 16 '24
See also Metallurgical plants

SMITH, Adam, 1723-1790
Introduction of Adam Smith's doctrines into Germany. C. W: Hasek. (Columbia univ. Studies in history, economics and public law) 155p [bibliog. p. 150-2] Longmans '25
Retrospect of free-trade doctrine. W: Ashley. Econ J 34:501-39 D '24

SMITH, Alfred G.
Heads American shipbuilding co. por Marine R 55:200 My '25

SMITH, Alfred H., 1863-1924
Sketch. Comm & Fin Chr 118:1224-5 Mr 15 '24; por Ry Age 76:751-3 Mr 15 '24

SMITH, Eugene W.
Collects sand samples in his spare time. por Foundry 53:581 Jl 15 '25

SMITH, George Otis
Portrait. Chem & Met Eng 29:1130 D 24 '23

SMITH, Jeremiah, jr.
Drafting the brains behind the dollar; Americans serving in rôle of financial advisors to foreign countries. R. A. Lewis, jr. por Am Bankers Assn J 16:699-700 My '24

SMITH, Willard Adelbert, 1849-1923
Sketch. por Ry R 73:823-9 D 8 '23

SMITHELLS, Arthur
Presentation of a portrait and a scholarship. por Gas J (Lond) 168:637-40 D 3 '24; Chem Age (Lond) 11:552 N 29 '24; Soc Chem Ind J (Chem & Ind) 43:1240 D 12 '24

SMITHSONITE
Germanium in smithsonite and mine waters, from the Hudson mine, Livingston county, Kentucky. J: H. Müller. Ind & Eng Chem 16:604-5 Je '24

SMOKE
Automatic measurement of atmospheric pollution. J: S. Owens. Soc Chem Ind J (Chem & Ind) 43:866-71 Ag 29 '24
Effect of atmospheric impurities on buildings. F. Baines. Gas J (Lond) 168:575-7 N 26 '24
Smoke; a study of town air. J. B. Cohen and A. G. Ruston. 2d ed., enl. 108p Longmans '25
Smoke, and the meaning it has in our life today. F. W. Parsons. Gas Age 55:227-8+ F 14 '25
See also Combustion; Flues; Fuel; Locomotives—Smoke problem; Mechanical draft; Smoke prevention

SMOKE boxes, Locomotive. See Locomotive smoke boxes

SMOKE jacks
Report on smoke jacks for roundhouses. Ry Age 77:755-6 O 25 '24

SMOKE prevention
Annual conference of the Smoke abatement league of Great Britain. Elec R (Lond) 97: 635-6, 674 O 16-23 '25
Atmospheric pollution and smoke abatement. J: B. C. Kershaw. diags Engineer 138:545-6 N 14 '24
British ideas on smoke abatement and public health. Gas Age 52:593-4+ N 10 '23
Carbonized coal as smokeless fuel. Power Pl Eng 28:1190 D 1 '24
Coal dust annoyance solved by new smokestack at Atlantic City electric co.'s power plant. Power 61:398 Mr 10 '25
Economy through smoke abatement. H. B. Meller. Ind & Eng Chem 16:1049-51 O '24
Effect of light on health. L. Hill. Gas J (Lond) 168:569-70 N 26 '24
Eliminate the smoke. Power 59:29, 263 Ja 1, F 12 '24
Future prospects of a clean atmosphere. W. B. Smith. Soc Chem Ind J (Chem & Ind) 43:1209-10 D 5 '24
Gas—an efficient fuel and a remedy for smoke. Gas J (Lond) sup 3:79 Ap 30 '24
Government inaugurates new smoke abatement campaign. Heat & Ven 20:62 N '23; Power Pl Eng 27:1173 D 1 '23
How Akron handles smoke abatement. R. C. Demary. Power 59:256 F 12 '24
Industry and smoke abatement. Mrs C. Brereton. Gas J (Lond) 170:731 Je 10 '25
Objectional smoke—its causes and abatement. H. B. Meller. Eng & Contr (Bldgs) 62:1384-6 D 24 '24
Overcoming the smoke evil in Great Britain. A. C. Blackall. Gas Age 54:863-4 D 20 '24
Preheating air to reduce smoke. diag Power 59:167 Ja 29 '24
Presidential address. W. Heathcote. Gas J (Lond) 165:376 F 13 '24
Proposed standard smoke ordinance. Mech Eng 46:303-5 My '24; Excerpt. Power 59:740 My 6 '24
Providence considering smoke abatement. H. W. Ballou. Elec W 86:222-3 Ag 1 '25
Relation of low-pressure heating boilers to municipal smoke problem. Munic & Co Eng 66:178-80 Ap '24
Smoke abatement. O. Monnett. U S Bur Mines Tech Pa 273:1-30, pl 1-12 '23
Smoke abatement; a study of the police power as embodied in laws, ordinances and court decisions. L. H. Cannon. 319p [bibliog. p. 305-12] St Louis public library, St Louis '24; Abstract. Mech Eng 46:903-4 D '24
Smoke abatement activities in the city of Harrisburg, Pa. Eng N 94:893 My 28 '25
Smoke abatement as applied to house-heating boilers. Heat & Ven 21:65-6 S '24
Smoke abatement exhibition and a conference, Nov. 4-6. Gas J (Lond) 168:423-6, 516-19 N 12-19 '24; Chem Age (Lond) 11: 497 N 15 '24; Elec R (Lond) 95:729-30, 793-5, 832-3 N 14-28 '24; Soc Chem Ind J (Chem & Ind) 43:1119-25 N 14 '24; Soc Dyers & Col J 41:37-8 Ja '25
Smoke abatement investigation at Grafton, W. Va. O. Monnett and L. R. Hughes. map U S Bur Mines Tech Pa 338:1-29, pl 1-13 '24
Smoke nuisance from the manufacturer's view point. M. B. Smith. il Factory 35:404+ S '25

SMOKE prevention—*Continued*
Smoke nuisance may be eliminated. Blast F & Steel Pl 12:521-2 N '24

See also Chimneys; Combustion; Electric precipitation; Firing; Locomotives—Smoke problem; Mechanical draft; Stokers, Mechanical

SMOKE prevention association
Annual convention, Grand Rapids, Mich., June 17-20. Power 61:1047 Je 30 '25; Ry Age 79: 144-7 Jl 18 '25

SMOKE screens
Chemical industry makes its contributions to the aero national defense. C. P. McDarment. il Chem & Met Eng 30:261 F 18 '24
Screening smokes. H. W. Walker. il Ind & Eng Chem 17:1061-5 O '25

SMOKEHOUSES
Drying and smoking of fish for our tables. J. W. Piatt. il Gas Age 55:721-3+ My 16 '25
Smoking hams by gas and sawdust is latest and most efficient practice. Am Gas J 122: 15 Ja 3 '25

SMOKELESS powder
Grinding smokeless powder. Chem & Met Eng 31:158-9 Jl 28 '24
Transformations of diphenylamine during the aging of smokeless powder. T. L. Davis and A. A. Ashdown. Ind & Eng Chem 17:674-5 Jl '25

SMOKY Mountain national park (proposed)
Smoky Mountain national park. Manuf Rec 88:81-2 O 15 '25

SMOLUCHOWSKI'S theory
Kinetics of the process of coagulation of colloids in the light of Smoluchowski's theory. J. N. Mukherjee and S. K. Majumdar. Chem Soc J 125:785-94 Ap '24

SMUGGLING
Smugglers and smuggling. A. H. Verrill. 327p Duffield & co., New York '24
Smuggling costs millions. Am Ind 25:41 S '24

SNAKE river
Power resources of Snake river between Huntington, Oregon and Lewiston, Idaho. W: G. Hoyt. U S Geol S Water-Supply Pa 520-C:27-51 '24

SNAP fasteners
Large uses of steel in small ways. il Iron Tr R 76:508+ F 19 '25

SNOW
Determining the mean precipitation on a drainage basin. R. E. Horton. bibliog diags map N E Water Works Assn J 38:1-43; Discussion. 44-7 Mr '24
Is snowfall decreasing? Sci Am 130:404 Je '24
Physics of snow. Sci Am 131:329 N '24
Snow density in relation to runoff. Eng N 92:234 F 7 '24

See also Thawing

SNOW fences
Cost of portable snow fence. J. C. McLean. Eng & Contr (R & S) 63:248 F 4 '25
Snow drift prevention and control on highways. V. R. Burton. il diags Eng N 95:752-4 N 5 '25

SNOW melters
New snow melting device for switches. il Ry R 75:595-6 O 18 '24

SNOW motor
Armstead motor ploughs through deep snow. il Paper Tr J 77:45-7 N 22 '23
Fordson snow motor. il Pub Works 56:sup44 S '25
Four different tractor types developed for use in roadless areas. diags Automotive Ind 50:820-6, 868-72 Ap 10-17 '24
Winter transportation with the snowmotor. F. E. Wormser. il Eng & Min J 119:945 Je 6 '25

SNOW plows
Champion snow plows. il Pub Works 56:sup 44+ S '25
Double-ended plow will clear light snowfall or can buck deep drifts. il diags Bus Transportation 3:403-5 S '24
Edwards rotary snow plow. il Eng & Contr (Equip R) 64:732 S 30 '25; Eng N 95:695-6 O 22 '25
Improved snowplows on four-wheel-drive tractor. il Bus Transportation 3:423 S '24
Keeping roads open in winter. W: E. Voorhees. il Eng & Contr (R & S) 62:999-1001 N 5 '24
New snow plow attachments for tractors. il Munic Eng 66:44-6 Ja '24
Rotary snow plow. il Pub Works 56:sup50 S '25

SNOW removal
Blasting a Colorado snow drift. il Pub Works 56:286 Ag '25
Experience in snow removal in Humboldt county, Iowa. K. J. Smith. il Munic & Co Eng 66:247-8 My '24
Handling snow on Illinois roads. F. T. Sheets. Pub Works 56:340-1 S '25
Highway snow removal practice summarized. il Eng N 94:4-8 Ja 1 '25
Highway snow removal problems. G: E. Hamlin. Eng & Contr (R & S) 64:306-9 Ag 5 '25; Same abr. Pub Works 56:339-40 S '25
How Connecticut organizes and handles snow removal; methods, equipment and costs. il Good Roads 68:6-7 Ja '25
How tractors are helping to solve the snow removal problem. il Good Roads 68:8 Ja '25
Keeping America's principal trade-gate clear of snow. il Dun's Int R 45:55-6 My '25
Methods and cost of snow removal. F. F. Rogers. Munic Eng 66:12-16 Ja '24
Municipal liability for snow on crosswalks. J: Simpson. Pub Works 55:61-4 F '24
New Jersey snow removal work aided by Weather bureau. Eng & Contr (R & S) 63:700 Ap 1 '25
Organization, methods and equipment for snow removal. E: E. Reed. Munic Eng 66:69-71 F '24; Same. Eng & Contr (R & S) 61:531-4 Mr 5 '24; Excerpt. Eng N 92:147-8 Ja 24 '24
Railway equipment used to remove snow in Toronto. il Elec Ry J 65:144 Ja 24 '25
Report of committee on maintenance; snow removal and equipment. Can Eng 48:548 Je 2 '25
Sand as a snow-removal possibility. A. O'Brien. Eng N 93:722 O 30 '24
Shoveling snow with T.N.T. Sci Am 132: 259 Ap '25
Snow drift prevention and control on highways. V. R. Burton. il diags Eng N 95:752-4 N 5 '25
Snow handling on Albany county roads. W: R. Gordon. il Pub Works 56:341 S '25
Snow handling on Minnesota highways. W. F. Rosenwald. Pub Works 56:312-13 S '25
Snow removal and equipment. Pub Works 56: 384 O '25
Snow removal in Canadian city. J. A. Duchastel. Eng & Contr (R & S) 62:764 O 1 '24
Snow removal in Connecticut. Eng & Contr (R & S) 61:330 F 6 '24
Snow removal in Massachusetts. il Pub Works 56:100-1 Mr '25
Snow removal in Westmount. P. E. Jarman. plan Pub Works 55:336-7 N '24
Snow removal on Fall River road across Continental Divide. il Eng N 93:550-1 O 2 '24
Snow removal on Pennsylvania highways. W. A. Van Duzer. il Pub Works 56:309-12 S '25
Snow removal problem on highways of the United States. J. B. McCord. il Good Roads 68:3-5+ Ja '25
Snow removal programs encourage car use in winter. Automotive Ind 50:631 Mr 13 '24
Solving the highway snow problem. J. B. McCord. il Bus Transportation 4:427-9 S '25; Same cond., with table of comparative snow removal data. Eng & Contr (R & S) 61: 736-40 Ap 2 '24
Twenty-foot drifts in Berthoud Pass. L. D. Blauvelt. Pub Works 56:344+ S '25
Walter sno-fyter and flusher. il Eng & Contr (R & S) 64:1036 N 4 '25
Winter maintenance in Michigan. B. C. Tiney. map Pub Works 56:342-4 S '25

SNOW removal—*Continued*
Winter roads—equipment—cost data. B. E. Murray. Can Eng 49:427-8 S 29 '25; Same. Eng & Contr (R & S) 64:793-5 O 7 '25; Discussion. P. E. Jarman. Can Eng 49:542 N 10 '25

See also Motor bus lines—Snow removal; Railroads—Snow protection and removal; Snow; Street railroads—Snow protection and removal; Thawing

Cost

Cost of highway snow removal in Wisconsin. N. M. Isabelle. Eng & Contr (R & S) 61:65 Ja 2 '24; Same. Pub Works 55:90 Mr '24

SNOW scrapers. See Motor buses—Snow scrapers

SNOW surveys
Precipitation and runoff at the Continental Divide. J. E. Church, jr. and E. H. Jones. Eng N 94:190-5; Discussion. H. P. Boardman. 195 Ja 29 '25
Snow survey in Nevada forecasts light stream runoff for 1924. Eng N 92:856-7 My 15 '24

SNOWSLIDES. See Avalanches

SNYDER, William Penn, 1861-1921
W. P. Snyder memorial installed in the National McKinley birthplace memorial association, Niles, O. il Iron Tr R 76:729 Mr 12 '25; Iron Age 115:688 Mr 5 '25

SOAKING pits
Electric soaking pits. T. F. Baily. Iron Age 115:482 F 12 '25
Gasless vertical heating soaking pits. Blast F & Steel Pl 13:45 Ja '25
Open notches with gas lance. E. E. Thum. il diag Iron Tr R 77:749-52 S 24 '25
Soaking pit is heated electrically. T. F. Baily. Iron Tr R 76:562-3+ F 26 '25; Same. Blast F & Steel Pl 13:139-40+ Mr '25; Same, without table. Iron Age 115: 617-18 F 26 '25

SOAP
Aperçu de recherches faites dans la chimie colloïdale des savons; abstract. R. Zsigmondy and Thiessen. Chimie & Ind 13:807-8 My '25
Constitution of soap solutions in presence of electrolytes; potassium laurate and potassium chloride. W: C. Quick. Chem Soc J 127:1401-11 Je '25
Constitution of soap solutions: migration data for potassium oleate and potassium laurate. J. W: McBain and R: C. Bowden. diags Chem Soc J 123:2417-30 O '23
Deterioration of soap-nicotine preparations. C. C. McDonnell and E. J. Nealon. Ind & Eng Chem 16:819-21 Ag '24
Economic changes in the soap industry. Chem & Met Eng 32:111 Ja 19 '25
Equilibria underlying the soap-boiling processes; pure sodium palmitate. J. W: McBain and G. M. Langdon. diags Chem Soc J 127:852-70 Ap '25
L'étude des solutions de savon au point de vue de la chimie des colloïdes. G. W. MacBain. bibliog Chimie & Ind 11:3-7 Ja '24
Modern soap and detergent industry. G. Martin. Van Nostrand '24
Monomolecular soap films in emulsions. W: Rieman, 3d and P. A. van der Meulen. Am Chem Soc J 47:2507-14 O '25
Nature of soap in alcohol. W. A. Patrick, W: L. Hyden and E: F. Milan. J Phys Chem 29: 1004-8 Ag '25
Nicotine soaps. L. F. Hoyt. Ind & Eng Chem 16:1171-2 N '24
Notes on the colloidal study of soap. J. W. McBain. Chem Age (Lond) 11:462-3 N 8 '24
Protective action of soaps on arsenious sulphide sols. B. Papaconstantinou. J Phys Chem 28:323-5 Mr '25
Protective action of soaps on Zsigmondy's gold sols. B. Papaconstantinou. J Phys Chem 29:323-5 Mr '25
Soap. Chem Age 32:334 Ag '24
Soap as a vehicle for medicaments and disinfectants. L: W. Bosart. Chem Age 32:89-91 F '24; Abstract. Nation's Health 6:789-90 N '24
Soap free from lye. Sci Am 131:188 S '24
Soap products output increased last year. Oil Paint & Drug Rep 106:36 D 8 '24
Soaps and the theory of colloids. J. W. McBain. Chem Age (Lond) 12:309 Mr 28 '25
Some effects of age on soap solutions. R. M. Cobb. Ind & Eng Chem 17:1134-5 N '25
Some results of the study of soap. J. W. McBain. Can Chem & Met 8:235-6 O '24
Switzerland an importer of soap. Chem & Met Eng 29:1074 D 10 '23
Value of soap and water sanitation. il Nation's Health 7:567-8 Ag '25
Viscosities of some monovalent salts of higher fatty acids in organic solvents. M. Prasad. J Phys Chem 28:636-43 Je '24
What does silicate of soda do to soap? J. G. Vail. Chem & Met Eng 31:183-4 Ag 4 '24
Why soap? finds many answers. E. F. Cook. il Nations' Health 7:703-4 O '25

See also Saponification; Sodium oleate; Sodium ricinoleate; *also* Procter and Gamble company

Advertising

New advertiser thinks out loud; Poland soap works. A. E. Haase. Ptr Ink M 11:38+ O '25

Analysis

Determination of anhydrous soap in a lubricating grease. B: Joachim. Ind & Eng Chem 16:725-6 Jl '24
Free alkali in silicated soaps. A. Edeler. Ind & Eng Chem 17:196-7 F '25
Rapid method for the analysis of soap powder. F. F. Flanders and A. D. Truitt. Ind & Eng Chem 15:1232 D '23

Manufacture

See Soap manufacture

Specifications

United States government master specification for milled toilet soap. U S Bur Stand Circ 194:1-6 '25
United States government specification for white floating soap. U S Bur Stand Circ 123: 1-5 '24

Testing

Fundamental principles of detergent action revealed by the graphite test. R. M. Chapin. diags Ind & Eng Chem 17:1187-91 N '25
Method of determining the detergent action of soaps. J. W. McBain, R. S. Harborne and A. M. King. J Phys Chem 28:1-11 Ja '24
Simple soap test. C. F. Green. Textile Col 47:134 My '25
Test for comparing detergent efficiencies of soaps. R. M. Chapin. Ind & Eng Chem 17:461-5 My '25

SOAP, Liquid
When a new product requires a new sales channel. Ptr Ink 126:41-2+ Mr 13 '24

Specifications

United States government master specification for liquid soap (for laundry use). U S Bur Stand Circ 193:1-5 '25; Same. J Fr Inst 199:410-11 Mr '25

Testing

Performance tests of a liquid laundry soap used with textile materials. F. R. McGowan, F. W. Smither and C: W. Schoffstall. U S Bur Stand Tech Pa 273:1-26 '24

SOAP, Metallic
Effect of certain metallic soaps on the drying of raw linseed oil. L. L. Steele. Ind & Eng Chem 16:957-9 S '24

SOAP, Powdered

Specifications

United States government master specification for powdered soap (for laundry use). U S Bur Stand Circ 195:1-5 '25

SOAP, Textile
Caustic potash; made by electrolysis. Am Dyestuff Rep 14:552-4 Ag 24 '25
Hexalin soaps as detergents in bleaching and dyeing. Am Dyestuff Rep 13:199 Mr 24 '24

SOAP, Textile—*Continued*
Importance of benzine soap to the dry cleaning and garment dyeing industries. J. M. Matthews. Color Tr J 15:79-82 S '24
Need of a study on soaps. F. R. McGowan. Textile World 67:3429-30 My 23 '25
Soaps and alkalies in fulling. A. W. Davison. Am Dyestuff Rep 13:650+ O 6 '24
Soaps and softeners. W. W. Chase. diags Textile Col 46:712-14 N '24
Some notes on benzine soaps. R. G. Thomson. Soc Dyers & Col J 40:45-7 F '24
Textile mill soaps. F: A. Hayes. Textile World 68:1357+ S 5 '25
Textile soaps. T. H. Gray and J. H. Gill. Chemicals (Dyestuffs sec) 16:173 My 25 '25
Textile waters and soaps. F. W. Richardson. Textile Inst J 15:P629-30; 16:P108-9 D '24, Ap '25
Use of soaps in the textile industry. Am Dyestuff Rep 14:377 Je 1 '25

SOAP manufacture
Advances in soap technology. Chem & Met Eng 29:1150-1 D 24 '23
Bleaching and dyeing of soaps. Color Tr J 14: 119 Ap '24
Chemicals used in the manufacture of soap. L. W. Bosart. il Chemicals 24:7-10 Ag 3 '25
Colloid chemistry in the technology of oils and fats. N. G. Chatterji. Chem Age (Lond) 10:57-8 Ja 19 '24
Dyeing of soap and perfumery. J. R. Wilson. Textile Col 45:440-2, 501-3, 656-8, 727-30; 46:103-5 Jl-Ag, O-N '23, F '24
Innovations in German soap technology. E. L. Lederer. Chem Age 32:419-21 O '24
Investigation of discoloration in corn oil soap and of the possibility of preventing its development. E. G. R. Ardagh and others. bibliog diags Can Chem & Met 7:302-7; 8:7-11 D '23-Ja '24
Materials handling and the price of soap. M: W. Potts. il Ind Management 70:109-15 Ag '25
Opportunity for soap technologists. Chem & Met Eng 30:461; 31:433-4, 591 Mr 24, S 15, O 13 '24
Spray-drying adapted to the manufacture of detergents. Chem Age 31:501 N '23
Use of hydrogenated phenols and cresols in textile soap manufacture. Welwart. Soc Dyers & Col J 39:365-6 D '23

SOAPSTONE
Talc and soapstone in 1924. Eng & Min J 120:210 Ag 8 '25
Talc and soapstone production decreased in 1923. Eng & Min J 118:216 Ag 9 '24

SOCIAL betterment
How social betterment in Great Britain is affecting the Exchequer. Econ W n s 30: 618-19 O 31 '25

SOCIAL centers
See Community centers; Recreation centers

SOCIAL insurance. See Insurance, Social

SOCIAL laws and legislation
British labor government's social betterment schemes and the British life insurance companies. Econ W n s 28:313-14 Ag 30 '24

SOCIAL problems
Social problems and education. E. R. Groves. 458p [bibliog. p. 421-54] Longmans '25
Social problems of today. G. S: Dow and E. B. Wesley. 337p Crowell '25
See also Child labor; Community centers; Cost of living; Eugenics; Housing; Insurance, Industrial; Old age pensions; Pensions, Industrial; Public health; Unemployment; Woman—Employment

SOCIAL psychology
Conservatism, radicalism, and scientific method. A. B. Wolfe. 354p Macmillan '23
Essentials of social psychology. E. S. Bogardus. 4th ed. 320p J. R. Miller, Los Angeles '23
Psychology of human society. C: A. Ellwood. 495p Appleton '25
Social psychology. F. H: Allport. 453p Houghton '24

SOCIAL sciences
History and prospects of the social sciences. H. E. Barnes and others. 534p Knopf '25
See also Economics; Sociology

SOCIAL settlements
Saint Louis association to build settlement home. S. P. Moore. plans Nation's Health 7:670-2 O '25

SOCIAL work
Two social economics libraries. W. Withington. Special Lib 14:163-4 D '23
See also Poor

Advertising
See also Money raising campaigns

Bibliography
Publicity methods reading list. E. G. Routzahn and M. S. Routzahn. 48p Russell Sage foundation, New York '24

SOCIALISM
Dictionary of socialism. A. S. Rappoport. 271p [bibliog. p. 227-63] T. Fisher Unwin, London; H. W. Wilson co., N.Y. '24
Russia ended socialism for me. J. H. Rubin. Nation's Business 12:13-15 F '24; Discussion. 12:105 My '24
See also Government ownership; Industry and state; Syndicalism; Trade unions

SOCIALIST party (United States)
New York state socialist party ticket and platform—endorsement of Senator La Follette for President—forty-four hour week demanded—Klan denounced. Comm & Fin Chr 119:545-6 Ag 2 '24

SOCIÉTÉ française de physique
Le cinquantenaire de la Société de physique. R. Dubrisay. Chimie & Ind 11:sup 3-6 Mr '24

SOCIETIES
See Agricultural societies; Benefit societies; Engineering societies; Trade associations; Trade unions; *also* names of societies, e.g. American chemical society

SOCIETY for electrical development
Co-operation that operates to sell the idea. F. M. Cockrell. Forbes 15:619-20 F 15 '25
League council organizes. Elec W 84:1120 N 22 '24
Leagues gather at Association Island, N.Y., Sept. 2. Elec W 84:479-80 S 6 '24

SOCIETY for the promotion of engineering education
Annual meeting, 33d, Schenectady, N.Y., June 16-20. Eng N 94:1073+ Je 25 '25; Elec W 85: 1417 Je 27 '25
Annual report of the director and associate director to the Board of investigation and coordination. J Eng Educ 15:414-21 F '25
Background of the Boulder meeting. O. J. Ferguson. J Eng Educ 15:5-7 S '24
List of members. Eng Educ 14:313-427 Mr '24
Research is main topic of engineering educators. A. Marston. Eng N 93:76 Jl 10 '24
Suggestions regarding proposed constitution. W. G. Raymond, C. S. Howe and C. C. Williams. Eng Educ 14:499-505 My '24

SOCIETY of automotive engineers
Annual meeting, Detroit, Jan. 22-25. Automotive Ind 50:214-46 Ja 31 '24
Annual meeting, Detroit, Jan. 19-22. Soc Auto Eng J 16:119-40f F '25; Automotive Ind 52:173-93 Ja 29 '25
Annual production meeting, 3d, Detroit, Oct. 22-24. Automotive Ind 51:752-64 O 30 '24; Soc Auto Eng J 15:376-92+ N '24; Am Mach 61:714-a O 30 '24
National production meeting, Cleveland, Sept. 14-16. Soc Auto Eng J 17:299-313 O '25; Am Mach 63:524e-k S 24 '25; Automotive Ind 53:524-43 S 24 '25; Iron Age 116:841-3 S 24 '25; Iron Tr R 77:785-6 S 24 '25
Officers of the society; sketches and portraits. Soc Auto Eng J 14:120-6 F '24
Officers of the society; sketches and portraits. Soc Auto Eng J 16:197-204 F '25
Summer meeting, Spring Lake, N.J., June 24-27. Soc Auto Eng J 15:2-24 Jl '24; Automotive Ind 50:1361-8; 51:46-67 Je 26-Jl 3 '24; Bus Transportation 3:330-2 Jl '24

SOCIETY of automotive engineers—*Continued*
Summer meeting, White Sulphur Springs, W. Va., June 16-19. Soc Auto Eng J 17:3-29+ Jl '25; Automotive Ind 52:1120-52 Je 25 '25; Bus Transportation 4:351-4 Jl '25
Technical sessions of the aeronautic meeting, New York, Oct. 7. Soc Auto Eng J 17:419-23 N '25; Automotive Ind 53:660-4 O 15 '25
Tractor meeting, Chicago, April 29-30. Soc Auto Eng J 16:490-2 My '25; Automotive Ind 52:826-8 My 7 '25
Transportation meeting, New York, Sept. 18-19. il diags Soc Auto Eng J 15:276-99 O '24; Automotive Ind 51:552-62 S 25 '24; Bus Transportation 3:460-1 O '24; Elec Ry J 64: 561 O 4 '24

Standards committee
Personnel of 1924 Standards committee. Soc Auto Eng J 14:217-20 F '24
Personnel of 1925 technical committees. Soc Auto Eng J 16:151-6 F '25
Standards committee division reports. Soc Auto Eng J 14:37-56 Ja '24

SOCIETY of chemical industry
Annual general meeting, Liverpool, July 9, 1924. Soc Chem Ind J (Chem & Ind) 43:709-12 Jl 11 '24; Soc Chem Ind J 43:219-36 Jl 18 '24
Annual general meeting; society finance. Chem Age (Lond) 11:33-6 Jl 12 '24
Annual meeting, Leeds, July 13-18. Gas J (Lond) 171:225-8, 277-80 Jl 22-29 '25

SOCIETY of economic geologists
Joint meeting with the American institute of mining and metallurgical engineers. Eng & Min J 117:335 F 23 '24

SOCIETY of industrial engineers
Annual convention, 11th, Buffalo, April 30-May 2. Am Mach 60:716c My 8 '24; Iron Age 113:1437-8 My 15 '24; Iron Tr R 74: 1250-1 My 8 '24
Annual convention, 12th, Cleveland, May 6-8. Iron Tr R 76:1290-1 My 14 '25; Am Mach 62:828a My 21 '25

SOCIETY of naval architects and marine engineers
Annual meeting, 31st, New York, Nov. 8-9. Marine Eng 28:747 D '23
Annual meeting, 32d, New York city, Nov. 13-14. Marine Eng 29:724-40+ D '24

SOCIOLOGY
Environmental basis of society. F. Thomas. 336p [bibliog. p. 317-29] Century co. '25
Human relations; an introduction to sociology. T: N. Carver and H: B. Hall. 302p Heath '23
Origins of sociology. A. W. Small. 359p Univ. of Chicago press '24
Outlines of introductory sociology. C. M. Case. 980p Harcourt '24
Outlines of the sociology of human behavior. D. H. Kulp. 257p [bibliog. p. 249-57] Teachers college, Columbia univ., New York '25
Scientific study of human society. F. H: Giddings. 247p [bibliog. p. 241-4] Univ. of North Carolina press, Chapel Hill '24
Social development, its nature and conditions. L. T. Hobhouse. 348p Holt '24
Social origins and social continuities. A. M. Tozzer. 286p [bibliog. p. 270-9] Macmillan '25
Social theory of Georg Simmel. N: J. Spykman. 297p [bibliog. p. 277-92] Univ. of Chicago press '25
Sociology and political theory. H. E. Barnes. 260p Knopf '24

SODA
Use of alkali in scientific washing. F. H. Guernsey. Color Tr J 13:208-11 D '23
See also Sodium bicarbonate; Sodium hydroxide

SODA ash
Alkalies in 1924. Chem & Met Eng 32:123 Ja 19 '25
Ammonium chloride and soda ash production in connection with ammonia synthesis. flowsheet Chem Age 32:122-3 Mr '24
Causticizing soda ash. Chem Age 32:356 Ag '24
Chemical and material markets in 1923. Chem & Met Eng 30:114 Ja 21 '24
Fluffy soda ash; patent. Chem Age 32:471 N '24
Soda ash as a boiler compound. diags Power Pl Eng 28:968, 1068-9, 1112 S 15, O 15-N 1 '24
Soda ash as desulphurizer in foundry. Iron Age 115:473-4 F 12 '25
Soda deposits of Lake Magadi in Kenya. Soc Chem Ind J (Chem & Ind) 43:872 Ag 29 '24
South produces its own alkali; plant of the Mathieson alkali works, Saltville, Va. il Manuf Rec 87:88-9 F 19 '25
Steady prices ruled in soda ash market, 1924. Chem & Met Eng 32:138 Ja 19 '25
Three pounds of soda ash daily saves boiler tubes in New Orleans plant. P. F. Hoots. il diag Power 61:899-902 Je 9 '25; Discussion. W. H. Burton. 62:419-20 S 15 '25
Use of soda ash for preventing corrosion. M. C. Whipple. Eng & Contr (W W) 62:1065-6 N 12 '24; Same. Am Water Works Assn J 12:241-3 O '24
Use of soda ash in the beater coloring of sized papers. W. C. Holmes. Am Dyestuff Rep 13:561-4 Ag 25 '24
Water treatment on the Chicago & Alton R.R. L. O. Gunderson. il Ry R 75:571-5 O 18 '24

SODA fountains
New apparatus makes dispensing of soft drinks a profitable side line. W. T. Charles. il Dun's Int R 45:37-41 Jl '25

SODA pulp production. See Paper making—Soda process

SODIUM
Action of sodium on the acetates of *o*- and *p*-cresol. R: I: E: Hall. Chem Soc J 125:2266-8 N '24
Constancy of total photo-current from sodium with temperature change 20°C. to —190°C. R. C. Burt. Philos Mag 6th ser 49:1168-76 Je '25
Experimental determination of relative transition probabilities in the sodium atom. G: R. Harrison. Phys R 25:768-82 Je '25
Line breadths and absorption probabilities in sodium vapor. G: R. Harrison and J. C. Slater. Phys R 26:176-88 Ag '25
Low-voltage arcs in sodium and potassium vapours. F. H. Newman. diag Philos Mag 6th ser 49:1057-64 My '25
Reaction between metallic sodium and aromatic aldehydes, ketones and esters; aldehydes. F. F. Blicke. Am Chem Soc J 46: 2560-71; 47:229-30 N '24, Ja '25
Series limit absorption in sodium vapor. G: R. Harrison. il diags Phys R 24:466-77 N '24
Spectrum of sodium at low voltages. F. H. Newman. Philos Mag 6th ser 50:165-73, pl 4 Jl '25
Vapor pressure of sodium. W. H. Rodebush and T: DeVries. diag Am Chem Soc J 47: 2488-93 O '25
Why not make our metallic sodium from common salt? H. Danneel. diags Chem & Met Eng 32:244-7 F 9 '25

Analysis
Dosage gravimétrique du sodium. A. Kling and A. Lassieur. Chimie & Ind 12:1012 D '24

SODIUM alizarate
Sodium alizarate and alumina. F. S. Williamson. J Phys Chem 28:891-2 Ag '24

SODIUM alloys
Large-scale preparation of sodium amalgam in the laboratory. R. R. Read and C. Lucarini. Ind & Eng Chem 17:480 My '25

SODIUM amide
Displacement of metals from solutions of their salts by less electropositive elements; the reaction between amides of the alkali and alkaline earth metals and elements more electropositive than tin. F. W. Bergstrom. Am Chem Soc J 47:1836-41 Jl '25
Displacement of metals from solutions of their salts by less electropositive elements; the replacement of sodium and potassium by magnesium and aluminum. F. W. Bergstrom. Am Chem Soc J 45:2788-94 D '23

SODIUM anthranolsulfonate
Sodium anthranol β-sulphonate. M. Battegay and P. Brandt. Soc Dyers & Col J 40:52 F '24

SODIUM anthraquinonesulfonates
Products of the destructive distillation of sodium anthraquinone-1- and -2-sulphonates. A. G: Perkin and W: G. Sewell. Chem Soc J 123:3032-40 N '23

SODIUM arsenite
Killing weeds with poison. il Elec Ry J 65:884 Je 6 '25
Studies in photographic sensitivity. S. E. Sheppard, E. P. Wightman and A. P. H. Trivelli. il J Fr Inst 198:629-46 N '24

SODIUM azide
Action of bromine on sodium and silver azides. D. A. Spencer. Chem Soc J 127:216-24 Ja '25

SODIUM benzoate
Soda benzoate as a food preservative. M. Briscoe. Chem Age (Lond) 10:160 F 16 '24

SODIUM bicarbonate
Influence of certain chemicals on the rate of reproduction of yeast in wort; sodium bicarbonate. N. A. Clark. J Phys Chem 28: 226-8 Mr '24

SODIUM bismuthate
Determination of manganese in water by the sodium bismuthate method. W. D. Collins and M. D. Foster. Ind & Eng Chem 16:586 Je '24

SODIUM borate. See Borax; Sodium perborate

SODIUM carbonate
Absorption of hydrocyanic acid by solid sodium carbonate. F. V. Bichowsky. diag Ind & Eng Chem 17:959-60 S '25
Competitor of American soda; deposit of Lake Magadi. il Chem & Met Eng 30:180 F 4 '24
Effect of sodium carbonate concentration in the Benedict sugar method. A. J. Quick. Ind & Eng Chem 17:729-30 Jl '25
Electrolytic caustic soda and Solvay processes. P. Parrish. il diag Chem Age (Lond) 10: 666-8; 11:114-17 Je 28, Ag 2 '24
Equilibria in solutions containing mixtures of salts; the system, water and the chlorides and carbonates of sodium and potassium at 25°; the system, water and the sulfates and carbonates of sodium and potassium at 25°. W. C. Blasdale. Am Chem Soc J 45:2935-46 D '23
Mixed indicator for carbonate-bicarbonate titrations. S. G. Simpson. Ind & Eng Chem 16:709 Jl '24
System sodium carbonate—sodium sulphate—water. W: A. Caspari. Chem Soc J 125: 2381-7 N '24

See also Soda; Soda ash; Sodium bicarbonate

SODIUM caseinate
Equilibrium across a parchment membrane in the case of sodium chloride in presence of sodium caseinate. P. A. Sporing. Chem Soc J 125:2316-19 N '24

SODIUM chloride. See Salt

SODIUM chloronitrotoluenesulfonate
Sodium 6-chloro-5-nitro-*m*-toluenesulphonate; a new reagent for potassium. H. Davies and W: Davies. Chem Soc J 123:2976-82 N '23

SODIUM chromate
Production of chromates from ferro-chromium anodes. M. deK. Thompson. Am Electrochem Soc Trans v 46 (preprint 3):37-50 O '24

SODIUM compounds
Aqueous pressure of hydrated crystals; oxalic acid, sodium sulfate, sodium acetate, sodium carbonate, disodium phosphate, barium chloride. G. P. Baxter and W: C. Cooper, jr. Am Chem Soc J 46:923-33 Ap '24
Production of natural sodium compounds and borates rose in 1923. Eng & Min J 117:879 My 31 '24
Soda and sodium compounds output in 1923 gained 36.7 percent over totals for 1921. Oil Paint & Drug Rep 106:79 N 10 '24
Soda salts used in water softening. D. K. French. Ry R 73:876 D 15 '23
Sodium compounds of glucose and the hydrolysis of the acylated compound. G. Zemplén and A. Kunz. Soc Dyers & Col J 39:379-80 D '23

SODIUM cyanide
Cyanides and chemical engineering. H. G. Chickering. flow sheet diags Chem & Met Eng 31:967-70 D 22 '24
Mechanism of the fixation of nitrogen as sodium cyanide E. W. Guernsey and M. S. Sherman. Am Chem Soc J 47:1932-40 Jl '25
Nitrides as a possible route to commercial production of cyanides. F. v. Bichowsky. flow sheet Chem & Met Eng 29:1098-1101 D 17 '23
Sodium cyanide as a byproduct of coke making. M. E. Mueller. flow sheet Chem & Met Eng 30:978-80 Je 23 '24; Excerpt. Brass W 21:158 My '25

SODIUM dichromate
Chemical and material markets in 1923. Chem & Met Eng 30:113 Ja 21 '24
Large contracting movement in bichromate of soda. Chem & Met Eng 32:134-5 Ja 19 '25

SODIUM dioxide. See Sodium peroxide

SODIUM disulfate
Critical studies on the fusion of rare-metal ores; the pyrosulfate fusion of titanium ores. G: W. Sears and L. Quill. Am Chem Soc J 47:922-9 Ap '25

SODIUM disulfite
Composition and analysis of sodium bisulphite. C. F. Green. Textile Col 47:441 Jl '25
Composition and evaluation of commercial sodium bisulphite. J. B. P. Harrison and M. F. Carroll. Soc Chem Ind J 44:127-8 Mr 20 '25

SODIUM ethylaceto-acetate
Addition of sodium ethylaceto-acetate to substituted aromatic mustard oils. D: E. Worrall. Am Chem Soc J 46:2834-8 D '24

SODIUM ethylate
Condensation products of diethyl ketone. J: B. Ekeley and M. S. Carpenter. Am Chem Soc J 46:446-50 F '24

SODIUM fluoride
Solubility of sodium fluoride in hydrofluoric acid. D: B. Jehu and L. J: Hudleston. Chem Soc J 125:1451-6 Jl '24
Volumetric methods for analyzing commercial sodium fluoride. H. Flisik. Ind & Eng Chem 17:307-9 Mr '25

SODIUM fluosilicate
Sodium fluosilicate as an insecticide. S. Marcovitch. Ind & Eng Chem 16:1249 D '24

SODIUM hydrosulfite. See Sodium hyposulfite

SODIUM hydroxide
Action of caustic alkali on α-bromo-α-ethylbutyrylcarbamide. G: Newbery. Chem Soc J 127:295-307 Ja '25
Action of caustic soda on boiler steel; preliminary report of M.I.T. experiments. R. S. Williams and V. O. Homerberg. il diag Power 59:608-10 Ap 15 '24; Same. Chem & Met Eng 30:589-91 Ap 14 '24
Action of caustic soda on cotton. J. Heubner and E. Wootton. Soc Dyers & Col J 41:10-18 Ja '25
Action of strong solutions of caustic soda on flax yarn and fabrics under conditions of mercerising. P. P. Viktoroff. Soc Dyers & Col J 41:143-5 Ap '25
Activity coefficient of sodium hydroxide in aqueous solution. H. S. Harned. diag Am Chem Soc J 47:676-84 Mr '25
Activity coefficient of sodium hydroxide in sodium chloride solutions. H. S. Harned. Am Chem Soc J 47:684-9 Mr '25
Alkali as a business barometer. E. M. Allen. Chem & Met Eng 32:81 Ja 19 '25
Alkali cellulose. E. Knecht and J. H. Platt. Soc Dyers & Col J 41:53-5 F '25
Alkali-cellulose; abstract. P. Karrer and K. Nishida. Soc Dyers & Col J 40:383-4 N '24
Alkalies in 1924. Chem & Met Eng 32:123 Ja 19 '25

SODIUM hydroxide—*Continued*
Anti-flux for detinning. diag Chem & Met Eng 30:198 F 4 '24
Canadian salt company's processes for the manufacture of alkali-chlorine products. D. A. Pritchard and G. E. Gollop. flow sheet il diag Ind & Eng Chem 16:1056-62 O '24; Same. Can Chem & Met 8:211-14 S '24; Same. Soc Chem Ind J (Chem & Ind) 44:220-3, 243-6 F 27-Mr 6 '25; Abstract. Chem Age (Lond) 11:346-7 O 4 '24
Care of drug room in dyehouses and bleacheries. J. M. Matthews. Chemicals (Dyestuffs sec) 16:181-3 Je 22 '25
Caustic for mercerizing and its recovery. C: F. Goldthwait. il Am Dyestuff Rep 14:71-4 F 9 '25
Caustic soda as a mercerizing agent for linen. I. Ginsberg. Textile Col 47:629-32 O '25
Caustic supply and recovery in mercerizing. W. W. Chase. diag plan Textile World 66: 1117+ Ag 30 '24; Correction. 66:2535 N 1 '24
Chemical and material markets in 1923. Chem & Met Eng 30:112 Ja 21 '24
Continuous causticizing in soda and sulphate pulp mills. il diags plan Paper Tr J 77: 53-7 D 6 '23
Effect of sodium hydroxide upon the surface tension of a solution of sodium nonylate. W: D. Harkins and G: L. Clark. Am Chem Soc J 47:1854-6 Jl '25
Electrolytic alkali and bleach. il Chem & Met Eng 31:65-6 Jl 14 '24
Electrolytic caustic soda and Solvay processes. P. Parrish. il diag Chem Age (Lond) 10: 666-8: 11:114-17 Je 28, Ag 2 '24
Extraction of phenols from tar oils by the caustic soda process. J. J. Morgan and M. H. Meighan. bibliog Ind & Eng Chem 17:696-700 Jl '25
Free alkali in silicated soaps. A. Edeler. Ind & Eng Chem 17:196-7 F '25
Gelatinization of lignocellulose. A. W. Schorger. Ind & Eng Chem 16:141-4 F '24
Improved methods for determination of phenols in tar oils. J. J. Morgan and M. H. Meighan. bibliog diag Ind & Eng Chem 17:626-8 Je '25
Improving alkali test for cotton-wool mixes. A. F. Hedrick. Textile World 67:3725+ Je 6 '25
Moderate decline in production of caustic soda, 1924. Chem & Met Eng 32:133 Ja 19 '25
Modern practice in electrolytic chlorine-caustic production. H. J. Payne. il diag Chem & Met Eng 31:334-8 S 1 '24
Physico-chemical studies on proteins; alkali binding—a comparison of the electrometric titration of proteins and of phosphoric acid with sodium and calcium hydroxides. W. F. Hoffman and R. A. Gortner. J Phys Chem 29:769-81 Jl '25
South produces its own alkali; plant of the Mathieson alkali works, Saltville, Va. il Manuf Rec 87:88-9 F 19 '25
System sodium sulphite-sodium hydroxide-water. D. L. Hammick and J: A. Currie. Chem Soc J 127:1623-8 Jl '25
Where did the sulphuric acid and caustic soda go in 1923? Chem & Met Eng 30:105 Ja 21 '24

See also Soda

SODIUM hydroxylamine sulfonate
Sodium hydroxylamine sulfonate as a reagent for the preparation of oximes. W. L. Semon and V. R: Damerell. Am Chem Soc J 46: 1290-3 My '24

SODIUM hypochlorite
Bi-polar electrode electrolysers for the production of bleaching liquors. G. G. Hepburn. il diags plan Soc Dyers & Col J 40: 251-6 Ag '24
Chemistry of petroleum; the action of sodium hypochlorite on sulphur compounds of the types found in petroleum distillates. S. F. Birch and W. S. G. P. Norris. Chem Soc J 127:1934-44 S '25
Desulphurising of crude oil distillates by means of hypochlorite, after the method of Dunstan and Brooks. H. I. Waterman and J. H. Heimel. Inst Pet Tech J 10:812-15 N '24
Do not connect chlorine cylinder with treating system. B: T. Brooks. diag Nat Pet N 17:115+ Ap 15 '25
Electrolysers for the production of sodium hypochlorite. Engineering 119:284-6 Mr 6 '25
Hypochlorite process. A. E. Dunstan. il Inst Pet Tech J 10:201-15 Ap '24
Mather and Platt electrolyser. Engineering 117:780 Je 13 '24
Sodium hypochlorite plant. Textile Col 47: 103-4 F '25
Treating methods used in sweetening of natural gasoline. W. G. Hiatt. diags Nat Pet N 17:26-9 Ap 22 '25

SODIUM hyposulfite
Action of an aqueous solution of sodium hyposulphite (hydrosulphite) on silver chloride; the recovery of silver from silver chloride residues. J. B. Firth and J. Higson. Soc Chem Ind J 42:427-9 N 9 '23
Commercial production of sodium hydrosulphite as dry powder. L. A. Pratt. flow sheet Chem & Met Eng 31:11-12 Jl 7 '24
Decomposition of sodium hydrosulfite. R. H. McKee and N. E. Woldman. Color Tr J 15: 1-3 Jl '24
Determination of the strength of sodium hydrosulphite by the iodine method. Can Chem & Met 8:39 F '24
Estimation of hydrosulphite. Soc Chem Ind J (Chem & Ind) 42:1131 N 23 '23
Factors which affect the stability of hydrosulphite discharge pastes, with suggestions for improvement. C: S. Hollander. Am Dyestuff Rep 13:62-3; Discussion. 63-4 Ja 28 '24
Manufacture of sodium hyposulfite. L. A. Pratt. Ind & Eng Chem 16:676-7 Jl '24
New absorbent for oxygen in gas analysis. L: F. Fieser. Am Chem Soc J 46:2639-47 D '24
Practicability of preparing sodium hydrosulfite by electrolytic methods. R. H. McKee and N. E. Woldman. Color Tr J 15:98-100 O '24
Reduction of certain vat dyes by means of alkaline sodium hydrosulfite. J: H. Yoe. J Phys Chem 28:1211-17 N '24
Removal of color from fabrics. Am Dyestuff Rep 14:276-7 Ap 20 '25

See also Sodium thiosulfate

Analysis
Analysis of sodium hydrosulfite. R. H. McKee and N. E. Woldman. Color Tr J 14:180-3 Je '24

SODIUM iodide
Decomposition of ethylene bromide by potassium iodide and sodium iodide solutions. T. S. Patterson and J: Robertson. Chem Soc J 125:1526-7 Jl '24
Purification of methylethyl ketone by sodium iodide. H. L. Lochte. Ind & Eng Chem 16: 956 S '24

SODIUM metasilicate
Binary system sodium metasilicate-silica. G. W. Morey and N. L. Bowen. J Phys Chem 28:1167-79 N '24

SODIUM naphthenate
Sodium naphthenate for miscible oil insecticides. Chem Age 32:395 S '24

SODIUM nitrate
Chemical and material markets in 1923. Chem & Met Eng 30:115 Ja 21 '24
Chile enlarges production of nitrate of soda, 1924. Chem & Met Eng 32:136 Ja 19 '25
Chilean nitrate industry. B. L. Emslie. il Can Chem & Met 9:3-7 Ja '25
Chilean nitrate industry enters new era of development. Eng & Min J 117:42-3 Ja 12 '24
Famous nitrate fires of history. C: E. Munroe. il Chem & Met Eng 31:963-6 D 22 '24
Marketing sodium nitrate. C: H. MacDowell. Eng & Min J 118:173-4 Ag 2 '24

SODIUM nitrate—*Continued*
Melting-point (*solidus*) curve for mixtures of potassium nitrate and sodium nitrate. W. M: Madgin and H: V. A. Briscoe. Chem Soc J 123:2914-16 N '23
Nitrate position and results. Economist 99: 47-8 Jl 12 '24
Nitrate producing companies. Economist 101: 140-2 Jl 25 '25
Nitrogen survey. H. A. Curtis. U S Bur For & Dom Com Trade Information Bul 226:1-63 '24; Same cond. Chem & Met Eng 30:667-70, 703-6, 749-52, 788-90 Ap 28-My 19 '24; Excerpts. Chem Age 32:225-9 My '24; Oil Paint & Drug Rep 105:19+ My 12 '24; Gas Age 54:147-50 Ag 2 '24
Our nitrogen problem. H. A. Curtis. Ann Am Acad 112:173-80; Discussion. C: M. Pepper. 180-3 Mr '24
Sodium nitrate tariff proposal raises questions of definition and construction. Oil Paint & Drug Rep 106:19 Ag 18 '24
Some nitrate companies' results. Economist 98:7-8; 100:49-50 Ja 5 '24, Ja 10 '25
System sodium nitrate—sodium—sulphate—water, and the minerals darapskite and nitroglauberite. H. W. Foote. Am J Sci 5th ser 9:441-7 Je '25
World consumption and production of nitrate of soda during the year 1923-1924. Econ W n s 28:119 Jl 26 '24

See also Chilean nitrate producers' association; London nitrate company, limited

Cost

Factors that affect the cost of Chilean nitrate. I. B. Hobsbawn. Chem & Met Eng 31:339-40 S 1 '24
Nitrogen survey: the cost of Chilean nitrate. H. F. Bain and H. S. Mulliken. U S Bur For & Dom Com Trade Information Bul 170:1-69 '24; Abstracts. Chem Age 32:25-7 Ja '24; Chem & Met Eng 30:5-9 Ja 7 '24; Eng & Min J 117:45-51 Ja 12 '24; Oil Paint & Drug Rep 105:45 Ja 7 '24

SODIUM nitrite
Chemical and material markets in 1923. Chem & Met Eng 30:107-8 Ja 21 '24
Sodium nitrite duty is raised 50 percent. Oil Paint & Drug Rep 105:20 My 12 '24
Sodium nitrite report issued by tariff body. Oil Paint & Drug Rep 106:19 S 22 '24
Suit against Tariff commission as result of hearing on sodium nitrite. Chem & Met Eng 29:1111 D 17 '23

Manufacture

Manufacture of sodium nitrite by the arc process. H. K. Benson. Am Electrochem Soc Trans v 48 (preprint 9):93-7 S '25; Same. flow sheet il Chem & Met Eng 32:803-4 O '25; Same. Chemicals 24:41 O 26 '25

SODIUM nonylate
Effect of sodium hydroxide upon the surface tension of a solution of sodium nonylate. W: D. Harkins and G: L. Clark. Am Chem Soc J 47:1854-6 Jl '25

SODIUM oleate
General formulation of movement in an electrical field: migration, electrophoresis and electroösmosis of sodium oleate. M. E. Laing. diags J Phys Chem 28:673-705 Jl '24
Increased solubility of phenolic substances in water on addition of a third substance. C: R. Bailey. Chem Soc J 123:2579-90 O '23
Nature of soap in alcohol. W. A. Patrick, W: L. Hyden and E: F. Milan. J Phys Chem 29:1004-8 Ag '25
New determination of the constant *N* of Avogadro, based on its definition. P. Lecomte du Noüy. Philos Mag 6th ser 48:664-72, pl 3 O '24
Surface concentration of sodium oleate and of colloidal sulphur. J. M. Johlin. J Phys Chem 29:1129-39 S '25

SODIUM oxalate
Oxalates from formates. Chem & Met Eng 31: 551 O 6 '24

SODIUM palmitate
Equilibria underlying the soap-boiling-processes; pure sodium palmitate. J. W: McBain and G. M. Langdon. diags Chem Soc J 127:852-70 Ap '25
Modified dichromate method for the estimation of glycerol; the hydration of curd fibres of sodium palmitate. H. B. Bennett. Chem Soc J 125:1971-5 O '24

SODIUM perborate
Use of sodium perborate in bleaching. E. Cagliostro. Color Tr J 15:157-8 D '24

SODIUM perchlorate
Separation and determination of the alkali metals using perchloric acid; normal butyl alcohol and ethly acetate as mixed solvents in the separation and determination of potassium, sodium and lithium. G. F: Smith and J: F. Ross. Am Chem Soc J 47:1020-6 Ap '25

SODIUM peroxide
Explosion method for peroxide fusions. W. F. Muehlberg. Ind & Eng Chem 17:690-1 Jl '25
Present situation in peroxide bleaching. Textile Col 47:635 O '25
Sodium peroxide as a bleaching agent. Am Dyestuff Rep 14:521-2 Ag 10 '25

SODIUM phenolate
Analysis of organic rubber vulcanising accelerators. T. Callan and N. Strafford. Soc Chem Ind J 43:2 Ja 4 '24

SODIUM phosphates
Value of trisodium phosphate as an alkali cleaner. P. Fulkerson. Brass W 20:237-9 Jl '24

SODIUM phthalate
Equilibrium in the system, sodium phthalate—sodium sulfate—water. H. W. Foote and S. B. Smith. diags Am Chem Soc J 46:84-8 Ja '24

SODIUM plumbite
Chemistry of sweetening in the petroleum industry. G. L. Wendt and S. H. Diggs. Ind & Eng Chem 16:1113-15 N '24; Discussion. 17:101-2 Ja '25
Treating methods used in sweetening of natural gasoline. W. G. Hiatt. diags Nat Pet N 17:26-9 Ap 22 '25

SODIUM potassium alloys
Free electron characteristics of sodium-potassium alloys. C. V. Kent. Phys R 22:479-85 N '23

SODIUM pyrosulfate. See Sodium disulfate

SODIUM ricinoleate
Monomolecular films of sodium ricinoleate in emulsions. P. A. van der Meulen and W: Rieman. Am Chem Soc J 46:876-80 Ap '24

SODIUM silicate
Action of sodium silicate on concrete. Soc Chem Ind J (Chem & Ind) 42:1251-2 D 28 '23
Aqueous solutions of sodium silicates; preparation and electrical conductivity. R. W. Harman. J Phys Chem 29:1155-68 S '25
Les chaussées calcaires silicatées. M. Guelle. Génie Civil 86:509-12 My 23 '25
Film protection as a factor in corrosion. F. N. Speller. Am Electrochem Soc Trans v 46 (preprint 22):313-25 O '24; Same. Chem Age 32:457-9 N '24
Free alkali in silicated soaps. A. Edeler. Ind & Eng Chem 17:196-7 F '25
Manufacture and commercial uses of sodium silicate. J. G. Vail. Can Chem & Met 8:42-3 F '24
Preventing corrosion with water glass. F. N. Speller. Power 60:824 N 18 '24
Relationship between composition and boiling points of aqueous solutions of sodium silicate. J. Y. Cann and D. L. Cheek. Ind & Eng Chem 17:512-14 My '25
Le revêtement des chaussées au silicate de soude. R. C. Louis. Génie Civil 85:407 N 1 '24
Silicate of soda and concrete. Chem Age (Lond) 10:571; 11:118; 12:33 My 31, Ag 2 '24, Ja 10 '25
Silicate of soda as a concrete hardener. Concrete 25:97 S '24

SODIUM silicate—*Continued*
Silicate of soda in the paper industry. W: Stericker. Paper Tr J 77:58-60 D 6 '23; Same. Oil Paint & Drug Rep 104:20+ D 3 '23; Same. Paper 33:8-10 D 6 '23
Sodium silicate as an adhesive. R. Furness. Paper Tr J 77:46-8 N 29 '23
Sodium silicate dissolver. diag Chem & Met Eng 29:935 N 19 '23
Some new uses of silicate of soda. R. Furness. Chem Age (Lond) 12:48-9 Ja 17 '25
Various trades offer outlet for silicate of soda. Chem & Met Eng 32:139 Ja 19 '25
What does silicate of soda do to soap? J. G. Vail. Chem & Met Eng 31:183-4 Ag 4 '24
See also Sodium metasilicate

SODIUM sulfate
Action of sodium and magnesium sulfates on constituents of Portland cement. G. R. Shelton. il Ind & Eng Chem 17:589-92 Je '25
Destructive and preservative effect of neutral salts upon hide substance. A. W. Thomas and S. B. Foster. Ind & Eng Chem 17:1162-4 N '25
Disintegration of Portland cement in sulfate waters. T. Thorvaldson, R. H. Harris, and D: Wolochow. Ind & Eng Chem 17:467-70 My '25
Equilibrium in the system, sodium phthalate—sodium sulfate—water. H. W. Foote and S. B. Smith. diags Am Chem Soc J 46:84-8 Ja '24
High-grade sodium sulphate by solar evaporation. il Chem & Met Eng 32:4 Ja 5 '25
Manufacture of hydrochloric acid and salt-cake. A. C: Cumming. Rev. ed. 438p Van Nostrand '23
Mining mirabilite near Wabuska, Nev. J: Melhase. il map Eng & Min J 119:965-7 Je 13 '25
Miscibility of anhydrous sulphite and sulphate of sodium. N. B. Lewis and A. C. D: Rivett. diags Chem Soc J 125:1162-7 My '24
Possibility of pulping with a mixture of lime and of sodium sulphate. M. Brot and H. Men. Paper Tr J 81:50-2 Jl 23 '25
Producing natural sodium sulphate in Arizona. il Chem & Met Eng 30:588 Ap 14 '24; Same. Paper Tr J 78:49 Je 26 '24
Properties of ammonium nitrate; the reciprocal salt pair ammonium nitrate and sodium sulphate. E. P. Perman and W. R. Harrison. Chem Soc J 125:364-9 F '24
Refining natural salt cake. L. A. Palmer. il Chem & Met Eng 32:632-4 Jl '25
Solubility of sulphur dioxide in water and in aqueous solutions of potassium chloride and sodium sulphate. J: C. Hudson. diags Chem Soc J 127:1332-47 Je '25
System magnesium sulfate—sodium sulfate—water and a method for the separation of the salts. E. H. Archibald and W. A. Gale. diags Am Chem Soc J 46:1760-71 Ag '24
System sodium carbonate—sodium sulphate—water. W: A. Caspari. Chem Soc J 125: 2381-7 N '24
System sodium nitrate—sodium—sulphate—water, and the minerals darapskite and nitroglauberite. H. W. Foote. Am J Sci 5th ser 9:441-7 Je '25
See also Niter cake; Sodium thiosulfate

SODIUM sulfide (monosulfide)
Electric furnace process for sodium sulphide. Chem & Met Eng 32:787 O '25
Manufacture of sodium sulphide. H. Freeman. Can Chem & Met 9:151-2 Jl '25; Same. Chemicals 24:6-7 S 7 '25
Sodium sulphide and classification troubles. G. E. Stowell. Eng & Min J 117:362 Mr 1 '24

Analysis
Analysis of sodium sulfide. W. S. Calcott, F. L. English and F. B. Downing. Ind & Eng Chem 17:176-9 F '25

SODIUM sulfides
Behaviour of the sulphides of sodium in aqueous and alcoholic media. H. H. Hodgson. Soc Dyers & Col J 41:241-4 Jl '25
Reactions of sodium mono-, di-, and trisulphides with 1-chloro-2-nitro-, 1-chloro-4-nitro-, and 1:4-dichloro-2-nitro-benzene. H. H: Hodgson and J. H: Wilson. Chem Soc J 127:440-4 F '25
Studies in the organic polysulphides; the action of the disulphides of the alkali metals and of sodium tetrasulphide on some organic halogen compounds. J: S. Thomas and R: W: Riding. Chem Soc J 125:2460-8 D '24

SODIUM sulfite
Action of sodium sulphite on coumarins. B. B. Dey and K. K. Row. Chem Soc J 125: 554-64 Mr '24
Examination of the binary system sodium sulphite—water by extrapolation from the ternary system sulphite-sulphate-water. N. B. Lewis and A. C. D: Rivett. Chem Soc J 125:1156-62 My '24
Miscibility of anhydrous sulphite and sulphate of sodium. N. B. Lewis and A. C. D: Rivett. diags Chem Soc J 125:1162-7 My '24
System sodium sulphite-sodium hydroxide-water. D. L. Hammick and J: A. Currie. Chem Soc J 127:1623-8 Jl '25

SODIUM tartrate
Vapor pressures of Rochelle salt, the hydrates of sodium and potassium tartrates and their saturated solutions. H. H. Lowry and S. O. Morgan. Am Chem Soc J 46:2192-6 O '24

SODIUM thiosulfate
Permanence of sodium thiosulphate solutions. M. L. Willard. Textile Col 45:781-2 D '23
Sodium thiosulphate as a catalyst for phenol-formaldehyde condensation products; patent. Chem Age 32:100-1 F '24
Standardization of solutions used in iodimetry. S. Popoff and J. L. Whitman. diag Am Chem Soc J 47:2259-75 S '25
Standardization of thiosulfate solution by the permanganate-iodide and dichromate-iodide methods. W: C. Bray and H. E. Miller. Am Chem Soc J 46:2204-11 O '24

SODIUM trimethylstannide
Chemistry of the trimethyltin group. C: A. Kraus and W: V. Sessions. Am Chem Soc J 47:2361-8 S '25

SODIUM triphenylmethyl
Reactions of compounds of triphenylmethyl and triphenylsilicyl in liquid ammonia. C: A. Kraus and R. Rosen. Am Chem Soc J 47: 2739-48 N '25

SODIUM tungstate
Continuous process for manufacture of sodium tungstate and tungstic acid from wolframite. N. T. Gordon and A. F. Spring. bibliog il diags Ind & Eng Chem 16:555-62 Je '24

SOFTENING
Determination of softening temperatures by the fluidity method. E. C. Bingham. J Phys Chem 28:263-6 Mr '24
Electric furnace for softening point determinations. W. L. Pendergast. diags Am Cer Soc J 8:319-25 My '25

SOIL acidity
Optimum reaction ranges of crop plants. E. T. Wherry. Ind & Eng Chem 16:826-7 Ag '24
Some factors affecting the growth of crops on acid soils. S. D. Conner. Ind & Eng Chem 16:173-5 F '24
See also Soil analysis

SOIL analysis
Accurate determination of nitrates in soils; phenoldisulfonic acid method. H. J. Harper. bibliog Ind & Eng Chem 16:180-3 F '24
Adsorption of dyes by soils. J. A. Wilkinson and W. Hoff. J Phys Chem 29:808-15 Jl '25
Colloidal complications in the thiocyanate method of estimating soil acidity. F. O. Anderegg and R. P. Lutz. Ind & Eng Chem 17:1153-4 N '25
Sur l'application de la méthode d'oxydation au bichromate d'argent à la détermination du carbone dans les terres. L: J. Simon. Chimie & Ind 11:879-80 My '24
Sur une méthode de dosage de l'humus dans les terres. B. Fallot. Chimie & Ind 11:873-4 My '24

SOIL bacteriology
La méthode directe dans l'étude microbiologique du sol. S. Winogradsky. Chimie & Ind 11:215-22 F '24
Nos connaissances actuelles sur la microbiologie du sol. L. Leroux. Génie Civil 87:335-6 O 17 '25

SOIL exhaustion
National danger—soil exhaustion. M. L. Davey. Am Ind 26:5-8 Ag '25

SOIL fertility
New York Central operates soil fertility car. il Ry Age 78:1294-5 My 23 '25

SOIL moisture
Percentage of water freezable in soils. A. M. Wintermyer. il Pub Roads 5:5-8 F '25
Present status of subgrade studies. A. C. Rose. il chart diags plan Pub Roads 6:137-62 [bibliog. p. 161-2] S '25; Conclusions. Munic & Co Eng 69:210-13 O '25; Same. Pub Works 56:353-5 O '25; Same. Eng & Contr (R & S) 64:982-4 N 4 '25
Principles of soil mechanics: phenomena of cohesion of clay. C: Terzaghi. diags Eng N 95:742-6 N 5 '25
Trees and climate. H. de H. Haig. Sci Am 129:399 D '23

SOIL pipes
Actions and effects of plumbing-system pressures. diags Dom Eng 109:33+ N 22 '24
Determination of soil and waste pipe sizes. R. M. Starbuck. Dom Eng 109:26-8 N 29 '24
Morse system in Louisville. R. M. Starbuck. diags Dom Eng 110:29-30+ Mr 21 '25
Plumbing-system pressures—their actions and effects. il diags Dom Eng 109:29+ O 11; 35+ O 18 '24
Schoolmaster and his class. R. M. Starbuck. diags Dom Eng 106:88-93 Ja 5; 26-8+ Ja 19; 24-6+ F 2; 24-6+ Mr 1 '24
Some disputed plumbing questions. R. M. Starbuck. diags Dom Eng 108:29+ Ag 9 '24
Who is right? roof drainage, sizes of rain leaders, house drains etc. R. M. Starbuck. diags Dom Eng 110:24-8 F 14 '25

Manufacture

Reducing costs on soil pipe. R. E. Nelles. il Foundry 53:100-2 F 1 '25

SOIL resistance
Étude de la résistance mécanique des sols en vue des travaux agricoles. J. Vincens. diags Génie Civil 87:241-3 S 5 '25

SOILS
Base exchange in soils; discussion. Chem Age (Lond) 11:599 D 13 '24; Soc Chem Ind J (Chem & Ind) 44:113-14 Ja 30 '25
Characteristics of quicksand and other soils met in ordinary excavation. C: R. Gow. Boston Soc C E J 11:53-69 F '24; Excerpt. Eng & Contr (W W) 61:596-8 Mr 12 '24; Abstract. Pub Works 55:350-2 N '24; Discussion. Boston Soc C E J 11:69-79 F '24
Chemistry in its relation to agriculture. E. Holmes. Chem Age (Lond) 12:179, 195 F 21-28 '25
Government report on corrosive effects of soils and methods for their determination. Eng & Contr (W W) 61:1324 Je 11 '24
Die kohlensäure des ackerbodens: die grüne kohle. Reinau. charts diag Zeit Ver Deutsch Ing 69:717-22 My 23 '25
Recent investigations of soil colloids. P. L. Gile. Am Soc C E Pro 51:886-93 [bibliog. p. 892-3] My '25
Soil and civilization. M. Whitney. 278p Van Nostrand '25
Soil organic matter and growth-promoting accessory substances. N. A. Clark. Ind & Eng Chem 16:249-50 Mr '24
Some recent work on the soil. C. T. Gimingham. Soc Chem Ind J (Chem & Ind) 43:712-14 Jl 11 '24
Thermal diffusivity and conductivity of some soil materials. L. R. Ingersoll and O. A. Koepp. Phys R 24:92-3 Jl '24
Value of sulfur in soil improvement and crop production. J. G. Lipman. Ind & Eng Chem 16:250-2 Mr '24

See also Agricultural chemistry; Agriculture; Clay; Drainage; Fertilizers; Foundation soils; Humus; Irrigation; Reclamation of land; Roads—Subgrades; Sand; Soil analysis; Soil exhaustion

Testing

A.S.T.M. proposed tentative field method for determining the moisture equivalent of subgrade soils. Good Roads 68:244 O '25; Same. Eng & Contr (R & S) 64:6 Jl 1 '25
Contractor wins suit to recover losses due to engineer's misrepresentations; Holbrook, Cabot & Rollins corporation held entitled to rescind contract to build Passaic Valley sewer tunnel. Eng N 93:21-4 Jl 3 '24
Disk shear test for road soils. C. M. Strahan. Eng N 93:959 D 11 '24
Étude de la résistance mécanique des sols en vue des travaux agricoles. J. Vincens. diags Génie Civil 87:241-3 S 5 '25
Field methods used in subgrade surveys. A. C. Rose. Pub Roads 6:93-101 Jl '25
Improved tube for determination of decolorizing value of soils. D. V. Moses and J. H. Griffith. il Ind & Eng Chem 17:901 S '25
Percentage of water freezable in soils. A. M. Wintermyer. il Pub Roads 5:5-8 F '25
Practical field tests for subgrade soils. A. C. Rose. il charts diag Pub Roads 5:10-15 Ag '24; Same cond. Eng & Contr (R & S) 62: 747-52 O 1 '24
Present status of subgrade studies. A. C. Rose. il chart diags plan Pub Roads 6: 137-62 [bibliog. p. 161-2] S '25; Conclusions. Munic & Co Eng 69:210-13 O '25; Same. Pub Works 56:353-5 O '25; Same. Eng & Contr (R & S) 64:982-4 N 4 '25
Principles of soil mechanics: phenomena of cohesion of clay. C: Terzaghi. diags Eng N 95:742-6 N 5 '25
Procedure for testing subgrade soils. J. R. Boyd. diags Pub Roads 6:34-9+ Ap '25; Same. Eng & Contr (R & S) 64:313-21 Ag 5 '25
Supporting value of soil as influenced by the bearing area. A. T. Goldbeck and M. J. Bussard. Pub Roads 5:1-4+ Ja '25; Same. Eng & Contr (R & S) 63:680-5 Ap 1 '25

SOLAMINE colors
Tabular survey of the properties of the solamine colors. Textile Col 47:521 Ag '25

SOLAR eclipses. See Eclipses, Solar

SOLAR radiation
Provisional solar-constant values, August, 1920 to November, 1924. C: G. Abbott and others. 38p Smithsonian institution, Washington '25
Records of total solar radiation intensity, and their relation to daylight intensity. H. H. Kimball. Illum Eng Soc 20:477-97 My '25
Solar constant and weather prediction. J Fr Inst 198:848-50 D '24
Solar radiation during the total eclipse of January 24, 1925. H. E. Seemann. J Fr Inst 200: 629-33 N '25

See also Earth temperature

SOLAR refining company
Solar refining company has good year in 1924. Nat Pet N 17:60+ Mr 18 '25

SOLAR system
Origin of the solar system; a reply to "T.C.C." H. Jeffreys. Am J Sci 5th ser 9:395-405 My '25

See also Planetesimal hypothesis

SOLDER and soldering
Aluminum solder. Am Mach 61:838 N 27 '24; Discussion. 62:437; 63:236 Mr 12, Ag 6 '25
Aluminum solders. Brass W 20:32 Ja '24
British standard specifications for soft solder. A. Eyles. Sheet Metal Worker 16:673+ O 9 '25
Improper soldering of commutator leads causes trouble. G: W: Hanlon. Ind Eng 82: 353 Jl '24

SOLDER and soldering—*Continued*
Question on soldering fluxes. Sheet Metal Worker 15:652+ S 12 '24
Soldering aluminum. O. Spengler. Chem Age 32:366 S '24
Soldering flat seam roofing. il Sheet Metal Worker 14:901 D 21 '23
Soldering joints in electrical windings; pouring vs. soldering iron. M. Sandfield. il diags Elec J 21:534 N '24
Soldering zinc die-castings. J. P. Nikonow. diags Am Mach 61:282-3 Ag 14 '24
Solders containing cadmium; their properties, preparation and uses. N. F. Budgen. Metal Ind 23:104-6 Mr '25
Some properties of soft soldered joints. T. B. Crow. bibliog il diags Soc Chem Ind J 43: 65-8, 69-70 Mr 21-28 '24
Some scientific aspects of the process of soft soldering. T. B. Crow. il diags Brass W 21:39-43, 133-8 F, Ap '25
Zinc-cadmium alloy solders; abstracts with discussion. R. B. Deeley. Engineering 120: 299 S 4 '25; Engineer 140:245 S 4 '25

See also Brazing; Soldering apparatus

SOLDER wire

Manufacture

Manufacture and use of solder wire. H. M. Horldt and W. G. Bihler. diags Metal Ind 23:274-6 Jl '25

SOLDERING apparatus
Convenient heater for soldering irons. il Elec Ry J 65:740 My 9 '25
Device for soldering commutator leads of small motors. H: Densmore. Am Mach 61: 476 S 18 '24
Soldering machine for tin cans. il Engineering 116:650-1 N 23 '23
Thermostatic solder-pot. il Sci Am 130:112 F '24

SOLDIERS, Disabled

Rehabilitation

Enham village centre; an enterprising undertaking. il Elec R (Lond) 94:444-5 Mr 21 '24
Finding jobs for the ex-soldiers. F. T. Hines and F. U. Quillin. Am Ind 24:5-10 Ap '24
National government educates for engineering. Am Inst E E J 44:792 Jl '25
Placing ex-soldiers in industry; final rehabilitation campaign. F. T. Hines. Am Ind 25: 5-8+ Jl '25; Abstract. Monthly Labor R 21: 641-2 S '25
Plea for work for rehabilitated veterans. W. B. West. Eng N 94:1072 Je 25 '25
Rehabilitated soldiers available in the industrial centers. Published in monthly numbers of American industries
Rehabilitated war veterans given engineering training. F. T. Hines. Eng N 94:972 Je 11 '25

See also Veteransville, Minnesota

SOLDIERS' bonuses
Bonus act. Nat City Bank p 91-2 Je '24
Bonus payments. Index p 17-18 F '24
Both tax reduction and the bonus possible. A. P. Andrew. Comm & Fin 13:297-8 F 6 '24
Congress passes Soldier bonus bill over veto of President Coolidge. Comm & Fin Chr 118:2522-3 My 24 '24
Fifteen states would bear bonus burden. Am Ind 24:30 F '24
How will Congress solve its latest dilemma? R. Bean. Annalist 22:764-5+ D 10 '23
Issuance of directions by President Coolidge for payment of soldier bonus. Comm & Fin Chr 118:3037-8 Je 21 '24
Lower taxes and better times. L: E. Pierson. Annalist 22:820+ D 24 '23
President vetoes Soldier bonus bill. Comm & Fin Chr 118:2384-6 My 17 '24
Reduction of taxes and the soldiers' bonus. A. W. Mellon. Annalist 22:659-60+ N 19 '23
Secretary Mellon on cost to government of bonus proposals—A. Piatt Andrew's figures. Comm & Fin Chr 117:2715-16 D 22 '23
Secretary Mellon's letter to A. Piatt Andrew showing cost of soldier bonus. Comm & Fin Chr 117:2840 D 29 '23
Senate resolution to inquire into alleged conflicting statements relative to soldier bonus cost. Comm & Fin Chr 118:864-5 F 23 '24
Soldier bonus bill passed by House; text. Comm & Fin Chr 118:1339-44 Mr 22 '24
Soldier bonus bill passed by Senate. Comm & Fin Chr 118:1989-90 Ap 26 '24
Soldier's bonus. J. E. Johnsen, comp. Ref Shelf 2:1-122 no 7 '24
Soldiers' bonus as a life insurance scheme. A. R. Marsh. Econ W n s 27:416 Mr 22 '24
Tax reduction plans are gaining at the expense of the soldier bonus. R. Bean. Annalist 22:696+ N 26 '23
Text of Soldier bonus bill adopted by Congress over veto of President Coolidge. Comm & Fin Chr 118:2654-6 My 31 '24
To save the government millions; official army bureau asks co-operation of employers to urge all men eligible for adjusted compensation to apply for it. C: H. Winter. Am Ind 25:9-10 Ja '25

Adjusted compensation certificates

Bonus certificates as collateral. B. Davenport. Am Bankers Assn J 17:497-8 F '25

SOLE leather. See Leather

SOLEDON dyes
Soledon jade green. Am Dyestuff Rep 14: 246-7 Ap 20 '25

SOLES, Rubber
Natural plantation finish crêpe soling rubber. il India Rubber W 70:791-2 S '24
Natural plantation-finished crepe rubber sole. il India Rubber W 69:155-6 D '23
Pure plantation rubber for soles. A. O. Devitt. Rubber Age 15:139 My 25 '24

Manufacture

Practical rubber saving. J. J. Johnson. India Rubber W 72:717-18 S '25
Replacing rubber footwear machinery. R. Polleys. India Rubber W 71:5-6 O '24
Rubber heels and soles made in leather shoe plant. il India Rubber W 70:799-800 S '24

See also Shoes, Tennis

SOLID injection oil engines. See Diesel engines—Solid injection

SOLID solutions. See Solutions, Solid

SOLIDS
Chemistry of solids. C. H. Desch. Soc Chem Ind J (Chem & Ind) 44:907-13, 924-9 S 11-18 '25; Same cond. Chem Age (Lond) 13:247, sup 17-19 S 5 '25; Abstract. Engineering 120:407 O 2 '25
Complexity of the solid state; the behaviour of phosphorus pentoxide. A. Smits and A. J. Rutgers. diag Chem Soc J 125:2573-9 D '24
Complexity of the solid state; the behaviour of pure sulphur trioxide. A. Smits and P. Schoenmaker. diags Chem Soc J 125:2554-73 D '24
Internal pressure of solids. T: W: Richards. Am Chem Soc J 46:1419-36 Je '24
Rate of photochemical change in solids. E. J: Bowen and others. Chem Soc J 125:1218-21 Je '24
Reactivity of solid phases. J. A. Hedvall. J Phys Chem 28:1316-30 D '24
Structure of solids. W. L. Bragg. Electrician 94:6 Ja 2 '25

SOLODYNE circuit. See Radio circuits

SOLOMITE. See Straw blocks

SOLS. See Colloids

SOLUBILITY
Increased solubility of phenolic substances in water on addition of a third substance. C: R. Bailey. Chem Soc J 123:2579-90 O '23
Mutual solubility of liquids. J. A. V. Butler. diag Soc Chem Ind J (Chem & Ind) 44:577-9 Je 5 '25
Relative solubilities of quartz, lead smelter slag, chrome ore, and silicate filter grits in hot alkaline waters. R. E. Hall, H. A. Jackson, and G. Fitch. il Ind & Eng Chem 16:701-3 Jl '24

SOLUBILITY—*Continued*

Saturation relations in mixtures of sucrose, dextrose, and levulose. R: F. Jackson and C. G. Silsbee. U S Bur Stand Tech Pa 259: 277-304 '24

Simple deduction of the law of solubility product. J. A. V. Butler. Soc Chem Ind J (Chem & Ind) 43:634-5 Je 20 '24

Solubilities in water of rubidium and cesium chloroplatinates. E. H. Archibald and L. T. Hallett. Am Chem Soc J 47:1314-18 My '25

Solubilities of rare-earth salts. M. D. Williams, H. C. Fogg and C. James. Am Chem Soc J 47:297-301 F '25

Solubilities of sulfur dioxide and ammonia in water. T. K. Sherwood. bibliog Ind & Eng Chem 17:745-7 Jl '25

Solubilities of the phosphates of zirconium and hafnium. G. Hevesy and K. Kimura. Am Chem Soc J 47:2540-4 O '25

Solubilities of vanillin. C. E. Mange and O: Ehler. Ind & Eng Chem 16:1258-60 D '24

Solubility. J. H: Hildebrand. 206p Chemical catalog co. '24

Solubility: metallic solutions. J. H. Hildebrand, T. R. Hogness and N. W. Taylor. Am Chem Soc J 45:2828-36 D '23

Solubility of a mixture of hydrogen and nitrogen in liquid ammonia. A. T. Larson and C: A. Black. diags Ind & Eng Chem 17:715-16 Jl '25

Solubility of atmospheric gases in solutions of ammonium chloride. J. H. Coste and E. R. Andrews. J Phys Chem 28:285-6 Mr '24

Solubility of benzoic acid in benzene and in toluene. J: Chipman. Am Chem Soc J 46: 2445-8 N '24

Solubility of bi-bivalent salts in solutions containing a common ion. O. J. Walker. Chem Soc J 127:61-6 Ja '25

Solubility of ferrous hydroxide and its effect upon corrosion. W. G. Whitman, R. P. Russell and G. H. B. Davis. Am Chem Soc J 47:70-9 Ja '25

Solubility of gasoline (hexane and heptane) in water at 25° C. L. H. Milligan. diag J Phys Chem 28:494-7 My '24

Solubility of helium and hydrogen in heated silica glass and the relation of this to the permeability. G. A. Williams and J. B. Ferguson. Am Chem Soc J 46:635-9 Mr '24

Solubility of hydrogen selenide. A. J. McAmis and W. A. Felsing. diag Am Chem Soc J 47:2633-7 N '25

Solubility of Portland cement in weathering agents. H. K. Benson, J. S. Herrick and T. Matsumoto. Ind & Eng Chem 16:1063-6 O '24

Solubility of proteins. S. P. L. Sörensen. Am Chem Soc J 47:457-69 F '25

Solubility of silver bromate in solutions of other salts and the corresponding activity relations. R. H. Dalton, R. Pomeroy and L. E. Weymouth. Am Chem Soc J 46:60-4 Ja '24

Solubility of slightly soluble chlorides in concentrated chloride solutions. J. Kendall and C: H. Sloan. Am Chem Soc J 47:2306-17 S '25

Solubility of sulphur dioxide in water and in aqueous solutions of potassium chloride and sodium sulphate. J: C. Hudson. diags Chem Soc J 127:1332-47 Je '25

Solubility of the aminophenols. N. V. Sidgwick and R. K. Callow. Chem Soc J 125: 522-7 Mr '24

Solubility of the hydroxybenzaldehydes and the hydroxytolualdehydes. N. V. Sidgwick and E. N. Allott. Chem Soc J 123:2819-26 N '23

Solubility of the petroleum hydrocarbons. C. F. Mabery. diag Ind & Eng Chem 16:937 S '24; Same. Pet Age 14:14 S 15 '24

Solubility of yttrium salts. M. C. Crew, H. E. Steinert and B. S. Hopkins. J Phys Chem 29:34-8 Ja '25

Solubility relations in isomeric organic compounds; the construction of the ideal ternary solubility diagram, and its use in analysis. G. T. Kohman and D. H. Andrews. diag J Phys Chem 29:1317-24 O '25

Solubility relations of isomeric organic compounds. J: Johnston. J Phys Chem 29:882-8 Jl '25

Solubility relations of isomeric organic compounds; the determination of freezing temperatures of binary mixtures. D. H. Andrews, G. T. Kohman and J: Johnston. diags J Phys Chem 29:914-25 Ag '25

Solubility relations of isomeric organic compounds; the mutual solubility of *O, M, P* nitro-anilines and of *O, M, P* nitro-chlorobenzenes. G. T. Kohman. J Phys Chem 29:1048-56 S '25

Solubility relations of isomeric organic compounds; the mutual solubility of the three dinitrobenzenes. D. H. Andrews. J Phys Chem 29:1041-7 S '25

Studies in heterogeneous equilibria; the solubility of strong electrolytes. J. A. V. Butler. J Phys Chem 28:438-48 My '24

Studies in mutual solubility; the mutual solubility of glycerol and amino- and hydroxy-compounds. R. R. Parvatiker and B. C: McEwen. diags Chem Soc J 125:1484-92 Jl '24

Synthetic resins and some aspects of their solubility. A. A. Drummond. Chem Age (Lond) 12:176 F 21 '25

Volumetric method of measurement of the mutual solubility of liquids; the mutual solubility of the systems ethyl ether-water and iso-amyl alcohol-water. I. A. Kablukov and V. T. Malischeva. Am Chem Soc J 47: 1553-61 Je '25

See also Solution (chemistry)

SOLUTION (chemistry)

Activity coefficients of dilute aqueous solutions of hydrogen chloride, thallous chloride and lead nitrate. M. Randall and A. P. Vanselow. diags Am Chem Soc J 46: 2418-37 N '24

Activity of strong electrolytes; the application of the Debye-Hückel equation to alcoholic solutions. G: Scatchard. Am Chem Soc J 47:2098-2111 Ag '25

Activity of water in hydrochloric acid. H. J: E. Dobson and I. Masson. diag Chem Soc J 125:668-76 Mr '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:90-1 Ja 25 '24

Attempt to correlate certain theories of solution. T. W. Jones. Soc Chem Ind J (Chem & Ind) 43:4-6 Ja 4 '24

Condensed ternary system phenol—water—salicylic acid. C: R. Bailey. Chem Soc J 127:1951-65 S '25

Cryoscopic measurements with nitrobenzene; the variation of the molecular depression with water content. F: S. Brown and C: R. Bury. Chem Soc J 125:2219-26 N '24

Densities and compressibilities of several organic liquids and solutions, and the polymerization of water. T. W: Richards and H. M. Chadwell. Am Chem Soc J 47:2283-2302 S '25

Ebullioscopic measurements in mixed solvents. B. H. Carroll, G. K. Rollefson and J. H. Mathews. diag Am Chem Soc J 47: 1791-9 Jl '25

Effect of a non-volatile solute on the partial pressures of liquid mixtures at the boiling point. B. H. Carroll, G. K. Rollefson and J. H. Mathews. Am Chem Soc J 47:1785-91 Jl '25

Electrical conductance of solutions of the alkali halides in acetophenone. J. L. R. Morgan and O. M. Lammert. diag Am Chem Soc J 46:1117-32 My '24

Electrical dispersion of liquids. V: Cofman. diags J Phys Chem 29:1289-1302 O '25

Equilibria in solutions containing mixtures of salts. W. C. Blasdale. Am Chem Soc J 45: 2935-46 D '23

Experiments on the sign of the electrical layer furthest away from the surface of a solution in contact with air or a metal. R. D. Kleeman and C. R. Pitts. diag J Phys Chem 29:508-16 My '25

General theory of solvent systems. A. F. O. Germann. Am Chem Soc J 47:2461-8 O '25

SOLUTION (chemistry)—*Continued*
Graphical solution of certain ratios in temperature-concentration diagrams. C. O. Swanson. diags Am J Sci 5th ser 7:233-8 Mr '24
Improved differential method for the exact determination of specific heats of aqueous solutions; including results for various salts and organic acids. T. W. Richards and F. T. Gucker, jr. diags Am Chem Soc J 47: 1876-93 Jl '25
Influence of a third substance on the critical solution temperature of phenol and water. J: Duckett and W: H. Patterson. J Phys Chem 29:295-303 Mr '25
Inter-ionic attraction theory of ionized solutes. A. A. Noyes. Am Chem Soc J 46: 1080-1116 My '24
Inter-ionic attraction theory of ionized solutes; testing of the theory in alcoholic solvents. A. A. Noyes and W. P. Baxter. Am Chem Soc J 47:2122-9 Ag '25
Kinetic salt effect. J. N. Brönsted and C. E. Teeter, jr. J Phys Chem 28:579-87 Je '24
Measurement of the vapour pressures of aqueous salt solutions by the depression of the freezing point of nitrobenzene. N. V. Sidgwick and E. K. Ewbank. Chem Soc J 125: 2268-73 N '24
Method for the complete, mutual resolution of inactive acids and bases. A. W. Ingersoll. Am Chem Soc J 47:1168-73 Ap '25
Method of determining the presence or absence of complex salts or ions in dilute aqueous solution. W: H. Patterson and J: Duckett. Chem Soc J 127:624-8 Mr '25
Molecular condition of phenol in benzene solution. J. C. Philip and C. H. D. Clark. Chem Soc J 127:1274-7 Je '25
Molecular weight and solution. W. D. Bancroft. J Phys Chem 29:966-72 Ag '25
Photochemical reactions in solutions of the alkali halides in acetophenone. J. L. R. Morgan, O. M. Lammert and R. H. Crist. diag Am Chem Soc J 46:1170-8 My '24
Selective solvent action by the constituents of aqueous alcohol; the effect of some alcohol-soluble semi-solutes. R. Wright. Chem Soc J 123:2493-9 O '23
Selective solvent action by the constituents of aqueous alcohol; the effect of some water-soluble semi-solutes. R. Wright. Chem Soc J 125:2068-9 O '24
Solutions of salts in 100% sulfuric acid; solvolysis and double decomposition reactions. A. W. Davidson. Am Chem Soc J 47:968-81 Ap '25
Some considerations on hydration and solution. H. A. Taylor. J Phys Chem 29:995-1003 Ag '25
Some physical-chemical properties of mixtures of ethyl and iso-propyl alcohols. G: S. Parks and K. K. Kelley. J Phys Chem 29:727-32 Je '25
Some physical-chemical properties of mixtures of ethyl and n-propyl alcohols. G: S. Parks and J. R. Schwenck. diag J Phys Chem 28:720-9 Jl '24
Some remarks on the theory of solutions. A. F. Core. Philos Mag 6th ser 47:977-91 My '24
Structure of films of water on salt solutions. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:2083-9 Ag '25
Studies in the adsorption from solution from the standpoint of capillarity. W. A. Patrick, D. C. Jones and N. F. Eberman. J Phys Chem 29:1-10, 220-8 Ja-F '25
Supersaturation of gases in liquids. F. B. Kenrick, K. L. Wismer and K. S. Wyatt. diags J Phys Chem 28:1308-15 D '24
Supersaturation of gases in water and certain organic liquids. J: Metschl. diags J Phys Chem 28:417-37 My '24
Surface tensions of aqueous solutions of various organic compounds. P. R. Edwards. Chem Soc J 127:744-7 Mr '25
System sodium carbonate—sodium sulphate—water. W: A. Caspari. Chem Soc J 125:2381-7 N '24
Temperature of vapor above boiling salt solutions. K. Schreber. diags Chem & Met Eng 31:297-9 Ag 25 '24; Discussion. 32:327-9 F 23 '25
Ternary systems; silver perchlorate, aniline and water. A. E. Hill and R. Macy. diags Am Chem Soc J 46:1132-50 My '24
Ternary systems; silver perchlorate, toluene and water. A. E. Hill and F: W. Miller, jr. Am Chem Soc J 47:2702-12 N '25
Vapor-pressure lowering as a function of the degree of saturation. I: Bencowitz. J Phys Chem 29:1432-52 N '25
Vapor pressure of hydrochloric acid solutions. J. S. Dunn and E. K. Rideal. Soc Chem Ind J (Chem & Ind) 43:91 Ja 25 '24
Vapor pressure of organic solutions; an application of Dühring's rule to calculation of equilibrium diagrams. E. H. Leslie and A. R. Carr. diag Ind & Eng Chem 17:810-17 Ag '25
Viscosity of liquids containing dissolved gases. J: R. Lewis. diags Am Chem Soc J 47:626-40 Mr '25

See also Boiling points; Colloids; Crystallization; Diffusion; Electrolysis; Electrolytes; Ions; Osmosis; Precipitation (chemistry); Solubility; Solvents

SOLUTION, Heat of
Heats of solution and of decomposition of chlorine dioxide. H: Booth and E. J: Bowen. Chem Soc J 127:342-5 F '25
Relation between deviations from Raoult's law and the partial heats of solution. J. A. V. Butler. Am Chem Soc J 47:117-22 Ja '25

SOLUTIONS, Metallic
Activities of zinc, cadmium, tin, lead and bismuth in their binary liquid mixtures. N. W. Taylor. Am Chem Soc J 45:2865-90 D '23
Solubility; metallic solutions. J. H. Hildebrand, T. R. Hogness and N. W. Taylor. Am Chem Soc J 45:2828-36 D '23

See also Solutions, Solid

SOLUTIONS, Solid
Deduction of the type of a two-component system by means of the addition of a third component. F. A. Freeth. diags J Phys Chem 29:497-507 My '25
Development and formation of crystals. T. V. Barker. diags Soc Chem Ind J 44:21-3 Ja 16 '25
Electrical conductivity of metallic solid solutions. E. J. Cuy. Philos Mag 6th ser 49: 753-60 Ap '25
Examination of the binary system sodium sulphite-water by extrapolation from the ternary system sulphite-sulphate-water. N. B. Lewis and A. C. D: Rivett. Chem Soc J 125:1156-62 My '24
Inner structure of alloys. W. Rosenhain. Chem Age (Lond) 12:sup19 Mr 7 '25
Metallography for engineers. W. Rosenhain. il Engineer 139:sup40-2, sup 50-3 Mr 27-Ap 24 '25
Miscibility of anhydrous sulphite and sulphate of sodium. N. B. Lewis and A. C. D: Rivett. diags Chem Soc J 125:1162-7 My '24
Modern concept of solid solutions. Z. Jeffries and R. S. Archer. Chem & Met Eng 29:923-6, 966-9 N 19-26 '23
Partition of silver between lead and zinc. W. A. Naish. il diag Brass W 21:309-13 S '25
Solid solutions. G. Bruni. Chem R 1:345-75 Ja '25
Solid solutions of the alkali and ammonium halides. R. J. Havighurst, E. Mack, jr. and F. C. Blake. Am Chem Soc J 47:29-43 Ja '25
Volumes occupied by the solute atoms in certain metallic solid solutions and their consequent hardening effects. A. L. Norbury. Engineering 116:627 N 16 '23
X-ray analysis of copper-zinc, silver-zinc, and gold-zinc alloys. A. Westgren and G. Phragmén. Philos Mag 6th ser 50:311-41, pl 6-11 Jl '25

SOLUTIONS, Standard
Standardization of solutions used in iodimetry. S. Popoff and J. L. Whitman. diag Am Chem Soc J 47:2259-75 S '25

SOLVATION
Electrode potentials and the free energy of solvation. J. Heyrovský. J Phys Chem 29: 406-9 Ap '25

SOLVAY process. See Sodium carbonate

SOLVENTS
Charcoal, the chemical truant officer; a new process for catching volatile solvents and putting them back to work. I. Ginsberg. diags Sci Am 131:328 N '24
Dissolution of substances in mixed liquids with special reference to colloids. E. W. J: Mardles. Chem Soc J 125:2244-59 N '24
Influence of several solvents on the Hanus iodine values of cottonseed and coconut oils. H. J. Bankston, jr., and F. C. Vilbrandt. Ind & Eng Chem 16:707-8 Jl '24
Progress in terms of volatile solvents. B. R. Tunison. Chem & Met Eng 32:93-4 Ja 19 '25
Safe handling of solvents. A. G. Smith. Chem Age 32:466-8 N '24
Separation and determination of the alkali metals, using perchloric acid; the solubilities of the perchlorates of the alkali metals in mixed organic solvents. G. F: Smith. Am Chem Soc J 47:762-9 Mr '25
Soap and solvent mixtures in dyeing cotton. O. R. Flynn. Textile World 66:477+ Jl 26 '24
Solvent extraction of cotton and linen as an adjunct to kier boiling and bleaching of these fabrics W: Kirk. Textile Col 47:427-30 Jl '25
Solvents and automobile lacquers. D. B. Keyes. il Ind & Eng Chem 17:558-67 Je '25; Excerpts. Oil Paint & Drug Rep 107:22 Je 1 '25
Studies on the Walden inversion; the influence of the solvent on the sign of the product in the conversion of β-bromo-β-phenylpropionic acids into β-hydroxy-β-phenylpropionamides. G: Senter and A. M. Ward. Chem Soc J 127: 1847-51 Ag '25
Studies on the Walden inversion; the influence of the solvent on the sign of the product in the conversion of β-hydroxy-β-phenylpropionic acids into β-bromo-β-phenylpropionic acids. G: Senter and A. M. Ward. Chem Soc J 125:2137-44 O '24
Suitability of various solvents for extracting vanilla beans. J. B. Wilson and J. W. Sale. Ind & Eng Chem 16:301-3; 17:506-7 Mr '24, My '25
Toxicity of industrial solvents. E. Kohn-Abrest. Chem Age 32:199-201 Ap '24
Two-type lacquer solvents. D. B. Keyes. Ind & Eng Chem 17:1120-2 N '25
Use of solvents in synthetic organic chemistry. D. W. MacArdle. 217p [bibliog. p. 169-93] Van Nostrand '25
Vanadium oxytrichloride as a solvent. F. E. Brown and J. E. Snyder. Am Chem Soc J 47:2671-5 N '25
Velocity of reaction in mixed solvents; the influence of the base on the velocity of saponification of esters in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 125: 2590-5 D '24
Velocity of reaction in mixed solvents; the velocity of formation of certain quaternary ammonium salts. H. McCombie, H. M. Roberts and H. A. Scarborough. Chem Soc J 127:753-9 Mr '25
Velocity of reaction in mixed solvents; the velocity of saponification of certain methyl esters by potassium hydroxide in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 123:2688-98 O '23

See also Acetone; Calcium thiocyanate; Ethylene glycol; Solution (chemistry); Sulfite liquor

SONIC waves
Wave-power transmission. E. A. Barclay-Smith. Philos Mag 6th ser 48:97-109 Jl '24

SOOT

See Boiler cleaning

SOOT blowers
Getting the most out of soot blowers. K. Rankin. Power 59:1034 Je 24 '24; Same. Power Pl Eng 28:1099-1100 N 1 '24
How to figure the cost of a soot blower. W. F. Schaphorst. Eng & Min J 116:899 N 24 '23
Quinn combustion chamber cover and soot blower. il Power 61:117 Ja 20 '25
Sliding valve is feature of new soot cleaner. il diag Power Pl Eng 28:575-6 My 15 '24
Soot blower kinks. W. F. Schaphorst. Textile World 68:85 Jl 4 '25
Soot blower protection. il Blast F & Steel Pl 13:416 O '25
Soot blower valve opens before element moves. il Power Pl Eng 27:1212 D 1 '23
Soot blowers and boiler efficiency. C: L. Hubbard. diags Textile World 68:2045+ O 3 '25
Soot cleaner costs. W. F. Schaphorst. Textile World 68:2794+ N 7 '25

Testing

Tests of mechanical soot blowers. R. June. Power 60:326-8 Ag 26 '24

SOPHRONANTHE
Gratiola L. and Sophronanthe Benth; a morphological study. T. Holm. diags Am J Sci 5th ser 7:132-40 F '24

SORGHUM sirup
Chemical engineering at its best; the development of a sorghum sirup industry. J. J. Willaman. flow sheet il diag Chem & Met Eng 31:844-7 D 1 '24
Starch in sorghum sirup. J. J. Willaman and F. R. Davison. Ind & Eng Chem 16:609-10 Je '24

SORORITY houses
Alpha Phi sorority house, Ann Arbor, Mich.; views and plans. Am Arch 128:73-6 Jl 15 '25

SOUND
Accoustical problems. M. S. Tucker. Engineering 117:810-11 Je 20 '24
Delemer and the Lamb theories of the struck string. W. H. George. Philos Mag 6th ser 48:48-55 Jl '24
Dependence of the loudness of a complex sound upon the energy in the various frequency regions of the sound. H. Fletcher and J. C. Steinberg. Phys R 24:306-17 S '24
Experiments on modes of resonant vibrations of telephone receiver diaphragms. J. T. MacGregor-Morris and E. Mallett. il diags Inst E E J 61:1134-8 O '23
Forces at the ends of a vibrating string. W. H. George. Philos Mag 6th ser 49:97-106 Ja '25
Fragen der schalltechnik. H. Reiher. Zeit Ver Deutsch Ing 69:475-6 Ap 11 '25
Helmholtz theories of the struck string. W. H. George. Philos Mag 6th ser 47:591-602, pl 3; 48:34-43, pl 1-3 Mr, Jl '24
Measurement of acoustic impedance with the aid of the telephone receiver. A. E. Kennelly. diags J Fr Inst 200:467-88 [bibliog. p. 487-8] O '25
Partial tones of the struck string. W: H. George. Philos Mag 6th ser 50:491-9, pl 13-16 Ag '25
Relation between the loudness of a sound and its physical stimulus. J. C. Steinberg. Phys R 26:507-23 O '25
Reverberation equations for two adjacent rooms connected by an incompletely soundproof partition. A. H. Davis. Philos Mag 6th ser 50:75-80 Jl '25
Some acoustic experiments with telephone receivers. E. Mallett and G. F. Dutton. diags Inst E E J 63:502-16 My '25; Discussion. 63: 715-17 Jl '25
Sound in its relation to radio. J: P. Minton. il diags Wireless Age 11:33-5+ Jl; 38-41+ Ag; 38-40 S; 12:40-1+ N '24; 39-41+ Ja '25
Theory and interpretation of experiments on the transmission of sound through partition walls. E. Buckingham. U S Bur Stand Sci Pa 506:193-219 '25

See also Acoustics, Architectural; Hearing; Musical pitch; Noise: Photography of sound; Sound waves; Soundproofing; Speech

SOUND—*Continued*

Apparatus

Automobile-noise measurement. H. C. Snook. il diags Soc Auto Eng J 17:115-24 [bibliog. p. 124] Jl '25; Discussion. 17:617-19 D '25

Determination of the frequencies of the resonant tones of some compound resonators used in acoustical instruments. E. T. Paris. diags Philos Mag 6th ser 48:769-99 N '24

Echo sounding. F. E. Smith. diag Engineer 138:535-6 N 7 '24; Abstract. Génie Civil 86: 389-90 Ap 18 '25

Measuring ocean depths by acoustical methods. H. C. Hayes. diags J Fr Inst 197: 323-54 Mr '24

Nature and reproduction of speech sounds (vowels). R. Paget. diags Inst E E J 62: 963-6 N '24; Abstract. Electrician 92:455 Ap 11 '24

Objektive klangaufzeichnung. F. Trendelenburg. diags Elektrotech Zeit 46:915-18 Je 18 '25

Physikalische grundlagen des sendens oder des empfangs von schallwellen mit besonderer berücksichtigung elektrisch betriebener schallsender grosser leistung. W. M. Hahneman. il diags Elektrotech Zeit 46: 408-13 Mr 19 '25

Sensibility of circular diaphragms for the reception of sounds in water; abstract with discussion. J. H. Powell. Engineering 119: 131 Ja 30 '25

Sound reception as applied to air defence. W. S. Tucker. il diags Roy Aeronautical Soc J 28:504-21; Discussion. 521-5 Ag '24

Über das stereoakustische hören. E. Meyer. Elektrotech Zeit 46:805-7 My 28 '25

See also Amplifiers; Deafness, Instruments for; Horns (loud speakers); Microphones

SOUND perception. See Hearing

SOUND transmission. See Geophone; Telephone

SOUND waves

Accurate determinations of the speed of sound in sea water. E. A. Eckhardt. Phys R 24:452-5 O '24

Acoustic wave filters; an extension of the theory. G. W. Stewart. Phys R 25:90-8 Ja '25

Acoustic wave filters: attenuation and phase factors. G. W. Stewart. diag Phys R 23: 520-4 Ap '24

Air-waves of finite amplitude. W. B. Morton. diags Philos Mag 6th ser 48:866-83 N '24

Critical frequency of pulsation of tones. F. Allen. Philos Mag 6th ser 47:941-4 My '24

Critical frequency of pulsation of tones. M. Weinberg and F. Allen. diag Philos Mag 6th ser 47:50-62 Ja '24

Der frequenzbereich von sprache und musik. K. W. Wagner. diags Elektrotech Zeit 45: 451-6 My 8 '24

Human ear and radio reception. J: P. Minton. il diags Wireless Age 11:33-5+ Jl '24

Les ondes ultra-sonores et leurs applications. P. Langevin. Génie Civil 84:509-10 My 24 '24

Non-radial harmonic vibrations within a conical horn. V. A. Hoersch. Phys R 25:218-24 F '25

Predicted transmission curves of acoustic wave filters. H. B. Peacock. diags Phys R 23:525-7 Ap '24

Theory of the optimum angle in a receiving conical horn. V. A. Hoersch. Phys R 25: 225-9; Discussion. G. W. Stewart. 230-1 F '25

Variable single band acoustic wave filter. G. W. Stewart. diags Phys R 22:502-5 N '23

See also Photography of sound; Resonance

SOUNDING

Continuous depth indicator for ships. il Sci Am 131:243 O '24

Echo sounding. F. E. Smith. diag Engineer 138:535-6 N 7 '24; Abstract. Génie Civil 86: 389-90 Ap 18 '25

How the depths of the sea are probed. il Sci Am 133:52 Jl '25

Measuring ocean depths by acoustical methods. H. C. Hayes. diags J Fr Inst 197:323-54 Mr '24

New depth finder; the fathometer. il chart Marine R 54:387-90 O '24; Marine Eng 29:588-9; 30:546 O '24, O '25

New instruments and apparatus for surveys; sounding tubes. il diags Eng & Contr (W W) 61:1089 My 14 '24

New machine traces record of sea depths. il diags Marine R 54:431-3 N '24

New sounding tube devised for hydrographic surveying. G. T. Rude. il Eng N 92:806-7 My 8 '24

Le procédé Behm, de sondage de la mer par l'écho. diags Génie Civil 86:217-18 F 28 '25

Les procédés modernes de sondage à la mer; l'emploi des ondes ultra-sonores; appareils Langevin et appareil Marti. F. Collin. diags Génie Civil 86:38-42, 64-6 Ja 10-17 '25

SOUNDPROOFING

Progress in noiseless substation design. L. J. Turley. il diags map plans Elec Ry J 63: 645-51 Ap 26 '24

Sound insulating properties of partition walls (chiefly lath and plaster). E. A. Eckhardt and V. L. Chrisler. il diag Am Arch 128:405-11 N 5 '25

Soundproof features of substation design prove effective. H. E. Cox. Elec Ry J 66: 236 Ag 15 '25

SOUTH

Railroad officials and others tell of wide-sweeping southern advance. Manuf Rec 88: 85-8 S 3; 74-7 S 17 '25

South and its relation to national life. R: H. Edmonds. Manuf Rec 87:67-9 My 28 '25

South's development. Manuf Rec 86:99-489 pt 2 D 11 '24

See also Automobile industry and trade—Southern states; Electric plants (central stations)—Southern states; Motor bus lines—Southern states; Poultry industry—Southern states; Railroads—Southern states; Roads—Southern states; South Carolina—Industries and resources; Street railroads—Southern states; Waterways—Southern states

Architecture

See Architecture—Southern states

Economic conditions

Economic survey of the South. H: M. Payne. Min Cong J 10:119-20 Mr '24

Industry and citizenship. H: M. Payne. Manuf Rec 85:117-19 My 1 '24

Passing of king cotton, tyrant. T. H. Price. il Burroughs Clearing House 8:24-6+ Ja '24

The potential South. Blast F & Steel Pl 11:619 D '23

South's development: the facts of the present. Manuf Rec 86:106-8 pt 2 D 11 '24

South's wealth nearly quadrupled since 1900. H. L. Clark. Manuf Rec 85:71-3 Ap 24 '24

Industries and resources

Forecast of the future of the South by national business leaders. Manuf Rec 86:340-8 pt 2 D 11 '24

In many industries the South is far ahead of United States in 1900, and in some is ahead of 1910. H. L. Clark. Manuf Rec 85:75-9 F 14 '24

Industrial development in South essential to farm prosperity. J. A. Dickey. Manuf Rec 88:81-2 Ag 20 '25

Industrial transformation of the South. R: H. Edmonds. il Forbes 15:451-2 Ja 15 '25

Industrialization in the Southern states. Comm M 7:3-12 My '25; Same. Econ W n s 29:726-30 My 23 '25

Industry is giving us a new South. A. Brown. il Nation's Business 12:34-6 F '24

South—a new industrial frontier. J: A. Piquet. il map Ind Management 69:11-18 Ja '25

South-wide industrial activity. B. C. Edgar. Manuf Rec 88:89-90 S 3 '25

Value of southern manufactures $9,460,000,000 in 1923—an increase of 37.6 per cent since 1921. Manuf Rec 87:63 My 21 '25

SOUTH—Industries and resources—*Continued*
Yankee thrift and southern progress. R: W. Edmonds. Manuf Rec 87:87-9 F 5; 75-7 F 12; 77-8 F 19; 75-6 F 26; 93-4 Mr 5; 73-5 Mr 12 '25

See also Automobile industry and trade—Southern states; Dairying—Southern states; Forests and forestry—Southern states; Mines and mineral resources—Southern states; Poultry industry—Southern states; South Carolina—Industries and resources

Sanitary affairs

Sanitary problem of the South. S: R. Benedict. J Ind Hygiene 6:181-6; Discussion. 216-18 S '24

Social conditions

Life in the South takes on new life. B. C. Forbes. Forbes 15:459-60+ Ja 15 '25

SOUTH AFRICA
Journey to South Africa. T. A. Rickard. il Eng & Min J 119:916-18; 120:57-9, 334-8, 613-19, 849-55 Je 6, Jl 11, Ag 29, O 17, N 28 '25 (to be cont)

See also Automobile industry and trade—South Africa; Banks and banking—South Africa; Commercial law—South Africa; Diamond mines and mining—South Africa; Electric industries—South Africa; Electric plants (central stations)—South Africa; Electricity supply—South Africa; Finance—South Africa; Gold mines and mining—South Africa; Hydroelectric plants—South Africa; Insurance, Fire—South Africa; Oil shales—South Africa; Railroads—South Africa; Steel industry and trade—South Africa

Commerce

Agricultural implements and farm equipment in South Africa. P. J. Stevenson. U S Bur For & Dom Com 225:1-86 '24
British chemical export position. Chem Age (Lond) 13:318-19 S 26 '25
South Africa as a customer and what she is buying from U.S.A. Sales Management 6: 1188-9 pt 2 Je '24
South Africa as an expanding market. Economist 99:339 Ag 30 '24
South African trade gains. J. J. Anderson. World's Markets 15:17-18 Mr '24

Economic conditions

Industrial prospects in the Union of South Africa. 180p South Africa Dept. of mines and industries, Pretoria '23
Union of South Africa; Rand dividends; improved railway services. Economist 98:145-6 Ja 26 '24

See also Labor and laboring classes—South Africa; Money—South Africa

Industries and resources

Industry on the African Rand. G: W. Carson. il Foundry 52:1-5 Ja 1 '24
South Africa at the British Empire exhibition. il diags plan Engineering 118:172-4, 204-6 Ag 1-8 '24

Social conditions

Economic conditions in South Africa. Elec R (Lond) 95:874 D 5 '24

SOUTH AFRICAN chemical institute
South African chemical institute. J. Gray. Chem Age 32:224 My '24

SOUTH AMERICA

See also Insurance law—South America; Latin America

Commerce

Favorable trade outlook for South American countries in 1925. N. C. Stenning. Bankers M 110:297-300 F '25
Opening markets in Peru and Chile. E. R. Murphey. il System 46:281-4+ S '24
Opening new export markets. W. F. Wyman. System 46:167-8+ Ag '24
Trade conditions in South America. Elec R (Lond) 94:234 F 8 '24

See also Shipping—South America

Economic conditions

River Plate region. 54p American bankers assn., New York '24
South America's credit. Moody's Inv Serv 16: 433-6 N 28 '24

See also Finance—South America

Foreign relations

United States

Secretary Hughes discusses our relations with South American states—favors their adoption of Monroe Doctrine. Comm & Fin Chr 120:786-7 F 14 '25

Industries and resources

See also Electric industries—South America; Ice industry—South America; Mining industry and finance—South America; Petroleum industry and trade—South America; Rubber industry and trade—South America; Textile industry—South America

SOUTH AMERICAN bonds. See Bonds, Government—South America

SOUTH BEND, Indiana

Water supply

South Bend's new pumping station. il diags Power Pl Eng 29:270-5 Mr 1 '25

SOUTH CAROLINA

See also Banks and banking—South Carolina; Roads—South Carolina

Industries and resources

Census of South Carolina manufactures. Manuf Rec 88:90 Jl 2 '25
Fifty years of progress in South Carolina. T: G. McLeod. Manuf Rec 86:408-9; Statistics. 412 pt 2 D 11 '24
Piedmont section of the Carolinas. R. G. Macy. il map Management & Adm 7:517-22, 663-8; 8:47-52, 167-71, 253-7, 403-8 My-O '24
South Carolina's industrial growth and exports. R. S. MacElwee. Manuf Rec 86:99 N 6 '24

See also Mines and mineral resources—South Carolina

SOUTH DAKOTA

See Gasoline industry—South Dakota; Geology—South Dakota; Mines and mineral resources—South Dakota

SOUTH KENSINGTON—Science museum. See London, England—Science museum

SOUTH PASADENA, California

Sewerage

Tri-cities' activated-sludge plant at Alhambra, Calif. Eng N 95:714-16 O 29 '25

Water supply

Water-borne disease epidemic in South Pasadena. diags Eng N 92:1018-19 Je 12 '24

SOUTHAMPTON, England

Harbor

Dock extensions at Southampton. diag plan Engineer 138:458-60 O 24 '24; Same cond. Eng & Contr (Ry) 63:559-62 Mr 18 '25
Dock extensions planned at Southampton. Eng N 93:742 N 6 '24

SOUTHAMPTON, New York
War memorial at Southhampton. diags Arch Forum 43:11-12, pl 5-6 Jl '25

SOUTHERN California Edison company
Alhambra plant of the Southern California Edison company uses testing laboratory. W. R. Frampton. il plan Elec W 86:304-8 Ag 15 '25
Annual report for the year 1923. Comm & Fin Chr 118:1797-1801 Ap 12 '24
New million-dollar shops of the Southern California Edison company. H. W. Tice. il J Elec 54:275-9 Ap 15 '25
Progress. map Elec W 85:493 F 28 '25

SOUTHERN California Edison company—*Cont.*
Substation design to meet space limits. J. C. Gaylord. il diags plans Elec W 84:989-92 N 8 '24
Transmission at 220kv. on the Southern California Edison system; a symposium. H. Michener and others. il diags Am Inst E E J 43:901-8, 1025-30 O-N '24; Discussion. 44: 510-13 My '25
Transmission system of the Southern California Edison company. H. A. Barre. il map Elec J 22:257-60 Je '25
Utility storeroom and shops. W. R. Frampton, G. E. Decker and W. J. McCullough. il plan Elec W 85:1021-5 My 16 '25

SOUTHERN cotton exchange, inc.
Fraud order issued by Postmaster general New against Southern cotton exchange, inc. Comm & Fin Chr 120:1549 Mr 28 '25

SOUTHERN exposition, New York
Diversification keynote of Southern exposition. Textile World 67:3277-8+ My 16 '25
Editorial comments on the exposition, Manuf Rec 87:91-7 Je 4 '25
First week of the Southern exposition. R: W. Edmonds. Manuf Rec 87:67-73 My 21 '25
What exhibitors think of the Southern exposition. R: W. Edmonds. Manuf Rec 87: 61-7 My 28; 89-90 Je 4 '25

SOUTHERN fertilizer association
New national fertilizer association is formed by merger of old organizations. Oil Paint & Drug Rep 107:21+ Je 15 '25

SOUTHERN gas association
Annual meeting, 16th, Augusta, Ga., April 22-24. Gas Age 53:607-8+ My 3 '24
Annual meeting, 17th, Wilmington, N.C., June 9-11. Gas Age 55:869-70 Je 20 '25

SOUTHERN Pacific of Mexico railroad
Southern Pacific extends its Mexican line. maps Ry Age 76:279-80 Ja 26 '24

SOUTHERN Pacific railroad
Annual report, 40th, 1923. Ry Age 76:1232-6 My 17 '24; Same. Comm & Fin Chr 118: 2324-9 My 10 '24
Annual report, 41st, of the Southern Pacific company and proprietary companies, year ended December 31, 1924. Ry Age 78:1178-92 My 9 '25; Same. Comm & Fin Chr 120:2415-19 My 9 '25
Career of Julius Kruttschnitt. map Ry Age 78:1459-62 Je 13 '25
Control of E.P. & S.W. by S.P. authorized. Ry Age 77:611-12 O 4 '24
Group-insurance plan of the Southern Pacific co. Monthly Labor R 18:157 Ja '24
Hearing on Southern Pacific-E.P. & S. W. merger. Ry Age 77:457-8 S 13 '24
I.C.C. approves merger of Western railroads. Eng N 93:607 O 9 '24
Julius Kruttschnitt to retire. Ry Age 78: 945-6 Ap 11 '25
Natural railroad consolidations. C: F. Speare. Am Bankers Assn J 17:331 N '24
New lines in Oregon recommended to I.C.C.; examiner suggests that Southern Pacific lines be transferred to Union Pacific operations. Ry Age 77:749-51 O 25 '24
Railroads not fighting for new territory in Oregon. map Eng N 94:1036 Je 18 '25
$612,955 saved by waste reclamation; Southern Pacific shops. A. S. Kelligon. il Management & Adm 9:457-60 My '25
Southern Pacific plans for the Natron cutoff. Ry R 74:962-3 My 31 '24
Western roads perfect trackage agreement. map Ry Age 76:792-3 Mr 22 '24

Library
Southern Pacific library. Special Lib 16:58 F '25

SOUTHERN pine association
How trade bodies can serve producer and consumer as shown by the Southern pine association. A. F. Israel. Manuf Rec 86: 104-5 Ag 7 '24

SOUTHERN railway
Annual report, 30th, 1923. Ry Age 77:87-8 Jl 12 '24; Same. Comm & Fin Chr 119:209-10 Jl 12 '24
Annual report, 31st, 1924. Ry Age 78:1497-9 Je 13 '25; Same. Comm & Fin Chr 120:3079-81 Je 13 '25
Financial structure of the Southern railway. G: C. Cox. Annalist 25:94 Ja 12 '25
Improvement program of the Southern railway. Ry R 74:804-5 My 3 '24
Railroad traffic and the business cycle. H. B. Vanderblue. Ry Age 76:987-90 Ap 19 '24
Southern tentative valuation. Ry Age 79:163-4 Jl 18 '25

SOUTHERN supply and machinery dealers' association
Annual meeting. Iron Age 115:1421-2 My 14 '25
Convention, Cleveland, May 19-21. Iron Age 113:1570-2+ My 29 '24; Iron Tr R 74:1438-9 My 29 '24

SOUTHERN textile association
Fall meeting, Greenville. Textile World 66: 2315-16+ O 25 '24
Semi-annual convention, Columbus, Ga., Oct. 16-17. Textile World 68:2471-6 O 24 '25
Summer session, Blowing Rock, N. C., June 13-14. Textile World 65:4067-8+ Je 21 '24
Summer meeting, 17th, Asheville, N.C., June 19-20. Textile World 67:4131-3+ Je 27 '25

SOUTHERN utilities company
Southern utilities co. first 6s, 1933. Moody's Inv Serv 16:367 O 2 '24

SOUTHERN wholesale dry goods association
Annual convention, 13th, Charlotte, N.C., May 6-10. Textile World 65:3149-50 My 10 '24
Jobbers complain of manufacturers' competition at Cincinnati convention. Textile World 67:3278-9 My 16 '25

SOUTHWEST water works association
Annual meeting, Tulsa, Okla., Oct. 6-9. Eng N 93:642-3 O 16 '24; Pub Works 55:sup41 O '24

SOUTHWESTERN Bell telephone company, St Louis
Southwestern Bell telephone company's building, St Louis. A. N. Rebori. il Arch Rec 57: 574-6 Je '25

SOUTHWESTERN public service association
Annual convention, New Orleans, La., April 22-25. Elec Ry J 63:696-7 My 3 '24
Annual convention, 30th, Houston, Texas, May 5-8. Elec Ry J 65:776-82 My 16 '25; Elec W 85:1044 My 16 '25

SOVIETS
See Socialism

SOY bean oil
Chemical and material markets in 1923. Chem & Met Eng 30:113 Ja 21 '24
Composition of soya bean oil. E. S. Wallis and G. H. Burrows. Am Chem Soc J 46: 1949-53 Ag '24
Nature of the oil of soy bean miso. R. Kodama. Ind & Eng Chem 16:523 My '24

SOY beans
Soya bean standards are proposed by U. S. Bureau. Oil Paint & Drug Rep 106:20 O 27 '24

SPACE
Possibility of other kinds of space. N: P. Rashevsky. il diags Sci Am 131:305-7 N '24
Projective geometry of Galileian space-time. L. Silberstein. Philos Mag 6th ser 50:681-96 O '25
Size of the universe. N. P. Rashevsky. il Sci Am 132:30-1 Ja '25
Space. N. Campbell. Philos Mag 6th ser 46: 1002-12 N '23
Space and time. C. Benedicks. 98p Dutton '24
See also Ether (of space); Relativity (physics)

SPACE charges. See Rent—Accounting

SPAIN

See also Architecture—Spain; Canals—Spain; Copper mines and mining—Spain; Cost of living—Spain; Finance—Spain; Hydroelectric plants—Spain; Irrigation—Spain; Labor and laboring classes—Spain; Railroads—Electrification—Spain; Railroads—Spain; Strikes and lockouts—Spain; Tariff—Spain; Wages—Spain

Commerce

Spain and Italy your competitors and customers. F: Simpich. Nation's Business 12: 20-2 Ja '24

Description and travel

Spanish notes. R. A. Cram. il Am Arch 125: 47-54 Ja 16 '24

Towered cities. G. G. King. il Am Inst Arch J 12:103-9 Mr '24

See also Segovia, Spain

Economic conditions

Agrarian problem in Spain. F. de los Rios. maps Int Labour R 11:830-51 Je '25

Present financial and economic conditions in Spain. Econ W n s 30:406-7 S 19 '25

Spain under the Directorate. R. Beresford. Annalist 25:703 My 18 '25

What a bank architect saw in Spain. il Bankers M 110:100-2 Ja '25

Industries and resources

Spain; resources, industries and economic conditions. C: H. Cunningham and P. M. Copp. U S Bur For & Dom Com Trade Information Bul 243:1-28 '24

See also Electric industries—Spain; Gas industry—Spain; Iron mines and mining—Spain; Iron ores—Spain; Machinery industry—Spain

SPALLING of fire-brick. See Fire brick

SPANISH decoration. See Decoration and ornament, Spanish

SPARASSOL

Constitution of sparassol; abstract. A. St Pfau. Soc Dyers & Col J 40:151 My '24

Sparassol; abstract. E. Wedekind and K. Fleischer. Soc Dyers & Col J 40:380 N '24

SPARK arresters

Security unit locomotive spark arrester. il Ry Age 79:440 S 5 '25

SPARK gap

Beitrag zur theorie der kugelfunkenstrecken. M. Donath. Elektrotech Zeit 45:297-300 Ap 3 '24

Effect of electrode temperature on the sparking voltage of short spark gaps. F. B. Silsbee. diag U S Nat Advisory Com for Aeronautics 1923:347-54 '24

Investigation of the sparking voltage of spark-gaps. F. B. Silsbee. Automotive Ind 52:539-42 Mr 19 '25

Study of time lag of the needle gap. K. B. McEachron and E. J. Wade. il diags Gen Elec R 28:606, 622-33 S '25; Same cond. Am Inst E E J 45:46-52 Ja '26; Discussion. Am Inst E E J 44:1245-7 N '25

Temperature and pressure correction chart for the sphere gap. R. H. Marvin. Am Inst E E J 43:34-5 Ja '24; Discussion. C. T. Weller. 43:922 O '24

SPARK plugs

Controlling detonation under high compression; abstract and discussion. J. H. Holloway and G. A. Young. Soc Auto Eng J 14: 242-3 F '24

Minimum clearance of 3 in. necessary. il diag Soc Auto Eng J 16:411 Ap '25

Sparking plugs. A. C. Burgoine. diag Automobile Eng 14:301-4 O '24

Manufacture

Fixture for grooving spark plugs. F. M. Weston, jr. il diags Mach 31:897-8 Jl '25

Life spark of motordom. C. Patten. il Sci Am 133:182-3 S '25

Preparing and spraying a glaze slip with especial reference to the control of the various operations. R. Twells, jr. il diags Am Cer Soc J 7:465-73; Discussion. 473-4 Je '24

SPARKS, Electric. See Electric sparks

SPARTANBURG, South Carolina

Rapid transit

Supreme court at Columbia hears failings of city of Spartanburg and its railway property. Elec Ry J 62:831-2 N 10 '23

SPATHULATINE

New lupine alkaloid, spathulatine, isolated from lupinus spathulatus (rydb.). J. F. Couch. diag Am Chem Soc J 46:2507-14 N '24

SPAVINAW water supply project. See Tulsa, Oklahoma—Water supply

SPECIAL libraries. See Libraries, Special

SPECIAL libraries (periodical)

Cumulated index to Special libraries, v 1-13. C. G. Noyes, comp. 46p Special lib. assn., Boston '24

SPECIAL libraries association

Annual conference, 15th, Saratoga Springs, June 30-July 5, 1924. Special Lib 15:155-79 S '24

Annual convention, 16th, Swampscott, Mass., June 24-26. Special Lib 16:226-8, 238-40 Jl '25; Lib J 50:599-600 Jl '25

Association's objective. D. N. Handy. Special Lib 15:223 N '24

Constitution. R. B. Rankin. Special Lib 15: 77-9 Ap '24

Constitution for the Special libraries association. Special Lib 14:170-1 D '23; Adopted July 3, 1924. Special Lib 15:163-5 S '24

President's address at the annual convention, Swampscott, Mass., June 24, 1925. D. N. Handy. Special Lib 16:220-3 Jl '25; Same. Lib J 50:580-2 Jl '25

SPECIAL orders

Cost of making special apparatus. C. H. Roth. Elec W 86:39-40 Jl 4 '25

Policy of a shoe manufacturer with regard to special orders. Harvard Business R 3: 348-56 Ap '25

SPECIAL sales

How the dealer can be induced to maintain prices. E: M. Skinner Ptr Ink 132:70+ S 17 '25

Three hundred percent increase in sales in twenty months; special sales of kitchenets. F. S. Fenton, jr. Sales Management 7:1459-60 S '24

What does the retailer really think of specials? I. Van Voris. Ptr Ink 128:41-2+ S 25 '24

When a special is not a special. Ptr Ink 129: 90 N 27 '24

See also Bargain sales

SPECIAL trains, Educational

Business methods in agricultural promotion. J: T. Bartlett. Ry Age 76:178-9 Ja 12 '24

SPECIALIZATION in industry

What is going to happen to the small manufacturing plant? D. S. Cole. Ind Management 70:173-7 S '25

SPECIALTIES (merchandizing)

It's our best merchandising idea—and why. L: T. Marshall. System 47:605-7 My '25

Lifting a line above rivalry in a competitive field; specializing in apparel for small women. W. B. Edwards. Ptr Ink 128:101-2+ Ag 21 '24

Outcasts of production; Rollins hosiery mills not neglecting the large man. M. Harlan. Ptr Ink 129:10+ N 20 '24

Some vital reasons for pushing specialties. K. G. Merrill. Ptr Ink 128:8+ Ag 21 '24

Using a specialty to sell a line of staples; Burlington basket company. Sales Management 7:1654-5 O '24

What a specialty did for our established staples; handkerchief squares. H. Young. Ptr Ink 131:33-4+ Ap 23 '25

SPECIFIC gravity
Apparatus for determining the specific gravity of aggregates. F. H. Tucker. il diags Ind & Eng Chem 17:517-20 My '25
Correction of the density of liquids for the buoyancy of air. G. Barr. Chem Soc J 125: 1040-5 My '24
Densities of certain aqueous potassium chloride solutions as determined with a new pycnometer. H: C. Parker and E. W. Parker. diag J Phys Chem 29:130-7 F '25
Densities of solutions of aluminium chloride in liquid phosgene. A. F. O. Germann. diag J Phys Chem 29:138-41 F '25
Density and constitution of the industrial brasses. G. L. Bailey and R. Genders. il Engineering 119:539-41 My 1 '25
Density indicates soundness. T. G. Bamford. Foundry 52:352-4 My 1 '24
Density of a lubricating oil at temperatures from -40° to +20° C. H. K. Griffin. diag Ind & Eng Chem 17:1157-8 N '25
Determination of the density of liquid cast iron. H. A. Schwartz. il diag Ind & Eng Chem 17:647-9 Je '25
Direct reading apparatus for determining the approximate specific gravity of solids. E. A. Vuilleumier. diag Ind & Eng Chem 16:620 Je '24
Graphical vapor pressure and specific gravity tables. H. G. Deming. Ind & Eng Chem 16: 614-15 Je '24
Memorandum on specific gravity. Am Soc T M Pro 24 pt 1:760-2 '24
New determination of the specific gravities of solutions of ammonia. N. J. Price and C. S. L. Hawkins. diag Soc Chem Ind J 43:113-17 Ap 25 '24
Relation between surface tension, density, and chemical composition. S: Sugden. Chem Soc J 125:1177-89 My '24
Report of special sub-committee, of committee D-4, to consider definitions for specific gravity reported. Am Soc T M Pro 24 pt 1: 579-80 '24
Simplified specific gravity determination. F. M. Reiter. diags Gas Age 54:327-8 S 6 '24
Specific gravity defined. Automotive Ind 51: 116 Jl 10 '24
Specific gravity of concentration solutions of orthophosphoric acid. W: H. Ross and R. M. Jones. Ind & Eng Chem 17:1170-1 N '25
Specific heat-specific gravity-temperature relations of petroleum oils. W: R. Eckart. Mech Eng 47:535-40 Jl '25
Standard density and volumetric tables. [6th ed.] U S Bur Stand Circ 19:1-72 '24
Study of the density of carbon. H. C. Howard and G. A. Hulett. diags J Phys Chem 28:1082-95 O '24
Superseding chemical analysis by specific gravity tests. S. Mörtsell. il Eng & Min J 119:725-8 My 2 '25
Theory of molecular interaction in the liquid state. G. N. Antonoff. Philos Mag 6th ser 50:265-89 Jl '25
Thirteenth report of the research sub-committee of the gas investigation committee of the Institution of gas engineers; determination of specific gravity of gases. il diags Gas J (Lond) 170:891-7 Je 17 '25

See also Hydrometers

SPECIFIC heat
Atomic heat capacities of iron and nickel at low temperatures. W. H. Rodebush and J: C. Michalek. diag Am Chem Soc J 47:2117-21 Ag '25
Calorimeter for measuring specific heats of vaporization of liquids; the specific heat and heat of vaporization of liquid ethyl ether at 0° and 12°. F: G. Keyes and J. A. Beattie. diags Am Chem Soc J 46:1753-60 Ag '24
Catechism of central station gas engineering in the United States. Am Gas J 122:317-18, 339-40 Ap 11-18 '25
Change of state. Am Gas J 121:1201-2, 1223-4, 1243-4, 1265-6, 1289; 122:5-6, 33, 55, 77-8, 99-100, 145-6, 161, 183-4, 205 N 22-D 20 '24, Ja 3-31, F 14-Mr 7 '25
Critical pressure-ratio for gases as affected by variable specific heat. W. J. Walker. Philos Mag 6th ser 48:703-7 O '24
Improved differential method for the exact determination of specific heats of aqueous solutions; including results for various salts and organic acids. T. W. Richards and F. T. Gucker, jr. bibliog diags Am Chem Soc J 47:1876-93 Jl '25
Irregularities in the specific heats of certain organic liquids. J: W. Williams and F. Daniels. Am Chem Soc J 46:1569-77 Jl '24
Rotational specific heat and half quantum numbers. R: C. Tolman. Phys R 22:470-8 N '23
Specific heat and thermal diffusivities of certain explosives. A. M. Prentiss. il diags (Reprint & Circ. Ser. 52) 44p '24 25c National research council, 1701 Massachusetts av, Washington, D.C.
Specific heat of coal and its relation to composition. G. Coles. diags Soc Chem Ind J 42: 435-9 N 16 '23
Specific heat of incandescent tungsten by an improved method. L. I. Bockstahler. diags Phys R 25:677-85 My '25
Specific heat of superheated ammonia vapor. N. S. Osborne and others. U S Bur Stand Sci Pa 501:65-110 '25; Same. Refrig Eng 10: 145-68 N '23; Abstract. Mech Eng 46:50 Ja '24
Specific heat-specific gravity-temperature relations of petroleum oils. W: R. Eckart. Mech Eng 47:535-40 Jl '25
Specific heats and latent heats of fusion of ice and of several organic compounds. O. Maass and L. J. Waldbauer. Am Chem Soc J 47:1-9 Ja '25
Specific heats of binary mixtures. J: W. Williams and F. Daniels. Am Chem Soc J 47: 1490-1503 Je '25
Specific heats of carbon monoxide and hydrocyanic acid vapour. J. R. Partington and M. F. Carroll. diag Philos Mag 6th ser 49:665-80 Ap '25
Specific heats of certain organic liquids at elevated temperatures. J: W. Williams and F. Daniels. diags Am Chem Soc J 46:903-17 Ap '24
Specific heats of gases. J. R. Partington and W. G. Shilling. 252p [bibliog. p. 243-9] Van Nostrand '24
Specific heats of lubricating oils. E. H. Leslie and J. C. Geniesse. diag Ind & Eng Chem 16:582-3 Je '24
Specific heats of magnesium, calcium, zinc, aluminum and silver at high temperatures. E. D. Eastman, A. M. Williams and T. F. Young. Am Chem Soc J 46:1178-83 My '24
Specific heats of products of combustion from gas furnaces. L. E. Biemiller. Gas Age 53: 423-5 Ap 5 '24
Specific heats of trinitrotoluene, tetryl, picric acid and their molecular complexes. C. A. Taylor and W: H. Rinkenbach. Am Chem Soc J 46:1504-10 Je '24
Temperature dependency of the molecular heats of gases, especially of ammonia, methane, and hydrogen, at low temperatures. F. A. Giacomini. diags Philos Mag 6th ser 50:146-56 Jl '25
Water-gas equilibrium. J. R. Partington and W. G. Shilling. Soc Chem Ind J 44:149-50 Ap 3 '25

See also Steel—Specific heat

SPECIFICATIONS
Handbook of specifications for commodities purchased out of taxes. A. S. McAllister. Management & Adm 7:527-8 My '24
Incomplete specifications make trouble. L. G. Buehler. Elec W 84:1332 D 20 '24
Last word on commodity specification. Ptr Ink 132:119-20 Jl 9 '25
Materials and specifications discussed at annual meeting of A. S. T. M. at Atlantic City. Eng N 93:4-8 Jl 3 '24
National directory of commodity specifications. U S Bur Stand Misc Pub 65:1-379 '25
Outline of tentative specifications for electric resistance thermometer system. Am Arch 127:sup18+ F 11 '25

SPECIFICATIONS—*Continued*
Purchase of materials on specifications. D. Harvey. Ry R 77:240-1+ Ag 15 '25; Excerpts. Automotive Ind 53:108 Jl 16 '25
Specifying performance requirements rather than physical components. F. L. Rhodes. Am Mach 62:247 F 5 '25

See also Standards, Engineering; *also* subdivision Specifications under various headings, e.g. Building—Specifications; Roads—Specifications; Steel—Specifications

SPECTACLE cases
Eyeglass cases. il Iron Tr R 75:740 S 18 '24

SPECTACLES
See Glass, Optical; Lenses

SPECTRA. See Spectrum

SPECTROFLUORESCOMETRY. See Fluorescence

SPECTROGRAPH
Experimental study of grating errors and ghosts. R. W. Wood. Philos Mag 6th ser 48:497-508, pl 11 S '24
Müller X-ray spectrograph. il diags Engineering 117:46-7 Ja 11 '24
Photography and dyestuff testing. T. T. Baker, L. F. Davidson and W. A. Balmain. diag Soc Dyers & Col J 41:267-70; Discussion. 270-1 Ag '25
7-metre solar spectrograph for Poulkovo observatory. il diags Engineering 118:86-9, 96 Jl 18 '24
Short wave X-ray spectrograph and some K series emission wave-lengths. J. M. Cork. il Phys R 25:197-200 F '25
Le spectrographe à rayons X de Muller. Dannatt. il Chimie & Ind 13:735-6 My '25
Vacuum grating spectrograph and the zinc spectrum. R. W. Wood. Philos Mag 6th ser 46:741-50, pl 11 N '23

See also Spectrophotometer

SPECTROMETER
New precision X-ray spectrometer. W. Soller. diags Phys R 24:158-67 Ag '24
Precision X-ray spectrometer for chemical investigations. G. L. Clark, H. C. Weber and R. L. Hershey. il diags Ind & Eng Chem 17:1147-50 N '25

SPECTROPHOTOMETER
Bellingham-Stanley spectrophotometer. diags Engineering 117:140 F 1 '24

SPECTROPHOTOMETRY
Determination of hydrogen-ion concentration by a spectrophotometric method and the absorption spectra of certain indicators. W. R. Brode. diags Am Chem Soc J 46:581-96 Mr '24
New method for photographic spectrophotometry. L. A. Jones. J Fr Inst 200:127 Jl '25
Observations of spectro-photometric measurements of paint vehicles and pigments in the ultra-violet. G: F. A. Stutz. J Fr Inst 200: 87-102 Jl '25
Spectrophotometric analysis applied to chromotrope 10B. W. D. Appel and W. R. Brode. Ind & Eng Chem 16:797-9 Ag '24
Spectrophotometric comparison of artificial daylight with natural north sky light. P. R. Ord. diags Illum Engr 16:167-75; Discussion. 175-7 Jl '23
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; bromocresol green. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:226-9 Ja '25
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; 1-naphthol-2-sodium sulfonate indophenol. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:2232-6 Ag '25
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; the methods. W. C. Holmes. Am Chem Soc J 46:627-31 Mr '24
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; thymol blue. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:221-6 Ja '25
Spectrophotometric identification of dyes. W. C. Holmes. Ind & Eng Chem 17:59-60, 918-19 Ja, S '25
Spectrophotometry of the Zeeman effect in very weak magnetic fields. W. Mohammad. Philos Mag 6th ser 48:586-92 S '24

SPECTROSCOPE
Spectroscopy in the past and in the future. C: Fabry. J Fr Inst 199:13-25 Ja '25

SPECTRUM
Absorption and emission spectra of the Geissler discharge in mercury vapor and in mixtures of mercury and hydrogen. L: A. Turner and K. T. Compton. Phys R 25: 606-12 My '25
Applications of the correspondence principle to the theory of line-intensities in band-spectra. R. H. Fowler. Philos Mag 6th ser 49:1272-88 Je '25
Arc spectra of silver and copper. A. G. Shenstone. diags Philos Mag 6th ser 49:951-62, pl 9 '25
Arc spectrum of phosphorus. M. O. Saltmarsh. Philos Mag 6th ser 47:874-82 My '24
Band of unusual structure probably due to a highly unstable calcium hydride molecule. R. S. Mulliken. il Phys R 25:509-22 Ap '25
Band spectrum of mercury and the dissociation of hydrogen molecules by excited mercury atoms. K. T. Compton and L: A. Turner. Philos Mag 6th ser 48:360-3 Ag '24
Broadening of lines in arc spectra and the Stark effect. H. Lowery. Philos Mag 6th ser 49:1176-83, pl 12 Je '25
Colour of monocyclic substances calculated by assigning an absorption band to each possible tautomeric form. J. Moir. Chem Soc J 123:2792-2803 N '23
Constitution of spectra. W. M. Hicks. Philos Mag 6th ser 48:321-49 Ag '24
Critical potentials associated with excitation of alkali spark spectra. F. L. Mohler. diags U S Bur Stand Sci Pa 505:167-91 '25
CuH molecule and its band spectrum. H. Bell. Philos Mag 6th ser 49:23-32 Ja '25
Curvature of the spectral lines in a prism spectroscope. G. Subrahmaniam and D. Gunniaya. diags Philos Mag 6th ser 48: 896-8 N '24
Dependence of the Kα doublet with different chemical compounds. B. B. Ray. Philos Mag 6th ser 49:168-70 Ja '25
Effect of argon on the first positive band spectrum of nitrogen. R. C. Johnson. Philos Mag 6th ser 48:1069-74, pl 26 D '24
Electric and magnetic spectroscopy. W. Arkadiew. Philos Mag 6th ser 50:157-63 Jl '25
Emission band spectra of aromatic compounds. J. K. Marsh. Philos Mag 6th ser 49:971-80, 1206-16, pl 10 My-Je '25
Emission spectra of mixed alkali vapours. F. H. Newman. diag Philos Mag 6th ser 48: 159-63, pl 4 Jl '24
Emission spectra of organic compounds. W: H. McVicker, J. K. Marsh and A. W. Stewart. Am Chem Soc J 46:1351-8 Je '24
Excitation of forbidden spectral lines. P. D. Foote, T. Takamine and R. L. Chenault. il diag Phys R 26:165-75 Ag '25
Excitation of the helium spectrum by electronic bombardment. A. Udden and J. C. Jacobsen. il Phys R 23:322-6 Mr '24
Explosion of acetylene and nitrogen; spectra of explosions of gases containing hydrogen, carbon, nitrogen, and oxygen. W: E: Garner and S. W. Saunders. Chem Soc J 127:77-82 Ja '25
Extension of the negative band spectrum of nitrogen. T. R. Merton. Philos Mag 6th ser 50:195-9 Jl '25
Extension of the X-ray-doublet laws into the field of optics. I. S. Bowen and R. A. Millikan. Phys R 24:209-22 S '24

SPECTRUM—*Continued*

Fine structure, absorption, and Zeeman effect of the 2536 mercury line. R. W. Wood. diags Philos Mag 6th ser 50:761-74, pl 24 O '25

General nature of band spectra. J. W. Nicholson. Philos Mag 6th ser 50:650-62 S '25

Influence of the length of the radiating column on the width of spectral lines. B. Venkatesachar. diags Philos Mag 6th ser 49:33-59, pl 1 Ja '25

Intensity relations in the helium spectrum. C. B: Bazzoni and J. T. Lay. diag Phys R 23: 327-36 Mr '24

Interferometer measurements of the longer waves in the iron arc spectrum. W. F. Meggers and C. C. Kiess. U S Bur Stand Sci Pa 479:273-80 '24

Investigations on the platinum metals; arc spectra of the platinum metals. W. F. Meggers. U S Bur Stand Sci Pa 499:19-45 '25

Isotope effect in band spectra. R. S. Mulliken. Phys R 25:119-38 F '25

Isotope effect in band spectra; the spectrum of boron monoxide. R. S. Mulliken. il Phys R 25:259-94 Mr '25

Isotope effect in band spectra; the spectrum of copper iodide as excited by active nitrogen. R. S. Mulliken. il diags Phys R 26:1-32 Jl '25

Isotope effect in band spectra; the spectrum of silicon nitride. R. S. Mulliken. il Phys R 26:319-38 S '25

K and L absorption and emission spectra of tungsten. C. B. Crofutt. Phys R 24:9-15 Jl '24

Low voltage excitation of the spectrum of caesium. A. L. Hughes and C. F. Hagenow. diag Phys R 24:229-33 S '24

Luminescence of Grignard compounds: spectra and brightness. R. T. Dufford, D. Nightingale and S. Calvert. Am Chem Soc J 47:95-102 Ja '25

Mass-spectra of chemical elements. F. W. Aston. Philos Mag 6th ser 49:1191-1201 Je '25

Mass-spectra of chemical elements; accelerated anode rays. F. W. Aston. diag Philos Mag 6th ser 47:385-400 F '24; Abstract. J Fr Inst 198:135-7 Jl '24

Nature of the iodine line 2062A. L: A. Turner and K. T. Compton. Phys R 25:791-4 Je '25

New variety of spectra. W: H. McVicker, J. K. Marsh and A. Stewart. Philos Mag 6th ser 48:628-36 O '24

On the mercury line 2270A ($1S\text{-}2p_1$). T. Takamine and M. Fukuda. il diag Phys R 25:23-9 Ja '25

Optical excitation of the mercury spectrum, with controlled orbital transfers of electrons. R. W. Wood. diags Philos Mag 6th ser 50:774-96, pl 25 O '25

Optical screening-constant regularities. A. C. Menzies. Philos Mag 6th ser 50:414-22 Ag '25

Origin of certain spectral lines hitherto attributed to oxygen. W. Jevons. Philos Mag 6th ser 47:586-90 Mr '24

Photoluminescence of flames. E. L. Nichols and H. L. Howes. diags Phys R 22:425-31 N '23

Pole lines occurring in the interrupted arc spectra of silver, gold, and copper. H. Lowery. Philos Mag 6th ser 48:1122-31, pl 27 D '24

Production of atomic nitrogen and its arc spectrum. K. T. Compton. Philos Mag 6th ser 50:512-16 S '25

Quantum defect and atomic number. L: A. Turner. Philos Mag 6th ser 48:384-95, 1010-14 S, N '24

Radiating atoms in magnetic fields. P. Zeeman. il J Fr Inst 199:585-96 My '25

Redetermination of secondary standards of wave length from the new international iron arc. W. F. Meggers, C. C. Kiess and K. Burns. il U S Bur Stand Sci Pa 478:263-72 '24

Regularities in band spectra. S. Datta. Philos Mag 6th ser 48:673-92, pl 14 O '24

Relations of PP' groups in atoms of the same electronic structure. I. S. Bowen and R. A. Millikan. il Phys R 26:150-64 Ag '25

Series spectra of the stripped atoms of phosphorus (Pv), sulphur (Svi), and chlorine (Clvii). I. S. Bowen and R. A. Millikan. il Phys R 25:295-305 Mr '25

Series spectra of three-valence-electron atoms of phosphorus (Piii), sulphur (Siv), and chlorine (Clv). R. A. Millikan and I. S. Bowen. Phys R 25:600-5 My '25

Series spectra of two-valence-electron atoms of boron (B_{III}) and carbon (C_{III}). I. S. Bowen and R. A. Millikan. Phys R 26:310-18 S '25

Series spectra of two-valence-electron atoms of phosphorus (Piv), sulphur (Sv), and chlorine (Clvi). I. S. Bowen and R. A. Millikan. Phys R 25:591-9 My '25

Significance of spectroscopic magneton numbers. E. C. Stoner. Philos Mag 6th ser 49: 1289-1309 Je '25

Some conspicuous successes of the Bohr atom and a serious difficulty. R. A. Millikan and I. S. Bowen. Phys R 24:223-8 S '24

Some remarks on the Fulcher hydrogen bands. G. H. Dieke. Philos Mag 6th ser 50:173-9 Jl '25

Sommerfeld's and Lande's rules for classification of terms and Zeeman patterns in spectra. W. M. Hicks. Philos Mag 6th ser 48:1036-48 D '24

Spectra and critical potentials of fifth group elements. A. E. Ruark and others. il U S Bur Stand Sci Pa 490:463-86 '24

Spectra and their excitation, ionisation and critical potentials. Engineering 118:321-2 S 5 '24

Spectra of silicon and aluminium. W. C. Mc Quarrie. Philos Mag 6th ser 50:819-21, pl 28 O '25

Spectral series in the soft X-ray region. G. K. Rollefson. diag Phys R 23:35-45 Ja '24

Spectroscopic study of the cathodo-luminescence of fluorite. F. G. Wick. Phys R 24: 272-82 S '24

Spectroscopic study of the combustion of phosphorus trioxide and of hydrogen phosphide. H. J. Emeléus. diags Chem Soc J 127:1362-8 Je '25

Spectroscopic study of the luminescent oxidation of phosphorus. H. J. Emeléus and W: E. Downey. diag Chem Soc J 125:2491-5, pl 1 D '24

Spectroscopy. E: C. C. Baly. 3d ed. Longmans '24

Spectroscopy and Bohr's theory of atomic structure. P. D. Foote. J Fr Inst 198:344-63, 517-40 S-O '24

Spectroscopy and its relation to chemistry. H. Dingle. Soc Chem Ind J (Chem & Ind) 44: 602-3, 621-7, 651-3, 674-5 Je 12-Jl 3 '25

Spectroscopy in the past and in the future. C: Fabry. J Fr Inst 199:13-25 Ja '25

Spectroscopy of the sulfonated indigotins. W. C. Holmes. Am Chem Soc J 46:208-14 Ja '24

Spectrum of mercury below the ionization potential. J: A. Eldridge. diags Phys R 23: 685-92 Je '24

Spectrum of potassium at low voltages. F. H. Newman. Philos Mag 6th ser 50:796-803, pl 26 O '25

Spectrum of sodium at low voltages. F. H. Newman. Philos Mag 6th ser 50:165-73, pl 4 Jl '25

Studies in fluorescence spectra; aromatic amine vapours. T: H: Nunan and J. K. Marsh. Chem Soc J 125:2123-8 O '24

Studies in fluorescence spectra; phenol and phenolic ether vapours. J. K. Marsh. Chem Soc J 125:418-23 F '24

Studies in fluorescence spectra; some benzenoid hydrocarbon vapours. J. K. Marsh. diag Chem Soc J 123:3315-24 D '23

Table and graphs for facilitating the computation of spectral energy distribution by Planck's formula. U S Bur Stand Misc Pub 56:7 sheets (5 charts) '25; Abstract. J Fr Inst 200:387-8 S '25

Tesla-luminescence spectra; some hydrocarbons containing a single benzene nucleus. W: H. McVicker, J. K. Marsh and A. W. Stewart. Chem Soc J 125:1743-50 S '24

SPECTRUM—*Continued*

Tesla-luminescence spectra; some polynuclear hydrocarbons. W: H. McVicker, J. K. Marsh and A. W. Stewart. Chem Soc J 127:999-1006 My '25

Theory of the relation of spectral lines to mass variations within the atom. L. B. Ham. Phys R 25:762-7 Je '25

See also Infra-red rays; Light; Spectrum analysis; Stark effect; Ultra-violet rays; Zeeman effect

Absorption spectra

Absorption lines in the spectrum of the metallic spark in water. E. O. Hulburt. il Phys R 24:129-33 Ag '24

Absorption of a line of the principal series of singly ionized atomic mercury. L. A. Turner and K. T. Compton. diag Phys R 25:613-17 My '25

Absorption of light by vapours of Pb, Sn, Bi, Sb, and Mg. A. L. Narayan and K. R. Rao. Philos Mag 6th ser 50:645-9, pl 23 S '25

Absorption spectra and molecular phases. R: A. Morton and H. Barnes. Chem Soc J 123: 2570-2 O '23

Absorption spectra of benzaurin. W. R. Orndorff, R. C. Gibbs and S. A. McNulty. Am Chem Soc J 47:2767-77 N '25

Absorption spectra of certain derivatives of para-cymene. W. C. Holmes. Am Chem Soc J 46:631-5 Mr '24

Absorption spectra of copper, silver and gold vapors in the ultra-violet. R. V. Zumstein. Phys R 25:523-6 Ap '25

Absorption spectra of some derivatives of phenol and other substances. J: E: Purvis. Chem Soc J 125:406-18 F '24

Absorption spectra of the vapours and solutions of various ketones and aldehydes. J: E: Purvis. il Chem Soc J 123:2515-21 O '23

Absorption spectra of various aldehydes and ketones and some of their derived compounds. J: E: Purvis. Chem Soc J 127:9-14 Ja '25

Absorption spectrum of gelatin as a function of the hydrogen-ion concentration. H: P. Higley and J. H. Mathews. Am Chem Soc J 46:852-5 Ap '24

Absorption spectrum of lead vapor in the ultraviolet. R. V. Zumstein. Phys R 26:189-94 Ag '25

Absorption spectrum of potassium vapour at high temperatures. N. K. Sur and R. N. Ghosh. Philos Mag 6th ser 49:60-4, pl 2 Ja '25

Application of the correspondence principle to degenerate systems and the relative intensities of band lines. E. C. Kemble. Phys R 25:1-22 Ja '25

Balmer absorption series of hydrogen. E. O. Hulburt. il diag Phys R 23:593-7 My '24

Crystal structure and absorption spectra; the cobaltous compounds. R. Hill and O. R. Howell. diags Philos Mag 6th ser 48:833-47, pl 25 N '24

Determination of hydrogen-ion concentration by a spectrophotometric method and the absorption spectra of certain indicators. W. R. Brode. diags Am Chem Soc J 46:581-96 Mr '24

Experimental determination of relative transition probabilities in the sodium atom. G: R. Harrison. Phys R 25:768-82 Je '25

Halogen hydrides. H. Bell. diag Philos Mag 6th ser 47:549-60 Mr '24

Influence of constitutional variation in dyes upon their relative absorption in aqueous and alcoholic solutions. W. C. Holmes. Am Chem Soc J 46:2118-24 S '24

Influence of variation in concentration on the absorption spectra of dye solutions. W. C. Holmes. Ind & Eng Chem 16:35-40 Ja '24

L-absorption spectra of the elements from Sn (50) to W (74) and their relation to the atomic constitution. Y. Nishina. Philos Mag 6th ser 49:521-37, pl 8 Mr '25

Line breadths and absorption probabilities in sodium vapor. G: R. Harrison and J. C. Slater. Phys R 26:176-88 Ag '25

Method for the preparation of the double fluorides of the metals of the platinum group and the absorption spectra of the halogeno platinates. H. I. Schlesinger and M. W. Tapley. Am Chem Soc J 46:276-87 F '24

Methods for determining transition probabilities from line absorption. J. C. Slater. Phys R 25:783-90 Je '25

Near infra-red absorption spectra of some organic liquids. J. W. Ellis. diag Phys R 23:48-62 Ja '24

Optically active dyes; adsorption, absorption spectra and rotation. W. R. Brode and R. Adams. Am Chem Soc J 46:2032-43 S '24

Relative probabilities of the transitions involved in the Balmer series lines of hydrogen. F. C. Hoyt. Philos Mag 6th ser 47: 826-31 My '24

Series limit absorption in sodium vapor. G: R. Harrison. il diags Phys R 24:466-77 N '24

Some molecular absorption spectra of hydrogen cyanide. E. F. Barker. Phys R 23:200-4 F '24

Les spectres d'absorption des extraits tannants dans l'ultra-violet. A. de la Bruère. il diags Chimie & Ind 11:8-16 Ja '24

Studies of valency; absorption spectra of camphor, benzylidenecamphor, and camphorquinone—optical evidence of two types of conjugation. T: M. Lowry and H. S. French. Chem Soc J 125:1921-7 S '24

See also Spectrum, Infra-red; Spectrum, Ultra-violet

SPECTRUM, Infra-red

Emission and absorption bands by carbon dioxide in the infrared. J. W. Ellis. Phys R 26:469-74 O '25

Infra-red absorption spectra of organic derivatives of ammonia; aniline and some mono- and dialkyl anilines. F: K. Bell. diag Am Chem Soc J 47:2192-2207 Ag '25

Infra-red absorption spectrum of molten naphthalene. F: K. Bell. Am Chem Soc J 47: 2811-16 N '25

Near infra-red absorption spectra of some organic liquids. J. W. Ellis. diag Phys R 23:48-62 Ja '24

Spectroscopy in the infra-red region of the spectrum. A. Trowbridge. J Fr Inst 199:343-52 Mr '25

SPECTRUM, Ultra-violet

Extreme ultra-violet spectra. R. A. Millikan and I. S. Bowen. il Phys R 23:1-34 Ja '24

Fine structure of the nitrogen, oxygen, and fluorine lines in the extreme ultra-violet. I. S. Bowen and R. A. Millikan. Philos Mag 6th ser 48:259-64, pl 9 Ag '24

Influence of the pH upon the ultraviolet absorption spectra of certain cyclic compounds. W. Stenström and M. Reinhard. J. Phys Chem 29:1477-81 N '25

Ultra-violet absorption spectrum of furfural. F: H. Getman. il J Phys Chem 28:397-401 Ap '24

SPECTRUM, X ray

Characteristic X-rays from lithium. G. K. Rollefson. Phys R 25:740-6 Je '25

Effect of chemical constitution on the X-ray spectrum of sulphur. B. Ray. Philos Mag 6th ser 50:505-11, pl 17 S '25

Excitation of characteristic X-rays from certain metals. F. Horton, U. Andrewes and A. C. Davies. diag Philos Mag 6th ser 46:721-41 N '23

Extension of the X-ray-doublet laws into the field of optics. I. S. Bowen and R. A. Millikan. Phys R 24:209-22 S '24

Investigation of the tungsten X-ray emission and absorption spectrum with a vacuum spectrometer. R. V. Zumstein. Phys R 25: 747-52 Je '25

Irregularities of the $L\alpha$ doublet in the X-ray spectra. B. B. Ray. Philos Mag 6th ser 48: 707-11 O '24

Semi-optical lines in the X-ray spectra. E. Bäcklin, M. Siegbahn and R. Thoræus. Philos Mag 6th ser 49:513-17 F '25; Discussion. L: de Broglie and A. Dauvillier. 49: 752-3 Ap '25; Reply. 49:1320 Je '25

SPECTRUM, X ray—*Continued*
Some conspicuous successes of the Bohr atom and a serious difficulty. R. A. Millikan and I. S. Bowen. Phys R 24:223-8 S '24
Theory of the width of the modified spectrum lines in the Compton effect. G. E. M. Jauncey. Philos Mag 6th ser 49:427-33 F '25
Theory of X-ray absorption and of the continuous X-ray spectrum. H. A. Kramers. Philos Mag 6th ser 46:836-71 N '23
X-ray spectra of hafnium and thulium. D. Coster. Philos Mag 6th ser 46:956-63, pl 13 N '23

SPECTRUM analysis
Azo dyes from alkaloids of ipecac root and their identification by means of the spectroscope. S. Palkin and H. Wales. Am Chem Soc J 47:2005-10 Jl '25
Chemical analysis by X-ray spectra. Sci Am 131:171 S '24
Identification of phenols by means of the spectroscope. S: Palkin and H. Wales. Am Chem Soc J 46:1488-93 Je '24
Infra-red absorption spectra of organic derivatives of ammonia; aniline and some mono- and dialkyl anilines. F: K. Bell. diag Am Chem Soc J 47:2192-2207 Ag '25
Spectral analysis for detecting flaws. Am Mach 60:386 Mr 13 '24
See also Infra-red rays; Light; Spectrophotometer; Ultra-violet rays

SPECULATION
Bank clearings in 1924 and the course of trade and speculation. Comm & Fin Chr 120:257-65 Ja 17 '25
Federal reserve system and the speculative excesses in grain and in stocks. Comm & Fin Chr 120:1797-1805 Ap 11 '25
Method in dealing in stocks. J. H: Kerr, jr. 128p Speculatist co., Uniontown, Pa. '24
Speculation and investment. E. L. Smith. Comm & Fin 14:2202-3 N 11 '25
Speculative activity. Moody's Inv Serv 17:271 Ag 13 '25
Technical condition of the market. E. B. Gowin. 50p Putnam '23
Things to tell your men; speculation is a needful service. G: E. Roberts. Nation's Business 12:52+ D '24
Trading in futures. Nat City Bank p 94-5 Je '24
See also Hedging; Investments; Panics; Promoters; Securities; Stock exchange

SPEECH
Interfering effect of tones and noise upon speech reception. V. O. Knudsen. Phys R 26:133-8 Jl '25
Nature and reproduction of speech sounds (vowels). R: Paget. diags Inst E E J 62: 963-6 N '24; Abstract. Electrician 92:455 Ap 11 '24
Nature of language; a resumé of recent work on the physics of speech and hearing. R. L. Jones. bibliog Am Inst E E J 43:321-8 Ap '24
Objektive klangaufzeichnung. F. Trendelenburg. diags Elektrotech Zeit 46:915-18 Je 18 '25
Physical nature of speech and musical sounds. J: P. Minton. Wireless Age 12:40-1+ N '24

SPEED
See Railroads—Train speed; Ships—Speed

SPEED indicators
Les appareils enregistreurs de cordées. L. Lahoussay. diags Génie Civil 87:114-15 Ag 1 '25
Engine speed indicator for marine use. il Marine R 55:271-2 Jl '25
Indicateur acoustique de vitesse relative pour aéronef. A. de Gramont de Guiche. diag Génie Civil 86:67-8 Ja 17 '25
See also Accelerometer; Stroboscopic instruments; Tachograph; Tachometers

SPEED variation
Albaugh-Dover ball bearing spur gear reducer. diag Power Pl Eng 29:566 My 15 '25
Change-speed induction motors. C. W. Kincaid. il diags Elec J 21:357-63 Ag '24
Direct control of cutting speeds. diag Am Mach 62:501 Mr 26 '25
Foote bros. vertical worm-gear speed reducers. il Mach 31:834 Je '25
Gearless variable-speed transmission. il diag Mach 30:980-1 Ag '24
Hele-Shaw Beacham variable transmission gear. il diags Engineering 120:477-80 O 16 '25
How variable speeds can be obtained. F. E. Gooding. il Ind Eng 82:519-24+ N '24
Increasing speeds with spur gear speed reducers. F. A. Emmons. Am Mach 62:960 Je 18 '25
Interchangeable worm-and-gear speed reductions. G: L. Hedges. Mach 31:682-4 My '25
Meachem speed reducer. il Am Mach 61:632 O 16 '24; Mach 31:243-4 N '24
Mechanical continuous-torque variable-speed transmission; Weiss transmission. E: B. Sturges. il diags Soc Auto Eng J 15:86-92+ Jl '24; Discussion. 15:343-5 O '24
Mechanical speed control; automatic control for the Reeves variable speed transmission. il Textile World 64:3141-2+ N '23
New line of worm gear speed reducers by the De Laval steam turbine co. il Iron Age 115: 275 Ja 22 '25; Power 61:472 Mr 24 '25; Power Pl Eng 29:410 Ap 1 '25; Textile World 67: 2355 Ap 4 '25; Blast F & Steel Pl 13:223-4 My '25
Planetary gearing; secondary drives for increasing range of speed ratios. F. D. Furman. diags Mach 32:36-41 S '25
Le problème des changements de vitesses; le transformateur Constantinesco. F. Collin. il diags Génie Civil 86:201-7 F 28 '25
Le problème du changement de vitesse continu et ses principales solutions actuelles. A. Dumont. diags Génie Civil 83:537-40, 565-9, 586-9 D 1-15 '23
Reducing speed by gear sets. diags Iron Tr R 76:348-50 Ja 29 '25
Regulator changes fan speed. il Power Pl Eng 28:1122 N 1 '24
Speed reducers. H. D. Smith. Min Cong J 11: 330 Jl '25
Speed reducers. G. A. Van Brunt. Ind Eng 83:60-3 F '25
Speed reducers; their advantages and applications in the paper industry. J. R. Shays, jr. il Paper Tr J 81:51-3 O 15 '25
Speed reduction effected by novel device. il Power Pl Eng 29:824 Ag 1 '25
Speed regulation of strip and bar mills. il Electrician 91:606-8 N 30 '23
Speed regulation of underfeed stokers. J. E. Richardson. Power 60:24 Jl 1 '24; Discussion. 60:188, 223-4, 262, 301, 505-7 Jl 29-Ag 19, S 23 '24
Speed regulator for single motor drive. J. H. Ashbaugh. diags Elec J 21:390-3 Ag '24
Spur gear speed reducers. W. G. Jones. Am Mach 61:689-90 O 30 '24; Same cond. Ind Eng 83:155-6 Mr '25
Spur gear speed reducers for increasing speeds. F. A. Emmons. Chem & Met Eng 32:646 Jl '25
Variable speed a.c. motors. N. Pensabene-Perez. Engineer 139:624 Je 5 '25
Variable-speed winches with Williams-Janney gear. il diags Engineering 118:211-13 Ag 8 '24

SPEEDOMETERS
Ford speedometer for indicating and recording stoker speed. C: Learmouth. il Power 59:62 Ja 8 '24
See also Odometer

SPEEDWAYS
See Autodromes

SPELLING reform
Advertising leads the way in spelling reform. R: Surrey. Ptr Ink 129:103-4+ N 6 '24
Spelling of chemical terms. Soc Chem Ind J (Chem & Ind) 44:174 F 13 '25
Spelling of English. W. T. Hall. Soc Chem Ind J (Chem & Ind) 44:536 My 22 '25

SPELTER. See Zinc

SPENT oxide. See Iron oxides

SPERRY, Lawrence B., 1893-1923
Sketch. por Aviation 15:777 D 24 '23

SPHALERITE
Study of crystal structure and its applications. W. P. Davey. Gen Elec R 28:343-6 My '25

SPHERE gap. See Spark gap

SPHERES
Sizes of spheres to contain even quantities. J. E. Sinclair and J: M. Ceglowski. Am Mach 60:925 Je 19 '24

SPIDERS
Earliest engineers. S. F. Aaron. il Sci Am 131:36 Jl '24
Hunting spiders. S. F. Aaron. il Sci Am 132:160 Mr '25
Wonderful weaver of webs. E. Schild. il Sci Am 133:42-3 Jl '25

SPILLWAYS
Automatic spillway gates of Black Canyon dam. J. Hinds. il diags Eng N 94:1046-50 Je 25 '25
Conduit spillway plant in Michigan has 65-ft. head. Elec W 85:207-8 Ja 24 '25
Giant among vertical spillways; Davis bridge dam. il Sci Am 131:177 S '24
High-velocity discharge of overfall dams and forms of spillway profile. A. F. Meyer. diags Eng N 94:597-9 Ap 9 '25; Discussion. 94:780, 866, 945 My 7, 21, Je 4 '25
Hydraulic design of the shaft spillway for the Davis bridge dam, and hydraulic tests on working models. F. Kurtz. il diags plans Am Soc C E Pro 49:1953-2005 D '23; Discussion. 50:561-4, 671-8, 852-60, 1118-23, 1426-35 Ap-My, Ag-S, N '24
Placing the Wilson dam spillway gates. il Eng & Contr (G C) 63:807-8 Ap 17 '25
Side channel spillways; hydraulic theory, economic factors, and experimental determination of losses. J. Hinds. il diags plans Am Soc C E Pro 51:1350-96 S '25; Discussion. 2032-4; 52:107-10, 319-24 D '25-F '26
Wilson dam spillway regulating gates. diags Eng & Contr (W W) 62:1051-2 N 12 '24
Wise use of concrete in conservancy project, Pueblo, Colorado. E. C. McCain. il diags Concrete 27:18-21 Ag '25

See also Dams

SPINACH
Vitamins in canned foods; canned spinach. W. H. Eddy, E. F. Kohman and V. Carlsson. Ind & Eng Chem 17:69-74 Ja '25

SPINDLES
Breaking spindles. J. H. Albrecht. diag Iron Age 115:1142 Ap 16 '25
Grinding spindles and bearings. diags Automobile Eng 15:307-8 S '25
Making spindles for machine tools. S. W. Brown. il Am Mach 60:939 Je 19 '24; Discussion. G: Wilson. 61:742-3 N 6 '24
Methods of machine tool design. A. L. DeLeeuw. diags Am Mach 62:505-7 Mr 26 '25
Spindles are molded in cores. diag Foundry 52:445 Je 1 '24

SPINE
Spinal hypertrophic arthritis—its relation to compensable injuries. W. H. Eagar. U S Bur Labor Statistics Bul 385:86-8; Discussion. 88-91 '25
Surgery of the spine. R. A. Hibbs. J Ind Hygiene 5:315-18; Discussion. 347 Ja '24

See also Back strain; Backache

SPINNING
Function of hot water in the wet spinning of flax. W: H. Gibson. Textile World 66:1127+ Ag 30 '24

See also Cotton spinning; Textile fabrics; Textile industry; Woolen and worsted spinning

SPINNING, Metal. See Metal spinning

SPINNING machinery
Automatic roving check for spinning frames. diag Textile World 67:2727 Ap 18 '25
Auxiliary motion for backing-off. diag Textile World 68:792 Ag 8 '25
Comparison of ball and roller bearings with plain bearings by means of electrical tests on a spinning mule. W. E. Baker. il diags plan Textile Inst J 16:T290-304 S '25
Copping on the mule. F. Crossley. Textile Inst J 16:P112-13 Ap '25
Development of the spinning frame. R. E. Naumberg. il diags Mech Eng 46:825-40 pt 2 N '24; Excerpt. Textile World 67:195-7 Ja 10 '25
Driving of spinning frames; advantages of the possible types of motors. il Electrician 94:239+ F 27 '25
Der elektrische einzelantrieb der ring-spinnmaschine. W. Kerb. il diags Elektrotech Zeit 46:1501-4 O 1 '25
Management of French drawing. plans Textile World 66:1309 S 6 '24
Spinning and weaving mills; modern methods of electric driving used in Germany. H. Fuhrken. il Electrician 94:235-7 F 27 '25

See also Spinning rings; Textile machinery

Manufacture
Making iron channel frames. H. R. Simonds. il Foundry 51:933-7 D 1 '23

Patents
Is cap spinning an English invention? R. E. Naumburg. il Textile World 66:111+ Jl 5 '24

SPINNING rings
Large uses of steel in small ways. il Iron Tr R 74:741-2 Mr 13 '24

SPIRAL gearing. See Gearing, Spiral

SPIRES
Building a stone church; the spire. J: G. Dunlop. il diags Bldg Age 46:88-9 D '24
Metal work on spire, pinnacle and cross. W: Neubecker. diags Sheet Metal Worker 15: 319-21, 381-3 My 23-Je 6 '24

See also Domes; Finials

SPIRIT levels. See Levels

SPIRITUALISM
Spirit return. I. A. Gilbert. Sci Am 133:85+ Ag '25

See also Psychical research

SPIRO compounds
Formation and stability of *spiro*-compounds; bridged *spiro*-compounds from *cyclo*pentane. C. K. Ingold, E. W: Lanfear and J. F. Thorpe. Chem Soc J 123:3140-51 D '23
Formation and stability of *spiro*-compounds; further evidence for the multiplanar configuration of the *cyclo*heptane ring. J: W: Baker. Chem Soc J 127:1678-82 Jl '25

SPITZBERGEN
Spitzbergen passes into Norway's rule. Comm & Fin Chr 121:932 Ag 22 '25

SPLASHES
Impact with liquid surfaces of solid bodies of various shapes. G. E. Bell. Philos Mag 6th ser 49:451-6, pl 7 F '25

SPLINES. See Keys and keyways

SPODUMENE
Geology of the Etta spodumene mine, Black Hills, South Dakota. G. M. Schwartz. bibliog diags Econ Geol 20:646-59 N '25

SPOILAGE
Effective way to reduce spoilage. Factory 31: 838+ D '23
Making salvage work do double duty. R: C. Daniels. Factory 35:214-16+ Ag '25
Paying for the damaged work. Monthly Labor R 21:349 Ag '25
Scrap analysis as a waste preventative. R. G. Cook. Management & Adm 8:184 Ag '24
Steps taken to analyze and reduce shrinkage of materials. Ind Management 68:215-16 O '24
We harnessed the sports instinct. H. M. Robins. il Factory 35:544-6 O '25

See also Salvage (waste, etc.); Waste

SPOKANE, Washington
Spokane has the spirit of the go-getter. R: Spillane. il Forbes 13:625-8+ Mr 1 '24

SPONGE iron. See Iron, Sponge

SPONGES
This whole industry is imported; sponge trade at Tarpon Springs, Florida. G. McKinstry. il Nation's Business 13:36+ Ag '25

SPONTANEOUS combustion
Action of catalysts with nondrying oils. A: H. Gill. Ind & Eng Chem 16:23-4 Ja '24
Adiabatic method for studying spontaneous heating of coal. J. D. Davis and J. F. Byrne. diag Am Cer Soc J 7:809-16 N '24
Chemists study coal storage and spontaneous combustion. Power 60:439-40 S 9 '24
Coal piles that light themselves. J. F. Springer. il Sci Am 131:104 Ag '24
Decomposition of anthracite coal. F. Hinden. Am Gas J 122:159, 169-71 F 21 '25
Does sprinkling increase spontaneous combustion in mines? C. P. Crawford. Coal Age 28:312-13 S 3 '25
Factors in spontaneous combustion of coal. O. P. Hood. Mech Eng 45:691+ D '23; Same. Am Gas J 119:676-7+ D 29 '23; Same. Engineering 117:160 F 1 '24; Abstract. Power 58:940 D 11 '23
Further researches on the various types of pyrites in coal, especially in relation to spontaneous combustion. J. Lomax. Gas J (Lond) 170:656 Je 3 '25
Fusain and its oxidation; studies in the composition of coal. F: V. Tideswell and R: V. Wheeler. Chem Soc J 127:125-32 Ja '25
Selbstentzündung von ölen und brennstoffen. H. Jentzsch. diags Zeit Ver Deutsch Ing 68:1150-2 N 1 '24
Selective combustion in coal. F. S. Sinnatt. Coal Age 27:365-6 Mr 5 '25
Spontaneous combustion and clinkering; abstract. H. W. Brooks, J. D. Davis and W. A. Selvig. Elec W 84:175 Jl 26 '24
Spontaneous combustion of coal. J. I. Graham. Soc Chem Ind J 43:79-87 Ap 4 '24
Spontaneous combustion of cotton scientifically explained. Paper 35:637 Ja 29 '25
Storage of coal and spontaneous combustion round table discussion. il diags Ind & Eng Chem 17:115-30 F '25
See also Coal storage

SPOOLERS. See Cotton mills—Employees

SPOONS
Story of the spoon. A. F. Saunders. il Metal Ind 22:148-50, 277-9 Ap, Jl '24

SPORTING goods
Athletic goods sold on credit. R. A. Martire. Credit M 27:9+ Ag '25
European market for sporting and athletic goods. C. J. North. U S Bur For & Dom Com Trade Information Bul 179:1-30 '24
Far Eastern market for sporting and athletic goods. C. J. North. U S Bur For & Dom Com Trade Information Bul 308:1-30 '25
Latin American market for sporting and athletic goods. C. J. North. U S Bur For & Dom Com Trade Information Bul 232:1-34 '24
Market for athletic goods in Africa and the Near East. C. J. North. U S Bur For & Dom Com Trade Information Bul 319:1-13 '25
Market for athletic goods in Canada and Newfoundland. C. J. North. U S Bur For & Dom Com Trade Information Bul 230:1-13 '24
Merchandising opportunities created by outdoor sports. G: A. Miller. il Dun's Int R 45: 52-5 Je '25

SPORTS
See Golf; Radio broadcasting—Sporting news

SPRAGUE, Frank Julian, 1857-
Sketch. Am Inst E E J 43:900 O '24

SPRAYING and dusting
Commercial crop dusting; details of the operations of the Huff Daland dusters. R. W: Riis. il Aviation 18:573 My 25 '25
Electric power for orchard spraying. B. D. Moses and W. P. Duruz. il diag plan J Elec 54:129-31 F 15 '25; Discussion. 54:197, 234-5 Mr 15-Ap 1 '25

SPRAYING materials
Adherent arsenical preparations. W: Moore. Ind & Eng Chem 17:465-6 My '25
Selenium compounds as spray materials. F. M. Lougee and B. S. Hopkins. Ind & Eng Chem 17:456-9 My '25
Translation of chemicals into crop yields. G: E. Sanders. Chem Age 32:287-9 Jl '24
See also Insecticides

SPRINGFIELD, Illinois

Architecture
Centennial memorial building, Springfield, Illinois. H. M. G. Garden. il Arch Forum 40:201-4, pl 65-72 My '24

Rapid transit
Springfield for franchise. Aera 13:867-70 D '24; Elec Ry J 64:931 N 29 '24

Sewerage
Chlorinated overflow storm sewage to go into water reservoir. Eng N 92:973 Je 5 '24
Sewerage plans for Springfield, Ill. Pub Works 55:234 Jl '24

Water supply
Water treatment and softening plant at Springfield. C. S. Timanus. il Am Water Works Assn J 13:630-7 Je '25; Same. Munic & Co Eng 68:208-11 Ap '25; Same. plan Eng & Contr (W W) 63:1047-51 My 13 '25; Abstract. Eng N 95:389 S 3 '25; Same. Sanitary & Heat Eng 104:211 O 2 '25

SPRINGFIELD, Massachusetts
Remolding our civic clay; Springfield, Mass. A. G. Ingalls. il Sci Am 130:90+ F '24
Why it's safe to live and work in Springfield. G: E. Wallis. il Nat Safety N 11:5-8 F '25

Bridges
Wheel-guards proposed in Springfield bridge report. Eng N 93:846 N 20 '24

Rapid transit
An hour saved for twenty cents; Hartford and Springfield street railway supplements service with bus lines. il Bus Transportation 4:121-3 Mr '25
Jitneymen find law works. Aera 12:2075-6 Jl '24
Jitneys made a political issue in Springfield, Mass. Elec Ry J 64:857-8 N 15 '24
Springfield ousts jitneys. Aera 12:1537-9 Ap '24

SPRINGS
Ebb and flow springs in the Ozarks. J. Bridge. chart diags map Mo U Sch Mines & Met Bul tech ser 7:17-26, pl 1-3 N '23
New spring water supply and covered reservoir, Batavia, D.E.I. C. Ortt. diag Eng N 92:860 My 15 '24
See also Hot springs

SPRINGS (mechanism)
Beitrag zur bestimmung der elastischen formänderung und der momente von zylindrischen schraubenfedern mit gebogener achse. R. Ziegler. diags Elektrotech Zeit 46:839-42 Je 4 '25
Calculation and design of coiled springs. E. W. Stewart. diag Soc Auto Eng J 17:195-201 Ag '25
Causes of spring failures. J. W. Rockefeller. jr. il diags Mach 30:965-6 Ag '24
Characteristics of the ring spring. O. R. Wikander. diags Am Mach 60:253-4 F 14 '24
Code of design for mechanical springs. J. K. Wood. diags Mech Eng 47:713-18 S '25
Coil spring calculation. J: W. Rockefeller, jr. charts diag Mach 30:874-5 Jl '24
Design of helical springs. J. W. Rockefeller, jr. diag Mach 31:205-6 N '24
Development in the design of automotive and railway leaf springs. J. K. Wood. diags Am Mach 62:923-8 Je 11 '25
Helical phosphor-bronze springs; data sheets. Mach 30:346a, 430a Ja-F '24
Helical round-bar steel springs; data sheets. J. H. Sullivan. Mach 31:524a, 608a, 690a, 776a Mr-Je '25
Hofmann air spring. diag Automotive Ind 50: 958 My 1 '24
Laminated springs. T. H. Sanders. 519p Spon '23
Mechanical springs. J. K. Wood. Mech Eng 47:258-60; Discussion. 260 Ap '25

SPRINGS (mechanism)—*Continued*
Preliminary progress report of the A.S.M.E. special research committee on metal springs. Mech Eng 46:793-5 pt 2 N '24
Quick-acting dynamometric contact spring. F. J. Schlink. diag Am Mach 62:887 Je 4 '25
Railroad buffer springs; abstract; E. Kreissig. diags Mech Eng 46:221-2 Ap '24
Railway and automotive leaf springs. J. K. Wood. diags Am Mach 61:719-21; 62:187-90 N 6 '24, Ja 29 '25

See also Automobiles—Springs; Car springs; Locomotives—Springs; Motor buses—Springs; Motor trucks—Springs; Watch springs

Manufacture

A. S. S. T. recommended practice for the heat-treatment of plain carbon and alloy spring steel. Am Mach 63:145 Jl 23 '25; Same. Mach 32:31 S '25
Besly coil spring grinding machine. il Am Mach 60:151 Ja 24 '24
Cutting airplane-starter spring from solid metal. P. T. Ash. il diags Am Mach 62:538 Ap 2 '25; Discussion. A. Silvester. 63:768 N 12 '25
Generating a conical spiral in a lathe. J. Williams. il Am Mach 60:183 Ja 31 '24; Discussion. J. Kyn. 60:447 Mr 20 '24
Grinding the ends of coil springs. il Mach 30: 705 My '24
Heat treatment of spring steel. J. E. Burns, jr. diag Ry Mech Eng 99:111-14 F '25
Heat-treatment of steel springs. J. W. Rockefeller, jr. il Mach 31:4-5 S '24
Heat treatment of steel springs. J. K. Wood. Am Mach 61:443-6 S 18 '24
Helical phosphor-bronze springs. Mach 30: 262a D '23
How to select a spring material. J. K. Wood. Am Mach 60:49-52 Ja 10 '24
Making springs for motor vehicles. F. H. Colvin. il Am Mach 60:509-11 Ap 3 '24
Manufacture of wire springs. J. W. Rockefeller, jr. Mach 31:115 O '24
Winding a 300-foot coil spring. H: J. Appel. diags Mach 31:210 N '24

Standards

Standardizing springs for agricultural machinery. H. F. Crawford. il Am Mach 61: 450 S 18 '24

Terminology

Spring nomenclature proposed Soc Auto Eng J 14:385-6 Ap '24

Testing

Spring-testing machine for weighing and repetition tests. il diag Engineering 119:316, 317 Mr 13 '25

SPRINKLER heads

Manufacture

Assembling sprinkler heads. il diag Mach 30: 603-4 Ap '24

SPRINKLING systems
Automatic fire-control. H: A. Fiske. Safety Eng 47:186-7 Ap '24
Automatic sprinkler charges and regulations. Am Water Works Assn J 12:331-5 N '24
Automatic sprinkler system installed by experienced engineers has become the most important safeguard against fire. A. C. Carruthers. Safety Eng 48:193-5 N '24
Charges for automatic fire sprinkler system. L. Ellis. Am Water Works Assn J 13:544-6 My '25
External water-curtain for sky-scraper protection. il Sci Am 131:247 O '24
How to hold sprinklered risk lines. E. J. Phillips. Spectator 113:36-7 S 11 '24
Maintaining antomatic sprinklers. Elec Ry J 63:609-10 Ap 19 '24
Making of the fire insurance rate; schedule for rating sprinklered risks. E. R. Hardy. Spectator 114:4+ Ja 8; 4+ Ja 15 '25
Use and care of sprinklers. W. O. Lincoln. Spectator 115:31 Jl 2 '25

See also Fire protection

Inspection

Spring inspection of fire apparatus. Safety Eng 47:240-2 My '24

SPROCKET wheels
Cast sprockets for power. il Am Mach 62: 539-40 Ap 2 '25
Caterpillar sprocket wheel with removable teeth. il Sci Am 130:103 F '24
Improved design of chain sprocket teeth. C: R. Weiss. diags Am Mach 61:993-6 D 5 '24; Same. Am Pet Inst Bul 6:63-8 S 4 '25

Manufacture

Hobbing coarse-pitch sprockets. C. G. Olson. il diag Mach 31:956 Ag '25
Making roller-chain sprockets without a sprocket cutter. G. E. Roberts. diag Am Mach 61:972 D 18 '24
Making sprockets in a lathe. A. J. Weis. diags Mach 30:928-9 Ag '24
Manufacturing silent chain parts. C. J. Priebe. il diag Am Mach 60:811-14 My 29 '24
Remedying faults in sprockets. J: S. Watts. diags Mach 30:350-1 Ja '24

SPRUCE
Contribution to the knowledge of the constitution of spruce wood lignin. P: Klason. Tech Assn Pa ser 7:137-9 Je '24; Same. Paper Tr J 79:44-6 Jl 17 '24
Effect of light during growth upon the cellulose content of red spruce. G: J. Druckerman. Paper Tr J 81:45-9 Jl 30 '25
Lignosulphonic acid obtained by the action of sulphurous acid on spruce wood. C: Dorée and L. Hall. Soc Chem Ind J 43:257-63 Ag 1 '24
Lignosulphonic acid obtained from spruce wood by the action of sulphurous acid in the presence of ammonia. C: Dorée and L. Hall. Soc Chem Ind J 44:270-4 Je 5 '25
Pulp yields from spruce and balsam. G. J. Armbruster. Paper Tr J 80:61 Je 11 '25

SPUR gearing. See Gearing, Spur

SQUARE (instrument)
Draw angles with the square. W. C. Ewalt. diags Foundry 53:895-6 N 1 '25
Square found early use. W. C. Ewalt. diags Foundry 53:750-1 S 15 '25
Square is an essential tool in making patterns. W. C. Ewalt. diags Foundry 53:841-3 O 15 '25

SQUARE root
Mechanical determination of square roots. C: A. Pease. diag Power 60:265 Ag 12 '24
Some easy dodges in mathematics. L. C. Jordan. Eng & Contr (Bldgs) 60:1109-10 N 28 '23

SQUARES (cities)
Beaux-arts institute of design. il Am Arch 126:409-12 O 22 '24

SQUEEZER molding machine. See Molding machines

SQUIBB, E. R., & sons
How sampling is effectively used by E. R. Squibb & sons. T. Weicker. Ptr Ink 129: 127-8+ D 11 '24

STABILITY
See Airplane stability and stabilizers; Equilibrium; Ships—Stability

STABILITY, Chemical. See Chemical equilibrium

STABILIZERS. See Airplane stability and stabilizers

STABLE money association
Organization meeting, New York, April 11. Comm & Fin Chr 120:1965 Ap 18 '25

STABLES. See Barns and stables

STACCATONE. See Radio apparatus

STACKS. See Chimneys

STADIA
Building the Nebraska university concrete stadium. il diags Eng N 93:498-500 S 25 '24
California memorial stadium combines earth bowl and coliseum type concrete construction. il Concrete 24:143-5 Ap '24

STADIA—*Continued*
Construction notes on Texas university stadium. A. T. Granger. il diags plan Eng N 95:557-8 O 1 '25
Control of concrete for the University of Illinois stadium. W. A. Slater and R. L. Brown. il plan Am Concrete Inst Pro 20: 403-19 '24
Cornell Crescent. G. Hadden. diags Sibley J 39:310-13+ Ap '25
Cornell Crescent. G. Hadden. il (front) diag plan Arch Rec 57:193-203 Mr '25
Count of football crowds gives hints on stadium design. C. T. Morris. Eng N 91:985-6 D 13 '23
Design of seating areas for visibility; a mathematical method of section design. A. B. Randall and E. S. Crawley. Am Arch 125: 487-93 My 21 '24
Drainage of California stadium playing field. W. W. Weir. il plan Eng N 92:714-16 Ap 24 '24
Financing a high school stadium. Concrete 25:184-5 N '24
Grant park stadium, Chicago. il Arch Forum 42:79-80, pl 9-10 F '25
Notes on construction of concrete stadium; Ross-Ade stadium at Purdue university. W. K. Hatt. diags Am Concrete Inst Pro 21: 113-23; Discussion. 124-5 '25
Pasadena, California, stadium. M. Hunt. il diags plans Am Arch 128:341-6 O 20 '25
Pittsburgh stadium frame part concrete and part steel. il plans Eng N 95:222-4 Ag 6 '25
Le stade Olympique de Colombes, près de Paris. F. Rod. il diags plans Génie Civil 85: 125-31 Ag 9 '24
Stadia. R. L. Morin. il plans Am Arch 126: 197-205 Ag 27 '24
Stadia sight lines. B. M. Thorud. diags Am Arch 124:563-7 D 19 '23
Student work, Beaux-arts institute of design. Am Arch 125:43-5 Ja 2 '24
University of Pittsburgh stadium. W. S. Hindman. Eng Soc W Pa 41:284-8 O '25
Wembley Park stadium, London, England, and the Los Angeles coliseum. R. L. Morin. il diag plan Am Arch 125:427-34 My 7 '24
Yankee stadium, New York. R. L. Morin. il Am Arch 124:412-16 N 7 '23
See also Amphitheaters

Bibliography
Reinforced concrete grandstands and stadia. 5p Engineering societies library, 29 W. 39th st., New York '25 (typew)

Cost
Placing concrete in grandstands and stadia. diags plans Concrete 24:159-63 Ap '24

STAGE lighting
Decorative and theatrical lighting. C. Bragdon. Illum Eng Soc 19:888-901 N '24
Detachable color globes a new feature embodied in stage lighting equipment. il Arch & Bldg 56:79-80 Ag '24
Impossible in stage lighting is achieved. J: J. Wallace. il Sci Am 133:154-5 S '25
Improvements in stage lighting control equipment. Am Inst E E J 43:1090 N '24
Kleinbühnen-beleuchtung; abstract. V. Paetow. diags Elektrotech Zeit 45:724-6 Jl 3 '24
Stage lighting in connection with music. M. Wurm. Illum Engr 17:160-2 O '24
See also Moving picture studios—Lighting; Theaters—Lighting

STAGE mechanism
Behind the curtain of a great theater—some of the things the audience never sees. il Sci Am 131:313 N '24
Notable stage elevator installation. Eng & Contr (Bldgs) 60:1354 D 26 '23
Stage layout and equipment. E: H. Kearney. il Arch Forum 42:409-10 Je '25
See also Theaters—Stage setting and scenery

STAINED glass
Christopher Whall, artist-craftsman. C: J. Connick. il Am Inst Arch J 13:245-50 Jl '25
Recent work of Clement Heaton in stained glass. L. V. Solon. il Arch Rec 56:283-5 S '24
Sixteenth century Flemish stained glass windows. il Am Arch 127:379-80 Ap 22 '25
Stained glass construction and details. W. H. Burnham. il Arch Forum 40:59-62, 157-60 F, Ap '24
Stained glass tours in Spain and Flanders. C: H. Sherrill. 245p Dodd '24

STAINLESS iron. See Iron, Stainless

STAINLESS steel. See Steel, Stainless

STAINS
Stains on textiles. Textile World 65:2005+ Mr 22 '24
See also Cleaning; Cotton fabrics—Stains

Removal
Bleaching and stain removing compound; patent. Color Tr J 16:148-9 My '25
Removal of stains and spots in finished goods. T. Johnson. Am Dyestuff Rep 14:664-5 O 5 '25

STAINS and staining (microscopy)
Basic fuchsine for biological staining. H. J. Conn. Color Tr J 15:166-7 D '24

STAINS and staining (wood)
See Varnish and varnishing; Wood finishing

STAIRWAYS
Let's build comfortable stairs. J. T. Beard. charts Bldg Age 46:85-6+ Je '24
Stair builders' guide. M. Williams. 256p U.P.C. book co. '23
Stair construction. diags Bldg Age 47:104 Ag; 111 S '25
Stairway built at same time as concrete floors. il Eng N 94:375-6 F 26 '25
Strong and simple stairway for use around machinery. D. A. Hampson. diags Ind Eng 83:196 Ap '25

STAIRWAYS, Concrete
Design of concrete stair slabs. J. Feld. diags Eng N 93:876-8 N 27 '24
They said it couldn't be done; unique staircase at Coral Gables, Florida. il Concrete 27:35 N '25

STAMMERING
Stammering and stuttering. B. E. Crawford. Nation's Health 6:229-30 Ap '24

STAMPED envelopes. See Envelopes, Stamped

STAMPING
Battery of drop stamps with multiple impression dies. il diag Engineering 118:705-6, 708 N 21 '24
Development of modern stamping practice. W. W. Galbreath and J: R. Winter. il Am Mach 59:883-7 D 13 '23; Same. Engineering 117:124-6 Ja 25 '24; Same cond. Mech Eng 46:17-19 Ja '24
Development of power presses and dies. H: J. Hinde. il diags Iron Age 113:22-8 Ja 3 '24
Hot stampings and their production. G. F. Keyes. il Soc Auto Eng J 17:452-4 N '25; Abstracts. Am Mach 63:524g-h S 24 '25; Automotive Ind 53:539-40 S 24 '25; Discussion. Soc Auto Eng J 18:57-9 Ja '26
Standardized sub-press compound dies. W. E. Irish. il diags Am Mach 63:177-81 Jl 30 '25

STANDARD cells
Saturated standard cells with small temperature coefficients. W. C. Vosburgh. Am Chem Soc J 47:2531-40 O '25

STANDARD gas and electric company, Chicago
Report for the year ended December 31, 1923. Comm & Fin Chr 118:2076-9 Ap 26 '24
Report for the year ended December 31, 1924. Comm & Fin Chr 120:2034-7 Ap 18 '25
Standard gas & electric company convertible 6½s. Moody's Inv Serv 17:24 Ja 15 '25

STANDARD of living
Decline in standard of living of Hungarian working classes. Monthly Labor R 18:311-14 F '24

STANDARD of living—*Continued*
New wealth, new standards of living and changed family budgets. C. Frederick. Ann Am Acad 115:74-82 S '24
Social and economic standards of living. T. S. McMahon. 420p Heath '25
See also Cost of living

STANDARD oil company
History of the Standard oil company; reprint. I. M. Tarbell. v 1 & 2 Macmillan '25

STANDARD oil company building, New York
Architecture and decoration in the modern office; with special reference to the offices of the Standard oil company of New Jersey, Standard oil building, New York. il diags plan Am Arch 128:15-20 Jl 1 '25
Importance of winter building in the construction industry; erection of the Standard oil building, New York. il chart plan Am Arch 127:31-8 Ja 14 '25
Standard oil building, New York city. il Arch & Bldg 57:64-6, pl 160-6 Ag '25

STANDARD oil company of California
Annual report, year ended Dec. 31, 1923. Comm & Fin Chr 118:2300-1 My 10 '24
Annual report year ended Dec. 31, 1924. Comm & Fin Chr 120:2810 My 30 '25
Better Pacific coast markets boost California Standard's profits. R. B. Stafford. Nat Pet N 17:124 Je 10 '25
Which companies have the lowest labor turnover in America? W. J. Held. Forbes 16: 258+ Je 1 '25

STANDARD oil company of Indiana
Indiana Standard completes deal for Mexican petroleum properties. R. B. Stafford. Nat Pet N 17:33-4 Ap 1 '25
Missouri Attorney general moves to oust Standard of Indiana. J. C. Chatfield. Nat Pet N 16:35-6 S 17 '24
Pan-American oil control passes to group headed by Standard of Indiana. Oil Paint & Drug Rep 107:19 Ap 6 '25
S.O. Indiana declares Burton licenses open field to competitors. Nat Pet N 16:79 O 15 '24
S.O. Indiana officer says Doheny deal won't alter present policies. R. B. Stafford. Nat Pet N 17:17-18+ Ap 8 '25
Standard of Indiana has good year in 1924. Nat Pet N 17:60+ Mr 18 '25
Standard of Indiana in new deal to assure itself production. V. B. Guthrie. Nat Pet N 17:33-5 Mr 18 '25
Statement on Indiana Standard at Missouri hearing. R. W. Stewart. Nat Pet N 16:93+ S 24 '24

STANDARD oil company of Nebraska
Standard of Nebraska has good year in 1924. Nat Pet N 17:60+ Mr 18 '25

STANDARD oil company of New Jersey
Annual report year ended Dec. 31, 1924. Comm & Fin Chr 120:2540 My 16 '25
New Jersey Standard nets only $3.30 per share on biggest turnover. R. B. Stafford. Nat Pet N 17:60-1+ Je 3 '25
Standard of New Jersey income fails to keep pace with record trade. R. B. Stafford. Nat Pet N 16:23-4 My 21 '24
Which companies have the lowest labor turnover in America? C. J. Hicks. il Forbes 16:748+ S 1 '25
See also Teagle, Walter C.

Library
Standard oil company of New Jersey. D. F. Brown. Special Lib 16:271-4 O '25

STANDARD oil company of New York
Standard oil of N. Y. serial 7% debentures. Moody's Inv Serv 16:368 O 2 '24; Correction. 16:375 O 9 '24

STANDARD statistics company
Statistical library a necessity. A. Y. Barrow. Special Lib 16:110-11 Ap '25

STANDARDIZATION
Abstracts of papers, committee reports and discussions before the American water works association 44th annual convention. Eng N 92:924-8 My 29 '24
Advantages of standardization to industry. F. J. Schlink. Management & Adm 8:496 N '24; Same. Mech Eng 47:592-3 Jl '25
American society for testing materials makes progress in revision of standards. Am Mach 62:1018a-b Je 25 '25
Classification of engineering and industrial standards. F. J. Schlink. il diags Mech Eng 47:119-22 F '25
Common-sense of standardization. J. H. Trumbull. Elec W 85:483 F 28 '25
Competency and economy in public expenditures. Ann Am Acad 113:269-305 My '24
Developments in industrial standardization during 1924. Mech Eng 47:143 F '25; Refrig Eng 47:275 Ja '25; Am Mach 62:158 Ja 22 '25; Management & Adm 9:128 F '25
Education, research, and standardisation. J: Dewrance. Engineer 140:240 S 4 '25; Abstract. Engineering 120:297 S 4 '25
Effect of standardisation on production. C. Le Maistre. Cassier's Ind Management 11: 13 Ja 10 '24
Engineering and industrial standardization. Published in monthly numbers of Mechanical engineering
Equipment distributors should have part in standardization plans. K. B. Noble. Eng N 92:548-9 Mr 27 '24
Example of standardization in German industry. charts Mech Eng 46:54-5 Ja '24
Extreme variety versus standardization. J: H. Van Deventer; L. A. Hawkins. il diag plan Ind Management 66:253-64, 327-34; 67: 129-35, 303-8, 343-7 N-D '23, Mr, My-Je '24
Government requirements and professional standards. G: C. Whipple. Eng & Contr (W W) 61:1297-1300 Je 11 '24; Same cond. Eng N 92:924 My 29 '24
How can a trade association bring about standardization in an industry? H. P. Baker. Paper Tr J 77:27-8+ N 22 '23
Important project of standardizing machine elements. A. E. Norton. Mech Eng 46:699-700 N '24
Industrial standardization. Paper Tr J 79:56 Jl 24 '24
Industrial standardization; abstracts. C. le Maistre. Engineer 139:129 Ja 30 '25; Chem Age (Lond) 12:152-3 F 14 '25
Industrial standardization progress. R. J. Durley. Can Eng 47:569-71 D 2 '24
Manufacturers' viewpoint on standardization. A. H. Timmerman. Min Cong J 11:444-5 S '25
Die normung in Deutschland. F. Neuhaus. Zeit Ver Deutsch Ing 68:1065-70 O 11 '24; Abstract. Engineering 118:149-51 Jl 25 '24; Excerpts. Soc Auto Eng J 16:144-5 F '25
Organizing to prevent materials waste. C. B. Auel. il Management & Adm 7:669-74 Je '24
Place of standardization in modern life. A. W. Whitney. Am Inst E E J 43:1154-7 D '24
Preferred numbers. C. C. Stutz. Mech Eng 46:429-30 Jl '24; Discussion. 46:495-7 Ag '24
Promotion of standards. R. M. Hudson. Monthly Labor R 20:756-9 Ap '25
Relation of intra-company to general standardization. E. A. Johnston and O. B. Zimmerman. Soc Auto Eng J 14:323-6 Mr '24; Same cond. Mech Eng 46:436 Jl '24
Significance of standards for materials. C. L. Warwick. Ry R 76:1079-80 Je 13 '25
Standardization an asset to Germany. Iron Tr R 74:167 Ja 10 '24
Standardisation and simplification with special reference to the saving of waste in industry. C. le Maistre. Engineering 120:397-9 S 25 '25
Standardization and the executive. G: M. Meyncke. Mach 31:273-4 D '24
Standardization means economy. A. W. Whitney. Elec W 83:33-5 Ja 5 '24; Same cond. Am Inst E E J 43:77-8 Ja '24; Excerpts. Am Gas J 120:159-60 F 23 '24

STANDARDIZATION—*Continued*
Standardization of product aids handling. E. T. Bennington. il Iron Age 115:344-6 Ja 29 '25
Standardization——past and future. W. F. Edwards. Textile World 68:2157-8 O 10 '25
Standardization progressing in many lines. Sanitary & Heat Eng 102:147-8 S 5 '24
Standardization, simplification, and improvement of oil drilling methods and equipment. Am Pet Inst Bul 4:89-119 D 31 '23; Abstract. Nat Pet N 15:33K-O D 19 '23
Standardization versus individuality. L. D. Burlingame. Mech Eng 46:529-30+ S '24
Standardization work of 1924. F. J. Schlink. Am Mach 61:87 Jl 17 '24
Standards must be sold to industry. E. C. Peck. Elec W 84:1079-80 N 15 '24
Time study and standardization. G. C. Brown. Management & Adm 7:431-6 Ap '24
Tremendous saving by standardization. F. C. Brown. Iron Age 115:202 Ja 15 '25
Use of preferred numbers. F. J. Schlink. Soc Auto Eng J 16:140h-2 F '25
Utilization and prevention of waste. C. B. Auel. Soc Auto Eng J 15:407-11 N '24; Same cond. Am Mach 61:681-4 O 30 '24; Discussion. Soc Auto Eng J 15:383-4 N '24
Various viewpoints of standardization. A. H. Timmerman. Am Mach 62:805-7 My 21 '25; Excerpts. Automotive Ind 52:853-4 My 14 '25; Mach 31:821 Je '25
What railroads have done for standardization. A. G. Follette. Ry R 77:290-1 Ag 22 '25
Wrinkles in South American trade to be ironed out. Ptr Ink 129:33-4 D 18 '24

See also Electric standards; Simplification in industry; Standards, Engineering; *also* subdivision Standards under special subjects, e.g. Alloys; Automobiles; Electric motors; Gearing; Heating; Lumber; Screw threads; *also* American engineering standards committee

STANDARDS
How shall the benefits of A.S.T.M. standardization be secured to the small user? T: H. Wiggin. Am Soc T M Pro 24 pt 2:1097-1100 '24; Same. Ry R 75:50-2 Jl 12 '24; Discussion. Am Soc T M Pro 24 pt 2:1101-12 '24

STANDARDS, Bureau of. See United States—Standards, Bureau of

STANDARDS, Engineering
Buying of small components. Cassier's Ind Management 12:421-2 Ag '25
Engineering and industrial standardization. Mech Eng 46:302-3 My '24
Engineering standards. E. Buckingham. Mech Eng 47:555-6; Discussion. 556-9 Jl '25
European engineering standards issued in 1923. Am Mach 60:538 Ap 10 '24
Lieferungsvorschriften, normen und grosszahlforschung. K. Daeves. Stahl & Eisen 43:1555-6 D 20 '23
Standardization in Japan. diags Mech Eng 47:858 O '25
Standardization in the machine-shop industries. C. J. Oxford. Mech Eng 47:772-3 S '25

See also Electric standards; Standardization; Weights and measures; *also* subdivision Standards and Standardization under special subjects, e. g. Automobiles—Standards; Bolts and nuts—Standards; Building—Standards; Gas—Standards; Gearing—Standards; Heating—Standards; Machine tools—Standardization; Screw threads—Standards; *also* American engineering standards committee; United States—Standards, Bureau of

Dictionaries

Two new national services to industry; the work of the Federal specifications board and the dictionary of specifications. G: K. Burgess. il Am Mach 60:417-19 Mr 20 '24

STANDARDS of length
La mesure industrielle des longueurs; étalons de mesures et systèmes à tolérances. H. Stroh. il diags Génie Civil 84:594-7, 615-17 Je 21-28 '24
Precise length measurements; abstract. J. S. Sears, jr. Mech Eng 46:49-50 Ja '24
Relation between inches and millimeters. H. W. Bearce. Am Mach 59:764 N 22 '23; Discussion. 60:145-6 Ja 24 '24
Shop measurements; English and metric standards of length and their interrelation. E. Buckingham. Mech Eng 46:535-8 S '24

STANDPIPES
Lambton water works system. R. O. Wynne-Roberts. il Can Eng 47:589-90 D 9 '24
Pitting in two steel standpipes near St Louis, Mo. W. V. Weir. il Eng N 94:281 F 12 '25
Town solves fire flow problem with standpipe. H. F. Huy. chart Eng & Contr (W W) 64:94-6 Jl 8 '25

See also Water storage

Painting

Paint causes tastes odor and troubles. W. S. Mahile. Eng & Contr (W W) 62:1089 N 12 '24

STANDPIPES, Concrete
Waterproofing Waltham's (Mass.) concrete standpipe. G: C. Brehm. il N E Water Works Assn J 38:297-300 S '24

STANDPIPES (gas works)
Apparatus for the prevention of stand pipe stoppages. J. S. Rider. diags Am Gas J 121:754 Ag 16 '24
Catechism of central station gas engineering in the United States. diag Am Gas J 120: 247-50 Mr 15 '24

STANFORD, Leland
Leland Stanford said "the big thing is to do it." System 47:316-17 Mr '25

STANNERIES. See Tin mines and mining

STARBUCK, R. M.
Starbuck on Starbuck. por Dom Eng 110:62-3 Ja 10 '25

STARCH
Absorption of water by dried films of boiled starch. F: D. Farrow and E. Swan. bibliog diags Textile Inst J 14:T465-74 D '23
Chemistry at the size kettle. H. Seydel and A. H. Reiners. Textile World 67:2986+ My 2 '25; Same. Am Dyestuff Rep 14:282-4+ My '25; Same. Textile Col 47:298-301 My '25
Colorimetric determination of carbohydrates in plants by the picric acid reduction method; the determination of starch and other reserve polysaccharides. W. Thomas. Am Chem Soc J 46:1670-5 Jl '24
Composition of starch iodide. H. D. Murray. Chem Soc J 127:1288-94 Je '25
Dust explosion causes havoc in starch plant. il Safety Eng 47:32-3 Ja '24; Nat Safety N 9:12 F '24
Flow of starch paste through capillary tubes. F: D. Farrow and G: M. Lowe. diags Textile Inst J 14:T414-40 N '23
Fluidity or viscosity of starches. W. A. Nivling. Textile World 65:2999+; Discussion. 2969+ My 3 '24
Halogen compounds of starch; abstract. M. Bergmann and S. Ludewig. Soc Dyers & Col J 40:379-80 N '24
Hydrolysis of starch by means of oxygenated water. Am Dyestuff Rep 14:377-8 Je 1 '25
Making soluble starch. Am Dyestuff Rep 14: 66-7 Ja 26 '25
Plasticity of starch paste. C. Bergquist. J Phys Chem 29:1264-5 O '25
Safe methods of boiling starch. Am Dyestuff Rep 14:723-4 N 2 '25
Starch. J. Woodman. Textile Col 46:717-19, 783-7; 47:232-4, 640-1, 736-7, 805-6 N-D '24, Ap, O-D '25 (to be cont)
Starch dust explosion at Pekin, Illinois. D: J. Price. il diag plan W Soc E J 29:305-20 Ag '24
Starch dust explosion at Pekin, Illinois. D: J. Price, H. R. Brown and P. W. Edwards. il diags plan Chem & Met Eng 30:579-84 Ap 14 '24
Starch dust explosions. G. E. Chamberlain. Chem Age 32:95-7 F '24
Starch in sorghum sirup. J. J. Willaman and F. R. Davison. Ind & Eng Chem 16:609-10 Je '24
Starch-iodine reaction. N. R. Dhar. J Phys Chem 28:125-30 F '24

STARCH—*Continued*
Starch-iodine reaction; abstract. K. C. Sen. Soc Dyers & Col J 40:384 N '24
Studies on starch; the constitution of polymerised amylose, amylopectin, and their derivatives. A. R. Ling and D. R. Nanji. Chem Soc J 127:629-36 Mr '25
Studies on starch; the nature and the genesis of the stable dextrin and of the maltodextrins. A. R. Ling and D. R. Nanji. Chem Soc J 127:636-51 Mr '25
Studies on starch; the nature of polymerised amylose and of amylopectin. A. R. Ling and D. R. Nanji. Chem Soc J 123:2666-88 O '23
Studies on starch; the nature of the amylohemicellulose constituent of certain starches. A. R. Ling and D. R. Nanji. Chem Soc J 127:652-6 Mr '25
See also Dextrin

Analysis
Determination of starch in barley and wheat. A. R. Ling, D. R. Nanji and W. J. Harper. Soc Chem Ind J (Abstracts) 43:991 D 12 '24

Testing
Elasticity and tensile strength of starch. S. M. Neale. bibliog il diag Textile Inst J 15: T443-52 S '24; Abstract. Soc Dyers & Col J 40:419-20 D '24

STARK effect
Broadening of lines in arc spectra and the Stark effect. H. Lowery. Philos Mag 6th ser 49:1176-83, pl 12 Je '25
Observations on the Stark effect in hydrogen and helium. J. S. Foster. diags Phys R 23: 667-84 Je '24

STARS
Are there other habitable worlds? recent theories of energy in the stars. H: N. Russell. il Sci Am 132:315 My '25
Nova Pictoris—a temporary star. H: N. Russell. il Sci Am 133:304 N '25
Star called "wonderful." H: N. Russell. il Sci Am 132:385-6 Je '25
Theory of stellar evolution modified. H: N. Russell. Sci Am 133:160, 241 S-O '25

Measurement
Size of stars. Sci Am 130:175 Mr '24

STARTING devices
See Airplane engines—Starting devices; Automobiles—Starting devices; Electric motors—Starting devices; Gas and oil engines—Starting devices

STATE advertising
Florida bill would create state advertising board. Ptr Ink 131:102 My 7 '25
Florida idea of community advertising. J. Thomas. Ptr Ink 132:73-4+ Jl 2 '25
Governor of Maine directs an advertising campaign. B. A. Grimes. Ptr Ink 132:49-50 Jl 16 '25
Idaho takes the advertising bit in its teeth. E. B. Weiss. Ptr Ink 133:85-6 O 15 '25
King cotton made to yield heavier tribute in Texas. G. A. Nichols. Ptr Ink 131:73-4+ Je 25 '25

STATE bonds
Course of prices of New York state and city securities during the year 1924. Comm & Fin Chr 120:173 Ja 10 '25
Elihu Root and Ex-secretary of war Stimson opposed to $100,000,000 bond plan favored by Gov. Smith. Comm & Fin Chr 120:2894-5 Je 6 '25
Issues of state and municipal bonds in the United States in 1923. Econ W n s 27:122 Ja 26 '24
New issues of state and municipal bonds in the United States in 1924. Econ W n s 29:50-1 Ja 10 '25
Redemption and retirement of state and municipal bonds during 1924—the extent of the totals. Comm & Fin Chr 120:10-12 sec 2 Je 27 '25
State and municipal bonds. W: L. Raymond. 388p Financial pub. co., Boston '23

STATE buildings
Centennial memorial building, Springfield, Illinois. H. M. G. Garden. il Arch Forum 40: 201-4, pl 65-72 My '24
Office building for the state of Virginia, Richmond, Va., views and plans. Am Arch 127:pl 18-20 Ja 28 '25
Virginia builds office building for state departments. il diags plan Eng N 93:252-5 Ag 14 '24
See also Capitol buildings

STATE employees
Classification of positions and salaries in the service of the state of Pennsylvania. R: H. Lansburgh. Ann Am Acad 113:261-8 My '24

Salaries
How shall salaries of state employes be fixed? C. L. King. Ann Am Acad 113:202-6 My '24
Professional service and salaries in public welfare departments. P. Klein. Ann Am Acad 113:226-34 My '24

STATE finance
Custody of state funds. M. L. Faust. 176p National inst. of public administration, New York '25
Evaluation of the system of central financial control of research in state governments. L. D. White. bibliogs chart Nat Research Council Bul v 9, pt 2:1-134 D '24; Summary. (Reprint and Circ. Ser 61) 16p 25c National research council, 1701 Massachusetts av., Washington, D.C. '25
Facts of the billion and a half dollar states' debt. E: C. Delafield. Annalist 25:836 Je 22 '25
Financial statistics of several Southern state governments. Manuf Rec 87:83-4 Ja 8 '25
Increase of state bonded indebtedness in the United States. W: P. Helm, jr. Econ W n s 28:593-4 O 25 '24
Public works as depression cure. B: Anderson, jr. Eng & Contr (R & S) 64:327-8 Ag 5 '25
Saving $40,000 a day in Pennsylvania. G. Pinchot. Nation's Business 12:19-20 My '24; Discussion. C: A. Snyder. 12:52+ Jl '24
State and municipal borrowing in relation to the business cycle. B: M. Anderson. Chase Econ Bul 5:1-18 Je 10 '25; Excerpts. Comm & Fin Chr 120:3141 Je 20 '25; Econ W n s 29:845-6 Je 13 '25
State and municipal compendium of the Commercial and financial chronicle; New England, Middle and Central states (formerly State and city section). Comm & Fin Chr 120:5-208 sec 2 Je 27 '25 [published annually in June]
State and municipal compendium of the Commercial and financial chronicle; Western, Pacific and Southern states, territories and possessions (formerly State and city section). Comm & Fin Chr 119:1-247 sec 2 D 27 '24 [published annually in December]
See also Budget, State; State bonds

STATE geologists. See Geologists, State

STATE governments
Illinois on a business basis; the civil administrative code. F. O. Lowden. Nation's Business 12:17-18 My '24
Reorganizing state government. W. F. Dodd. Ann Am Acad 113:161-72 My '24

STATE institutions. See Institutions, Public

STATE insurance. See Insurance, State and compulsory

STATE names
Importance of official state abbreviations in addressing mail. Ptr Ink 126:41-2+ F 7 '24

STATE ownership. See Government ownership

STATE purchasing. See Purchasing, State

STATE regulation of industry. See Government regulation of industry

STATE rights
Memorial day address of President Coolidge. Comm & Fin Chr 120:2889-91; Discussion. 2865-6 Je 6 '25

STATE rights—*Continued*
New American revolution in usurpation of state rights by federal government—cites fifteenth and eighteenth amendments. N. M. Butler. Comm & Fin Chr 119:1911-12 O 25 '24

STATEMENTS, Financial. See Financial statements

STATEMENTS, Profit and loss. See Profit and loss statements

STATEN ISLAND

Railroads

Baltimore & Ohio begins electric operation on Staten Island. W. D. Bearce. il plan Ry R 77:315-16 Ag 29 '25

Electric rapid transit inaugurated on Staten Island. il map Elec Ry J 66:3-6 Jl 4 '25

Staten Island electrification. il map Ry Age 79:31-5 Jl 4 '25

Staten Island rapid transit company's power supply. C. A. Butcher. il map Aera 14:258-70 S '25; Same cond. Ry R 77:51-6 Jl 11 '25; Same cond. Elec Ry J 66:53-6 Jl 11 '25

Rapid transit

Municipal line in Staten Island needs $987,500. Elec Ry J 63:830 My 24 '24

Taxpayers lose heavily on New York trolley buses. Aera 12:779-83 D '23

10.27 cents per passenger is cost on Staten Island lines. Elec Ry J 64:862 N 15 '24

Trackless trolley experience on Staten Island. Elec Ry J 63:540 Ap 5 '24

STATEN ISLAND—New Jersey bridge (proposed)

Staten Island-New Jersey crossing study made. Eng N 92:504 Mr 20 '24

STATES, Federal aid to. See Federal aid to states

STATES import and export corporation

Appellate division construes profits and commissions form. J. W. Zeller. Spectator 113: 45+ N 27 '24

STATIC. See Radio communication—Interference

STATIC electricity. See Electricity, Static

STATICS

Statics, including hydrostatics and the elements of the theory of elasticity. H. Lamb. 2d ed. 357p University press, Cambridge, Eng. '24

See also Dynamics; Elasticity; Electrostatics; Equilibrium; Graphic statics; Hydrostatics; Strains and stresses

STATIONERY

Advance of the retail stationer. il Am Exporter 94:27-8+ Ap '24

Advertising

Graphology is hired as a writing paper salesman. Ptr Ink 128:49-50 S 25 '24

STATISTICAL departments

Developing the statistical department. H. D. Gidney. Management & Adm 7:19-20 Ja '24

Organization of a statistical department. M. B. Folsom. Harvard Business R 2:178-93 Ja '24

STATISTICAL libraries

Statistical library a necessity. A. Y. Barrow. Special Lib 16:110-11 Ap '25

STATISTICAL methods

Asymptotic frequency distribution of the arithmetic means of *n* correlated observations for very great values of *n*. A. A. Tschuprow. Roy Statis Soc J 88:91-104 Ja '25

Conditions under which χ^2 measures the discrepancy between observation and hypothesis. R. A. Fisher. bibliog Roy Statis Soc J 87:442-50 My '24

Cost of living statistics of U. S. Bureau of labor statistics and the National industrial conference board; comparison of methods used. E. B. Carr. Am Statis Assn J 19: 484-507 D '24

Elementary statistical methods. W: G. Sutcliffe. 338p McGraw-Hill '25

Enquiry by sample: an experiment and its results. J: Hilton. Roy Statis Soc J 87:544-61; Discussion. 562-70 Jl '24

Fluctuating statistical standards of public utility operations. H. B. Vanderblue and W: L. Crum. charts J Land & Pub Util Econ 1:138-51 Ap '25

Gaging a complicated situation by a simple graphic chart; measure of flow of work of Onaway paper company. charts Harvard Business R 3:475-80 Jl '25

Grosszahlforschung. K. Daeves. Stahl & Eisen 45:79-86, 109-14 Ja 15-22 '25

Handbook of mathematical statistics. H: L: Rietz and others. 221p [bibliog. p. 195-208] Houghton '24

Introduction to statistical analysis. G: G. Chambers. 257p F. S. Crofts & co., New York '25

Introduction to statistical methods. H. Secrist. rev. and enl. ed. 584p Macmillan '25

Introduction to the methods of economic statistics. W: L. Crum and A. C. Patton. 493p [bibliog. p. 477-9] Shaw '25

Lieferungsvorschriften, normen und grosszahlforschung. K. Daeves. Stahl & Eisen 43: 1555-6 D 20 '23

Moving secular trend and moving integration. L. W. Hall. Am Statis Assn J 20:13-24 Mr '25

Primer of graphics and statistics for teachers. H. Rugg. 142p [bibliog. p. 133-9] Houghton '25

Principles and methods of statistics. R. E. Chaddock. bibliog 471p Houghton '25

Principles underlying the isolation of cycles and trends. W. I. King. Am Statis Assn J 19:468-75 D '24

Refinement of time series. O. Ingraham. Am Statis Assn J 20:231-7 Je '25

Simplified method of determining what contrasts between two percentage distributions are significant. H. Hart. Am Statis Assn J 19:65-70 Mr '24

Statistical approach to the problem of determination of allowable loadings for purification processes. A. Wolman. bibliog Am Water Works Assn J 13:232-6 F '25

Statistical basis for industrial control. K. Daeves. diags Iron Age 113:1441-3 My 15 '24

Statistical method. H. Jerome. 395p Harper '24

Statistical methods applied to economics and business. F: C. Mills. 604p [bibliog. p. 589-94] Holt '24

Statistics and economic theory. W. M. Persons. R Econ Statis 7:179-97 Jl '25

Untried methods of representing frequency. F. Y. Edgeworth. Roy Statis Soc J 87:571-94 Jl '24

See also Correlation (statistics); Growth curves; Interpolation; Mathematics—Tables, calculations, etc.; Seasonal variation (statistics)

Time unit

The week or month as an intermediate time-unit for statistical purposes. N. Shaw. Roy Statis Soc J 88:489-501; Discussion. 501-12 Jl '25

STATISTICAL research

Librarian and statistical research. H. Jerome. Special Lib 16:83-4 Mr '25

The library; a necessary adjunct to statistical work. G. E. Marion. Special Lib 15:104-7 My '24

STATISTICIANS

Standards for American vital statisticians. Am Statis Assn J 19:81-2 Mr '24

Supervising or staff statistician. D. R. Belcher. Am Statis Assn J 19:61-5 Mr '24

STATISTICS

Elements of statistics. F: C. Kent. 178p Mc Graw-Hill '24

Fundamentals of statistics. L: L. Thurstone. 237p Macmillan '25

Manual of problems and tables in statistics. F: C. Mills and D. H. Davenport. 203p Holt '25

STATISTICS—*Continued*
Recorded experience. 60p Statistical service division, Library bur., New York '24
Relation of the United States to international statistics. W. F. Willcox. Am Statis Assn J 19:348-61 S '24
Some fundamental concepts of statistics. W. M. Persons. Am Statis Assn J 19:1-8 Mr '24
Statistics and economic theory. W. M. Persons. R Econ Statis 7:179-97 Jl '25
Statistics in the service of insurance administration. E. W. Kopf. Econ W n s 28: 777-80 N 29 '24
Use of statistics in the determination of bank policy. W. F. Gephart. Econ W n s 27:112-15 Ja 26 '24

See also Business charts; Business statistics; Commercial statistics; Financial statistics; Graphic methods; Index numbers; Industrial statistics; Seasonal variation (statistics); *also* subdivision Statistics under various subjects, e.g. Coal trade—Statistics; Electric plants (central stations)—Statistics; Labor and laboring classes—Statistics; Production—Statistics; Railroads—Statistics; Rubber industry and trade—Statistics; *also* International statistical institute; United States—Census, Bureau of

Bibliography

Recent literature. Published in quarterly numbers of Journal of the American statistical association
Reviews of statistical and economic books. Published in Journal of the Royal statistical society
Selected list of texts in statistics. Am Statis Assn J 19:400-4 S '24
Statistical and economic articles in recent periodicals. Published in Journal of the Royal statistical society

Study and teaching

Tables of statistical data for the use of students of mathematical and economic statistics. J. W. Glover and H. C. Carver. 53p G. Wahr, Ann Arbor, Mich. '23

STATUES
Greek statue from Rome. Am Inst Arch J 12: 63, 81 F '24

See also Bronzes; Sculpture

STATUES, Concrete
Concrete sculpture at University of Washington. il Concrete 26:62-3 F '25

STAUNTON, Virginia

Water supply

New gravity water supply for Staunton. L. H. Williamson. Eng N 94:803 My 14 '25; Discussion. 95:113-14 Jl 16 '25
Staunton water supply project. W. F. Day. il Pub Works 56:88-90 Mr '25

STAYBOLTS
Electric steel for staybolt use. T: S. Wheelwright. Iron Age 116:1243 N 5 '25; Same. Ry R 77:815-16 N 28 '25
Improved dolly bar for holding on flexible staybolts. diags Ry Mech Eng 99:177 Mr '25
Method of renewing staybolts. Ry R 77:307 Ag 29 '25

STEALING. See Theft

STEAM
Additional steam lines and plant of the New York steam corporation; distribution of steam for heating and power. maps Power 60:807-8 N 18 '24
Atlanta sells steam from incinerator to railway and power co. Eng N 93:873 N 27 '24; Same. Elec W 84:1164 N 29 '24
Back to first principles. T. W. Reynolds. diags Heat & Ven 21:55-7 Je '24
Die baumaschine mit dampfantrieb. F. Berndt. il Zeit Ver Deutsch Ing 68:702-4 Jl 5 '24
Cutting steam waste in wet departments. M. G. Farrell. Textile World 67:71+ Ja 3 '25
Dampfgewinnung für gaserzeuger unter ausnutzung des ofenkühlwassers. R. Hennecke. Stahl & Eisen 45:1602-4 S 17 '25
La distribution de la vapeur à pression constante; réglage automatique de la pression. il diags Génie Civil 87:271-3 S 26 '25
Economy in the generation and utilization of steam. C: F. Wade. Soc Chem Ind J (Chem & Ind) 43:1098-1100, 1204-7 N 7, D 5 '24
Eigenschaften und verwertung von hoch- und höchstdruckdampf. E. Josse. il diags Zeit Ver Deutsch Ing 68:65-71 Ja 26 '24
Fundamental demonstration of cooling by steam. H. L. Horning. diag Soc Auto Eng J 17:292-3 S '25
Generation and utilization of steam in the iron and steel industry. J: A. Hunter. diags Mech Eng 46:325-8+ Je '24; Same cond. Power 59:921-2 Je 3 '24
Heat-treating metal with steam. Power 58: 815, 1038 N 20, D 25 '23
How much difference does the vacuum make. Power 62:423 S 15 '25
How much does steam weigh? Power 59:68 Ja 8 '24
Les limites des cycles utilisables dans la production de force motrice par la vapeur. G. Delanghe. diags Génie Civil 87:305-8, 326-8 O 10-17 '25
Pound of water. Power 61:470 Mr 24 '25
Process steam as a power plant product. M. Sampson. Textile World 65:81-2+ Ja 5 '24
Properties of steam. Engineering 117:579-80 My 2 '24; Abstract. Mech Eng 46:426-7 Jl '24
Properties of steam. H. L. Callendar. Engineering 120:231-2 Ag 21 '25
Quality of steam; the importance of the production of clean, dry steam. E. W. Dickinson. Elec R (Lond) 97:650-1 O 23 '25
Specific heat of steam; abstract. H. L. Callender. Mech Eng 46:712 N '24
Steam distribution, pumping extravagance and practical suggestions for improvement. F. C. Farnsworth. Paper Tr J 79:43-7 Jl 24 '24
Steam—economy of generation and utilization. C. A. Schlegel. Gas Age 55:293-5+, 333-6 F 28-Mr 7 '25
Steam in scouring. Textile World 64:2881+ N 10 '23; Same. Am Dyestuff Rep 13:108 F 11 '24
Steam-operated kitchen equipment for hotels, restaurants, hospitals, and other institutions. E. W. Riesbeck. il diags plan Dom Eng 106:20-4 F 23; 20-4 Mr 8 '24
Steam produces novel lighting effects. il Power Pl Eng 28:513 My 1 '24
Steam spray for cleaning running gear. il Bus Transportation 4:350 Jl '25
Steam survey of a manufactured gas plant. A. G. Hall. il Gas Age 56:279-80+, 315-18 Ag 29-S 5 '25
Steam used for drying paper. J. O. Ross. Paper Tr J 81:63 S 3 '25
La vapeur séche et les moyens de la produire dans les générateurs à haute vaporisation. Bussac. diags Soc Ing Civils Bul 77:262-78 Ap '24

See also Boilers; Coke—Gasification in steam; Condensers (steam); Evaporators; Exhaust steam; Feed water purification; Gas retorts—Steaming; Steam engines; Steam flow; Steam heating; Steam pipes; Steam plants; Steam turbines; Superheated steam; Superpressure steam; Supersaturated steam; Thermodynamics

Cost

Diagram for fuel cost of steam. W. L. Lundy. Power 60:835 N 25 '24
Electric power as a byproduct of process steam generation. T. Maynz. Chem & Met Eng 32:5-9 Ja 5 '25
Power and process steam from byproduct producer gas. C. H. S. Tupholme. il diags plans Chem & Met Eng 31:300-3 Ag 25 '24
Steam and power; important factors of the pulp and paper mill. H. S. Taylor. Paper 34:241-3 My 29 '24

STEAM—*Continued*

Reheating

Possible methods of reheating steam. J. R. McDermet. Power 60:1014-16 D 23 '24

Reheating in central stations. W. J. Wohlenberg. Power 58:899-901 D 4 '23; Same. Mech Eng 46:259-62 My '24

See also Steam turbines—Resuperheating

Tables, calculations, etc.

Die bestimmung der zähigkeit des wasserdampfes. H. Speyerer. diags Zeit Ver Deutsch Ing 69:747-52 My 30 '25

Binary cycles using mercury and steam. A. M. Greene, jr. diags Mech Eng 46:142-4 Mr '24

Calculating expansion and aligning steam pipes to large turbines. il plans Power 62: 594-7 O 20 '25

Calorimetric method of surveying the behavior of steam. N. S. Osborne. Mech Eng 46:88-90+ F '24

Computing the steam consumption from the temperature of the return water. A. F. Sheehan. Power 61:915; 62:64 Je 9, Jl 14 '25

Convenient steam charts. L. H. Jones. Power 62:490-1 S 29 '25

Effect of excessive or insufficient radiator surface on steam consumption. Power 60:406 S 9 '24

Effect of increased pressure on steam consumption. Power 59:108 Ja 15 '24

Electric power as a byproduct of process steam generation. T. Maynz. Chem & Met Eng 32:5-9 Ja 5 '25

Enlarged Callendar steam tables (Fahrenheit units). H. L. Callendar. 80p Longmans '24

Estimating the temperature of steam. Power 60:400 S 9 '24

L'état actuel des recherches relatives à l'étude des propriétés physiques de la vapeur d'eau. C: Roszak. Soc Ing Civils Bul 78:570-83 Jl '25

Falling steam. diag Power 61:232 F 10 '25

Figuring steam requirements for combined bleeder-mixed-pressure turbine. J. Y. Dahlstrand. il diags Power 62:42-5 Jl 14 '25

Geradliniges wasserdampf-diagramm für normal- und hochdruckgebiet. M. Seiliger. diag Zeit Ver Deutsch Ing 68:25-7 Ja 12 '24

Heat problems in a sulphite mill. A. H. Lundberg. Paper Tr J 78:41-5 My 29 '24

High pressure, reheating, and regenerating for steam power plants. C. F. Hirshfeld and F. O. Ellenwood. Sibley J 38:28-35 F '24; Same cond. Mech Eng 46:179-83+ Ap '24; Same cond. Power Pl Eng 27:1244-8 D 15 '23; Same cond. Power 58:893-5 D 4 '23

Limitation of steam consumption in chemical works. C. F. Holmboe. Soc Chem Ind J (Chem & Ind) 43:911-13 S 12 '24

Measuring oil burner steam consumption. F. A. Rothwell. diags Power Pl Eng 28:175-6 F 1 '24

Neue wasserdampfformeln. M. Seiliger. Zeit Ver Deutsch Ing 68:1263-70 D 6 '24

New Mollier diagram for water vapor; abstract. A. Bantlin. Mech Eng 46:712 N '24

Nomogram for calculating steam piping from the thermodynamic point of view; abstract. A. C. Raes. Mech Eng 47:508 Je '25

Nomogram for mean effective pressure. L. M. Porter. diag Power 61:652-3 Ap 28 '25

One way to dodge entropy. Power 60:704 O 28 '24

Operating calculations and instructions for small-plant condensers. G. E. Gaster. diags Power 61:136-8 Ja 27 '25

Pressure, superheat, steam extraction and reheating as affecting power plant economy. E. Berg. diags J Fr Inst 197:727-39 Je '24; Same abr. Power Pl Eng 28:592-4 Je 1 '24

Pressures in a 36-mile steam column. Power 60:654 O 21 '24

Progress in steam research. il diags Mech Eng 46:81-7+ F '24

Progress in steam research. Mech Eng 47: 103-4 F '25; Discussion. J. H. Keenan. 47: 174 Mr '25

Proportioning water-works surface condensers. W. R. Freeman. Power 60:529-31 S 30 '24

Simplifying steam-discharge computations. S. D. Barclay. Power 60:613-14 O 14 '24

Specific total-heat of low-pressure steam. C. H. Berry. Power 61:410-11 Mr 17 '25

Standards of comparison in connection with the thermal efficiency of steam engines. H. R. Sankey. Engineering 118:818-20 D 12 '24; Abstract. Engineer 138:689-90 D 19 '24; Excerpt. Power Pl Eng 29:202-3 F 1 '25; Discussion. Engineering 118:835, 866-7 D 19-26 '24

Steam ejector for pumping low pressure steam. M. C. Ernsberger. diag Sibley J 39: 357-8 Je '25

Steam research promises much for power-plant engineers. P. W. Swain. Power 60: 200-2 Ag 5 '24

Steam table for low pressures; latent heat expressed in metric units. W. L. Badger. Chem & Met Eng 32:197 F 2 '25

Steam tables differ widely. Power 61:64 Ja 13 '25

Steam used by surface-condenser auxiliaries. J: D. Morgan. Power Pl Eng 28:1135-6 N 15 '24; Abstract. Mech Eng 47:49 Ja '25

Straight-line water-vapor diagram for the standard and high-pressure ranges. M. Seiliger. Mech Eng 46:212-13 Ap '24

Suggestions for the steam-table makers. M. H. Sabine. Power 61:387-8 Mr 10 '25

Superheated steam insulation pays; cost tables. R. H. Heilman. Chem & Met Eng 31:934-6 D 15 '24

Surface-condenser operation. P. H. Jeynes. diag Power 62:515-17 O 6 '25

Water heating and steam pipe chart. J: H. Gibson. Heat & Ven 22:54-6 Ag '25

Water rates and steam consumption of auxiliaries. E. A. Stevens, jr. and H. E. Brelsford. Marine Eng 29:427-30, 492-6, 547-50, 611-16, 676-81; 30:52-4+ Jl-N '24, Ja '25

See also Steam flow; Steam heating—Tables, calculations, etc.; Steam turbines—Tables, calculations, etc.

STEAM, Exhaust. See Exhaust steam

STEAM, Natural

Geysers offer power possibilities. il Elec W 86:963-4 N 7 '25

Larderello natural steam power plant. G. Conti. Soc Chem Ind J (Chem & Ind) 43: 739-41 Jl 18 '24; Abstract. Power 60:251-2 Ag 12 '24

New Niagara of subterranean power; Alexander valley, California. U. V. Wilcox. il Sci Am 132:24-5 Ja '25

Power from the earth's heat. T: T. Read. il Mech Eng 46:446-8 Ag '24

Recent developments in the utilization of the earth's heat. il diag Mech Eng 46:448-9 Ag '24

Utilization of volcanic steam in Italy. Sci Am 131:97 Ag '24

STEAM, Superheated. See Superheated steam

STEAM accumulators

Fireless locomotive saves fuel. C. E. Colburn. il Blast F & Steel Pl 12:Material handling sec 16 Ap '24

Heat accumulators. A. G. Christie. Power 61: 647 Ap 28 '25

Principle of steam accumulators. Paper 34: 805 Ag 21 '24

Ruths steam accumulator. J. Ruths. il diag Paper 34:1138-42 O 9 '24; Same cond. Engineering 118:68-9 Jl 11 '24

Ruths steam accumulator and its applications. A. J. T. Taylor. il diags Tech Assn Pa ser 8:69-78 '25; Same. Paper Tr J 80:49-58 Ja 29 '25; Abstract. Can Eng 47:629-30, 631-3 D 23 '24

Ruths steam accumulator; application to sugar refinery and steel works analyzed. A. J. T. Taylor and F. A. Wettstein. il diags Mech Eng 47:619-23 Ag '25

Steam accumulation. S. Hopkins. diags Soc Chem Ind J 44:69-74 F 20 '25

Steam accumulator. F: Münzinger. diags Mech Eng 47:130-1 F '25

STEAM accumulators—*Continued*
Steam accumulators. O. H. Smith. diags Am Gas Assn Technical sec v 6:820-1 '24
Storing steam in hot water. diag Power 60: 550 S 30 '24
Thermal storage. C. E. Stromeyer. Engineer 136:582-3 N 30 '23
Workings of Ruths' steam accumulator. diags Paper 34:662-4 Jl 31 '24; Soc Chem Ind J (Chem & Ind) 43:764-5 Jl 25 '24

STEAM-air mixture
Superheated air is put into H.R.T. boiler below water line. diag Power Pl Eng 29:451-2 Ap 15 '25

STEAM automobiles. See Automobiles, Steam

STEAM boilers. See Boilers

STEAM cars. See Motor cars (railroad)—Steam

STEAM conduits
Pipe insulation for lines underground. il diags Power Pl Eng 28:189-90 F 1 '24
Steam conduit system for the Dupont horticultural buildings. F. L. Cason. il diags Heat & Ven 21:61-3 F '24
Tight longitudinal joints for split-tile pipe conduits. C: H. Day. diag Heat & Ven 22: 93 S '25

STEAM ejectors
Steam ejector for pumping low pressure steam. M. C. Ernsberger. diag Sibley J 39: 357-8 Je '25

STEAM engineering
Elements of steam and gas power engineering. A. A. Potter and J. P. Calderwood. 2d ed. 336p McGraw-Hill '24
Roper's questions and answers for stationary and marine engineers and electricians. S. Roper. 7th ed., enl. 352p McKay '25
Ten common fallacies. Power 60:150 Jl 22 '24
Ten more fallacies. Power 60:228 Ag 5 '24
Die wirtschaftliche fortleitung und verteilung von dampf auf grosse entfernungen. K. Hencky. diags Zeit Ver Deutsch Ing 69:492-8 Ap 18 '25

See also Boiler plants; Evaporators; Marine engineering; Power; Steam engines; Steam heating; Steam plants; Steam turbines; Steamboats; Superheated steam

Examinations

Could you answer these questions? Power 58: 1025 D 25 '23

Terminology

Units of evaporation and capacity. Power 62: 147, 580 Jl 28, O 13 '25

STEAM engines
Carnot and Rankine cycles. Engineer 138: 699-700 D 19 '24
Catechism of central station gas engineering in the United States. diags Am Gas J 120: 553-6 Je 14 '24
Control of power production. C: L. Hubbard. il diags Factory 31:602-5+, 750-4+ N-D '23
Early Corliss pumping engine. Power 58:741-2; 59:303, 573 N 6 '23, F 19, Ap 8 '24
Engines in combined power and process steam plants. J: Cassiday. il Power 60:724-5 N 4 '24
Entwicklungslinien der dampfkraftmaschinen und die aussichten des gasmaschinenbetriebes. H. Hoff. diags Stahl & Eisen 44: 1437-46, 1482-8; Discussion. 1567-75 N 13-20, D 4 '24
Executive and his power department. M. Sampson. Textile World 66:1867+ O 4 '24
Expansion curves. diags Engineer 140:339-40 O 2 '25
Extraction engines for industrial power plants. F. Johnstone-Taylor. diags Power Pl Eng 29:525-8 My 15 '25
400 k. w. tandem compound steam engine; Davey, Paxman. il diags Engineer 137:618 Je 6 '24
German steam engine without boiler. Am Mach 62:623 Ap 16 '25
Greater range of cutoff with double-eccentric engine. diag Power 59:423 Mr 11 '24
High-efficiency pumping engines. J. C. Dijxhoorn. diag Power 62:12 Jl 7 '25
High-speed steam engine at the British Empire exhibition. il diags Engineering 118: 305-6 Ag 29 '24
High temperature boilers and engines. Engineer 137:337-8 Mr 28 '24
How fast does the piston move? diag Power 60:304, 344 Ag 19-26 '24
Indicator cards show power distribution. Power Pl Eng 29:972-3, 1019-20, 1114-15, 1219 S 15-O 1, N 1, D 1 '25
Marine type triple-expansion pumping engine. diags Engineering 119:477-80 Ap 17 '25
Newcomen engine. F. P. Terry. Power 58: 819 N 20 '23
Operating Corliss engines; instructions from recent operating code of the N. E. L. A. Power 61:354-5 Mr 3 '25
Perfect and actual engines. Power 59:920 Je 3 '24
Possibility of dynamic back-pressure reduction in reciprocating steam and gas engines. F. Loewenberg. Power 59:700 Ap 29 '24
Power increased from an overloaded engine. il diags Power Pl Eng 28:299-300 Mr 1 '24
Prime movers for industrial plants. J: F. Ferguson. Power 59:766-8 My 13 '24
Scientific engine selection. Power 62:141, 460, 696 Jl 28, S 22, N 3 '25
Selbsttätige einlasssteuerung für dampfmaschinen. G. Stein. diags Zeit Ver Deutsch Ing 69:419-20 Mr 28 '25
Single-eccentric Corliss engine cutting off after half-stroke. diag Power 59:147 Ja 22 '24
Steady progress in steam power economy; from the Newcomen engine to the mercury boiler. J. T. Beard. il diags Ind Management 67:329-35 Je '24
Steam-driven auxiliaries are wasteful. Power 62:732-3, 951 N 10, D 15 '25
Steam engine as a stoker drive. il Power Pl Eng 28:1000-2 O 1 '24
Steam logging. J. W. Gill. diags Mech Eng 47:815-20 O '25
Steam prime movers for the paper mill. R. W. Leeper. Tech Assn Pa ser 8:22-5 '25; Same. Paper Tr J 80:146-9 F 5 '25
Superheat with reciprocating engines. Marine Eng 30:414-15+ Jl '25
Throttling calorimeter vs. the barrel method. L. G. Jones. Power 61:370 Mr 10 '25
200 k.w. steam-extraction generator set. il diags Engineer 130:630-2 Je 5 '25
Why riding-cutoff engine pounds. R. A. Cultra. diags Power Pl Eng 29:303 Mr 1 '25
Why should the bearing not be set level? H. D. Fisher. diag Power 60:106 Jl 15 '24

See also Automobiles, Steam; Blowers; Boilers; Condensers (steam); Exhaust steam; Flywheels; Governors (machinery); Indicator diagrams; Injectors; Locomotives; Marine engines; Motor buses, Steam; Motor cars (railroad)—Steam; Motor trucks, Steam; Safety valves; Steam; Steam plants; Steam shovels; Steam turbines; Steamboats; Still engine; Superheated steam; Tractors, Steam

Binary vapor engines

La machine à vapeurs combinées (eau et éther) de Du Trembley (1850). F. Collin. Génie Civil 85:377-9 O 25 '24

See also Mercury turbines

Design

Anleitung zur berechnung einer dampfmaschine. R: Grassmann. 643p J. Springer, Berlin '24
British rolling mill engine design. F. Johnstone-Taylor. il diags Iron Age 113:1717-19 Je 12 '24

Efficiency

Heat-cycle efficiencies. L. S. Marks. diags Power 61:100-2 Ja 20 '25; Discussion. J. D. McAdoo. 61:227 F 10 '25
How much work can be obtained from a pound of fuel? L. S. Marks. Power 60:536-9 S 30 '24
Standards of comparison in connection with the thermal efficiency of steam engines. H. R. Sankey. Engineering 118:818-20 D 12 '24;

STEAM engines—Efficiency—*Continued*
Abstract. Engineer 138:689-90 D 19 '24; Excerpt. Power Pl Eng 29:202-3 F 1 '25; Discussion. Engineering 118:835, 866-7 D 19-26 '24

Failures
Some British steam engines accidents. Power 62:410-11 S 15 '25

History
Jacob Perkins and his steam engines. Engineer 140:6-7+ Jl 3 '25
150 years in steam power history. W: L. R. Emmet. Iron Tr R 75:1712-13 D 25 '24
Watt and Woolf. Engineer 139:652 Je 12 '25

Lubrication
Can we standardize power plant lubrication? A. F. Brewer. il Ind Management 69:70-3 F '25
Cylinder lubrication when using saturated and superheated steam. J: D. Morgan. Power 59:607 Ap 15 '24; Discussion. E. Ogur. 59:834 My 20 '24
Lubricating the eccentrics. A. R. Knapp. diag Power Pl Eng 27:1135 N 15 '23
Oils for steam engines. J. B. Rathbun. Pet Age 13:76 Mr 15 '24

Repair
Overhauling a Corliss engine. J. O. Benefiel. diag Power 61:701 My 5 '25
Re-surfacing valve face on cylinder without dismantling. R. M. Orr. il Power 60:298 Ag 19 '24

Specifications
Outline of tentative specifications for steam engine. Am Arch 126:sup 20+ Jl 30 '24

Tables, calculations, etc.
Measuring cylinder clearance volume. Power 59:919 Je 3 '24
Steam consumption of perfect engine. chart Power 61:1018-19 Je 30 '25
Useful uniflow engine calculations. F. W: Bosch. diags Power Pl Eng 29:997-8 O 1 '25
Water rates of marine reciprocating engines. E. A. Stevens, jr. Marine Eng 29:293-7, 364-8 My-Je '24

Testing
Code on instruments and apparatus. diags Mech Eng 47:920-6 N '25
Duty tests of vertical triple-expansion pumping engines, Milwaukee, Wis. C: A. Cahill. il Mech Eng 47:841-3; Disscussion. 843-4 O '25
Test of a Prosser-type reciprocating steam engine. L. V. Ludy. il diags Mech Eng 47:249-53 Ap '25; Abstract. Power Pl Eng 29:186-8 F 1 '25; Abstract. Power 60:931-2 D 9 '24; Discussion. Mech Eng 47:253-5 Ap '25
Testing steam engines by heat balance method. E. Ogur. Power Pl Eng 29:591-4 Je 1 '25; Abstract. Mech Eng 47:672 Ag '25

Uniflow engines
Advantages of unaflow steam engines. C. A. Joerger. Power Pl Eng 28:178 F 1 '24
Auxiliary exhaust valves versus additional clearance in back-pressure unaflow engines. P. Langer. diags Power 59:937-9 Je 10 '24
Carmichael uniflow steam engine. il diags Engineering 117:808-10 Je 20 '24
Comparison of four-valve and two-valve unaflow engines. M. L. Barker. diags Power 60:289-90 Ag 19 '24
Development of Perkins' idea. diags Power 59:719-20 My 6 '24
First uni-flow engine. Engineer 137:628, 721 Je 6, 27 '24
Fitchburg unaflow engine. il Power 62:424-5 S 15 '25
Giant uniflow engine for steel mill drive. il diag Power 62:122-5 Jl 28 '25
Ice plant installs unaflow engines. il Power 59: 981-2 Je 17 '24
Installation problems of a uniflow-engine-driven centrifugal pump. il diag Power 62: 519-21 O 6 '25
Removing cylinder head and piston from unaflow engine. A. A. Fette. il Power 59:957-8; 60:852; 61:346 Je 10, N 25 '24, Mr 3 '25
Some experience with a two-valve noncondensing unaflow engine. M. L. Barker. diags Power 59:175-6 Ja 29 '24
Specifications for uniflow steam engine. Am Arch 127:sup18 Ja 28 '25
Test of a uniflow engine. G: H. Barrus. il Mech Eng 47:440-1 sec 2 My '25; Same cond. Power Pl Eng 29:589-90 Je 1 '25; Same cond. Power 61:805 My 19 '25; Discussion. Mech Eng 47:844-5 O '25
Unaflow engine practice of a century ago. Power 61:368-70 Mr 10 '25
Unaflow engine with hydraulic valve gear. il diag Power 62:488-9 S 29 '25
Unaflow engine without auxiliary exhaust valves. il diags Power 56:1024-5 D 26 '22; Discussion. 58:108-9, 307, 509, 699; 59:63 Jl 17, Ag 21, S 25, O 30 '23, Ja 8 '24
Unaflow engines were built in the year 1827. C: R. King. Power 60:377-8 S 2 '24
Unaflow locomotive is built for Russia. J. Stumpf. il diags Ry Mech Eng 98:517-21 S '24; Same. Ry Age 77:327-31 Ag 23 '24
Uniflow and compound duoflow engines. R. Cramer. Mech Eng 47:191-2; Discussion. 192-3 Mr '25; Abstract. Power 61:263-4 F 17 '25; Discussion. Power 62:696-8, 775-6 N 3, 17 '25
Uniflow steam engine exhibited by Hick, Hargreaves and co. il diag Engineer 138:228-9 Ag 29 '24
Useful uniflow engine calculations. F. W: Bosch. diags Power Pl Eng 29:997-8 O 1 '25
Valveless uni-flow engines being developed by Palmer St Clair, jr., Roanoke, Va. il Eng N 95:81-2 Jl 9 '25

Vibration
Overcoming vibrations caused by steam engines. F. S. Rutledge. diag Power Pl Eng 29:759-60 Jl 15 '25

STEAM engines, Portable
Die verwendung der lokomobile im bauwesen. O. Kölsch. il Zeit Ver Deutsch Ing 68:704-7 Jl 5 '24

STEAM fitters
Heating and piping contractors—this is your job! Heat & Ven 22:75-6 My '25

STEAM fitting. See Steam pipes

STEAM fittings
Avoiding water pockets in steam lines by the use of eccentric reducing fittings. W. H. Wakeman. diags Power 60:376 S 2 '24

Testing
Hydraulic pump used to boost steam pressure. A. B. Newell. Power 62:654 O 27 '25

STEAM flow
Die bestimmung der zähigkeit des wasserdampfes. H. Speyerer. diags Zeit Ver Deutsch Ing 69:747-52 My 30 '25
Calculating steam flow for turbines. J. Y. Dahlstrand. chart Power Pl Eng 28:945-6 S 15 '24
Critical velocity of steam and condensate mixtures in horizontal, vertical, and inclined pipes. F. C. Houghten and R. L. Lincoln. il diags Am Soc Heat & V E J 30: 153-68 F '24; Abstract. Power Pl Eng 28: 298 Mr 1 '24; Discussion. Am Soc Heat & V E J 30:268-9 Mr '24
Depression effect in nozzle flow. H: A. Hepburn. diags Engineer 136:691-2 D 28 '23
Dry-weather flows. A. A. Barnes. Engineer 139:713-14 Je 26 '25
Expansion and compression phenomena in steam jets; abstracts. A. L. Mellanby. Chem Age (Lond) 12:245-6 Mr 14 '25; Engineer 139:543 My 15 '25; Discussion. Chem Age (Lond) 12:271 Mr 21 '25
Finding the critical velocity of steam. Dom Eng 106:36+ Mr 1 '24
Flow measuring nozzle. A. J. Nicholas. diags Power 62:365-6 S 8 '25
Flow of steam and condensation as affected by high pressures, horizontal offsets and valves. L: Ebin and R. L. Lincoln. diags Am Soc Heat & V E J 30:475-90 Je '24

STEAM flow—*Continued*
Flow of steam and condensation in heating systems. il diag Dom Eng 109:33-4 D 27 '24
Flow of steam in one-pipe risers. il diags Dom Eng 110:43+ Mr 14 '25
How to figure the resistance of pipe bends to the flow of steam. C: H. Day. diags Heat & Ven 21:51-2 Jl '24
Nozzle efficiency; editorial. Engineering 117: 673-4 My 23 '24
Orifice valve to control and measure steam flow. diags Management & Adm 7:97 Ja '24
Pipe losses in steam nozzles; abstract. A. L. Mellanby and W. Kerr. Mech Eng 47:674-5 Ag '25
Progress report on the critical velocity of the flow of steam in two pipe systems. diags Am Soc Heat & V E J 31:119-28 F '25
Properties of steam in relation to nozzle and orifice flow. W: J. Walker. chart Power 62:173-5 Ag 4 '25
Steam-flow determination with a thin-plate orifice. E: S. Bristol. diag Power 62:244-5 Ag 18 '25
Steam-nozzles research committee third report. il diags Engineering 117:681-5 My 23 '24; Abstract. Engineer 137:574-5 My 23 '24; Excerpt. Mech Eng 46:484-6 Ag '24; Discussion. Engineering 117:657 My 23 '24; Engineer 137:575+; 138:418 My 23, O 10 '24
Steam-nozzles research committee fourth report. diags Engineering 119:617-19, 651-4 My 15-22 '25; Abstract. Engineer 139:536-8 My 15 '25; Discussion. Engineering 119:612-14 My 15 '25; Engineer 139:538, 565-6 My 15-22 '25
Turbine nozzle loss analyzed by air-flow measurement. il diags Power 60:875-7 D 2 '24
Unusual theory of steam flow in one-pipe jobs. diag Sanitary & Heat Eng 103:188 Mr 20 '25

See also Steam meters

STEAM heaters
Characteristics of air-blast heaters. F. R. Ellis and J. D. White. diags Ind & Eng Chem 16:471-3 My '24
Characteristics of an air-tube type copper heater. L. G. Bousquet and G: A. Foisy. il Am Soc Heat & V E J 31:129-47 F '25; Abstract. Heat & Ven 22:73 My '25; Discussion. Am Soc Heat & V E J 31:254-6 Ap '25
Jointless heating system for a modern manufacturing plant. R. S. Arnold. il Sanitary & Heat Eng 103:151-2 Mr 6 '25; Same. Heat & Ven 22:54-5+ Ap '25
New type of low pressure copper-tube heaters. il Heat & Ven 20:54-6 N '23
Unit heaters for industrial heating. H. B. Hedges. il Am Soc Heat & V E J 31:437-46 S '25
Venturafin. il diags Heat & Ven 21:79-81 Ap '24; Am Mach 60:525 Ap 3 '24; Ry Age 76: 1280 My 24 '24

See also Steam water heaters

Testing
Testing of Cartridge copper heaters. diags plan Heat & Ven 21:61-2 Ap '24

STEAM heating
Air-line heating systems. A. G. King. il diags Dom Eng 106:20-4 Ja 19 '24
Another central heating system turns to live steam; Union electric light and power company, St Louis. L. E. Young. il diag map Heat & Ven 21:41-4 N '24
Back to first principles; plain answers to direct questions on present-day heating and ventilating practice. T. W. Reynolds. diags Heat & Ven 21:61-3 Ja; 68-9 F; 59-61 Mr; 52-4 Ap; 55-7 Je; 60-1 Ag; 58-9 O '24; 22: 74-5 Ap '25
Central heating plant at Grand Rapids. plan Power 60:42-6 Jl 8 '24
Central station heating requirements. H. A. Woodworth. diags Power Pl Eng 28:658-62 Je 15 '24
Centralized building heating service. L: A. Foster. il plans Power Pl Eng 29:493-5 My 1 '25
Combining the heating system with small power and lighting plants. C: L. Hubbard. il plan Sanitary & Heat Eng 103:249-50 Ap 17 '25
Dangers to low-pressure boilers used in vacuum heating systems. diags Heat & Ven 22: 92-3 My '25
District steam heating in small communities and residential districts. W. J. Kline. il Heat & Ven 22:69-72 My '25
Economical utilization of heat from central station plants. N. W. Calvert and J. E. Seiter. charts diags plan Am Soc Heat & V E J 30:1-16 Ja '24; Same cond. Power Pl Eng 28:296-8 Mr 1 '24; Excerpts. Heat & Ven 21:64-7 F '24; Abstract. Power 59: 347 F 26 '24; Discussion. Am Soc Heat & V E J 30:259-61 Mr '24
Effect of over and under radiation upon the steam consumption in a building. Heat & Ven 21:71-2 S '24
Facts on hot water and steam central heating systems. E. W. Riesbeck. il diags plans Dom Eng 109:33-4+ D 6; 34+ D 13 '24
Function of the differential loop in vapor heating. Heat & Ven 21:78 O '24
Greenhouse heating. E. W. Riesbeck. il diags Dom Eng 109:25+ O 18 '24
Group heating of institutions and colleges. A. S. Kellogg. Am Soc Heat & V E J 29: 629-39 N '23
Halving heating costs with central station steam; Springfield (Ohio) Masonic temple. S: R. Lewis. Heat & Ven 22:82-3 S; 49-59 O '25
Heating and ventilating a super-power plant; Weymouth power station. S: Sayward. il plans Dom Eng 113:22-4 N 7 '25
Heating and ventilating of new Masonic temple, Davenport, Iowa. F. T. Tyler. plans Am Arch 127:295-7 Mr 25 '25
Heating and ventilating the United States capitol. Heat & Ven 22:61-2 Mr; 69-71+ Ap; 69-71 N '25
Heating by exhaust steam. il diag Engineering 119:287-8 Mr 6 '25
Heating of residences and small buildings. A. G. King. 142p Domestic engineering publications, 1900 Prairie st., Chicago '24
Heating semi-exposed portions of buildings. J: G. Garraway. Heat & Ven 21:44 Je '24
Heating system of the power plant. E. C. Warfield. diag Power 60:882-3 D 2 '24
Hunting trouble with Belmonte. diags Dom Eng 111:19-20 My 2 '25
Institutional gymnasium heating; Bloomingdale hospital, White Plains, N.Y. A. J. Offner. diags plans Heat & Ven 22:51-4 Ap '25
Lansing improves district heating service. J. E. Woodwell. il chart diag plan Power Pl Eng 29:984-8 O 1 '25
Mode d'emploi de la vapeur d'échappement pour le chauffage. M. Miet. diags Génie Civil 83:646-7 D 29 '23
Model Webster heating system visualizes action of condensation lifting device and other features. il diag Heat & Ven 22:85-7 Ja '25
Modified heating system for a residence. A. G. King. il plans Dom Eng 105:520-4, 620-3 D 15, 29 '23
Motor driven return line vacuum heating pumps. H. M. Wylie and A. D. Harvey. il diags Am Soc Heat & V E J 31:279-96 My '25
Nervous water lines in steam boilers. A. G. King. diags Dom Eng 111:20-2 Je 27 '25
New application of old principles in heating an apartment building; one-pipe gravity-return system and air supply equipment. il diags plans Heat & Ven 22:47-53 Mr '25
New central heating plant of Queen's university and Kingston general hospital; a combination steam and hot water supply. L. M. Arkley and W. P. Wilgar. il diags plan Heat & Ven 20:48-51 D '23
New process of plant heating; abstract. C: Eberle. diag Mech Eng 47:44-5 Ja '25
One-pipe steam job. J. Mackay. diags Dom Eng 109:24-7 N 8 '24

STEAM heating—*Continued*
Piping steam to pump receiver, corrects trouble. il diag Power 61:660-1; 62:65 Ap 28, Jl 14 '25
Practical steam, hot water and vapor heating and ventilation. A. G. King. 5th ed., rev. and enl. 551p Henley '25
Remodeling the heating and ventilating system in Independence Hall. T. W. Reynolds. il plans Heat & Ven 20:43-6 N '23
Round table discussions on heating problems. E. W. Riesbeck. diags Dom Eng 109:26+ D 20 '24; 110:24-6+ Ja 24; 25-6 F 7; 33 Mr 7; 111:30+ My 2; 24-6+ My 30; 35-6+ Je 20 '25
Some aspects of the boiler feed water problem in central steam heating plants; abstract. M. Hecht and C. H. Fellows. Power 60:345 Ag 26 '24
Steam consumed in heating buildings of various sorts. J. E. Seiter. Eng & Contr (Bldgs) 61:209-10 Ja 23 '24
Steam for enginehouse heating systems and blower lines. H. W. Williams. Ry Mech Eng 99:275-6 My '25
Steam heating. F: W: Dye. 203p Spon '22
Steam heating; a manual of practical data. 367p Warren Webster & co., Camden, N.J. '24
Strange heating problem. diags Dom Eng 111: 24-6 Ap 18 '25
Summer care of heating plants. E. Williams. diags Dom Eng 112:18 Jl 11 '25
Three jobs in one; heating plant layout of the new German Evangelical Deaconess hospital, Chicago. il diags Dom Eng 106:21-5 Ja 26 '24
Trailing lost air. diags Dom Eng 112:26+ Jl 18 '25
Trouble jobs. E. W. Riesbeck. diags Dom Eng 107:21-2 Ap 5; 20-3 My 3; 20-3 My 17; 28-31 Je 21; 108:23-5 Jl 12; 25-7 Ag 9; 109: 30-2+ N 1 '24; 110:26-7 Ja 3; 30+ F 28; 112: 37-8+ Jl 25 '25
Unique vacuum system has overhead return. J. A. Mackay. diags plan Dom Eng 113:19-20 O 3 '25
Vacuum pump heating systems. R. H. Anderegg and M. W: Ehrlich. il diags Dom Eng 112:22-4 Ag 1; 18-20 Ag 8; 20-2 Ag 22 '25
Vapor heating; the Dunham system. il diag Heat & Ven 21:84-5 Ag '24
Vapor, vacuum, and low pressure systems. C: L. Hubbard. diags Dom Eng 108:25-6+ Ag 16 '24
Water troubles in two vacuum heating systems. diags plans Heat & Ven 21:63-6 Ap '24
We need more brains in heating system design. J. H. Walker. Heat & Ven 21:41-2 D '24
When is a return-line system efficient? Heat & Ven 22:79-80 Ap '25
Why not extend the vacuum to the inside of the radiator? Heat & Ven 21:68-70 O '24
Why water leaves boiler in one-pipe heating system. plan Heat & Ven 22:94-5 My '25
Winnipeg's new district heating system. il Heat & Ven 22:54-6+ F '25

See also Gas steam radiators; Heating; Heating from central stations; Hot water heating; Radiators; Steam heaters; Steam pipe coverings; Steam pipes; Steam traps

Control

Applying centralized control to steam heating systems. il diags Power 60:417-19 S 9 '24
Control of heat output from one-pipe radiators. S. H. Woodbridge. diag Heat & Ven 21:44-5 Ag '24
Fixed orifice method of temperature control. diag Heat & Ven 21:55-7 Jl '24
Heating controlled by air dampers instead of steam valve. W. H. Wakeman. diag Power 61:988 Je 23 '25
Practical notes on the use of pressure regulators and pressure-reducing valves. T. H. Ireland. diags Heat & Ven 21:49-53 F '24
Steam service control through intermittent supply. diag Heat & Ven 21:76-8 S '24
Use of a signal system for improving central heating plant operation. H. A. Woodworth. diag Heat & Ven 21:54-5 My '24
Vapor heating; Hoffman controlled heat. diags Heat & Ven 21:86-9 Je; 94-5 Jl '24
Vapor heating; Webster type R modulation system. diags Heat & Ven 21:96-7 Jl; 82-3 Ag '24

Cost

Cost of heating office buildings. Arch Forum 42:323 My '25; Same. Eng & Contr (Bldgs) 64:197 Jl 22 '25

Tables, calculations, etc.

Comparative costs and heat emission for cast-iron direct radiation. T. W. Reynolds. Heat & Ven 21:41-5 O '24
Critical velocity of steam and condensate mixtures in horizontal, vertical, and inclined pipes. F. C. Houghten and R. L. Lincoln. il diags Am Soc Heat & V E J 30:153-68 F '24; Abstract. Power Pl Eng 28: 298 Mr 1 '24; Discussion. Am Soc Heat & V E J 30:268-9 Mr '24
Determining dry return proportions. R. V. Frost. Am Soc Heat & V E J 30:359-64 My '24; Same. Heat & Ven 21:62-5 Jl '24
Factory heating and ventilation. A. G. King. diag plans Dom Eng 108:31-3+ Ag 30 '24
Hoffman data book for heating engineers and contractors. J: M. Sewell and C: V. Haynes, comps. 2d ed. 170p Hoffman Specialty co., inc., Waterbury, Conn. '25
Horizontal steam supply run-outs to radiators with counterflowing condensation. Heat & Ven 22:90-1 Ap '25
Low pressure steam for district heating. H. A. Woodworth. il diag Power Pl Eng 28: 763-8 Jl 15 '24
Progress report on the critical velocity of the flow of steam in two pipe systems. diags Am Soc Heat & V E J 31:119-28 F '25
Reducing amount of heating surface as temperature of steam increases. L. M. Emmet. Dom Eng 110:40 Mr 14 '25
Round table. diags Dom Eng 112:30+ Jl 18; 113:30+ O 10; 25-7+ O 17; 28+ N 14; 31-2 D 12 '25
Speedy and accurate method of figuring radiator sizes. P. R. Babcock. Heat & Ven 21:53-4 Jl '24

See also Steam flow

Testing

Comparative tests of heating systems; report of the heat utilization committee. Power 60:783-4 N 11 '24

STEAM jackets

See also Evaporators

Safety devices

Rupture of steam jackets. Textile World 67:2351 Ap 4 '25

STEAM-jet-furnace. See Furnaces, Boiler—Turbine furnace

STEAM jets

Agitating and mixing; how to use the steam jet for stirring and agitating. S. G. Ketterer. il diags Chem & Met Eng 29:1060-1 D 10 '23
Economy of the steam jet air pump. H. E. Carleton. Power Pl Eng 29:595 Je 1 '25
Expansion and compression phenomena in steam jets. A. L. Mellanby. Chem Age (Lond) 12:245-6 Mr 14 '25; Discussion. 12: 271 Mr 21 '25
Home-made ejector for handling bagasse makes big saving in labor. E. C. Bliss. il Power 61:956 Je 16 '25
Jet conveyor equipped with rebound fitting. il Power Pl Eng 29:667 Je 15 '25
Steam jet ash conveyors. C. H. S. Tupholme. Cassier's Ind Management 11:427-8 S '24

STEAM meters

Drayton steam meter. il diags Engineering 119:777-8 Je 19 '25
Flow meters in the accounting of process steam. C. Tyler. il diag Chem & Met Eng 32:755-6 S '25
Hodgson steam meter. diag Engineering 119: 771 Je 19 '25; Mech Eng 47:752-3 S '25
How steam waste was stopped in a Toledo factory building. Heat & Ven 21:72 N '24

STEAM meters—*Continued*
Indicating and recording steam meter. il Management & Adm 6:777-8 D '23
Installing the electric steam-flow meter. J. M. Spitzglass. diags Power 60:746-7 N 4 '24
Measuring steam by means of meters. il Eng & Min J 118:836 N 22 '24
Rise of steam flow meters in central station heating service. H: Allen. il diags Heat & Ven 21:48-52 Ag '24
See also Steam flow

STEAM motor cars. See Motor cars (railroad) —Steam

STEAM motor trucks. See Motor trucks, Steam

STEAM pipe coverings
Building a concrete box around an existing steam main. Heat & Ven 21:64 Ag '24
Commercial efficiency of single and graded steam pipe coverings. diag Heat & Ven 21: 48-52 Ja '24; Abstract. Mech Eng 46:155-6 Mr '24
Cost of steam pipe bareness. Sanitary & Heat Eng 102:237 O 3 '24
Economies effected by insulating train steam pipes. W: N. Allman. Ry Mech Eng 99: 160-1 Mr '25
Executive and his power department. M. Sampson. Textile World 66:1281+ S 6 '24
Heat losses through insulating materials. R. H. Heilman. Mech Eng 46:593-602 O '24; Same. Sanitary & Heat Eng 103:69-71+ 182-4, 254-5, 365-8 F 6, Mr 20, Ap 17, My 29 '25; Discussion. Mech Eng 46:602-6 O '24
Heat transmission from bare and insulated pipes. R. H. Heilman. Ind & Eng Chem 16:451-8 My '24; Abstracts. Mech Eng 46: 349 Je '24; Power Pl Eng 28:742-5 Jl 15 '24
Pipe insulation for lines underground. il diags Power Pl Eng 28:189-90 F 1 '24
Pipe line built for permanency. il Sanitary & Heat Eng 103:251 Ap 17 '25
Rational design of covering for pipes carrying steam up to 800 deg. F. Power 61:804 My 19 '25
Rational design of covering for pipes carrying steam up to 800 deg. fahr. W. A. Carter and E. T. Cope. diags Mech Eng 47:805-8 O '25
Recent developments in pipe insulation. il Power Pl Eng 28:698-9 Jl 1 '24
Stopping radiation losses. Power 59:696 Ap 29 '24
Tests of insulation of underground steam pipes. W. M. Sawdon. diag Sibley J 39:267-71 F '25

STEAM pipes
Anchored steam chest flexibly piped to turbine. diag Power 62:407 S 15 '25
Arc welded exhaust steam line. E. W. Gallagher. il diag Power Pl Eng 29:352 Mr 15 '25
Calculating expansion and aligning steam pipes to large turbines. il plans Power 62: 594-7 O 20 '25
Cleveland's underground high-pressure steam line. il Power 59:816 My 20 '24
Design of an efficient steam pipe system. C. C. Hermann. plan Power Pl Eng 29:890-2 S 1 '25
Effect on pipe sizes in changing a heating system from gravity to vacuum. Heat & Ven 21:72-3 My '24
Elasticity capacity of steam piping as affecting expansion. H: Carlier. Mech Eng 47: 131-2 F '25
Electric welding of live steam main at St Louis. J: B. Abell. Munic & Co Eng 69:181-2 O '25; Same cond. Elec W 86:904-5 O 31 '25; Same cond. Eng & Contr (W W) 64: 1083 N 11 '25
Expansion steam bends. P. M. Gallo. diags Blast F & Steel Pl 13:218-20, 261-2+, 300-2 My-Jl '25
Fall of pressure and superheat in steam lines. Power 59:1002 Je 17 '24
Flow of steam and condensation in heating systems. il diag Dom Eng 109:33-4 D 27 '24
Flow of steam in one-pipe risers. il diags Dom Eng 110:43+ Mr 14 '25
High pressure steam line 3,600 feet in length. E. E. Scott. il Power 59:216 F 5 '24
High pressure underground steam systems are increasing. L: A. Foster. Power Pl Eng 29:634 Je 15 '25
How connection was made to steam line under pressure. M. Odgers. diag Power 61:502 Mr 31 '25
How to figure the resistance of pipe bends to the flow of steam. C: H. Day. diags Heat & Ven 21:51-2 Jl '24
Installing pipe line in mill building. il Sanitary & Heat Eng 104:109 Ag 21 '25
Lansing improves district heating service. J. E. Woodwell. il chart diag plan Power Pl Eng 29:984-8 O 1 '25
Let's look at the piping system. A. G. King. diags Dom Eng 112:33+ S 19 '25
Nomogram for calculating steam piping from the thermodynamic point of view; abstract. A. C. Raes. Mech Eng 47:508 Je '25
Pipe connections to power units. il diag Power Pl Eng 28:1093-4 N 1 '24
Pipe joints for high pressures and temperatures. diags Power 60:396-7 S 9 '24
Pipe line built for permanency. il Sanitary & Heat Eng 103:251 Ap 17 '25
Pipe wall thickness chart. D. Gerber. Power Pl Eng 27:1149 N 15 '23
Piping for high pressure and temperature. R. A. Fiske. diags Power Pl Eng 28:424-7 Ap 15 '24
Piping materials, valves and gaskets for high pressures and temperatures. J: D. Morgan Power 59:907-8 Je 3 '24; Discussion. H. D. Fisher. 59:1039 Je 24 '24
Removing water from steam mains. C. C. Hermann. diags Power Pl Eng 29:787-8 Ag 1 '25
Something about pipe coils. plan Dom Eng 105: 364-6 N 24 '23
Steam conduit system for the Dupont horticultural buildings. F. L. Cason. il diags Heat & Ven 21:61-3 F '24
Steam pipe expansion joint. il diags Ry R 73:811-12 D 1 '23
Steam pipes for extra high pressure and temperature. J. A. Aiton. Engineering 119: 306-7 Mr 6 '25; Abstract. Mech Eng 47:357 My '25; Abstract. Power Pl Eng 29:448 Ap 15 '25
Steam piping for Kearny station. H. L. R. Whitney. il Power 61:824 My 26 '25
Superheated steam in high pressure underground lines. L. A. Foster. Power Pl Eng 29:581-2 Je 1 '25
Underground pipe expansion taken by bends. Power Pl Eng 29:210, 305 F 1, Mr 1 '25
Wabash river station employs Holly loop. J. L. Peurifoy. diags Power Pl Eng 29:1097-8 N 1 '25
Welding for the steamfitter. G. W. Macauley. il Dom Eng 108:19-20+ Ag 9 '24
Welds a mile-long refinery steam line without expansion joints. P. Truesdell. il diag plan Nat Pet N 17:48-50 S 16; 72+ S 23 '25
Die wirtschaftliche fortleitung und verteilung von dampf auf grosse entfernungen. K. Hencky. diags Zeit Ver Deutsch Ing 69:492-8 Ap 18 '25
See also Heating from central stations; Pipe fittings; Pipe hangers: Piping (power plants); Steam flow; Steam heating; Steam pipe coverings; Steam traps

Failures
Failure of pipes and valves subjected to steam pressure. F. J. Drover. Cassier's Ind Management 12:490+ O '25
Steam pipe explosion. Locomotive 35:237-8 O '25

Repair
How the leak was stopped at a minimum of labor and expense. S. W. Stearns. diag Power 61:226 F 10 '25
Quick repair of an eight-inch steam main. il Power 62:292 Ag 25 '25

Specifications
Piping specifications. H. W. Brooks. Power 59:505-6 Mr 25 '24

STEAM pipes—*Continued*

Standards

Progress in high pressure piping details. Power Pl Eng 28:656-7 Je 15 '24; Power 59:965-6 Je 10 '24

Steel-flange standards for high pressures planned. Elec W 82:972 N 10 '23

Temperature

Outside temperature of steam pipes. S. S. Sanford. Power 59:735 My 6 '24

STEAM plants

Adapting evaporators to heat balance. E. H. Chapin. diags Power Pl Eng 28:534-6, 588-91 My 15-Je 1 '24

Additional power for the tri-cities; Riverside station of the United light & power co. il diags Power Pl Eng 29:516-22 My 15 '25

Advances in power station practice. E. M. Hollingsworth. Inst E E J 62:31-6 D '23

American society of mechanical engineers discuss power generation at 44th annual meeting. diags Power Pl Eng 27:1256-9 D 15 '23

Aurora plant addition built in six months. il plans Power Pl Eng 28:463-70 My 1 '24

Bow power station. il plan map Engineer 139: 542-3, 546 My 15 '25

Burning hog fuel at Coos Bay plant. il diag Power 62:646-9 O 27 '25

Cahokia—a masterpiece! F. J. Crolius. il diag Blast F & Steel Pl 12:Material handling sec 7-11 Ap '24

Cahokia power houses. D: Brownlie. il Electrician 92:132-3 F 1 '24

Cahokia power plant pulverized-fuel, isolated-phase station. il diags plans Elec W 83:610-20 Mr 29 '24

Cahokia power station of the Union electric light & power co., of Illinois. P. Junkersfeld il diags plan Elec J 21:232-42 My '24

Characteristics of new Long Beach plant. il plans Elec W 85:1384-7 Je 27 '25

Chemistry in power plant. W. M. Miles. Chem Age (Lond) 10:643 Je 21 '24

Completing High Bridge plant at St Paul. il Elec W 84:1347-9 D 27 '24

Control of power production. C: L. Hubbard. diags Factory 31:451-2+, 602-5+, 750-4+; 32:27-9+, 166-9+, 312-16+ O '23-Mr '24

Crawford Avenue station. W. L. Abbott. diags plans Elec W 86:113-19 Jl 18 '25

Crawford Ave. station—engineering features. il diags plans Power Pl Eng 29:676-88 Jl 1 '25

Crawford Avenue station of the Commonwealth Edison company. il diags plans Power 61:936-44 Je 16 '25

Devon station of the Connecticut light & power company. il map plans Power 59:474-80 Mr 25 '24

18,000-kw. plant serves Long-Bell lumber company. il Power 60:638-41 O 21 '24; Power Pl Eng 28:1120-1 N 1 '24; J Elec 53:355-8 N 15 '24

Extensions to Fulham electric power station. il Engineering 120:488-90 O 16 '25; Elec R (Lond) 97:659-61 O 23 '25

Fairmount pumping station and heating plant. L. A. Quayle. il diag plan Mech Eng 46:866-72 D '24; Abstract. Power 60:844-7 N 25 '24

First section of Toronto plant nears completion. il Power 60:665 O 21 '24

Five new superpower steam stations. il Elec W 84:834-8 O 18 '24

Floating power house. F. R. Innes. il Elec W 83:818-19 Ap 26 '24

Ford plant enlarges power capacity. G: E. Hagemann. il Management & Adm 10:205-8, 273-6 O-N '25

Ford plants to use pulverized coke. il diags Power Pl Eng 27:1165-72 D 1 '23

Fortschritte der dampfkraftversorgung in hüttenwerken. H. Wolf. il diags Stahl & Eisen 45:1225-32 Jl 16 '25

14,000-kw station at Williamsport, quickly designed and built. il plans Power 59:354-60 Mr 4 '24

Fuel economy in steam plants. A. Grounds. 106p Pitman '24

Hales Bar steam plant on the Tennessee river. L: R. Lee. il diags Power Pl Eng 28:1178 82 D 1 '24

Hastings electric power station. il diags Engineering 119:666-70 My 29 '25

Heat balance in Devon station. diags Power 59:674-5 Ap 29 '24

House service generators; their types and field of application. W. R. Herod. il Gen Elec R 27:549-54 Ag '24

Hudson Avenue—Brooklyn Edison's superstation. il diags map Power 59:750-8 My 13 '24; Power Pl Eng 28:549-53, 706-9 My 15, Jl 1 '24

Das Hudson Avenue-kraftwerk in Brooklyn. F. Ohlmüller. diags map Elektrotech Zeit 45:1101-8 O 16 '24

Illinois mine generates own power cheaply. A. Allen and H. F. Hebley. il Coal Age 26: 3-7 Jl 3 '24

Industrial power plant; its possibilities and place in our economic structure. E. Douglas. Power 60:394-5 S 9 '24

Initial units at Peoria rated at 40,000 kw. H. G. Kniese. il Power Pl Eng 29:820-2 Ag 1 '25

Island station of St Paul gas light company. il plan Power 61:444-8 Mr 24 '25

Largest straight reaction turbine—how internal conditions vary with load. E. H. Thompson. il diags Power 59:1016-19 Je 24 '24

Latest design and practise in power plants; report of A.I.E.E. committee on power generation. Am Inst E E J 44:1178-83 N '25; Power 61:1045-6; 62:126-8 Je 30, Jl 28 '25; Discussion. Am Inst E E J 44:1339-41 D '25

Latest development in steam-plant installation in Germany. Power 61:495 Mr 31 '25

Limiting possibilities in steam plants. A. L. Mellanby and W: Kerr. Engineering 119:301-3, 334-6, 366-7 Mr 6-20 '25; Discussion. 119: 294 Mr 6 '25

Long Beach steam station of the Southern California Edison co. F. S. Clark and M. W. Carty. il diags Power 61:246-54 F 17 '25

Lorain plant operates with two pressures. il diags Power Pl Eng 27:1117-23 N 15 '23

Lumber company plant burns refuse with coal; I. T. Williams and sons, Carteret, N.J. il diag plan Power Pl Eng 29:318-22 Mr 15 '25

Margins of possible improvement in the central-station steam plant. E. L. Robinson. diags Mech Eng 45:685-90 D '23; Same. Engineering 117:189-92 F 8 '24; Same. Gen Elec R 27:334-44 My '24; Same cond. Power Pl Eng 28:132-5 Ja 15 '24; Excerpts. Power 58:890-2 D 4 '23

Metropolitan power co. is installing 30,000 kw. at Middletown, Pa. diags Power Pl Eng 28: 160-1 Ja 15 '24; Power 58:1026-7 D 25 '23

Modern steam practice. T. G. Otley. Elec R (Lond) 97:291-2 Ag 21 '25

Municipal service for Muscatine. il diag plans Power Pl Eng 28:984-90 O 1 '24

National plate glass co. completes new power plant at Ottawa, Ill. il diags plans Power Pl Eng 29:1080-6 N 1 '25

Das neuzeitliche elektrizitätswerk. G. Klingenberg. il plan Zeit Ver Deutsch Ing 69: 1285-8 O 10 '25; Same (Station design in Germany). Elec W 86:652-5 S 26 '25; Abstract. Power 62:857-8 D 1 '25

New Byllesby plant near Muskogee. il diags plan Power 60:562-8 O 7 '24

New plant of American seating co. burns wood refuse. il diags Power 59:892-7 Je 3 '24

New plant of Pittsburgh plate glass co. at Milwaukee. il Power 61:760-4 My 19 '25

New power plant of the Bryant paper co. il diags Power 59:710-15 My 6 '24

New station of New York Edison company. il Power 61:808 My 19 '25

New station under construction at Peoria, Illinois. il diags Power 59:630-3 Ap 22 '24

New steam plant of Southern power company in operation at Duncan, S.C. W. S. Lee. il Manuf Rec 86:94 N 6 '24

New vacuum oil company plant at Olean, N.Y., illustrates refinery practice. il diags plan Power Pl Eng 28:1082-8 N 1 '24

STEAM plants—*Continued*
New Waukegan plant handles increased load. il diags plans Power Pl Eng 28:119-26 Ja 15 '24; Power 59:80-6 Ja 15 '24; Elec W 83: 78-86 Ja 12 '24
One billion for new construction; record steam and hydro-electric development under way during 1924. maps Elec W 85:14-21 Ja 3 '25
Operating Diesel engine in combination with a steam plant. J. W. Crow. Power 61:131 Ja 27 '25
Ottawa silica co. operates new plant. il diag plan Power Pl Eng 28:215-18 F 15 '24
Outstanding features of Swedish practice in steam power production. H. A. Lundberg. Engineering 118:503 O 3 '24
Paper mill treats feed water twice. il diags Power Pl Eng 28:417-24 Ap 15 '24
Parallel operation of hydro and steam plants. F. A. Allner. diags Mech Eng 47:727-31 S '25; Abstract. Power 61:886-7 Je 2 '25
Philadelphia's new Richmond station. il plans Elec W 85:1074-5, 1077 My 23 '25
Power for the Bridge & Beach mfg. co. il charts diags Power Pl Eng 28:267-71 Mr 1 '24
Power station heat balance; report of prime movers committee of N.E.L.A. Power 62: 426-7 S 15 '25
Present practice in steam generation in the United States. D. S. Jacobus. Power 60: 368-70 S 2 '24
Prime movers committee reports; power-station heat balance; abstract. Mech Eng 46: 556 S '24
Problems in thermodynamics and steam power plant engineering; Problems in thermodynamics by A. H. Blaisdell; Problems in steam power plant engineering by T: G. Estep. 163p Wiley '25
Proceedings of the first World power conference; steam power production. diags Engineering 118:39-42 Jl 11 '24
Profit possibilities of vacuum in the power plant. J. T. Beard, 2d. il Ind Management 67:115-19 F '24
Progress in steam generation during the year. D: Brownlie. Soc Chem Ind J (Chem & Ind) 43:1287-9 D 26 '24
Purdue university builds new power plant. il diags plans Power Pl Eng 29:876-83 S 1 '25
Rebuilding an old steam engine plant. il plan Power Pl Eng 28:746-8 Jl 15 '24
Remodeling a power plant to improve performance. il diag Elec Ry J 62:893-5 N 24 '23
Report of Macy's power plant for the year 1924. Power 62:15 Jl 7 '25
Revamping municipal electric plant at Hannibal, Mo. il plan Power 59:394-7 Mr 11 '24
Revamping station at Springfield, Mo. J. D. Bowles. il diags plan Power 61:166-70 F 3 '25
Die rheinische braunkohle; neue dampfwirtschaft in brikettfabriken. Grunewald. il diags Zeit Ver Deutsch Ing 69:1005-12 Ag 1 '25
Salt manufacturer installs 3625 kw. il charts diags Power Pl Eng 28:317-22 Mr 15 '24
Saving fuel in paper plants. J. A. Madsen. Power 62:457 S 22 '25
Seal Beach plant operating; abstracts. J. G. Rollow and D. L. Galusha. il diags plans Elec W 85:1116, 1123-7 My 30 '25; J Elec 54: 576-80 Je 15 '25
Seal Beach power station. il diags plans Power Pl Eng 29:618-30 Je 15 '25
Seal Beach power station. J. G. Rollow and C. W. E. Clarke. il diags plan Elec J 22: 281-5 Je '25
Seal Beach station of the Los Angeles gas and electric corporation. il plans Power 61: 856-61 Je 2 '25
Small steam power plants. Engineering 117: 500-1 Ap 18 '24
Standby steam station at Winnipeg. Power Pl Eng 29:980 S 15 '25
Station fired with oil and coal; design of 8,000-kw. plant for Sedalia, Mo. E. J. Burger. il diag plan Elec W 84:1039-43 N 15 '24
Steam station developments. il Elec W 85:22-3 Ja 3 '25
Steam stations under construction or going into operation 1925-1926. Elec W 85:1204 Je 6 '25
Steel Point station at Bridgeport. W. F. Thompson. il diag plan Power 59:238-44 F 12 '24
$3,500,000 electric power plant of the Kentucky utilities company, near Pineville, completed. il Manuf Rec 86:80-1 N 20 '24
Trenton Channel plant of the Detroit-Edison co. C. H. Berry. il diags plan Power 59:848-57 My 27 '24
Trenton Channel plant of the Detroit Edison company. C. F. Hirshfeld. diags maps Am Inst E E J 44:708-18 Jl '25; Discussion. 44: 886-95 Ag '25
Vacuum oil co. plant at Paulsboro, N.J. il diags plan Power Pl Eng 28:631-6 Je 15 '24
Valmont station features. R. F. Throne and W. D. Hardaway. il diags plan Elec W 85:1252, 1257-62 Je 13 '25
Valmont station now in service. R. F. Throne. il diags Power Pl Eng 29:932-40 S 15 '25
Valmont steam plant of the Public service company of Colorado. il diags plan J Elec 55:160-6 S 1 '25
Wayne county infirmary and hospital plant at Eloise. il diag Power 62:434-7 S 22 '25

See also Boiler plants; Boilers; Electric plants; Exhaust steam; Feed water heating; Hydroelectric plants—Auxiliary plants; Piping (power plants); Power plants; Steam; Steam engineering; Steam engines; Steam turbines

Accidents

Injury through escaping steam. A. L. H. Street. Power 60:859 N 25 '24

By-product power

Balancing power and process steam in paper mill. H. G. Ingraham. il diags plan Power 62:474-8 S 29 '25
C. B. & Q.'s model coal burning power plant; steam for shop requirements and for compressing air. il plan Ry Age 77:989-92 N 29 '24
Combining the heating system with small power and lighting plants. C: L. Hubbard. il plan Sanitary & Heat Eng 103:249-50 Ap 17 '25
Eagle paper company now produces own power. il diags Power Pl Eng 29:497-9 My 1 '25
Electric power as a byproduct of process steam generation. T. Maynz. Chem & Met Eng 32:5-9 Ja 5 '25
Greenock corporation waste heat installation; a sugar refinery steam plant. W: Hall. il Elec R (Lond) 95:282-4 Ag 22 '24
Hat factory finds it can generate its own power economically. F. A. Westbrook. il Power 60:1066 D 30 '24
Power and heating for the small manufacturing plant. D: M. Myers. diag Power 62:524-6 O 6 '25
Power and heating load supplied by noncondensing and condensing turbines. A. Iddles. il diags Power 62:314-17 S 1 '25
Power and process steam from byproduct producer gas. C. H. S. Tupholme. il diags plans Chem & Met Eng 31:300-3 Ag 25 '24
Power as a byproduct of process steam. W. G. Diman. il Power 61:286-7 F 24 '25
Process steam, with power as a by-product. R. E. S. Geare. Ind Management 66:366-7 D '23
Small industrial plant generates current at low cost; combined heating and generating. il Power 60:754-6 N 11 '24
Which—super power or super heat. E. Douglas. Am Ind 25:5-8 D '24

STEAM plants—*Continued*

By-product process steam

Canning company makes power economically. R. W. Richardson. il diag plan Power Pl Eng 29:907-10 S 1 '25

Gemischte kraft- und wärmeanlagen. F. Niethammer. diags Zeit Ver Deutsch Ing 69: 861-6 Je 27 '25

Getting the most out of waste steam. C: P. Putnam. Power 60:604 O 14 '24

Combined power and heating

Problems in the utilization of exhaust steam. C: L. Hubbard. diags Power 61:568-70, 685-7 Ap 14, My 5 '25

Costs

Bids on boiler auxiliary equipment of Detroit municipal plant. Power 61:605-7 Ap 21 '25

Bids on equipment for Detroit municipal plant. Power 60:652-4; 62:97-100 O 21 '24, Jl 21 '25

Design of steam power plants for economy. J. A. Powell. Power Pl Eng 29:630-3 Je 15 '25

Finding the cost of exhaust as compared to live steam. C. E. Colburn. Power 59:759-60 My 13 '24

Increased economy warrants increased investment. C. W. De Forest. Elec W 86:605-7 S 26 '25

Influence of water on the location of giant power plants. A. Ulmann, jr. Ann Am Acad 118:141-8 Mr '25

New methods cut power plant costs. C. E. Killinger. il Management & Adm 9:325-8 Ap '25

Operating performance of steam-generating stations. V. E. Alden. Elec W 86:633-48 S 26 '25

Relative cost of live and exhaust steam. Power 59:339-40, 538-9, 834-5, 874; 60:27 F 26, Ap 1, My 20-27, Jl 1 '24

Relative cost of water and steam power. Power 59:827-8 My 20 '24

Saginaw River steam plant costs explained. H. F. Eddy. Power 60:615-16 O 14 '24

Salem station production costs in 1923. Elec W 83:832 Ap 26 '24

Use of gas coke for raising steam. E. W. Dickinson. diags Elec R (Lond) 97:87-9 Jl 17 '25

Design

Analysis of steam station design; an interview with C. F. Hirshfeld. Elec W 86:609-13 S 26 '25

Design features of Trenton Channel. P. W. Thompson. il plans Elec W 83:1118-28 My 31 '24

Design of steam power plants for economy. J. A. Powell. Power Pl Eng 29:630-3 Je 15 '25

Der einfluss der neueren wärmetechnischen entwicklung auf den kraftwerksbau. F. Ohlmüller. diags Elektrotech Zeit 45:385-9 Ap 24 '24

Present tendencies in the design of large power plants. W. C. L. Eglin. Elec J 21:198-9 My '24

Ratios in power-plant design. J: G. Fairfield. Power 61:1028-31 Je 30 '25

Efficiency

Comparative performance of stations. Power 61:806 My 19 '25

Electric power and coal consumption. Economist 101:298-9 Ag 22 '25

Highest efficiency from industrial steam plants. W. Slader. Power 59:483-6 Mr 25 '24

Improving financial efficiency by increasing heat-absorbing capacity of the steam generating unit. H. M. Vehling and H. S. Crawford. Power 62:92-3 Jl 21 '25

Improving steam turbine operation. J: M. Drabelle. il Power Pl Eng 28:478-80 My 1 '24

Increasing the efficiency and capacity of existing steam power plants. A. Davidson. diags Power 61:733-4 My 12 '25

Ingenuity saves fuel in office building. il Power 61:778-9 My 19 '25

Methods of obtaining a heat balance. diags Power Pl Eng 29:694-5, 737-9 Jl 1, 15 '25

New Crawfordsville unit shows high economy. il diags Power Pl Eng 28:1128-33 N 15 '24

New plant at Fort Dodge shows high economy. il diags Power 60:676-81 O 28 '24

Operating results at Philo; Ohio power company's plant sets new record for thermal efficiency. il Power 61:720-3 My 12 '25

Power economies through load dispatching. H: A. Richardson. Ind Management 70:1-4 Jl '25

Power station efficiency control. J: Bruce. 24p Pitman '24

Pulverized fuel and efficient steam generation; abstracts. D: Brownlie. Engineer 136: 665 D 21 '23; Elec R (Lond) 93:956-7 D 21 '23; Discussion. Engineer 136:695-6; 137:14, 42, 68, 103, 128, 146 D 28 '23-F 8 '24; Elec R (Lond) 93:957-8 D 21 '23

Reheating in central stations. W. J. Wohlenberg. Power 58:899-901 D 4 '23; Same. Mech Eng 46:259-62 My '24

Steam generation and the utilization of fuel. Power 60:164-5 Jl 29 '24

Steam-loss prevention in finishing. H. M. Burke. il diag Textile World 64:3827+; 65: 487+ D 29 '23, Ja 26 '24

Steam vs electrically driven plants. W. T. Sandstrom. Refrig W 60:19 Jl '25

Variation of power station efficiency with output. R. H. Parsons. Engineering 120:33-5 Jl 10 '25

Equipment

Additional power for the tri-cities; Riverside station of the United light & power co. il diags Power Pl Eng 29:516-22 My 15 '25

Bids on equipment for Detroit municipal plant. Power 60:652-4; 62:97-100 O 21 '24, Jl 21 '25

Boiler and turbine room instruments. Power Pl Eng 29:283-5 Mr 1 '25

Electrical features of Long Beach station. il diags Power Pl Eng 29:344-7 Mr 15 '25

Electrical features of the new Long Beach steam plant. G. A. Fleming and E. R. Stauffacher. il diags J Elec 54:199-204 Mr 15 '25

Features of the new Sioux City station. K. M. Irwin. il diag Elec W 86:684-9 O 3 '25; Same. Power Pl Eng 29:1034-41 O 15 '25; Excerpt. Mech Eng 47:1156 D '25

High Bridge steam plant at St Paul. il diags plan Power 60:1006-13 D 23 '24

Latest development in Pacific coast steam plant practice; report of Prime movers bureau, Pacific coast electrical association. J Elec 54:501-11 Je 1 '25

Long Beach steam station of the Southern California Edison co. F. S. Clark and M. W. Carty. il diags Power 61:246-54 F 17 '25

Low operating costs and fixed charges at Pine Grove station. G. G. Hollins. il diags Power Pl Eng 29:222-7 F 15 '25

Mechanical design of Weymouth power station. E. W. Norris. il diags Mech Eng 47: 719-23 S '25

Miami Fort power station. Power 60:1067-8 D 30 '24

New addition to Joliet plant completed. il diags plan Power Pl Eng 29:249-54 F 15 '25

Philo station establishes record of economy. il diags Power Pl Eng 29:570-81 Je 1 '25

Power plant auxiliaries and their relation to heat balance. A. L. Penniman, jr. plan Am Inst E E J 43:118-21 F '24; Same abr. Power Pl Eng 28:389-91 Ap 1 '24; Same cond. Power 59:581 Ap 8 '24; Discussion. Am Inst E E J 43:1082-3 N '24

Present trend in heat balance. Power 60:497 S 23 '24

Prime movers committee during 1923 and 1924. N. Stahl. Elec J 21:189-91 My '24

Progress of prime movers; abstracts. W. H. Patchell. Engineer 137:332-4 Mr 28 '24; Engineering 117:412-14 Mr 28 '24; Elec R (Lond) 94:591-2 Ap 11 '24; Electrician 92:454 Ap 11 '24; Power 59:681-3 Ap 29 '24; Power Pl Eng 28:611-12 Je 1 '24

STEAM plants—Equipment—*Continued*
Riverside station of the United light and power company. il diags plan Power 61:46-51 Ja 13 '25
Saginaw river steam plant of Consumers power company. il diags plans Power 60: 122-9 Jl 22 '24
Seal Beach power station. il diags plans Power Pl Eng 29:618-30 Je 15 '25
Selection of auxiliaries for steam operated pumping stations. F. G. Cunningham. Am Water Works Assn J 11:341-57 Mr '24; Excerpt. Eng & Contr (W W) 62:109-12 Jl 9 '24; Discussion. Am Water Works Assn J 11:705-16 My '24
Some operating provisions at the Williamsport station. il Power 60:762-4 N 11 '24
Somerset another step toward super-power. il diags plans Power Pl Eng 29:368-76 Ap 1 '25
Study of prime movers; report of committee of Pacific coast electrical association. il diags J Elec 52:432-6 Je 1 '24
Super-power plant; Ford Canadian power plant at Walkerville, Ont. F. J. Crolius. il diag Blast F & Steel Pl 13:54-8+ Ja '25
Turbine- and boiler-room auxiliaries; abstracts. G. G. Bell. Mech Eng 47:188-91 Mr '25; Power 61:356, 589-90, 710-11 Mr 3, Ap 14, My 5 '25

Heating and ventilation

Heating and ventilating requirements of a power station; new Hudson Avenue generating station of the Brooklyn Edison company. C: S. Peace. diags plan Heat & Ven 22:54-60 My '25
Heating and ventilation of a modern steam power station. D. S. Boyden and A. B. Williams. diags plans Am Soc Heat & V E J 31:231-44; Discussion. 244-6 Ap '25

High pressure

Benson super-pressure plant. P. W. Swain. il diags plan Power 57:796-801, 842-6 My 22-29 '23; Abstract. Elec R (Lond) 92:955-6 Je 15 '23; Discussion. Power 58:190-1; 59:104 Jl 31 '23, Ja 15 '24
Die dampferzeugung auf der weltkraftkonferenz in London 1924. F. Weber. diags Zeit Ver Deutsch Ing 68:1309-14 D 20 '24
Development and future of high pressures and temperatures. H: B. Oatley. Power 58: 966-7 D 11 '23
Development of high pressure steam boilers. D. S. Jacobus. diags Power Pl Eng 27:1047-50 O 15 '23; Same. Engineer 136:400-1 O 12 '23; Same cond. Power 58:587-8 O 9 '23; Excerpt. Elec W 82:699-701 O 6 '23; Abstract. Electrician 92:13 Ja 4 '24; Discussion. Elec W 82:817-18 O 20 '23
Developments in steam generator design. W. S. Findlay. Cassier's Ind Management 12: 306+ My '25
Der einfluss des hochdruckdampfs auf die entwicklung industrieller dampfanlagen. C: Eberle. diags Zeit Ver Deutsch Ing 68:1009-16 S 27 '24
German engineers discuss high-pressure steam. Power 59:507 Mr 25 '24
High-back-pressure turbines as applied to existing stations. H. Dahlstrand. Power 61: 866-7; Discussion. 887 Je 2 '25
High pressure, reheating, and regenerating for steam power plants. C. F. Hirshfeld and F. O. Ellenwood. Sibley J 38:28-35 F '24; Same cond. Mech Eng 46:179-83+ Ap '24; Same cond. Power Pl Eng 27:1244-8 D 15 '23; Same cond. Power 58:893-5 D 4 '23
High-pressure station on Ohio; Miami Fort plant. il Elec W 84:1304-6 D 20 '24
High pressure steam research in Germany. F. Heller. Blast F & Steel Pl 12:345-6 Jl '24
High pressures affect boiler accessories. il diags Power Pl Eng 28:1191-5 D 1 '24
High pressures and high superheats in modern steam-power plant practice. W. G. Noack. diags Mech Eng 46:40-2 Ja '24
High pressures and high temperatures in central stations. W. S. Monroe. diags Power 60:87-91 Jl 15 '24
Higher steam pressures and temperatures. Engineer 138:606-7 N 28 '24
Higher steam pressures and temperatures; report of prime movers committee of the N.E.L.A. Power 62:662-3 O 27 '25
Highest pressure steam plant; Weymouth steam plant of the Edison electric illuminating co. of Boston. L. C. Breed. Blast F & Steel Pl 13:179-80 Ap '25
Hochdruckdampfbetrieb. Dr Löffler. il diags Zeit Ver Deutsch Ing 69:1149-59 S 5 '25
Höchstdruckdampferzeugung durch atmoskessel. E. Josse. il diags Zeit Ver Deutsch Ing 69:169-73 F 14 '25
Large saving possible in industrial plants by use of high steam pressures. A. F. Sheehan. Power 60:378-9 S 2 '24; Discussion. 60:622, 776 O 14, N 11 '24
Löffler system of high-pressure steam generation. diag Engineering 119:473-4 Ap 17 '25
New high pressure power plant at Williamsport. il Blast F & Steel Pl 12:302-3 Je '24
New method of generating high pressure steam. C. Commentz. Power Pl Eng 29:644 Je 15 '25
New slant on steam pressures. Power 59:186 Ja 29 '24
Operation comparison of high- and low- pressure boilers. H. A. Woodworth. Power 61: 541 Ap 7 '25
Operation of 1200-lb. pressure generating unit at the Weymouth power station, Edison electric illuminating co., Boston. E. W. Norris. il diag Gen Elec R 27:714-18 N '24
Philo station establishes record of economy. il diags Power Pl Eng 29:570-81 Je 1 '25
Pressure, superheat, steam extraction and reheating as affecting power plant economy. E. Berg. diags J Fr Inst 197:727-39 Je '24; Same abr. Power Pl Eng 28:592-4 Je 1 '24; Abstract. Power 59:544 Ap 1 '24
Recent development in the use of high-pressure and superheated steam. B. N. Broido. il diags Eng Soc W Pa 40:299-330 D '24; Same cond. Power Pl Eng 29:130-3 Ja 15 '25; Same cond. Power 61:352-4 Mr 3 '25; Abstract. Mech Eng 47:295-6 Ap '25; Discussion. Eng Soc W Pa 40:331-8 D '24
Steam generated at 3200 lb. diag Power Pl Eng 28:97 Ja 1 '24
Steam generation under critical conditions; Benson process. D: Brownlie. il diag Soc Chem Ind J (Chem & Ind) 44:213-19 F 27 '25; Same cond. Chem Age (Lond) 12: 151-2 F 14 '25; Abstracts. Engineering 119: 201 F 13 '25; Mech Eng 47:358 My '25
Die technischen und wirtschaftlichen aussichten von höchstdruckdampf. F. Münzinger. diags Zeit Ver Deutsch Ing 68:137-46 F 16 '24
Theory of the Benson superpressure steam generator. Soc Chem Ind J (Chem & Ind) 43:781-2 Ag 1 '24; Same. Blast F & Steel Pl 12:476-7 O '24
Unaflow engine practice of a century ago. Power 61:368-70, 451-2 Mr 10, 24 '25
Use of reheated steam. R. H. Collingham. diags Electrician 94:724-7 Je 19 '25
Using high-pressure steam in the industrial power plant. A. F. Sheehan. Power 62:614-15 O 20 '25
Utilization of heat head. A. G. Christie. Power 60:892-3 D 2 '24; Discussion. 61:32, 150 Ja 6, 27 '25
Weymouth power station of the Edison electric illuminating company of Boston. il plans (supp) Power 61:561-7 Ap 14 '25

Layout

Layout and operation of 1200-lb. steam plant. il diag Power Pl Eng 28:805-6 Ag 1 '24
Lorain plant flow diagrams. Power Pl Eng 27:1120 N 15 '23
Saginaw river steam plant of Consumers power company. il diags plans Power 60: 122-9 Jl 22 '24

Records

Daily steam-plant log used by Middle West company. Elec W 83:785 Ap 19 '24
Engineering analysis characterizes Hudson Avenue operation. E. C. M. Stahl. il charts Power 61:827-30 My 26 '25

STEAM plants—Records—*Continued*
Graphic records. Power 61:668 Ap 28 '25
Heat engine trials committee; discussion of a suggested standard code for tabulating the results of a steam-generating plant trial. Engineer 139:357 Mr 27 '25

Testing
New Crawfordsville unit shows high economy. il diags Power Pl Eng 28:1128-33 N 15 '24

STEAM pump. See Pumps

STEAM research
Bureau of standards reports steady progress with steam research. diag Power 60:766-7 N 11 '24
Calorimeter for steam investigations developed by Bureau of standards. P. W. Swain. il diags Power 60:246-8 Ag 12 '24
L'état actuel des recherches relatives à l'étude des propriétés physiques de la vapeur d'eau. C: Roszak. Soc Ing Civils Bul 78:570-83 Jl '25
Harvard throttling experiments extend data on superheated steam. P. W. Swain. il diag Power 60:329-32 Ag 26 '24
M.I.T. investigates pressure-volume-temperature relation of steam. P. W. Swain. il diag Power 60:284-6 Ag 19 '24
Progress in steam research. il diags Mech Eng 46:81-7+ F '24; Abstract. Zeit Ver Deutsch Ing 68:732-4 Jl 12 '24
Progress in steam research. Mech Eng 47: 103-4 F '25; Abstract. Zeit Ver Deutsch Ing 69:712 My 23 '25; Discussion. J. H. Keenan. Mech Eng 47:174 Mr '25
Steam research. I. V. Robinson. diags Power 62:134-6 Jl 28 '25
Steam research promises much for power-plant engineers. P. W. Swain. Power 60: 200-2 Ag 5 '24

STEAM separators
Steam purifiers cause small fuel loss. Power Pl Eng 29:357, 607 Mr 15, Je 1 '25
Steam separator for locomotives. il diags Engineer 138:566 N 14 '24

STEAM shovels
Bucyrus 120-B steam operated shovel. il Eng & Contr (Equip R) 63:907 Ap 29 '25; Ry Age 78:1042-3 Ap 25 '25; Ry R 76:833 My 2 '25
Construction equipment—past and present. il Eng N 92:785-7 My 1 '24
Continuous tread mountings for railroad type shovels. il Eng & Contr (Equip R) 62:235-6 Jl 30 '24
Facts about steam shovel mining at Jerome. Eng & Min J 119:892 My 30 '25
Marion model 125 shovel. il Eng & Contr (Equip R) 64:247-8 Jl 29 '25; Eng & Min J 120:115-16 Jl 18 '25
Power shovel operating kinks. il Eng & Contr (G C) 63:1085-91 My 20 '25
Revolving steam navvy. il Engineer 138:621 N 28 '24
Steam and electric shovels in open mine excavation. Eng N 95:602-3 O 8 '25
Storing steam shovels for winter. Eng & Contr (R & S) 63:275 F 4 '25
Superheated steam shovel. H. B. Oatley. Min Cong J 10:176-7 Ap '24

STEAM tractors. See Tractors, Steam

STEAM traps
Alco steam trap. diags Engineering 119:447 Ap 10 '25
Armstrong trap for high pressures and temperatures. il Power 61:156 Ja 27 '25
Defective apparatus detected by calculation. G: F. Nordenholt. Power Pl Eng 29:445-6 Ap 15 '25
Eclipse improved steam trap. il Power Pl Eng 29:361-2 Mr 15 '25
Ellis "red head" steam trap. il Power 60: 821 N 18 '24
Konstruktion und verwendung der wasserableiter. A. Gramberg. diags Zeit Ver Deutsch Ing 68:1037-40 S 27 '24
Massip steam trap. diag Engineer 139:608 My 29 '25
New Nicholson steam trap for high pressure. il Power 60:995 D 16 '24
Operating the trap with exhaust in place of live steam improves operation. R. A. Hall. plan Power 59:832 My 20 '24
Power economies through heaters and economizers. F. Juraschek. il diags plan Ind Management 70:178-82 S '25
Recording steam trap. T: Pascoe. il Power 61:383 Mr 10 '25
Steam trap—simple in design and operation. diags Marine R 55:307 Ag '25
Steam traps; their use and abuse. E. W. Riesbeck. il diags Dom Eng 112:25-6+ Jl 11 '25
Theory involved in the design and testing of steam traps. L. C. Price. Sibley J 39:382-5 O '25; Excerpts. Power 62:869-70 D 1 '25
Thermoflex line of steam specialties. diags Heat & Ven 22:84-5 Ja '25
Traps must be properly installed. H. A. Jahnke. diags Power Pl Eng 29:443-5 Ap 15 '25
Will changing the connections to the trap improve its operation? Power 58:918; 59:28, 263, 537 D 4 '23, Ja 1, F 12, Ap 1 '24

See also Steam pipes

Testing
Operating characteristics of radiator traps. Heat & Ven 21:57-60 Ap; 67+ Je '24
Traps should be tested for heat loss. G: E. Gaster. diag Power Pl Eng 28:942-3 S 15 '24

STEAM trucks. See Motor trucks, Steam

STEAM turbines
Advantages of feed-water heating by stage bleeding. R. W. Booze. diag Power 62:211-12 Ag 11 '25
AEG-grenzturbinen für 3000 umdr-min; abstract. il diag Elektrotech Zeit 45:723 Jl 3 '24
L'amélioration d'anciens groupes turbo-générateurs par le remplacement de leurs turbines à vapeur. il Génie Civil 87:233 S 12 '25
Anchored steam chest flexibly piped to turbine. diag Power 62:407 S 15 '25
Application of turbines to small plants. A. Iddles. il diag Power Pl Eng 28:1186-90 D 1 '24; Discussion. H. D. Fisher. 29:156-7 Ja 15 '25
Balancing large rotating apparatus. L. C. Fletcher. il diags Elec J 21:5-10 Ja '24; Abstract. Mech Eng 46:157 Mr '24
Big Four railroad reduces power costs. il plans Power 62:554-6 O 13 '25
Brunner high-pressure turbine shows improved economy. il diags Power 60:498-500 S 23 '24
Brush-Ljungström steam turbine. il Elec R (Lond) 94:36-7 Ja 4 '24
Brush-Ljungstrom turbine. il Electrician 92: 698 Je 6 '24
Central-station auxiliaries. G. G. Bell. Elec W 86:655-6 S 26 '25
Control of power production. C: L. Hubbard. il diags Factory 32:27-9+, 166-9+ Ja-F '24
Cooling turbines with live steam. Power Pl Eng 27:1154; 28:156-7, 618 N 15 '23, Ja 15, Je 1 '24
Critical speed of steam turbine. Power 58:919 D 4 '23
Cross-compound reaction turbine for Hell Gate. Power 58:968 D 11 '23
Cross-compound turbine adaptable to a variety of conditions. E. H. Thompson. il Power 60:50-1 Jl 8 '24
Dampfturbinen für hohen druck und hohe überhitzung; abstract. Elektrotech Zeit 45:342-3 Ap 10 '24
Dampfturbinengründungen. E. Rausch. Zeit Ver Deutsch Ing 69:405 Mr 28 '25
Das De Laval-getriebe. H. B. Karlin. diags Zeit Ver Deutsch Ing 68:327-9 Ap 5 '24
De Laval turbine for high pressure and high temperature steam. Power Pl Eng 28:876-7 Ag 15 '24; Same. Eng & Contr (Equip R) 62:973-4 O 29 '24
Development of the steam turbine; abstract. S. S. Cook. diag Mech Eng 45:710 D '23
Developments in steam-turbine field. E. H. Brown. il diags Power 59:989-92 Je 17 '24

STEAM turbines—*Continued*
Diaphragm leakage in multistage impulse turbines. A. J. Jadot. diags Sibley J 37:110-14+ My '23
Economical loading of turbo-generator units. M. K. Drewry. Power Pl Eng 28:887-8 S 1 '24
Efficiency of steam-turbine nozzles. Mech Eng 46:148-50 Mr '24
Electric power as a byproduct of process steam generation. T. Maynz. Chem & Met Eng 32:5-9 Ja 5 '25
Electrical engineering in 1924. Engineer 139: 38-9 Ja 9 '25
Eliminating trouble with scale in turbine glands. J. F. Jelbart. diag Power 62:335-6 S 1 '25
Entwicklungslinien der dampfkraftmaschinen und die aussichten des gasmaschinenbetriebes. H. Hoff. diags Stahl & Eisen 44: 1482-8; Discussion. 1567-75 N 20, D 4 '24
Erste Brünner steam turbine. E. A. Kraft. diags Electrician 95:65 Jl 17 '25
Extra high-pressure steam turbines. V. Nordström. Engineering 118:178-9 Ag 1 '24
50,000 kw. compound Parsons turbine for the Crawford avenue station. C: Parsons. il diags Power 60:728-30 N 4 '24
First commercial steam turbine in this country. Power 59:412 Mr 11 '24; Same. Locomotive 35:75-7 Jl '24
First World power conference—boilers and turbines. Power 60:207-9 Ag 5 '24
Five hundred thousand horsepower in Ford turbines for River Rouge plant. il diags Power 61:88-94 Ja 20 '25
Floating type of house turbine. R. Kelly. il diags Elec J 22:299-301 Je '25
Das gegendruckverfahren und seine anwendung bei der dampfturbine. G. Zerkowitz. diags Zeit Ver Deutsch Ing 86:147-52, 1026-30, 1093-6 F 16, S 27, O 18 '24
Gegenwärtiger stand der abdampftechnik und abdampfwirtschaft in Deutschland. H. Treitel. diags Zeit Ver Deutsch Ing 68: 896-901 Ag 30 '24
Die hauptarten ortsfester dampfturbinen und ihre verwendung. A. Zinzen. diags Elektrotech Zeit 46:1393-6, 1472-8 S 10, 24 '25
High back-pressure turbine. il Power 61:825-6 My 26 '25
High-back-pressure turbines as applied to existing stations. H. Dahlstrand. Power 61: 866-7; Discussion. 887 Je 2 '25
High efficiency in 1,000-kw. to 6,000-kw. steam turbines. S. A. Moss. il diag Power 61:775-7 My 19 '25
High-pressure turbine with one packing gland. diag Power 59:909 Je 3 '24
High-pressure turbines. diags Engineer 137: 489-90 My 2 '24
High pressures and high superheats in modern steam-power plant practice. W. G. Noack. diags Mech Eng 46:40-2 Ja '24
High pressures and high temperatures in central stations. W. S. Monroe. diags Power 60:87-91 Jl 15 '24
High temperature confined to top of turbine casing. il Power 60:230 Ag 5 '24
How the radial-flow turbine compares with the axial-flow type. il diags Power 59:50-3 Ja 8 '24
Improving steam turbine operation. J: M. Drabelle. il Power Pl Eng 28:478-80 My 1 '24
Impulse and reaction in steam turbines. F. P. Hodgkinson. diags Power 59:174-5 Ja 29 '24
Industrial use of the bleeder turbine. C. C. Brown. Power Pl Eng 28:1134-5 N 15 '24
Installation of steam turbines. J. Y. Dahlstrand. diags Power Pl Eng 29:128-30 Ja 15 '25
Installing non-condensing turbine lowers factory power costs. F. A. Westbrook. il Power 61:896-8 Je 9 '25
Kraftmaschinen im Rheinland. P. Langer. diags Zeit Ver Deutsch Ing 69:1028-9 Ag 1 '25
Large steam turbine generators. W. J. Foster. E. H. Freiburghouse and M. A. Savage. il Am Inst E E J 43:923-31 O '24; Discussion. 44:397-8 Ap '25
Large steam turbines. F. Hodgkinson. Mech Eng 47:186-8 Mr '25; Abstract. Power 61: 550-1 Ap 7 '25
Large turbines give improved service. Power 60:1035-6 D 23 '24
Largest straight reaction turbine—how internal conditions vary with load. E. H. Thompson. il diags Power 59:1016-19 Je 24 '24
Limiting possibilities in steam plants. A. L. Mellanby and W: Kerr. Engineering 119: 301-3, 334-6, 366-7 Mr 6-20 '25; Discussion. 119:294 Mr 6 '25
Metropolitan-Vickers steam turbine. diags Elec R (Lond) 93:953-5 D 21 '23
Mixed-pressure turbine an important link in improving ice plant. F. A. Westbrook. il Power 62:354-6 S 8 '25
Mixed-pressure turbine versus a new steam plant. F. S. Yontsey. il plan Power 59:934-6 Je 10 '24
Modern large steam turbines. L. Helander. diags Power 59:543-4 Ap 1 '24
Neuere englische dampfturbinen. E. A. Kraft. diags Zeit Ver Deutsch Ing 69:85-90, 115-23, 185-91 Ja 24-31, F 14 '25; Discussion. 69:465-70 Ap 11 '25
No end thrust in the Bonom radial-flow turbine. il diags Power 58:981-3 D 18 '23
1,200-lb. boiler and turbine at Weymouth. il diags plans Power 62:394-8 S 15 '25
Operating horizontal turbines. Power 61:631 Ap 21 '25
Operating instructions for large turbines. Power 59:490-1 Mr 25 '24
Operating without a synchronizing spring. G. F. White. diag Power 59:496 Mr 25 '24
Operation of 1200-lb. pressure generating unit at the Weymouth power station, Edison electric illuminating co., Boston. E. W. Norris. il diag Gen Elec R 27:714-18 N '24
Packing glands for steam turbines. J. Y. Dahlstrand. il diags Power Pl Eng 29:740-1 Jl 15 '25
Parsons at Wembley; turbines for South Africa and Chicago. il Electrician 92:697 Je 6 '24
Power and heating load supplied by non-condensing and condensing turbines. A. Iddles. il diags Power 62:314-17 S 1 '25
Power plant exhibits at Wembley. J: B. C. Kershaw. il diags Power 60:131-4 Jl 22 '24
Preparations for rebalancing a small turbo-generator set. V. R. Chadbourne. diag Power 62:416 S 15 '25
Pressure, superheat, steam extraction and reheating as affecting power plant economy. E. Berg. diags J Fr Inst 197:727-39 Je '24; Same abr. Power Pl Eng 28:592-4 Je 1 '24; Abstract. Power 59:544 Ap 1 '24
Prime movers for industrial plants. J: F. Ferguson. Power 59:766-8 My 13 '24
Reasons for horizontal turbine. Power Pl Eng 28:619 Je 1 '24
Recent installations of high-pressure steam turbines. A. Meyer. il Elec R (Lond) 97: 314-15 Ag 21 '25; Same. Power Pl Eng 29: 894-5 S 1 '25
Récents perfectionnements dans la construction des grandes turbines à vapeur, en Angleterre. H. Guérin. diags Génie Civil 84: 619-21 Je 28 '24
Regenerative or stage bleeding cycle. J. Razek. plans Power Pl Eng 29:323-6 Mr 15 '25
Relation of pressure and velocity in various types of steam turbines. F. P. Hodgkinson. diags Power 59:444-5 Mr 18 '24
Review of steam-turbine development. H. Dahlstrand. il diag Mech Eng 47:890-4 O '25
St Paul cuts shop power cost $70,000 by turbine installation. il Ry Age 79:407-8 Ag 29 '25
Sixty thousand kilowatt General electric turbine for Commonwealth Edison co. il Power 60:151-2 Jl 22 '24
Some experiences with a steam turbine driven centrifugal pump in the St Louis water department. L. A. Day. il Am Water Works Assn J 11:548-53 My '24; Same cond. Eng N 92:926 My 29 '24; Abstract. Eng & Contr (W W) 62:824-6 O 8 '24

STEAM turbines—*Continued*
Steady progress in steam power economy; from the Newcomen engine to the mercury boiler. J. T. Beard. il Ind Management 67: 332-4 Je '24
Steam turbine. C: A. Parsons. Engineering 118:469-70 S 26 '24
Steam turbine application in pulp and paper mills. A. G. Darling. il Paper Tr J 77:56-60 D 13 '23; Same. Paper 33:10-12 D 20 '23
Steam turbine—as a study in applied physics. C: A. Parsons. J Fr Inst 199:1-12 Ja '25
Steam-turbine development influenced by higher pressures and reheating. il Power 59: 9-11 Ja 1 '24
Steam turbine-driven pumps for the Rand water board. il diags Engineering 119:412-13, 420, pl 28 Ap 3 '25
Steam turbine for mill driving. il diags Engineering 120:127-30, pl 12 Jl 31 '25
Steam turbine still in the ring. Sci Am 133: 156 S '25
Steam turbines. J. A. Moyer. 5th ed., rev. & enl. 515p Wiley '24
Steam turbines. C: A. Parsons. diags plan Engineering 118:63-7 Jl 11 '24; Same. Engineer 138:140-2 Ag 1 '24; Abstract. Génie Civil 85:371-4 O 25 '24
Steam turbines and condensing equipment. F. Hodgkinson. diags Elec J 21:505-13, 548-59 N-D '24; Abstracts. Mech Eng 46:628-31 O '24; Power 60:533-5 S 30 '24; Discussion. O. F. Junggren. Power 61:290-5 F 24 '25
Steam turbines for high pressures. C. F. Stork. Engineering 118:69-70 Jl 11 '24
Steam utilisation—turbines. Elec R (Lond) 95:128-9 Jl 25 '24
Steel case turbines designed for high pressures. il Power Pl Eng 28:360 Mr 15 '24
Superheated steam. H. F. Ely and L. Weil. il diags Ind Management 67:212-15 Ap '24
Les tendances actuelles dans l'emploi de la vapeur à haute pression. Génie Civil 85: 405-6 N 1 '24
30,000 k.w. steam turbo-generator at Rotherham. il diags Engineering 117:65-7, 134-6, pl 3, 5-8 Ja 18, F 1 '24; Abstract. Power 59:582 Ap 8 '24
Turbine à vapeur radiale, système Bonom, sans poussée axiale. diags Génie Civil 84:482 My 17 '24
Turbine nozzle loss analyzed by air-flow measurement. il diags Power 60:875-7 D 2 '24
Turbine packing, bleeding arrangements and other features of Westport station addition. il diags Power 60:605-8 O 14 '24
Les turbines à vapeur de la Société alsacienne de constructions mécaniques. Génie Civil 86: 240-1 Mr 7 '25
12,000-kw. steam turbo-generator at the British Empire exhibition. il diags Engineering 117:721-3, pl 72-4 Je 6 '24
Vergleich zwischen einer dampfturbinen- und einer dieselmotorenanlage von 7500 kw spitzenleistung in Amerika und in Deutschland. F. Ohlmüller. diags Elektrotech Zeit 46:1025-30 Jl 9 '25
What the World power conference showed about modern steam turbines and their design. Elec W 84:737-40 O 4 '24
Why turbine-driven pumps were selected for Fairmount station. L. A. Quayle. diags Power 60:1057-60 D 30 '24

See also Locomotives, Steam turbine

Bearings

Thrust bearing on turbine changed. R. H. Morris. diag Power Pl Eng 29:995-6 O 1 '25

Blades

Corrosion and erosion of steam turbine blading; abstracts. E. Honegger. diags Engineer 138:sup28-9 F 27 '25; Power 61:511 Mr 31 '25; Discussion. E. I. Baker. 61:800 My 19 '25
Design and manufacture of blading for steam turbines. L. L. Smith. il diags plan Elec J 22:202-10 My '25
Deterioration of turbine blading in service. C. H. S. Tupholme. Power Pl Eng 29:387-8 Ap 1 '25
Dirty feed water cuts turbine blades. L. R. Wagner. il Power 60:1065-6 D 30 '24; Discussion. 61:348 Mr 3 '25
How multi-exhaust turbine blades are manufactured. il Power 62:246-9 Ag 18 '25
Milling turbine impulse blades. il Mach 32: 220-1 N '25
Multiple exhaust blading in steam turbines. P. C. Eppelsheimer. il diags Power Pl Eng 29:282-3 Mr 1 '25
Multiple exhaust blading used in English turbine. diag Power Pl Eng 28:978 S 15 '24
Steam turbine blading. il diags Power 59:200-4, 251-4, 293-6, 329-30 F 5-26 '24
Steam turbine blading. J. C. Read. bibliog diags Inst E E J 61:1109-14 O '23
Turbine blade manufacture: Westinghouse turbine works, So. Phila. il Blast F & Steel Pl 13:208-13 My '25
Turbine blades in the making. F. H. Colvin. il Am Mach 63:135-8, 195-8 Jl 23-30 '25

Control

Adjusting Westinghouse valve gears in the field. L. Long. il diags Power 61:179-82 F 3 '25
Reducing the governing loss to improve turbine economy. M. K. Drewry. Power 62:402-3 S 15 '25
Starting and stopping steam turbines. C. C. Brown. Power 60:489 S 23 '24
Turbine controlled by temperature or pressure. il diag Power Pl Eng 28:162 Ja 15 '24

Cost of operation

Value of efficiency in transforming and distributing energy. C: E. Lucke. Mech Eng 46:317-24, 380-5 Je-Jl '24

Design

Designing turbines for maximum steam pressures. Power 61:355 Mr 3 '25
European turbine efficiencies. H. F. Schmidt. Power 60:263 Ag 12 '24
Proportioning of impulse blades and nozzles. G. Stoney. Engineering 118:473 O 3 '24
Refinements in turbine building. il Power 61: 12-15 Ja 6 '25
Rotating disk. E. L. Thearle. diags Mech Eng 46:670-4 N '24; Discussion. D. Dresden. 47: 224-5 Mr '25
Tendencies in steam turbine construction. il diags Power Pl Eng 28:1183-6 D 1 '24
Tendencies in steam turbine practice abroad. F. Hodgkinson. Power 61:78 Ja 13 '25
Der wahre wirkungsgrad der gleichdruckturbine. H. Richter. diags Zeit Ver Deutsch Ing 69:603-4 My 2 '25; Abstract (True efficiency of impulse turbines). Mech Eng 47: 589-90 Jl '25

Erection

Installing an 1,875-kva. impulse steam turbine. C. C. Brown. il Power 60:648-50 O 21 '24; Discussion. B. M. Thornton. 60:816-17 N 18 '24

Failures

Corrosion of iron; steam turbine buckets. W. R. Whitney. il Ind & Eng Chem 17:386-7 Ap '25; Abstract. Power 62:113-14 Jl 21 '25
Explosion of a 20,000 kw. turbine results from an undetermined cause. Power 58:1032; 59: 539 D 25 '23, Ap 1 '24
Shanghai and other turbine failures. Engineering 117:18-19 Ja 4 '24; Elec R (Lond) 94:79 Ja 11 '24
Steam turbine accident at Pittsfield, Massachusetts. il Locomotive 35:236-7 O '25
Turbine breakdown at the Shanghai electricity works. Elec R (Lond) 94:650 Ap 25 '24

Foundations

Foundations for steam turbines. W. Slader. il diags Power Pl Eng 29:232-5 F 15 '25
Special constructed foundation for vibrationless operation. H. H. Lupinski. diag Ind Eng 82:392 Ag '24
Vom bau der fundamente für turbogeneratoren. Dohme. diags Elektrotech Zeit 46:253-8 F 19 '25

STEAM turbines—*Continued*

Gearing

Cross-compound impulse turbine geared to 4,000-kw. d.-c. generator. diags Power 60: 360-2 S 2 '24

Energieumformung durch zahnradvorgelege. diags Elektrotech Zeit (special no.) 45:37-9 Ag 28 '24

Geared turbines of the English electric company. Engineering 118:698-9, 760-3, pl 73 N 21, D 5 '24

Inspection

Periodic examinations of steam turbines. Power 59:562-3 Ap 8 '24

Lubrication

Can we standardize power plant lubrication? A. F. Brewer. il Ind Management 69:73-4 F '25

Correct lubrication for the steam turbine. C. C. Brown. Power Pl Eng 28:323-5 Mr 15 '24

Improving the lubrication system of steam turbines. C. C. Brown. diag Power 60:420-2 S 9 '24

Maintaining quality of steam turbine oils in service. C: H. Bromley. diags plan Power 59: 125-8 Ja 22 '24

Maintaining the quality of steam turbine oil in service. C. H. Bromley. Blast F & Steel Pl 12:455 O '24

Oiling small turbines. H. D. Fisher. Power 60:333-4 Ag 26 '24

Steam turbine oils. J: B. Rathbun. Pet Age 13:67+ Je 1; 67+ Je 15; 14:64+ Jl 1 '24

Turbine lubrication. N. E. Funk. diag Ind & Eng Chem 16:1080-4 O '24

Turbine oil deposit. A. G. Blakeley. Ind & Eng Chem 17:250 Mr '25

Manufacture

Annealing large castings to prevent distortion. J. A. Capp. il Am Mach 63:385-7 S 3 '25

Assembling cylinder of 50,000-kilowatt turbine. il Power 62:600-1 O 20 '25

Brush-Ljungström turbines; their manufacture at Loughborough. il Electrician 93:582-3 N 21 '24; Engineering 118:699-700, pl 74-6 N 21 '24; Elec R (Lond) 95:820-2 N 28 '24

Design and manufacture of blading for steam turbines. L. L. Smith. il diags plan Elec J 22:202-10 My '25

How multi-exhaust turbine blades are manufactured. il Power 62:246-9 Ag 18 '25

Large turbine exhaust hood castings made. J. M. Sampson. il Foundry 53:223-6+ Mr 15 '25

Making steam turbine diaphragm blades. il Iron Age 114:1047-51 O 23 '24

Milling turbine impulse blades. il Mach 32: 220-1 N '25

60,000-kw. turbine casting. il Gen Elec R 28: 328 My '25

Skeleton pattern plan for turbine casting. W. B. Kresge. il Foundry 53:434-5 Je 1 '25

Some structural details of a reaction turbine. il Power 61:908-9 Je 9 '25

Steam turbine blading. il diags Power 59:200-4, 251-4, 293-6, 329-30 F 5-26 '24

Turbine blade manufacture; Westinghouse turbine works, So. Phila. il Blast F & Steel Pl 13:208-13 My '25

Turbine blades in the making. F. H. Colvin. il Am Mach 63:135-8, 195-8 Jl 23-30 '25

Performance

Analysis of lost time in turbine installations. Elec R (Lond) 96:654 Ap 24 '25

Conditions affecting steam turbine economy. J. Y. Dahlstrand. Power Pl Eng 28:1041-3 O 15 '24

Effect of vacuum on overall efficiency. B: F. Rogers. Power Pl Eng 28:889 S 1 '24

Maximum commercial efficiency of steam turbines and the relation between thermodynamic efficiency and K; abstract. R. Dowson. Mech Eng 46:97-8 F '24

Mesure du rendement des turbines à vapeur. diag Génie Civil 86:47 Ja 10 '25

Stage efficiencies of impulse turbines. L. J. Levit. Power 60:809-10 N 18 '24

Steam extraction or pass-out steam turbines. W. S. Burge and J. P. Chittenden. diags Engineer 138:702-4 D 19 '24; Abstract. Engineering 118:744-5 N 28 '24

Turbine blades move at ten times safe pulley speed. E. H. Thompson. diags Power 60:460-2 S 16 '24

Turbine performance from steam quality measurements. N. L. Johnson. diag Power 60: 691-2 O 28 '24; Discussion. 60:989-90; 61: 189 D 16 '24, F 3 '25

Repair

Casting composition around monel; battleship turbine buckets re-made in unusual way. B. R. Ware. il Iron Age 27:1026-7 O 15 '25

Correcting trouble in small steam turbines. R. A. Cultra. diags Power Pl Eng 27:1221-3 D 15 '23

Stopping a turbine steam chest leak by special gasket. C: E. Colborn. diags Power 61: 997 Je 23 '25

Resuperheating

Increase in thermal efficiency due to resuperheating in steam turbines. W. E. Blowney and G. B. Warren. Gen Elec R 28:662-70 S '25; Same cond. Mech Eng 47:455-60 Je '25; Same cond. Power Pl Eng 29:704-6 Jl 1 '25; Discussion. Mech Eng 47:460-1 Je '25

Possible methods of reheating steam. J. R. McDermet. Power 60:1014-16 D 23 '24

Use of reheated steam. R. H. Collingham. diags Electrician 94:725-7 Je 19 '25

Safety devices and measures

Atmospheric relief valves eliminated at Toronto station. il diags Power 62:442-4 S 22 '25

Specifications

Turbine specifications and bids for Detroit municipal plant. Power 58:844-5 N 27 '23

Tables, calculations, etc.

Calculating expansion and aligning steam pipes to large turbines. il plans Power 62: 594-7 O 20 '25

Calculating steam flow for turbines. J. Y. Dahlstrand. chart Power Pl Eng 28:945-6 S 15 '24

Characteristic curves of steam turbines. J. Y. Dahlstrand. diag Power Pl Eng 28:797-9 Ag 1 '24

Determining the leaving loss and limiting vacuum of a steam turbine. B. C. Sprague. Power 60:976-7; 61:419-20 D 16 '24, Mr 17 '25

Determining the vacuum correction curves for turbine units. L. J. Levit. chart Power 62: 200-3 Ag 11 '25

Figuring steam requirements for combined bleeder-mixed-pressure turbine. J. Y. Dahlstrand. il diags Power 62:42-5 Jl 14 '25

Maintaining impulse-turbine efficiency by checking the condition curve. R. R. Walden. chart Power 59:823-5 My 20 '24

Modern tendencies in steam-turbine power plants. E. Berg and F. V. Smith. diags Mech Eng 46:577-82 O '24; Same abr. Marine Eng 29:305-9 My '24; Abstract. Power 60:18-20 Jl 1 '24

Reheating in central stations. W. J. Wohlenberg. Power 58:899-901 D 4 '23; Same. Mech Eng 46:259-62 My '24

Standing torque of small turbines. J. Y. Dahlstrand. Power Pl Eng 29:184-5 F 1 '25

Steam extraction or pass-out steam turbines. W. S. Burge and J. P. Chittenden. diags Engineer 138:702-4 D 19 '24

Thermal efficiency of large steam turbines. Power 60:170-1 Jl 29 '24

Testing

Checking the performance of the turbine room. T. Maynz. Power 59:324-5 F 26 '24

Checking turbine efficiency by means of stage pressures. M. K. Drewry. Power 62:329 S 1 '25

STEAM turbines—Testing—*Continued*
Efficiency test of a 15,000-kilowatt turbo-generator. J. E. Woodwell. Power 61:128-31 Ja 27 '25
Leistungsversuche an einer gegendruckdampf-turbine. A. Stodola. Zeit Ver Deutsch Ing 69:1177-81 S 12 '25; Same cond. (Consumption tests on a back-pressure turbine). Engineering 120:427-9 O 2 '25; Same cond. Mech Eng 47:915-16 N '25; Discussion. Engineering 120:775-6 D 18 '25
Practical points in testing steam turbines. A. A. Brooks. il diag Power 61:984-6 Je 23 '25
Protection of steam turbine disk wheels from axial vibration; methods of design and testing. W. Campbell. il diags Gen Elec R 27:511-35 Ag '24
Standing torque of small turbines. J. Y. Dahlstrand. Power Pl Eng 29:184-5 F 1 '25
Steam turbine efficiencies. F. Samuelson. Engineering 118:704 N 21 '24
Test code for steam turbines. diag Mech Eng 47:759-68 S '25
Test of a multi-stage steam turbine. J: M. Drabelle. il Power Pl Eng 29:236-8 F 15 '25
Testing steam turbine and barometric condensers. F. S. Youtsey. diag Power 59:979-80 Je 17 '24
Tests at Winnipeg standby plant. Can Eng 49:164 Jl 28 '25
Tests of a 7,000-kw. steam turbine generator at the Bristol electricity works. diags Engineering 118:253-5 Ag 22 '24; Abstract. Power 61:235 F 10 '25
Tests on a Richardsons, Westgarth and co.'s steam turbine. Engineering 118:668-9 N 14 '24
Turbine designer's wind tunnel; turbine air test. L. Wirt. il Gen Elec R 27:780-92 D '24; Same cond. Mech Eng 47:13-17 Ja '25
Turbine performance from steam quality measurements. N. L. Johnson. diag Power 60: 691-2 O 28 '24; Discussion. 60:989-90; 61: 189 D 16 '24, F 3 '25
Turbo-alternator tests. J: Bruce. il diags Elec R (Lond) 94:4-6 Ja 4 '24

Transportation

Handling facilities for heavy equipment. diags Elec W 85:1402 Je 27 '25

Vibration

Protection of steam turbine disk wheels from axial vibration. W. Campbell. il Gen Elec R 27:352-60, 459-84, 511-35 Je-Ag '24; Abstract. Power 59:951; 60:94-9 Je 10, Jl 15 '24
Tests of vibration in turbine disks. il diags Power 61:193-5 F 3 '25
Über biegungsschwingungen von dampfturbinenlaufrädern. E. Oehler. il diags Zeit Ver Deutsch Ing 69:335-40 Mr 14 '25
Vibration of steam turbine discs. J. von Freudenreich. il Engineering 119:2-4, 31-4 Ja 2-9 '25
Les vibrations des roues de turbines à vapeur. C. Delanghe. il diags Génie Civil 87:8-12, 33-7 Jl 4-11 '25

STEAM turbines, Marine
Application of the steam turbine for auxiliary machinery. R: W. Allen. il Engineering 117: 477-9 Ap 11 '24; Same cond. Engineer 137: 455+ Ap 25 '24; Discussion. Engineering 117: 489 Ap 18 '24; Engineer 137:450 Ap 25 '24
Building turbines for America's largest steamer. il Power 62:678-9 N 3 '25
Dampf-luft-turbinen für hilfsmaschinenantrieb, insbesondere auf motorschiffen. H. Melan. diag Zeit Ver Deutsch Ing 68:28 Ja 12 '24
De Laval impulse turbine designed to operate under high pressure and superheat. il Marine Eng 29:430-1 Jl '24
Der erste deutsche turbinen-radschleppdampfer Dordrecht. il diags plans Zeit Ver Deutsch Ing 69:341-5 Mr 14 '25
Geared turbine machinery for the SS. Drottningholm. diags Engineering 118:834, 841-2, pl 82 D 19 '24; Abstract. Power 61:279 F 17 '25; Génie Civil 86:410-11 Ap 25 '25
Geared-turbine paddle tug for the Rhine. diags Engineering 119:361 Mr 20 '25; Discussion. 119:798 Je 26 '25
High-efficiency steam installations for ship propulsion, with special reference to the question of auxiliary machinery. S. S. Cook. Engineering 120:335-7 S 11 '25; Abstracts. Elec R (Lond) 97:431-2 S 11 '25; Engineer 140:270 S 11 '25; Discussion. Engineering 120:316, 383 S 11, 25 '25; Engineer 140:271 S 11 '25
History of geared turbines for ship propulsion. W. B. Flanders. Power 61:432 Mr 17 '25
Internal-combustion and steam engines for high-speed passenger vessels. J: Biles. diags Engineering 119:414-17, 462-4 Ap 3-10 '25; Same. Marine Eng 30:293-301 My '25; Same cond. Engineer 139:388-9 Ap 3 '25; Abstract. Mech Eng 47:506-7 Je '25; Discussion. Engineering 119:424-5 Ap 3 '25; Engineer 139:377, 379 Ap 3 '25
Modern tendencies in steam-turbine power plants. E. Berg and F. V. Smith. diags Mech Eng 46:577-82 O '24; Same abr. Marine Eng 29:305-9 My '24; Abstract. Power 60: 18-20 Jl 1 '24
Naval turbines. O. L. Cox and M. A. Libbey. 241p U. S. naval inst., Annapolis '24
Operating and maintaining marine impulse turbines. O. M. Gordon. Marine Eng 29:109-11 F '24
Operating and maintaining marine reaction turbines. O. M. Gordon. Marine Eng 29: 673-6 N '24
Orient liner Oronsay. diags Engineer 139:212-14 F 20 '25
Reversing clutch marine turbine. O. A. Wiberg. diags Engineering 118:144-5 Jl 25 '24
Les transmissions et les embrayages pour la commande des machines marines. diags Génie Civil 85:350-1 O 18 '24
Turbine drive for auxiliary machinery. R: W. Allen. Marine Eng 29:554-5+ S '24
Turbine-driven steamers Principessa Giovanna and Principessa Maria. il diags Engineering 117:821-2, 828, pl 83-4 Je 27 '24.
Twin screw geared-turbine Orient liner Orama. diags Engineering 118:601-4, pl 62-4 O 31 '24
Water rates of geared turbines. H. E. Brelsford. Marine Eng 29:171-4 Mr '24

See also Ship propulsion; Steamboats

Bearings

Pad system applied to large journal bearings. F. Johnstone-Taylor. diags Marine Eng 29: 476-8 Ag '24
Thrust blocks for SS. Empress of Australia. il diags plans Engineering 117:268-9, 272 F 29 '24

Gearing

Enveloping gear teeth. il Engineering 117:257-8 F 29 '24; Same. Am Mach 60:809-10 My 29 '24
Gearing for ships, turbines and motor ships. H. Frahm. Engineer 138:645-6 D 5 '24
Marine reduction gearing; an historical review. A. F. Ainslie. diags Electrician 95:122-3 Jl 31 '25
Problems solved in machining large gears. L: H. Kenney. il diags Iron Age 115:263-8 Ja 22 '25
Les transmissions à engrenages du navire à turbines Drottningholm. diags Génie Civil 86:410-11 Ap 25 '25
Trend of development of marine propelling machinery. G: G. Goodwin. Engineer 138: 548-9 N 14 '24
Worm gear; its production and efficiency and its application to turbine reduction gearing. F. W. Lanchester. il Engineering 117:131-2 F 1 '24

Repair

Emergency repairs to circulating turbine of S. S. Pan America. il diag Marine Eng 30: 517 S '25
Reconditioning the turbines of the S.S. Mauretania. il diags Engineer 137:410-12 Ap 18 '24

STEAM water heaters
Film concept of heat transmission applied to a commercial water heater. D. K. Dean. Ind & Eng Chem 16:479-83 My '24; Abstract. Mech Eng 46:350-1 Je '24
Storage calorifier for hot water supply. il diags Engineering 116:681 N 30 '23
Water heating and steam pipe chart. J: H. Gibson. Heat & Ven 22:54-6 Ag '25

STEAMBOAT lines
Australasian government-owned railways and steamships in 1923-1924. Econ W n s 29:810-11 Je 6 '25
Commerce broadens as trade routes to Latin America grow shorter. L. O. Welcome. il Dun's Int R 44:44-6 Ja '25
Completes 72 years of service. il map Marine R 54:313-18 Ag '24
Connecting link between France and America; Compagnie Générale transatlantique. il Bankers M 108:674-85 Ap '24
Consolidate old lake lines. il Marine R 54: 448-9 N '24
Dollar ship line girdles the globe. S. A. Oyen. il Am Ind 25:29-32 O '24
Fast steamers placed between Chicago-Detroit. il Marine R 55:324 S '25
Liner tonnage in oversea trades. E. T. Chamberlain. Am Ind 26:19-21 Ag '25
Peninsular and oriental steam navigation company. Economist 99:972-4 D 13 '24
Report re North Atlantic steamship combine. W: T: R. Preston. 28p F. A. Acland, Ottawa '25
Why we made money when nearly everybody said we'd fail; Pacific steamship co. H. F. Alexander. il Marine Eng 30:233-8 Ap '25; Same. System 47:449-55+ Ap '25

See also Cunard steamship company; Holland-American line; Hudson River day line

Advertising
Co-operative steamship campaign opens opportunity for more institutional advertising. Ptr Ink 127:77-8 Ap 3 '24
When half-way advertising obscures the main idea. Ptr Ink 130:49-50+ Mr 19 '25

Finance
Economics of transatlantic liners of various lengths. C. E. Petersen. Marine Eng 28: 759-63; Discussion. 753 D '23

STEAMBOATS
Anchor-Donaldson line places new intermediate type liner in Glasgow and Montreal passenger service. diags plans Marine Eng 29:149-54 Mr '24
Atlantic transport liner Minnetonka. il Engineer 137:480, 485-6 My 2 '24
Betriebserfahrungen mit ölfeuerungsanlagen an bord. P. Müller. il diags Zeit Ver Deutsch Ing 68:442-9 My 3 '24
Blue ribbon of the Atlantic; rapid growth in size and speed of turbine-driven ocean liners. Sci Am 130:104+ F '24
Builds lake liner; Greater Detroit. il Marine R 54:376-9 S '24; Marine Eng 29:527+ S '24
Coal-burning steamship equipped with Lentz poppet valve double compound engine shows remarkable economy. diag Marine Eng 30: 266 My '25
Construction of S.S. Malolo progressing rapidly. il Marine Eng 30:621-3 N '25
Conversion of river hospital steamers for Nile tourist service. il diags Engineering 118: 463-6 S 26 '24
Die einheitsschlepper des staatlichen schleppmonopols. Ebelt. diags Zeit Ver Deutsch Ing 69:361-6, pl 2 Mr 21 '25
Evolution of the steamship. E. C. Smith. Engineer 139:104 Ja 23 '25
First steamboat. P. A. Freeman. Power 59: 617 Ap 15 '24
Largest paddle steamers ever built; Great Lakes steamers Greater Detroit and Greater Buffalo. il diags plans Marine Eng 29:642-8 N '24
Launch of the Conte Biancamano. il Engineer 139:497 My 1 '25
Launch of the Orient liner Oronsay. il Engineer 138:209-10 Ag 22 '24
Mississippi car-transfer steamer for Gulf Coast lines. il diag Eng N 92:1064-5 Je 19 '24
Mohawk, third steamship for Clyde line is launched at Newport News. il Marine R 55: 425-6 N '25
New bay steamer District of Columbia delivered. il plans Marine Eng 30:201-3 Ap '25
New Clyde liner Cherokee in service. in Marine Eng 30:435-9 Ag '25
New Clyde liners. diags plans Marine Eng 30:232-9 Je '25
New Cunarder Carinthia. il Marine Eng 30: 551-2 O '25
New North German Lloyd steamship Berlin enters New York-Bremen service. il Marine Eng 30:613-14 N '25
New passenger liners placed in Atlantic service; Volendam and Veendam of the Holland-America line. il Marine Eng 29:332-3 Je '24
New Southern Pacific steamship El Oceano. il diags plans Marine Eng 30:260-3 My '25
New steamship Boston goes into service. il plans Marine Eng 29:399-407 Jl '24
New steamship George Washington goes into service. il diags plans Marine Eng 30:9-19 Ja '25
New type of excursion steamer; Bear Mountain. il diag plan Marine Eng 30:375-8 Jl '25
Le nouveau paquebot D'Artagnan de la Compagnie des messageries maritimes. O. Quéant. il diags plans Génie Civil 87:301-5 O 10 '25
Orama, new Orient liner. il (supp) diag Engineer 137:567 My 23 '24
Orama, new Orient liner proves economical. il Marine Eng 30:135-6 Mr '25
Orama, twin-screw geared turbine Orient liner. il plan Engineering 118:543-4, 601-4, pl 56-7, 62-4 O 17, 31 '24
Orient liner Oronsay. il diag Engineer 139: 185-8, 190, 212-14 F 13-20 '25
Panama liner, S. S. Ancon, is reconstructed. il Marine R 55:225 Je '25
Paper-carrying steamer Humber Arm. il plans Engineering 120:383-6 S 25 '25
Le paquebot transatlantique De Grasse. O. Quéant. il diag plan Génie Civil 86:125-30, pl 1 F 7 '25
Les paquebots Champollion et Mariette-Pacha de la Compagnie des messageries maritimes. il diags plans Génie Civil 86: 597-600, pl 7 Je 20 '25
Peninsular and Oriental liner Rawalpindi. il diags Engineering 120:467-9, 470, 503-9, 514, pl 28-31 O 16-23 '25
Problems in repairing the Leviathan. il Iron Age 113:1215-16 Ap 24 '24
Progress of S. S. Malolo. Marine R 55:261 Jl '25
Propelling machinery of German passenger steamship Columbus. E. Foerster. diags Marine Eng 29:228-9 Ap '24
Reconditioned steamship Republic goes into service. il Marine Eng 29:274-7 My '24
River steamers used in coast service. C. H. Handy. il diags plans Marine Eng 29:223-7 Ap '24
Shallow-draught river vessel for China. il Engineer 140:274-5 S 11 '25
Shallow draught steamer Wanhsien. Engineering 117:10, pl 1 Ja 4 '24
Shipyards launch new vessels. il Marine R 55: 186-8 My '25
Steamboat days. F. E. Dayton. 436p Stokes '25
S.S. Alexander Hamilton joins Hudson river fleet. il diags plans Marine Eng 29:459-65 Ag '24
Steamship Aurania placed in New York service. il Marine Eng 29:652-3 N '24
S.S. Bienville joins Southern Pacific fleet. il Marine Eng 30:92-5 F '25
Steamships of 1923. il (supp) Engineer 137: 18-20 Ja 4 '24
Steamships of 1924. il (supp) Engineer 139: 22-3 Ja 2 '25
Turbine-driven steamers Principessa Giovanna and Principessa Maria. il diags Engineering 117:821-2, 828, pl 83-4 Je 27 '24
Twin-screw passenger and freight steamer Columbus. E. Foerster. il diags plans Marine Eng 29:81-9 F '24

STEAMBOATS—*Continued*
What will be the future development of steam pressures and temperatures for marine work? S. M. Robinson. Marine Eng 29:451-3 Ag '24

See also Boilers, Marine; Freight ships; Marine engines; Ship propulsion; Shipbuilding; Shipping; Ships; Steam turbnes, Marine; Steamboat lines; Towboats; Warships; *also* names of steamboats, e.g. Ethyl (steamship); Leviathan (steamship)

Cost of operation

Diesel vs. turbine on Hog Island ships. A. H. Jansson. il plan Marine R 54:119-26 Ap '24

Lighting

See Ships—Lighting

Oil burning

See Boilers, Marine—Oil firing

Performance

Application of fuel conservation and engineering performance standards to shipping board vessels. C. J. Jefferson. Marine Eng 30:27-33 Ja '25; Discussion. 29:732-3 D '24
Fix fuel standard to save cost. J. E. Sheedy. diag Marine R 54:16-20 Ja '24
Four year log of a war built ship; American freighter Hog Island. il Marine R 53:445-8 D '23
Performance tests of steamship Charles M. Schwab. il diags plans Marine Eng 29:278-84 My '24
Recent performances of the Cunard liner Mauretania. diags Engineering 118:424 S 19 '24
Securing fuel economy at sea. H. C. Dinger. Marine Eng 29:213-15 Ap '24
Service trials of the S. S. El Oceano. Marine Eng 30:449-50 Ag '25
Sets record in freight service. il Marine R 54:384-6 O '24

STEAMERS. See Steamboats

STEARIC acid

See Hydroxystearic acid

STEARIN

Composition of stearin pitch. H. Duboritz. Soc Dyers & Col J 39:355-6 N '23

STEEL

Beitrag zur frage des damaszenerstahls. K. Harnecker. Stahl & Eisen 44:1409-11, pl 7-8 N 6 '24
Changes of volume of steels during heat treatment. L. Aitchison and G: R. Woodvine. Iron & Steel Inst J 110:275-88 no 2 '24; Same. Engineering 118:351-2 S 5 '24; Discussion. Iron & Steel Inst J 110:289-90 no 2 '24
Cobalt magnet steels. E. A. Watson. Engineering 118:274-6, 302-4 Ag 22-29 '24
Dirty steel. Iron Age 112:1330 N 15 '23
Dirty steel under the microscope. G: F. Comstock. il Iron Age 115:1185-8+ Ap 23 '25
Does steel melt from the inside? il Sci Am 130:247 Ap '24
Economics of iron and steel. H. J. Skelton. 2d ed., enl. 679p Stevens & sons, ltd.; H. J. Skelton & co., ltd., London '24
Effect of changes in total carbon and in the condition of carbides on the magnetic properties of steel. A. W. Smith. E: D. Campbell and W: L. Fink. diag Phys R 23:377-85 Mr '24
Effect of temperature on metals. Power Pl Eng 28:801-3 Ag 1 '24
Die eigenschaften der edelstähle. P. Goerens. diags Stahl & Eisen 44:1645-59, pl 10 D 18 '24
Eigenspannungen in walzstäben unter besonderer berücksichtigung der schienen. P. Bardenheuer. il Stahl & Eisen 45:1098-1101 Jl 9 '25
Forging temperature of steels. K. Honda. Iron & Steel Inst J 109:313-17, pl 15; Discussion. 318-22 no 1 '24
Hard-wear steel. il Eng & Contr (Equip R) 63:910-11 Ap 29 '25
High elastic limit mild steel and its general applications. G. W. Barr, F. G. Martin and A. T. Wall. Engineer 137:443-4 Ap 25 '24; Same. Engineering 117:510-11 Ap 18 '24; Discussion. Engineer 137:450 Ap 25 '24; Engineering 117:489 Ap 18 '24
Influence of strain and of heat on the hardness of iron and steel. A. Sauveur and D. C. Lee. Engineering 120:433 O 2 '25
Large uses of steel in small ways. il Iron Tr R 73:1427, 1555-6, 1678-9; 74:231+, 356, 477, 609, 741-2, 866-7, 990-1, 1117-18, 1236-7, 1367-8, 1496+, 1629; 75:34, 167+, 289, 428-9, 535-6, 740, 878, 1026-7, 1172, 1311-12, 1441-2, 1579-80, 1716; 76:157-8, 292-3, 388, 508, 627, 755, 884, 1007, 1123, 1259, 1385, 1524, 1634+; 77: 78+, 194, 314, 432, 625+, 690, 820, 972+, 1092 N 22, D 6, 20 '23, Ja 17, 31, F 14, 28, Mr 13, 27, Ap 10, 24, My 8, 22, Je 5, 19, Jl 3, 17, 31, Ag 14, 28, S 18, O 2, 16, 30, N 13, 27, D 11, 25 '24, Ja 8, 22, F 5, 19, Mr 5, 19, Ap 2, 16, 30, My 14, 28-Je 4, 25, Jl 9, 23, Ag 6, 20, S 10-17, O 1, 15, 29 '25
New work of the committees of A.S.T.M. discussed at the Philadelphia meeting. Iron Age 115:905-6 Mr 26 '25
Partly killed simple steels. H: D. Hibbard. Iron Age 114:565+, 631-3 S 4-11 '24
Pickling; or, the action of acid solutions on mild steel and the diffusion of hydrogen through the metal. C. A. Edwards. bibliog diags Iron & Steel Inst J 110:9-44, pl 1-3a no 2 '24; Same abr. Blast F & Steel Pl 13: 79-83, 195-7 F, My '25; Excerpts. Engineer 138:298 S 12 '24; Discussion. Iron & Steel Inst J 110:45-60 no 2 '24; Engineer 138:298-9 S 12 '24; Engineering 118:365-6 S 12 '24
Properties of steels. J. E. Howard. Iron Age 114:1713-14 D 25 '24
Sessions of American society for testing materials on steel and non-ferrous metals. Iron Age 114:55-6 Jl 3 '24
Some effects of the penetration of arsenic and sulphur into steel. W. N. Hindley. Iron & Steel Inst J 109:465-76, pl 29-30 no 1 '24
Some metallurgical considerations of gears; abstract. diags Mech Eng 47:584-5 Jl '25
Specifying material for screw machine products. S. Fisher. diags Am Mach 62:225-8 F 5 '25
Steel and the petroleum industry. F. B. Foley. il Am Pet Inst Bul 4:97-100 D 31 '23; Abstract. Iron Age 113:512-13 F 14 '24
Steel for banding cotton bales. G: F. Tegan. il Iron Age 116:139-40 Jl 16 '25
Steel the metal for sports. il Iron Age 115: 1829-31 Je 25 '25
Steels for special trackwork. J. H. Budd. Elec Ry J 63:703-4 My 3 '24
Story of steel. il Sci Am 130:5, 28, 108-9+, 162-3+, 234-5, 310-11, 396-7+; 131:98-9, 174-5, 252-3+, 324-5, 398-9; 132:246-7, 316-17, 388-9 Ja-D '24, Ap-Je '25
Strength properties of wrought iron, mild steel and nickel steel at high temperatures. H. Carrington. il Engineering 117:69-71 Ja 18 '24
Die technisch-wirtschaftliche bedeutung des edelstahls. O. Böhler. il diag Stahl & Eisen 44:1660-4 D 18 '24
Temper colours. R. C. Gale. Soc Chem Ind J 43:349-52 D 12 '24
Les transformations thermiques des aciers et les anomalies des alliages spéciaux. P. Chevenard. Génie Civil 87:85-8 Jl 25 '25
What is iron, what is steel? A. Sauveur. Chem & Met Eng 30:782-3 My 19 '24; Same. Génie Civil 87:136 Ag 8 '25; Same. Iron Age 116:604+ S 3 '25; Same. Sanitary & Heat Eng 104:224-5 O 2 '25; Discussion. E. E. Thum. Iron Age 116:762-3 S 17 '25

See also Annealing; Bessemer process; Bridges, Iron and steel; Cars, Steel; Case hardening; Chromium-nickel steel; Chromium steel; Concrete, Reinforced; Corrosion and anti-corrosives; Electrolytic corrosion; Foundry practice; Freight cars, Steel; Iron; Manganese steel; Molybdenum steel; Nickel-chromium steel; Nickel steel; Open hearth process; Rails; Rolling (metal work); Rolling mills; Semi-steel; Sheet steel; Silicon steel; Soaking pits; Springs (mechanism); Steel, Heat treatment of; Steel, Structural; Steel alloys; Steel castings; Steel construction; Steel ingots; Steel metallurgy; Steel works; Tempering; Tool steel; Tungsten steel; Vanadium steel

STEEL—*Continued*

Analysis

Ascarite; an absorbent used in the determination of carbon in steel by the direct combustion method. J. B. Stetser. Soc Chem Ind J (Chem & Ind) 43:637-8 Je 20 '24

Beitrag zur analytischen chemie wolframhaltiger stähle. F. Fettweis. Stahl & Eisen 45: 1109-10 Jl 9 '25

Die bestimmung des kohlenstoffgehaltes im stahl durch messung des elektrischen widerstandes. C. Holthaus. il Stahl & Eisen 44: 178-9 F 14 '24

Die bestimmung des kohlenstoffs in roheisen, stahl und ferrolegierungen durch verbrennen im sauerstoffstrom. H. J. van Royen. diag Stahl & Eisen 44:393-7 Ap 10 '24

Determination of arsenic in steel. A. E. Cameron. bibliog Ind & Eng Chem 17:965-6 S '25

Determination of chromium and vanadium in steel. L. Lindemann. Ind & Eng Chem 16: 1271-2 D '24

Diphenylamine as indicator in the reduction of vanadic acid; determination of vanadium in steels, ferro-alloys, and ores. N. H. Furman. Ind & Eng Chem 17:314-16 Mr '25

Dosage du manganèse au persulfate d'ammonium en présence d'acide fluorhydrique. J. Vernay. Chimie & Ind 11:1093-5 Je '24

Dosage du silicium dans les aciers à coupe rapide. J. Vernay. Chimie & Ind 11:886-8 My '24

Die gleichzeitige bestimmung des schwefels und kohlenstoffs in stahl, roheisen und ferrolegierungen durch verbrennung im sauerstoffstrom. C. Holthaus. diags Stahl & Eisen 44:1514-19 N 27 '24

Inclusions in steel. Iron Age 113:444 F 7 '24

Inclusions in steel. Mech Eng 46:334 Je '24

Magnesium perchlorate trihydrate; its use as drying agent for steel and organic combustion analysis. G. F. Smith, M. Brown, and J. F. Ross. Ind & Eng Chem 16:20-2 Ja '24

Neues massanalytisches verfahren zur schwefelbestimmung in eisen und stahl. H. Pinsl. Stahl & Eisen 44:72-4 Ja 17 '24

Phosphor prints; a new method of detecting phosphorus segregations in steel. R. H. Canfield. Chem & Met Eng 30:470 Mr 24 '24

Preparation of samples for chemical analysis. Blast F & Steel Pl 13:445 N '25

Rapid determination of molybdenum in steel. O. L. Maag and C. H. McCollam. Ind & Eng Chem 17:524 My '25

Sauerstoff im eisen. P. Oberhoffer. Stahl & Eisen 45:1379-84, pl 7 Ag 13 '25

Use of amalgamated zinc in the evolution method for the estimation of sulphur in iron and steel. T. Ashida. diag Chem Soc J 125: 665-8 Mr '24

Bibliography

Notes on the progress of the home and foreign iron and steel industries. Published in semi-annual numbers of the Journal of the Iron and steel institute

Review of iron and steel literature for 1923. E. H. McClelland. Blast F & Steel Pl 12:13-17 Ja '24

Review of iron and steel literature for 1924. E. H. McClelland. Blast F & Steel Pl 13:9-11 Ja '25

Black fracture

See Steel—Metallography

Blowholes

Influence of gases at high temperatures upon iron, with special reference to the formation of blowholes. A. G. Lobley and C. L. Betts. diag Iron & Steel Inst J 111:215-24, pl 28-30 no 1 '25; Same. Engineering 119:591-2 My 8 '25; Abstract. Engineer 139:540-1 My 15 '25; Discussion. Iron & Steel Inst J 111:225-30 no 1 '25; Engineering 119:598 My 15 '25

Case hardening

See Case hardening

Copper content

How the ravages of corrosion can be reduced. C. A. McAllister. Marine Eng 29:663-4 N '24

Rustproofing of materials. M. E. McDonnell. il Mech Eng 47:875-80 N '25; Same cond. Ry Age 79:849-52 N 7 '25; Same cond. Am Mach 63:953-4 D 10 '25; Same cond. Mach 32:272-3 D '25; Same cond. Ry Mech Eng 99:757-61 D '25; Abstract. Iron Tr R 77: 1275-6 N 19 '25

Corrosion

See Corrosion and anti-corrosives; Steel, Stainless

Decarburization

Beobachtungen über das entkohlen, über stickstoff- und silizium-aufnahme beim glühen von eisen und stahl bei 1100 bis 1300° im reinen stickstoffstrom. P. Oberhoffer and A. Heger. il Stahl & Eisen 43: 1474-6 N 29 '23

Iron-iron carbide equilibrium in dry hydrogen at 950° C. E. D. Campbell, W. L. Fink and J. F. Ross. Iron & Steel Inst J 108:173-8 no 2 '23

Randentkohlung im stahl. E. Houdremont and H. Kallen. il Stahl & Eisen 45:587-8 Ap 16 '25

Relative efficiency of dry and of moist hydrogen on the decarburisation of steel at 950° C., and the effect of hydrogen on the phosphorus content. E. D. Campbell, J. F. Ross and W. L. Fink. Iron & Steel Inst J 108:179-85; Discussion. 186-8 no 2 '23

Failure

Cracking of mild steel. Engineer 139:sup62-3 Ap 24 '25

Creep in metals under stress. Engineer 138: 671-2 D 12 '24

Ein neuer weg zur verminderung der dauerbruchgefahr. H. Kändler and E. H. Schulz. il diag Stahl & Eisen 45:1589-96 S 17 '25

Gas content

Beitrag zur kenntnis der beim giessen und beim erstarren des stahles entweichenden gase. P. Klinger. Stahl & Eisen 45:1640-2 S 24 '25

Melting

Peep into cupola when melting steel. J. Grennan. il Foundry 53:314-17+ Ap 15 '25

Metallography

Die aenderung der festigkeitseigenschaften überwiegend perlitischer stähle durch wärmebehandlung. H. Meyer and W. Wesseling. Stahl & Eisen 45:1169-73, pl 3 Jl 9 '25

Beitrag zur kenntnis des einflusses von kobalt und vanadin auf die eigenschaften von schnellarbeitsstahl. W. Oertel and F. Pölzguter. Stahl & Eisen 44:1165-9, pl 2 S 25 '24

Brittle range in low-alloy steels. M. A. Grossman. il Iron Age 114:149-51 Jl 17 '24

Coarse crystallisation in mild steel sheets. C. A. Edwards and L. B. Pfeil. il Iron & Steel Inst J 108:263-6, pl 19-22; Discussion. 267-71 no 2 '23

Crystal structure of hard steel. K. Heindlhofer. diag Phys R 24:426-38 O '24

Detection of strain in mild steels. T. H. Turner and J. D. Jevons. il Engineering 119:588-90 My 8 '25; Abstract. Engineer 139:540 My 15 '25; Discussion. Iron Age 115: 1492-3 My 21 '25

Der einfluss der ledeburitischen gefügebestandteile bei der erzeugung und behandlung von dreh- und schnittstählen. F. Rapatz. Stahl & Eisen 44:1133-8, pl 1 S 18 '24

Das eisen-kohlenstoff-diagramm und die wichtigsten gefügebestandteile der kohlenstoff-stähle. K. Daeves. diags Stahl & Eisen 45:427-34, pl 11-12 Mr 19 '25

STEEL—Metallography—*Continued*

Effect of grain upon the fatigue strength of steels. L. Aitchison and L. W: Johnson. Iron & Steel Inst J 111:351-76, pl 40-5 no 1 '25; Abstract. Engineering 119:585 My 8 '25; Discussion. Iron & Steel Inst J 111:377-8 no 1 '25

Einige versuche über den einfluss eines titanzusatzes zum rohguss auf den metallurgischen verlauf des temperprozesses. E. Piwowarsky. il Stahl & Eisen 44:745-8 Je 26 '24

Examination of defective ferrous materials in an engineering works. T. H: Turner. il Engineering 116:698-700 N 30 '23

Examination of steel by X-ray. L. C. Breed. Blast F & Steel Pl 12:517-18 N '24

Gefügeerscheinungen im angelassenen stahl. H. Hanemann. il Stahl & Eisen 43:880-2. pl 3-4 Jl 5 '23; Discussion. A. von Vegesack. Stahl & Eisen 43:1428 N 15 '23

Grain growth in iron and steel. H. C. Wang. Iron & Steel Inst J 108:285-96, pl 23-4 no 2 '23

Heat treating—its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. il Iron Tr R 74:1434-7, 1560-2 My 29, Je 12 '24

How English test big forgings. il Iron Tr R 74:1557-8 Je 12 '24

How grain structure indicates steel composition and physical qualities. B. T. McMinn. il Power 62:94-6 Jl 21 '25

Metallographic investigation of effect of sulfur on rivet steel. il Am Soc T M Pro 24 pt 1:108-80; Discussion. 181-4 '24

Metallurgical analysis of arc welding. A. G. Bissell. il Aera 13:1050-5; Discussion. 1055-6 Ja '25

Morphology of proeutectoid cementite. A. M. Portevin. Iron & Steel Inst J 108:93-9, pl 4-8; Discussion. 100-1 no 2 '23

Nachprüfung der löslichkeitslinie für kohlenstoff in chrom- und wolframstählen. P. Oberhoffer, K. Daeves and F. Rapatz. il Stahl & Eisen 44:432-5 Ap 17 '24; Discussion. 45:583-7, pl 22 Ap 16 '25

Nature of high-speed steel. M. A. Grossmann and E. C. Bain. diags Iron & Steel Inst J 110:249-72, pl 11-12 no 2 '24; Same. Engineering 118:347-8, 393-4 S 5-12 '24; Discussion. Iron & Steel Inst J 110:273-4 no 2 '24

Observations on martensite and troostite. J. H. Whiteley. diag Iron & Steel Inst J 111: 315-38, pl 34-9 no 1 '25; Abstract. Engineering 119:634-5 My 22 '25; Discussion. Iron & Steel Inst J 111:339-49 no 1 '25

Occurrence of grain growth in steel. A. A. Blue. il Iron Age 113:716-18, 1271-3 Mr 6, My 1 '24

Practical metallography. S. P. Rockwell. il Am Mach 61:487-92 S 25 '24

Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. bibliog diags Mech Eng 47:339-45, 479-84 My-Je '25

Recommend microscope as control instrument. J. F. Harper and H. J. Stein. il Foundry 53: 487-9+ Je 15 '25

Die rekristallisation von kohlenstoffstählen und legierten stählen. W. Schneider and E. Houdremont. Stahl & Eisen 44:1681-7 D 18 '24

Rekristallisationserscheinungen an dauerbeanspruchten stählen. W. Riede. il Stahl & Eisen 44:880-3 Jl 24 '24

Retained austenite. J: A. Mathews. il Engineering 120:368-70 S 18 '25; Discussion. E. A. Watson. 120:424-5 O 2 '25

Rolling refines grain structure. W. J. Crook. il Iron Tr R 75:1365-9 N 20 '24

Strain detection in mild steel by special etching. J. D. Jevons. Iron & Steel Inst J 111: 191-204, pl 22-7 no 1 '25; Same cond. Engineering 119:585-7, pl 37-8 My 8 '25; Abstract. Engineer 139:540 My 15 '25; Discussion. Iron & Steel Inst J 111:205-13 no 1 '25; Iron Age 115:1492-3 My 21 '25

Structure of quenched carbon steels. B. D. Enlund. Iron & Steel Inst J 111:305-14, pl 32-3 no 1 '25; Abstracts. Engineering 119: 634 My 22 '25; Elec R (Lond) 96:971 Je 19 '25; Discussion. Iron & Steel Inst J 111:339-49 no 1 '25; Engineering 119:634-5 My 22 '25

Structure of troostite and sorbite; method of etching which develops the actual and complex constituents of carbon steels at high magnifications. O. V. Greene. il Iron Age 114:615-17+ S 11 '24

Technic of X-ray is improving; experience at Watertown arsenal in application of X-ray process to steel castings. il Iron Tr R 75: 669-71 S 11 '24

Ueber das chemische verhalten von eisenkohlenstoff-legierungen im gereinigten stickstoffstrom bei 1100 bis 1300°. F. Schmitz. Stahl & Eisen 44:1145-6; Discussion. 1146-8 S 18 '24

Ueber den osmondit. E: Maurer. il Stahl & Eisen 44:622-4 My 29 '24

Ueber den perlit, troostit und sorbit. A. Schrader. il Stahl & Eisen 44:309-11 Mr 20 '24

Ueber fehlstellen im legierten stahl. A. Schleicher. Stahl & Eisen 43:1449-52 N 22 '23

Ueber schwarzbruch. F. Rapatz and H. Pollack. Stahl & Eisen 44:1509-14, pl 9 N 27 '24

Die verschiebung des perlitpunktes durch nickel und chrom. N. H. Aall. il Stahl & Eisen 44:256-9 Mr 6 '24; Discussion. 45: 544-6 Ap 9 '25

Wire drawing and properties of the steel. G: F. Comstock. il Iron Age 114:705-7 S 18 '24

X-ray studies on the crystal structure of steel. A. Westgren and G. Phragmén. diags Iron & Steel Inst J 109:159-72, pl 12-14; Discussion. 173-4 no 1 '24

Zur kenntnis der primärätzung. P. Oberhoffer. Stahl & Eisen 45:223-4, pl 7 F 12 '25

Nitrogen content

Nitrogen as a possible factor in temper-brittleness. W. T. Griffiths. Iron & Steel Inst J 111:257-60 no 1 '25; Same. Engineering 119: 619 My 15 '25; Discussion. Iron & Steel Inst J 111:261-4 no 1 '25; Engineering 119:633 My 22 '25

Nitrogen in steel—prevention or cure? J. K. Smith. Iron Age 114:1209-10 N 6 '24

Nitrogen process for surface hardening. A. Fry. Engineer 140:sup140-1 S 25 '25

Ueber das verhalten des stickstoffs beim Thomasverfahren. F. Wüst. Stahl & Eisen 43:1476-7 N 29 '23

Oxygen content

Oxygen and the red shortness of steel. H. Monden. il Iron Age 114:1338-40 N 20 '24

Sauerstoff im eisen. P. Oberhoffer. Stahl & Eisen 45:1379-84, pl 7 Ag 13 '25

Ueber den einfluss des sauerstoffs auf die physikalischen und technischen eigenschaften des flusseisens. A. Wimmer. Stahl & Eisen 45:73-9, pl 1 Ja 15 '25

Prices

Brief flays Pittsburgh base. Iron Tr R 74:1446 My 29 '24

Changes in freight rates are expected; abolition of Pittsburgh plus. L. W. Moffett. Iron Age 114:917-18 O 9 '24

Confusion in steel market result of new pricing system. Comm & Fin Chr 119:1473-4 S 27 '24

Delivered price system in doubt. Iron Tr R 75:1179 O 30 '24

Denies Pittsburgh plus is illegal; steel corporation brief to Federal trade commission. Iron Tr R 74:1547-8 Je 12 '24

Domestic iron and steel prices in 1923. Iron Tr R 74:88 Ja 3 '24

Domestic iron and steel prices in 1924. Iron Tr R 76:80 Ja 1 '25

Duluth objects to Pittsburgh basing. Iron Age 113:1727-8 Je 12 '24

Effect of Pittsburgh plus removal upon price. Eng N 94:542+ Mr 26 '25

European iron and steel export prices in 1924. Iron Tr R 76:106 Ja 1 '25

European iron and steel prices in 1923. Iron Tr R 74:112 Ja 3 '24

Federal commission on Pittsburgh plus. Iron Age 114:1541-2 D 11 '24

STEEL—Prices—*Continued*

Federal trade commission decides against United States steel corporation in Pittsburgh plus case. Comm & Fin Chr 119:389-92 Jl 26 '24; Same. Manuf Rec 86:69-73 Jl 31 '24; Same. Iron Age 114:205-9+ Jl 24 '24; Excerpts. Eng N 93:202-3 Jl 31 '24; Abstracts. Iron Tr R 75:201-2 Jl 24 '24; Am Ind 25: 34+ Ag '24

Finished steel market vs. pig iron. Iron Age 113:65-6 Ja 3 '24

Fluctuations in prices of pig iron and finished steel since 1904; chart. Iron Age 113:79-80 Ja 3 '24

Fluctuations in prices of pig iron and finished steel—thirteen years, 1912-1924; chart. Iron Age 115:69 Ja 1 '25

Foreign competition and freight rates discussed at hearing before Interstate commerce commission. L. W. Moffett. Iron Age 114:1067-8 O 23 '24

History of Pittsburgh plus given in detail. E. H. Gary. Iron Age 114:1121+ O 30 '24

Iron and steel prices. Published in weekly numbers of Iron trade review and Iron age

Iron and steel prices for twenty-one years, 1903-1923. Iron Age 113:81-8 Ja 3 '24

Iron and steel prices for twenty-one years, 1904-1924. Iron Age 115:71-8 Ja 1 '25

Is the Pittsburgh plus decision price fixing? D. B. Luten. Eng N 93:276 Ag 14 '24

Labor rates and steel prices for one-quarter century; chart. Iron Age 113:37 Ja 3 '24

Misinformation on Pittsburgh basing case. L. W. Moffett. Iron Age 114:309-10 Ag 7 '24; Same. Eng & Contr (Ry) 62:654-5 S 17 '24

Monthly fluctuations of iron and steel prices for a period of twenty-nine years; chart. Iron Tr R 74:70a Ja 3 '24

Monthly fluctuations of iron and steel prices for a period of thirty years; chart. Iron Tr R 76:96a Ja 1 '25

Passing of Pittsburgh plus. E. C. Kreutzberg. il Am Bankers Assn J 17:301-3 N '24

Pittsburgh base may be guide only. E. H. Gary. Iron Age 114:261-2 Jl 31 '24; Same. Comm & Fin Chr 119:529-30 Ag 2 '24

Pittsburgh basing is strongly denounced by Examiner Bennett. Iron Age 113:1345-8+, 1573+ My 8, 29 '24

Pittsburgh-plus practice. Index p 13-14 Ag '24

Pittsburgh plus ruling; comments. Comm & Fin Chr 119:530-2 Ag 2 '24

Prices of finished iron and steel f.o.b. Pittsburgh. Published in weekly numbers of Iron age

Prices of iron and steel and other products. S. G. Koon. charts Iron Age 113:1870-1 Je 26 '24

Prices of steel and other products. S. G. Koon. diags Iron Age 116:8-10 Jl 2 '25

Professors oppose Pittsburgh basing. L. W. Moffett. Iron Age 112:1653-4 D 20 '23

Results of abolishing Pittsburgh basing. Iron Age 115:54-7 Ja 1 '25

Ruling of the Federal trade commission against the Pittsburgh plus price basis in the steel industry. Econ W n s 28:190-1 Ag 9 '24; Same. Nat City Bank p 123-5 Ag '24

Steel corporation responds in basing case. Iron Age 113:1713-14 Je 12 '24

Trend of iron and steel markets. L. H. Haney. Iron Age 115:218-20, 1425-6, 1788+; 116:154+ Ja 15, My 14, Je 18, Jl 16 '25

26 years of fluctuations in prices of pig iron, and semi-finished and finished steel and of steel rails. Iron Age 113:99-100 Ja 3 '24

United States steel corporation abandons Pittsburgh plus. Iron Age 114:747-50+ S 25 '24

See also Steel, Reinforcing—Prices; Steel, Structural—Prices

Protection

Brittleness of zinc plated steel. H. Sutton. Brass W 21:159-60, 235-6 My, Jl '25

Chromium plating steel using chromium anodes. K. W. Schwartz. Am Electrochem Soc Trans v 44 (preprint 2):13-25 S '23; Same. Brass W 20:85-8 Mr '24; Same abr. Metal Ind 21:441-3 N '23; Excerpts. Chem & Met Eng 30:627-8 Ap 21 '24; Discussion. Metal Ind 22:65 F '24

Gunite protection for steel structures. P: Gillespie and P. J. Culliton. il Can Eng 47:451-4, 473-6 O 28-N 4 '24; Conclusions. Concrete 25:231 D '24

How to correct and prevent corrosion of steel. T. A. Smith. il diags Concrete 25:79-81 S '24; Excerpts. Eng N 93:879-80 N 27 '24

Plating of chromium on steel. G: M. Enos. Am Electrochem Soc Trans v 48 (preprint 1): 1-8 S '25; Same. Brass W 21:277-8 Ag '25; Same. Engineer 140:188 Ag 21 '25; Same cond. Iron Tr R 77:896-7 O 8 '25

Protective value of nickel plating. C. T. Thomas and W. Blum. Am Electrochem Soc Trans v 48 (preprint 8):75-92 S '25; Same. Brass W 21:344-9 O '25

Resistance to corrosion of electro-deposited chromium; abstracts. E. A. Ollard. Engineer 140:236-7 S 4 '25; Elec R (Lond) 97:393 S 4 '25; Chem Age (Lond) 13:245 S 5 '25; Engineering 120:408-9 O 2 '25

Rust resistance of nickel-plated steel. E. M. Baker. il diags plan Soc Auto Eng J 14:127-33 F '24; Discussion. 15:300-1 O '24

Rustproofing of materials. M. E. McDonnell. il Mech Eng 47:875-80 N '25; Same cond. Ry Age 79:849-52 N 7 '25; Same cond. Am Mach 63:953-4 D 10 '25; Same cond. Mach 32:272-3 D '25; Same cond. Ry Mech Eng 99:757-61 D '25; Abstract. Iron Tr R 77: 1275-6 N 19 '25

See also Gunite

Red-shortness

Oxygen and the red shortness of steel. H. Monden. il Iron Age 114:1338-40 N 20 '24

Specific heat

Einfluss des kohlenstoffs und innerer spannungen auf die spezifische wärme von kohlenstoffstählen. F. Wever. Stahl & Eisen 45:1643-4 S 24 '25

Specifications

Classification of carbon steel billets; abstracts. C: O. Hadly. Iron Age 115:1553-5 My 28 '25; Iron Tr R 76:1392+ My 28 '25

Engineers and the interpretation of chemical specifications for iron and steel in relation to analytical accuracy; abstracts. C. H. Ridsdale. Soc Chem Ind J (Chem & Ind) 43:276-7 Mr 14 '24; Chem Age (Lond) 10:265 Mr 15 '24; Engineer 137:312 Mr 21 '24; Engineering 117:432 Ap 4 '24

Iron and steel scrap specifications for use by blast furnaces, steel plants and foundries. Blast F & Steel Pl 13:115-19 Mr '25; Same abr. Iron Age 115:137 Ja 8 '25

Iron and steel specifications. U S Bur Stand Circ 101:77-101 '24

Mill scrap specifications submitted. Iron Age 115:1626-7 Je 4 '25

New steel specifications presented at American society for testing materials 28th annual meeting. Iron Age 116:26-7 Jl 2 '25

Report of committee A-1 on steel, with proposed revisions in standards. diag Am Soc T M Pro 24 pt 1:65-95 '24

Specifications for scrap and purchase contracts for scrap and conveying equipment considered at meeting of National association of purchasing agents. Iron Tr R 76:1498-9 Je 4 '25

See also Steel, Automobile—Specifications; Steel, Reinforcing—Specifications; Steel, Structural—Specifications; Steel castings—Specifications

Standards

Die deutschen werkstoffnormen für stahl und eisen. E. H. Schulz. Zeit Ver Deutsch Ing 69:1341-6 O 24 '25

Werkstoffnormen stahl und eisen. Stahl & Eisen 44:1519-22 N 27 '24

STEEL—*Continued*

Storage

Handling and storing of steel. C. C. Hermann. il Ind Management 70:222-4 O '25

New iron and steel jobbing warehouse of Horace T. Potts & co., Philadelphia. E. C. Kreutzberg. il Iron Tr R 73:1541-4+ D 6 '23

Warehousing steel on the Pacific coast. D. Partridge. il Iron Tr R 73:1599-1602 D 13 '23

Sulfur and phosphorus content

Die aufnahme des schwefels aus dem heizgas im Siemens-Martin-ofen. A. Jung. Stahl & Eisen 44:911-14 Jl 31 '24

Effect of sulphur in steel. Eng N 93:173 Jl 31 '24

Effect of sulfur on endurance properties of rivet steel. diags Am Soc T M Pro 24 pt 1: 96-107 '24

Effect of sulfur on structural steel. Am Soc T M Pro 24 pt 1:185-205 '24

Metallographic investigation of effect of sulfur on rivet steel. il Am Soc T M Pro 24 pt 1:108-80; Discussion. 181-4 '24

Method for reducing the percentage of phosphorus in Swedish iron by diminishing the phosphorus in the charcoal. H. von Eckermann. Iron & Steel Inst J 111:379-94 no 1 '25

Neues massanalytisches verfahren zur schwefelbestimmung in eisen und stahl. H. Pinsl. Stahl & Eisen 44:72-4 Ja 17 '24

Phosphor prints; a new method of detecting phosphorus segregations in steel. R. H. Canfield. Chem & Met Eng 30:470 Mr 24 '24

Temper-brittleness

Anlasssprödigkeit in stahl. G: Wazau. il diags Zeit Ver Deutsch Ing 68:1185-90 N 15 '24

Nitrogen as a possible factor in temper-brittleness. W. T. Griffiths. Iron & Steel Inst J 111:257-60 no 1 '25; Same Engineering 119: 619 My 15 '25; Discussion. Iron & Steel Inst J 111:261-4 no 1 '25; Engineering 119:633 My 22 '25

Temper-brittleness of steel. R. H. Greaves and J. A. Jones. Iron & Steel Inst J 111: 231-55 no 1 '25; Same (without tables). Engineering 119:623-4 My 15 '25; Discussion. Iron & Steel Inst J 111:261-4 no 1 '25; Engineering 119:633 My 22 '25

Zur frage der blausprödigkeit. E. Maurer and R. Mailänder. diags Stahl & Eisen 45:409-23 Mr 19 '25; Abstract (Blue brittleness). Engineer 139:sup91-3 Je 26 '25

Testing

Die abhängigkeit der abnutzung von dem gefügeaufbau. A. Stadeler. Stahl & Eisen 45: 1195-8, pl 6 Jl 9 '25

L'aimantation de l'acier produite par la traction. L. Fraichet. Génie Civil 84:495-8 My 24 '24

Applications pratiques des essais macrographiques de l'acier par les procédés d'impression. A. Portevin. Génie Civil 85:529 D 6 '24

Available data on the properties of irons and steels at various temperatures. H. J. French and W. A. Tucker. Am Soc T M Pro 24 pt 2:56-87 '24

Brittle range in low-alloy steels. M. A. Grossman. il Iron Age 114:149-51 Jl 17 '24

Calculation of quenching stresses in steel by using direct measurement. Engineering 118: 343-4 S 5 '24; Discussion. 118:285 Ag 29 '24; Correction. 118:641 N 7 '24

Case-hardening and fatigue resistance. J: Miller. il diag Iron Age 113:1269-71 My 1 '24

Characteristics of material for valves operating at high temperatures. J. B. Johnson and S. A. Christiansen. il Am Soc T M Pro 24 pt 2:383-400 '24

Comparative cold-rolling tests of open-hearth steel strip (deep-drawing stock) and electrolytic-iron strip. J: R. Freeman, jr. and R. D. France. il U S Bur Stand Tech Pa 288: 297-313 '25

Comparative tests of new billet steel and re-rolled steel reinforcing bars. J. B. Kommers. il diags tables Wis U Bul Eng S v 9 no 3:1-32 '24; Excerpts. Concrete 24:250 Je '24

Comparison of the deoxidation effects of titanium and silicon on the properties of rail steel. G: K. Burgess and G. W. Quick. U S Bur Stand Tech Pa 241:581-635 '23

Corrosion of non-rusting iron and steel alloys at different temperatures; abstracts. A. Brunner. Soc Chem Ind J (Abstracts) 44:452 Je 26 '25; Mech Eng 47:749 S '25

Defective material and processes. H. Brearley. il Blast F & Steel Pl 13:430-3, 470-3, 470-2+ N-D '25

Detection of flaws by X-rays. Chem Age (Lond) 11:sup39 N 1 '24

Detection of strain in mild steels. T. H: Turner and J. D. Jevons. Iron & Steel Inst J 111:169-89 [bibliog. p. 187-9], pl 18-21 no 1 '25; Same cond. Engineering 119:588-90 My 8 '25; Abstract. Engineer 139:540 My 15 '25; Discussion. Iron Age 115:1492-3 My 21 '25

Détermination industrielle de la limite élastique des aciers. J. Durand. il Génie Civil 84:205-8 Mr 1 '24

Différenciation des aciers par l'examen des étincelles de meulage dans l'air et dans l'oxygène. Génie Civil 84:284-5 Mr 22 '24

Dynamische prüfung des stahles bei höheren temperaturen. F. Körber and J. B. Simonsen. Stahl & Eisen 43:1543-5 D 13 '23

Effect of changes in total carbon and in the condition of carbides on the specific resistance and on some magnetic properties of steel. E. D. Campbell and G. W. Whitney. il Iron & Steel Inst J 110:291-311 no 2 '24

Effect of grain upon the fatigue strength of steels. L. Aitchison and L. W: Johnson. Iron & Steel Inst J 111:351-76, pl 40-5 no 1 '25; Abstract. Engineering 119:585 My 8 '25; Discussion. Iron & Steel Inst J 111:377-8 no 1 '25

Effect of high temperature on the range of repetition stresses on steel. F. C. Lea and H. P. Budgen. Engineering 118:500, 532-4 O 3-10 '24

Effect of hot-rolling conditions on the physical properties of a carbon steel. J: R. Freeman, jr., and A. T. Derry. il diags U S Bur Stand Tech Pa 267:547-66 '24

Effect of low and high temperatures on materials. F. C. Lea. diags Engineering 118: 816-17, 843-5 D 12-19 '24; Abstracts. Engineer 138:661-2 D 12 '24; Can Eng 49:210 Ag 11 '25; Mech Eng 47:664-6 Ag '25; Discussion. Engineering 118:794-5; 119:10-11 D 12 '24, Ja 2 '25

Effect of punching strains on the magnetic properties of electrical sheet steel. G. H. Cole. il Elec J 21:55-61 F '24

Effect of sulphur and alternating stress on steel. Eng N 93:172-3 Jl 31 '24

Effect of sulfur on endurance properties of rivet steel. diags Am Soc T M Pro 24 pt 1: 96-107 '24

Einfluss der temperatur auf die festigkeitseigenschaften von stahlguss. F: Körber. Stahl & Eisen 44:1765-71, pl 17 D 25 '24

Elastic limit in tension, and its influence on the breakdown by fatigue. J. M. Lessells. il diags Engineering 118:813-14 D 12 '24; Abstract. Engineer 138:662-3 D 12 '24; Discussion. Engineering 118:794-5; 119:10-11 D 12 '24, Ja 2 '25

Electrochemical method for estimating the corrosion of iron and steel. H. Beeny. il diag Am Electrochem Soc Trans v 48 (preprint 14):135-49 S '25

Elektrische stahlprüfungs-verfahren von B. D. Enlund. B. Kjerrman. il diags Zeit Ver Deutsch Ing 68:629-31 Je 14 '24

Elements of magnetic analysis. E. H. Crapper. diags Engineering 117:452-4, 601-2, 660-2, 786-8, 816-17 Ap 11, My 9, 23, Je 20-27 '24

Endurance properties of corrosion—resistant steels. D. J. McAdam, jr. Am Soc T M Pro 24 pt 2:273-303 [bibliog. p. 303] '24

Endurance properties of steel: their relation to other physical properties and to chemical composition. D. J. McAdam, jr. il diags Am Soc T M Pro 23 pt 2:56-105; Discussion. 122-9 '23

STEEL—Testing—*Continued*

Endurance range of steel. D. J. McAdam, jr. Am Soc T M Pro 24 pt 2:574-600 [bibliog. p. 599-600]; Discussion. 601-17 '24

Les essais de torsion des métaux; déformations élastiques et déformations permanentes. J. Seigle and F. Cretin. diags Génie Civil 84:545-9, 565-8 Je 7-14 '24

Exploring within the steel; how magnetic analysis indicates the presence of flaws in rails and beams and hoisting cables. A. G. Ingalls. il Sci Am 130:316-17+ My '24

Festigkeitseigenschaften von eisen und stahl in der kälte und wärme. W. Oertel. il diags Stahl & Eisen 43:1395-1404 [bibliog. p. 1403-4] N 8 '23

Festigkeitseigenschaften von stahlguss bei hohen temperaturen. A. Pomp. il Zeit Ver Deutsch Ing 69:765-6 My 30 '25

Field of magnetic testing broad. il Iron Tr R 75:663-5 S 11 '24

Finding mechanical properties of steel magnetically. L. Fraichet. Automotive Ind 49: 1150 D 6 '23

Flow in a low-carbon steel at various temperatures. H. J. French and W. A. Tucker. il diags U S Bur Stand Tech Pa 296:619-40 '25

Formungsvorgänge beim rundwalzen von stahl mit wechselndem kohlenstoffgehalt. O. Emicke and M. Rodenbach. il Stahl & Eisen 44:1679-81 D 18 '24

Fouling of steels. H: Williams. il Iron Age 113:876-7 Mr 20 '24

Die härtebiegeprobe als chargenkontrolle in der edelstahlerzeugung mit besonderer berücksichtigung der unlegierten werkzeugstähle. G. Klein and W. Aichholzer. il Stahl & Eisen 44:1734-9 D 18 '24

High-temperature static and fatigue tests of steel. T. M. Jasper. Eng N 95:309-11 Ag 20 '25

High tensile strengths with low-carbon steels. R. H. Smith. il diag Am Soc T M Pro 24 pt 2:618-25 '24; Abstract. Engineer 139:sup 72-3 My 29 '25

How to identify nickel and other steels at the bins. H. C. Knerr. Automotive Ind 49:1253-4 D 20 '23

Improvements in the Brinell test on hardened steel, including a new method of producing hard steel balls. A. Hultgren. diags Iron & Steel Inst J 110:183-212, pl 10; Discussion. 213-18 no 2 '24

Influence of nickel and chromium upon the solubility of steel (in relation to corrosion). W. H. Hatfield. diag Iron & Steel Inst J 108: 103-116, pl 9; Discussion. 117-23 no 2 '23

Inspecting and testing automobile axles. R. L. Rolf. il diags Blast F & Steel Pl 13:386-91+ O '25

Investigation of the fatigue in metals: series of 1923. H. F. Moore. and T. M. Jasper. il diags Ill U Eng Exp Sta Bul 142:1-86 '24; Abstract. Eng N 93:212 Ag 7 '24

Investigations on the Herbert pendulum hardness tester. C. Benedicks and V. Christiansen. diags Iron & Steel Inst J 110:219-38; Discussion. 239-48 no 2 '24

Limite élastique et résistance des aciers doux recuits dans le cas d'efforts combinés de traction et de torsion. J. Seigle and F. Cretin. Génie Civil 85:178 Ag 23 '24

Magnetic analysis. T. Spooner. il Elec J 22: 113-20 Mr '25

Magnetic testing of small specimens. T. F. Wall. Engineering 117:293-5 Mr 7 '24; Abstract. Automotive Ind 50:934-5 Ap 24 '24; Discussion. E. A. Watson. Engineering 117: 368 Mr 21 '24

Magnetische prüfmethoden, insbesondere von dauermagneten. J. Würschmidt. Stahl & Eisen 44:1727-34 D 18 '24

Ein neuer weg zur verminderung der dauerbruchgefahr. H. Kändler and E. H. Schulz. il diag Stahl & Eisen 45:1589-96 S 17 '25

Notched bar impact test. H. P. Philpot. Can Eng 48:437-8 Ap 28 '25

Nouveau procédé de macrographie des métaux par impression directe sur pellicule. J. Durand. il Génie Civil 85:131-3 Ag 9 '24

Occurrence of grain growth in steel. A. A. Blue. il Iron Age 113:716-18, 1271-3 Mr 6, My 1 '24

Oxygen and the red shortness of steel. H. Monden. il Iron Age 114:1338-40 N 20 '24

Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. bibliog Mech Eng 47:559-65 Jl '25

Progress of gage steel investigation. Am Mach 61:607-8 O 16 '24

Properties and testing of magnetic materials. T. Spooner. Elec J 22:554-8 N '25

Quelques observations relatives aux effets des torsions permanentes sur les aciers. Génie Civil 85:18-19 Jl 5 '24

Recent developments in corrosion-resisting steels. W. H. Hatfield. Engineering 119:319 Mr 13 '25

Recent developments in tensile testing. S. L. Smith. Mech Eng 47:201-2 Mr '25

Recent English endurance tests of steel and other metals. Eng N 93:709-10 O 30 '24

Research reveals properties of steels used for gages. Automotive Ind 50:759-60 Ap 3 '24

Scratches and the fatigue strength of steel. Engineer 140:sup150-1 O 30 '25

Selecting the steel for the job. H. F. Moore. Soc Auto Eng J 15:483-4 D '24

Significance of the notched-bar impact test. Engineering 116:815 D 28 '23

Some endurance tests of metals. H. W. Gillett and E. L. Mack. il diags Am Soc T M Pro 24 pt 2:476-546 [bibliog. p. 544-6]; Discussion. 601-17 '24

Some revelations by deep etching. J. F. Harper. il Blast F & Steel Pl 13:150-2 Ap '25

Steels at highest working temperatures. P. Eyermann. il diags Iron Age 114:1270-3 N 13 '24

Steels used in aero work. W. H. Hatfield. il diags Roy Aeronautical Soc J 29:469-511; Discussion. 511-34 O '25

Strain detection in mild steel by special etching. J. D. Jevons. Iron & Steel Inst J 111:191-204, pl 22-7 no 1 '25; Same cond. Engineering 119:585-7, pl 37-8 My 8 '25; Abstract. Engineer 139:540 My 15 '25; Discussion. Iron & Steel Inst J 111:205-13 no 1 '25; Iron Age 115:1492-3 My 21 '25

Strength and elastic limit of annealed mild steel under combined tension and torsion. J. Seigle and F. Cretin. Engineer 140:sup134-6 S 25 '25

Tensile properties of medium-carbon steel at temperatures between 20 and 500° C. R. B. Wilhelm. diags Am Soc T M Pro 24 pt 2: 142-53 '24

Testing of steel for hardness. H. M. German. Am Mach 59:769-72 N 22 '23

Tests on valve materials made under working conditions. J. B. Johnson and S. A. Christianson. Automotive Ind 51:110-12 Jl 10 '24

Tests steel plates of Leviathan. G. B. Waterhouse. il Iron Tr R 75:229-30 Jl 24 '24; Same. Marine R 54:319-20 Ag '24

Ueber den einfluss des sauerstoffs auf die physikalischen und technischen eigenschaften des flusseisens. A. Wimmer. Stahl & Eisen 45:73-9, pl 1 Ja 15 '25

Ueber die eigenschaften der edelstähle bei den technischen formgebungsbedingungen. E. Siebel. Stahl & Eisen 44:1675-8 D 18 '24

Ueber die prüfung der abnutzung von eisen und stahl bei rollender reibung ohne schmiermittel. H. Meyer and F. Nehl. il. Stahl & Eisen 44:457-64 Ap 24 '24

Ueber kerbwirkungen beim stauchversuch. G. Sachs. Stahl & Eisen 43:1587 D 27 '23

Untersuchungen über die längenänderungen an kohlenstoffstählen. L. E. Daweke. Stahl & Eisen 45:786-8, pl 28 My 21 '25

Untersuchungen über die längenänderungen an kohlenstoffstählen. E. Heymann. Stahl & Eisen 45:1639-40 S 24 '25

L'usure des métaux; machine d'essais d'usure Amsler. P. Breuil. il Génie Civil 87:150-2 Ag 15 '25

Vanadium steel shows strength. H. H. Perry. il Iron Tr R 75:1228+ N 6 '24

Variation of Young's modulus with temperature from vibration measurements. A. L. Kimball, jr. and D. E. Lovell. diag Phys R 26:121-4 Jl '25

STEEL—Testing—*Continued*
Vergleichende untersuchungen über das verhalten von edelstahl beim schmieden unter dem hammer und unter der presse. F. Pacher and F. Schmitz. il Stahl & Eisen 44: 1668-74 D 18 '24
Vergleichende untersuchungen von basischem und saurem stahl mit hilfe der grosszahlforschung. F. Schmitz. Stahl & Eisen 43: 1536-9 D 13 '23
Was haben wir an der kerbschlagprobe? P. Ludwik. Stahl & Eisen 43:1427-8 N 15 '23
Why caustic solutions make steel brittle. R. S. Williams and V. O. Homerberg. il diag Chem & Met Eng 30:589-91 Ap 14 '24; Same. Power 59:608-10 Ap 15 '24
Wissenschaftliche prüfung und erforschung der edelstähle. F. Sommer and F. Rapatz. Stahl & Eisen 44:1739-43 D 18 '24

See also Boiler plates—Testing; Brinell hardness test; Dilatometer; Steel, Automobile—Testing; Steel, Structural—Testing; Tool steel—Testing; Tubes, Steel—Testing; Wire, Steel—Testing

Transportation

Favors reduction of rates on steel. Iron Age 113:1505-6 My 22 '24
Iron and steel rates. Iron Age 115:1058 Ap 9 '25
Pittsburgh to compete in West. Iron Tr R 76: 1067+ Ap 23 '25
Possible change in rate structure. Iron Age 115:1453 My 14 '25
Steel corporation's new freight service. il Iron Age 113:289-90 Ja 24 '24

STEEL, Automobile
Automobile sheet steel standards are needed greatly. H. M. Williams. Automotive Ind 49:1148-50 D 6 '23; Same. Iron Tr R 74: 296-7 Ja 24 '24; Same abr. Soc Auto Eng J 14:340-1 Mr '24
Improvements in automotive steels. W. G. Hildorf. il Iron Age 116:1378-80, 1447-50 N 19-26 '25; Abstracts. Am Mach 63:604c-d O 8 '25; Iron Tr R 77:935-6 O 8 '25
Maintaining quality to the standard of a slogan. J: Younger. il Am Mach 63:341-4 Ag 27 '25
Metallurgy pertaining to service problems; abstracts. L. A. Danse. Automotive Ind 52: 744-5 Ap 23 '25; Soc Auto Eng J 16:482-3 My '25
Nichrome alloy successfully used to strengthen castings. il Automotive Ind 53: 295-6 Ag 20 '25
Some alloy steels for automobile construction. C. H. S. Tupholme. Engineer 140:sup98-101 Jl 31 '25
Stainless, non-corrosive alloy steels meet exacting chassis and body requirements. Automotive Ind 51:937-8 N 27 '24
Stainless steel for automobiles. Automobile Eng 14:201-2 Jl '24

Specifications

British standard schedule of wrought steels for automobiles. 34p Pub. for British eng. standards assn. by C. Lockwood & son, London '24

Testing

Automobile design and automotive steels. T: H. Wickenden. diags Soc Auto Eng J 16: 538-45 My '25

STEEL, Calorized. See Calorizing

STEEL, Cold working of
Cold-drawing a steel bottle. A. Ferber. il Am Mach 60:220-1 F 7 '24
Cold steel finishing plant has important part in New England market: Frasse steel works purchased by Union drawn steel co. il Iron Tr R 76:286 Ja 22 '25
Cold-working steel bars and strips. S. A. Hand. il Am Mach 61:637-9 O 23 '24
Effect of low-temperature annealing on some mechanical properties of cold-drawn steels. S. H. Rees. Iron & Steel Inst J 108:273-83 no 2 '23
Das kaltwalzen von edelstahl. A. Pomp. Stahl & Eisen 44:1694-6, pl 11 D 18 '24
Operates new cold drawing plant; Anchor drawn steel co., Latrobe, Pa. J: D. Knox. il Iron Tr R 75:423-7 Ag 14 '24
Spring steel from cold-roll strip mills. il plan Iron Age 115:399-402 F 5 '25
Story of cold drawn steel. Blast F & Steel Pl 13:407+ O '25
Temper secured by cold rolling. M. Farmer. Iron Tr R 75:103-4+ Jl 10 '24
Wire drawing and properties of the steel. G: F. Comstock. Iron Age 114:621-4, 705-7 S 11-18 '24
Wire-drawing and the cold working of steel. A. T: Adam. 212p H. F. & G. Witherby, London '25

STEEL, Crushed
Large uses of steel in small ways. il Iron Tr R 74:1367-8 My 22 '24
Make abrasives from crushed iron and steel. Foundry 53:162 F 15 '25

STEEL, Effect of sea water on
Stainless steels; their heat treatment and resistance to sea-water corrosion. J. Strauss and J. W. Talley. il diags Am Soc T M Pro 24 pt 2:217-58 '24

STEEL, Hardening of
Air-hardening steels. J. K. Wood. Am Mach 62:265-8 F 12 '25
Avoids softness in carburizing. il Iron Tr R 77:308-10 Ag 6 '25
Carbon and high speed steel. J. H. Hill. Ry Mech Eng 99:576-7 S '25
Crystal structure of hard steel. K. Heindlhofer. diag Phys R 24:426-38 O '24
Experiments in the quench-hardening of steel rails; abstract. C. J. Allen. Mech Eng 47: 855 O '25
Fuel of the future—what shall it be? I. Ginsberg. il Am Gas J 122:135-6+ F 14 '25
Gases evolved during carburization. V: E. Hillman. diag Iron Age 114:611-14 S 11 '24
Hardening a die that is subject to shrinkage. C. Wheeler. diag Mach 31:978 Ag '25
Hardening and carburising plant at a petrol motor works. il Engineer 139:387 Ap 3 '25
Hardening dies in an acid bath. G. R. Caster. Mach 30:616 Ap '24
Hardening high-speed steel in barium chloride bath. A. L. Valentine. Mach 32:10 S '25
Hardening of carbon tool steel. S. N. Brayshaw. Engineering 119:382 Mr 27 '25
Hardening of silico-manganese steels. E. W. Colbeck and D. Hanson. bibliog Iron & Steel Inst J 109:377-94, pl 18-22; Discussion. 395-407 no 1 '24
Hardening of steel. Chem Age (Lond) 11: sup28 O 4 '24
Hardening of steel. W. Rosenhain. bibliog diags Iron & Steel Inst J 110:145-61, pl 9-a no 2 '24; Same. Engineering 118:391-3 S 12 '24; Discussion. Iron & Steel Inst J 110:162-81 no 2 '24
Hardening rail surface in the track. il Elec Ry J 63:922 Je 14 '24
Hardening small tools. Cassier's Ind Management 12:208 Mr '25
Die härteprüfung von gehärteten stählen. R. Mailänder. Stahl & Eisen 45:1769-73 O 22 '25; Abstract. Engineer 140:sup188-9 D 25 '25
Heat treating—its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. il chart diag Iron Tr R 74:917-20, 1161-4, 1309-12 Ap 3, My 1, 15 '24
L'influence de la trempe sur les propriétés mécaniques des aciers après revenu. L. Guillet and A. Portevin. Génie Civil 86: 191-2 F 21 '25
Magnetic and physical hardness. J. A. Mathews. Iron Age 115:689-90 Mr 5 '25
Mechanically equipped hardening room. C. T. Willard. il Am Mach 63:375-9 S 3 '25
Research reveals properties of steels used for gages. Automotive Ind 50:759-60 Ap 3 '24
Retained austenite. J: A. Mathews. il Engineering 120:368-70 S 18 '25; Discussion. E. A. Watson. 120:424-5 O 2 '25
Rockwell dilatometer for determining correct hardening temperatures of steel. S. P. Rockwell. il diags Mach 32:147-9 O '25

STEEL, Hardening of—*Continued*
Salt baths prevent soft spots. W. J. Merten. Iron Tr R 76:1120-2 Ap 30 '25
Some elementary facts about hardening. C: Doescher. Am Mach 62:5-6 Ja 1 '25
Steel hardening tests. Chem Age (Lond) 12: sup35 My 2 '25
Temperature control system for dressing and tempering fishtail bits. C: H. Shapiro. diag plan U S Bur Mines Rep of Invest 2712:1-18 O '25 (typew)
Ueber das härten von stahl. F. Rapatz and H. Pollack. Stahl & Eisen 44:1698-1703, pl 13 D 18 '24
Ueber den einfluss der allgemein als schädlich angesehenen beimengungen auf die härtung des werkzeugstahls. E. Maurer and W. Haufe. Stahl & Eisen 44:1720-6, pl 15-16 D 18 '24

See also Case hardening; Steel, Heat treatment of

STEEL, Heat treatment of
Die aenderung der festigkeitseigenschaften überwiegend perlitischer stähle durch wärmebehandlung. H. Meyer and W. Wesseling. Stahl & Eisen 45:1169-73, pl 3 Jl 9 '25
A.S.S.T. recommended practice for the heat-treatment of plain carbon and alloy spring steel. Am Mach 63:145 Jl 23 '25; Same. Mach 32:31 S '25
A.S.S.T. recommended practice for the heat-treatment of taps and milling cutters. Am Mach 63:194 Jl 30 '25; Mach 31:996-7 Ag '25
Available data on the properties of irons and steels at various temperatures. H. J. French and W. A. Tucker. Power 60:707 O 28 '24
Die bedingungen der regelmässigen wärmebehandlung des schnelldrehstahls. G. Dichmann. Stahl & Eisen 45:1569-70 S 10 '25
Beobachtungen über das entkohlen, über stickstoff- und silizium-aufnahme beim glühen von eisen und stahl bei 1100 bis 1300° im reinen stickstoffstrom. P. Oberhoffer and A. Heger. il Stahl & Eisen 43: 1474-6 N 29 '23
Change points in some nickel-chromium steels. W. T. Griffiths. bibliog diags Iron & Steel Inst J 108:133-66, pl 10-13a; Discussion. 167-71 no 2 '23
Changes of volume of steels during heat treatment. L. Aitchison and G: R. Woodvine. Iron & Steel Inst J 110:275-88 no 2 '24; Same. Engineering 118:351-2 S 5 '24; Discussion. Iron & Steel Inst J 110:289-90 no 2 '24
Drastic quenching imparts surprising properties to bolts and rivets. E. L. Shaner. il diags Iron Tr R 76:871-4 Ap 2 '25
Effect of high temperature on the range of repetition stresses on steel. F. C. Lea and H. P. Budgen. Engineering 118:500, 532-4 O 3-10 '24
Eigenschaftsänderungen durch wärmebehandlung unterhalb der umwandlungspunkte. G: Welter. Stahl & Eisen 43:1347-9 O 25 '23
Finishing melting temperatures of simple steel ingots. H: D. Hibbard. Iron Tr R 76: 599-600 F 26 '25
Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 121:1261-2+; 122:135-6+, 265-6+ D 13 '24, F 14, Mr 28 '25
Hardening and carburising plant at a petrol motor works. il Engineer 139:387 Ap 3 '25
Heat-treating equipment used for Mack truck and bus units; illustrations. Am Mach 63: 394-5 S 3 '25
Heat treating, its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. 93p Penton pub. co. '24
Heat treating—its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. il Iron Tr R 73:943-6+, 1099-1102, 1240-4, 1369-72, 1483-6+, 1603-7, 1728-31; 74: 168-72+, 293-5+, 411-13, 551-4, 671-3, 799-803, 917-20, 1049-51, 1161-4, 1309-12, 1434-7, 1560-2, 1687-9; 75:105-7, 223-5, 355-8, 487-9, 595-8, 673-5, 807-9, 939-41, 1087-9 O 4, 18, N 1, 15, 29, D 13, 27 '23, Ja 10, 24, F 7, 21, Mr 6, 20, Ap 3, 17, My 1, 15, 29, Je 12, 26, Jl 10, 24, Ag 7, 21, S 4-11, 25, O 9, 23 '24
Heat treating key to success. E. L. Shaner. il Iron Tr R 77:680-3 S 17 '25
Heat treating machine parts. E. F. Ross. il Iron Tr R 76:341-3 Ja 29 '25
Heat treating problems studied at meeting of American society for steel treating. Iron Tr R 74:430-1 F 7 '24; Iron Age 113:432-4 F 7 '24
Heat treatment for plain carbon tool steel is standardized by A.S.S.T. Automotive Ind 53:180-1 Jl 30 '25; Same. Iron Age 116:411-12 Ag 13 '25
Heat treatment laboratory; the Royal technical college, Glasgow. il Engineering 119: 818 Je 26 '25
Heat treatment of automobile parts. J. M. Watson. il Automotive Ind 51:602-4 O 2 '24
Heat treatment of ball and roller bearings. J. K. Wood. diag Am Mach 61:929-31 D 11 '24
Heat-treatment of carbon and high-speed steel. Mach 31:906-7 Jl '25
Heat treatment of carbon and high-speed steel tools. J. K. Wood. Am Mach 61:791-3 N 20 '24
Heat treatment of carbon steel castings; recommended practice. Am Mach 59:887 D 13 '23
Heat-treatment of gauge steel. F. A. Livermore. diags Automobile Eng 15:142-3 My '25
Heat-treatment of non-corrosive steels. J. K. Wood. Am Mach 62:567-70 Ap 9 '25
Heat treatment of spring steel. J. E. Burns, jr. diag Ry Mech Eng 99:111-14 F '25
Heat treatment of steel and iron. F. Sillix. Ry Mech Eng 99:649-50 O '25
Heat treatment of steel and its quality. P. E. McKinney. il Iron Age 114:78-9 Jl 10 '24
Heat treatment of steel cams. J. K. Wood. Am Mach 62:47-9 Ja 8 '25
Heat treatment of steel dies. C. S. Smith. Iron Age 116:608-10 S 3 '25
Heat-treatment of steel gears. J. K. Wood. Am Mach 61:567-70 O 9 '24
Heat treatment of steel springs. J. W. Rockefeller, jr. il Mach 31:4-5 S '24
Heat treatment of steel springs. J. K. Wood. Am Mach 61:443-6 S 18 '24
Heat treatment of tool steel. S. W. Brayshaw. diag Engineer 139:sup73-4 My 29 '25
Heating steel by the salt bath method. il diags Iron Tr R 77:1148-9+ N 5 '25
Houghton's liquid baths for the best treatment of steel. 158p E. F. Houghton & co., Philadelphia '25
Initial temperature and mass effects in quenching. H. J. French and O. Z. Klopsch. U S Bur Stand Tech Pa 295:589-618 '25
Die lineare umwandlungsgeschwindigkeit der perlitbildung. G. Tammann and G. Siebel. Stahl & Eisen 45:1202-5 Jl 9 '25
Making steel castings stronger. C: McKnight, jr. il Iron Age 115:555-7 F 19 '25
Manufacture and heat treatment of large forgings; abstracts. A. O. Schaefer. Mech Eng 47:673-4 Ag '25; Am Mach 63:182 Jl 30 '25
Materials in aircraft construction. L. Aitchison. Roy Aeronautical Soc J 28:234-48 Ap '24; Same abr. Engineering 117:89-91 Ja 18 '24; Discussion. Roy Aeronautical Soc J 28:248-59 Ap '24
New heat treatment bath permits handling of parts in finished form. il diags plan Automotive Ind 49:1147 D 6 '23
Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. il bibliog Mech Eng 47:339-45, 479-84, 559-65, 637-42 My-Ag '25
Problems in heat treating steel discussed at American society for steel treating spring meeting, Schenectady. Iron Age 115:1634-6 Je 4 '25
Properties and uses of alloy steels. R. H. Aborn. Iron Age 115:685-7 Mr 5 '25
Punchings require careful annealing. il Iron Age 115:1775 Je 18 '25
Putting heat in the bank; thermal critical points, and their relation to the heat treatment of steel. A. L. Collins. Sci Am 131: 318+ N '24
Refining metals electrically. L. J. Barton. Foundry 53:272-4 Ap 1 '25

STEEL, Heat treatment of—*Continued*
Report on heat treatment of steel. H: Otto. il Ry Mech Eng 98:622-3 O '24
Salt baths for steel treating. S. Tour. diag Am Mach 61:525-9 O 2 '24
Sorbitic treatment for steel rails. Sci Am 129: 434 D '23
Sorbitic treatment of rails. C. J. Allen. il diag Ry R 74:1245-8 Je 28 '24
Stainless steels; their heat treatment and resistance to sea-water corrosion. J. Strauss and J. W. Talley. il diags Am Soc T M Pro 24 pt 2:217-58 '24
Steels at highest working temperatures. P. Eyermann. il diags Iron Age 114:1270-3 N 13 '24
Steels used in aero work. W. H. Hatfield. il diags Roy Aeronautical Soc J 29:469-511; Discussion. 511-34 O '25
Tentative recommended practice for carburizing and heat treatment of carburized objects. Iron Tr R 77:5-7 Jl 2 '25
Traitement thermique des rails par le procédé de la Compagnie des forges de Châtillon, Commentry et Neuves-Maisons. A. Bidault des Chaumes. il diags Génie Civil 86:140-3 F 7 '25
Ueber das chemische verhalten von eisen-kohlenstoff-legierungen im gereinigten stickstoffstrom bei 1100 bis 1300°. F. Schmitz. Stahl & Eisen 44:1145-6; Discussion. 1146-8 S 18 '24
Ueber die härtbarkeit weicher stähle. Sauvageot and Delmas. Stahl & Eisen 44:1178-9 S 25 '24
Ueber schwarzbruch. F. Rapatz and H. Pollack. Stahl & Eisen 44:1509-14, pl 9 N 27 '24
Where should heat-treating be done? J: Younger. il Am Mach 63:389-91 S 3 '25
Zur kinetik der anlassvorgänge im stahl. H. Jungbluth. Stahl & Eisen 45:19-21 Ja 1 '25

See also Annealing

Exhibitions

American society for steel treating 7th annual convention. Iron Tr R 77:539-49+, 716-19+ S 3, 17 '25; Iron Age 116:605, 659-65 S 3 '25
Exhibition of shop and laboratory equipment at the American society of steel treating annual convention. Iron Tr R 75:678-85 S 11 '24
Steel show scope grows wider. il Iron Tr R 75:892-3+, 951-3 O 2-9 '24

History

Story of steel treating. P. Winchell. il Iron Age 116:593-604 S 3 '25

Terminology

Definition of heat treatment terms. Brass W 21:234 Jl '25
Heat treatment definitions. Soc Auto Eng J 14:384, 491-2 Ap-My '24; Chem & Met Eng 30:507 Mr 31 '24; Iron Tr R 75:218 Jl 24 '24; Mech Eng 46:228, 435 Ap, Jl '24; Mach 30: 757 Je '24
Lonealing—a new term in heat treating. Am Mach 60:420 Mr 20 '24; Same. Iron Tr R 74: 916 Ap 3 '24; Same. Iron Age 113:811 Mr 13 '24; Same. Mach 30:612 Ap '24; Same abr. Automotive Ind 50:623 Mr 13 '24; Same abr. Ry R 74:579 Mr 22 '24

STEEL, Pressed
Adaptation of formed steel to motor control apparatus. C: H. Hodgkins. il Elec J 21:30-3 Ja '24
Applications of pressed steel increase. W. W. Galbreath. Iron Tr R 74:33-5 Ja 3 '24
Blanking tools for pressed steel. W. E. Irish. diags Mach 31:451-3 F '25
Development of modern stamping practice. W. W. Galbreath and J: R. Winter. il Am Mach 59:883-7 D 13 '23; Same cond. Mech Eng 46: 17-19 Ja '24; Excerpt. Automotive Ind 50: 350-1 F 14 '24
Hot-pressing steel parts. E. W. Zeh. il Mach 30:434-5 F '24
Many new uses for pressed steel. il Sheet Metal Worker 15:416-17 Je 20 '24
New gear shifter assembly constructed of pressed steel parts. il diags Automotive Ind 51:333 Ag 14 '24
New steel pallets worth attention. il Concrete 27:44 N '25
Substitute materials that improve the product. B. M. Maynard and W. S. Powers. il Factory 32:157-8 F '24

STEEL, Reinforcing
Bending hard steel bars. E. E. Hughes. Iron Age 115:756 Mr 12 '25; Same. Eng & Contr (Bldgs) 63:1371 Je 24 '25
Bending heavy steel reinforcing into semi-circular form. il Eng N 95:276-7 Ag 13 '25
Better highways use more steel in 1925 programs. R. T. Mason. il Iron Tr R 76:749-52 Mr 19 '25
Comparative tests of new billet steel and re-rolled steel reinforcing bars. J. B. Kommers. il diags tables Wis U Bul Eng S v 9 no 3: 1-32 '24; Excerpts. Concrete 24:250 Je '24; Abstract. Eng N 93:146-7 Jl 24 '24; Discussion. 93:393, 475 S 4, 18 '24
Demands increasing for reinforcing steel. L. N. Duryea. il Iron Age 113:1847-9 Je 26 '24
Nature of rerolled reinforcing bars. C. L. Volkman. Concrete 27:39-40 S '25; Excerpts. Iron Age 116:274 Jl 30 '25
New demands for reinforcing steel. L. N. Duryea. il Iron Tr R 75:1565-7 D 11 '24
1924 road program involves large steel tonnage. R. T. Mason. il Iron Tr R 75:349-52 Ag 7 '24
Reinforcing bar and cement production. Eng & Contr (Bldgs) 63:1156 My 27 '25
Square reinforcing rods have bond superiority M. Hirschthal. Eng N 92:501 Mr 20 '24
Steel in reinforced concrete work. H. J. Carswell. il Iron Age 116:1097-9 O 22 '25
Steel still bright in old slag concrete. Eng N 92:358 F 28 '24
Tests of bond resistance in reinforced concrete beams. W. A. Slater. diags Eng N 94: 1050-3 Je 25 '25
Wire mesh used for concrete pipe. il Iron Age 116:144 Jl 16 '25

See also Concrete, Reinforced

Prices

Prices of reinforcing bars from mill, Pittsburgh; tabulation. D. H. Maury. Eng & Contr (W W) 61:1042 My 14 '24

Specifications

Standard specifications for billet-steel concrete reinforcement bars. Am Soc C E Pro 50:1235-7 O '24
Standard specifications for rail-steel concrete reinforcement bars. Am Soc C E Pro 50:1238-9 O '24; Same. Iron Tr R 74:981 Ap 10 '24
Tentative specfications for cold-drawn steel wire for concrete reinforcement. Am Soc C E Pro 50:1251-2 O '24

Standards

Adopt standards for steel reinforcing bars. Eng N 93:482 S 18 '24; Eng & Contr (Bldgs) 62:673 S 24 '24; Good Roads 67:115+ O '24
List of standard extras to be added to base mill prices on concrete bars. Iron Age 114: 1472, 1618 D 4, 18 '24
Only eleven sizes of steel reinforcing bars after January 1, 1925. Mech Eng 47:144 F '25; Same. Eng & Contr (Bldgs) 63:211 Ja 28 '25
Standard sizes for reinforcing bars. W. H. Wheeler. Am Concrete Inst Pro 21:417-18 '25
Steel reinforcing bars. (Simplified practice recommendation no. 26) 8p U.S. Bur. of stand., Washington '25

STEEL, Stainless
Carrying capacity of ball bearings made of stainless steel. A. Hultgren. Am Soc T M Pro 24 pt 2:304-9 '24
Chromium-nickel rustless steel. W. H. Hatfield. il Engineer 140:sup151-4 O 30 '25
Corrosion-resistant alloys—past, present and future—with suggestions as to future trend. P. A. E. Armstrong. Am Soc T M Pro 24 pt 2:193-207 '24

STEEL, Stainless—*Continued*

Corrosion resisting steels of the iron-carbon-chromium and the iron-carbon-chromium-silicon series. T. H. Nelson. Iron Tr R 76:295 Ja 22 '25

Das elektrochemische verhalten der nicht-rostenden stähle. B. Strauss. diags Stahl & Eisen 45:1198-1202 Jl 9 '25

Ferrous alloys resistant to corrosion. B. D. Saklatwalla. il Iron Age 113:1209-13 Ap 24 '24; Same cond. Chem & Met Eng 30:672-3 Ap 28 '24

Heat-treatment of non-corrosive steels. J. K. Wood. Am Mach 62:567-70 Ap 9 '25

How acid mine water affects corrosion-resisting metals. R. J. McKay. Chem & Met Eng 30:228-9 F 11 '24

Making cast stainless steel. J. M. Quinn. il Foundry 53:515-18+ Jl 1 '25; Same. Iron Tr R 77:185-8+ Jl 23 '25; Discussion. Foundry 53:809 O 1 '25

Manufacture and uses of stainless iron; abstracts. H. S. Primrose. Iron Age 115: 479-81 F 12 '25; Brass W 21:83-5 Mr '25; Chem Age (Lond) 12:sup8 Ja 3 '25; Engineer 139:sup74-7 My 29 '25

Metallurgical data on stainless steels. H. H. Abram. Chem & Met Eng 30:430-1 Mr 17 '24

New rustless steel introduced in Sheffield. A. C. Blackall. Blast F & Steel Pl 13:227 My '25

Non-corrodible and non-scaling steels. il Chem Age (Lond) 13:171 Ag 15 '25

Recent developments in corrosion-resisting steels. W. H. Hatfield. Engineer 139:431 Ap 17 '25

Rustless iron and steel. A. C. Blackall. Iron Age 113:1761 Je 12 '24

Stainless chromium steels. W. H. Hatfield. Chem & Met Eng 31:544-6 O 6 '24

Stainless, non-corrosive alloy steels meet exacting chassis and body requirements. Automotive Ind 51:937-8 N 27 '24

Stainless steel and iron. Chem & Met Eng 31:548 O 6 '24

Stainless steel for automobiles. Automobile Eng 14:201-2 Jl '24

Stainless steel for third rail terminal bolts. Elec Ry J 64:780 N 1 '24

Stainless steels; their heat treatment and resistance to sea-water corrosion. J. Strauss and J. W. Talley. il diags Am Soc T M Pro 24 pt 2:217-58 '24

Uses of stainless steel grow rapidly; abstracts. D. G. Clark. Iron Tr R 77:1089-90+ O 29 '25; Iron Age 116:1172-3 O 29 '25

Working of stainless steel; abstract. Mech Eng 46:900 D '24

See also Chromium steel; Iron, Stainless

Bibliography

Stainless steel and stainless iron. V. S. Polansky, comp. 21p Carnegie lib., Pittsburgh '23

STEEL, Structural

Aggressive campaign adopted at 3d annual convention of American institute of steel construction. Iron Tr R 74:363-4 Ja 31 '24

Bending form for structural steel parts. C. W. Cyphers. diags Eng N 92:372 F 28 '24

Bending steel structural members. C. C. Hermann. il diags Mach 31:883-5 Jl '25

Detailing and fabricating structural steel. F. W. Dencer. 511p McGraw-Hill '24

Errors in structural steel detailing. J. Nelson. diags Eng N 92:622-3 Ap 10 '24

Fabricated steel products. Survey of Cur Business 48:43 Ag '25 [continued quarterly]

Fabricators set high standards at American institute of steel construction meeting. Iron Tr R 75:1381-4 N 20 '24; Iron Age 114: 1341-3 N 20 '24

Fireproofing of structural steel. A. W. Sinnamon. diags Iron Age 115:694-6 Mr 5 '25

Materials in aircraft construction. L. Aitchison. Roy Aeronautical Soc J 28:234-48 Ap '24; Same abr. Engineering 117:89-91 Ja 18 '24; Discussion. Roy Aeronautical Soc J 28:248-59 Ap '24

Metals used in airplane construction. F. O. Carroll. il Iron Age 113:1203-6 Ap 24 '24

New steel for ships. A. C. Blackall. Iron Age 114:437 Ag 21 '24

New York dominates structural market. Iron Tr R 77:221+ Jl 23 '25

Paint as a rust preventative. R. C. Sheeler. il Ind Management 68:229-32 O '24; Same. Gas Age 54:891-3 D 27 '24

Paints and painting for structural steel. H. L. Maxwell. Munic Eng 67:139-41 Mr '24

Present status of new high-strength steel. Eng N 94:273 F 12 '25

Repairing steel floor framing damaged by corrosion. il diag Eng N 93:131 Jl 24 '24

Seven plants fabricate steel for Chicago building. il diag Eng N 91:794-5 N 15 '23

Shape book. 2d ed. 232p Illinois steel co., Chicago '24

Steel construction. L. H. Miller. Eng & Contr (Bldgs) 63:1392-8 Je 24 '25; Abstracts. Iron Age 115:1558+ My 28 '25; Iron Tr R 76: 1422-3 My 28 '25

Steel weight nomogram. E. V. Telfer. Marine Eng 29:720-3 D '24

Steels used in aero work. W. H. Hatfield. il diags Roy Aeronautical Soc J 29:469-511; Discussion. 511-34 O '25

Story of steel. il Sci Am 131:324-5 N '24

Structural steel sales since 1913. Iron Age 115:330 Ja 29 '25

Using simplification to increase our sales. J. Kahn. il System 47:151-6+ F '25

Das vanadin in baustählen. R. Hohage and A. Grützner. Stahl & Eisen 44:1713-17 D 18 '24

See also Bridges, Iron and steel; Cars, Steel; Concrete, Reinforced; Molybdenum steel; Painting, Structural; Partitions, Steel; Ships, Iron and steel; Steel, Automobile; Steel, Reinforcing; Steel construction

Estimates

Knowing better than guessing when bidding for contract. Iron Tr R 76:813-16 Mr 26 '25

Prices

Prices of structural shapes from warehouse, Chicago; tabulation. D. H. Maury. Eng & Contr (W W) 61:1042 My 14 '24

Specifications

Consider practice and specifications for steel. Iron Tr R 77:41-2 Jl 2 '25

Developments in structural steel design. L. H. Miller. Can Eng 48:196 F 3 '25

Need of structural steel standards being understood and practiced. Iron Age 113:367-9 Ja 31 '24

Standard specifications. 10th ed. 140p Carnegie steel co., Pittsburgh, Pa. '25

Standard specifications for concrete and reinforced concrete; submitted by the joint committee. Am Soc C E Pro 50:1246-50 O '24

Standard specifications for structural steel for bridges. Am Soc C E Pro 50:1240-5 O '24

Standards

Code of standard practice for steel construction. Power Pl Eng 28:1281 D 15 '24

Standardizing structural steel. Can Eng 48:498 My 19 '25

Tables, calculations, etc.

Structural steel. 134p American bridge co., 71 Bway., New York '24

Testing

Die drehschwingungsmaschine, eine neue prüfmaschine zur gütebestimmung von werkstoffen. O. Föppl. diags Zeit Ver Deutsch Ing 68:203-5 Mr 1 '24

Effect of sulfur on structural steel. Am Soc T M Pro 24 pt 1:185-205 '24

Needed tests on structural steel. F. Burton. Eng N 94:29 Ja 1 '25

Oxyacetylene cut does not injure ductility of steel. il Eng N 94:939 Je 4 '25

Progress report of the A.S.C.E. special committee on stresses in structural steel, Am Soc C E Pro 50:[Soc aff]263-71 Mr '24

STEEL, Structural—Testing—*Continued*
Schwingungsbeanspruchung und rissbildung insbesondere von konstruktionsstählen. diag Elektrotech Zeit 45:505 My 15 '24
Stress repetition and fatigue in steel structures. H. F. Moore. Eng N 95:376-7 S 3 '25
Tangent modulus and the strength of steel columns in tests. O. H. Basquin. U S Bur Stand Tech Pa 263:381-442 '24
Testing structural steels under alternating stresses. O: Föppl. Mech Eng 47:52 Ja '25
Utilizable capacity of steel members of structure. H: S. Prichard. diag Am Soc C E Pro 51:1735-92 N '25
Value of some workshop and laboratory tests. Engineer 139:sup25-7 F 27 '25

STEEL alloys
Air-hardening steels. J. K. Wood. Am Mach 62:265-8 F 12 '25
Alloy metals used in alloy steels. J. L. F. Vogel. Soc Chem Ind J 43:365-9 D 26 '24
Alloy steel development rapid. R. Hadfield. Iron Tr R 74:1627-8 Je 19 '24
Alloy steels. U S Bur Stand Circ 101:101-38 '24
American alloy steel industry. E. F. Cone. Iron Age 116:610-11 S 3 '25
Arc welding of alloy steels. C. J. Holslag. Am Mach 59:907-8 D 20 '23
Beitrag zur frage der kobalt-, chromwolfram-(molybdän-) legierungen. W. Oertel and E. Pakulla. Stahl & Eisen 44:1717-20, pl 14 D 18 '24
Beitrag zur kenntnis des einflusses von kobalt und vanadin auf die eigenschaften von schnellarbeitsstahl. W. Oertel and F. Pölzguter. Stahl & Eisen 44:1165-9, pl 2 S 25 '24
Beiträge zur kenntnis von widerstands-materialien. G: Klein. il Elektrotech Zeit 45: 300-2 Ap 3 '24
Die eigenschaften der edelstähle. P. Goerens. diags Stahl & Eisen 44:1645-59, pl 10 D 18 '24
Growth of American alloy steel industry; statistics since 1909 reviewed. E. F. Cone. Iron Age 114:618-20 S 11 '24
Heat treating—its principles and applications. C: F. Fulton, H. M. Henton and J. H. Knapp. Iron Tr R 75:355-8, 595-8 Ag 7, S 4 '24
Magnetic and physical hardness. J. A. Mathews. Iron Age 115:689-90 Mr 5 '25
Making steel castings stronger. C: McKnight, jr. il Iron Age 115:469-72, 555-7 F 12-19 '25
Manufacturing and heat treating alloy steel. M. A. Grossmann. il Iron Tr R 75:168-72, 215-18 Jl 17-24 '24
Méthodes de recherche et de contrôle dans la métallurgie de précision. P. Chevenard. diags Soc Ing Civils Bul 76:932-72 Jl '23; Abstract. Génie Civil 83:91-2 Jl 28 '23
Molybdenum, cerium and related alloy steels. H. W. Gillett and E. L. Mack. 299p [bibliog. p. 282-92] Chemical catalog co. '25
Molybdenum in cast steel and iron rolls. W. N. Bratton. il Iron Age 112:1509-10 D 6 '23
Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. bibliog Mech Eng 47:832-6 O '25
Properties and uses of alloy steels. Chem Age (Lond) 12:sup26-7 Ap 4 '25
Properties and uses of alloy steels. R. H. Aborn. Iron Age 115:685-7 Mr 5 '25
Properties of steel containing tellurium. G. B. Waterhouse and I. N. Zavarine. il Iron Age 112:1575-6 D 13 '23
Die rekristallisation von kohlenstoffstählen und legierten stählen. W. Schneider and E. Houdremont. Stahl & Eisen 44:1681-7 D 18 '24
Rolling alloy steel. J. Clausen. il diags Blast F & Steel Pl 12:113-16+ F '24
Steel and electrical engineering. R. Hadfield. il Electrician 93:606-9, 637-9 N 28-D 5 '24
Steel for higher pressures and elevated temperatures. V. T. Malcolm. il Power 59:1020-1 Je 24 '24
Tabular presentation of chemical and physical properties of corrosion-resisting alloys. Chem & Met Eng 31:79-83 Jl 14 '24
Ueber fehlstellen im legierten stahl. A. Schleicher. Stahl & Eisen 43:1449-52 N 22 '23
Vergleichende untersuchungen über das verhalten von edelstahl beim schmieden unter dem hammer und unter der presse. F. Pacher and F. Schmitz. il Stahl & Eisen 44: 1668-74 D 18 '24
Die verwendung von titan in der stahlerzeugung. F. Rapatz. Stahl & Eisen 44:725 Je 19 '24

See also Chromium-nickel steel; Chromium steel; Cobalt steel; Manganese steel; Molybdenum steel; Nickel-chromium steel; Nickel steel; Silicon steel; Steel, Stainless; Steel, Structural; Tool steel; Tungsten steel; Vanadium steel

Cost
Alloy additions increase steel cost. J. M. Quinn. Foundry 52:306a Ap 15 '24

STEEL balls. See Balls, Steel

STEEL barrels. See Barrels, Steel

STEEL bars
New card revises cold-finished extras. Iron Tr R 74:718-19 Mr 13 '24; Iron Age 113:789-91 Mr 13 '24
Reduction in area of 0.505-inch bars. Foundry 53:560a, 608a Jl 15-Ag 1 '25
Sheet bars cast centrifugally. L. Cammen. il diags Iron Age 113:1857-8 Je 26 '24

See also Steel, Reinforcing

Specifications
Bar steel standards. Iron Tr R 76:1255-6 My 14 '25
Commercial quality bar steel defined. Iron Age 115:1282 Ap 30 '25
Standard specifications for low-carbon steel splice bars. Portuguese-English ed. U S Bur For & Dom Com Industrial Standards 202: 1-10 '25

STEEL bins. See Bins, Steel

STEEL cars. See Cars, Steel; Freight cars, Steel

STEEL castings
A.F.A. session on steel foundry practice. Iron Age 116:1040-1 O 15 '25; Foundry 53:864 N 1 '25
Annealing castings electrically. il Iron Tr R 75:1225-7 N 6 '24
Annealing large castings to prevent distortion. J. A. Capp. il Am Mach 63:385-7 S 3 '25
Cast Leviathan's large steel hawse pipe. il diags Foundry 52:381-4 My 15 '24
Casting high speed steel tools. J. M. Quinn. il Iron Tr R 74:226-30 Ja 17 '24; Same. Foundry 52:13-17 Ja 1 '24
Casting manganese steel. H. E. Diller. il Foundry 52:245-9, 298-302 Ap 1-15 '24
Causes of defects in castings of complex design. J. McIntosh. Iron Age 114:1607-8 D 18 '24
Cooling cause of brittleness. S. A. Richardson. il diag Iron Tr R 77:550-2+ S 3 '25
Defend use of castings. E. C. Barringer. Foundry 53:490-1 Je 15 '25
Designing steel castings. E. R. Young. diags Mach 30:701-3, 790-2 My-Je '24
Distribute costs on each job; manufacturer of electric steel castings makes detailed tabulation of expenses. E. C. Boehringer. il diag Foundry 52:207-12 Mr 15 '24; Same. Iron Tr R 74:853-7 Mr 27 '24
Five steel companies using the electric method of melting agree to anneal all castings. H. A. Neel. Automotive Ind 51:926 N 27 '24
Great loss from defective castings. Iron Age 114:755-6 S 25 '24
High-speed steel for cast tools. J. M. Quinn. il Iron Age 112:1711-12 D 27 '23
Machining massive parts of the world's largest prime movers. E. J. Armstrong. il diags Mech Eng 46:263-7 My '24
Make electric steel in South; plant of Dibert, Bancroft & Ross co., ltd., New Orleans. il Foundry 52:312-15 Ap 15 '24; Same. Iron Tr R 74:913-16 Ap 3 '24

STEEL castings—*Continued*
Makes heavy steel castings; Dominion foundries and steel company, Hamilton, Ont. P. Dwyer. il plan Foundry 53:61-7 Ja 15 '25
Makes steel from unselected scrap. S. H. Bunnell. diag Iron Tr R 77:559 S 3 '25
Making hard manganese steel involves careful treatment. H. Hermanns and H. Meixner. Iron Tr R 76:452-4, 509-11 F 12-19 '25; Same. Foundry 53:323-5, 356-8 Ap 15-My 1 '25
Making semisteel castings in France. Foundry 52:734 S 15 '24; Same. Iron Tr R 75: 949-50 O 9 '24
Making steel castings stronger. C: McKnight, jr. il Iron Age 115:469-72, 555-7 F 12-19 '25
Managing steel foundries. R. A. Bull. Foundry 53:431-3, 476-9 Je 1-15 '25; Same abr. Mech Eng 47:653-6; Discussion. 656-7 Ag '25
Manganese steel maker builds coast foundry. il Iron Tr R 77:490+ Ag 27 '25
Manufacture of heavy steel castings for ships, with special reference to stern frames, rudders, shaft brackets and stems. H. P. Frear. il diag Engineering 116:726-9, 757-60 D 7-14 '23; Abstract, with discussion. Marine Eng 28:754-7 D '23
Mechanical aids handle sand in manganese shop. P. Dwyer. il Foundry 53:140-4+ F 15 '25
Oil fields demand special electric steel castings. D. W. Moore. il Iron Tr R 75:1082-3 O 23 '24; Same. Foundry 52:906-7 N 15 '24
Proportioning and shaping of sink heads. J: H. Hall. Iron Age 114:822-3 O 2 '24
Recommended practice for steel castings for gears. Am Mach 63:646 O 22 '25
Refining metals electrically. L. J. Barton. il Foundry 53:189-92, 657-60, 697-700+, 732-4, 796-8 Mr 1, Ag 15-O 1 '25
Résultats obtenus par l'étude dilatométrique des fontes. P. Chevenard and A. Portevin. Génie Civil 86:611-12 Je 20 '25
Reviews factors affecting costs of steel castings. W. J. Corbett. il Foundry 53:640-4 Ag 15 '25; Excerpts. Iron Age 115:1556-8 My 28 '25; Iron Tr R 76:1423-4 My 28 '25
Saves riser metal in casting steel. W. A. Johnson and W: H. Albohn. Foundry 52:276 Ap 1 '24
Selling special castings; filling the buyer's wants in manganese steel. D. M. Avey. il Foundry 53:261-6 Ap 1 '25
Selling steel foundry work. W. J. Corbett. Foundry 52:566-7 Jl 15 '24; Same. Iron Tr R 75:415+ Ag 14 '24
60,000-kw. turbine casting. il Gen Elec R 28: 328 My '25
Skimmer core reduces steel foundry losses. J. H. Crawley. il Foundry 53:743-4 S 15 '25
Special open-hearth steel castings. S. H. Bunnell. il Iron Age 115:901-3 Mr 26 '25
Steel and electrical engineering. R. Hadfield. il Electrician 93:637-9 D 5 '24
Steel castings discussed at A.F.A. meeting. Foundry 52:841-2 N 1 '24
Steel foundry practice at Schenectady. L. S. Love. il Iron Age 114:815-19 O 2 '24
Steel foundry work. F. A. Melmoth. il Foundry 52:143-8 F 15 '24
Surface appearance of electric steel castings. Am Mach 61:320 Ag 21 '24
Use of the small converter for the production of large steel castings. C. Vanzetti. Iron & Steel Inst J 108:59-67, pl 1-2; Discussion. 68-9 no 2 '23
Valve castings made in steel. P. Dwyer. il diag Foundry 52:579-83+ Ag 1 '24
When buying castings—you should know how design affects product, etc. W. J. Corbett. Iron Tr R 76:282-4 Ja 22 '25; Same. Foundry 53:181-5 Mr 1 '25

See also Semi-steel; Steel ingots

Cleaning

Cleaning steel castings economically. il Foundry 52:688-90 S 1 '24
Cutting heavy gates and risers. il Foundry 53:802-3 O 1 '25
Keeps tab on cleaning costs. B. K. Price. il Foundry 52:272-4 Ap 1 '24; Same. Iron Tr R 74:1165-6+ My 1 '24

Inspection

Inspection standards for steel castings. W. J. Corbett. il Iron Age 115:115-19 Ja 8 '25
Steel castings and X-rays. A. St John. il Iron Age 116:802-4 S 24 '25
Using X-rays to detect hidden dangers in plant equipment. H. H. Lester and others. il diag Chem & Met Eng 31:619-22 O 20 '24
X-ray examination of steel castings. I. E. Moultrop and E. W. Norris. il diags Mech Eng 47:391-9 sec 2 My '25; Same. Engineering 120:120-2 Jl 24 '25; Same cond. Power 61:1023-6 Je 30 '25; Abstracts. Iron Tr R 76: 1420 My 28 '25; Iron Age 115:1591 My 28 '25; Discussion. Mech Eng 47:657-60 Ag '25
X-ray investigation of steel castings for advanced steam conditions. F. H. Morehead. il Power 61:520-2 Ap 7 '25

Specifications

Steel casting specifications. Am Mach 60:8 Ja 3 '24

Standards

Die normung von stahlguss (stahlformguss). R. Krieger. Stahl & Eisen 45:837-9 My 28 '25

Statistics

Steel castings—bookings. Survey of Cur Business 44:27-8 Ap '25

Testing

High manganese steel castings. J: H. Hall. Iron Age 116:879-84 O 1 '25

STEEL columns. See Columns, Steel

STEEL construction
Adaptability of electric arc welding to the fabrication of structural steel. A. G. Bissell. il diag Am Arch 128:327-32 O 5 '25
Bias in report on unit stress arouses criticism. Iron Tr R 77:132-3+ Jl 16 '25
Building code committee's recommendations for unit stresses question quality of steel and control of fabrication and erection. il Iron Tr R 77:65-8 Jl 9 '25
Compressed-air plant for erecting Chicago trainshed. diags Eng N 93:963-4 D 11 '24
Contraction and expansion in steel structures; inclined-belt-conveyor. C. C. Herman. il Power 62:535 O 6 '25
Criticism, a dissenting and a suggestion. Am Arch 128:71-2 Jl 15 '25
Cutting costs on steel buildings. J. C. Burton. Nation's Business 12:68-9 N '24
Derricks for steel erection. Eng N 92:1026-7 Je 12 '24
Details of a modern steel frame one-story shop. il diags plans Eng N 92:456-9 Mr 13 '24
Domed roof construction; First church of Christ, scientist, University City, Mo. il diags plans Am Arch 126:635-40 D 31 '24
Estimating the structural steel of buildings. R. Fleming. Eng N 93:387-90 S 4 '24
Exhibition hall of high-strength structural steel. il diags Eng N 93:1026 D 25 '24; Discussion. H. G. Sharp. 94:330 F 19 '25
Final report of the special committee on stresses in structural steel. Am Soc C E Pro 51:392-405 Mr '25; Abstract. Eng N 94:198-9 Ja 29 '25; Excerpt. Ry Age 78:287 Ja 24 '25; Discussion. Am Soc C E Pro 51:696-700, 926-30, 1198-1207 Ap-My, Ag '25
Growth of steel frame buildings. H. J. Burt. il diags Eng N 92:680-4 Ap 17 '24
How a contractor schedules operations for a large office building. W. J. Lynch. W Soc E J 29:265-72 Je '24; Same. Eng & Contr (Bldgs) 62:190-6 Jl 23 '24
Layout and design of large modern freight terminal; Pennsylvania R.R. freighthouse at Detroit. il plans Eng N 93:227-30 Ag 7 '24
Measured stresses in columns of 18-story building. il plan Eng N 93:540-2 O 2 '24
Municipal building inspection and steel fabrication. F. Burton. Eng & Contr (Bldgs) 63:208-11 Ja 28 '25

STEEL construction—*Continued*
Penalty of dead load; Bronx terminal market. New York. il plan Am Arch 127:515-17 Je 3 '25; Same. Can Eng 49:539-41 N 10 '25
Proposes code of standard practice for steel construction. W Soc E J 29:[current news] 211 N '24
Seven plants fabricate steel for Chicago building. il diag Eng N 91:794-5 N 15 '23
Should we consider secondary stresses? E: Godfrey. Can Eng 48:495-8 My 19 '25
Steel and timber structures. G: A. Hool and W. S. Kinne. 695p McGraw-Hill '24
Steel construction. L. H. Miller. Eng & Contr (Bldgs) 63:1392-8 Je 24 '25; Abstracts. Iron Age 115:1558+ My 28 '25; Iron Tr R 76: 1422-3 My 28 '25
Steel construction with the use of tubular members. il diags Engineering 118:674-5 N 14 '24
Steel erection; how truck mounted crane was used in building operation. il Eng & Contr (Bldgs) 64:195-6 Jl 22 '25
Steel frame brick residence supported on steel bents. il diag Eng N 95:625-6 O 15 '25
Steel frame textile mill building with concrete floors. il diags Eng N 95:341-4 Ag 27 '25
Steel stresses in buildings. Can Eng 48:309-10 Mr 10 '25
Structural engineers' handbook. M. S. Ketchum. 3d ed., enl. 1065p McGraw-Hill '24
Structural steel frame of the American radiator building. il diags plans Am Arch 126:475-80 N 19 '24
Structural steel framing of the Mecca temple, New York. il diags plan Am Arch 127:173-80 F 25 '25
34-story steel-frame tower building in Chicago; the Tribune building. il diags Eng N 94:848-50 My 21 '25
Through-truss spans converted to deck girder viaduct. il diags Eng N 92:150-2 Ja 24 '24
Tribune tower. H. J. Burt. il diags plans W Soc E J 29:451-64 D '24; Same. Eng & Contr (Bldgs) 63:629-43 Mr 25 '25
Truss maintains equilibrium in load on footings. C: Carswell. diags Eng N 91:1061-2 D 27 '23
Utilizable capacity of steel members of structures. H: S. Prichard. diag Am Soc C E Pro 51:1735-92 N '25
Welding of fabricated steel structures discussed by American welding society. Ry Age 77:851-2 N 8 '24; Iron Age 114:1211-12 N 6 '24; Iron Tr R 75:1246-7 N 6 '24
Welding vs. riveting of large structures. W. Spraragen. Iron Age 115:1051+ Ap 9 '25: Same. Eng & Contr (Bldgs) 64:946-51 O 28 '25
Will measure stresses in steel frame of Philadelphia building. diag Eng N 93:341 Ag 28 '24
Wind stresses in steel mill buildings. R. Fleming. diags Engineering 119:65-9, 123 Ja 16, 30 '25
Work of American institute of steel construction and 18,000-pound standard. Eng & Contr (Bldgs) 64:702 S 23 '25
Works of Sir William Arrol and co. (Swansea), limited. il diags plan Engineering 119:561-4, pl 35-6 My 8 '25

See also Bridges, Iron and steel; Cars, Steel; Chimneys, Iron and steel; Columns, Steel; Concrete, Reinforced; Concrete construction; Corrosion and anti-corrosives; Cradles (docks); Elevated railroads; Girders; Ships, Iron and steel; Standpipes; Steel, Structural; Steel houses; Strains and stresses; Strength of materials; Towers, Steel

Design

Bad design of short-span steel trusses. J. Feld. il Eng N 94:529-30 Mr 26 '25
British and American practice in structural steel design. R. Fleming. Engineering 119: 707-9 Je 5 '25; Discussion. A. Morley. 119: 766 Je 19 '25
C.E.S.A. specifications for steel. Can Eng 48:367-8 Mr 31 '25
Errors more or less common in steelwork designing. R. Fleming. Eng N 95:501 S 24 '25
Some features of plate girder design. R. Fleming. diags Can Eng 48:161-4 Ja 27 '25

Safety devices and measures

Safety in building construction. W. E. Welch. il Safety Eng 46:284-7 D '23

Specifications

Bidding plans for structural steelwork defined. Eng N 95:667 O 22 '25

STEEL cutting
Lapointe hydraulic broaching machine. il Mach 32:156-7 O '25; Automotive Ind 53:585 O 1 '25; Iron Age 116:964 O 8 '25
Tests structural steel cut by torch. E. E. Thum. Iron Tr R 76:1262 My 14 '25; Same cond. Iron Age 115:1414 My 14 '25; Same cond. Eng & Contr (Bldgs) 64:208 Jl 22 '25
Use of city gas for cutting steel. J. H. Gumz. il Am Gas J 119:525-7+ N 10 '23

STEEL fences. See Fences, Steel

STEEL forgings
Defective material and processes. H. Brearley. il Blast F & Steel Pl 13:430-3, 470-2+ N-D '25
Defects in large forgings. J. F. Harper. il Mech Eng 47:400-2 sec 2 My '25; Same. Blast F & Steel Pl 13:278-81 Jl '25; Abstract. Iron Age 115:1834 Je 25 '25; Discussion. Mech Eng 47:662-3 Ag '25
Le dégrossissage des pièces de forge sur le tour. N. Sawine. Génie Civil 84:110-12 F 2 '24
How English test big forgings. il Iron Tr R 74:1557-8 Je 12 '24; Abstract. Mech Eng 46: 493-4 Ag '24
Large steel forgings. W. H. Hatfield. Engineer 138:275-6 S 5 '24
Manufacture and heat treatment of large forgings; abstracts. A. O. Schaefer. Mech Eng 47:673-4 Ag '25; Am Mach 63:182 Jl 30 '25
Steels used in locomotives; abstracts. L. H. Fry. Iron Age 114:1686-7+ D 25 '24; Ry Mech Eng 99:88-90 F '25; Ry R 76:515-18 Mr 14 '25

STEEL handling
Handling and storing of steel. C. C. Hermann. il Ind Management 70:222-4 O '25

STEEL houses
Britain experiments with steel house. V. Delport. il Iron Tr R 76:285-6 Ja 22 '25
Britons enthusiastic over all-steel houses. J. Horton. il plans Iron Tr R 76:753-4 Mr 19 '25; Same. Blast F & Steel Pl 13:206-7 My '25
La construction de maisons en acier, par le système Telford. il plans Génie Civil 86: 290-1 Mr 21 '25
English all steel house; Telford system. plans Eng & Contr (Bldgs) 63:877-80 Ap 24 '25
English experiments with steel as a housing material. Monthly Labor R 20:394-5 F '25
Gas equipment in steel houses. il Gas J (Lond) 169:688 Mr 18 '25
Telford all-steel houses. il diags Engineering 119:255-6, 257 F 27 '25

STEEL industry and trade
American iron, steel and heavy hardware association annual meeting, Detroit. Iron Age 115:1561-4 My 28 '25
Automotive industry best customer of steel products. W: C. Hirsch. Automotive Ind 50: 7-11 Ja 3 '24
Autumn industries. Moody's Inv Serv 17:279 Ag 20 '25
Business ills clearing away. E. H. Gary. Iron Tr R 76:1387+ My 28 '25
Chain of warehouses standardized. il Iron Age 114:386-7 Ag 14 '24
Conservation of scrap iron and steel. G. E. Eddins. Comm M 7:21-7 Je '25; Same. Blast F & Steel Pl 13:295-7 Jl '25
Jolt for stee. producers and fabricators; time for new sales and advertising methods. G. H. Charls. Ptr Ink 126:73 F 14 '24
Judge Gary tells about Stinnes interview. Iron Age 114:1279-80 N 13 '24

STEEL industry and trade—*Continued*
Review and outlook of the steel situation. E. T. Weir. Iron Age 115:425-6 F 5 '25
Selling practices are analyzed. E. T. Weir. Iron Tr R 74:1497-8+ Je 5 '24; Same cond. Iron Age 113:1639-40+ Je 5 '24
Selling that reaches the scientific buyers for the steel industry. il Sales Management 8: 253-6 F 7 '25
Steel and barometrics. Moody's Inv Serv 17: 311 S 17 '25
Steel industry on new basis. E. H. Gary. Iron Tr R 75:1154-5+ O 30 '24
Steel trade outlook. Moody's Inv Serv 17:166 My 14 '25

See also Iron industry and trade; Rolling mills; Sheet steel; Steel, Structural; Steel mergers; Steel workers; Steel works; *also* Bethlehem steel corporation; United States steel corporation

Advertising

If Mr Schwab asked me. A. Stote. Ptr Ink 127: 50+ My 22 '24
Sheet steel has started to fight. Ptr Ink 131:124+ Ap 2 '25
Yes, steel can be advertised. L. Ellis. Ptr Ink 129:41-2+ N 13 '24

Costs

Cost trends in manufacturing. L: H. Haney. Iron Age 115:138-40, 414-16, 778+, 1283-4+, 1347-8+, 1574+, 1716+ Ja 8, F 5, Mr 12, Ap 30, My 7, 28, Je 11 '25
Steel cost data given Congress. Iron Tr R 76:1156 Ap 30 '25

Finance

Is steel over-capitalized? J: W. Hill. Iron Tr R 76:1578-9 Je 18 '25
Steel company earnings analyzed. Iron Age 115:1424 My 14 '25
Steel industry trails in earnings. J: W. Hill. Iron Tr R 76:1257-8 My 14 '25
Steel industry war-time earnings. Iron Age 115:1345+ My 7 '25

Securities

Seven interesting steel bonds. Moody's Inv Serv 16:439 D 4 '24
Stocks and bonds of leading steel companies. R. V. Sykes. Forbes 15:314-15 D 1 '24

Statistics

Crude steel. Survey of Cur Business 30:72-3 F '24 [continued quarterly]
Depression in the iron and steel trade. Economist 100:699-700 Ap 11 '25
Iron and steel production. Comm M 6:12-13 Mr '25; Same. Econ W n s 29:370-1 Mr 14 '25; Same. Blast F & Steel Pl 13:205-6 My '25
Iron and steel production of small countries. Iron Age 115:983 Ap 2 '25
Pig iron and steel output of the world. E. F. Cone. Iron Age 113:70-3 Ja 3 '24
Production of pig iron and crude steel in the United States in December and during 1924. Econ W n s 29:86-7 Ja 17 '25
Steel and iron trade. Moody's Inv Serv 16:53-6 Ja 31 '24
World output nearly prewar. Iron Tr R 74: 68-9 Ja 3 '24
World tonnage is set for rise. Iron Tr R 76:40-1 Ja 1 '25; Excerpt. Econ W n s 29:123-4 Ja 24 '25
World's pig iron and steel output. E. F. Cone. Iron Age 115:331-3 Ja 29 '25

Alabama

History of steel making in Alabama. J. Bowron. Manuf Rec 86:71-3 O 23 '24

Austria

Austrian iron and steel industry and trade. E. M. Zwickel. U S Bur For & Dom Com Trade Information Bul 265:1-19 '24
Böhler steel. H: Obermeyer and A. L. Greene. il Blast F & Steel Pl 12:281-4 Je '24

Belgium

Belgian iron and steel in 1924. Iron Age 115: 58-9 Ja 1 '25
Belgian steel industry gains. Iron Tr R 76: 113 Ja 1 '25
Belgian works now fully restored. G. Trasenter. Iron Tr R 74:1559 Je 12 '24

Canada

Canadian iron and steel industry and trade. G. E. Phoebus. U S Bur For & Dom Com Trade Information Bul 285:1-12 '24
Iron and steel industry in Canada. C: S. Cameron. Engineer 138:112-13, 128-9 Jl 25-Ag 1 '24
Manufacture of iron and steel in Canada. Can Eng 49:296 S 8 '25
Operations of British empire steel corporation limited in 1924. Iron Age 115:349 Ja 29 '25
Production of pig iron and crude steel in Canada in 1923. Econ W n s 27:196 F 9 '24
Tariff reductions have disastrous effects on Canadian industries. F. Sanderson. Iron Age 115:347-9 Ja 29 '25

Europe

European industry hopes for Ruhr peace. Iron Age 113:98, 101-6 Ja 3 '24

France

France's fortunes on upgrade. L. W. Moore. Iron Tr R 76:111-12 Ja 1 '25
France's problems financial. V. Delport. Iron Tr R 76:1449-50 Je 4 '25
French iron and steel industry. C. L. Jones. U S Bur For & Dom Com Trade Information Bul 367:1-42 [bibliog. p. 42] '25
French iron and steel industry in 1924. Iron Age 115:57-8 Ja 1 '25
French iron and steel production during the first half of 1924. Iron Age 114:1555 D 11 '24
French producers are confident. V. Delport. Iron Tr R 74:117-18 Ja 3 '24
Production of pig iron and crude steel in France in 1923. Econ W n s 27:267 F 23 '24
Production of pig iron and crude steel in France in 1924. Econ W n s 29:304 F 28 '25

See also Iron industry and trade—France; Steel works—France

Germany

Aus dem tätigkeitsbereich der nordwestlichen gruppe des Vereins deutscher eisen- und stahlindustrieller. Stahl & Eisen 45:873-8, 940-4 Je 4-11 '25
Aus der geschichte der Vereins deutscher eisen- und stahlindustrieller. C. Klein. Stahl & Eisen 44:1309-24 O 23 '24
Betrachtungen zur aussenhandelsbilanz von eisen und stahl. O. Dorth. Stahl & Eisen 45: 1087-9 Jl 2 '25
L'évolution de l'industrie sidérurgique allemande des territoires occupés, et particulièrement de la Ruhr. Tonus. Génie Civil 85: 172-5, 189-92 Ag 23-30 '24
Der gegenwärtige stand des verbandswesens in der deutschen eisen- und stahlindustrie. B. Bruhn. Stahl & Eisen 45:177-80 F 5 '25
German iron and steel market shows improvement. Iron Age 115:60 Ja 1 '25
German iron and steel production. Iron Age 115:764-5 Mr 12 '25
German outlook is promising. E. H. Regensburger. Iron Tr R 76:114-15 Ja 1 '25
German output of steel ingots and castings. Iron Age 115:1055-6 Ap 9 '25
German production of pig iron and crude steel in 1924. Econ W n s 29:196 F 7 '25
German steel selling standardized. Iron Tr R 77:657 S 10 '25
German steel syndicate. Iron Age 114:1288 N 13 '24
Germany is striving to compete. V. Delport. il Iron Tr R 76:159-62+ Ja 8 '25
Die leistung der walzwerke im deutschen zollgebiet in den jahren 1910 bis 1923. Stahl & Eisen 45:904-12 Je 4 '25
Paris controls Germany's trade. E. H. Regensburger. Iron Tr R 74:119-22 Ja 3 '24
Present situation in Germany. H. Hermanns. il Blast F & Steel Pl 12:104-6 F '24
Proposed European steel trust. A. C. Blackall. Blast F & Steel Pl 13:162-3 Ap '25

STEEL industry and trade—Germany—*Cont.*
Quotas of German steel syndicate. Iron Age 114:1671-2 D 25 '24
Year of collapse in German steel industry. diag Iron Age 113:229-31 Ja 17 '24

See also Iron industry and trade—Germany; Steel works—Germany

Great Britain

British home market invaded. Iron Tr R 76: 109-10 Ja 1 '25
British steel industry expands. W. J. Larke and M. S. Birkett. Iron Tr R 74:1697-1700+ Je 26 '24
Economics of the heavy iron and steel industry. F: Mills. Iron & Steel Inst J 111:31-42 no 1 '25; Same cond. Engineer 139:524-5 My 8 '25
Ferrous metals. M. S. Birkett. (Resources of the Empire ser. v. 8, pt. 1) 165p Van Nostrand '24
Iron and steel in the industrial revolution. T: S. Ashton. 265p Longmans '24
Production of pig iron and crude steel in Great Britain in December and during 1923. Econ W n s 27:159-60 F 2 '24
Production of pig iron and crude steel in Great Britain in 1924. Econ W n s 29:195-6 F 7 '25
Slump in British steel and its causes. P. W. Wilson. Annalist 26:542+ O 30 '25
United steel companies, limited, 7th general meeting. Economist 99:665-7 O 25 '24

See also Steel works—Great Britain; *also* Dorman, Long and company, limited

India

India's adventure in protection on steel. Iron Age 114:289-90 Jl 31 '24
More protection for the Indian steel industry. Blast F & Steel Pl 13:38 Ja '25
New Indian tariff. Iron Age 114:1051 O 23 '24

Italy

Iron and steel industry of Italy. G. E. Falck. Iron & Steel Inst J 108:11-32 no 2 '23; Same cond. Iron Tr R 73:1545-8 D 6 '23; Discussion. Iron & Steel Inst J 108:32-4 no 2 '23

See also Steel works—Italy

Japan

Are we losing Japan's steel trade? Iron Tr R 77:662 S 10 '25
Foreign trade for American steel. Iron Age 112:1645-6 D 20 '23
Iron and steel industry of Japan. E. Kothny. Iron Age 112:1317-20, 1591-3, 1658-60 N 15, D 13-20 '23
Japan becomes our best market. L. Becker. Iron Tr R 74:414+ F 7 '24
Japan burdened by over supply of steel. Iron Tr R 75:18 Jl 3 '24

Missouri

See St Louis as steel center. Iron Tr R 74: 1482-4 Je 5 '24
Southwest's steel needs are constantly expanding. A. O. Backert. il Iron Tr R 75:sup 5-6 Ag 21 '24

Ohio

Ohio a leader in iron and steel. Iron Tr R 75: 1438-9 N 27 '24

Pacific coast

Coast steel groups organize; steel industry conference at Del Monte, Cal., Jan. 23-24. Iron Tr R 76:484-5 F 12 '25
To promote steel industry for California; conference at Del Monte. C: Downes. Iron Age 115:409-10 F 5 '25

South Africa

German capital for steelmaking in South Africa. Engineer 139:57-8 Ja 9 '25
Steel development in South Africa. Engineer 137:144-5 F 8 '24

Southern states

Iron and steel development of the South. B. E. V. Luty. il Manuf Rec 86:289-94 pt 2 D 11 '24

Sweden

Acid Bessemer practice in Sweden. Iron Age 114:637-8 S 11 '24

United States

A B C of iron and steel. A. O. Backert, ed. 5th ed. 415p Penton pub. co. '25
As 1924 passes, 1925 looms large. Iron Age 115: 1-3+ Ja 1 '25
Business looks for fall recovery. Iron Age 115: 1842+ Je 25 '25
Business readjustment nearly completed. L: H. Haney and B. M. Broudy. Iron Age 115: 1507-8+ My 21 '25
Capacity of the sheet steel mills. W. S. Horner. Iron Age 113:1522-3 My 22 '24
Decrease in iron and steel output. Dun's R 33:8-9 My 23 '25
Distribution of rolled steel by states. Iron Age 115:539-50 F 19 '25
Distribution of steel exports in 1924. Iron Age 115:212, 457, 1017-18 Ja 15, F 5, Ap 2 '25
Exports as a percentage of production. Iron Age 113:45-6 Ja 3 '24
Foreign trade in iron and steel for 1923. Iron Age 113:509-12 F 14 '24
From receivership to many millions; amazing record of McKinney steel revealed. J: W. Hill. il Iron Tr R 76:1379+ My 28 '25
Growth of American alloy steel industry; statistics since 1909 reviewed. E. F. Cone. Iron Age 114:618-20 S 11 '24
Has our industrial capacity been overbuilt? A. O. Backert. il Iron Tr R 74:3-6+ Ja 3 '24
Industry becomes more efficient. A. J. Hain. Iron Tr R 74:1365-6 My 22 '24
Iron and steel exports from the United States for 11 months of 1923 and 1924, with percentage taken by each country. Iron Age 115:357 Ja 29 '25
Iron and steel industries show reaction. Dun's R 32:10-11 Je 7 '24
Iron and steel; marketing and statistics in 1923. B. E. V. Luty. Eng & Min J 117:138 Ja 19 '24
Iron and steel production rises sharply. Dun's R 33:10-11+ F 7 '25
Iron and steel review of 1923. B. E. V. Luty. Blast F & Steel Pl 12:5-7 Ja '24
Iron and steel review of 1924. B. E. V. Luty. Blast F & Steel Pl 13:2-4 Ja '25
Iron and steel; sharp upturn in demand at end of 1924. B. E. V. Luty. Eng & Min J 119:143-4 Ja 17 '25
Is American steel capacity over-rated? J: A. Topping. Iron Tr R 77:301-2 Ag 6 '25; Same (without chart). Iron Age 116:347-8 Ag 6 '25
Large increase in steel production in 1923. Comm & Fin Chr 118:2760-1 Je 7 '24
Life of Elbert H. Gary; the story of steel. I. M. Tarbell. 361p Appleton '25
Most iron imported in raw state. F. M. Leonard. Iron Tr R 75:290-3 Jl 31 '24
Movement during war to federalize steel industry. E. H. Gary. Comm & Fin Chr 118: 2659-62 My 31 '24; Same cond. Iron Tr R 74: 1418-19 My 29 '24; Excerpt. Econ W n s 27: 764-6 My 31 '24; Abstract. Iron Age 113:1559 My 29 '24; Criticism. B. M. Baruch. Comm & Fin Chr 118:2662-3 My 31 '24; Same cond. Iron Tr R 74:1448 Mr 29 '24; Same cond. Iron Age 113:1559-60+ My 29 '24
1923 set a hard pace for 1924. Iron Age 113: 1-3+ Ja 3 '24
1923 steel output near record. Iron Tr R 74: 1580 Je 12 '24; Iron Age 113:1691 Je 5 '24
Our interdependent industries. J. Handy. il Nation's Business 12:30-3 Mr '24
Pacific coast steel and its significance for western iron mining. E. Y. Dougherty. map Eng & Min J 117:446-8 Mr 15 '24
Peak of war-time production exceeded in 1923. Index p 4-5 Ja '24
Per capita production declines. Iron Tr R 76: 47 Ja 1 '25

STEEL industry and trade—United States —*Continued*
Pig iron, steel and the trend of business. B: Baker. Annalist 23:708 Je 23 '24
Present conditions in the American iron and steel industry. Econ W n s 28:622-3 N 1 '24
Present conditions in the American steel industry. Econ W n s 30:508-11 O 10 '25; Same. Nat City Bank p 165-9 O '25
Production of pig iron and crude steel in the United States in December and during the year 1923. Econ W n s 27:86-7 Ja 19 '24
Quarter century of iron and steel production. Iron Age 113:32-3 Ja 3 '24
Railroad consumption amazing; carriers' steel requirements in 1923. E. C. Kreutzberg. Iron Tr R 74:11-15 Ja 3 '24
Record steel needs indicated. Iron Tr R 76: 16-20 Ja 1 '25
Report of the Federal trade commission on war-time profits and costs of the steel industry. 138p Federal trade commission, Washington '25
Review world's economic year; advance census figures on iron and steel manufacture for 1921. Iron Tr R 73:1559 D 6 '23
Steel capacity in the United States; where, how much and what is made. map Iron Age 115:9-18 Ja 1 '25
Steel companies. Moody's Inv Serv 17:94, 279 Mr 19, Ag 20 '25
Steel companies during 1923. Nat City Bank p 35-6 Mr '24
Steel company earnings fall. Iron Age 114:260 Jl 31 '24
Steel consumption is reduced. E. C. Kreutzberg. Iron Tr R 76:12-15 Ja 1 '25
Steel consumption of individual states. Iron Age 115:609-10 F 26 '25
Steel industry moving westward. C. J. Stark. il Iron Tr R 75:sup3-4+ Ag 21 '24
Steel output falls to sixth; finished products also lower. Iron Tr R 76:1608-9 Je 18 '25; Excerpts. Iron Age 115:1777 Je 18 '25
Steel production and prices. Published in weekly numbers of Commercial and financial chronicle
Steel, the nation and St Louis. il Am Ind 26:24-6 O '25
Steel trade. Moody's Inv Serv 16:441-4 D 4 '24
Story of steel. il Sci Am 130:5, 28, 108-9+, 162-3+, 234-5, 310-11+, 396-7+ Ja-Je '24
Take the mystery out of business! G: M. Verity. Ptr Ink 127:73-4+ Je 19 '24
Trend of iron and steel markets. L: H. Haney. Iron Age 115:278, 492, 558-60, 839-40+, 1059-60+, 1132-4, 1654+; 116:86+, 217-18+; 356+, 422+, 478+, 755-6+, 1048+, 1456+, Ja 22, F 12-19, Mr 19, Ap 9-16, Je 4, Jl 9, 23, Ag 6-20, S 17, O 15, N 26 '25
When steel was young; how the warehouseman of seventy years ago helped to develop our domestic iron and steel industry. il Iron Age 115:1623-5 Je 4 '25
Where U.S. steel went in 1924. Iron Tr R 76: 568 F 26 '25
Which will rule steel industry, Pittsburgh or Chicago? A. O. Backert. il Iron Tr R 76:8-11 Ja 1 '25

See also Steel works—United States; *also* American rolling mill company; Bethlehem steel corporation; United States steel corporation

STEEL ingots
Beitrag zur kenntnis der gussblock- und gasblasenseigerung. O. von Keil and A. Wimmer. il Stahl & Eisen 45:835-7 My 28 '25; Abstract (Segregation in steel ingots). Engineer 140:sup125-6 Ag 28 '25
Clink detector for steel ingots and forgings. il diags Engineering 118:658 N 7 '24; Abstract. Génie Civil 86:519 My 23 '25
Defects in large forgings. J. F. Harper. il Mech Eng 47:400-2 sec 2 My '25; Same. Blast F & Steel Pl 13:278-81 Jl '25; Abstract. Iron Age 115:1834 Je 25 '25
Production of steel ingots from January, 1923, to November, 1924. Manuf Rec 86:79 D 18 '24
Steel ingot production 1922-23. Iron Tr R 73: 1591 D 13 '23
Steel ingot production, 1923-24. Iron Tr R 75: 329 Ag 14 '24
Steel ingot production for June and for the first half year of 1925. Iron Age 116:148 Jl 16 '25; Excerpt (Table). Iron Tr R 77:407 Ag 13 '25; Manuf Rec 88:91 Jl 16 '25
Steel ingot production, 1924-25. Iron Tr R 77:1008 O 15 '25
Surface cracks in rolling steel. H: D. Hibbard. Iron Age 115:1837+; 116:77+ Je 25, Jl 9 '25

See also Soaking pits; Steel castings; Steel metallurgy

Molds
Effect on steel of variations in rate of cooling in ingot molds. W: J. Priestley. Iron Age 113:639 F 28 '24
Hot top for ingot molds. J. H. Hruska. Blast F & Steel Pl 13:4 Ja '25
Iron and other metals for ingot molds. J. H. Hruska. Iron Age 115:341-2 Ja 29 '25
Life of large ingot molds. J. H. Hruska. Iron Age 116:345-6 Ag 6 '25

STEEL lifeboats. See Lifeboats, Steel

STEEL mergers
Bethlehem merger. Iron Tr R 73:1374, 1413 N 15-22 '23
Change in Trumbull steel management; merger with Otis steel co. halted. Iron Age 116: 630+ S 3 '25; Iron Tr R 77:594-5 S 3 '25

STEEL metallurgy
Basic slag as phosphate fertilizer. W. H. Waggamann and H. W. Easterwood. il Chem & Met Eng 29:873-6 N 12 '23
Beitrag zur kenntnis der beim giessen und beim erstarren des stahles entweichenden gase. P. Klinger. Stahl & Eisen 45:1640-2 S 24 '25
Beurteilung der metallurgischen prozesse beim Thomasverfahren nach den flammengasen. G. Bulle. diags Stahl & Eisen 44:9-11; Discussion. 11-14 Ja 3 '24
Chemical composition of tool steels. J. P. Gill and M. A. Frost. Am Mach 63:500-2 S 24 '25
Chemistry of steel making discussed at joint meeting of the Faraday society and the Iron and steel institute. Engineer 139:648-9 Je 12 '25; Engineering 119:739-40 Je 12 '25
Complex action of manganese and other so-called deoxidising agents used in the manufacture of steel. F. Giolitti. Iron & Steel Inst J 108:35-48; Discussion. 49-58, 297-9 no 2 '23
Correlates iron and steel making practice. J. E. Fletcher. Iron Tr R 77:967-70, 1030-2+, 1150-3 O 15-22, N 5 '25; Same. Foundry 53:878-81+, 929-33 N 1-15 '25; Excerpt. Iron Age 116:1602-3+ D 10 '25
Defective materials and processes. H. Brearley. il diag Engineer 140:sup 130-2 S 25 '25
Deriving Bessemer heat balance. H. Hermanns. diags Iron Tr R 73:1487-9 N 29 '23
Economic aspect of the utilization of permanent magnets in electrical apparatus. E. A. Watson. diags Inst E E J 63:822-34; Discussion. 834-8 Ag '25
French metallurgy (1889-1925) and the important part played by France in the past; some curious and unexplained facts connected with manganese steel. P Hadfield. il Soc Chem Ind J (Chem & Ind) 44:1029-44 O 23 '25; Excerpts. Iron Tr R 77:1333-4, 1398-1400, 1464-5, 1597-8 N 26-D 10, 24 '25; Engineer 140:385-6 O 9 '25
Der frisch- und raffinierstahlprozess in der mark. F: Springorum. il Stahl & Eisen 44: 841-6 Jl 17 '24
Fundamentalism in ferrous metallurgy. B. D. Saklatwalla. Ind & Eng Chem 17:96-8 Ja '25; Same. Iron Age 114:1620-1, 1672-3 D 18-25 '24; Same. Soc Chem Ind J (Chem & Ind) 44:524-7 My 22 '25
Die gewinnung und verwendung von sauerstoffangereicherter luft im hüttenbetriebe. A. Brüninghaus. diags Stahl & Eisen 45: 737-46; Discussion. 746-8 My 14 '25
Hornsey direct process. A. C. Blackall. Iron Age 113:1867 Je 26 '24

STEEL metallurgy—*Continued*
Die hüttentechnischen grundlagen der amerikanischen eisenindustrie. G. Bulle. diags map Stahl & Eisen 45:1057-67 Jl 2 '25
Importance of dissociation of chemical compounds in steel making; use of carbonless alloys. J. K. Smith. Chem & Met Eng 30: 49-50 Ja 14 '24
Improvements in automotive steels. W. G. Hildorf. il Iron Age 116:1378-80, 1447-50 N 19-26 '25
Iron and steel metallurgy in 1923. C. E. MacQuigg. bibliog Iron Age 113:77-8, 91-3 Ja 3 '24
Making, shaping and treating of steel. J. M. Camp and C. B. Francis. 4th ed. 1142p Carnegie steel co., Pitsburgh, Pa. '25
Making steel for ordnance use. J. B. Rhodes. Iron Tr R 74:1429-30+ My 29 '24; Same cond. Iron Age 113:1696-8 Je 5 '24
Making steel in the Black country, England. G: Hatton. Iron Tr R 75:101-2 Jl 10 '24
Making the steel for a thousand industries in America's mammoth plants. E: N. Vose. il Dun's Int R 45:41-4+ Ap '25
Manufacturing and heat treating alloy steel. M. A. Grossmann. il Iron Tr R 75:168-72, 215-18 Jl 17-24 '24
Metal mixer practice and basic steel making. T. P. Colclough. Chem Age (Lond) 10:sup 18-19 Mr 1 '24
Metallurgy is forcing mystery out of tool steel industry. J: D. Knox. il Iron Tr R 77:485-9 Ag 27 '25
Metallurgy of iron and steel; advances in technology in 1924. B. Stoughton. Eng & Min J 119:117-18 Ja 17 '25
Metallurgy of iron and steel; technical advances noted in 1923. B. Stoughton. Eng & Min J 117:112 Ja 19 '24
Neue beiträge zur kenntnis des tiegelzementstahls. H. Neuhauss. il Stahl & Eisen 44: 1664-8 D 18 '24
Permanent magnets in theory and practice. S. Evershed. diags Inst E E J 63:725-810 Ag '25; Abstracts. Elec R (Lond) 96:514-15 Mr 27 '25; Electrician 94:394-5+ Ap 3 '25; Discussion. Inst E E J 63:810-21 Ag '25; Elec R (Lond) 96:515 Mr 27 '25
Physical chemistry and steel. R. A. Hadfield. Iron Age 116:408-9 Ag 13 '25
Physical chemistry of steel-making. Chem Age (Lond) 13:sup1-2 Jl 4 '25
Plant laboratory and the testing of raw material. S. R. Robinson. Blast F & Steel Pl 13:336-7 Ag '25
Present day developments in iron and steel industry. A. C. Blackall. Blast F & Steel Pl 12:446-7 O '24
Principles of metallurgy of ferrous metals for mechanical engineers. L. Cammen. il bibliog Mech Eng 47:339-45, 479-84, 559-65, 637-42 My-Ag '25
Probable developments in the manufacture of iron and steel. F. Clements. Chem Age (Lond) 10:[Met sec]2-3 Ja 5 '24
Refrigeration in the manufacture of steel. H. J. Macintire. Power 59:621 Ap 15 '24
Sauerstoff im eisen. P. Oberhoffer. Stahl & Eisen 45:1379-84, pl 7 Ag 13 '25
Die stahlherstellungsverfahren unter dem besonderen gesichtspunkte der edelstahlerzeugung. W. Eilender. Stahl & Eisen 44: 1637-44 D 18 '24; Abstract. Engineer 139:sup 14-15 Ja 30 '25
Steel. J. B. C. Rouelle. 168p G. Bles, London '25
Steel in large masses. Engineer 137:659-60 Je 13 '24
Steel metallurgy of the British Empire. Iron Age 113:1791+ Je 19 '24
Studies direct reduction of ore; Hornsey process. il Iron Tr R 74:478, 1635-6 F 14, Je 19 '24
Die temperaturveränderungen des Thomasroheisens auf dem wege vom hochofen zur birne. E. Spetzler. diags Stahl & Eisen 43: 1315-22 O 18 '23
Theory and practice of steel refining. H. Styri. Iron & Steel Inst J 108:189-229; Discussion. 230-4 no 2 '23
Thomasstahl als baustoff für schienen höherer festigkeit. C. Canaris. Stahl & Eisen 45: 33-8; Discussion. 38-40 Ja 8 '25
Trend in metallurgy last year. C. E. MacQuigg. Iron Age 115:61-4 [bibliog. p. 64] Ja 1 '25
Ueber den einfluss des sauerstoffs auf die physikalischen und technischen eigenschaften des flusseisens. A. Wimmer. Stahl & Eisen 45:73-9, pl 1 Ja 15 '25
Vergleichende untersuchungen von basischem und saurem stahl mit hilfe der grosszahlforschung. F. Schmitz. Stahl & Eisen 43:1536-9 D 13 '23
Die verwendung von sauerstoff und sauerstoffreicher luft bei den frischverfahren. R. Schenck. Stahl & Eisen 45:1596-1602 S 17 '25

See also Annealing: Bessemer process; Furnaces, Steel making; Iron metallurgy; Molybdenum steel; Open hearth process; Rolling mills; Semi-steel; Steel—Decarburisation; Steel, Heat treatment of; Steel castings; Steel ingots; Steel works

Bibliography

Current literature on ferrous metallurgy. E. H. McClelland. Blast F & Steel Pl 13:114+, 164-5, 207+, 256, 293, 319, 364, 405-6, 442-3, 485 Mr-D '25

Electrometallurgy

Alloy steel from electric furnaces. F. E. Clark. Iron Age 116:1171 O 29 '25
Aluminum and titanium as deoxidizers. G: F. Comstock. il Iron Age 114:1477-9 D 4 '24
Casting high speed steel tools. J. M. Quinn. il Iron Tr R 74:226-30 Ja 17 '24; Same. Foundry 52:13-17 Ja 1 '24
Electric steel and its development—power requirements analyzed. R. Trautschold. Iron Age 114:577 S 4 '24
Electric steel for staybolt use. T: S. Wheelwright. Iron Age 116:1243 N 5 '25; Same. Ry R 77:815-16 N 28 '25
Electric steel in Brazil. il Iron Age 113:1863-4 Je 26 '24
Die fortschritte der elektrostahlerzeugung. F. Sommer. Stahl & Eisen 44:490-6, 526-30, 553-8; Discussion. 558-60 My 1-15 '24
High-speed steel for cast tools. J. M. Quinn. il Iron Age 112:1711-12+ D 27 '23
L'industrie électrothermique des fontes, fers, aciers et des ferro-alliages. Mathieu and Sutter. Génie Civil 87:287-91 O 3 '25
Making cast stainless steel. J. M. Quinn. il Foundry 53:515-18+ Jl 1 '25; Same. Iron Tr R 77:185-8+ Jl 23 '25
Manufacture of electric steel. F. T. Sisco. 304p McGraw-Hill '24
Physical chemistry in steel making. Iron Age 115:1833 Je 25 '25
Quality of electric and open-hearth steels. B. E. L. De Maré. Iron Age 113:379-81 Ja 31 '24
Refining metals electrically. L. J. Barton. il Foundry 52:427-32, 460-2, 506-9, 542-7, 606-10, 640-2+, 671-4, 726-9, 782-4, 813-16, 861-4, 897-9, 932-6+, 967-70+; 53:9-13, 70-2, 103-7, 150-4+, 189-92, 233-6, 272-4, 329-31, 359-60 Je 1 '24-My 1 '25
Steel direct from iron ore; new electric process developed in Sweden. H. Flodin. il Iron Age 116:1247-8 N 5 '25; Same. Blast F & Steel Pl 13:424-5 N '25; Same. Engineering 120: 432 O 2 '25; Abstracts. Elec R (Lond) 97: 638-9 O 16 '25; Engineer 140:263 S 11 '25; Discussion. Engineering 120:333-4 S 11 '25; Engineer 140:263 S 11 '25

See also Electric furnaces, Steel making

Patents

Effect of zirconium on high-sulphur steel. Chem & Met Eng 31:592-3 O 13 '24

STEEL pipes. See Pipes, Steel; Water pipes, Steel

STEEL poles. See Poles, Steel

STEEL racks. See Storage racks

STEEL reinforcing bars. See Steel, Reinforcing

STEEL research
Cooperative research work. W. J. Corbett. Iron Age 113:1795-6 Je 19 '24
Laboratory for Colonial steel co. G: F. Tegan. il Iron Age 115:1408-10 My 14 '25

STEEL sheets. See Sheet steel

STEEL square. See Carpenters' square

STEEL tanks. See Tanks, Steel; Water tanks, Steel

STEEL ties. See Railroad ties, Steel

STEEL tires. See Tires, Steel

STEEL tubes. See Tubes, Steel

STEEL turnings. See Steel waste

STEEL vests
Large uses of steel in small ways. il Iron Tr R 76:1007 Ap 16 '25

STEEL waste
Handling steel chips; portable compressed air hoists. W. H. Wineman. il Iron Age 115:1714 Je 11 '25
Scrap problem in the small plant. R: C. Daniels. il Factory 34:414-16+ Mr '25
Simple method that reduced our waste of materials. C. C. Hermann. Factory 35:206-7 Ag '25
Using briquetted chips as furnace scrap. il diags Iron Age 114:1537-8 D 11 '24

STEEL water towers. See Water towers, Steel

STEEL wheels. See Wheels, Steel

STEEL wire. See Wire, Steel

STEEL wool
Large uses of steel in small ways; steel wool. il Iron Tr R 74:356 Ja 31 '24

STEEL workers
Cost of fatigue in steel plants. H. Porter. il Blast F & Steel Pl 13:73-5 F '25
Customary working time in the iron and steel industry, 1924. Monthly Labor R 19: 544-7 S '24
Employes' representation in steel works. B. M. Selekman. 293p Russell Sage foundation, 130 E. 22d st., New York '24; Abstract. Monthly Labor R 20:762-4 Ap '25
Employment and average earnings in the English iron and steel trades. Monthly Labor R 20:546-7 Mr '25
Fatigue in the iron and steel trades. Engineer 138:187-8, 377 Ag 15, O 3 '24
High wages offset time loss. Iron Tr R 77: 73-4 Jl 9 '25
How to succeed with the eight-hour day. K. Harrison. Iron Age 112:1321-2 N 15 '23
Increasing probability of wage reduction. Iron Age 113:1765-6 Je 12 '24
Japan's iron and steel industry. E. Kothny. Iron Age 112:1658-60 D 20 '23
Labor; employment—earnings—efficiency. L: H. Haney. Iron Age 115:354+, 700+, 979-80+ Ja 29, Mr 5, Ap 2 '25
Labor policy of the United States steel corporation. C: A. Gulick. (Columbia univ. Studies in history, economics and public law) 200p [bibliog. p. 195-7] Longmans '24
Labor takes smaller share of iron and steel mill incomes. L: H. Haney. Iron Age 116: 694+ S 10 '25
Long hours in steel industry reduced. Iron Age 113:34-41 Ja 3 '24
Productivity of iron and steel labor shows gain as earnings increase. L: H. Haney. Iron Age 116:968+ O 8 '25
Rapid progress in shortening hours. G: Smart. Iron Age 114:427-32, 481-3 Ag 21 '24
Story of steel; welfare work. il Sci Am 132: 388-9 Je '25
Wages and hours in manufacturing; analysis of the iron and steel and the foundry and machine shop groups from July, 1914, to January, 1924. Iron Age 113:1356-7 My 8 '24; Iron Tr R 74:1167-9 My 1 '24
Wages and hours in the bar, blooming, plate, puddling, and standard rail mill departments of the iron and steel industry, 1924. Monthly Labor R 19:365-82 Ag '24
Wages and hours of labor in the iron and steel industry, 1907-1922. U S Bur Labor Statistics Bul 353:1-174 '24
Wages and hours of labor in the iron and steel industry: 1907-1924. U S Bur Labor Statistics Bul 381:1-163 '25; Abstract. Iron Age 115:1855-6 Je 25 '25
Wages and hours of labor in the sheet-mill department of the iron and steel industry, 1924. Monthly Labor R 18:1267-72 Je '24
Wirtschaftliche auswirkung der achtstundenschicht in hüttenwerken. E. Hofmann. Stahl & Eisen 44:1101-5 S 11 '24
Zur frage der arbeitszeit für die feuerarbeiter der hüttenwerke. M. Schellewald. Stahl & Eisen 44:1446-55 N 13 '24

See also Iron workers

STEEL works
Comparison of steel works to-day and yesterday. W: Ellis. Engineer 137:513+ My 9 '24
Joins ranks of strip producers; the Otis steel co., Cleveland. J: D. Knox. il plan Iron Tr R 75:1165-71 O 30 '24
New producer in field of cold-finished steels; plant of Anchor drawn steel co., Latrobe, Pa. il Iron Age 114:373-4 Ag 14 '24
Operates new cold drawing plant; Anchor drawn steel co., Latrobe, Pa. J: D. Knox. il Iron Tr R 75:423-7 Ag 14 '24
Planning, erection and operation of modern open hearth steel works. H. Hermanns. 307p E. Benn, ltd., London '24

See also Blast furnaces; Foundries; Rolling mills; Steel workers; *also* Gary tube company; Lukens steel company; Pettibone Mulliken company

Accidents

Accident experience of the iron and steel industry. L. W. Chaney. Monthly Labor R 19: 1139-45 N '24

See also Rolling mills—Safety devices and measures

Electric equipment

Electric plant for iron and steel works. R. Orsettich. Electrician 91:598-9 N 30 '23
Electrical steel-mill development in 1923. Iron Age 112:1662-4 D 20 '23
Electricity's progress in the iron and steel industry; report of the A.I.E.E. committee. Am Inst E E J 44:961-3 S '25
Die elektrotechnik im eisenhüttenwerk. D. W. Geyer. Zeit Ver Deutsch Ing 69:175-8 F 14 '25
Maintenance practice in steel mills; discussion. A. C. Cummins and others. il Ind Eng 82:464-74, 551-2 O-N '24
Mill-type magnetic-time control system. J. D. Wright. il diag Gen Elec R 28:243-7 Ap '25
New trends and recent progress in solving problems of steel mill operation. A. J. Whitcomb. il Ind Eng 83:406-14+ S '25
Plant Two power house of Inland steel company. F. J. Crolius. il Blast F & Steel Pl 12:142-7 Mr '24
Report of A.I.E.E. iron and steel industry committee. Am Inst E E J 43:967-71, 1033 O-N '24
What is a reasonable stock of renewal parts? A. G. Ahrens. Elec J 22:432-4 S '25

. Employees

See Steel workers

Equipment

Air hoist saves floor space in steel chip disposal. W. H. Wineman. il Ind Eng 83:347 Jl '25
Exhibit of steel mill equipment. Iron Age 116: 903+ O 1 '25
Labor saving machinery installed and needed. G: H. Charls. Iron Age 113:1523 My 22 '24
Lubrication in the steel industry. il Blast F & Steel Pl 12:377-80 Ag '24
Die maschinellen einrichtungen der eisenhüttenwerke. H. Hoff. il diags Zeit Ver Deutsch Ing 69:1013-22, 1182-8, 1249-52 Ag 1, S 12, 26 '25
Mill combination increases yield; United alloy steel corp., Canton, O. J: D. Knox. il diag plan Iron Tr R 75:1493-6+ D 4 '24

STEEL works—Equipment—*Continued*
Refractory materials for steelworks. diags Chem Age (Lond) 10:sup10-12 F 2 '24
Transportmittel und transportwege der rohstoffe des Rührorter hochofenwerkes der Phoenix-Akt.-Ges. H. Leiber. il diags plan Stahl & Eisen 45:182-9 F 5 '25

Layout

Arrangement of an ideal steelworks; with layout. Chem Age (Lond) 11:sup34-5 N 1 '24
Detroit's new automobile sheet plant. il plan Iron Age 113:50-3 Ja 3 '24

Lighting

Artificial illumination in the iron and steel industry. W. H. Rademacher. bibliog il Illum Eng Soc 18:824-41 N '23; Abstract. Am Inst E E J 44:81-2 Ja '25; Discussion. Illum Eng Soc 18:841-5 N '23

Management

Arbeitsvorbereitung in der edelstahl-industrie. H. Steinhaus. Stahl & Eisen 44:1743-5 D 18 '24
Dawn of a new era; the British Empire steel corporation, ltd. D. J. Kelley. il Blast F & Steel Pl 13:249-51 Je '25
Economical use of fuel in steel plants. H. E. Seibert. Iron Age 112:1651-2 D 20 '23
Industrial photography applied to iron and steel. J: D. Knox. il Iron Tr R 74:221-5 Ja 17 '24
Regaining the losses incurred through poor management. J. M. Kinney. Factory 32:340+ Mr '24

Power

Automatic substations in steel mills. G. P. Wilson. il diags Elec J 22:428-31 S '25
Automatic substations in steel mills. G. P. Wilson. diags W Soc E J 30:275-82 Je '25
Electricity simplifies operation of a modern steel mill. C. H. Tallant. il J Elec 54:316-21 My 1 '25
Electricity's contribution to the steel industry. K. A. Pauly. diags Am Inst E E J 43: 831-9 S '24
Gas engine in the steel industry. A. C. Danks. Mech Eng 46:450-60 Ag '24; Abstract. Power 59:946-8 Je 10 '24; Discussion. Mech Eng 46:460 Ag '24
Generation and utilization of steam in the iron and steel industry. J: A. Hunter. diags Mech Eng 46:325-8+ Je '24; Same cond. Power 59:921-2 Je 3 '24; Discussion. Mech Eng 46:462+ Ag '24
Inland steel electrically operated. F. J. Crolius. il plan Blast F & Steel Pl 12:90-3, 142-7 F-Mr '24
Interchange of power between steel mills and central stations. S. S. Wales. Elec J 22:411 S '25
New gas-engine plant of the Illinois steel company. il diags Power 59:552-7 Ap 8 '24
Power and fuel consumption of the iron and steel industries of Pittsburgh. S. B. Ely and W. F. Rittman. il map Blast F & Steel Pl 13:449-55 N '25
Power generation in modern steel works. G. R. McDermott. Power 59:267-8 F 12 '24; Abstract. Mech Eng 46:501 Ag '24
Power needs in America expand. B. R. Shover. Iron Tr R 75:219-22 Jl 24 '24; Excerpts. Blast F & Steel Pl 13:49-53 Ja '25; Abstract. Elec W 84:681-2 S 27 '24
Power organization in the steel industry. B. Bannister and F. M. Van Deventer. Mech Eng 46:248-50 My '24; Discussion. 46:460-2 Ag '24
Power service for the steel industry in the Pittsburgh district. C: R. Riker. Elec J 21:442-5 S '24
Ruths steam accumulator; application to sugar refinery and steel works analyzed. A. J. T. Taylor and F. A. Wettstein. il diags Mech Eng 47:622-3 Ag '25
Steel company builds new power plant; Columbia steel corp., Provo. il diags plans Power Pl Eng 28:1034-41 O 15 '24
Steel industry is now almost completely electrified and many new installations are planned. il Elec W 85:550 Mr 14 '25
Study power needs of steel industry. Iron Tr R 74:730-1 Mr 13 '24
Trend of steel mill rehabilitation. W. Sykes. Elec J 22:413-14 S '25

See also Rolling mills—Power

Safety devices and measures

Accident curves sag when Donner workers take hold. charts Nat Safety N 11:13-15 Ja '25
Accident prevention in the steel industry. J. E. Culliney. Safety Eng 50:183-5 O '25
Fire protection in foundries and steel plants. J. M. Woltz. Safety Eng 46:194-7 O '23; Same. Foundry 52:68-70 Ja 15 '24; Same cond. Iron Age 112:1255-6 N 8 '23; Same cond. Iron Tr R 73:1477-9 N 29 '23
How overtime safety has paid Interstate steel. C. T. Fish. il Nat Safety N 10:15-17 My '24
How the electrical engineer and the safety engineer can be mutually helpful. J: A. Oartel. Blast F & Steel Pl 13:400-2 O '25
How they tried for one month and made it three; Joliet works of Illinois steel co. C. T. Fish. il Nat Safety N 9:11-13 Ap '24
Operating the plant railroad safely. J. A. Hughes. Iron Tr R 77:1028-9 O 22 '25
Putting a premium on safety; fewer accidents at the American steel & wire co. plants. J: Nelson. Iron Age 116:269-71 Jl 30 '25
Putting over a safety drive; Carnegie steel co., Duquesne, Pa. il Blast F & Steel Pl 13:446-8 N '25
Real safety record of Edgar Thomson works. Blast F & Steel Pl 12:69-71 Ja '24
Safety contest between the American rolling mill company, Middletown, Ohio, and the mills of the Andrews interests. il Nat Safety N 10:28-9+ Jl '24
Safety rails protect open hearth workers. Nat Safety N 11:45 Je '25
Steel workers make new Armco safety records. il Nat Safety N 10:27-8 Jl '24
Story of steel. il Sci Am 132:316-17 My '25
They made a record in 1921 and haven't broken it yet; Gary works of Illinois steel co. C. T. Fish. il Nat Safety N 9:29-30 Je '24
They're watching safety constantly at Portsmouth works. C. T. Fish. il Nat Safety N 10:19-22 N '24
Twenty years without a fatal; Truscon steel co. A. J. Lynch. il Nat Safety N 10:51-2 O '24
Unfallverhütung und zusammenarbeit in der amerikanischen hüttenindustrie. H. Koppenberg. il Stahl & Eisen 45:1071-5 Jl 2 '25
What Bethlehem employes can gain through avoiding accidents. Blast F & Steel Pl 12: 360-1 Ag '24

Austria

Alpine-Montan, Austria's steel producer. B. F. Castle. il Iron Age 115:404-7 F 5 '25

Czechoslovakia

Czechoslovakia's great steel works; Witkowitz mines, steel & ironworks corporation. G. L. Carden. il Iron Age 112:1516-20+ D 6 '23

France

How world famous steel works wins loyalty of workers; Schneider & Cie. O. D. Foster. il Forbes 14:661-4+ S 1 '24

Germany

Activities of former armament works; Spandau and Haselhorst works. F. A. Brackmann. il Iron Age 113:1151-3 Ap 17 '24
Kalkförderanlage des Thomaswerkes der rheinischen stahlwerke in Duisburg-Meiderich. il Stahl & Eisen 45:547-8 Ap 9 '25
Sixteen concerns have 79 per cent of German steel capacity. Iron Age 115:426 F 5 '25

STEEL works—*Continued*

Great Britain

Messrs Brown Bayley's steel works. il diags plan Engineering 120:192-6, 256-8, 343-5, 374-5, 376, 438-41, 450, 567-70, 619-21, 654, 655, 702-3, 759-62, 791-4, pl 14, 16, 27, 47, 48, 52-4 Ag 14, 28, S 18-25, O 9, N 6-20, D 4, 18-25 '25

Works of Sir William Arrol and co. (Swansea), limited. il diags plan Engineering 119:561-4, pl 35-6 My 8 '25

Illinois

Chicago points with pride to the Inland steel company. F. L. Crolius. il Blast F & Steel Pl 12:18-24, 90-3, 142-7 Ja-Mr '24

Corporation plans alloy mill. Iron Tr R 77: 599 S 3 '25

Wisconsin steel works, South Chicago, Ill., adds open-hearth. G. L. Lacher. il plan Iron Age 113:1421-5 My 15 '24

Italy

Emergency plant completed after war. H. C. MacLean. Iron Age 115:485-6 F 12 '25

Visits and excursions at the Milan meeting. Iron & Steel Inst J 108:329-64 no 2 '23

Die werke der gesellschaft Cogne-Girod in Aosta. H. Hermanns and S. Trinchero. il diag Stahl & Eisen 45:891-2 Je 4 '25

Siberia

Proposed Siberian steel plant. A. Pearson, jr. map plan Iron Age 116:339-41 Ag 6 '25

United States

Bethlehem's twentieth birthday. il Blast F & Steel Pl 13:16-19 Ja '25; Excerpts. Bankers M 110:88-9 Ja '25

Increase mill capacity in 1923. J: D. Knox. Iron Tr R 74:50-3 Ja 3 '24

New capacity in iron and steel plants. Iron Age 115:81-8 Ja 1 '25

New capacity in iron and steel works. Iron Age 113:109-14+ Ja 3 '24

Pacific coast fabricating plant. il Iron Age 116:1032-3 O 15 '25

Pacific coast industries are forging ahead. D. Partridge. il Iron Tr R 76:57-9 Ja 1 '25

Steel industry expands on Coast. D. Partridge. il map Iron Tr R 74:40-4 Ja 3 '24

Trend of expansion is westward. J: D. Knox. map Iron Tr R 76:60-3+ Ja 1 '25

STEERING

Rudder manipulation for efficient ship operation. E. A. Sperry. il Marine Eng 29:31-5 Ja '24

STEERING gear

Largest steering gear ever built tested at builders' shops. il Marine Eng 30:528 S '25

New field of investigation—automatic gyrosteering. Marine Eng 30:584-6 O '25

Powerful steering gear for airplane carrier. il Marine R 55:333 S '25

Ship form and steering. A. W. Johns. diags Engineer 136:551-2, 576-7 N 23-30 '23

See also Automobiles—Steering gear; Rudders

STEINMETZ, Charles Proteus, 1865-1923

Appreciation. M. P. Rice. Gen Elec R 26:800-1 D '23

Charles Proteus Steinmetz; a biography. J: W. Hammond. 489p Century co. '24

Charles Proteus Steinmetz; his scientific attainments and their meaning to the world. E. W. Rice, jr. por (front) Gen Elec R 26: 796-9 D '23; Same. N E L A Bul 10:719-22 D '23; Same abr. Chem Age 31:479-81 N '23; Same cond. Ind Eng 81:596+ D '23; Discussion. A. E. Kennelly. Gen Elec R 27: 132-3 F '24

The man and his work; excerpts from his own story. Can Chem & Met 7:308-10 D '23

Sketch. por J Elec 51:321 N 1 '23; Power Pl Eng 27:1161 N 15 '23; Ind & Eng Chem 15: 1266 D '23; Am Exporter 94:71+ Ja '24

Sketch. E. W. Rice, jr. por Illum Eng Soc 18:772-4 O '23

Steinmetz and his discoverer. J: T. Broderick. 23p Robson & Adee, Schenectady, N.Y. '24

Steinmetz in Fullerton hall. T. G. Price. Gen Elec R 27:648-9 O '24; Same. W Soc E J 29: [current news] 227-9 D '24

Steinmetz memorial scholarships. C. M. Ripley. Gen Elec R 27:820-1 D '24

Bibliography

Charles P. Steinmetz. A. A. Slobod. Special Lib 16:205 Je '25

STEINWAY building, New York

Steinway building, New York city. il Arch & Bldg 57:69-71, pl 170-4 Ag '25

Steinway building, New York. W. L. Hopkins. il plans Arch Rec 58:201-10 S '25

STELLITE

Characteristics of stellite; reference-book sheet. diags Am Mach 63:671, 705 O 22-29 '25

Manufacture and uses of stellite. W. H. Losee. Soc Chem Ind J 44:451-2 S 4 '25

Stellit und stellitähnliche legierungen; abstract. E. H. Schulz and F. Lange. Stahl & Eisen 45:945-7 Je 11 '25

Stellite as a material for gages. il Mach 31:633-4 Ap '25

STENCILS and stenciling

Sign painting with silk stencils, Ohio road department. H. B. Neal. il Eng N 94:608-10 Ap 9 '25

STENOGRAPHERS

Proficiency tests for stenographers. E. J. Benge. Management & Adm 8:615-16 D '24

STENOGRAPHY. See Shorthand

STEPHENSON, George

Centenary of the locomotive. V. Raven. Engineer 140:40-1 Jl 10 '25; Same. Engineering 120:51-2 Jl 10 '25

STEREOCHEMISTRY

Configurational relationships of the sugars, hydroxy acids, amino acids and halogen acids. P. A. Levene. diags Chem R 2:179-216 [bibliog. p. 215-16] Jl '25

Dissymmetry and asymmetry of molecular configuration. F. G. Mann and W. J. Pope. Soc Chem Ind (Chem & Ind) 44:833-5 Ag 21 '25

Dynamic hypothesis of chemical combination. G. T. Morgan. Soc Chem Ind J (Chem & Ind) 43:1071-3 O 31 '24

See also Atoms: Chemistry, Physical and theoretical; Cyclic compounds; Isomerism; Molecular rearrangements; Polarization (light); Steric hindrance

STEREOCOMPARATORS

Equipment used for aerial surveying. Mech Eng 47:303 Ap '25

STEREOPHOTOGRAPHIC surveying

Predhumeau stereotopometer. il diags Engineering 120:531-3 O 30 '25

Stereo-photo-grammetric surveying. B. J. Woodruff and D. H. Nelles. il maps Engineer 140:454-5 O 30 '25

Stereophoto surveying from the air; Brock process. il diags map Eng N 94:604-8 Ap 9 '25

STEREOTOPOMETER

Predhumeau stereotopometer. il diags Engineering 120:531-3 O 30 '25

STEREOTYPERS

Stereotypers, Milwaukee; labor agreement. Monthly Labor R 21:107-8 Jl '25

STEREOTYPING

Drying stereotyping matrices with waste paper. F. Milne. Inland Ptr 73:400 Je '24

STERIC hindrance

Steric hindrance in the migration of acyl from nitrogen to oxygen. L. C: Raiford and C: M. Woolfolk. Am Chem Soc J 46: 2246-55 O '24

Steric relations in the acylation of aromatic amines and aminophenols. L. C: Raiford, R. Taft and H. P. Lankelma. Am Chem Soc J 46:2051-7 S '24

STERILIZATION
Dry sterilization of mattresses. T: Telfer. il Am Gas J 122:444+ My 23 '25
Sterilizers. E. W. Riesbeck. il diags Dom Eng 106:27-32 Mr 22 '24
Sterilizing barber shop equipment. E. S. James. diag Dom Eng 112:29-30 Ag 8 '25
See also Heat as a disinfectant

STERILIZERS, Electric
Electric sterilizer for the average-sized dairy. il J Elec 54:323 My 1 '25

STERLING, Illinois
Water supply
Typhoid fever and cross-connections in Illinois. il diag Eng N 94:526-7 Mr 26 '25; Same. Sanitary & Heat Eng 103:291-2 My 1 '25

STEROLS
Relation of sterols to vitamin A. J. C. Drummond, O. Rosenheim and K. H. Coward. Soc Chem Ind J 44:123-4 Mr 13 '25
Separation of unsaturated from saturated sterols. R. J. Anderson and F. P. Nabenhauer. Am Chem Soc J 46:1957-60 Ag '24

STETTINIUS, Edward R., 1865-1925
Sketch. G. Swope. por Gen Elec R 28:739 O '25

STEVEDORES. See Longshoremen

STEVENS, John Frank
John Frank Stevens receives John Fritz medal. por Power 61:515 Mr 31 '25; Iron Tr R 76:982-3 Ap 9 '25; Mech Eng 47:383 My '25; Eng & Contr (G C) 64:127-8 Jl 15 '25
Stevens monument dedicated by historical expedition. E: F. Flynn. por Eng N 95:428-30 S 10 '25

STIBINIC acid
o-amino and *o*-acetaminophenylstibinic acids. A. D. Macallum. Soc Chem Ind J 42:468-71 D 7 '23

STIFFENER angles. See Girders

STILL, Frederick R.
Sketch. por Heat & Ven 21:67+ My '24

STILL engine
Features of airless injection oil engines; Scott-Still engine. H. F. Birnie and R. C. Baumann. il diags Power Pl Eng 28:1143-7 N 15 '24
Large Still type engine for twin-screw motorship Dolius. il diags Marine R 54:83-5+ Mr '24
M. S. Dolius, first ship fitted with Still engines. il diags Marine Eng 29:338-40 Je '24
Les moteurs Still, à combustion interne et à vapeur, du cargo-boat Dolius. il diags Génie Civil 84:101-5 F 2 '24
Scott-Still engines for M. S. Dolius prove economical. il diags plan Marine Eng 29:35-8 Ja '24
Scott-Still marine oil engine. il diags Engineer 136:556-8, 592 N 23-30 '23; Engineering 116:639-40, pl 37-9 N 23 '23
Second report of the Marine oil engine trials committee. Engineering 119:397-402, 434-6 Mr 27-Ap 3 '25; Engineer 139:346-9 Mr 27 '25; Mech Eng 47:504 Je '25; Discussion. Engineering 119:391-2, 445-6, 485-7 Mr 27, Ap 10-17 '25; Engineer 139:403 Ap 10 '25

STILLMAN, John Maxson
Sketch. S. W. Young. por Ind & Eng Chem 15:1283 D '23

STILLS. See Distillation apparatus

STINNES, Hugo, 1870-1924
Hugo Stinnes. Comm & Fin 13:744 Ap 16 '24

STINNES interests, Germany
Credit extended by German banks to Stinnes group to prevent crash imminent with conflict of views of members of family. Comm & Fin Chr 120:3009-10 Je 13 '25
Receiver for Stinnes. Comm & Fin Chr 121: 931 Ag 22 '25

STIRRERS
Easily improvised mechanical stirrer. C. O. Harvey. il Soc Chem Ind J (Chem & Ind) 44:815 Ag 14 '25
Gas-tight stirrer. diag Ind & Eng Chem 16: 319 Mr '24
Laboratory stirrer. C. E. Waters. diag Ind & Eng Chem 16:493 My '24
Measurement of stirrer performance. J. C. Wood, E. R. Whittemore and W. L. Badger. diags Am Inst Chem Eng Trans v 14:435-44; Discussion. 444-8 '21-'22
See also Agitators

STOCK cars
Representative examples of stock cars built in 1924. il Ry R 76:52-3 Ja 3 '25

STOCK dividends. See Dividends

STOCK exchange
Address to the guests of the New York stock exchange. Comm & Fin Chr 120:2757-8 My 30 '25
Bankers' gazette. Published in weekly numbers of Commercial and financial chronicle
Machinery of the odd lot market—differing functions of dealers and brokers. S. M. Murphy. Forbes 13:784-5 Mr 29 '24
Mind and machinery of the market. T. H. Price. Comm & Fin 14:241-2 F 4 '25
Stock exchange. G. G. Munn. Bankers M 110: 325+ F '25
Stock exchange and the banker. S. L. Cromwell. Bankers M 108:49-54 Ja '24
Stock exchange and the public. Economist 99:645-6 O 25 '24
Stock exchange, its constitution and the effects of the great war. W: H. Whyte. 103p Pitman '24
Stock exchange losing the race with securities. E: A. Bradford. Annalist 23:684+ Je 16 '24
Stock market investor. H. J. Aldrich. 143p Four seas co., Boston '23
Transactions on out-of-town markets—1923. Annalist 23:84-5 Ja 7 '24
Transactions on out-of-town markets—1924. Annalist 25:77+ Ja 5 '25
What is happening to stock speculation? E. Dakin. Comm & Fin 13:899-900, 947-9, 996-8, 1119-21, 1215-17, 2147-9, 2368-71; 14:201-3 My 7-21, Je 11, 25, N 5, D 10 '24, Ja 28 '25
See also Brokers; Investments; Speculation; Stocks; *also* Boston stock exchange; Chicago stock exchange; Cincinnati stock exchange; Cleveland stock exchange; Detroit stock exchange; Los Angeles stock exchange; Montreal stock exchange; New Orleans stock exchange; New York curb market; New York stock exchange; San Francisco stock and bond exchange; St Louis stock exchange

Taxation
Stock exchanges, produce exchanges, &c., subject to capital stock and income tax. Comm & Fin Chr 121:939 Ag 22 '25

STOCK-keeping records. See Inventories; Stores systems

STOCK ticker machine
Stock ticker—as it was and is. J. E: Meeker. il Burroughs Clearing House 8:19-22+ Ap '24

STOCK yards
Review of Chicago stock yards history. J. G. Knapp. charts diag map Univ J of Business 2:331-46 Je '24

STOCKBROKERS. See Brokers

STOCKHOLDERS
Compilation by R. S. Binkerd shows number of stockholders in major industries doubled in last seven years. Comm & Fin Chr 120: 1699-1700 Ap 4 '25; Same. Iron Age 115:899-90 Mr 26 '25
Corporation stockholders, 1920-1924. Survey of Cur Business 30:192 F '24 [continued quarterly]
How do you treat your small stockholders? Ptr Ink 130:25-6+ F 5 '25
Ownership of wealth. H. T. Warshow. Index p 6-7 Ja '25
Rights of preferred stockholders. Index p 12 N '24
Securities of major industries widely held. Bradstreet's 53:194-5 Mr 21 '25

STOCKHOLDERS—*Continued*
Stockholders as a good-will asset. F. Snow. Annalist 25:648 My 11 '25
Who owns America. E: A. Woods. Nation's Business 12:82-3+ My '24
Who owns our corporations? Nation's Business 13:46+ S '25
Who owns the corporations? Nat City Bank p 10-14 Jl '25; Same. Econ W n s 30:42-5 Jl 11 '25

See also Advertising—Stockholders, Appeal to; Corporation law; Employees as stockholders

STOCKS
A B C of stocks and shares. H. Parkinson. 96p Longmans '25
Attractive securities on the London market. Moody's Inv Serv 17:371 N 12 '25
Auction sales of securities not actually dealt in at the Stock exchange. Published in weekly numbers of Commercial and financial chronicle
Bullish enthusiasm in the stock market. Bradstreet's 52:733 N 15 '24
Buying and selling stocks for profit. E. B. Gowin. 50p Putnam '23
Capital-stock stamp tax hallucinations. E. M. Meyer. J Account 38:275-8 O '24
Case for no-par stocks. G: C. Cox. Annalist 23:392-3 Mr 31 '24
Cheaper groups. Moody's Inv Serv 17:362 N 5 '25
Choice of stocks. C. Collver. 54p Putnam '23
Common stocks as long term investments. E. L. Smith. 129p Macmillan '24
Continued rise of stocks and bonds likely. R. Estcourt. Annalist 24:704-5 D 29 '24
Dividends. Published in weekly numbers of Commercial and financial chronicle.
Does the upward rush of stocks mean better business? Annalist 24:509-10 N 17 '24
Economic position of the stock market. Moody's Inv Serv 16:329-32 Ag 28 '24
Economics of high stock markets. Moody's Inv Serv 17:301-4 S 10 '25
Fashions in stock speculation. T. H. Price. Comm & Fin 14:1085 Je 3 '25
Finance in 1924. Bradstreet's 53:21 Ja 10 '25
Forbes guide for investors. Forbes 13:663; 14: 573 Mr 1, Ag 1 '24
Forecasting security prices. Am Statis Assn J 20:244-9 Je '25
Four equity stocks briefly discussed; Atlantic refining, American tobacco, American locomotive and Texas companies. Moody's Inv Serv 16:147 Ap 10 '24
From trade to finance. Moody's Inv Serv 17: 370 N 12 '25
General survey of 1923 in the financial district. Annalist 23:58-9+ Ja 7 '24
General survey of 1924 in the financial district. Annalist 25:52-3 Ja 5 '25
Group of investment preferred stocks. R. V. Sykes. Forbes 14:742-3 S 15 '24
Group of unlisted preferred stocks for liberal income. R. V. Sykes. Forbes 14:48-9 Ap 12 '24
Handling of stock investments. Moody's Inv Serv 17:345-6 O 22 '25
High peaks in the stock market. Moody's Inv Serv 16:457-60; 17:273 D 18 '24, Ag 20 '25
High-priced, low-yield stocks. Moody's Inv Serv 17:291 S 3 '25
Income basis of stock market. Moody's Inv Serv 17:70, 249-50 F 26, Jl 30 '25
Industrial and miscellaneous stocks and bonds in United States and territories, Canada, Mexico and Cuba; Railway and industrial compendium [formerly Railway, industrial and public utility section]. Comm & Fin Chr 119:131-224 sec 2 N 29 '24 [issued twice a year on the last Saturday in May and November]
Insurance stocks as investments. A. Motelle. Annalist 26:215, 247 Ag 21-28 '25
Interest rates and stock markets. C: O. Hardy. Annalist 26:371-2 S 25 '25
Investment preferred and common stocks. Moody's Inv Serv 17:7-8 Ja 2 '25
Investment stocks representing fairly good values. Moody's Inv Serv 17:95 Mr 19 '25
Is the bull market over? P. S. Krecker. Comm & Fin 14:331-2 F 18 '25
New stockholders for old companies. F. E. Tyng, jr. Comm & Fin 13:2102-4 O 29 '24
New York stock exchange transactions—1923. Annalist 23:70-5 Ja 7 '24
New York stock exchange transactions—1924. Annalist 25:62-7 Ja 5 '25
No par value stock. F. H. Hurdman. J Account 37:91-100 F '24
Opportunities for investors; unlisted industrial preferred stocks. R. V. Sykes. Forbes 13:722-3 Mr 15 '24
Outsider a big factor in the stock market boom. R. A. Lewis, jr. il Am Bankers Assn J 17:381-2+ D '24
Policy of keeping strong and its application to the stock market. P. S. Krecher. Comm & Fin 14:1862-3 S 23 '25
Preferred stock investments. Moody's Inv Serv 17:186, 188, 267, 307 Je 4, Ag 13, S 17 '25
Preferred stocks with an accumulation of unpaid dividends attractive for long-pull. R. V. Sykes. Forbes 15:424-5 Ja 1 '25
Profitable investments among preferred stocks of high earning power. E: L. Barnes. Forbes 16:702-3+ Ag 15 '25
Range of Annalist averages on New York stock exchange; weekly moves of 25 rails and 25 industrials and combined closing average. Published in weekly numbers of Annalist
Redeemable preferred stocks. Moody's Inv Serv 17:219 Jl 2 '25
Science of investing. G: C. Cox. Annalist 22: 693-4+ N 26 '23
Seven common stocks. E: L. Barnes. Forbes 16:634-5+ Ag 1 '25
Shares in joint stock land banks yield well and offer sound investments. R. V. Sykes. Forbes 15:648-9 F 15 '25
Some questions on no-par-value stock. F: H. Hurdman. J Account 39:9-18 Ja '25
Stock and bond transactions on New York stock exchange; highest and lowest prices; total sales. Published in weekly numbers of Annalist
Stock exchange in 1924. Economist 100:48-9 Ja 10 '25
Stock market as a business barometer. A. H. Temple. Comm & Fin 14:2157-8 N 4 '25
Stock market outlook. J. G. Donley, jr. Published in bi-weekly numbers of Forbes
Stock market outlook; brief review of speculative movements of last ten years. J. G. Donley. Forbes 15:577 F 1 '25
Stock recommendations. Moody's Inv Serv 17: 236 Jl 16 '25
Stocks and bonds. G. G. Munn. Bankers M 109:951+ N '24
Stocks and bonds, 1921-1924; index numbers and numerical data. Survey of Cur Business 30:186-7 F '24 [continued quarterly]
Suggestions regarding investment policy. Moody's Inv Serv 16:423 N 20 '24
Taxation of no-par stock. H. T. Warshow. J Account 39:19-23 Ja '25
Two stock lists. Moody's Inv Serv 16:328 Ag 28 '24
We find out why investors sell our stock. F. L. Dame. Ptr Ink 132:25-6+ Jl 9 '25
What lies ahead for the stock market? Annalist 24:542 N 24 '24
Where stocks change actual owners. J. H. Collins. il Burroughs Clearing House 9:5-7+ Ap '25
Why I'm through with widow's investments; advantages of common stocks. Comm & Fin 14:949-51 My 13 '25
Will the racing stock market become a juggernaut? H. P. Willis. Annalist 24:541-2 N 24 '24
Yields of stocks. Moody's Inv Serv 16:461-2 D 26 '24
Yields of stocks by groups. Moody's Inv Serv 17:251 Jl 30 '25

STOCKS—*Continued*
You and your investments; advantages of common stocks. W. H. Russell. Comm & Fin 14:1312-13 Jl 8 '25

See also Bonds; Corporations; Dividends; Employees as stockholders; Investments; Securities; Stock exchange; *also* Boston stock exchange; New York curb market; New York stock exchange

Prices

Course of prices in 1924 at the New York stock exchange. Comm & Fin Chr 120:173-80 Ja 10 '25
Course of prices of railroad and miscellaneous stocks for the year 1923, at the New York stock exchange. Comm & Fin Chr 118:49-55 Ja 5 '24
Currency depreciation and stock prices. Moody's Inv Serv 16:249-52 Je 19 '24
Movement of French stock prices. Moody's Inv Serv 16:251 Je 19 '24
Quoted prices of active stocks on the New York stock exchange. Published in weekly numbers of Economic world

STOKERS, Mechanical

Advance non-sifting stoker. il diag Power 62:702 N 3 '25; Power Pl Eng 29:1028-9 O 1 '25
Chain grate stokers for small units. il Power Pl Eng 29:614-15 Je 1 '25
Le chargement mécanique des foyers de locomotives. E: Sauvage. Génie Civil 85:484-5 N 22 '24
Coking shelf a feature of new Huber stoker. il Power Pl Eng 29:218 F 1 '25
Computing guaranteed stoker efficiency. H. F. Gauss. diag Power 59:813-15, 858-60 My 20-27 '24; Discussion. 60:64 Jl 8 '24
Control of power production. C: L. Hubbard. il Factory 33:667-70+ N '24
Cutting down cost of pumping; studies by St Louis water department to determine savings effected by mechanical stokers. Eng & Contr (W W) 62:790 O 8 '24
Duplex G-2 stoker for steam shovels. il Ry Age 76:1610-11 Je 16 '24
DuPont-Simplex type B locomotive stoker; recent developments. A. M. Hunt. diags plan Ry R 74:969-71 My 31 '24; Ry Age 76: 1327-9 My 31 '24
DuPont-Simplex type B stoker performance data. Ry Age 78:1485 Je 13 '25
Effective gas and air mixing with underfeed stokers. M. Ratel. Power 60:339-40 Ag 26 '24
8000 B. hp. for Standard oil co. il Power Pl Eng 29:173-5 F 1 '25
Factors in the choice of a combustion system. E. B. Ricketts. Power Pl Eng 27:1194-6 D 1 '23; Discussion. S. Martin. 28:201-2 F 1 '24
Firing refractory brick in a round downdraft kiln with a mechanical stoker. E. E. Ayars. Am Cer Soc J 7:889-94 D '24
Ford speedometer for indicating and recording stoker speed. C: Learmouth. il Power 59:62 Ja 8 '24
Furnace efficiency; the effect of mechanical firing on its attainment. il Electrician 91: 730 D 28 '23
Further development of an automatic kiln stoker. J: D. Martin. Am Cer Soc J 7:878-84; Discussion. 884-8 D '24
Higher thermal results in the boiler room, and the relation between efficiency and economic values. J. G. Worker. il chart diags Eng Soc W Pa 41:33-55 Mr '25; Abstracts. Blast F & Steel Pl 12:599-63 D '24; Power 60:1063-5 D 30 '24; Power Pl Eng 28:1196-8; 29:736-7 D 1 '24, Jl 15 '25; Mech Eng 47:586-7 Jl '25; Discussion. Eng Soc W Pa 41:56-80 Mr '25
Ideal forced-draft stoker for small boilers. il Power 59:698 Ap 29 '24
Die Kablitz-überschubfeuerung. H. Fahrbach. diags Zeit Ver Deutsch Ing 69:91-2 Ja 24 '25
Kearny to have largest stokers. il diag Power 60:709 O 28 '24
Kiln stokers. J: D. Martin. il Am Cer Soc J 8:396-400 Je '25; Abstract. Brick & Clay Rec 66:348-9 Mr 3 '25
Measuring coal on traveling grate stokers. Power 61:621, 959, 62:65, 300, 458, 734, 912-13 Ap 21, Je 16, Jl 14, Ag 25, S 22, N 10, D 8 '25
Mechanical stokers. R. June. il Blast F & Steel Pl 12:385-8 Ag '24; Same. Gas Age 54: 113-16 Jl 26 '24
Mechanical stokers and details of furnaces for special fuels. Power Pl Eng 28:50-1 Ja 1 '24
Mechanical stokers for the power plant. il diag Power Pl Eng 28:56-62 Ja 1 '24
Mechanical stokers sold Jan.-June, 1925. Power 62:155 Jl 28 '25
Mechanical stoking. D: Brownlie. 234p Pitman '23
Negotiating purchase of stokers. H. N. Scofield. Power Pl Eng 28:559 My 15 '24
Operation of underfeed stokers. Power Pl Eng 28:194 F 1 '24
Pluto stoker. diag Elec R (Lond) 94:475-6 Mr 21 '24
Profits in stoker firing. F. Juraschek. il Ind Management 69:354-9 Je '25
Pulverised coal firing v. mechanical stokers. W. D. Wylde. Elec R (Lond) 94:723-4 My 2 '24; Discussion. 94:832, 946 My 23, Je 6 '24
Pulverized fuel and efficient steam generation. D: Brownlie. Inst E E J 62:385-418 My '24; Abstracts. Elec R (Lond) 93:956-7 D 21 '23; Electrician 91:690 D 21 '23; Engineer 136:665 D 21 '23; Soc Chem Ind J (Chem & Ind) 42:1236-7; 43:66 D 21 '23, Ja 18 '24; Gas J (Lond) 165:34 Ja 2 '24; Power 59:33 Ja 1 '24; Discussion. Inst E E J 62:418-69; 63: 386-7 My '24, Ap '25; Elec R (Lond) 93:957-8 D 21 '23; Electrician 91:695; 92:12, 45, 73, 135, 138, 168, 230 D 21 '23, Ja 4-18, F 1-8, 22 '24; Engineer 136:695-6; 137:14, 42, 68, 103, 128, 146, 261 D 28 '23-F 8, Mr 7 '24
Reducing width of stoker front. Power Pl Eng 28:636 Je 15 '24
Reflection from a stoker arch. R. C. Warner. il diags Power 59:367 Mr 4 '24
Report on stoker fired kiln test. Brick & Clay Rec 63:836-7 D 11 '23
Saving due to improved efficiency. M. G. Flesher. Power Pl Eng 28:330-1 Mr 15 '24
Statistics on mechanical stokers. Blast F & Steel Pl 12:522 N '24
Steam engine as a stoker drive. il Power Pl Eng 28:1000-2 O 1 '24
Stoker fired locomotives and the future engineman. Ry Age 77:554-5 S 27 '24
Stoker-fired stills. S. A. Coffing. il diag Chem & Met Eng 32:63-4 Ja 12 '25
Stoker for small furnaces. il diag Chem & Met Eng 31:275 Ag 18 '24; Power Pl Eng 28:924-5 S 1 '24; Management & Adm 8: 423-4 O '24
Stoker maintenance. C. E. Harrison. Power 59:1008 Je 17 '24
Stoker operation improved by simple changes. diags Power Pl Eng 29:529-31 My 15 '25
Stokers sold during 1923 and 1924. Power 61: 197 F 3 '25
Traveling engineers' association report on stokers. Ry Age 79:533-4 S 19 '25
Turbulator; stoker for small-sized anthracite. diags Power 62:737 N 10 '25
Type D-2 Duplex locomotive stoker. il Ry Age 76:1453 Je 12 '24
Underfeed mechanical stokers in the paper industry. E: B. Cowles. il Paper Tr J 78: 48-9 F 21 '24
Underfeed stokers. J. G. Worker. il diags Refrig Eng 10:295-304; Discussion. 304-5+ F '24
Underfeed stokers and economy in coal. J. G. Worker. il diags Management & Adm 7:287-90 Mr '24; Same. Blast F & Steel Pl 12:176-80 Mr '24; Same abr. Coal Age 25:347-9 Mr 6 '24; Same cond. Gas Age 53:185-8 F 16 '24; Same cond. Power Pl Eng 28:226-7 F 15 '24; Excerpts. Power 59:385 Mr 4 '24; Discussion. M. Ratel. Power 59:615-16 Ap 15 '24
Underfeed type C mechanical stoker. Chem Age (Lond) 11:292 S 20 '24; Engineer 138: 532 N 7 '24

STOKERS, Mechanical—*Continued*
Universal coal spreader. il Power 62:504 S 29 '25
Unusually high CO_2 obtained with chain-grate stokers. R. E. Thompson. diags Power 60: 466 S 16 '24
Use of small stokers increases. Power Pl Eng 29:950 S 15 '25
What type of stoker drive should be used? il Power Pl Eng 28:374-7 Ap 1 '24
Would the installation of a stoker be advisable? Power Pl Eng 28:205, 353 F 1, Mr 15 '24

Control

Drive and speed control of mechanical stokers. il diags Power Pl Eng 28:52-5 Ja 1 '24
How to regulate underfeed stokers. J. E. Richardson. diag Power 60:401-2 S 9 '24
Long-stroke control for an underfeed stoker. A. P. Child. diag Power 60:503-4 S 23 '24
Motors and control for stoker drive. R. Kelly. il diag Elec J 21:221-4 My '24
Speed regulation of underfeed stokers. J. E. Richardson. Power 60:24 Jl 1 '24; Discussion. 60:188, 223-4, 262, 301, 505-7 Jl 29-Ag 19, S 23 '24

Feeding devices

Hydraulically operated coal spout oscillator. il diag Power 62:345 S 1 '25
Phillips coal spout swinger. il Power 62:31 Jl 7 '25; Power Pl Eng 29:668 Je 15 '25
Power feed for Cokal stoker. il Power 60: 511 S 23 '24

History

Developments in mechanical stokers; abstract. Ry R 77:477-9 S 26 '25

Lubrication

Lubrication of the automatic stoker. A. F. Brewer. il Blast F & Steel Pl 12:553-6 D '24

STONE, Harlan Fiske
Attorney-general Harlan F. Stone named as associate justice of United States Supreme court, succeeding Joseph McKenna, resigned. Comm & Fin Chr 120:148-50 Ja 10 '25
Give business fair deal, is creed of new Attorney General. J: T. Flynn. por Automotive Ind 50:853-4+ Ap 17 '24

STONE, John Stone, 1869-
Sketch. O. C. Roos. por Wireless Age 12:31+ F '25

STONE, Warren S., 1860-1925
Enigma of Warren Stone. J. B. Morrow. por Nation's Business 12:28-30 F '24
Labor leader or capitalist—which? Ry Age 78:873-4 Ap 4 '25
Sketch. Comm & Fin Chr 120:3272 Je 27 '25; por Ry Age 78:1527-8 Je 20 '25

STONE
Better measurement of properties of stone. Eng & Contr (Bldgs) 63:1174 My 27 '25
Influence of calcium sulphate on the promotion of stone decay. A. P. Laurie. Gas J (Lond) 168:514 N 19 '24
Production of stone in 1923. Eng & Contr (R & S) 61:1034 My 7 '24
Stone in 1922. G. F. Loughlin and A. T. Coons. U S Geol S Min Res of U S 1922. pt 2:261-344 '24
Thermal expansion of stone. Am Arch 127: 298 Mr 25 '25; Same. Eng & Contr (Bldgs) 63:891-2 Ap 24 '25

See also Blasting; Building stone; Concrete stone; Granite; Gravel; Limestone; Marble; Masonry; Quarries and quarrying; Road materials; Rocks; Sandstone; Scoria

Testing

Standardization of the crushing strength test for rock. Pub Roads 5:18 Je '24; Same. Eng & Contr (R & S) 62:45 Jl 2 '24

STONE, Crushed
Abrasion test for crushed stone. Pub Roads 5:15 N '24; Same. Eng & Contr (R & S) 63: 23-4 Ja 7 '25
Building a motor road across the Florida Everglades. F. E. Lawrence and R. Y. Patterson. il plan map Eng N 93:412-17 S 11 '24
Concrete pit structure subjected to diverse stresses; provides watertight foundation and inclosure for rock crusher. A. E. Wynn. il diags Eng N 95:762-3 N 5 '25
Crushed-stone tests and their relation to the service of the finished pavement. A. T. Goldbeck. Pub Roads 5:15-18 F '25
Design of reinforced-concrete bins for crushed stone plant. J. M. Taggart. il diag Eng N 94:356-7 F 26 '25
Electric motor in the crushed stone industry. E. W. Pilgrim. il Gen Elec R 28:762-9 N '25
L.O.X. lifts 4500 tons of rock. F. W. O'Neil. il Concrete 25:sup45-7 S '24; Same abr. Eng & Min J 118:16-18 Jl 5 '24
Marketing crushed stone. H. B. Allen. Eng & Min J 119:490-2 Mr 21 '25
Rebuilt plant for rock ballast supply. il Ry R 77:98-9 Jl 18 '25

See also Crushing

STONE-dusting of mines. See Coal mines and mining—Safety measures

STONE Mountain monument
Carving a monument with machinery on the side of Stone Mountain. A. J. Haine. il diag Iron Tr R 73:1357-62 N 15 '23
Making a monument out of a mountain. il Sci Am 131:90 Ag '24
Sculptural engineering at Stone Mountain, Georgia. il diag plan Eng N 93:466-8 S 18 '24
Stone Mountain: a memorial for all time. R. Winter. Manuf Rec 85:70-5 F 28 '24

STONE pavements. See Pavements, Stone

STONECUTTERS
Stonecutters—Denver; award rendered by Industrial commission of Colorado in case of strike Sept. 4, 1924. Monthly Labor R 19: 1084-5 N '24

STONECUTTING

See also Granite cutting

Records

Production control in a granite mill. F. A. Westbrook. il Ind Management 69:295 My '25

STONES, Precious. See Precious stones

STONEWARE
Common stoneware decorated by the china painter's process. A. M. White. Am Cer Soc J (Bul) 8:220-1 My '25
Fine stoneware from flint clay. P. E. Cox. Am Cer Soc J 8:257-8 Ap '25
Slip painting process suited to the craftsman whose equipment is limited. D. W. Cox. Am Cer Soc J 8:310-12 My '25
Unique development of modern chemical stoneware. P. C. Kingsbury. il diags Am Inst Chem Eng Trans v 14:275-89; Discussion. 289-92 '21-'22

See also Glazes

STOP watches. See Watches

STOPCOCKS
Simple methods for removing frozen-in glass stopcocks and stoppers. E. G. R. Ardagh. Can Chem & Met 9:137-9 Je '25
Stopcock lubrication and an improved lubricant. E. G. R. Ardagh and A. L. Davidson. Can Chem & Met 9:137 Je '25

STOPING methods. See Mining engineering

STORAGE
How to find the contents of horizontal storage tanks. J. B. Reynolds and S: Cottrell. diag Chem & Met Eng 31:665-7 O 27 '24
Storage of minerals on open ground: considered in relation to reclaiming requirements. H. Blyth. il diags plan Chem Age (Lond) 9: 562-4 N 24 '23
Storing and handling of materials for concrete products. W: F. Lockhardt. diags Concrete 25:154-6 O '24

See also Bins, Concrete; Clay storage; Coal storage; Cold storage; Explosives—Storage; Film storage; Freight houses; Gas-

STORAGE—*Continued*
oline storage; Oil storage; Pattern storage; Storehouses; Storerooms; Stores systems; Tool storage; Warehouses; Warehousing; Water storage

Cost

Wirtschaftliche grundlagen der lagerung und stapelung. H. Aumund. diags Zeit Ver Deutsch Ing 69:1225-32 S 19 '25

STORAGE batteries

Automobile storage-batteries, their operation and care. T. R. Cook. Soc Auto Eng J 14: 83-4 Ja '24

Automotive storage battery, its operation and care. T. R. Cook. Soc Auto Eng J 16:503-4; Discussion. 504-9 My '25

Battery exports and car imports increase. Automotive Ind 50:527 F 28 '24

Battery life depends upon proper care and service. Automotive Ind 49:1258-9 D 20 '23

Battery trucks and Edison cells. Elec R (Lond) 95:926-8 D 19 '24

Effect of certain impurities in storage battery electrolytes. G. W. Vinal and F. W. Altrup. il Am Inst E E J 43:313-20 Ap '24

Elements of storage batteries. C. M. Jansky and H. P. Wood. 240p McGraw-Hill '23

Les essais controlés de véhicules électriques à accumulateurs (octobre 1924). C: Dantin. il diags Génie Civil 85:589-96 D 27 '24

Home-made storage battery. J. W. Conzelman. diags Wireless Age 12:58+ F '25

How ships use storage battery. J: W. Weigt. il Marine R 54:286-7 Jl '24

Improved type of accumulator. J. Grant. Soc Chem Ind J (Chem & Ind) 44:502-3 My 15 '25

Measurement of electrical resistance and mechanical strength of storage-battery separators. C. L. Snyder. diags U S Bur Stand Tech Pa 271:619-34 '25; Abstract. Automotive Ind 52:870 My 14 '25

Mine cuts and hauls coal with battery power. J. B. Hicks. il Coal Age 27:39-42 Ja 8 '25

Modern radio storage batteries. J. M. Skinner. il diags Radio N 6:1175+ Ja '25

Non-sulphating storage battery developed. Automotive Ind 52:156 Ja 22 '25

Procedure for inspecting and maintaining storage batteries. Ind Eng 82:548 N '24

Production of electric current. S. Miller. Wireless Age 12:32+ Jl '25

Real 100-volt B battery. J: W. Brooks. Wireless Age 11:59-60+ D '23

Starting and lighting battery. 111p Willard storage battery co., Cleveland, O. '23

Storage batteries. G: W. Vinal. 402p Wiley '24

Storage batteries in the power plant. il Power Pl Eng 29:93-4 Ja 1 '25

Storage battery troubles; discussion. Electrician 92:195 F 15 '24

Storage cell of new pattern; the chloride DBG and DSG cells. il Elec R (Lond) 97:399 S 4 '25; Electrician 95:274 S 4 '25

La traction électrique par accumulateurs sur les grands réseaux. diags Génie Civil 85: 523-6 D 6 '24

Use of storage batteries in mines. J. B. Hicks. Min Cong J 11:331-2+ Jl '25

Willard charged bone dry batteries simple to ship and store. Automotive Ind 50:1223-4 Je 5 '24

Die wirkung von radium auf elektrische batterien. M. Hartenheim. il Elektrotech Zeit 45:41-3 Ja 17 '24

Your radio storage battery. D. G. Ward. il diag Wireless Age 11:42-3+ Ap '24

See also Electric batteries; Electric locomotives, Storage battery

Advertising

Stopping the leak in storage-battery advertising. R. E. Hutchinson. Elec W 83:1355-6 Je 28 '24

Success of new advertising brings a price reduction on product. W: A. McGarry. Ptr Ink 126:25-8 Ja 3 '24

Charging

ABC of your C, B and A batteries. diags Wireless Age 11:69+ Ag '24

Arrangements for battery charging. il Bus Transportation 4:448 S '25

Battery charging outfit installed by Los Angeles store. il J Elec 54:253 Ap 1 '25

Battery charging with rectigon rectifiers. E. W. Breisch. il diags Elec J 21:155-9 Ap '24

Charging equipment for electric trucks. F. A. Westbrook. il Elec W 85:1083-4 My 23 '25

Charging storage cells in celluloid cases; precautions suggested with a view to preventing fires. Elec R (Lond) 96:929-30 Je 12 '25

Determining charging rate for storage battery. Ind Eng 82:197-8 Ap '24

Electric truck battery charging equipment. O: Sarvas. il diags Elec J 21:136-9 Ap '24

Finishing battery charge paramount. W. E. Dunn. Elec W 84:1162-3 N 29 '24

Improvements made in storage battery charging control. plan Automotive Ind 53: 146 Jl 23 '25

Practical pointers on charging storage batteries. G. H. McKelway. diag Ind Eng 83: 548-9 N '25

Rectifiers for charging small accumulators for wireless and other purposes. il diags Engineer 140:185-7, 220-1 Ag 21-28 '25

Small-unit charging sets for electric trucks. il Elec W 83:1241 Je 14 '24

Storage battery trucks save time and labor. il diag Elec Ry J 65:453 Mr 21 '25

Testing and operation of rectigon rectifiers. S. B. Kraut. il diags Elec J 21:363-8 Ag '24

Manufacture

Casting lead alloys in endless strips. il Mach 30:610-12 Ap '24

Electric accumulator manufacture; lead poisoning as an industrial disease. Elec R (Lond) 94:45-6 Ja 11 '24

Electric heat in battery manufacture. P. E. Norris. il Management & Adm 9:380 Ap '25; Same. Ind Eng 83:251 My '25

Electric heat used for battery compound. F. W. McGraw. Elec W 86:468 S 5 '25

Manufacture and repair of electric accumulators. C. W. Price and J. C. Bridge. J Ind Hygiene 7:451-74 O '25

Visit to the Chloride accumulator works. il Elec R (Lond) 96:528-9 Ap 3 '25; Electrician 94:408 Ap 3 '25

Repair

Some of the points to think about when repairing storage batteries. F. J. H. Krause. Ind Eng 83:256 My '25

Standards

Battery tray terminal proposed by S. A. E. diag Soc Auto Eng J 16:42 Ja '25

Five truck-batteries recommended by S. A. E. Soc Auto Eng J 16:38-9 Ja '25; Automotive Ind 52:155 Ja 22 '25

Radial engines. Soc Auto Eng J 16:594 Je '25

Rating at 5-amp. incorrect. Soc Auto Eng J 16:149-50 F '25

Standards adopted by battery makers. Automotive Ind 52:920 My 21 '25

Storage-batteries; S.A.E. standard. diags Soc Auto Eng J 15:397-8 N '24

Storage-battery division report. Soc Auto Eng J 14:48-9 Ja '24

20-hr. battery rating recommended. Soc Auto Eng J 16:493 My '25

Testing

Storage battery electrolytes. G. W. Vinal and G. N. Schramm. Am Inst E E J 44: 128-32 F '25; Same cond. Power 61:509-10 Mr 31 '25; Discussion. Am Inst E E J 44: 644-5 Je '25

STORAGE battery cars. See Motor cars (railroad)—Storage battery

STORAGE battery locomotives. See Electric locomotives, Storage battery

STORAGE industry
Found: the safest business with large profits. N. M. Clark. il Forbes 16:871-3+ O 1 '25

Accounting

Accounting for a taxi-cab, transfer and storage business. C: F. Schlatter. J Account 39:367-79 My '25

Advertising

Another industry takes its first advertising steps; furniture warehousemen's cooperative campaign. Ptr Ink 132:73-4 S 10 '25

STORAGE racks
Millwork stored in racks. il Elec Ry J 65:70 Ja 10 '25
Modern practice in the use of shelves and racks in industrial storerooms. F. E. Gooding. Ind Eng 82:571-3+ D '24
Outdoor storage rack for bar stock. J. T. Porter. il Elec Ry J 65:943-4 Je 13 '25
Savings through proper storage. H: O. Lowell. il Textile World 68:667+ Ag 1 '25
Steel shelving in industry. il Management & Adm 9:456 My '25
Storage rack for arch brick. J. Smith. diag Ry Mech Eng 99:300 My '25

STORAGE tanks. See Tanks

STORE buildings
Addition to department store of R. H. Macy & co., inc., New York. R. D. Kohn. il diags plans Am Arch 125:530a-7 Je 4 '24
Antique building granted new lease of life. P. Brockway. il Bldg Age 46:127 D '24
Architecture of retail stores. W: L. Bottomley. il plans Arch Forum 40:233-8 Je '24
Architecture of the small shop. il plans Arch Forum 42:97-120; 43:97-112 F, Ag '25
Court idea for stores. C: A. Byers. il diag Bldg Age 46:94-5 N '24
Decoration as applied to modern retailing with special reference to the new Brentano's book store, New York. il plan Am Arch 128:91-6 Jl 29 '25
Decorative treatment of the Schrafft stores. C: E. Birge. il Arch Forum 40:261-3 Je '24
Development of the arcaded shop front. il plans Arch Forum 40:269-72 Je '24
Essential details in store designing. E. J. Kahn. il Arch Forum 40:245-8 Je '24
Finchley building, New York city. Arch & Bldg 57:13-14, pl 34-7 F '25
Group of shop fronts in Los Angeles, Cal.; views. Am Arch 125:457-61 My 7 '24
How an improved store front increased sales; Ibanez & company, Havana. il Am Exporter 95:43-4 Jl '24
Hutchinson building, Boston, Mass.; views and plans. Arch Rec 58:133-6 Ag '25
Lefcourt Marlboro building, New York city. Arch & Bldg 57:42-3, pl 107-8 My '25
Liberty & co.'s building, London. I. K. Pond. il Am Inst Arch J 12:393-5 S '24
Making apartments into stores. il Bldg Age 47:133 O '25
Netting building, Detroit, Mich.; views and plans. Am Arch 127:pl 139-40 Je 3 '25
Les nouveaux magasins du Printemps, à Paris. J. Michaut. il diags plans Génie Civil 85:81-9, 108-13, pl 3 Jl 26-Ag 2 '24
Old English shop fronts. J: T. Boyd, jr. il diag Arch Forum 40:257-60 Je '24
Ornamental shop fronts. P. M. Hooper. il Arch Forum 40:265-8 Je '24
Park avenue building, Detroit, Mich.; views and plans. diag Am Arch 126:594-6 D 17 '24
Philadelphia shop fronts. Am Arch 125:122b-c Ja 30 '24
Proposed reinforced concrete construction over streets to relieve traffic congestion. C: Hurst. diag Concrete 27:39 Ag '25
Recent shop fronts in New England. D. Somes. il Arch Forum 40:249-52 Je '24
Retail store fronts, chiefly in New York; description and views. Arch Forum 40:pls 81-96 Je '24
Shopping center; student work, Beaux-arts institute of design. il Am Arch 125:363-8 Ap 9 '24
Store and apartment building. il plans Bldg Age 47:108 Ja '25
Store and studio building for J. Harvey McCarthy co., Los Angeles, Calif.; views and plans. Am Arch 127:pl 89-91 Ap 8 '25
Stores in the Spanish style. il Arch Forum 40:239-44 Je '24
Study of store fronts. il diags Bldg Age 46:60, 63, 68 Je '24
Three modern Parisian shop fronts with measured drawings. G: L. Dahl. Arch Forum 40:281-7 Je '24
Two specialty shops in Cleveland. C. W. Broemel. il Arch Forum 40:253-6 Je '24
Village store group, Watchung, (Montclair), N.J.; view and plan. Am Arch 128:315 O 5 '25

See also Department stores

Electric equipment

Electrical equipment for retail shops; abstracts with discussion. E. E. Sharp. Elec R (Lond) 96:131-2 Ja 23 '25; Electrician 94: 98+ Ja 23 '25

Heating and ventilation

Heating and ventilating of shops and stores. E. L. Cole. plans Arch Forum 40:277-80 Je '24

See also Department stores—Heating and ventilation

Lighting

Correct electric lighting big factor in increasing merchants' sales. W. MacCue. Pub Serv Management 38:82-3 Mr '25
Display case lighting in stores. J. L. Stair and W. Foulks. il diags Illum Eng Soc 20: 113-29; Discussion. 129-34 F '25
Large stores lighting. il Elec R (Lond) 93: 699-700 N 9 '23
Recommended standards for commercial lighting; report of committee of Pacific coast electrical association. J Elec 52:411-12 Je 1 '24
San Francisco store-lighting campaign. Elec W 83:438-9 Mr 1 '24
Selling more light to storekeepers. G. E. Miller. il Elec W 83:534-6 Mr 15 '24
Selling more light to the small store. J. Daniels. il plan Elec W 85:510-12 Mr 7 '25
Shop lighting. W. E. Bush. il Electrician 93: 340-1 S 26 '24
Staging a store-lighting demonstration. Elec W 83:786-7 Ap 19 '24
Statistical data on shop-lighting. W. J. Jones and H. Lingard. Elec R (Lond) 96:916 Je 5 '25
Symposium on store and show-window lighting; semi-exclusive jewelry store. D. W. Atwater and others. plans Illum Eng Soc 20:352-80 Ap '25
Symposium on store lighting; semi-exclusive women's-wear shop. C: D. Poey and others. plans Illum Eng Soc 20:327-41; Discussion. 342-51 Ap '25
Utilizing light to make more sales. W. S. Brown. il System 48:214+ Ag '25

See also Show windows—Lighting

STORE door delivery. See Freight handling—Store door delivery

STORE fixtures
Showcase and counter arrangement. H. F. Sipple. il plans Arch Forum 40:273-6 Je '24
Small town store does away with counters. J: A. Manson. il plan Am Exporter 95:45+ S '24

STORE management. See Retail trade—Store management

STOREHOUSES
York mfg co. builds storehouse. C: M. Mumford. il Textile World 67:1270 F 14 '25

See also Oil storage; Railroads—Storehouses; Storage; Stores systems; Warehouses

STOREHOUSES, Concrete
Accumulateur en béton armé pour le stockage et le chargement du phosphate de chaux, à Kourigha (Maroc). F. Willm. il diags map Génie Civil 86:77-80 Ja 24 '25

STOREHOUSES, Concrete—*Continued*
Industrial site effects concentration of supplies; San Joaquin light & power corporation operates efficient supplies. D. P. Mason. il diags plan J Elec 54:134-7 F 15 '25
Sawmill fuel house built of concrete. E. L. Crowe. il Eng N 93:348-9 Ag 28 '24; Same. Eng & Contr (Bldgs) 62:929-33 O 22 '24
Underground storage for oils and paints. il Elec Ry J 65:620 Ap 18 '25
Wide span concrete roof on concrete storehouse of Associated oil company at Avon, California. il Eng & Contr (Bldgs) 61:705-6 Mr 26 '24

STOREROOMS
Central location for storeroom found advantageous. il Elec Ry J 66:10 Jl 4 '25
How remodeling saved two men's wages. S. T. Boras. System 47:520 Ap '25
How we control the humidity of our storerooms. G. D. Allman. il System 45:862-3 Je '24; Same. Heat & Ven 21:67 O '24

STORES (retail trade)
Identifying features of the retail sales place. J. F. Pyle. Univ J of Business 2:414-27; 3: 82-97 S-D '24

See also Department stores; Retail trade; Show windows; Store buildings

Equipment

See Store fixtures

Location

Guiding points in the location of the cooperative store. Monthly Labor R 17:1417-18 D '23
How manufacturers can help retailers select store sites. Ptr Ink 129:166+ O 9 '24
Retail store location. U S Bur For & Dom Com Trade Information Bul 269:1-12 '24
Success in retailing. Sanitary & Heat Eng 102:339 N 14 '24
We expand at home first. J. F. Gibson. il map System 47:771-4+ Je '25

STORES, Traveling. See Traveling stores

STORES systems
Arrangement and storing of materials; report of committee of Pacific coast electrical association. il J Elec 52:424-6 Je 1 '24
Assignment stock record system. E. G. Field. Management & Adm 6:754 D '23
Balance-of-stores accounting system. I. D. Murfield. Elec W 84:66-9 Jl 12 '24
Better management in the factory storeroom. J. F. Boerger. il Factory 32:493 Ap '24
Budget control of materials and supplies for public utilities. W: P. McArdle. Aera 13: 439-51 O '24
Capitalizing the advantages of the small factory. D. S. Cole. Ind Management 69:360-4 Je '25
Care and control of raw materials. il Factory 32:831-4+; 33:34-5+ Je-Jl '24
Centralization of stores and control of stock. Elec W 83:835 Ap 26 '24
Control of materials. P. M. Atkins. Ind Management 67:310-18 My '24
Control of stock in the warehouse. D. G. MacInnes. Iron Age 114:1401-2 N 27 '24; Same. Cassier's Ind Management 12:299-300, 374 My, Jl '25
Co-ordinating purchasing and production. Management & Adm 7:315-16 Mr '24
Cost accounting for shop work. G. G. Thompson. Management & Adm 9:67-70 Ja '25
Economical system of issuing and checking stores. R. B. Hobson. Cassier's Ind Management 12:294-5+ My '25
Efficient store department. A. C. Hustler. il Marine R 55:47 F '25
Electrical jobber's stores department. P. W. Todt. J Elec 52:162-4 Mr 1 '24
Establishing material and parts control. G: D. Babcock. il Management & Adm 8:265-70 S '24
Extreme variety versus standardization. J: H. Van Deventer. Ind Management 67:81-8, 129-35 F-Mr '24
Flexibility in handling production material. A. A. Brown. Soc Auto Eng J 14:148-50 F '24; Discussion. 15:106-7 Jl '24
Handling cost reduced by rearranging stock room. il diag Iron Age 115:1056-7 Ap 9 '25
How to maintain proper inventory control. H. S. Owen. Ind Management 69:83-5 F '25
How we abolished the requisition nuisance. B. Klugkist. il Factory 34:593+ Ap '25
How we keep straight on 20,000 items of stock. C. W. Adams. il System 48:185-90+ Ag '25
Identification of material handling costs develops unusual possibilities. il plan Ry R 75:706-14 N 8 '24
Keeping records of property. Ind & Eng Chem 16:858-9 Ag '24
Material-handling problems encountered in the assembly of automobiles. M. R. Denison Mech Eng 46:339-42 Je '24; Abstract. Automotive Ind 50:1276-7 Je 12 '24
Methods to keep inventories down to a minimum. W. J. Graham. Management & Adm 9:471-4 My '25
New type of material control record. R. E. Case. il Management & Adm 9:543-8 Je '25
Obtaining equipment and supplies for maintenance. J. E. Housley. il plan Ind Eng 82: 169-73 Ap '24
One master form basis of material buying and control system. S. L. Carver. Automotive Ind 50:806-11 Ap 10 '24
Perpetual inventory and stores control. Rev. ed. 26p U.S. Chamber of commerce, Washington '24
Practical application of the theory of accounting for supplies. P. W. Pogson. J Account 36:430-9 D '23: Same cond. Paper Tr J 78: 59-61 F 7 '24
Practical methods for minimizing waste at Westinghouse. C. B. Auel. il Management & Adm 8:65-70 Jl '24
Production control in a small organization. G. C. Brown. Management & Adm 7:308-10 Mr '24
Proper handling of obsolete scrap material and equipment; report of Pacific coast electrical association. J Elec 54:520-9 Je 1 '25
Quantity control of inventories. E. K. Wennerlund. Management & Adm 7:677-82 Je '24
Receiving, storing and issuing factory material. P. M. Atkins. Ind Management 67: 120-6 F '24
Regaining the losses incurred through poor management. J. M. Kinney. Factory 32: 340+ Mr '24
Relation of the cost department to control of materials. Ind Management 68:207-8 O '24
Right material; right place; right time. W. H. Fleming. Factory 34:438-41+ Mr '25
Savings through proper storage. H: O. Lowell. il Textile World 68:667+ Ag 1 '25
Short cut for stores accounting. C. E. Bliven. Am Mach 62:928 Je 11 '25
Simple method that reduced our waste of materials. C. C. Hermann. Factory 35:206-7 Ag '25
Simple plan for keeping stocks balanced. A. L. Short. System 46:39 Jl '24
Stores organisation; maximum and minimum tool stocks. Engineering 117:469-70 Ap 11 '24
Tool and stock crib. W. E. Irish. Ind Management 67:55-7 Ja '24
Two problems of the stores department. P. W. Todt. Elec W 83:308-9 F 9 '24
Workable production control system. E: Davis. il Am Mach 61:7-10 Jl 3 '24
Works ordering and shop requisitioning system. W. S. Findlay. Cassier's Ind Management 12:155-7 F '25
Works records department. W. J. Hiscox. Cassier's Ind Management 11:151-2 Mr 20 '24

See also Forms and blanks, Business; Mine management—Store systems; Pattern storage; Public utilities—Stores systems; Railroads—Stores systems; Storage; Storage racks; Street railroads—Stores systems; Tool rooms; Tool storage; Tools

STORM detectors
Approaching storms detected by static instrument. J: Van Veen. il diag Elec W 84:954 N 1 '24

STORM doors
Storm doors. O. B. Maginnis. diags Bldg Age 45:64-5 N '23

STORMS
Storm effects on ocean inlets. M. P. Hite. map Am J Sci 5th ser 7:319-26 Ap '24

See also Cyclones; Meteorology; Rain and rainfall; Snow; Thunderstorms; Tornadoes

STORRS, Lucius S.
Managing director appointed for American electric railway association. por Elec Ry J 65:285, 571-2 F 21, Ap 11 '25; Pub Serv Management 38:71-2 Mr '25
Managing director for traction. J. N. Shannahan. por Nation's Business 13:42-4 Je '25

STOUT, William B.
Is the to-morrow of commercial aviation almost here? N. M. Clark. por Forbes 16:813-15+ S 15 '25

STOVES
Can a range stove connected to a range boiler be removed when the house is sold, if it has not been reserved? Dom Eng 110:51+ F 28 '25
Patterns for heavy sheet metal work by computation; layout for range canopy. W: Neubecker. diag Sheet Metal Worker 14:999+ Ja 18 '24

See also Electric stoves; Gas stoves; Oven linings

History

Records early stove industry. E. C. Kreutzberg. il Foundry 51:973-80 D 15 '23

STOVES, Electric. See Electric stoves

STRAIGHTEDGES
Generating precision tools. W: E. Hoke. diags Mach 31:423 F '25

STRAIGHTENING
Car straightening device. il diag Elec Ry J 63:261 F 16 '24
Steel car straightening frame. il Ry R 75: 1028-30 D 27 '24
Straightener for damaged steel cars. P. V. C. See. il diags Elec Ry J 63:186 F 2 '24
Straightening and turning thin-walled tubes. A. Silvester. diags Am Mach 62:173 Ja 22 '25

STRAIGHTENING machines
British wire-drawing and wire-working machinery. il diags Engineer 138:500-2 O 31 '24
High production claimed in straightening castings. il Iron Age 116:12-13 Jl 2 '25
Wire straightening machine. il Iron Age 116: 351 Ag 6 '25

STRAIN gages
Accurate recording guage; Fereday-Palmer stress recorder employed in determining actual stresses in bridge members. Can Eng 45:414 O 16 '23; Same. Eng & Contr (Bldgs) 61:1424-5 Je 25 '24
Automatic stress recorder. R. S. Whipple. il diag Can Eng 48:116-17 Ja 6 '25; Same. Eng & Contr (Bldgs) 63:205-7 Ja 28 '25
Foster strainmeter. il diags Engineering 116: 772-3 D 21 '23; Same. Eng & Contr (Bldgs) 61:204-6 Ja 23 '24
Optical strain gages and extensometers. L. B. Tuckerman. il diags Am Soc T M Pro 23 pt 2:602-10 '23
Prizes offered for strain gages and vibration recorders. Eng N 94:118 Ja 15 '25
Steel bridge stress recorders. F. Johnstone-Taylor. il diag Can Eng 47:649-50 D 30 '24

See also Telemeter

STRAINERS
Details of the Watford Tremor strainer. il diags Engineer 138:97 Jl 25 '24
Self-freeing strainer heads. il Power Pl Eng 29:870 Ag 15 '25

See also Filters and filtration; Oil filters; Screens

STRAINS and stresses
Analysis of the stresses in the ring of a concrete skew arch. J. C: Rathbun. il diags Am Soc C E Pro 50:133-74 F '24; Discussion. 50:559-60, 679-705 Ap-My '24
Beams without lateral support. S. Timoshenko. Am Soc S E Pro 50:239-54 Mr '24
Behaviour of metals under compressive stresses; abstracts. H. I. Coe. Engineering 116:349-51 S 14 '23; Iron Age 113:996-9 Ap 3 '24
Bending action in bascule bridge counterweight failures. il Eng N 91:872-3, 1069, 1070 N 29, D 27 '23
Bending stresses in thin-walled tubes. J: Case. Philos Mag 6th ser 47:197-208 Ja '24
Calcul de la poussée d'un arc sur ses appuis mobiles avec ou sans tirant. G. Prudon. diags Génie Civil 84:203-5 Mr 1 '24
Calcul de l'arc à appuis mobiles avec tirant. G. Prudon. diags Génie Civil 85:256-8 S 20 '24
Calcul de l'arc à deux rotules équilibré par un chaînage polygonal. C. Molitor. diags Génie Civil 84:105-9 F 2 '24
Calcul de l'arc parabolique, doublement encastré, appliqué en particulier aux voûtes surbaissées. L. Légens. diags Génie Civil 87:250-3, 268-71 S 19-26 '25
Calcul des arcs soumis à des forces obliques. Rogoff. Génie Civil 87:165-8 Ag 22 '25
Le calcul des coupoles et des réservoirs. P. Caufourier. Génie Civil 86:165-6 F 14 '25
Calcul des enveloppes cylindriques soumises à des effets thermiques. A. Haegelen. diags Génie Civil 85:62-5 Jl 19 '24
Calcul des poutres à consoles et portiques raidis par des haubans. G. Prudon. diags Génie Civil 85:290-3 O 4 '24
Calculating deflections of beams by a simple method. P. G. Laurson. Eng N 93:424-5 S 11 '24; Discussion. 93:558, 760 O 2, N 6 '24
Calculation of quenching stresses in steel by using direct measurements. Engineering 118:343-4 S 5 '24; Discussion. 118:285 Ag 29 '24; Correction. 118:641 N 7 '24
Certain types of elastic stress which are peculiarly related to each of the several curvilinear orthogonal coordinate systems. R. F. Gwyther. Philos Mag 6th ser 47:679-89 Ap '24
Comparative strength of various sections of rolled steel beams. A. W. A. Eden. Eng N 95:603 O 8 '25
Constructions hyperstatiques à éléments droits. P. Thomas. diags Génie Civil 86: 434-7 My 2 '25
Continuous beams with irregular loads. W: R. Bryans. J Eng Educ 15:548-52 Mr '25
Corrosion cracking of steel under the influence of internal stresses. A. M. Portevin. diags Iron & Steel Inst J 108:71-89, pl 3; Discussion. 90-2 no 2 '23
Creep in metals under stress. Engineer 138: 671-2 D 12 '24
Cross sectional areas uniformly stressed in improved truck side frame. J. D. Hagans. il diags Ry R 76:973-9 My 30 '25
Deflection chart for timber beams. K. S. Dodd. Eng N 92:622 Ap 10 '24
Les déformations du béton armé soumis à l'extension. H: Lossier. diags Génie Civil 84: 445-7 My 10 '24
Design of safe press fits. J. K. Wood. Am Mach 61:943-6 D 18 '24
Determination of Poisson's ratio and a suggestion for its use in stress analysis. T. M. Jasper. Am Soc T M Pro 24 pt 2:1012-20; Discussion. 1021-3 '24
Determination of stress by optical methods. Engineering 118:284 Ag 29 '24; Discussion. 118:462, 704, 769; 119:132-3 S 26, N 21, D 5 '24, Ja 30 '25
Determination of stress in coal bunker supports. diag Power Pl Eng 28:1070-1 O 15 '24
Determination of the stresses in a beam by means of the principle of least work; abstract. W: Hovgaard. Mech Eng 47:753 S '25

STRAINS and stresses—*Continued*
Development of a method for measurement of internal stress in brass tubing. R. J. Anderson and E. G. Fahlman. il diags U S Bur Stand Tech Pa 257:229-41 '24; Same. Brass W 20:303-8 S '24
Early methods of proportioning structures. Eng & Contr (Bldgs) 61:707-8 Mr 26 '24
Effect of a hole in a bent plate. W. G. Bickley. diags Philos Mag 6th ser 48:1014-24 N '24
Effect of initial tension in flange bolts. M. D. Casler. Am Mach 60:369-70 Mr 6 '24
Effect of low and high temperatures on materials. F. C. Lea. diags Engineering 118: 816-17, 843-5 D 12-19 '24; Abstract. Engineer 138:661-2 D 12 '24; Discussion. Engineering 118:794-5; 119:10-11 D 12 '24, Ja 2 '25
Effect of rotation on stress distribution in electric railway motor pinions. A. L. Kimball, jr. diags Gen Elec R 27:130-1 F '24
Effect of shearing stress on the span calculations of a suspended cable. T. Ohtsuki. Inst E E J 61:1079-86 O '23
Effect of slight taper on shear in a girder. L. N. G. Filon. Engineering 118:789 D 12 '24; Discussion. J. M. Udale. 119:133 Ja 30 '25
Effective net section of drilled plates. C. R. Young and W. B. Dunbar. il diags Can Eng 47:575-80 D 9 '24; Same. Eng & Contr (Bldgs) 63:853-62 Ap 24 '25; Discussion. E: Godfrey. Can Eng 48:115 Ja 6 '25
Eigenspannungen in walzstäben unter besonderer berücksichtigung der schienen. P. Bardenheuer. il Stahl & Eisen 45:1098-1101 Jl 9 '25
Ermüdungserscheinungen und dauerversuche. R: Mailänder. Stahl & Eisen 44:585-9, 624-9, 657-61, 684-91, 719-25 My 22-Je 19 '24
Étude de la continuité dans un réseau rectangulaire de poutres et de piliers. H: Bordier. diags Génie Civil 84:248-54 Mr 15 '24
Experimental verification of Castigliano's principle of least work and of a theorem relating to the torsion of a tubular framework. A. J. S. Pippard and J. F. Baker. il diags Philos Mag 6th ser 50:97-112 Jl '25
Extension of the middle third theory. A. C. Vivian. diags Engineering 118:763-4 D 5 '24
Eye-bolt stresses as determined by photoelastic test. T: H. Frost and W. E. Richards. diags Soc Auto Eng J 17:213-16 Ag '25
Final report of the special committee on stresses in structural steel. Am Soc C E Pro 51:392-405 Mr '25; Abstract. Eng N 94: 198-9 Ja 29 '25; Excerpt. Ry Age 78:287 Ja 24 '25; Discussion. Am Soc C E Pro 51:696-700, 926-30 Ap-My '25
Formula for centrifugal tension. W. F. Schaphorst. Mach 30:699 My '24
Formulas for shipping box construction. M. L. Oglesby. il Management & Adm 7:323-8 Mr '24
Foundation test loads as affected by scale. S. D. Carothers. Can Eng 47:439-42 O 21 '24; Same. Eng & Contr (Bldgs) 64:939-45 O 28 '25
Initial strains and stresses in metal. diag Power 60:957 D 9 '24
Internal stresses. Engineer 140:sup143-4 S 25 '25
Internal stresses in laminated construction. A. L. Heim, A. C. Knauss and L: Seutter. il diags U S Nat Advisory Com for Aeronautics 1922:325-82 '23
Kräfte und materialfluss bei der bildsamen formänderung. E. Siebel. Stahl & Eisen 45: 1563-6 S 10 '25
Die lösung der fragen der zahnflankenberührung. R. Doerfel. diags Zeit Ver Deutsch Ing 69:149-54 F 7 '25
Mathematical theory of dynamic stresses in rotating gear pinions. P. Heymans. diags Mech Eng 46:583-7 O '24; Discussion. 46: 587-9; 47:138-40 O '24, F '25
Measured stresses in columns of 18-story building. il plan Eng N 93:540-2 O 2 '24
Measuring loads on stadium. Can Eng 48:318 Mr 17 '25
Minimum live loads allowable for use in design of buildings. (Simplified practice recommendation) 38p U.S. Bur. of Stand., Washington '24; Abstracts. Am Arch 128: 38 Jl 1 '25; Eng N 95:214 Ag 6 '25
Moments in restrained and continuous beams by the method of conjugate points. L. H. Nishkian and D. B. Steinman. diags Am Soc C E Pro 51:1591-1639 O '25; Discussion. 2065-71; 52:122-34 D '25-Ja '26
Net section of riveted tension members. T. R. Loudon. Can Eng 47:269-71 Ag 26 '24; Same. Eng & Contr (Bldgs) 63:648-51 Mr 25 '25
New method for computing the bursting forces acting on walls of vessels and pipes; abstract. I. M. Prokofieff. Mech Eng 47:209 Mr '25
Photoelasticity and its relation to gear wheels. A. L. Kimball, jr. il diags Am Mach 63:7-10, 51-4 Jl 2-9 '25; Same abr. Automotive Ind 52:1021-4 Je 11 '25
Problem of eccentric loading on earth. Eng N 93:722, 881-2 O 30, N 27 '24
Progress report of the A.S.C.E. special committee on stresses in structural steel. Am Soc C E Pro 50:[Soc aff] 263-71 Mr '24
Properties of matter under high pressure. P. W. Bridgman. il diags Mech Eng 47:161-9 Mr '25; Discussion. S. Timoshenko. 47: 513-15 Je '25
Reinforcing the web of rolled beams to carry excessive shear. A. Frank. diag Eng N 93: 599-600 O 9 '24
Release of internal stress in brass tubing. R. J. Anderson and E. G. Fahlman. il U S Bur Stand Tech Pa 285:235-65 '25
Release of internal stresses by heating. M. Polany and G. Sachs. Engineer 140:sup149 O 30 '25
Report on an experimental study of the forces exerted on the surface of a cutting tool. T. E. Stanton and J. H. Hyde. diags Engineering 119:148-50 Ja 30 '25; Abstract. Engineer 139:126 Ja 30 '25; Discussion. Engineering 119:124-5, 192-3 Ja 30, F 13 '25; Engineer 139:127-8 Ja 30 '25
Secondary failure of thin tubes of circular section subjected to terminal couples. M. S. Ahmed. diags Philos Mag 6th ser 47:319-23 F '24
Secondary stresses. Engineering 117:209-10 F 15 '24
Shear tests of reinforced concrete beams. Eng & Contr (Bldgs) 64:234 Jl 22 '25
Shearing stress in passenger car side girders. W. J. Meyer. diags Ry Mech Eng 98:604-8 O '24
Shortcuts for solving problems in concrete design; combined axial and bending stress. R. P. V. Marquardsen. diags Eng & Contr (Bldgs) 60:1327-30 D 26 '23
Should we consider secondary stresses? E: Godfrey. Can Eng 48:495-8 My 19 '25
Simplified beam and truss formula. M. P. Davis. Mach 30:459 F '24
Some remarks on column footings. D: C. Coyle. Eng N 92:1108-9 Je 26 '24
Der spannungszustand gewölbter böden. E. Höhn. diags Zeit Ver Deutsch Ing 69:155-8 F 7 '25
Statisch bestimmte fälle des gleichgewichts in plastischen körpern; abstract. Henky. diags Stahl & Eisen 44:1333-5 O 23 '24
Strain of swaying crowds on balcony measured at Iowa. Eng N 93:231 Ag 7 '24
Strength of steel tubing under combined column and transverse loading, including tests of columns and beams. T. W. Greene. il U S Bur Stand Tech Pa 258:243-76 '24
Stress measurements in buildings. Eng N 93:655 O 23 '24
Stress-strain curves and physical properties pertaining to hardness. H. P. Hollnagel. Mech Eng 47:917-19 N '25
Stresses and strains. diags Power 58:784 N 13 '23
Stresses due to a loaded surface when earth is treated as an elastic solid. S. D. Carothers. Engineering 118:1-2, 156-7+ Jl 4, Ag 1 '24

STRAINS and stresses—*Continued*
Stresses in a circular ring. L: N. G: Filon. 26p Institution of civil engineers, London '24
Stresses in a few welded and riveted tanks tested under hydrostatic pressure. A. H. Stang and T. W. Greene. il diags U S Bur Stand Tech Pa 243:645-66 '23; Abstract. Am Mach 59:846 D 6 '23
Stresses in a plate with a circular hole. S. Timoshenko. diags J Fr Inst 197:505-16 Ap '24
Stresses in a shell under pressure. diags Power 58:864 N 27 '23
Stresses in bolts due to setting up. il diags Locomotive 35:77-83+ Jl '24
Stresses in connecting-rods. B. B. Low. Engineering 120:185-6 Ag 14 '25
Stresses in continuous beams determined graphically. I. Duberstein. diags Eng N 94:886-8 My 28 '25
Stresses in flat plates. Locomotive 35:233-5 O '25
Stresses in framed structures. G: A. Hool and W. S. Kinne. 620p McGraw-Hill '23
Stresses in pipes reinforced by steel rings. G. Cook. Engineering 116:477-8 O 12 '23; Abstract. Power 58:669 O 23 '23; Discussion. Engineering 117:87-8 Ja 18 '24
Stresses in rotating discs of hyperbolic profile. B. Hodkinson. Engineering 120:215-17 Ag 21 '25
Tangent modulus and the strength of steel columns in tests. O. H. Basquin. diags U S Bur Stand Tech Pa 263:381-442 '24
Theorie der verfestigung der metalle durch verborgen-elastische spannungen; abstract. E. Heyn. Stahl & Eisen 44:890-1 Jl 24 '24
Torsional strength of steel I-sections. C. R. Young and C. A. Hughes. diags Can Eng 46: 593-7 Je 10 '24; Same. Eng & Contr (Bldgs) 62:469-79 Ag 27 '24; Abstract. Eng N 93:461 S 18 '24; Discussion. 93:882-3, 1047; 94:290 N 27, D 25 '24, F 12 '25
Utilizable capacity of steel members of structure. H: S. Prichard. diag Am Soc C E Pro 51:1735-92 N '25
Will measure stresses in steel frame of Philadelphia building. diag Eng N 93:341 Ag 28 '24
Working stresses in framework of buildings; tentative proposals of Building code committee of the Department of commerce. Eng N 95:215-16 Ag 6 '25
See also Airships—Stresses; Bending moment; Bridge design; Bridges—Load; Bridges—Stresses; Building; Columns; Concrete construction—Design; Deformations (mechanics); Earth pressure; Earthquakes and building; Elastic limit; Elasticity; Fatigue in metals; Girders; Graphic statics; Load (mechanics); Rails—Stresses; Riveting; Roofs; Ships—Strains and stresses; Strain gages; Strength of materials; Structures, Theory of; Torsion; Trusses; Wind pressure

STRASBOURG
L'établissement de bains publics de la ville de Strasbourg. il diags plans Génie Civil 83:609-12 D 22 '23

STRAUS, S. W., & company building, Chicago
Heating, plumbing, and ventilating the Straus building. E. W. Riesbeck. il plans Dom Eng 109:19-24 N 15; 26-30 N 22 '24
New Chicago Straus building combines beauty and utility. il Bankers M 109:1237-40 D '24
Straus building. Arch & Bldg 57:29-30, pl 70-7 Ap '25
Straus building. L. J. Sheridan and W. C. Clark. il Arch Forum 42:225-8, pl 45-7 Ap '25
Straus building, Chicago. A. N. Rebori. il plans Arch Rec 57:385-94, 417-24 My '25

STRAUSS, Lester Wallack, 1879-
Mining engineers of note. por Eng & Min J 118:364 S 6 '24

STRAW
De Vains process for paper from waste fibrous materials. J. F. Clerc. flow sheet il diags Chem & Met Eng 30:259, 262-5 F 18 '24; Same. Paper Tr J 78:43-7 F 21 '24
Interesting straw pulping invention. Paper 35:141-2 N 13 '24
Klein questions validity of Drewsen's sulphite process. A. St Klein. Paper 35:511 Ja 8 '25
Making paper from wheat straw. C. A. Lovell. il Chem & Met Eng 31:459-62 S 22 '24
Pulp from straw or wood. W. Schacht. Paper Tr J 80:62 Je 4 '25
Straw in the chemical industry. W: A. Taylor. Chem & Met Eng 29:1101 D 17 '23
Straw pulp in Canada. J. Strachan. Paper 34: 802 Ag 21 '24
Treatment and disposal of strawboard wastes. H. B. Hommon. Paper Tr J 79:44-6 S 18 '24
See also Flax; Gas, Straw

STRAW blocks
Le solomite, nouveau matériau de construction en paille comprimée. il Génie Civil 86: 588-9 Je 13 '25; Abstract (Solomite; a building material made of compressed straw). Mech Eng 47:748-9 S '25

STRAW board. See Paper board

STRAW gas. See Gas, Straw

STRAW hats
Advertising
Interesting study of newspaper art technique; straw-hat advertising. A. R. King. il Ptr Ink 132:98-9 Ag 13 '25

STRAWBERRY Hill press
Strawberry Hill press. Inland Ptr 72:631, 963-4 Ja, Mr '24

STRAY currents
Control of static and stray currents. C. Haner. diags Chem & Met Eng 31:5-7 Jl 7 '24
Electric strays; abstracts with discussion. F. C: Raphael. Elec R (Lond) 93:911-12 D 14 '23; Electrician 91:668 D 14 '23
Die erde als wechselstromleiter. O: Mayr. diags Elektrotech Zeit 46:1352-5 S 3 '25
Precautions in blasting to avoid danger from stray electric currents. C: S. Hurter. Coal Age 27:284 F 19 '25
Preventing stray currents from detonating explosives. E. E. Jones. diags Coal Age 25: 239 F 14 '24
Protecting oil sidings from stray currents. Ry R 74:502-3 Mr 15 '24
Shaft currents in electric machines. P. L. Alger and H. W. Samson. bibliog il diags Am Inst E E J 42:1325-34 D '23; Same. Gen Elec R 27:188-98 Mr '24; Discussion. Am Inst E E J 43:1081-2 N '24
Überwachung der gleichstrombahnanlagen auf gefährdung durch streüstrome. Elektrotech Zeit 45:1035-6 S 25 '24

STREAM capture
Subterranean stream piracy in the Ozarks. C. L. Dake and J. Bridge. maps Mo U Sch Mines & Met Bul tech ser 7:1-14, pl 1-8 N '23

STREAM flow
Behavior of débris-carrying rivers in flood. F. N. Holmquist. il Eng N 94:362-5 F 26 '25
Discharge from catchment areas in India as affecting the waterways of bridges. G: E. Lillie. Engineering 117:87 Ja 18 '24
Effect of berms on flow in Alamo canal. G. G. Sypes. Eng N 95:433 S 10 '25
Flood flows of New England rivers. C. H. Pierce. il Boston Soc C E J 11:327-75 O '24
Gauging of rivers and tidal currents. M. A. Hogan. il diags Engineering 119:598-600, 631-3 My 15-22 '25
Hydrologic records in Iowa. F. A. Nagler. Am Water Works Assn J 13:7-10 Ja '25
Measurement of river discharge. J. B. Spiegel. Am Water Works Assn J 13:1-6 Ja '25
Measurement of the discharge of the Nile through the sluices of the Assuan dam. H. E. Hurst and D: A. F. Watt. Engineering 117:281 F 29 '24
See also Run-off; Stream measurement; Water flow

STREAM lines. See Hydrodynamics

STREAM measurement
Hydraulic surveys aid design of highway bridges. P. K. Schuyler. il map Eng N 94:312-14 F 19 '25
Stream gaging in North Carolina. T. Saville. Am Water Works Assn J 11:918-23 Jl '24

See also Stream flow

STREET accidents
Community safety council and the police department. T: H. Allen. Nat Safety N 10:11-12 N '24
Public safety. S. J. Williams. W Soc E J 30:149-53 Ap '25
Statistical committee report to the Conference on street and highway safety. Nat Safety N 10:17 D '24
Traffic problems of the large city. G: C. Kelcey. il maps Sci Am 131:236-7+ O '24
Urgent problem of street and highway traffic accidents in the United States. H. Hoover. Econ W n s 28:885-6 D 20 '24; Same. Good Roads 68:58-9 F '25

See also Automobile accidents; Grade crossing accidents; Municipal liability; Street railroads—Accidents

STREET car lighting. See Car lighting

STREET car trailers. See Street cars—Trailers

STREET cars
Car architecture—a new art that influences riding. C: Gordon. il Elec Ry J 66:507-10 S 26 '25
Car designs and their relation to operating conditions. J. Metcalf. Elec Ry J 65:982-3 Je 20 '25
Car orders exceed high level of 1923. Elec Ry J 65:21-6 Ja 3 '25
Car riding increased 28 per cent; new Brooklyn cars increase schedule speed. il plan Elec Ry J 65:1003-7 Je 27 '25
Car weight reduced 40 per cent by rebuilding. il Elec Ry J 66:743 O 24 '25
Car weight, stability and tires. W. E. Ireland. Elec Ry J 62:906 N 24 '23
Development of American street railways. C: De M. Emmons. il Aera 12:1148-66 F '24
Development of the street car. W. H. Mackle. Elec Ry J 64:207-8 Ag 9 '24
Double-truck cars weigh 564 lb. per seat. il plan Elec Ry J 64:49-50 Jl 12 '24
Economic retirement of obsolete cars. W. J. Clardy. il Elec J 22:471-5 O '25
Features of rebuilt one-man, two-man Youngstown car. il Elec Ry J 64:346-7 S 6 '24
Features of Toronto treadle cars. W. R. McRae. Elec Ry J 65:983-4 Je 20 '25
Grand Rapids railway has new car. il Pub Serv Management 38:139-40 My '25; Aera 13:852-3 D '24
Imagination's street cars. G. C. Hecker. il Aera 13:1839-49 Je '25
Improvement in light weight equipment. H. Gass. Elec Ry J 65:938-9 Je 13 '25
Improvements in motor car design. H. Dubath. Elec Ry J 64:251-3 Ag 16 '24
Increasing the speed of car loading at terminals; modification of car entrances. H. S. Williams. plan Elec Ry J 65:191 Ja 31 '25
Larger motor cars for Zürich. il plan Elec Ry J 63:324-5 Mr 1 '24
Light-weight cars make big saving. il Elec Ry J 65:726 My 9 '25
Light-weight double-truck car design. H. H. Adams. plan Elec Ry J 63:543-5 Ap 5 '24
Los Angeles tries the semi-convertible car. il Elec Ry J 66:14 Jl 4 '25
Low-type bogie tramcars for Darwen. il Elec R (Lond) 96:341-2 F 27 '25
Luxury tramcars. il Electrician 95:107 Jl 24 '25
Many innovations in Grand Rapids cars. il diags Elec Ry J 65:721-5, 767-70, 807-10 My 9-23 '25
Medium-weight low-floor cars in Des Moines. il diags Elec Ry J 64:761-2 N 1 '24
Merchandising transportation in Brooklyn. J. T. Grady. il Aera 12:730-4 D '23
Modern cars are essential to the railway industry. J: A. Beeler. Elec Ry J 66:604-6 O 10 '25; Same. Aera 14:747-54 N '25; Discussion. Elec Ry J 66:589-90 O 10 '25
Modernizing electric railway service in Huntington. il plan map Elec Ry J 64:3-5 Jl 5 '24
Modernising electric tramcars. il Elec R (Lond) 97:234-5 Ag 7 '25
Monel metal side sheets stand up in Dayton. il Elec Ry J 65:730 My 9 '25
More cars ordered during 1923 than any year since 1913. Elec Ry J 63:29-36 Ja 5 '24
Near-side cars operated in Ottawa. il plan Elec Ry J 65:497-8 Mr 28 '25
New Atlantic cars have unusual features. il Elec Ry J 65:695-6 My 2 '25
New Chicago multiple-unit cars have automatic exit doors. il diags Elec Ry J 64:837-41 N 15 '24
New England club discusses car weights. Elec Ry J 65:265-6 F 14 '25
New German cars have unique features. il diag Elec Ry J 63:574-5 Ap 12 '24
New materials in car body construction; steel covered laminated wood panels. J: A. Dewhurst. il diags Elec Ry J 64:549-52 O 4 '24
New tramway cars for Cape Town. il Elec R (Lond) 95:436 S 19 '24
1930 model street car. V. W. Berry. Aera 13:1850-3 Je '25; Excerpts. Elec Ry J 65:780 My 16 '25
One-man, two-man cars and train operation. D. L. Fennell. Elec Ry J 63:146 Ja 26 '24
Pay-leave car tried in New York. il Elec Ry J 66:355-6 S 5 '25
Plymetl girder used in construction of new street car body. diag Automotive Ind 51:889 N 20 '24
Remarkable improvements at slight cost. J. A. Baker. Aera 12:986-91 Ja '24
Report of the A. E. R. E. A. committee on unification of car design. diags Elec Ry J 64:639-40; 66:627 O 11 '24, O 10 '25
Rolling stock. J. C. Thirlwall. il Elec Ry J 64:481-6 S 27 '24
Rugged cars handle large crowds. il diags Elec Ry J 63:813-15 My 24 '24
Rush-hour train operation in Baltimore. il diags Elec Ry J 65:577-80 Ap 11 '25
St Louis front-entrance, side-exit cars. il diags plan Elec Ry J 63:283-5 F 23 '24
Silver-tinted electric car in Denver. il Elec Ry J 66:103 Jl 18 '25
Simplicity of arrangement features new P-O cars. R: N. Graham. il Elec Ry J 62:1089-90 D 29 '23
Single-truck one-man two-man car. il Elec Ry J 63:741 My 10 '24
Spanish architecture featured in new Coral Gables car. il diags Elec Ry J 66:547-9 O 3 '25
Standard trolley car proposed for soviet Russia. Elec Ry J 66:822 N 7 '25
Standardizing rolling stock in Pittsburgh. il diags Elec Ry J 66:394-5 S 12 '25
Style in car design. C: Gordon. Elec Ry J 65:936-7; Discussion. 937 Je 13 '25
Tramcar design as dealt with in Europe. il Elec Ry J 64:442-6 S 20 '24
Treadle car operation. G: I. Plummer. Elec Ry J 65:781-2 My 16 '25
Trends in electric railway equipment. G. M. Woods. Elec Ry J 64:9-10 Jl 5 '24
Type of street cars specified in 1930. V. W. Berry. Pub Serv Management 39:24-5 Jl '25
Unification of car design. Elec Ry J 65:701 My 2 '25
West Penn center-door cars successful. il Elec Ry J 62:901-2 N 24 '23
Why an equipment survey? J: A. Beeler. Aera 13:799-802 D '24

See also Car fenders; Car painting; Car seats; Cars, Electric railroad; Electric railroads—Braking; Electric railroads—Rolling stock; Motor cars (street railroad); Street railroads

Bearings
Progress in anti-friction bearings. K. Pforte. diag Elec Ry J 64:774-5 N 1 '24

Equipment
Double folding steps for high platform cars. il Elec Ry J 64:706 O 18 '24

STREET cars—Equipment—*Continued*
Improved stool adopted by Denver lines. G. Benbrook. il Elec Ry J 63:747 My 10 '24

Heating

See Car heating

Inspection

See Car inspection

Lighting

See Car lighting

Lubrication

Convenient method of oiling center plates. diag Elec Ry J 64:892-3 N 22 '24

Noise

Eliminating street car noises. R. W. Bailey. Elec Ry J 64:1045-6 D 20 '24
Noise of operation from tramcars. Elec Ry J 64:452-3 S 20 '24
Reducing noise in car operation. H. S. Williams. Elec Ry J 65:765-6 My 16 '25
Reduction of noise in electric railway cars. H. S. Williams. Elec Ry J 66:443 S 19 '25

One-man cars

Aldermen act against one-man cars in New Haven. Elec Ry J 64:974 D 6 '24
All-electric one-man car in Holland. Elec Ry J 63:585 Ap 12 '24
Anti-one man car ordinance void in New Haven. Aera 13:1520-1 Ap '25
Automatic doors relieve Jim Crow problem. R: Meriwether. il Elec Ry J 65:227 F 7 '25
Automatic rear exit door tried in Washington. il Elec Ry J 64:315 Ag 30 '24
Automatic rear exit doors on Toronto rebuilt cars. diag Elec Ry J 64:799 N 8 '24
Binghamton railway installs new safety devices. F. Hampshire. il diag Elec Ry J 63: 933-4 Je 14 '24
Center-entrance trailers converted to one-man motor cars. il plans Elec Ry J 65:309-10 F 21 '25
Chicago & Joliet one-man cars. il diag Elec Ry J 63:494-5 Mr 29 '24
Emergency valve for one-man cars. diags Elec Ry J 65:62 Ja 10 '25
Equipment and possibilities of one-man cars. T. E. Van Putten and E. Hultman. Elec Ry J 64:926-7 N 29 '24
Fewer accidents with one-man cars. Elec Ry J 63:853 My 31 '24
Largest open cars converted for one-man operation. il Elec Ry J 63:816 My 24 '24
Life guard operated by air. diag Elec Ry J 63:973 Je 21 '24
Light-weight cars for Racine and Kenosha. il diag plan Elec Ry J 64:313-15 Ag 30 '24
London tries new one-man car. il Elec Ry J 65:58 Ja 10 '25
Mirror used on one-man cars to detect smoking. il Elec Ry J 66:194 Ag 8 '25
Ein neuer, rein elektrisch betätigter einmannsicherheitswagen. Becker. il diags Elektrotech Zeit 45:113-17 F 14 '24
One hundred per cent one-man operation proves successful in Dayton. H. C. DeCamp. il Elec Ry J 62:809-12 N 10 '23
One-man car case in Buffalo. Elec Ry J 65: 35-6, 116 Ja 3, 17 '25
One-man car experience. W. H. Boyce. Aera 12:1025-30 Ja '24; Same cond. Elec Ry J 62:975-6 D 8 '23
One-man car laws. Aera 14:227-32 S '25; Excerpts. Elec Ry J 66:213-14 Ag 8 '25
One-man car trial in Berkeley. Elec Ry J 62:1062 D 22 '23
One-man cars in Sweden. diag Elec Ry J 63: 215 F 9 '24
One-man cars in Worcester not a menace. Elec Ry J 65:36 Ja 3 '25
One-man cars safest; Public service commission of state of New York indorses their use by the International railway company in Buffalo. Aera 13:1485-8 Ap '25
One-man cars still operating in Oakland. Elec Ry J 62:985-6 D 8 '23
One-man cars successful in Denver. il Elec Ry J 65:263 F 14 '25
One-man permits revoked at Berkeley. Elec Ry J 63:862 My 31 '24
Peter Witt car rebuilt for one-man operation. A. B. Creelman. il diag Elec Ry J 64:243-4 Ag 16 '24
Public service railway has 92 per cent one-man operation. il Elec Ry J 65:363-5 Mr 7 '25
Rear-entrance, front-exit, one-man car in Toledo. il plan Elec Ry J 64:279 Ag 23 '24
Rear exit expedites passenger movement. il plan Elec Ry J 63:693-5 My 3 '24
Remodeled cars in Trenton. H. E. Krouse. il Elec Ry J 66:94 Jl 18 '25
Results with light-weight interurban cars. J. M. Bosenbury. Elec Ry J 65:149-50 Ja 24 '25
Trend toward one-man cars; bus operation in California by electric railways. Aera 12: 1000-2 Ja '24
25,300-lb. single-truck car seats 46. il diags Elec Ry J 65:877-9 Je 6 '25
Unusual features in new safety cars. il Aera 13:1190-2 F '25

Painting

See Car painting

Repair

Car defect analysis reduces pull-ins in San Antonio. W. W. Holden. Elec Ry J 66: 233-6 Ag 15 '25
Economies in railway maintenance. J: S. Dean. Elec J 21:476-8 O '24
Maintaining car springs in Twin Cities. il diags Elec Ry J 65:325-7 F 28 '25
Maintenance on surface cars. D. J. Locke. Aera 13:1572-4; Discussion. 1574-6 Ap '25
Modern methods an economic factor in car maintenance. H: S. Day. Elec Ry J 64:1046-7 D 20 '24
New platforms added to old cars. il Elec Ry J 63:551 Ap 5 '24
Pull-ins reduced 80 per cent by installing armature dipping and baking facilities and by changing the kind of waste used. il Elec Ry J 65:91-2 Ja 17 '25
Southern properties reduce pull-ins. Elec Ry J 64:91, 733-4; 65:230, 822 Jl 19, O 25 '24, F 7, My 23 '25
Specialized inspection reduces pull-ins on Kansas City railways. Elec Ry J 65:329-32 F 28 '25
Spirit of competition decreases pull-ins. Elec Ry J 65:770 My 16 '25
Systematic inspection reduces failures. C. R. McMahon. Elec Ry J 66:791 O 31 '25
217,728 car-miles per pull-in; well organized system of inspection and repair in New Orleans. R. M. O'Brien. il Elec Ry J 63:969-71 Je 21 '24

See also Street railroads—Fare boxes

Signs

Cars numbered only on windows. il Elec Ry J 65:105 Ja 17 '25
Painting dash signs by spray method. il Elec Ry J 66:211 Ag 8 '25
Silk screen sign printing used in Detroit. H. S. Williams. il Elec Ry J 65:261-2 F 14 '25

Trailers

Cleveland builds three-door trail car. il Elec Ry J 63:772 My 17 '24

Transportation

Shipping cars knocked down. il Aera 12:1898-1901 Je '24

STREET cleaners
Wages of street cleaning department employes. Eng & Contr (R & S) 62:19-20 Jl 2 '24

STREET cleaning
Disposal of street sweepings. Pub Works 54: 352-5 N '23
Magnet cleans road. il Eng & Contr (R & S) 64:1033 N 4 '25
Municipal street cleaning in Philadelphia. C: A. Howland. il map Pub Works 55:299-302, 354-7 O-N '24

STREET cleaning—*Continued*
Municipal street cleaning in Philadelphia. 109p Bur. of municipal research, Philadelphia '24
Pavement cleaning in St Louis and Chicago. Pub Works 55:228-9 Jl '24
Refuse disposal and street cleaning in Baltimore. Pub Works 56:294-5 Ag '25
Street cleaning and sprinkling at St. Paul. Eng & Contr (R & S) 63:268 F 4 '25
Street cleaning in St Paul. Pub Works 55:251 Ag '24
Street cleaning statistics. Pub Works 54:326-8, 330-5, 397; 55:321-3 O, D '23, O '24
Toledo street department's activities. Pub Works 56:275 Ag '25
Use of street-cleaning devices. Pub Works 54: 359-60 N '23

See also Refuse collection; Snow removal

Cost

Street cleaning at Los Angeles; vacuum sweepers. Eng & Contr (R & S) 64:1034-5 N 4 '25
Street cleaning costs in Cincinnati. Eng N 95:383 S 3 '25

STREET cleaning apparatus
Whitworth's road-sweeping machine of 1843. diag Engineering 120:413 O 2 '25

STREET cleaning apparatus, Motor
Motor street sweeper. il Can Eng 46:657 Je 24 '24
Motorization of street cleaning and refuse removal in Chicago. W: J. Galligan. il Munic & Co Eng 67:198-203 O '24; Same. Eng & Contr (R & S) 62:1025-30 N 5 '24; Same cond. Pub Works 55:334-6, 378-80 N-D '24
New York's latest street cleaner. il Pub Works 55:323-4 O '24
Self-propelled road and gulley-washing vehicle. il diags Engineer 138:566 N 14 '24
Street cleaning. D. M. Todd. Sibley J 39:241-2 Ja '25
Street cleaning at Los Angeles; vacuum sweepers. Eng & Contr (R & S) 64:1034-5 N 4 '25
Walter sno-fyter and flusher. il Eng & Contr (R & S) 64:1036 N 4 '25

STREET cleaning departments

Accounting

Accounting methods for street cleaning departments. Eng & Contr (R & S) 62:737-8 O 1 '24

STREET lighting
L'amélioration de l'éclairage public et privé au moyen de réfracteurs en verre. diags Génie Civil 85:236-7 S 13 '24
Asymmetric illumination distribution for ornamental street lighting. L. A. S. Wood. il diags Elec W 83:999-1003 My 17 '24; Same. cond. Eng N 93:974-5 D 11 '24
Best lighted street in the world; Erie Boulevard. Schenectady, N.Y. il Good Roads 68: 87 Mr '25
Business follows light. L. A. S. Wood. Munic & Co Eng 69:153-5 S '25
Business street and white way lighting. Pub Works 54:345-7 N '23
Charing Cross street lighting. il Elec R (Lond) 94:771 My 9 '24
Chicago residence street lighting. J. C. Hail. il plans W Soc E J 30:286-95 Jl '25
Chicago's street-lighting program. Elec W 85:733 Ap 4 '25; Same cond. Eng & Contr (R & S) 63:1006 My 6 '25; Abstract. Pub Works 56:169 My '25
Chicago's $2,000,000 extension to its municipal street lighting system. J. T. Miller. il plans Gen Elec R 28:144-50 Mr '25
City problems discussed by A.S.M.I. at Atlanta. R. Toensfeldt and others. Eng N 91: 850-2 N 22 '23
Columbus street lighting demonstration. F. C. Caldwell. Illum Eng Soc 19:675-8 S '24
Columbus street-lighting survey. il Elec W 85:607-11 Mr 21 '25
Common return for street lighting. H. Richter. plan Elec W 84:831-3 O 18 '24
Conserving assets; street lighting an important gas asset. F. V. Westermair. Am Gas J 122:245-6 Mr 21 '25
Development of street lighting in Croyden. il diags Elec R (Lond) 96:244-6 F 13 '25
D.c. remote control for public lamps. A. C. Johnson. diag Elec R (Lond) 96:647 Ap 24 '25
L'éclairage des voies publiques à Paris par le gaz. H: Laurain. Génie Civil 86:237-8 Mr 7 '25
Electric street lighting in rural areas. E: C. Lennox. Gas J (Lond) 172:38-40; Discussion. 40 O 7 '25
Eleven solutions of a street lighting problem. il plans Illum Eng Soc 18:885-912; Discussion. 912-37 D '23
Features of the new street lighting system at Norwood, Ohio. L. A. S. Wood. il Munic & Co Eng 67:144-6 S '24; Same cond. Pub Works 55:339 N '24
Forty lighting intensities in one street. il Elec W 82:1119-20 D 1 '23
Fremont's new lights solve a traffic problem. il Am Inst E E J 43:158-9 F '24
High-pressure lighting in Paris. G. Reclus. il map Gas J (Lond) 167:379-82 Jl 23 '24
Hollywood's street-lighting installation. O. J. Helvey. il diags Elec W 84:1201-2 D 6 '24
Indianapolis' new street-lighting installation. il Elec W 85:1415 Je 27 '25
Light and traffic. M. Luckiesh. Elec W 83: 278 F 9 '24
Lighting of streets and highways. S. C. Rogers. Eng & Contr (R & S) 60:1177-80 D 5 '23
Lighting offers large profitable load; reports of N.E.L.A. committees. Elec W 85:1355 Je 20 '25
Lighting the streets by gas. Gas J (Lond) sup 3:196 O 22 '24
Making street-lighting business more desirable. A. M. Perry. Elec W 83:958-64 My 10 '24; Discussion. O. F. Haas. 84:894 O 25 '24
Making the rounds of lights by motorcycle. F. J. Koch. il Gas Age 55:609-10+ Ap 25 '25
Maywood street-lighting system; costs. F. Woodmansee. il diags plans Elec W 84:256-61 Ag 9 '24
Modern street lighting. H. T. Harrison. diags Elec R (Lond) 96:993-5 Je 19 '25; Abstract. Electrician 94:710 Je 19 '25; Discussion. Elec R (Lond) 96:1012-13 Je 26 '25; Electrician 94:710, 712 Je 19 '25
Modern street lighting. C. F. Lambert. Munic Eng 65:198-201 N '23
Modernizing a street-lighting system. K. A. Hills. il Elec W 83:1010-11 My 17 '24
Modernizing average-city illumination. E. E. Norman. il diags Elec W 85:447-51 F 28 '25
N.E.L.A. recommended street-lighting practice for cities of 100,000 population or larger. Elec W 86:176 Jl 25 '25
Need for adequate street lighting. O. F. Haas. W Soc E J 30:283-6 Jl '25
New street lighting system at Indianapolis. Munic & Co Eng 68:204-5 Ap '25
One thousand miles of street lighting for St Louis. R. Toensfeldt. il map Elec W 82: 1065-6 N 24 '23
Ornamental street lighting problems of the municipality. R. H. Manahan. il Elec W 85:295-6 F 7 '25
Pageant street lighting. S: G. Hibben. il diag plan Illum Eng Soc 18:938-43; Discussion. 943-8 D '23
Pasadena's new street lighting system. il Eng & Contr (R & S) 64:1013-14 N 4 '25; Same cond. Munic & Co Eng 69:218-19 O '25
Pilot-wire control for street lighting. A. C. Johnson. diag Elec R (Lond) 97:408 S 11 '25
Proposed improved street lighting design for the city of Cleveland, Ohio. W. Harrison and O. F. Haas. il Safety Eng 47:234-7+ My '24
Public lighting by gas. J. S. Thomas. Gas J (Lond) 171:749-52; Discussion. 752-3 S 23 '25
Refractor for street lighting increases illumination. il diag Eng N 92:384 F 28 '24
Residential street lighting; symposium at convention of Illuminating engineers society. Pub Works 56:368 O '25

STREET lighting—*Continued*
Rural street lighting. Elec W 84:126-7 Jl 19 '24
Safety and street lighting. T. P. Brown. il Safety Eng 49:147-53 Ap '25
Some facts about street lighting; report of committee of Pacific coast electrical association. J Elec 52:404-8 Je 1 '24
Some notes on street lighting. P. S. Millar. il Am Inst E E J 43:495-503 Je '24; Discussion. 44:296-7 Mr '25
Street lighting. W. J. Liberty. Gas J (Lond) 165:488-9 F 27 '24; Abstract. Elec R (Lond) 94:492-3 Mr 28 '24
Street lighting. C. S. Shapley. il diags Gas J (Lond) 171:743-8 S 23 '25; Abstract. Elec R (Lond) 97:549-50 O 2 '25
Street lighting—a municipal problem; abstract. R. D. Whitney. Am Inst E E J 43:1148 D '24; Discussion. 44:423-4 Ap '25
Street lighting and traffic accidents. Eng & Contr (R & S) 61:510 Mr 5 '24
Street lighting and visibility. E: J. Stewart. Munic & Co Eng 67:189-91 O '24; Abstract, with discussion. Gas J (Lond) 168:36-7 O 1 '24
Street-lighting circuit construction. diags Elec W 84:121 Jl 19 '24
Street lighting in its relation to highway safety. C. A. B. Halvorson, jr. and S. C. Rogers. il Safety Eng 47:283-9 Je '24; Same cond. Nat Safety N 10:35-6 S '24
Street lighting in the small city. T. P. Brown. il Am Arch 126:103-7 Jl 30 '24
Street lighting in the United States. Pub Works 56:18 Ja '25
Street lighting switches and insulating transformers. diags Elec W 84:74 Jl 12 '24
Street-lighting transformers. diags Elec W 84:20 Jl 5 '24
Street series lamps of larger size are gradually displacing those of smaller size. N E L A Bul 12:52 Ja '25
Study of street lighting, systems with recommendations. Munic & Co Eng 67:111-15 S '24
Survey of street lighting practice in the United States. J. F. Meyer. Illum Eng Soc 20:20-8 Ja '25; Same abr. Munic & Co Eng 67:252-6 N '24; Discussion. Illum Eng Soc 20:29-34 Ja '25
Verkehrsbeleuchtung. J. Schaer. il diags Elektrotech Zeit 45:641-6, 684-8 Je 19-26 '24
Year's progress in illumination 1923-1924. Illum Eng Soc 19:732-44 O '24
Year's progress in illumination. Illum Eng Soc 20:710-23 S '25

See also Boardwalks—Lighting; Electric lighting; *also* Institution of public lighting engineers and superintendents

Cost

Cost of adequate street lighting. L. A. S. Wood. Munic Eng 65:265-7 D '23
Street lighting costs. Eng & Contr (R & S) 61:1007 My 7 '24

Law

Model state law for street and highway lighting. Munic & Co Eng 67:191-7 O '24

Standards

Standards of illumination for streets. Elec W 84:171 Jl 26 '24

Testing

Some results of the Columbus street lighting tests. F. C. Caldwell. Illum Eng Soc 20: 35-47; Discussion. 47-59 Ja '25

STREET lighting fixtures
Asymmetric street lighting reduces waste. L. A. S. Woods. il Elec W 83:999-1003 My 17 '24; Same cond. Eng N 93:974-5 D 11 '24
Chicago's $2,000,000 extension to its municipal street lighting system. J. T. Miller. il plans Gen Elec R 28:144-50 Mr '25
Device reduces upkeep of street-lighting units. R. H. Ryan. il diags Elec W 83:531-2 Mr 15 '24
Illuminated street guides in University City, Missouri. T. Croft. il Munic & Co Eng 67: 43-5 Jl '24; Same cond. Elec W 84:472-3 S 6 '24; Abstract. Pub Works 55:245-6 Ag '24
Lamp support, fixtures and sockets. diags Elec W 84:174-5 Jl 26 '24
Making concrete light posts for St. Louis. il Concrete 27:42 S '25
Modernizing average-city illumination. E. E. Norman. il diags Elec W 85:447-51 F 28 '25
New ornamental streethoods. il Munic & Co Eng 69:5 Jl '25
Some notes on street lighting. P. S. Millar. il Am Inst E E J 43:495-503 Je '24; Discussion. 44:296-7 Mr '25
Street lighting glassware. F. Benford. il diags Gen Elec R 27:304-12 My '24
Unusual lighting installations. A. L. Spring. il Elec W 85:767-9 Ap 11 '25
What's new in street-lighting. il N E L A Bul 11:560-2 S '24

STREET oiling

Cost

Cost of street oiling at Waltham, Mass. G: C. Brehm. Eng & Contr (R & S) 64:981 N 4 '25
Maintenance of macadamized streets. O. E. Stanley. il Eng & Contr (R & S) 64:281-4 Ag 5 '25

STREET openings
Backfilling trenches and restoring street surfaces. S. C. Corson. Munic & Co Eng 67: 170-3 O '24; Excerpt. Eng & Contr (R & S) 62:1248-9 D 3 '24
By-product of cooperation. il Pub Serv Management 39:140 N '25
Control of street openings. N E Water Works Assn J 38:130-4 Je '24
Pavement cutting permits protect city against loss. Eng N 95:96-7 Jl 16 '25
Practice of various cities with respect to pavement openings. D. S. MacBride. Munic & Co Eng 67:291-5 D '24; Same abr. Eng & Contr (R & S) 62:727-30 O 1 '24
Sewer and water pipe in same trench. Eng & Contr (W W) 62:559-60 S 10 '24
Trench cuts in pavements; city engineers describe the methods employed in their respective cities. il Pub Works 56:35-42 F '25

See also Pavements—Cutting

STREET railroads
All cities look alike when street cars cease to run. J. B. Wootan. il Pub Serv Management 38:10-12 Ja '25
Better transportation through established agencies. L. S. Storrs. Elec Ry J 66:555-6 O 3 '25
City transportation and street congestion. C. E. Smith. Elec Ry J 64:960-3 D 6 '24
Continued improvement expected in electric railway situation. Elec Ry J 65:533-6 Ap 4 '25
Economic law rules the roost; an interview with Peter Witt. Aera 12:1891-3 Je '24
Electric railway—an indispensable service. L. S. Storrs. Elec Ry J 65:783-4 My 16 '25
Electric railway company in the future will be a transportation company in the broadest sense. F. R. Coates. Aera 13:1543-8 Ap '25; Same cond. Pub Serv Management 38:101-2 Ap '25
Electric railways—do we need them? B. C. Cobb. Aera 13:133-41 S '24; Excerpts. Elec Ry J 64:321 Ag 30 '24
Our industry from the viewpoint of the manufacturer. N. G. Symonds. Aera 14:276-9 S '25; Same cond. Elec Ry J 66:289-90 Ag 22 '25
Present and future of the electric railway industry. B. I. Budd. Elec J 22:465-6 O '25
Public needs complete service. G. E. Tripp. Aera 13:1336-41 Mr '25; Same cond. Bus Transportation 4:144-5 Mr '25
Realty values jump when street car service comes. L. F. Eppich. Aera 13:686-8 N '24; Same. Eng & Contr (Ry) 63:605-6 Mr 18 '25

STREET railroads—*Continued*
Report of the A. E. R. A. committee on unification and co-ordination of all forms of local transportation. Elec Ry J 64:594-6 O 11 '24; Same. Aera 13:357-62 O '24
Street railway transportation. F: W. Doolittle. Special Lib 16:51-3 F '25
Surface car transportation in the smaller cities. F. R. Coates. il Elec Ry J 66:468-72 S 26 '25
Taxicab, bus and railway co-ordination. G: H. Davis. Elec Ry J 64:54-5 Jl 12 '24
Track removal will not relieve congestion; discussion. Elec Ry J 63:857-8; 64:207 My 31, Ag 9 '24
Transportation fundamentals. L. S. Storrs. Aera 13:951-6 Ja '25
Transportation undergoing readjustment. H. G. Taylor. Aera 14:762-9 N '25; Same cond. Elec Ry J 66:613-14 O 10 '25
Urban transportation, rapid transit and surface lines. C: V. Weston. W Soc E J 30: 171-6 Ap '25
What does the future hold? J: W. Colton. Aera 13:1978-84 Jl '25
When street cars cut their teeth. C. K. Lee. Aera 14:429-33 O '25
Working of economic laws, the superior efficiency in use of the street, intelligent sales effort and good use of publicity will bring electric railways back into their own. H. G. Taylor. Elec Ry J 63:966-8 Je 21 '24

See also Electric railroads; Elevated railroads; Street cars; Subways; *also* International street and interurban railway association; International tramway, light railway and bus association; *also* subdivision Rapid transit under names of cities

Accidents

Accident and traffic problems discussed at Boston meeting of the New England street railway club. Elec Ry J 66:829-30 N 7 '25
Accident prevention accomplishments in Nashville. Elec Ry J 66:396 S 12 '25
Accidents can be diminished through more scientific selection of employes. W. H. Sefton. Aera 13:1720-5 My '25
Accidents decrease in St Louis. Elec Ry J 65:928 Je 13 '25
Accidents reduced 26.7 per cent at Providence. Elec Ry J 66:48 Jl 11 '25
Automobile hazards. J. W. Giltner. Elec Ry J 66:695-6 O 17 '25
Automobile hazards. C: B. Hardin; H. K. Bennett. Elec Ry J 64:695-6 O 18 '24
Continued accident reduction in Charleston. Elec Ry J 66:432 S 19 '25
Fewer accidents in 1923. il Aera 12:1384-90 Mr '24
Good accident record in Columbus. Elec Ry J 65:377 Mr 7 '25
Inspection schedule reduces accidents. Elec Ry J 64:1079 D 27 '24
Most collisions due to inattention. L. S. Storrs. Aera 12:1702-8 My '24; Excerpts. Nat Safety N 10:33-4 S '24
Number of accident witnesses in Los Angeles increased. Elec Ry J 66:541 O 3 '25
Only one accident in eight due to negligence. Elec Ry J 66:363 S 5 '25
Reasons for increases in accident claims. J: J. Reynolds. Elec Ry J 63:936-7 Je 14 '24
Report of the T. & T. A. committee on accident prevention. Elec Ry J 64:653-5 O 11 '24
Runaway train in Sydney. il Elec Ry J 65: 850 My 30 '25
600,000 car miles—no accident. J: J. Connors. Nat Safety N 12:33 N '25
Traffic regulation aids accident prevention. R. W. Emerson. Elec Ry J 66:710 O 17 '25

See also Electric railroads—Accidents; Street railroads—Claims

Accounting

Accountant should point the way. F. J. Gannon. Elec Ry J 66:201-2 Ag 8 '25
Accounting as related to publicity and administration. H. A. Dunn. Elec Ry J 64:701-2 O 18 '24
Accounting for stores. R. A. Weston. Elec Ry J 65:217-20 F 7 '25
Accounting practice. W. L. Davis. Elec Ry J 64:515-18, 544-7, 767-70 S 27-O 4, N 1 '24
Balance sheets. C: B. Couchman. Elec Ry J 64:702-3 O 18 '24
Budget control of materials and supplies for public utilities. W: P. McArdle. Aera 13: 439-51 O '24
Budgetary control in cost accounting. C: R. Stevenson. Elec Ry J 66:701-2 O 17 '25
Budgeting overhead line maintenance. F. V. Skelley. Elec Ry J 65:510 Mr 28 '25
Home-made products cost determination. H. E. Jordan. Elec Ry J 66:806-7 O 31 '25
Improved account classification reduces maintenance costs. H. Bigelow. Elec Ry J 66: 85 Jl 18 '25
Make the figures talk. L. E. Harris. Aera 14: 364-9 O '25; Same cond. Elec Ry J 66:702-3 O 17 '25
Need for greater uniformity. E. H. Reed. Aera 12:801-4 D '23
Work train employees share in profits. il Elec Ry J 64:721-4 O 25 '24

See also American electric railway accountants' association

Advertising

Advertising campaign that is conducted by the workers. J: T. Bartlett. Ptr Ink M 8:108+ F '24
Advertising isn't patent medicine. L. St Clair. Aera 13:70-8 Ag '24
Atlanta is selling its service. Elec Ry J 66: 351 S 5 '25
Being human and showing it. W. H. Boyce. il Aera 14:73-82 Ag '25
Changing knockers into boosters; publicity campaign of Georgia railway & power company. Elec Ry J 64:800 N 8 '24
Cold soup. J: S. Bleecker. Elec Ry J 64:662 O 11 '24
Dallas adds riders by advertising. C. J. Crampton. Aera 14:39-47 Ag '25
Do your advertising by system. L. Grant. Aera 14:15-33 Ag '25
Don't lose what you've won! L. St Clair. Aera 12:1214-19 F '24
Don't worry campaign in Grand Rapids. il Elec Ry J 66:163-4 Ag 1 '25
Employes run Denver tramway company's advertising. J: T. Bartlett. Aera 12:1485-8 Ap '24
Getting the autoists' business. L. St Clair. Aera 13:991-9 Ja '25
Getting the crossword fan. W: Dings. Aera 13:1489-95 Ap '25
Good ad writing cuts waste. W. H. Hodge. Aera 14:51-6 Ag '25
Importance of railway told in Seattle advertisements. il Elec Ry J 65:1028 Je 27 '25
Increasing passenger traffic by advertising. F. L. Blanchard. Elec Ry J 65:985-6 Je 20 '25
It can be done. W. H. Sawyer. Elec Ry J 64: 660-1 O 11 '24
Lay your money on the counter. W. P. Strandborg. Elec Ry J 64:772 N 1 '24
Public reacts favorably to advertising campaign. Elec Ry J 64:161-2 Ag 2 '24
Report of A.E.R.A. committee on publicity. Elec Ry J 66:593-4 O 10 '25
Ride salesmanship. W. Jackson. Elec Ry J 64:528-32 S 27 '24
Sell women attractiveness. L. St Clair. Aera 14:465-7 O '25
Short sentences are best. L. St Clair. Aera 12: 1947-50 Je '24
Signs tell strangers how to reach their destinations by railway. W. H. Boyce. il Elec Ry J 63:653 Ap 26 '24
Snappy ads win business. H. Bigelow. Aera 12:1209-13 F '24
Tell Mrs Dooley about your cars. L. St Clair. il Aera 12:1756-60 My '24
Telling the railway story to the public in East St Louis. Elec Ry J 63:297-8 F 23 '24
Traction Tom makes his bow. L. St Clair Aera 12:1540-4 Ap '24
White cars boost Beaumont service. il Aera 13:148-51 S '24

STREET railroads—*Continued*

Buildings and structures

See Car houses; Street railroads—Shelters; Street railroads—Terminals

Claims

Annual meeting of American electric railway claims association, Atlantic City, Oct. 6-10. Elec Ry J 64:683-96 O 18 '24

Claim agents should beware of self-satisfaction. J. H. Handlon. Aera 12:1202-3 F '24

Claims and safety. J. H. Handlon. il Elec Ry J 64:519-22 S 27 '24

Increasing the number of witnesses per accident. J. H. Handlon. Elec Ry J 66:687-8 O 17 '25

Injuries and damages small in Detroit. Elec Ry J 66:124 Jl 25 '25

Investigation of accident cases and their settlement or trial. W. H. Sefton. Elec Ry J 66:59-60 Jl 11 '25

Keeping track of plaintiffs and witnesses. R. E. Smith. Elec Ry J 66:694 O 17 '25

Outside factors affect damage claims. F. W. Stockmar. Elec Ry J 64:96-7 Jl 19 '24

Quality counts in claims work. J. S. Kubu. Aera 12:1532-6 Ap '24

Receiving and disposing of claims. J. H. Handlon. Elec Ry J 64:208 Ag 9 '24

Recording of claims costs. W: G. Marshall. Elec Ry J 66:696 O 17 '25

This railway collects damages; Wisconsin public service company, Green Bay, Wis. W. T. Bie. Aera 12:1712-20 My '24; Same cond. Elec Ry J 63:742-3 My 10 '24

Training of men as investigators and adjusters. E. H. Craddock. Elec Ry J 66:291 Ag 22 '25

Cost of maintenance

Energy saving reduces maintenance costs in St Louis. A. M. Brinkman. Elec Ry J 66: 87-90 Jl 18 '25

Improved account classification reduces maintenance costs. H. Bigelow. Elec Ry J 66: 85 Jl 18 '25

Modern practices make big cut in maintenance costs. W. C. Bolt. Aera 13:982-90 Ja '25

Reducing maintenance costs. W. C. Bolt. Elec Ry J 64:808-10 N 8 '24

Cost of operation

Cost of carrying weight on cars. Elec Ry J 64:122 Jl 26 '24

Municipal tramways and motor omnibuses; abstracts. A. R. Fearnley. Elec R (Lond) 97:452 S 18 '25; Electrician 95:325-6 S 18 '25; Discussion. Elec R (Lond) 97:517-18 S 25 '25; Electrician 95:326 S 18 '25

Synchronized traffic control is costly to street railway. L. D. Bale. il plan Aera 14:163-9 S '25

10.27 cents per passenger is cost on Staten Island lines. Elec Ry J 64:862 N 15 '24

Costs

Electric railway costs and fares in 1924. A. S. Richey. Elec Ry J 65:15-17 Ja 3 '25

Electric railway costs approaching stabilized conditions. Elec Ry J 63:18-20 Ja 5 '24

Wheel service compared; mileage and cost per thousand car-miles. Elec Ry J 65:759-60 My 16 '25

Crossings

Changing gage on railroad grade crossings. W. L. Whitlock. il Elec Ry J 63:771-2 My 17 '24; Same. Eng & Contr (Ry) 62:1313-14 D 17 '24

Reducing steam road crossing failures in Houston, Tex. W. H. Taylor, jr. diags Elec Ry J 66:231-2 Ag 15 '25

Curves and turnouts

Third track turnouts save nine minutes running time. il map Elec Ry J 63:539-40 Ap 5 '24

Employees

Accidents can be diminished through more scientific selection of employes. W. H. Sefton. Aera 13:1720-5 My '25

Ambitious young men are sought by electric railways. Aera 13:2051-5 Jl '25

Annual mileage output per platform man. K. Norregaard. Elec Ry J 64:775-6 N 1 '24

Arbitration problems. L. Vickers. Aera 13: 1296-1304 Mr '25

Arbitrations have favored neither party. Elec Ry J 64:992 D 13 '24

Attracting good men to the industry. W. H. Sawyer. Elec Ry J 63:700-1 My 3 '24

Better relations between management and employees in Pittsburgh. Aera 14:706-14 N '25; Excerpts. Elec Ry J 66:683-4 O 17 '25

Boston begins educational program. Elec Ry J 65:256-7 F 14 '25

Boston L has new training school. il Elec Ry J 65:373-5 Mr 7 '25

Building good employee relations in Kansas City. charts Elec Ry J 63:63-6 Ja 12 '24

Capital traction has 25 per cent 10-year men. Elec Ry J 65:258 F 14 '25

Careful engagement reduces turnover. Elec Ry J 64:763-6 N 1 '24

Cleanliness counts! L. St Clair. Aera 13: 1533-7 Ap '25

Cleveland railway open shop. Aera 13:1858-61 Je '25; Elec Ry J 65:743, 785 My 9-16 '25

Commission's view of platform men. A. L. McDonald. Elec Ry J 63:660-1 Ap 26 '24

Courtesy. J: J. Reynolds. Aera 12:2058-61 Jl '24

Education for the North Shore line employee. C. G. Goodsell. Elec Ry J 63:548-9 Ap 5 '24

Education in Milwaukee. Elec Ry J 62:1094 D 29 '23

Educational program in Boston. Elec Ry J 64:770 N 1 '24

Educational work in the electric railway industry. E: Dana. Elec J 22:475-7 O '25

Employes run Denver tramway company's advertising. J: T. Bartlett. Aera 12:1485-8 Ap '24

Essentials of discipline. F. S. Macy. Elec Ry J 65:148-9 Ja 24 '25

Every Key system man works for safety and efficiency. H. K. Townsend. Aera 13:670-2 N '24

Examining and teaching platform men. il Elec Ry J 65:657-9 Ap 25 '25

Helping the other fellow. C. E. Morgan. Aera 13:1118-20 F '25

International local in Detroit seek union recognition through court action. Elec Ry J 63:854-5 My 31 '24

Is educational work worth while? E: Dana. Elec Ry J 66:58-9 Jl 11 '25

Le laboratoire de psychotechnique de la Société des Transports en commun de la Région parisienne; contrôle des aptitudes nécessaires aux machinistes. P. Calfas. il Génie Civil 86:53-7 Ja 17 '25; Same (Paris motormen undergo modern psychological tests). Aera 13:1627-35 My '25

Maintenance of contact with employes of the Philadelphia rapid transit company. A. A. Mitten. Ann Am Acad 119:108-14 My '25

Modernizing employment methods. A. J. Snow. il Elec Ry J 64:387-9 S 13 '24

Need for study of trainmen's psychology. G: De Haan. Elec Ry J 66:133 Jl 25 '25

New conception of the job. S. F. Fannon. Elec Ry J 64:1044-5 D 20 '24

Non-union pledge void; circuit court rules against law forbidding employers to exact non-union pledges. Elec Ry J 62:949 D 1 '23

Peace in Pittsburgh. Elec Ry J 63:787 My 17 '24

Philadelphia rapid transit cooperative plan—a critical survey. D. D. Kennedy. Ind Management 68:367-72 D '24

Platform men pass civil service tests. Elec Ry J 62:971-4 D 8 '23

Promoting better relationship between employee and employer; accomplishments recounted in Coffin prize presentations. il Elec Ry J 66:823-7 N 7 '25

Putting over an educational program. E: Dana. Elec Ry J 66:603-4 O 10 '25

STREET railroads—Employees—*Continued*
Recruiting transportation employees. D. Prins. Elec Ry J 63:990-1 Je 21 '24
Re-examination of trainmen. W: L: Weber. Elec Ry J 66:327-8 Ag 29 '25
Report of the A.E.R.A. committee on education. Elec Ry J 64:599-601 O 11 '24; Aera 13:431-8 O '24
Salesmanship; qualities street railway conductors and motormen should develop. G: B. Anderson. Aera 12:1667-73 My '24
Selling the job to the carman. M. McCants. Aera 13:1289-95 Mr '25
Service and the man who sells it. F. G. Buffe. Elec Ry J 63:986-7 Je 21 '24
Sickness and accidents or health and safety. W. M. Holtz. Elec Ry J 66:646-7 O 10 '25
Some useful elements of the street railway philosophy. W. E. Wood. Elec Ry J 62:896-8 N 24 '23
Street car courtesy in Washington. C. M. Sharpe. Elec Ry J 64:158 Ag 2 '24
Street railway barnacles. Aera 14:184-7, 383-9 S-O '25
Street railway, Memphis, Tennessee; labor agreement. Monthly Labor R 21:341-2 Ag '25
Street railways and busses, Trentpn, N.J.; labor agreement. Monthly Labor R 20:1275-6 Je '25
Street railways, Boston; arbitration. Monthly Labor R 18:110-13; 20:115-19 Ja '24, Ja '25
Street railways, Canton, Ohio and Peoria, Ill.; labor agreements. Monthly Labor R 21:758-60 O '25
Street railways; Cincinnati. Monthly Labor R 18:350-1 F '24
Street railways, Detroit. Monthly Labor R 17: 1123-8 N '23
Street railways, Providence; arbitrators' report. Monthly Labor R 21:562-5 S '25
Street railways, San Antonio, Texas; labor agreement. Monthly Labor R 20:571-2 Mr '25
Street railways—Worcester and Springfield, Mass.; arbitration award. Monthly Labor R 19:1085-9 N '24
Strike in Scranton. Elec Ry J 63:558, 591 Ap 5-12 '24
Strike on I.T.S. settled. Elec Ry J 64:1053 D 20 '24
Supervisors can make a railway popular or unpopular. W: W. Holden. Aera 12:1663-6 My '24
Tests for motormen and bus drivers. L. Bacqueyrisse. Elec Ry J 64:280-5 Ag 23 '24
Track maintenance instruction. Elec Ry J 64: 13 Jl 5 '24
Training carmen to give better service. il Elec Ry J 64:157-8 Ag 2 '24
Training of men as investigators and adjusters. E. H. Craddock. Elec Ry J 66:291 Ag 22 '25
Twin City starts thrift fund. Elec Ry J 63: 536 Ap 5 '24
United for safety, Baltimore's new trolley topic. G: E. Wallis. il Nat Safety N 11: 17-20 My '25
What the trolleyman's job means to an earnest conscientious worker. M. J. Lyden. Aera 12: 1362-5 Mr '24
Work train employees share in profits. il Elec Ry J 64:721-4 O 25 '24
Your chance to succeed. J: H: Boyce. Aera 12: 1902-4 Je '24

See also Electric railroads—Employees; Street railroads—Wages

Equipment and supplies

Detroit conducts test laboratory. il Elec Ry J 63:1015-18 Je 28 '24
Emergency tool boxes at strategic points to relieve blockades. il Elec Ry J 65:104 Ja 17 '25
Keeping track machinery on the job. il chart Elec Ry J 63:463-9 Mr 22 '24
Many uses to which special handling equipment can be put in electric railway work. il Elec Ry J 63:455-62 Mr 22 '24
What the manufacturer has done for the industry. E. P. Waller. Aera 12:2067-71 Jl '24

See also Electric railroads—Equipment and supplies; Street cars; Street railroads—Stores systems; Street railroads—Surplus materials

Exhibitions

This year's exhibits a half-million dollar show. Elec Ry J 64:738-41 O 25 '24
United railways and electric company gets first prize for best demonstration of a business at Baltimore better homes exposition. il Aera 12:1877-84 Je '24

Fare boxes

Fare box repair cage in Houston. diag Elec Ry J 66:99 Jl 18 '25
Lock for fare boxes. Elec Ry J 65:860 My 30 '25
Special corps repairs fare boxes. Elec Ry J 65:99-100 Ja 17 '25

Fare collection

Beaver Valley system eliminates zone checks and trusts to honesty of patrons to pay what is due. H. O. Allison. Aera 12:1932-4 Je '24
Gypping the company. G. T. Geer. Aera 13: 1993-5 Jl '25
Honor system of fare collection speeds passenger movement. H. O. Allison. Elec Ry J 64:206 Ag 9 '24
Illuminating the fare box. il Elec Ry J 65:737 My 9 '25
Lighting the fare box on one-man cars. il Elec Ry J 62:1015 D 15 '23
Using sign lights to illuminate fare box. il Elec Ry J 65:845 My 30 '25
Zone check system used on P.-O. one-man interurban lines. H. H. Best. il Elec Ry J 65:143-4 Ja 24 '25

See also Change-making machines; Street railroads—Tickets

Fares

Bargain sale of passes proves profitable on the Beaver Valley traction company. Elec Ry J 63:170 F 2 '24
Beaver Valley traction introduces Sunday pass. Elec Ry J 65:889 Je 6 '25
Belt Line fare decision significant. Elec Ry J 65:989 Je 20 '25
Business men back Mr Mitten; say present fare is essential to future development of property. Elec Ry J 66:175-6 Ag 1 '25
Business of selling rides. W. Jackson. Elec Ry J 65:980-2; Discussion. 979 Je 20 '25
Chicago surface lines points out differences between Chicago and Philadelphia fares in an effort to correct false impression created by editorial comment. Elec Ry J 64:1052 D 20 '24
Cincinnati paying for mistakes. Elec Ry J 63:823 My 24 '24
City fares in northern and central Europe. A. Winter. Elec Ry J 64:924-6 N 29 '24
Commission has right over fares. Elec Ry J 64:857 N 15 '24
Daily quotation on street car fares in Germany. Elec Ry J 63:216 F 9 '24
Economies in operation proposed for railway in Colorado Springs. maps Elec Ry J 65:885-8 Je 6 '25
Eight-cent fare at Denver upheld by U. S. district court. Elec Ry J 64:1056-7 D 20 '24
Eight cents allowed in Kingston. Elec Ry J 63:946 Je 14 '24
Eight cents for Twin Cities. Elec Ry J 66:65-6, 101, 138, 176-7, 295-6 Jl 11-Ag 1, 22 '25
Eight cents in Buffalo. Elec Ry J 65:383 Mr 7 '25
Eight cents in Des Moines. Elec Ry J 64:566 O 4 '24
Electric railway costs and fares in 1924. A. S. Richey. Elec Ry J 65:15-17 Ja 3 '25
Electric railway statistics in southern states compared. Elec Ry J 65:655 Ap 25 '25
Fare changes stimulate riding in Pittsburgh. W. Jackson. maps Elec Ry J 66:317-20 Ag 29 '25

STREET railroads—Fares—*Continued*
Fare cut denied to Connecticut cities. Elec Ry J 64:255-6 Ag 16 '24
Fare hearing at Philadelphia. Elec Ry J 66: 253-4, 335, 371-2 Ag 15, 29-S 5 '25
Fare increase for Queens county road. Elec Ry J 63:1028-30 Je 28 '24
Fare plea makes progress in Atlanta. Elec Ry J 62:1104-5; 63:87-8 D 29 '23, Ja 12 '24
Fare question in Dallas. Elec Ry J 66:334-5 Ag 29 '25
Fares cut in Des Moines. Elec Ry J 62:1104 D 29 '23
Fares in cities of more than 25,000 population; list of 288 cities. J. A. Millon. Aera 12:1837-66 Je '24
Fares in New Jersey. Aera 12:1583-4 Ap '24
Fares to be advanced in Boston. Elec Ry J 64:745-6 O 25 '24
Fares up in Baltimore. Elec Ry J 63:862-3 My 31 '24
Fight likely in Oakland for higher fare. Elec Ry J 66:65, 104 Jl 11-18 '25
Final hearings held on rates of fare in Minneapolis and St Paul. Elec Ry J 65:950 Je 13 '25
Five-cent fare would spell ruin in Washington. Elec Ry J 63:397 Mr 8 '24
Getting an adequate fare. J: S. Allen. Aera 13:1282-8 Mr '25
Higher fare upheld in Philadelphia. Elec Ry J 64:1009 D 13 '24
Higher maximum fare recommended for Cleveland. Elec Ry J 66:28 Jl 4 '25
Jersey fare unchanged. Elec Ry J 63:226 F 9 '24
Kinds and rates of fare in Europe. Elec Ry J 64:453-4 S 20 '24
Nine cents cash in Cincinnati. Elec Ry J 65: 945 Je 13 '25
9,000 pass users in Fort Wayne. Elec Ry J 63:517 Mr 29 '24
Pass increases earnings 6 per cent in Santa Barbara. W. E. Erwin. Elec Ry J 63:206 F 9 '24
Philadelphia fare upheld. Elec Ry J 63:396 Mr 8 '24
P.R.T. gets increase. Elec Ry J 64:400-1 S 13 '24
Pittsburgh's passes for Sundays and holidays. W. Jackson. Aera 13:1661-4 My '25
Popularizing street car service in Pittsburgh by Sunday and holiday passes. il Elec Ry J 65:366-7 Mr 7 '25
Reduced fares without special tickets. Elec Ry J 65:416 Mr 14 '25
Revenue and riding increased by Sunday pass. il Elec Ry J 66:200 Ag 8 '25
Saginaw votes a fare increase. Aera 14:544-6 O '25
Service versus rate of fare. W. H. Sawyer. Elec J 22:463-4 O '25
Ten cents cash in Omaha. Elec Ry J 65:989 Je 20 '25
Tramway passes; abstracts. A. D. Willoughby. Elec R (Lond) 95:520-1 O 3 '24; Electrician 93:377 O 3 '24
U.S. Supreme court sustains street railway company. Aera 13:2037-41 Jl '25
Weekly pass in new form. il Elec Ry J 66: 131 Jl 25 '25
What is a casual rider? W. Jackson. Elec Ry J 64:347-8 S 6 '24
Why fares differ in various places. J. W. Welsh. Aera 12:1690-5 My '24; Same. Elec Ry J 63:698-700 My 3 '24

See also Street railroads—Transfers

Finance

Arbitrators specify Detroit payments to secure the entrance of interurban cars into the city. Elec Ry J 63:67-9 Ja 12 '24
Atlanta improvements to cost $9,000,000. Elec Ry J 65:55-7 Ja 10 '25
Baltimore holding up. Elec Ry J 66:35-6 Jl 4 '25
Bargain at $162,834,584; Chicago engineers hold this price reasonable as amount to be paid by city for surface lines. Elec Ry J 65:201-2 Ja 31 '25
Brooklyn City income off. Elec Ry J 64:464; 65:568 S 20 '24, O 3 '25
Budget system effective on the Kentucky traction and terminal company. Elec Ry J 63:70-1 Ja 12 '24
Capital traction has successful year in 1923. Elec Ry J 64:901-2 N 22 '24
Census figures for nine more states. Elec Ry J 62:939-40 D 1 '23
Chicago railways company and Chicago City railway company, annual reports, year ended Jan. 31, 1925. Comm & Fin Chr 120: 2141 Ap 25 '25
Cincinnati plan sanctioned. Elec Ry J 66:449-50 S 19 '25
Comment on D.U.R. report. Elec Ry J 65:524-5 Mr 28 '25
Committee reports at Montreal. Elec Ry J 62: 952 D 1 '23
Daily statement of earnings and expenses kept on Eastern Massachusetts street railway. Elec Ry J 63:580 Ap 12 '24
Delaware & Hudson reports. Elec Ry J 63: 675 Ap 26 '24
Dividends on common expected in Louisville. Elec Ry J 65:637-8 Ap 18 '25
Duluth valuation fixed at $5,009,510. Elec Ry J 65:164-5 Ja 24 '25
Earnings keep up in Newport News company. Elec Ry J 65:790 My 16 '25
Economist sees new era ahead for electric railways. R: T. Ely. Elec Ry J 63:380-4 Mr 8 '24
Effect of fare changes in Seattle on passenger traffic. Elec Ry J 62:825 N 10 '23
$863,646 net for Detroit United. Elec Ry J 63: 910 Je 7 '24
$89,187 net income in Toronto. Elec Ry J 66:716-17 O 17 '25
Electric railway financing; abstracts. R. P. Stevens. Elec Ry J 66:609-10 O 10 '25; Elec J 22:464-5 O '25
Electric railway results in 1924. E. J. Murphy. Aera 13:1611-26 My '25; Same cond. Elec Ry J 65:709-12 My 2 '25
Electric railway situation to-day. W. H. Sawyer. Elec Ry J 63:663-4 Ap 26 '24
Everett results disappointing; $14,780 deficit in 1923. Elec Ry J 63:555 Ap 5 '24
Fares must meet costs; decision of New York transit commission increasing fare on New York & Queens county system one cent. J. F. Bickmore. Aera 13:10-14 Ag '24
$54,965 balance at Indianapolis. Elec Ry J 65:1031 Je 27 '25
$51,761,348 value accepted for St Louis property. Elec Ry J 63:484 Mr 22 '24
$557,243 profit at Seattle. Elec Ry J 65:908-9 Je 6 '25
Financial readjustment planned at Columbus, Ohio. Elec Ry J 65:42-3 Ja 3 '25
Financing of electric railways. J. P. Harris. Elec Ry J 64:619-20 O 11 '24
Financing of street railways. A. G. Hoyt. Elec Ry J 64:617-18 O 11 '24
Financing rapid transit facilities. C. E. Smith. Elec Ry J 65:495-7 Mr 28 '25
Good showing by Eastern Massachusetts. Elec Ry J 63:430 Mr 15 '24
Hydro-electric railways report. Elec Ry J 64:336-7 Ag 30 '24
Impressive presentation of traffic fluctuations at Boston. Elec Ry J 65:488 Mr 21 '25
Improved financial conditions of electric railways. B. C. Cobb. Aera 12:1322-8 Mr '24; Same cond. Elec Ry J 63:384-6 Mr 8 '24
Improved methods produce results in Kansas City. Elec Ry J 63:807-11 My 24 '24
Increase in Columbus surplus. Elec Ry J 63: 311 F 23 '24
Investment banker sees prospect of better financing. J. K. Newman. Elec Ry J 63:379-80 Mr 8 '24
Key system transit company, Oakland, Cal., first annual report. Elec Ry J 65:676 Ap 25 '25
Loss to stabilizing fund in Toledo. Elec Ry J 65:635-6 Ap 18 '25
Making the land owner pay. Aera 12:994-7 Ja '24
Market Street railway, San Francisco, net $1,195,566. Elec Ry J 63:998 Je 21 '24
Market Street railway, San Francisco, $933,277 surplus. Elec Ry J 65:487 Mr 21 '25

STREET railroads—Finance—*Continued*
Montreal tramways company, annual report for year ended June 30, 1925. Comm & Fin Chr 121:2032 O 24 '25; Elec Ry J 66:455-6 S 19 '25
Montreal tramways has surplus of $548,695. Elec Ry J 64:862 N 15 '24
More financing on better terms. Elec Ry J 65:26-30 Ja 3 '25
Net income of Duluth-Superior traction company decreases. Elec Ry J 65:525 Mr 28 '25
New York companies doing better. Elec Ry J 65:121-2 Ja 17 '25
New Yorkers ride at less than cost. Elec Ry J 63:950 Je 14 '24
$150,532 loss in Providence. Elec Ry J 63:595-6 Ap 12 '24
$117,000,000 less involved in roads now in receivership. Elec Ry J 65:31-4 Ja 3 '25
$1,800,000 net for P.R.T. Elec Ry J 63:347 Mr 1 '24
$1,325,896 balance reported at New Orleans under new agreement. Elec Ry J 62:991 D 8 '23
Outlook for railway financing better. Elec Ry J 63:21-4 Ja 5 '24
Pittsburgh receivers report. Elec Ry J 63:595 Ap 12 '24
Pouf! goes Detroit's million dollar profit. J: W. Colton. Aera 12:1113-22 F '24
Privy council adds $838,500 to arbitration price of Toronto railway. Elec Ry J 64:786 N 1 '24
Proposed plan for financing Detroit rapid transit lines. Elec Ry J 62:963-6 D 8 '23
Public service corporation of New Jersey reports for the year 1923. Elec Ry J 63:560-1 Ap 5 '24
Railway earnings improve. E. J. Murphy. Aera 14:233-8 S '25
Railway operating revenues in Milwaukee well maintained. Elec Ry J 65:674-5 Ap 25 '25
Receivers for Detroit United. Elec Ry J 65: 431 Mr 14 '25
Receiver's plan of reorganization of the United railways, St Louis, blocked. Elec Ry J 66:107 Jl 18 '25
Receiverships lowest in thirteen years. Elec Ry J 63:25-9 Ja 5 '24
Reorganization plan of United railways company of St Louis. Comm & Fin Chr 119: 2531-3 N 29 '24
Report of A.E.R.A. advisory council on electric railway finance. Elec Ry J 66:586-7 O 10 '25
Report of the Havana electric railway, light and power company, 1923. Elec Ry J 63: 794 My 17 '24
Revenue passengers decreasing on the Washington railway & electric company. Elec Ry J 63:311 F 23 '24
Revenue well maintained at Pittsburgh. Elec Ry J 65:562-3 Ap 4 '25
Rochester lines $51,138 below return. Elec Ry J 64:1093 D 27 '24
St Louis earnings off. Elec Ry J 66:220-1 Ag 8 '25
St Louis net higher. Elec Ry J 63:635 Ap 19 '24
San Francisco Municipal loss $272,046. Elec Ry J 63:869-70 My 31 '24
San Francisco Municipal loss $295,230. Elec Ry J 65:354-5 F 28 '25; Aera 13:398-400 O '24
Seattle net income $600,000 less. Elec Ry J 64:103-4 Jl 19 '24
Service readjustments would increase Atlanta earnings $700,000. maps Elec Ry J 65:181-5 Ja 31 '25
$679,632 gain for Boston elevated. Elec Ry J 63:271-2 F 16 '24
Slight increase in net income of the United railways & electric company, Baltimore. Elec Ry J 63:830-1 My 24 '24
Smaller balance in Detroit. Elec Ry J 66:378 S 5 '25
Substantial improvement reported in New York city. Elec Ry J 63:121-3 Ja 19 '24
Surplus in Omaha. Elec Ry J 65:951 Je 13 '25
Suspension affects Akron company's income. Elec Ry J 65:675-6 Ap 25 '25
Third avenue railway, New York, reports a decrease of $226,014. Elec Ry J 64:822 N 8 '24
Traffic continues to decline on Washington railway & electric company. Elec Ry J 65:278 F 14 '25
Tramway finance: capital outlay: application of surplus revenue. R. A. Smithson. Elec R (Lond) 97:552-3; Discussion. 553 O 2 '25; Same cond. Electrician 95:444-5 O 16 '25
Les transports en commun de la région parisienne. C: Dantin. il maps Génie Civil 85:310-15, 344-5 O 11-18 '24
Trend of electric railway traffic. E. J. Murphy. charts Aera 13:159-68 S '24
Turning the red into black in Pittsburgh. J: W. Colton. il maps Aera 13:1795-1813 Je '25
$12,815,416 divided in Chicago. Elec Ry J 63: 523-4 Mr 29 '24
$2,000,000 sought for re-establishing Toronto radials. Elec Ry J 63:789 My 17 '24
$2,131,164 net at Milwaukee. Elec Ry J 63:483 Mr 22 '24
Unregulated jitney competition decreases traffic in Atlanta. Elec Ry J 65:791 My 16 '25
Youngstown lost $198,678 in 1923. Elec Ry J 63:483 Mr 22 '24
Youngstown operates at profit. Elec Ry J 65:318 F 21 '25

See also Electric railroads—Finance; Public utilities—Finance: Street railroads—Accounting; Street railroads—Cost of operation; Street railroads—Fares; Street railroads—Securities; *also* Boston Elevated railway; New York (city)—Rapid transit; Philadelphia rapid transit company

Fires and fire protection

Flat car to carry apparatus; protection is afforded to the inaccessible Oakland Mole. il Elec Ry J 66:816 N 7 '25
Housing for fire extinguishers. il Elec Ry J 65:656 Ap 25 '25
National fire protection association adopts new tentative fire protection rules for wiring of cars and car houses. G. C. Hecker. Aera 12: 1923-4 Je '24
Pulling the fire demon's teeth; approval of American national screw threads for fire hose couplings. Aera 12:2072-4 Jl '24
To get better insurance rates. A. D. Knox. Aera 12:1370-5 Mr '24

Franchises

Akron votes higher fare. L. St. Clair. Aera 13:784+ D '24
Cincinnati adopts new franchise of the service-at-cost type. Elec Ry J 66:811-15 N 7 '25
Cincinnati traction has no responsibility in franchise issues. Elec Ry J 65:118 Ja 17 '25
Franchise passed in Cincinnati. Elec Ry J 66:215 Ag 8 '25
Franchises in Columbus. Elec Ry J 63:479 Mr 22 '24
Milwaukee contract terms. Elec Ry J 64:571 O 4 '24
Milwaukee's proposed service-at-cost franchise. W. H. Maltbie. Aera 13:1114-17 F '25
New contract proposed in Cincinnati. Elec Ry J 62:1062-3 D 22 '23
New franchise agreement approved at Akron. Elec Ry J 64:817 N 8 '24
New franchise terms to Detroit United railways. Elec Ry J 64:566-7 O 4 '24
Railway franchises. W. H. Maltbie. Elec Ry J 64:478-80, 541-3 S 27-O 4 '24
Report of committee on indeterminate permit. Aera 13:409-23 O '24; Excerpts. Elec Ry J 64:601-2 O 11 '24
Rockford company wins election. L. St Clair. Aera 13:1716-19 My '25
Service-at-cost and purchase contract. Elec Ry J 65:425-6 Mr 14 '25
Springfield for franchise. Aera 13:867-70 D '24; Elec Ry J 64:931 N 29 '24
State aid sought by Virginia railway & power company. Elec Ry J 63:710 My 3 '24

STREET railroads—*Continued*

Freight

See Electric railroads—Freight

Headway recorders

Headway recorders show crossing delays. Elec Ry J 65:251 F 14 '25

History

Baltimore recalls pioneer road. il Elec Ry J 66:244-5 Ag 15 '25; Aera 14:239-44 S '25

Development of American street railways. C: De M. Emmons. il Aera 12:1148-66 F '24

Ice removal

Effective ice cutter made from old street railway truck. Eng & Contr (Ry) 62:166 Jl 16 '24

Ice cutting saves gear cases. il Elec Ry J 65:421 Mr 14 '25

Inspection

Inspection schedule reduces accidents. Elec Ry J 64:1079 D 27 '24

Interborough inspection shop methods. il map Elec Ry J 64:238-42, 305-8 Ag 16, 30 '24

Insurance requirements

Insurance a problem for electric railway properties. P. E. Wilson. Elec Ry J 66:602-3 O 10 '25

Keeping down insurance costs. B. J. Denman. Aera 12:1709-11 My '24

Report of A.E.R.A. committee on insurance. Elec Ry J 66:580-4 O 10 '25

Law

Much new legislation. K. L. McKee. Aera 13:1824-38 Je '25

Report of A.E.R.A. committee on national relations. Elec Ry J 64:584-5 O 11 '24

Report of the A.E.R.A. committee on uniform regulatory laws. Elec Ry J 64:587+ O 11 '24

See also Street railroads—Regulation

Length of ride

Determining the average length of ride. Elec Ry J 64:988 D 13 '24

Lost articles

Boston patrons leave 44,000 articles a year on cars. Elec Ry J 63:690 My 3 '24

Thousands of articles left in street cars. G. T. Geer. Aera 13:1105-7 F '25

Mail service

Electric cars haul parcel post packages in Berlin. E. Kindler. il Elec Ry J 64:346 S 6 '24

Maintenance and repair

Coffin award contestants tell of economies. il Elec Ry J 66:733-42 O 24 '25

Maintenance of equipment in Chicago. T. H. Shaughnessy. Elec Ry J 65:509-10 Mr 28 '25

Opportunities for better maintenance of equipment. G. C. Hecker. Elec J 22:469-70 O '25

Radio calls emergency crews in Detroit. il Elec Ry J 64:47-9 Jl 12 '24

Reducing equipment costs. J. C. Thirlwall. il Aera 14:252-7 S '25

Telephone dispatching saves time of work cars. Elec Ry J 65:144 Ja 24 '25

See also Street cars—Repair; Street railroads—Track

Management

Board shows location of cars. il Elec Ry J 65:770 My 16 '25

Bringing the latest and best to railway men. R. F. Carbutt. Elec Ry J 63:987-8 Je 21 '24

Bringing the latest and best to the railway men; excerpts from handbook of modern methods of operation. R. F. Carbutt. Aera 12:1674-89 My '24

Business of selling rides. W. Jackson. Elec Ry J 65:980-2; Discussion. 979 Je 20 '25

Car riders' side of the street railway problem. P: Witt. Aera 13:1349-58 Mr '25; Excerpts. Elec Ry J 65:289-90 F 21 '25

Changing a deficit into a profit in four years; the Charleston consolidated railway & lighting company. Elec Ry J 64:912 N 29 '24

Coffin award contestants tell of economies. il Elec Ry J 66:733-42 O 24 '25

Commercial and research department feature Pittsburgh organization. chart Elec Ry J 63:620-3 Ap 19 '24

Correction of headway inequalities. A. Patz. Elec Ry J 64:856 N 15 '24

Economic retirement of obsolete cars. W. J. Clardy. il Elec J 22:471-5 O '25

Economies in operation proposed for railway in Colorado Springs. maps Elec Ry J 65:885-8 Je 6 '25

Educating the management. W. H. Sawyer. Elec Ry J 63:547-8 Ap 5 '24

Full transportation service by the local electric railway. L. S. Storrs. Aera 14:170-5 S '25; Same cond. Elec Ry J 66:285-7 Ag 22 '25

Getting more riding. G. Bennett. Elec Ry J 64:132 Jl 26 '24

Getting the community with you. T: Fitzgerald. Elec Ry J 65:986-7 Je 20 '25

Giving the car-rider a voice revitalizes traction service. W: A. McGarry. il Forbes 17: 13-15+ O 15 '25

Giving the riders somewhere to go; Charleston consolidated railway & lighting company leases an amusement park. Elec Ry J 64:1072 D 27 '24

How one small road gets by. Elec Ry J 63: 695-6 My 3 '24

How the electric railways are keeping up to date; survey of methods, practices and policies of 137 companies. Aera 14:434-47 O '25

Iowa operators meet in Mason city. Elec Ry J 66:364-5 S 5 '25

Keeping cars on time. J. R. Ong. Elec Ry J 62:887-91 N 24 '23

Keeping the cars on schedule. il Elec Ry J 62:1091-2 D 29 '23

Know your job, make friends, and keep smiling. F. R. Coates. por Aera 14:731-5 N '25

Line once abandoned modernized and made profitable; New Haven to Saybrook. il Elec Ry J 64:343-5 S 6 '24

Local transportation. J: A. Beeler. Elec Ry J 64:473-7 S 27 '24

Manager's part. E: Dana. il Elec Ry J 64: 469-72 S 27 '24

Modernize and merchandize: an interview with Britton I. Budd. H. L. Brown. Elec Ry J 62:1037-46 D 22 '23

Modernizing the transportation system of the Attleboros. J: A. Miller, jr. il map Elec Ry J 66:321-4 Ag 29 '25

New spirit needed in management and men. J. N. Shannahan. il Elec Ry J 66:465-7 S 26 '25

Organization and operation of a unified system. C. W. Stocks. il Elec Ry J 66:520-4 S 26 '25

Pittsburgh wins the Coffin medal. Aera 16: 643-717 N '25; Same cond. Elec Ry J 66: 666-84 O 17 '25

Plan to give Atlanta ideal local transit service; report of the Beeler organization. maps Aera 13:1134-52 F '25

Preparing transportation department payrolls by machine. il Elec Ry J 65:839-41 My 30 '25

Problems of a railway in a medium sized city. A. H. Foster. Elec Ry J 63:982-3 Je 21 '24

Railway finds new source of revenue; hauling mine and power waste on contract basis. il Elec Ry J 62:934 D 1 '23

Record in Pittsburgh. A. W. Thompson. Elec Ry J 66:599-601 O 10 '25; Same. Pub Serv Management 39:145-6 N '25

Records facilitate transportation department management. Elec Ry J 63:491-4 Mr 29 '24

Rehabilitation of Pittsburgh railways brings many improvements. il map Elec Ry J 65: 799-802 My 23 '25

Report of A.E.R.A. committee on city and interurban operation. Elec Ry J 66:592-3 O 10 '25

Report of the T. & T. A. committee on selling transportation. Elec Ry J 66:642 O 10 '25

STREET railroads—Management—*Continued*
Report of the T. & T. A. committee on the development of new business. Elec Ry J 64:655-6 O 11 '24
Science and art of community transportation. J. W. Welsh. Aera 13:1965-73 Jl '25
Service readjustments would increase Atlanta earnings $700,000. maps Elec Ry J 65:181-5 Ja 31 '25
Serving Washington by three independent transportation agencies. diags map Elec Ry J 66:817-21 N 7 '25
Speed up cars and stop jitneys is recommendation of Beeler report. Elec Ry J 63: 407-10 Mr 15 '24
This trolley system pays 20 per cent; conditions in Shanghai and Singapore. il Aera 13:1469-78 Ap '25
Traffic problems in a city of 70,000; Charleston, S. C. map plan Elec Ry J 62:1081-7 D 29 '23
Transporting workers in Washington, D.C. J: A. Miller, jr. il map Elec Ry J 65:247-51 F 14 '25
Turning the red into black in Pittsburgh. J: W. Colton. il maps Aera 13:1795-1813 Je '25
217.728 car-miles per pull-in; well organized system of inspection and repair in New Orleans. R. M. O'Brien. il Elec Ry J 63:969-71 Je 21 '24
What pep, public understanding and employe cooperation will do. M. K. Hanlan. il Aera 14:342-7 O '25
What railway operators can do to improve traffic conditions. H. F. Fritch. Elec Ry J 63:845-7 My 31 '24
Why a traffic survey? J: A. Beeler. Aera 13:596-8 N '24; Same. Eng & Contr (Ry) 63:356-8 F 18 '25

See also Street railroads—Employees; Street railroads—Public relations; Street railroads—Stores systems

Motor bus auxiliaries

See Motor bus lines—Street railroad auxiliaries

Motor vehicle competition

Automotive vehicle and its effect on transportation. J: A. Dewhurst. il Elec Ry J 66: 477-81 S 26 '25
Be the first to render service. S. B. Way. Aera 13:1374-9 Mr '25; Same. Elec Ry J 65:291-3 F 21 '25; Same cond. Bus Transportation 4:142-4 Mr '25
Better bus regulation needed. Elec Ry J 65: 891 Je 6 '25
Bus competition ends at Wheeling. Elec Ry J 63:335-6 Mr 1 '24
Bus competition in St Louis. Aera 12:1925-8 Je '24
Buses will not supplant rail lines in London; interview with Sir Henry Maybury. J: W. Colton. Aera 14:370-3 O '25
Effect of the automobile on passenger traffic. D. Montgomery. Elec Ry J 63:662-3 Ap 26 '24
Obstruction is necessary to real progress. R. H. Newcomb. Elec Ry J 64:813 N 8 '24
Railways, essential to the public, must be protected. P. Shoup. Aera 13:702-9 N '24
Significance of subsidized bus competition. C: W. Chase. Elec Ry J 65:899 Je 6 '25
Street railway securities; motor busses slowly affecting street railway operations. C. Donaldson. il Sci Am 133:68+ Jl '25
Tramways and motor omnibuses in Ireland. G. M. Harriss. Elec R (Lond) 96:277 F 13 '25
Transit conditions in St Louis today; abstracts. M. Buck and C. W. Stocks. il map plan Elec Ry J 65:397-407 Mr 14 '25; Bus Transportation 4:169-75 Ap '25; Discussion. C. E. Smith. Elec Ry J 65:586-7 Ap 11 '25
United States court outspoken on competitive bus proposal. Aera 13:220-3 S '24
Urban passenger traffic; protection for efficient tramway services. Elec R (Lond) 96: 1039-40 Je 26 '25
What the private automobile has brought to transportation. E. M. Walker. Elec Ry J 66: 487-8 S 26 '25

See also Jitney buses

Municipal ownership

Conditions no better in Detroit than before the city took over the lines. il Aera 12:1508-10 Ap '24
Dangers to be avoided with public ownership. D. F. Wilcox. Elec Ry J 66:134 Jl 25 '25; Discussion. F. R. Welsh. 66:207 Ag 8 '25
Is municipalization ahead? F. Putman. Elec Ry J 66:140 Jl 25 '25
Toronto's two and a half years of municipal ownership. Elec Ry J 63:577-8 Ap 12 '24

See also Street railroads, Municipal

Passes

See Street railroads—Fares

Platforms

See Street railroads—Shelters

Public relations

Broadcasting for good will. G. D. Fleck. Aera 14:397-401 O '25
Concentration in publicity. H. O. Crews. Aera 14:374-5+ O '25
Courtesy. J: J. Reynolds. Aera 12:2058-61 Jl '24
Five ways to improve public relations. F. C. Chambers. Elec Ry J 64:17-18 Jl 5 '24
"Friendlyizing" the public. E. F. Wickwire. Aera 12:1937-46 Je '24
Gaining public good will in a city of 100,000. Elec Ry J 62:931-4 D 1 '23
Getting a new deal from the public. H: G Wells. Elec Ry J 63:266-7 F 16 '24
Getting the community with you. T: Fitzgerald. Elec Ry J 65:986-7 Je 20 '25
Give the poeple what they want! J. B. Sheridan. il Aera 14:5-11 Ag '25
It's your own fault. P. L. Thomson. Elec Ry J 63:1020-2 Je 28 '24
Keep politics out of transit. W: S. Twining. Aera 12:1197-1201 F '24
Make the figures talk. L. E. Harris. Aera 14: 364-9 O '25; Same cond. Elec Ry J 66:702-5 O 17 '25
Open your house to customers. A. E. Fischer. Aera 14:69-72 Ag '25
Organizing the public relations department. L. K. Starr. Elec Ry J 64:661-2 O 11 '24
Pittsburgh sells the ride. W. Jackson. Aera 12:1739-43 My '24
Public and the railways. H: G. Wells. Aera 12:1366-9 Mr '24
The public—our customers. W. H. Sawyer. Elec Ry J 66:473-6 S 26 '25
Public relations in San Diego. Elec Ry J 63: 576 Ap 12 '24
Ride salesmanship. W. Jackson. il Elec Ry J 64:528-32 S 27 '24
Salesmanship; qualities street railway conductors and motormen should develop. G: B. Anderson. Aera 12:1667-73 My '24
Saving the small road. J: B. Crawford. Elec Ry J 63:303-4 F 23 '24
Selling the service of the railways. E. F. Wickwire. Aera 14:727-30 N '25; Same cond. Elec Ry J 66:601-2 O 10 '25
Some useful elements of the street railway philosophy. W. E. Wood. Elec Ry J 62:896-8 N 24 '23
They're organized—all but the car riders. G: B. Anderson. Aera 13:1277-81 Mr '25
Tractions need co-operation of public, says Shannahan. S. D. Ormand. Forbes 15:81-2+ O 15 '24
Transit columnist confesses. A. Bill. Aera 14:34-8 Ag '25
"The wayfarer and the fare." L. J. DeLamarter. Aera 12:1894-7 Je '24
What may be accomplished by constructive publicity. W. H. Boyce. Elec Ry J 64:131 Jl 26 '24
Who plans your public policies? L. S. Storrs. Aera 14:1-4 Ag '25
Woman car rider's view. A. Escoe. Aera 14: 83-6 Ag '25

See also Street railroads—Advertising

STREET railroads—*Continued*

Purchasing

Co-operation from the purchasing agent's standpoint. H. H. Lloyd. Elec Ry J 64:632-3 O 11 '24

Purchasing agent should have dignity and fairness. W. H. Sawyer. Elec Ry J 64:631-2 O 11 '24

Records

Car defect analysis reduces pull-ins in San Antonio. W. W. Holden. Elec Ry J 66:233-6 Ag 15 '25

Car mileage records with a posting machine. Elec Ry J 62:855-7 N 17 '23

Combined service report used in Los Angeles. Elec Ry J 65:659 Ap 25 '25

Compiling individual car mileage in Detroit. I. N. Merritt. il Elec Ry J 64:277-8 Ag 23 '24

Daily statement of earnings and expenses kept on Eastern Massachusetts street railway. Elec Ry J 63:580 Ap 12 '24

Meter practice followed on the Sacramento Northern. W. H. Evans. Elec Ry J 63:60 Ja 12 '24

New trip envelope saves time. Elec Ry J 63:174 F 2 '24

Records facilitate transportation department management. Elec Ry J 63:491-4 Mr 29 '24

Seven operators' forms combined in one. Elec Ry J 66:544-6 O 3 '25

Systematic records reduce line failures. J. F. Neild. Elec Ry J 65:763-5 My 16 '25

Uniform trip sheet for cars and buses. Elec Ry J 65:849 My 30 '25

Work of the Baltimore mileage bureau. Elec Ry J 64:1077-9 D 27 '24

Regulation

Regulators must avoid competition. J. N. Shannahan. Elec Ry J 64:852-3 N 15 '24

Transportation men should run transportation systems. M: C. Brush. Elec Ry J 65:297-8 F 21 '25

Rolling stock

See Street cars

Routing

Rerouting Chicago cars. Elec Ry J 63:683-7; 64:366, 843-4, 66:48 My 3, S 6, N 15 '24, Jl 11 '25

Rerouting in Davenport proves effective. Elec Ry J 63:274-5 F 16 '24

Rerouting suburban line to save time. diag Elec Ry J 66:728-9 O 24 '25

Service improvements in Davenport. E. J. Anderson. Elec Ry J 66:365-6 S 5 '25

What rerouting did for Chicago. G. A. Richardson. il maps Aera 13:937-42 Ja '25

Safety devices and measures

Accident costs reduced 1.56 per cent of gross earnings. Elec Ry J 64:880 N 22 '24

Accident prevention in San Antonio. H. A. Briggs. il Elec Ry J 64:274-5 Ag 23 '24

All are alert when no accidents mean cash. Nat Safety N 9:16 Ap '24

Arousing interest in safety reduces accidents. Elec Ry J 65:854 My 30 '25

Award system as a means of preventing accidents; abstracts. G: B. Anderson. Elec Ry J 62:566-8 O 6 '23; Nat Safety N 8:21-2 N '23

Award system as a stimulant to safety effort. G. T. Hellmuth. Nat Safety N 12:23-4 D '25; Abstract. Elec Ry J 66:558 O 3 '25

Award system in street railway operation. R. R. Hadsell. Nat Safety N 10:23-4 N '24

Bonus system reduces accidents. Elec Ry J 64:198 Ag 9 '24

Bringing safety to the patron. S. R. Bowen. Aera 14:393-6 O '25

Careful selection of men is first essential of safe operation. Elec Ry J 64:559-60 O 4 '24

Claims and safety. J. H. Handlon. il Elec Ry J 64:519-22 S 27 '24

Cutting accident costs in Memphis. C. B. Proctor. Aera 13:19-20 Ag '24

Dual accident-prevention plan in Birmingham, Ala. Elec Ry J 64:316 Ag 30 '24

Electric derail protects bridge crossing. plan Elec Ry J 65:225-6 F 7 '25; Same. Eng & Contr (Ry) 63:571-2 Mr 18 '25

Electric railway in community safety extension. L. H. Palmer. Nat Safety N 10:15-16 D '24

Eliminating half the accidents in El Paso. il Elec Ry J 62:1047-50 D 22 '23

Employees organization begins safety campaign. Elec Ry J 63:177 F 2 '24

Employee suggestions aid safety work. Elec Ry J 65:725-6 My 9 '25

Every Key system man works for safety and efficiency. H. K. Townsend. Aera 13:670-2 N '24

Honor roll reduces accidents in Dayton. Elec Ry J 65:252 F 14 '25

How safety has replaced claims on the Louisville railways. G: E. Wallis. il Nat Safety N 10:5-7 S '24

Humanitarian appeal makes safety work successful. J. P. Barnes. Aera 13:152-8 S '24

Keeping back the "red hand" on St Louis railways. E. K. Eastham. il Nat Safety N 11:25-6 Je '25

Keeping trainmen interested in safety work. G. B. Powell. Elec Ry J 66:709 O 17 '25

Lesson of fallen parts on street car tracks. il Nat Safety N 10:47+ O '24

Louisville trainmen on round-the-world safety trip. chart Aera 13:1108-13 F '25

Many safety methods developed by companies in Coffin prize contest. il Elec Ry J 66:779-85 O 31 '25

Milwaukee holds accident reduction race. Elec Ry J 65:690 My 2 '25

New mechanical devices for preventing accidents. M. H. Frank. Elec Ry J 66:644-5 O 10 '25

New method of taking up safety work with employees. R. A. Sears. Elec Ry J 66:650-2 O 10 '25

Non-parking law and boulevard stop saving lives in Cleveland. R. W. Emerson. Aera 14:390-2 O '25

One year of organized accident prevention on Northern Ohio traction & light co. G. H. Shaw. Nat Safety N 9:23-4 F '24

Place of the railway in community safety work. L. H. Palmer. Aera 13:673-7 N '24

Public and trainman—partners in accident prevention. H. F. Webb. il Nat Safety N 12:19-20 O '25

Recorder shows if cars make safety stops. il Elec Ry J 64:45 Jl 12 '24

Report of joint committee of T. & T.A. and Claims association on accident prevention. Elec Ry J 66:640-1 O 10 '25

Safety as a means of reducing insurance costs. C: B. Scott. Elec Ry J 65:508-9 Mr 28 '25

Safety on the Pittsburgh railways. Aera 14:697-706 N '25; Same cond. Elec Ry J 66:680-3 O 17 '25

Safety practices in Brooklyn. A. L. Hodges. Elec Ry J 65:896-7 Je 6 '25

Safety work in Providence. H. K. Bennett. Elec Ry J 63:936 Je 14 '24

Trainmen and community work for safety. Elec Ry J 62:1080 D 29 '23

Two companies compete in safety contest. J. E. Jordan. il Elec W 85:985 My 9 '25

United for safety, Baltimore's new trolley topic. G: E. Wallis. il Nat Safety N 11:17-20 My '25

Where street car safety swells the bonus. C. L. Smith. Nat Safety N 9:11-12 F '24

Why my company is interested in community safety. W: F. Ham. il Nat Safety N 8:13-15 O '23

See also Derails

Schedules

Actual checks the basis of modern timetable making. L. A. Recappe. charts Aera 14:179-83 S '25

Chicago adopts new form of time-table. Elec Ry J 64:46 Jl 12 '24

Dispatching helps maintain good service. il Elec Ry J 64:275-7 Ag 23 '24

Headway recorders show crossing delays. Elec Ry J 65:251 F 14 '25

STREET railroads—Schedules—*Continued*
How Atlanta keeps cars on time. il Elec Ry J 64:117-18 Jl 26 '24
Keeping cars on time. J. R. Ong. Elec Ry J 62:887-91 N 24 '23
Making your headways sell your service. Elec Ry J 63:401 Mr 15 '24
Plotting city schedules. C: R. Harte. chart Elec Ry J 63:203-5 F 9 '24
Schedule making. S. D. Smith. Aera 13: 1121-4 F '25
Schedule making is a science. F. J. Brennan. Aera 12:2062-4 Jl '24
Schedules for patrons. Elec Ry J 63:843 My 31 '24
Scheduling car leaving times. J. R. Ong. Elec Ry J 63:656-7 Ap 26 '24
Speeding up service in Memphis. il Elec Ry J 64:308 Ag 30 '24

Securities

Broad economics of employee ownership. T. N. Carver. Elec Ry J 64:613-16 O 11 '24; Same cond. Aera 13:372-82 O '24
Citizen ownership urged at Philadelphia. W: S. Twining. Elec Ry J 63:119 Ja 19 '24
Customer and employee ownership. F. Scheel. Elec Ry J 64:618-19 O 11 '24
Interesting local traction securities. Moody's Inv Serv 17:64 F 19 '25
Opportunities for investors. E: L. Barnes. Forbes 16:558-9+ Jl 15 '25
Opportunities for investors. R. V. Sykes. Forbes 15:116+ O 15 '24
P.R.T. sells ten shares a minute. il Aera 13: 1502-8 Ap '25; Elec Ry J 65:503 Mr 28 '25
Present and future of street railway securities. Pub Serv Management 39:92-4 S '25
Railway securities can be sold locally. C. W. Kellogg. Elec Ry J 64:616-17 O 11 '24
Report of A.E.R.A. committee on customer ownership. Elec Ry J 66:587-8 O 10 '25
Selling railway securities. J. K. Newman. Aera 12:1574-82 Ap '24
Some definite evidence of the bankers' changing attitude. Elec Ry J 63:1018 Je 28 '24
See also Electric railroads—Securities

Service

Convenient information office in Grand Rapids. il Elec Ry J 66:280 Ag 22 '25
Service and the man who sells it. F. G. Buffe. Elec Ry J 63:986-7 Je 21 '24
"Service, please." R. S. Tompkins. Aera 13:1454-7 Ap '25
See also Street railroads—Public relations

Shelters

Shelter combined with Island platform. G. C. Peterson. il plan Elec Ry J 65:653-4 Ap 25 '25

Shops

See Electric railroads—Shops

Signals

See Electric railroads—Signals

Snow protection and removal

Experience with rotary snow brooms in Greater New York. W. B. Kelley. Elec Ry J 62: 1017 D 15 '23
It pays to send out the snow plows promptly. il Elec Ry J 63:138 Ja 26 '24
Long wing clears roadway of snow. il Elec Ry J 63:406 Mr 15 '24
Open cars converted into snow sweepers. il Elec Ry J 63:418-19 Mr 15 '24
Overhauling snow-fighting equipment. F. T. McCann. Elec Ry J 66:370 S 5 '25
Snow-fighting equipment in Spokane. il Elec Ry J 63:66 Ja 12 '24
Snow loader is a great labor saver. il Elec Ry J 63:418 Mr 15 '24
Snow plow and loader in Boston. il diag Elec Ry J 63:225 F 9 '24
Snow removal by machine methods. C. F. Reuter. Elec Ry J 62:1017 D 15 '23
See also Street railroads—Ice removal

Statistics

Annual mileage output per platform man. K. Norregaard. Elec Ry J 64:775-6 N 1 '24
Bright prospects for 1925. E. J. Murphy. Aera 13:1085-93 F '25
Census report shows status of electric railways. Elec Ry J 65:305-9 F 21 '25
Electric railway operations in 1925; a statistical review of developments during the first half of the year. E. J. Murphy. Elec J 22: 480-1 O '25
Statistics showing extent of the industry. Elec Ry J 63:24; 65:367-8 Ja 5 '24, Mr 7 '25
Track extensions and reconstruction greatest in eight years. Elec Ry J 63:37-9 Ja 5 '24
Traffic increasing in populous states. Elec Ry J 62:1051-2 D 22 '23
Trend of electric railway traffic. E. J. Murphy. charts Aera 13:159-68 S '24
U.S. census figures for 1922 show gains for electric railway industry. Elec Ry J 63:205 F 9 '24
Use of statistical charts in wage negotiations. M. S. Merwin and H. Davis. Aera 14: 402-9 O '25
Work of the Baltimore mileage bureau. Elec Ry J 64:1077-9 D 27 '24

Stops

Pennsylvania Supreme court decides that railway company has right to determine when and where passengers shall board and leave cars. Aera 12:1530-1 Ap '24
Stop elimination speeds up service in Boston. il map Elec Ry J 65:888 Je 6 '25
Stops eliminated in Cleveland. Elec Ry J 63: 789 My 17 '24
Tramcar stopping places; abstracts. J. Dalrymple. Elec R (Lond) 97:518 S 25 '25; Elec Ry J 66:833 N 7 '25; Discussion. Elec R (Lond) 97:518-19 S 25 '25

Stores systems

Accounting for stores. R. A. Weston. Elec Ry J 65:217-20 F 7 '25
Daylight shelves improve storeroom. il Elec Ry J 64:353-5 S 6 '24
Importance of a well regulated supply department. C. A. Harris. Elec Ry J 64:630-1 O 11 '24
Storeroom improvements at Richmond save time and money. J: Y. Bayliss. il Elec Ry J 64:875-8 N 22 '24
See also Street railroads—Surplus materials

Surplus materials

Disposition of surplus and obsolete materials. A. E. Hatton. Elec Ry J 66:635-6 O 10 '25

Switches, frogs, etc.

Manganese special work welding. E. J. Shuler. Eng & Contr (Ry) 61:419-20 F 20 '24
Track switches for electric railways in paved streets. G. Bouton. diags Elec Ry J 64: 169-71 Ag 2 '24

Taxation

Economist sees new era ahead for electric railways. R: T. Ely. Elec Ry J 63:380-4 Mr 8 '24
Indirect tax and the street car ride. S. B. Irelan. Elec Ry J 63:985-6 Je 21 '24
Report of the A. E. R. A. committee on special taxes. Elec Ry J 64:586-7 O 11 '24; Aera 13: 363-8 O '24
Why the passenger now pays tractions' tax bills. W. H. Maltbie. Forbes 15:95+ O 15 '24

Taxicab and "drive yourself" service

Making individual service an ally of the electric railway. J. A. Emery. Elec Ry J 66: 497-8 S 26 '25

Telephone

Carrier current telephony experiments on Connecticut lines. L. T. Wilson. il Aera 12:2023-7 Jl '24
Dispatching helps maintain good service. il Elec Ry J 64:275-7 Ag 23 '24

STREET railroads—Telephone—*Continued*
Telephone dispatching in San Antonio. W: W. Holden. Elec Ry J 63:328-9 Mr 1 '24
Telephone dispatching on Shore line railway. il Elec Ry J 65:842 My 30 '25

Terminals

Dixie terminal building, Cincinnati; views and plans. Am Arch 125:60 l-p, 61-2 Ja 16 '24
Increasing the speed of car loading at terminals; modification of car entrances. H. S. Williams. plan Elec Ry J 65:191 Ja 31 '25

Tickets

Coupon books arranged to extend transfer privileges. Elec Ry J 65:62 Ja 10 '25
New duplex ticket promotes tidiness in cars. il Elec Ry J 63:815-16 My 24 '24
See also Street railroads—Transfers

Tourist traffic

Tourist business increased 20 per cent on Washington-Virginia railway. il Elec Ry J 66:387-90 S 12 '25

Track

Applying quantity production methods to maintenance of way. F. B. Walker. il Elec Ry J 63:241-5 F 16 '24; Same, without il. Eng & Contr (Ry) 61:1134-8 My 21 '24
Auto truck sands track in Utica. il Elec Ry J 64:762 N 1 '24
Competition in track maintenance based on car derailments. il chart map Elec Ry J 66:239-40 Ag 15 '25
Concreting under steel ties. il Eng & Contr (Ry) 61:430-1 F 20 '24
Construction of street railway track in paved street. Eng & Contr (Ry) 60:1072-5 N 21 '23
Correct welding procedure retains qualities of manganese steel. H. H. George. Elec Ry J 63:611-13 Ap 19 '24; Same. Eng & Contr (Ry) 62:411-14 Ag 20 '24
Corrosive effect of slag. W. R. Dunham. diag Elec Ry J 64:732 O 25 '24
Cushion ties tried at Cleveland; asbestos-asphalt cushion. diags Elec Ry J 65:140 Ja 24 '25; Same. Eng & Contr (Ry) 63: 383-4 F 18 '25
Determination of special trackwork requirements. Elec Ry J 65:535 Ap 4 '25
Detroit develops truck for arc welding. il Elec Ry J 64:60-1 Jl 12 '24
Economical reconstruction of 3,500 ft. of street railway double track. diag Eng & Contr (Ry) 61:645-7 Mr 19 '24
Electric railway track construction; methods employed by Toronto transportation commission. H. W. Tate. il diags Can Eng 48: 441-4 Ap 28 '25
Experience with surface-hardened rail in Toronto. il Elec Ry J 65:1016 Je 27 '25
Factors in track construction and maintenance costs. R. H. Findley. Elec Ry J 65: 894-6 Je 6 '25
Hardening rail surface in the track. il Elec Ry J 63:922 Je 14 '24
How New Orleans is rebuilding track. il diag Elec Ry J 63:773-6 My 17 '24
How rail corrugation has been eliminated in Pittsburgh. I. E. Church. Elec Ry J 64:83-5 Jl 19 '24
In situ treatment of rails. il diags Elec Ry J 64:440-1 S 20 '24; Discussion. C. P. Sandberg. 64:844-5 N 15 '24
Insuring a bearing under steel ties. il Elec Ry J 62:1005 D 15 '23
Iowa association discusses maintenance. Elec Ry J 64:885-8 N 22 '24
Keeping track machinery on the job. il chart Elec Ry J 63:463-9 Mr 22 '24
Labor-saving equipment in trackwork. E. S. Meyers. Elec Ry J 65:780-1 My 16 '25; Same abr. Eng & Contr (G C) 63:1325-6 Je 17 '25
Latest development in track material. E. d'Hoop. diags Elec Ry J 64:97-8 Jl 19 '24; Discussion. F. Bland. 64:392-3 S 13 '24
Light track construction in Texas. il Elec Ry J 62:947 D 1 '23
Machinery speeds up trackwork. W. D. Chamberlin. il Elec Ry J 63:95-6 Ja 19 '24; Same. Eng & Contr (Ry) 61:414-15 F 20 '24
Maintaining street railway track. M. W. Freund. Elec Ry J 64:887-8 N 22 '24
Making tests to save $15,000,000 a year. Elec Ry J 63:497-8 Mr 29 '24
Milwaukee tries unit track construction. il Elec Ry J 66:432 S 19 '25
Mobile equipment used for building track in Pittsburgh. il Elec Ry J 65:971-3 Je 20 '25
Motorized equipment reduces track maintenance costs. il Elec Ry J 65:155 Ja 24 '25
New rail on old steel ties and concrete. il diags Eng & Contr (Ry) 62:863-6 O 15 '24
Observations on the track structure. H. P. Hevenor. diags Elec Ry J 63:737-40 My 10 '24; Same. Eng & Contr (Ry) 62:1123-7 N 19 '24
Old rail used for ties in Bangor. E. W. Jennison. il diags Elec Ry J 65:333-4 F 28 '25
Paving guards used in Halifax. il Elec Ry J 64:833 N 15 '24
Permanent track features rehabilitation in Wisconsin cities. A. A. Oldfield. il diag Elec Ry J 66:168-70 Ag 1 '25
Portable pneumatic equipment reduces track reconstruction cost. C. A. Elliott. il Elec Ry J 63:613-15 Ap 19 '24; Same. Eng & Contr (Ry) 62:421-3 Ag 20 '24
Quiet track installation in Texas. Eng & Contr (Ry) 61:1362 Je 18 '24
Rail corrugation experience. il Elec Ry J 63: 255-60 F 16 '24
Rapid track reconstruction with butt-welded joints. il Elec Ry J 64:831-3 N 15 '24
Rebuilding a section of street railway at Milwaukee. il diags Eng N 92:310-12 F 21 '24
Recent improvements in special trackwork. P. Lo Balbo. Elec Ry J 64:58 Jl 12 '24
Rehabilitating street railway tracks of the Canadian National electric railways at Niagara Falls, Ont. il Can Eng 47:607-8 D 16 '24; Same, without il. Eng & Contr (Ry) 63:350 F 18 '25
Replacing rail on old track foundations. il Elec Ry J 64:82 Jl 19 '24
Replacing wood ties with steel on old concrete. il Eng & Contr (Ry) 61:1110-11 My 21 '24
Report of the A.E.R.E.A. committee on way matters. Elec Ry J 64:637-8; 66:623-5 O 11 '24, O 10 '25
Reports of ten sub-committees. Elec Ry J 63: 939-40 Je 14 '24
St Louis track construction includes novel features. il diags Elec Ry J 63:287-90 F 23 '24
Seattle municipal railway builds stadium loop extension. A. E. Pierce. il diags Elec Ry J 66:549-50 O 3 '25
Special organization handles track maintenance work. il map Elec Ry J 65:465-9 Mr 21 '25
Steels for special trackwork. J. H. Budd. Elec Ry J 63:703-4 My 3 '24
Thermit process gives good results in Youngstown. D. J. Graham. il Elec Ry J 64:841-2 N 15 '24
Tie bar reduces work of track construction. C. A. Elliott. il Elec Ry J 62:828 N 10 '23
Tieless track in Hot Springs, Ark. G. J. Gauthier. il Elec Ry J 65:615-18 Ap 18 '25
Track construction. C. F. Gailor. il Elec Ry J 64:501-4 S 27 '24
Track construction. M. J. Torres y Estrada. Elec Ry J 64:20 Jl 5 '24
Track construction in Europe differs from practice here. il diags Elec Ry J 64:437-40 S 20 '24
Track construction methods in New Orleans. diags Eng & Contr (Ry) 61:1348-50 Je 18 '24
Track drop collects sand in rail grooves. diag Elec Ry J 66:157 Ag 1 '25
Track economies through welding. R. B. Fehr. Elec Ry J 66:60-1 Jl 11 '25
Track extensions in 1924 show big increase over 1923. Elec Ry J 65:17-20 Ja 3 '25
Track machinery combined into a single unit. il Elec Ry J 65:186 Ja 31 '25

STREET railroads—Track—*Continued*
Track maintenance instruction. Elec Ry J 64: 13 Jl 5 '24
Track maintenance practices. J. I. Catherman. Elec Ry J 65:510-11 Mr 28 '25
Track reconstruction cost reduced by use of modern equipment. A. Taurman. il Elec Ry J 65:537-40 Ap 4 '25
Track reconstruction speeded up by using mechanical ties. T. E. Howell. il diag Elec Ry J 65:190 Ja 31 '25; Same. Eng & Contr (G C) 63:806 Ap 17 '25
Track rehabilitation in Spokane. il Elec Ry J 63:106-7 Ja 19 '24
Track relaid amid heaviest vehicular traffic. il Elec Ry J 62:1011 D 15 '23; Same. Eng & Contr (Ry) 61:134 Ja 16 '24
Track standards in central Europe. P. Goetz. Elec Ry J 64:854-5 N 15 '24
Welding manganese steel by the oxy-acetylene process. B. K. Smith. diag Eng & Contr (Ry) 62:882-4 O 15 '24
Wisconsin university fellowship report. Elec Ry J 66:290 Ag 22 '25
Work train employees, share in profits. il Elec Ry J 64:721-4 O 25 '24

See also Electric railroads—Track; Rails; Sanders; Street railroads—Curves and turnouts; Street railroads—Ice removal; Street railroads—Switches, frogs, etc.

Track cleaning

Vacuum cleaner for grooved rails. P. M. Nieuwenhuis. diag Elec Ry J 64:22 Jl 5 '24

Track pavement

Advantages of solid concrete track structure and paving. A. E. Harvey. Eng & Contr (Ry) 61:135-7 Ja 16 '24
Better concrete results from field tests. il diag Elec Ry J 64:85-7 Jl 19 '24
Cars operated over new concrete roadbed in 26 hours. il Elec Ry J 64:1035-6 D 20 '24
Concrete curb along rail reduces paving cost. il diag Elec Ry J 65:94 Ja 17 '25; Same. Eng & Contr (Ry) 63:600 Mr 18 '25
Concrete cuts paving costs. diag Elec Ry J 62:1010-11 D 15 '23
Concrete paving of track in Chattanooga. il diags Elec Ry J 62:898-9 N 24 '23; Same. Eng & Contr (Ry) 60:1319 D 19 '23
Concrete slabs in track work. L. L. Dagron. il Eng & Contr (G C) 63:835-6 Ap 17 '25
Electric railway track construction; methods employed by Toronto transportation commission. H. W. Tate. il diags Can Eng 48: 441-4 Ap 28 '25
Forty-six street railways which have received relief from their paving burdens. Aera 13: 48-50 Ag '24
Getting relief from unfair paving obligations. Aera 13:2042-6 Jl '25
Hot asphalt filler prevents pavement bulging. il Elec Ry J 63:100 Ja 19 '24
Improving track in Dubuque, Iowa. diag Eng & Contr (G C) 63:837-8 Ap 17 '25
Low-crowned pavement. diags Elec Ry J 65: 194 Ja 31 '25
Machines facilitate track zone pavement. il Elec Ry J 62:847-8 N 17 '23
New type track pavement tried in Rochester; asphalt and brick. Elec Ry J 65:973 Je 20 '25
Pavement within railway area. R. C. Cram. Aera 12:825-30 D '23; Excerpt. Eng & Contr (Ry) 63:1310-11 D 19 '23
Paving old track in private right-of-way. il Elec Ry J 64:968 D 6 '24; Same. Eng & Contr (Ry) 62:1342 D 17 '24
Paving street railway tracks. J. Adler. Munic & Co Eng 69:165-7 S '25
Paving troubles along the rail. W. S. Godwin. il diags Elec Ry J 63:101-3 Ja 19 '24
Plea for relief from paving in New York. Elec Ry J 66:796-7 O 31 '25
Precast concrete paving. il diags Elec Ry J 65:505-6 Mr 28 '25
Reinforced concrete for track paving. E. W. Jennison. il diag Elec Ry J 63:934 Je 14 '24
Relief from paving burdens. A. T. Davison. il Aera 13:943-50 Ja '25; Same cond. Elec Ry J 64:997-8 D 13 '24
Resilient concrete paved track successful in Denver. N. R. Love. il diag Elec Ry J 66: 725-8 O 24 '25
Rigid track experience in Kansas City. A. E. Harvey. il diags Elec Ry J 64:730-1 O 25 '24
San Francisco car company owns and operates its own paving plant. C: W. Geiger. il Pub Serv Management 38:19 Ja '25
Slump test determines proper moisture for concrete. il Elec Ry J 63:413-14 Mr 15 '24
Street pavements in railway track areas. J. Adler. Eng & Contr (R & S) 62:1231-3 D 3 '24
Track joint failures—cause and repair; a survey. il diags Elec Ry J 63:964-5 Je 21 '24
Vitrified brick makes durable paving in the track area. A. Taurman. il diag Elec Ry J 66:281-3 Ag 22 '25; Excerpt. Eng & Contr (G C) 64:1140 N 18 '25
Wood block selected for paving along rails. il Elec Ry J 63:110 Ja 19 '24
Wood for crossing pavement. il Elec Ry J 64:847-8 N 15 '24

Traffic

Automobiles flatten curve. Elec Ry J 62:1094 D 29 '23
Average ride in New York is 1.65 miles. Elec Ry J 63:209-10 F 9 '24
Determining service from daily operating statistics. A. L. Hodges. Elec Ry J 63:184 F 2 '24
Per cent change in number of revenue passengers carried each month by 213 electric railways from the number carried in the corresponding month of the previous year. Aera 14:543 O '25
Predicting traffic requirements in San Antonio. W: R. Castle, jr. Elec Ry J 66:121-4 Jl 25 '25
Relieving congestion on Atlanta streets. il Elec Ry J 63:817-18 My 24 '24
Surface car transportation in large cities of growing importance. G. A. Richardson. il Elec Ry J 66:489-93 S 26 '25
Surface lines transportation in Chicago. C: V. Weston. maps W Soc E J 29:155-65 Mr '24
Survey shows street railways sound. J: F. Layng. Elec Ry J 63:1011-15 Je 28 '24
Variable mill riding requires careful checking. il Elec Ry J 63:575-6 Ap 12 '24

Trains

Articulated car. W. G. Gove. Aera 13:861-7 D '24; Same cond. il diags Elec Ry J 64:963-6 D 6 '24
Articulated cars are proving their efficiency. A. W. Baker. Aera 14:538-42 O '25
Baltimore puts an articulated car in service. il Aera 13:810-12 D '24
Brooklyn's duplex car placed in service. il diags Elec Ry J 63:252-5 F 16 '24; Aera 12: 1350-1 Mr '24
German railways try articulated trains. il diags Elec Ry J 65:259-61 F 14 '25
Operating aspects of Kansas City safety train. il Elec Ry J 62:966-7 D 8 '23
Rush-hour train operation in Baltimore. il diags Elec Ry J 65:577-80 Ap 11 '25
Sample articulated car built for Chicago surface lines. il diags Elec Ry J 66:191-4 Ag 8 '25
Three-car articulated train for Detroit. A. C. Colby. il diags Elec Ry J 63:357-62 Mr 8 '24; Same. Gen Elec R 27:441-8 Jl '24

Transfers

Coupon books arranged to extend transfer privileges. Elec Ry J 65:62 Ja 10 '25
Diagonal tear-off transfer used in Bangor. il Elec Ry J 64:392 S 13 '24
New form of tear-off transfer. il Elec Ry J 64:548 O 4 '24
Red band on transfer indicates direction. il Elec Ry J 65:888 Je 6 '25
Simplified transfer in Worcester. il Elec Ry J 64:42 Jl 12 '24
Symbols replace dates on new Los Angeles transfers. il Elec Ry J 62:967 D 8 '23

STREET railroads—Transfers—*Continued*
Transfer use reduced 63 per cent on New York & Queens county railway. Elec Ry J 65:377 Mr 7 '25
Transfers issued with one operation. Elec Ry J 66:793 O 31 '25

Valuation

A. E. R. A. report on valuation. Elec Ry J 64:589-94 O 11 '24; Conclusions. Aera 13:389-90 O '24; Eng & Contr (Ry) 62:1131-3 N 19 '24
A.E.R.A. committee report on valuation. Elec Ry J 66:584-6 O 10 '25
Court has Kansas City valuation. Elec Ry J 66:379-80 S 5 '25
Court voids valuation placed on Capital traction company's property in 1919. Comm & Fin Chr 121:328 Jl 18 '25
$8,100,000 value fixed at Norfolk. Elec Ry J 62:952 D 1 '23
Minneapolis valuation before Minnesota commission. Elec Ry J 62:817-18 N 10 '23
St Paul valuation before Minnesota commission. Elec Ry J 63:655-6 Ap 26 '24
$16,500,000 Atlanta valuation figure questioned. Elec Ry J 65:317 F 21 '25
Twin City valuation $42,949,191. Elec Ry J 65:430-1 Mr 14 '25
Valuation appeal of the Philadelphia rapid transit company argued. Elec Ry J 62:1068 D 22 '23
Valuation problems and policies; abstracts. W. H. Malthie. Aera 14:741-6 N '25; Elec Ry J 66:607-9 O 10 '25

Wages

Arbitration of wages in Cleveland concluded. Elec Ry J 63:863, 993 My 31, Je 21 '24
Arbitration problems. L. Vickers. Aera 13: 1296-1304 Mr '25
Atlanta employees receive increase of 3 cents an hour. Elec Ry J 65:827 My 23 '25
Bonus for increased revenue. Elec Ry J 63: 583-4 Ap 12 '24
Boston Elevated pay held fair. Elec Ry J 66:794-5 O 31 '25
Electric railway costs and fares in 1924. A. S. Richey. Elec Ry J 65:15-17 Ja 3 '25
Issues in Massachusetts wage arbitration. Elec Ry J 63:725-7 My 10 '24
Mitten management considers changing Philadelphia wage basis. J. M. Shaw. Elec Ry J 64:845 N 15 '24
Ninety-cent rate asked on Cleveland railway. Elec Ry J 63:632 Ap 19 '24
Pay increases refused in San Francisco. Elec Ry J 65:271 F 14 '25
Providence arbitrators analyze basis of wages. Elec Ry J 66:119-20 Jl 25 '25
Railway rejects Cleveland wage award. Elec Ry J 63:905-6, 944-5 Je 7-14 '24
Street railways, Atlanta; wages for 1924. Monthly Labor R 18:1296-7 Je '24
Strong case by dissenting arbitrator in Atlanta recent wage dispute. Elec Ry J 65: 1027-8 Je 27 '25
Use of statistical charts in wage negotiations. M. S. Merwin and H. Davis. Aera 14:402-9 O '25
Wage agreements in East St Louis. Elec Ry J 63:788 My 17 '24
Wage increase in Massachusetts cities. Elec Ry J 63:945 Je 14 '24
Wages and fares up in Boston. Elec Ry J 66: 563 O 3 '25

Australia

Australian electric railway mileage increasing. Elec Ry J 66:194 Ag 8 '25

Canada

$50,000,000 gross for Canada. Elec Ry J 64: 749 O 25 '24; Discussion. 64:917 N 29 '24

Connecticut

Former rates restored in Connecticut. Elec Ry J 63:160-1 Ja 26 '24
Line once abandoned modernized and made profitable; New Haven to Saybrook. il Elec Ry J 64:343-5 S 6 '24

Europe

City fares in northern and central Europe. A. Winter. Elec Ry J 64:924-6 N 29 '24
Graphs of European tramway statistics. Elec Ry J 65:145 Ja 24 '25
Observations on foreign practice. J. W. Welsh, H. A. Johnson and H. L. Brown. il maps Elec Ry J 64:417-59 S 20 '24; Discussion. 64: 957, 1080-2; 65:104, 341 D 6, 27 '24, Ja 17, F 28 '25
What we can learn from European railways. Elec Ry J 64:413-15 S 20 '24

France

Les transports en commun de la région parisienne. C: Dantin. il maps Génie Civil 85:310-15, 344-5 O 11-18 '24

Great Britain

British steam railroads carry much local traffic in cities. W. Jackson. Elec Ry J 65:621 Ap 18 '25
Operating characteristics of trams in England and United States cities compared. Elec Ry J 64:456-8 S 20 '24
Tramways and light railways in 1922-23. Elec R (Lond) 94:431 Mr 14 '24
Tramways and light railways in 1923-24. Elec R (Lond) 96:73 Ja 9 '25
Tramways and roadways; the advantages of traffic segregation. T. Molyneux. Elec R (Lond) 94:352-3 F 29 '24

Japan

Extent of damage to Japanese electric railways by the earthquake. S. Sano. il Elec Ry J 62:1066-7 D 22 '23

Kentucky

How Kentucky system has been modernized. Elec Ry J 62:974 D 8 '23

Massachusetts

Massachusetts towns provide their own transportation; towns of Athol, Orange, Greenfield and Montague take over lines. map Elec Ry J 65:59-61 Ja 10 '25
Massachusetts towns worried at prospect of withdrawal of railway service. Elec Ry J 62:1024 D 15 '23

New Jersey

Coordinated transportation. H. C. Clark. Aera 12:921-8 Ja '24; Abstract. Bus Transportation 3:40 Ja '24

See also Public service railway of New Jersey

New York (state)

More ride in winter in New York. Elec Ry J 63:189-90 F 2 '24
Some comments on the electric railway industry. L. S. Storrs. Elec Ry J 66:7-9 Jl 4 '25

Ontario

Hydro-electric railways report. Elec Ry J 64: 336-7 Ag 30 '24

Pennsylvania

Many railway improvements in central Pennsylvania. il diag map Elec Ry J 64:1073-7 D 27 '24

Southern states

Railway prospects brighter in the South. J. A. Miller, jr. il Elec Ry J 63:923-6 Je 14 '24
Records of Southern properties show improvement. Elec Ry J 66:325-6 Ag 29 '25

Switzerland

Basel tramway system. C. M. Hitch. Aera 12:1398-1400 Mr '24

Texas

Electric railways keep pace in rapidly growing Texas cities. C: Gordon. il maps Elec Ry J 65:1009-14 Je 27 '25

United States

America's electric railways. T: N. McCarter. Aera 12:1167-75 F '24

STREET railroads—United States—*Continued*
Back over the year with a skip and a jump. G. J. MacMurray. Elec Ry J 63:14-17 Ja 5 '24
Bright prospects for 1925. E. J. Murphy. Aera 13:1085-93 F '25
Broader service to the public. L. S. Storrs. Aera 13:2004-10 Jl '25
Census report shows status of electric railways. Elec Ry J 65:305-9 F 21 '25
Closer cooperation between all the branches of the electric railway industry is urgent need. J. N. Shannahan. Aera 13:1496-1501 Ap '25
Conditions in the electric railway industry. B. I Budd. Elec J 21:455-6 O '24
Conditions in the industry. F. C. Chambers. Aera 12:2015-22 Jl '24
Consider the street car. C. T. Crowell. Aera 14:412-20 O '25
Electric railway situation. J. W. Welsh. Aera 12:735-41 D '23; Excerpts. Eng & Contr (Ry) 60:1088-9 N 21 '23
Electric railways on firm basis. B. I. Budd. Elec Ry J 63:364-5 Mr 8 '24
Future is hopeful. B. C. Cobb. Elec Ry J 66: 610-12 O 10 '25
Good progress made in 1923. B. I. Budd. Aera 12:1187-8 F '24
Increasing confidence in electric railway future. H. Reid. Elec Ry J 65:111-12 Ja 17 '25
Managing director for traction. J. N. Shannahan. il Nation's Business 13:42-4 Je '25
Notes on the news of the year. G. J. MacMurray. Elec Ry J 65:9-13 Ja 3 '25
Progress of the industry. E. J. Murphy. charts Aera 13:710-17 N '24
Railways have met the test. R. B. Stearns. Aera 13:169-74 S '24
Reviewing the situation. J. N. Shannahan. Aera 13:1097-8 F '25: Same. Elec Ry J 65: 154 Ja 24 '25
Statistics showing the extent of the industry. Elec Ry J 65:367-8 Mr 7 '25
Transportation acts and the electric railways. J: J. Esch. Elec Ry J 65:290-1 F 21 '25
$262,000,000 for new plant and equipment and maintenance materials. Elec Ry J 63:4 Ja 5 '24
We don't stand still! J: W. Colton. Aera 13: 1-9 Ag '24
What the census shows. E. J. Murphy. Aera 12:1352-5 Mr '24

STREET railroads, Municipal
Massachusetts towns provide their own transportation; towns of Athol, Orange, Greenfield and Montague take over lines. map Elec Ry J 65:59-61 Ja 10 '25

See also Street railroads—Municipal ownership; *also* Detroit, Michigan—Rapid transit; San Francisco—Rapid transit; Seattle—Rapid transit

STREET railway motors. See Electric motors, Railway

STREET signs
Illuminated street guides in University City, Missouri. T. Croft. il Munic & Co Eng 67: 43-5 Jl '24; Same, with diags. Eng & Contr (R & S) 62:496-8 S 3 '24; Same cond. Elec W 84:472-3 S 6 '24; Abstract. Pub Works 55: 245-6 Ag '24
Illuminated street sign for St. Louis. il Eng N 93:351 Ag 28 '24

STREET trades
Drifter's challenge to advertising. A. H. Little. Nation's Business 12:34-6 Ag '24

STREET traffic
Automobile and city planning. A. Macauley. Pub Works 54:388-9 D '23
Automobile and community planning. J: Ihlder and others. Ann Am Acad 116:199-250 N '24
Cab traffic in Chicago. W: G. Beard. W Soc E J 29:109-10; Discussion. 110-11 Mr '24
City planning and the automobile. A. Macauley. Munic & Co Eng 68:217-20 My '25; Excerpts. Pub Works 55:285-6 S '24
City planning as a permanent solution of the traffic problem. A. S. Tuttle. Munic & Co Eng 68:246-51 My '25
City replanning. H. W. Corbett. il Pub Works 55:258-60 Ag '24
City transportation and street congestion. C. E. Smith. Elec Ry J 64:960-3 D 6 '24
Control of street traffic. 30p Merchants assn. of New York '24
Diverting through traffic around cities. Eng & Contr (R & S) 63:228 F 4 '25
Economic life of the city in relation to street traffic. C. A. Copper. Aera 14:193-200 S '25
Elements of the city traffic problem reviewed. J. R. Bibbins. Eng N 92:12-13 Ja 3 '24
European street congestion notably lighter. il Elec Ry J 64:435-7 S 20 '24
Facilitating vehicular traffic in cities. E. B. Lefferts. Elec Ry J 66:251-2 Ag 15 '25
How shall we solve traffic problems? J. R. Bibbins. Elec Ry J 63:285-6, 325-8 F 23-Mr 1 '24
Immediate city planning work is needed to avoid future traffic troubles. J. R. Bibbins. Automotive Ind 50:912-13 Ap 24 '24
Increasing capacity of existing streets. Eng N 92:156-7 Ja 24 '24
Increasing the capacity of existing streets. A. S. Tuttle. il diags Am Soc C E Pro 50:593-605 My '24; Same. Eng & Contr (R & S) 62:7-12 Jl 2 '24; Discussion. Am Soc C E Pro 50:706-27, 898-900, 1129-31, 1311-14, 1513-15, 1606-15 My, Ag-D '24
Influence of zoning on the design of transportation services. J. R. Bibbins. map Am Soc C E Pro 51:247-57, pl 1 F '25; Discussion. 51:450-3 Mr '25
Light and traffic. M. Luckiesh. Elec W 83: 278 F 9 '24
Limit height of buildings. R. F. Kelker. Aera 12:1347-9 Mr '24; Same cond. Elec Ry J 63: 373-5 Mr 8 '24
London's traffic problems. L. Macassey. Aera 13:1000-16, 1200-13, 1315-24 Ja-Mr '25; Abstracts. Elec R (Lond) 95:570-1 O 17 '24; Engineer 138:402-3 O 10 '24; Engineering 118:522 O 10 '24
Methods of estimating future street traffic. E. P. Goodrich. Eng & Contr (R & S) 62:1031-3 N 5 '24; Same. Good Roads 67:161-2 D '24
Metropolitan traffic problems. H. Bartholomew. Elec Ry J 65:818-19 My 23 '25
Montreal traffic survey maps. Can Eng 48: 490 My 12 '25
Motor bus traffic in Chicago. J. A. Emery. W Soc E J 29:112-15 Mr '24
"Move over, brother;" the community safety movement as it is being worked out in New England communities. L. E. MacBrayne. Elec Ry J 63:897-8 Je 7 '24
Necessity for planning far ahead for traffic control in all cities. Manuf Rec 88:69-70 Jl 9 '25
Neck of the highway transportation bottle. C. C. Williams. Munic & Co Eng 68:93-8 F '25; Same. Eng & Contr (R & S) 63:686-91 Ap 1 '25
Our rights on the highway. R. B. Stoeckel. il Nat Safety N 8:19-20 D '23
Pedestrian traffic. H. E. Young. il diags plans W Soc E J 29:65-86 Mr '24; Abstract. Elec Ry J 63:291-5 F 23 '24
Planning transportation in city development. C. E. Smith. Elec Ry J 66:615-16 O 10 '25
Private auto traffic. Z. C. Elkins. W Soc E J 29:102-6; Discussion. 106-8 Mr '24
Remedies for street congestion. H. Bartholomew. Aera 12:1329-38 Mr '24; Same cond. Elec Ry J 63:366-9 Mr 8 '24; Same cond. Eng N 92:766-7 My 1 '24; Discussion. Aera 12:1339-49 Mr '24
Report of committee on relief of traffic congestion of the Transportation and traffic association. Aera 13:341-9 O '24; Same cond. Elec Ry J 64:658-60 O 11 '24
Sales of automotive vehicles limited by traffic conditions. map Automotive Ind 50: 1184-5 My 29 '24
Solving the city terminal problem. T. C. Powell. Munic & Co Eng 69:60-5 Ag '25; Excerpts. Ry Age 78:1467 Je 13 '25
Some aspects of the traffic problem. C. A. Copper. Aera 13:1974-7 Jl '25
Speeding up traffic safely. J. C. Long. Elec Ry J 66:830-1 N 7 '25

STREET traffic—*Continued*
Steadily improving conditions. J. N. Shannahan. Aera 13:1346-8 Mr '25
Strassendurchbrüche als mittel für die lösung des Berliner verkehrsproblems. map Elektrotech Zeit 46:1522-5 O 1 '25
Street congestion as viewed by a railway operator. J: J. Stanley. Aera 12:1553-8 Ap '24
Street congestion problem. R. B. Hill. il Elec J 21:472-3 O '24
Street traffic control. M. McClintock. 233p McGraw-Hill '25
Streets becoming choked. J: W. Colton. il Aera 12:742-56, 933-68, 1123-47 D '23-F '24
Suggests transportation plan for Chicago. W Soc E J 29:[current news]24-7 F '24
Super-streets and subways—tentative details of a traffic plan recommended for New York city. il map Sci Am 131:149 S '24
Technische- wirkungen gesteigerten kraftwagenverkehrs. K. A. Müller. Zeit Ver Deutsch Ing 68:1293-7 D 13 '24
Track removal will not relieve congestion; discussion. Elec Ry J 63:857-8; 64:207 My 31 Ag 9 '24
Traffic and city streets. il diags Pub Works 55:44-6 F '24
Traffic congestion costing Manhattan $500,000 per day. L. H. Allen. Automotive Ind 53: 711-12 O 22 '25
Traffic congestion problem; report of committee of the Transportation and traffic association. Aera 14:461-4 O '25
Traffic congestion studies in Detroit. H. M. Gould. Elec Ry J 65:811-12 My 23 '25
Traffic problems and city planning. diag Pub Works 55:260-1 Ag '24
Traffic problems and suggested remedies. il Pub Works 55:177-80 Je '24
Traffic-transportation planning and metropolitan development. J. R. Bibbins. Ann Am Acad 116:205-14 N '24; Same. Eng & Contr (R & S) 64:1026-32 N 4 '25
Urban traffic problems. Can Eng 47:429-30 O 14 '24
Using the streets for the greatest good of the greatest number. J. R. Bibbins. Elec Ry J 62:813-14 N 10 '23
Vehicles should move in defined lines at fixed speeds. W: G. Beard. Elec Ry J 63:220 F 9 '24
What railway operators can do to improve traffic conditions. H. F. Fritch. Elec Ry J 63:845-7 My 31 '24
Where can I park my car? F. C. Kelly. Nation's Business 12:26-8 Je '24

See also Automobile laws and regulations; Automobile parking; Bridge traffic; Moving platforms; Road traffic; Safety isles; Street railroads—Traffic; Traffic regulations

STREETS
Automobile and community planning. J: Ihlder and others. Ann Am Acad 116:199-250 N '24
Changing the horse-and-buggy road to fit the automobile. S. D. Waldon. il maps charts diags plans Soc Auto Eng J 15:521-31 D '24
Column and beam construction will save Santa Monica expensive wall cost. diag Eng N 95:427 S 10 '25
Design of private drive entrances in relation to street traffic. G: H. Herrold. diags Eng N 94:160 Ja 22 '25
Designing street systems for estimated future traffic. E. P. Goodrich. Munic & Co Eng 67:169-70 O '24; Same. Pub Works 56: 28-9 Ja '25
Fire-proof streets in Astoria. Pub Works 56: 11-12 Ja '25
Hazards and safeguards of highway structure; report of National conference on street and highway safety. Eng N 94:15-20 Ja 1 '25; Abstract. Génie Civil 86:441-2 My 2 '25
Highways and traffic. F. S. Besson. il diags Soc Auto Eng J 14:594-601 Je '24
Influence of zoning on the design of the street system. T. G. Phillips. Am Soc C E Pro 51:224-31 F '25
Novel concrete street work in Santa Monica. M. J. Phillips. Concrete 27:39 S '25
Obstructions and holes in streets and roads. J: Simpson. Pub Works 56:246-9, 283-5 Jl-Ag '25
One-story streets and four-story cities. Eng & Contr (R & S) 62:1202-3 D 3 '24
Practice in street and sidewalk design in various cities; report of the A.S.M.I. committee. Munic Eng 65:285-8 D '23; Same abr. Eng & Contr (R & S) 60:1174-6 D 5 '23; Excerpts. Eng N 91:894 N 29 '23
Procedure in paving departments of various cities. Munic & Co Eng 67:78-82 Ag '24
Proposed reinforced concrete construction over streets to relieve traffic congestion. C: Hurst. diag Concrete 27:39 Ag '25
Reconstructed gutter section provides additional parking space. diag Eng N 94:892 My 28 '25
South Water street improvement. H. E. Young. W Soc E J 30:73-80 Mr '25
Street at two levels serves sidehill residence property. il Eng N 94:1068-9 Je 25 '25
Street improvement acts of California (including amendments of 1925). W: J. Locke, comp. 233p A. Carlisle & co., San Francisco '25
Street intersection with curved layout. diag Eng N 93:599 O 9 '24; Discussion. 93:804, 1008 N 13, D 18 '24
Street intersections. Eng & Contr (R & S) 64:309 Ag 5 '25
Street platting and railroad right of way. D. W. Pontius. diags Eng & Contr (Ry) 61:1116-19 My 21 '24; Same abr. Aera 12:1195-6 F '24
Streets, roads and pavements. H: G. Whyatt. 140p Pitman '23
Traffic and city streets. il diags Pub Works 55:44-6 F '24
United States develops distinctive roads; notable streets of the world. Good Roads 66:136+ My '24

See also Alleys; Arcades; Bridge approaches; City planning; Curbs; Driveways; Highway law; Manholes; Pavements; Roads; Safety isles; Sidewalks; Snow removal; Street cleaning; Street lighting; Street openings; Street traffic; Subways (streets); Traffic regulations; *also* subdivision Streets under names of cities, e.g. London—Streets; New York (city)—Streets; San Francisco—Streets

Double decking

Design and construction features of the South Water street improvement. T. A. Evans. diags plans W Soc E J 30:80-94; Discussion. 94-5 Mr '25
Design and structure of double-deck street, Chicago. il diags plans Eng N 95:632-5, 662-5 O 15-22 '25
Double decked, South Water street improvement in Chicago. P. E. Green. Munic Eng 66:4-6 Ja '24
Increasing the capacity of existing streets. C. D. Hill and J. L. Crane, jr. il Am Soc C E Pro 50:713-21 My '24; Same. Eng & Contr (R & S) 62:292-4 Ag 6 '24
Inundation used on Wacker drive, Chicago. il Concrete 27:17-21 S '25
South Water street improvement. H. E. Young. W Soc E J 30:73-80 Mr '25
Unique two-level street obviates costly grading. H. W. Levy. il Eng N 91:853-4 N 22 '23

Finance

Apportionment of motor vehicle fees, gasoline and county road taxes for use on city streets. D. C. Sowers. Munic & Co Eng 67: 3-7 Jl '24; Discussion. A. M. Wilson. 67:76-7 Ag '24
Apportionment of street improvement costs at Baker, Oregon. P. H. Anderson. Eng N 95:474-5 S 17 '25
Street widening methods with particular reference to distributing the cost. H. Bartholomew. Munic & Co Eng 67:33-41 Jl '24; Same. Eng & Contr (R & S) 62:503-11 S 3 '24

Grades

Readjustment of grades on steep hills. il Eng & Contr (R & S) 64:979-81 N 4 '25

STREETS—Grades—*Continued*
Reducing street grades by winding brick pavement and retaining walls. il Eng & Contr (R & S) 64:809-10 O 7 '25

Maintenance and repair

Maintenance of macadamized streets. O. E. Stanley. il Eng & Contr (R & S) 64:281-4 Ag 5 '25

Widening

Public improvements in Oak Park, Ill. D. C. Meyers. il Pub Works 55:276-8 S '24
Resurfacing and widening existing pavements. A. J. Schafmayer. Eng & Contr (R & S) 63: 972-9 My 6 '25; Same. W Soc E J 30:306-14 Jl '25; Same. Munic & Co Eng 69:105-12 Ag '25; Discussion. W Soc E J 30:314-18 Jl '25
Street widening in Uniontown. W. L. Dunn. il Pub Works 55:227-8 Jl '24
Street widening in Wilkinsburg. C: F. Sperling. il Pub Works 55:182-3 Je '24
Street widening methods with particular reference to distributing the cost. H. Bartholomew. Munic & Co Eng 67:33-41 Jl '24; Same. Eng & Contr (R & S) 62:503-11 S 3 '24
Street widening; with tabulation and estimated cost. Pub Works 55:180-1, 203-4 Je '24

Width

Width of streets; with tabulation. Pub Works 55:180-1, 202-3 Je '24

STRENGTH of materials
Current structural research at Bureau of standards. il Eng N 91:874-7 N 29 '23
La détermination de la résistance des systémes hyperstatiques. H: Barth. Génie Civil 84:478-80 My 17 '24
Essais de résistance sur quelques types d'assemblage pour charpentes en bois. F: Cretin. il diags Génie Civil 86:9-12 Ja 3 '25
Factor chart for tensile strength. Foundry 53:396a, 442a My 15-Je 1 '25
Die frage des baustoffes im leichtbau. P. Meyer. Zeit Ver Deutsch Ing 68:555-6 My 31 '24
Graduated course in strength and elasticity of materials. E: P: Coston. 2v 276p; 448p Van Nostrand '25
Materialprüfung und baustoffkunde für den maschinenbau. W. Müller. 370p R. Oldenbourg, München and Berlin '24
Physical properties of materials; strengths and related properties of metals and wood. diags U S Bur Stand Circ 101:1-204 [bibliog. p. 194-8] '24
Properties of engineering materials. W: C: Popplewell and H. Carrington. 546p Methuen & co., London '23
La résistance des joints en construction métallique. Decouflé. diags Génie Civil 86: 479-83 My 16 '25
Resistance of materials. F. B. Seely. 442p Wiley '25
Section modulus of unsymmetrical sections. E. Latshaw. diags Mach 31:518 Mr '25
Significance of common physical properties of structural materials. F. H. Moore. diags Soc Auto Eng J 17:175-80; Discussion. 180-2 Ag '25
Strength of materials. J. E. Boyd. 3d ed. 430p McGraw-Hill '24
Strength of materials. J: Case. 558p Longmans '25
Strength of materials. J: P. Kottcamp. 2d ed. Wiley '24
Strength of materials. E: R. Maurer and M. O. Withey. 382p Wiley '25
Strength of materials. A. P. Poorman. 313p McGraw-Hill '25
Structural engineering. G: F. Swain. 2v 569p; 200p McGraw-Hill '24; Review by W. K. Hatt. Eng N 94:120-2 Ja 15 '25
Tangent modulus and the strength of steel columns in tests. O. H. Basquin. U S Bur Stand Tech Pa 263:381-442 '24
Useful strength of new, old and treated timber; appendix to report of A.R.E.A. committee. Ry R 76:611-13 Mr 28 '25

See also Bending moment; Building materials; Deformations (mechanics); Elastic limit; Elasticity; Graphic statics; Impact; Metals—Testing; Plywood; Steel—Testing; Strains and stresses; Structures, Theory of; Testing; Trusses; Wood—Testing

STRIKE insurance. See Insurance, Strike

STRIKES and lockouts
Strikes and lockouts. Published in monthly numbers of Monthly labor review
Strikes that never happened; work of the Railroad labor board. R. S. Henry. il Nation's Business 13:42-4 Ja '25
University debaters' annual. E. M. Phelps. p 1-57 H. W. Wilson co. '24

See also Arbitration, Industrial; Industrial relations; Insurance, Strike; Labor and laboring classes; Trade unions; *also* Coal strike, 1922; Coal strike, 1925; Railroad shopmen's strike, 1922

Law

U. S. Supreme court decides a strike is not a conspiracy; strikers entitled to trial by jury in contempt proceedings. Prof Eng 9: 26-7 D '24

Belgium

Strikes and lockouts in Belgium in 1923. Monthly Labor R 18:1374-5 Je '24

Canada

Enquiry before strikes—the Canadian experiment. Economist 98:574-6 Mr 15 '24
Strikes and lockouts in Canada in 1924. Monthly Labor R 20:929-30 Ap '25
Termination of mail workers' strike in Canada. Comm & Fin Chr 119:286-8 Jl 19 '24

Chile

Strikes in Chile, 1911 to 1923. Monthly Labor R 21:195 Jl '25

Czechoslovakia

Settlement of Czechoslovak national coal strike. Monthly Labor R 18:168-9 Ja '24
Strikes and lockouts in Czechoslovakia, 1922. Monthly Labor R 17:1409 D '23

Germany

Strikes and lockouts in Germany, 1922. Monthly Labor R 17:1198-1201 N '23
Strikes and lockouts in Germany, 1923. Monthly Labor R 20:1400-4 Je '25

Great Britain

Dockers' strike and settlement. Engineering 117:245-6 F 22 '24
Strike of British wool textile workers. Comm & Fin Chr 121:781 Ag 15 '25

Italy

Industrial strikes and lockouts in Italy, 1922. Monthly Labor R 17:1202-4 N '23

Netherlands

Strikes and lockouts in the Netherlands, 1922. Monthly Labor R 18:907-8 Ap '24

Nova Scotia

Strike in Nova Scotia coal mines. Monthly Labor R 21:191-4 Jl '25

Philippine Islands

Strikes in the Philippine Islands in 1922. Monthly Labor R 18:168 Ja '24

Poland

Polish strikes in 1923. Monthly Labor R 19: 227 Jl '24

Spain

Strikes in Spain, 1905 to 1923. Monthly Labor R 20:931 Ap '25

Sweden

Labor disputes in Sweden in 1923. Monthly Labor R 19:1194 N '24

STRIKES and lockouts—*Continued*

United States

Labor disputes and the president of the United States. E: Berman. (Columbia univ. studies) 284p [bibliog. p. 275-80] Longmans '24

Strike in the women's wear manufacturing trades of New York. Comm & Fin Chr 119: 143 Jl 12 '24

Strikes and lockouts in the United States, 1916 to 1923. Monthly Labor R 18:1366-74 Je '24

Strikes and lockouts in the United States, 1916-1924. Monthly Labor R 20:1390-1400 Je '25

STRINGED instruments

Combined vibration of a bar and string, and the wolf-note of a stringed instrument. W. B. Morton and F. M. Chambers. Philos Mag 6th ser 50:570-88 S '25

STRINGS

Vibration

Delemer and the Lamb theories of the struck string. W. H. George. Philos Mag 6th ser 48:48-55 Jl '24

Forces at the ends of a vibrating string. W. H. George. Philos Mag 6th ser 49:97-106 Ja '25

Helmholtz theories of the struck string. W. H. George. Philos Mag 6th ser 47:591-602, pl 3; 48:34-43, pl 1-3 Mr, Jl '24

Partial tones of the struck string. W: H. George. Philos Mag 6th ser 50:491-9, pl 13-16 Ag '25

STRIP steel. See Sheet steel

STRIPPING. See Coal mines and mining—Stripping operations

STROBOSCOPIC instruments

Die aufnahme von anfahr- oder auslaufkurven mit der stroboskopischen scheibe. K. Obermoser. il Elektrotech Zeit 45:428-30 My 1 '24

Intermittent illumination in industry, with special reference to its use for the examination of moving bodies. J. F. Crowley. il diags Illum Engr 16:189-211 Ag '23; Same cond. Textile Inst J 15:P93-9 Ap '24

Kinematics; the analysis of complex rapid mechanical motions. A. W. Judge. il diags Automobile Eng 14:265-70 S '24

La réalisation de très grandes vitesses de rotation. E. Henriot and E. Huguenard. diag Génie Civil 86:538-9 My 30 '25

Rotostat attachment. il Mach 31:325 D '24

Stroboscopic determination of speeds and frequencies. G. E. Moore. il Engineer 139: 209-11 F 20 '25

Über die stroboskopische darstellung von fliehkraftfehler-wirkungen an körpern mit senkrechter welle. H. Hort. il diags Zeit Ver Deutsch Ing 68:857-9 Ag 16 '24

Über schlüpfungs- und drehzahlmessungen. R. Vieweg and H. E. Linckh. diag Elektrotech Zeit 46:1107-8 Jl 23 '25

See also Rotoscope; Vibroscope

STRONTIUM

Barium and strontium amalgam electrodes. P. S. Danner. diags Am Chem Soc J 46: 2385-90 N '24

Preparation of very pure barium and strontium. P. S. Danner. diag Am Chem Soc J 46:2382-5 N '24

Production and outlet for strontium minerals. G: W. Stose. Eng & Min J 116:861 N 17 '23

STRONTIUM chloride

Activity coefficients and transference numbers of the alkaline earth chlorides. W. W. Lucasse. diags Am Chem Soc J 47: 743-54 Mr '25

STRUCTOLITE. See Gypsum concrete

STRUCTURAL drawing

Structural drafting and the design of details. C. T. Bishop. 2d ed., rev. 362p Wiley '25

STRUCTURAL materials research laboratory

How one industry concentrates its research. D. A. Abrams. il Chem & Met Eng 31:539-42 O 6 '24

STRUCTURAL shops

Care of construction plant equipment. J. E. Buhl. il plans Concrete 25:232-4 D '24; Same cond. Eng & Contr (Bldgs) 62:893-5 O 22 '24

Contractor maintains service and repair plant. il plans Eng N 94:100-3 Ja 15 '25

Heating and ventilation

Unit heater installation. J. Mackay. plans Dom Eng 112:29-30+ Ag 15 '25

STRUCTURAL steel. See Steel, Structural

STRUCTURAL steel board of trade

Formation of Board of trade by fabricators of structural steel. Comm & Fin Chr 121:921 Ag 22 '25

STRUCTURES, Theory of

Principle of virtual velocities and its application to the theory of elastic structures. E. H. Lamb. 56p Institution of civil engineers, London '23

Steel and timber structures. G: A. Hool and W. S. Kinne, eds. 695p McGraw-Hill '24

Structural engineering. J. Husband and W: Harby. 3d ed., rev. & enl. 458p Longmans '24

See also Building; Graphic statics; Strains and stresses; Strength of materials

STRYCHNINE

Strychnine and brucine. G: R. Clemo, W: H: Perkin, jr. and R. Robinson. Chem Soc J 125:1751-1804 S '24

Strychnine and brucine; the position of the methoxyl groups in brucine. F. Lions, W: H: Perkin, jr. and R. Robinson. Chem Soc J 127:1158-69 My '25

STUCCO

Artistic stucco residence; with quantity survey. plans Bldg Age 45:46-9 N '23

Color and texture in stucco. Eng & Contr (Bldgs) 62:1378 D 24 '24

Finishes in stucco. S: Warren. il Am Concrete Inst Pro 21:197-203 '25

Getting good results with stucco on frame buildings. A. C. Irwin. il Eng & Contr (Bldgs) 61:195-200 Ja 23 '24

How to apply textured stucco finishes told chiefly in pictures. S: Warren. il Concrete 25:133-40, 175-8 O-N '24

Lime stucco; abstracts. Am Inst Arch J 12: 46, 102 Ja-F '24; Am Arch 126:254 S 10 '24

Modernizing old buildings by use of stucco. S: Warren. il Am Arch 126:539-43 D 3 '24

New operating methods in calcining and grinding gypsum. A. W. Allen. il diag plan Chem & Met Eng 29:919-20 N 19 '23

Portland cement stucco. S: Warren. diags Am Arch 126:225-8, 269-72, 319-24, 365-72 S 10-O 22 '24

Proper finish of stucco work. F. Jay. Bldg Age 46:98+ Ag '24

Reducing fire risk in residential construction; house of Wharton Clay, Winnetka, Ill. il plans Arch Forum 40:197-200 My '24

Remodeling and overcoating with Portland cement stucco. S: Warren. il Concrete 26: 198-200 Je '25

Stucco and plastering investigation. Am Inst Arch J 13:41 Ja '25

Stucco resisted Berkeley fire. il Concrete 26:63 F '25

Use of half timber, stucco and brick shown in some recent work of Frank J. Forster. il plans Arch Forum 43:225-32 O '25

STUDEBAKER corporation

Annual report, 14th, for year ended Dec. 31, 1924. Comm & Fin Chr 120:1198 Mr 7 '25

History of the Studebaker corporation. A. R. Erskine. 229p Studebaker corp., 2040 Bway., New York '24

Our men build their souls into Studebaker cars. B. C. Forbes. Forbes 14:95-7+ Ap 26 '24

STUDEBAKER corporation—*Continued*
Studebaker corporation. Moody's Inv Serv 16: 393-6 O 23 '24
Studebaker gray iron foundry largest. G. L. Lacher. il plans Iron Age 114:835-42 O 2 '24
Tunnels facilitate handling of material in new foundry. P. Dwyer. il plan Iron Tr R 75: 879-83+ O 2 '24; Same abr. Foundry 52: 806-12 O 15 '24

STUDIOS
A living studio at Los Angeles, Calif. il plan Am Arch 128:293 S 23 '25
Store and studio building for J. Harvey McCarthy co., Los Angeles, Calif.; views and plans. Am Arch 127:pl 89-91 Ap 8 '25

STUDS. See Bolts and nuts

STUDY
Economical learning. M. Wenk. J Eng Educ 15:771-84 Je '25
Experiment in teaching freshman in engineering how to study. T: P. Harrison. J Eng Educ 15:190-4 N '24

STUMPS. See Clearing of land

STYLE, Literary
Importance of achieving a copy style. J. Wallen. Ptr Ink 125:125-6+ D 27 '23
Reports, their style and diction. E. Reckitt. J Account 39:99-110 F '25

STYLE, Typographical. See Printing, Practical—Style

STYLE in dress. See Fashion

STYLE manuals. See Printing, Practical—Style manuals

STYRENE oxide
Benzoylhydroperoxide: preparation and application to organic synthesis. H. Hibbert and C. P. Burt. Am Chem Soc J 47:2240-3 Ag '25

STYRYLBENZOPYRYLIUM salts
Styrylbenzopyrylium salts; distyryl derivatives of 7-hydroxy-2:4-dimethylbenzopyrylium chloride. I. M. Heilbron, G: H. Walker and J. S. Buck. Chem Soc J 127:690-6 Mr '25
Styrylbenzopyrylium salts; the 2-styryl derivatives of 7-hydroxy-2-phenyl-4-methylbenzopyrylium chloride. J. S. Buck and I. M. Heilbron. Chem Soc J 123:2521-31 O '23
Styrylbenzopyrylium salts; γ-styryl derivatives of 5:7-dihydroxy- and 5:7-dimethoxy-2-phenyl-4-methylbenzopyrylium chloride. G: H. Walker and I. M. Heilbron. Chem Soc J 127:685-9 Mr '25

STYRYLCHROMONOL
Synthesis of certain 2-styrylchromonol derivatives. R. Robinson and J. Shinoda. Chem Soc J 127:1973-80 S '25

SUBELECTRONS
Mathematical statistical investigation concerning sub-electrons. H. Daecke. Philos Mag 6th ser 50:637-44 S '25

SUB-HARMONICS. See Music—Acoustics and physics

SUBJECT headings
Boston catalogers discuss subject headings at meeting held April 15. Lib J 50:493-5 Je 1 '25
Edinburgh public libraries; directory of subjects of books contained in the libraries. J. A. Burnett, ed. 171p Edinburgh public libraries committee, Edinburgh '24
List of subject headings for an accident prevention, health and hygiene information file. M. B. Day, comp. 11p National safety council, 168 N. Michigan Av., Chicago '24
List of subject headings for information file [Newark Public library]. H. F. Gould and E. A. Grady, comps. 2d ed. 88p H. W. Wilson co. '25
Tentative decimal classification and system of subject headings for the literature of business. F. Rider. 333p Cumulative digest corp., New York '24

SUBLIMATION
New micromelting point apparatus. J. F. Clevenger. il diags Ind & Eng Chem 16: 854-5 Ag '24

SUBLIMATION, Heat of
Heat of sublimation of carbon dioxide. J: W. Andrews. diags Am Chem Soc J 47:1597-1602 Je '25

SUBMARINE boats
Birth and development of the American submarine. F. T. Cable. 337p Harper '24
Development of the American submarine. il Sci Am 131:320-1 N '24
German submarine designs. O. Flamm. Engineering 118:837-8 D 19 '24
Giant submarines. il plans Sci Am 131:172 S '24
Italian theories of submarine construction. Engineering 118:232-3 Ag 15 '24
Loss of the United States navy submarine S.51. Engineering 120:420-1 O 2 '25
Submarine cruisers. M. de Vito. Engineering 120:88-9 Jl 17 '25
Submarine disaster. Engineering 117:82 Ja 18 '24
See also Diesel engines, Submarine

SUBMARINE diving. See Diving, Submarine

SUBSIDENCES (earth movements)
Newington causeway subsidence. Engineer 137:490 My 2 '24
Subterranean collapse on the City and South London tube. Engineering 117:520 Ap 25 '24
See also Mine subsidences

SUBSIDIES. See Bounties; Ship subsidies

SUBSTATIONS, Electric. See Electric substations

SUBSTITUTES
Follies of 1950; satire on substitutes. G. L. Kaufman. Am Inst Arch J 13:343-5 S '25
How the Germans contrived to substitute one thing for another in the war period. C. P. Karr. Brass W 21:69-70 F '25
Substitute materials that improve the product. B. M. Maynard and W. S. Powers. il Factory 32:156-8+ F '24
See also Cotton, Substitutes for; Gasoline, Substitutes for; Platinum, Substitutes for; Wood, Substitutes for

SUBSTITUTION (chemistry)
Chemistry of Jaffe's reaction for creatinine; the effect of substitution in the creatinine molecule and a possible formula for the red tautomer. I. Greenwald. Am Chem Soc J 47:1443-8 My '25
Electron displacement in carbon compounds; polarity differences in carbon-hydrogen unions. H. J. Lucas, T: P. Simpson and J. M. Carter. Am Chem Soc J 47:1462-9 My '25
Influence of constitutional variation upon the absorption and stability to hydrogen ions of certain halogenated derivatives of fluorescein. W. C. Holmes. Am Chem Soc J 46: 2770-5 D '24
Influence of substituents on chemical and physical properties; the velocity of reaction between substituted benzoic anhydrides and an aliphatic alcohol. H. G. Rule and T: R. Paterson. Chem Soc J 125:2155-63 O '24
Influence of substituents on the formation of derivatives of 1-hydrindone from β-phenylpropionic acids. E. A. Speight, A. Stevenson and J. F. Thorpe. Chem Soc J 125:2185-92 O '24
Men and manners; a more excellent way. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 44:51-2 Ja 16 '25
Nature of the alternating effect in carbon chains. C. K. Ingold and E. L. Holmes. Soc Chem Ind J (Chem & Ind) 44:563 My 29 '25; Discussion. 44:607-8, 639-40 Je 12-19 '25
Nature of the alternating effect in carbon chains; a comparative study of the directive efficiencies of oxygen and nitrogen atoms in aromatic substitution. E. L. Holmes and C. K. Ingold. Chem Soc J 127:1800-21 Ag '25

SUBSTITUTION (chemistry)—*Continued*
Nature of the alternating effect in carbon chains; the directing influence of the α-methoxyvinyl group in aromatic substitution. C. K. Ingold and E. H. Ingold. Chem Soc J 127:870-5 Ap '25; Excerpt. Soc Chem Ind J (Chem & Ind) 44:227; Discussion. 227-8 F 27 '25
Nature of the alternating effect in carbon chains; the directive influence of the nitroso-group in aromatic substitution. C. K. Ingold. Chem Soc J 127:513-18 Mr '25
Polarity and activation. T. M. Lowry. Soc Chem Ind J (Chem & Ind) 44:970-2 O 2 '25
Quantitative reduction by hydriodic acid of halogenated malonyl derivatives; the influence of substitution in the amide group on the reactivity of the halogen atom in bromomalon-amide. R. W. West. Chem Soc J 127:748-53 Mr '25
Some factors influencing substitution in the benzene ring. A. F. Holleman. Chem R 1: 187-229; Bibliography. 229-30 Jl '24
Stability of hexa-substituted ethanes. A. E. Gray and C. S. Marvel. Am Chem Soc J 47: 2796-2802 N '25
Studies on the directive influence of substituents in the benzene ring; a chemical method for estimating the meta isomer in some disubstituted derivatives of benzene. A. W. Francis and A. J. Hill. Am Chem Soc J 46:2498-2505 N '24
Studies on the directive influence of substituents in the benzene ring; the active agent in aqueous bromination. A. W. Francis. Am Chem Soc J 47:2340-8 S '25
Studies on the directive influence of substituents in the benzene ring; the partial bromination of derivatives of aniline. A. W. Francis. Am Chem Soc J 47:2588-96 O '25
Studies on the directive influence of substituents in the benzene ring; the relative rates of bromination of certain ortho, meta and para isomers. A. W. Francis, A. J. Hill and J: Johnston. Am Chem Soc J 47:2211-32 Ag '25
Substitution in derivatives of quinol ethers. L. Rubenstein. Chem Soc J 127:1998-2004 S '25
Substitution in resorcinol derivatives; nitration of derivatives of β-resorcylaldehyde. M. G. S. Rao, C. Srikantia and M. S. Iyengar. Chem Soc J 127:556-60 Mr '25
Substitution in vicinal trisubstituted benzene derivatives. W: Davies and L. Rubenstein. Chem Soc J 123:2839-52 N '23
Theory of substitution in aromatic compounds. Soc Chem Ind J (Chem & Ind) 43:1161-2, 1266; 44:33-4, 83-5, 117-18, 172-3, 259-60, 683-4, 817-18 N 21, D 19 '24, Ja 9, 23-30, F 13, Mr 6, Jl 3, Ag 14 '25

See also Radicals (chemistry)

SUBSTITUTION (marketing problem)
Advertises sealed gasoline tanks to insure against substitution. Nat Pet N 17:39 O 14 '25
Can advertising be too successful? D. Hubbard. Ptr Ink 131:25-6+ Ap 16 '25
Court action against substitutors; Vacuum oil company and National better business bureau. Ptr Ink 132:120-1+ S 3 '25
Daring newspaper campaign against substitution; Tide water oil. J: A. Murphy. Ptr Ink 133:17-20 O 22 '25
Government uses advertising to combat substitution; Porto Rico tobacco. R. Rockafellow. Ptr Ink 126:105-6 Mr 27 '24
Try and get it. L. R. Alwood. Ptg Art 44: 250-2 N '24
We investigated 1,500 cases and found 850 infringers. P: S. Theurer. Ptk Ink 133:17-20 O 15 '25

See also Textile fabrics—Identification

SUBURBAN railroads. See Electric railroads; Interurban railroads; Railroads—Suburban traffic

SUBWAY cars. See Cars, Subway

SUBWAY sidewalks. See Sidewalks, Subway

SUBWAY stations
Sub-surface terminal for Los Angeles. il Elec Ry J 65:179-80 Ja 31 '25

Equipment

See also Change-making machines; Turnstiles, Fare collecting

SUBWAYS
Fifty-mile subway system for Tokyo is virtually assured. map Eng N 94:971-2 Je 11 '25
First unit of transit system for Pittsburgh proposed. map plan Eng N 94:555 Ap 2 '25
Rapid transit and interurban transportation for Chicago. B. I. Budd. W Soc E J 29:142-7; Discussion. 147-54 Mr '24
Reducing noise in train operation; extended series of tests of the London underground system. Elec Ry J 63:135-8 Ja 26 '24
Subway proposed in Pittsburgh. diags map Elec Ry J 65:409-13 Mr 14 '25
Subways cost less than street widenings and render maximum service to public; report of A.E.R.A. committee on rapid transit. Aera 14:448-53 O '25
Tokio may have subway. Elec Ry J 63:792 My 17 '24

See also Cars, Subway; Freight subways; Subway stations; *also* London—Subways; New York (city)—Subways

Construction

Construction methods on the Rochester subway. il diags plan Eng N 92:350-4 F 28 '24
Failure of a London tube while being rebuilt under traffic. diags Eng & Contr (Ry) 63: 359-63 F 18 '25
New tunnel in Los Angeles for Pacific electric railway company. E. C. Thomas. il diags map Aera 13:198-204 S '24
Philadelphia builds Broad Street subway. il plans Eng N 94:840-4 My 21 '25
Tunnel digging is begun in Los Angeles. C. A. Elliott. il diag map Elec Ry J 64:349-51 S 6 '24
Tunnel enlargement on a London tube railway. il Eng N 93:953 D 11 '24
Tunnel shovels for subway excavation. il Eng & Contr (Equip R) 64:238-9 Jl 29 '25
Work with compressed air tools on London tubes. B: Lee. il Eng & Contr (Ry) 62: 1107-8 N 19 '24

Fires and fire protection

Teaching firemen about a subway car. il Elec Ry J 64:15 Jl 5 '24

Lighting

Emergency protective systems in the Interborough subway. il diag map Elec Ry J 66: 128-9 Jl 25 '25

Safety devices and measures

Emergency protective systems in the Interborough subway. il diag map plans Elec Ry J 66:125-31 Jl 25 '25

Signals

Speed control in Interborough subway. il charts Elec Ry J 66:49-52 Jl 11 '25

Ventilation

Emergency protective systems in the Interborough subway. il plan Elec Ry J 66:125-6 Jl 25 '25
New ozone plant purifies air in Central London Ry. tubes. diags Eng N 94:321 F 19 '25

SUBWAYS (streets)
Jackson street subway, Camden terminal. il diags plan Ry R 75:279-81 Ag 23 '24
New Ontario street subway. il Can Eng 48: 235-6 F 17 '25
Subway eliminates crossing with peculiar conditions. il diags plan Ry R 75:18-21 Jl 5 '24
Trucking subway on San Francisco waterfront. F. G. White. plan Eng & Contr (Ry) 61:652-3 Mr 19 '24
Vehicular subway in San Francisco. C: W. Geiger. il Pub Works 56:377 O '25

SUBWAYS (streets)—*Continued*
Vehicular subway under Market street in San Francisco. diag plan Eng N 95:548-9 O 1 '25

See also Sidewalks, Subway

SUCCESS
Building up a successful character. S. B. MacDiarmid. Spectator 113:31-2 S 25 '24
Demands of a banking career. C: E. Mitchell. Bankers M 109:1157-8 D '24
How you can qualify for promotion. B. C. Forbes. Forbes 15:395-6+ Ja 1 '25
Leland Stanford said "the big thing is to do it." System 47:316-17 Mr '25
Lessons in achievement. H. A. Bruce. Forbes 15:222, 614+ N 15, F 15 '25
Making business advancement sure. W: M. Jackson. 140p Stokes '24
Riding hobbies to business success. A. C. Belden. Ptr Ink M 8:52+ Je '24
Road to greater success; self analysis chart. Prof Eng 10:16-18 Je '25
Success comes from within. E. Root. Forbes 15:163-4 N 1 '24
Thomas Cusack's rules of success. Ptr Ink 126:20 Mr 27 '24
Twelve tips on success and happiness. H. N. Casson. Forbes 16:167+, 242, 319+, 443+, 529+, 587+, 662, 729, 812, 874+ My 15-O 1; 17:15+ N 1; 30 N 15 '25
What is a captain of industry? A. C. Bedford. Nation's Business 13:26-7 N '25

See also Business management; Efficiency, Industrial; Saving; Wealth, Ethics of

SUCCINIC acid
Electrolytic preparation of *p*-phenylenediamine, aminosalicylic acid, succinic acid, and hydrocinnamic acid. J. F. Norris and E. O. Cummings. Ind & Eng Chem 17: 305-7 Mr '25
Syntheses of substituted succinic acids containing aromatic residues. W. Baker and A. Lapworth. Chem Soc J 127:560-7 Mr '25

SUCCINIMIDES
Tetra-alkyl-succinimides. A. W. Dox. Am Chem Soc J 47:1471-7 My '25

SUCCINYLFLUORESCEIN
Succinylfluorescein and its derivatives. S. Biggs and F. G: Pope. Chem Soc J 123: 2934-43 N '23

SUCKER rods
Large uses of steel in small ways. il Iron Tr R 76:1385 My 28 '25

SUDAN
Status of the Sudan. Economist 99:84-5 Jl 19 '24
Sudan development. Economist 98:1294-5; 99: 8-9 Je 28-Jl 5 '24

See also Cotton—Sudan

SUDAN plantations syndicate
Meeting, 17th, London, Nov. 12. Economist 99:784-5 N 15 '24

SUEZ canal
Tonnage carried through Suez canal in 1924. Comm & Fin Chr 121:785 Ag 15 '25

SUGAR
Adsorption effects of filtering materials on sugar solutions. G. H. Hardin and F. W. Zerban. Ind & Eng Chem 16:1175-7 N '24
Apparent concentration of the hydrogen-ion in solutions containing sucrose. T: W. J. Taylor and R. F. Bomford. Chem Soc J 125:2016-17 O '24
Cane sugar—the fuel that drives the human engine. H. S. Rubens. Comm & Fin 13:1188-9 Je 18 '24
Coffee and sugar facts. 111p Nortz & co., 96 Front st., New York
Influence of catalysts on carbonisation. R. Lessing and M. A. L. Banks. Chem Soc J 125:2344-55 N '24
Influence of water-insoluble matter upon polarization of raw cane sugars. G. H. Hardin. Ind & Eng Chem 16:55-6 Ja '24
Mutarotation lag in sucrose inversion. S. W. Pennycuick. Chem Soc J 125:2049-63 O '24
Rotatory dispersive power of organic compounds: the significance of simple rotatory dispersion—rotatory dispersion of camphorquinone and of sucrose. T: M. Lowry and E. M: Richards. Chem Soc J 125:2511-24 D '24
Story of sugar. C: F: Bardorf. 191p Chemical pub. co. '24
Sugar as a fire hazard—spontaneous combustion impossible. Spectator 112:40-1 Mr 27 '24
Sugar formation in a sulfite digester; quick-cook process. E. C. Sherrard and C. F. Suhm. Ind & Eng Chem 17:194-5 F '25

See also Beets and beet sugar; Invertase; Molasses; Sirups; Sugars

Analysis
Application of enzymes to beet sugar factory control. H. S. Paine and R. T. Balch. Ind & Eng Chem 17:240-6 Mr '25
Clarification of sugar products prior to the determination of reducing sugar. L. Eynon and J. H: Lane. Soc Chem Ind J 42:463-6 D 7 '23
Colorimetric determination of carbohydrates in plants by the picric acid reduction method; the estimation of reducing sugars and sucrose. W. Thomas and R. A. Dutcher. Am Chem Soc J 46:1662-9 Jl '24
Determination of dry substance in beet sugar juices. R. J. Brown. Ind & Eng Chem 16: 746-8 Jl '24
Dosage électif du sucre lévulose par la liqueur cuprocarbonatée de Ost; abstract. L. Nyns. Chimie & Ind 14:119-20 Jl '25
Effect of sodium carbonate concentration in the Benedict sugar method. A. J. Quick. Ind & Eng Chem 17:729-30 Jl '25
Effect of some inorganic salts on the polarization of sugar solutions. R. J. Brown. Ind & Eng Chem 17:39-40 Ja '25
Estimation of sugars in mixtures of sucrose, invert-sugar and lactose. H. Jessen-Hansen. Chem Soc J 124 pt 2:882-3 D '23
Preparation of Fehling's solution for the volumetric determination of reducing sugars. J. H. Lane and L. Eynon. Soc Chem Ind J 44: 150-2 Ap 3 '25
Rapid analysis of sugars; purification and concentration of enzyme solutions. F. W. Reynolds. diags Ind & Eng Chem 16:169-72 F '24

See also Molasses—Analysis

Color standards
Soft sugar color standards. H. I. Knowles. Ind & Eng Chem 17:980 S '25

Manufacture and refining
American chemical society; division of sugar chemistry. Chem & Met Eng 30:711-13 My 5 '24
Automatic char-filtration apparatus. W. D. Horne and E. W. Rice. il Ind & Eng Chem 15:1270 D '23
Brief account of the refining of sugar. C. M. Keyworth. Soc Chem Ind J (Chem & Ind) 44:723-5 Jl 17 '25
Cane sugar and its manufacture. H. C. P. Geerligs. 2d ed., rev. 360p Van Nostrand '24
Cane sugar in Cuba. A. M. Young. flow sheet il Chem & Met Eng 30:857-61, 902-6 Je 2-9 '24
Colloids in cane and beet sugar manufacture. H. S. Paine, M. S. Badollet and J. C. Keane. Ind & Eng Chem 16:1252-8 D '24
Commercial invert sugar; its manufacture and uses. S. Jordan. Ind & Eng Chem 16: 307-10 Mr '24
Comparative ash adsorption of vegetable and bone chars. P. M. Horton and P. T. Sengson. Ind & Eng Chem 16:165-7 F '24
Contribution of science to the sugar industry. H. I. Knowles. Can Chem & Met 9:182-5 Ag '25
Corrosion dragon in the sugar industry. flow sheet il Chem & Met Eng 31:58-60 Jl 14 '24
Defection in cane sugar manufacture. J. D. Bond. Ind & Eng Chem 17:492-5 My '25
Elements of sugar refining. C: F: Bardorf and J. A. B. Ball. 240p Chemical pub. co. '25

SUGAR—Manufacture and refining—*Continued*
Heat balance in the cane sugar factory. A. L. Webre. 89p U.S. cast iron pipe & foundry co., Burlington, N.J. '24
Hot saccharate process of the beet sugar industry. R. W. Shafor. flow sheet diags Am Inst Chem Eng Trans v 16 pt 1:19-33 '24; Same cond. Chem & Met Eng 31:107-10 Jl 21 '24
Inversion losses in cane sugar manufacture. C. F. Walton, jr., M. A. McCalip, and W. F. Hornberger. Ind & Eng Chem 17:51-6 Ja '25
Manufacture of refined cane sugar; a description of the plant, processes and technical achievements of the California & Hawaiian sugar refining corporation. A. W. Allen. flow sheets il Chem & Met Eng 32:350-60 Mr '25
Petree process for the clarification of cane juices. E. E. Hartmann. diags Ind & Eng Chem 16:1178-80 N '24
Physical examination of sugar juices. K. R. Lindfors. Ind & Eng Chem 17:1155-6 N '25
Purification of cane juice; the so-called superdefecation. W: D. Horne. Chem & Met Eng 31:264-5 Ag 18 '24
Quality production from the application of automatic handling equipment; labor-saving methods of the American sugar refining company. C. J. Alfred. il Management & Adm 7:563-6 My '24
Recommended specification for limestone, quicklime, lime powder, and hydrated lime for use in the manufacture of sugar. U S Bur Stand Circ 207:1-6 '25
Regulation in the evaporation of sugar. diags Soc Chem Ind J (Chem & Ind) 44:794-5 Ag 7 '25
Removal of gummy, oily, and waxy matters from raw cane sugar. C. W. Keyworth and R. B. Forster. Soc Chem Ind J 43:203-6 Jl 4 '24
Ruths steam accumulator; application to sugar refinery and steel works analyzed. A. J. T. Taylor and F. A. Wettstein. il diags Mech Eng 47:619-23 Ag '25
Some possible developments in the sugar industry. Soc Chem Ind J (Chem & Ind) 44:71-2 Ja 23 '25
Some salient points of the economics and manufacture of sugar. D: L. Davoll. Chem Age 32:11-13 Ja '24
Super-defecation of cane juice. W. D. Horne. Ind & Eng Chem 16:732-3 Jl '24
Surface tension of sugar factory products. K. R. Lindfors. Ind & Eng Chem 16:813-16 Ag '24
Temperature and analytical changes in sugar liquor during bone black filtration. H. I. Knowles. diag Ind & Eng Chem 17:1151-3 N '25
Ten years of sugar refining. L. A. Wills. Ind & Eng Chem 17:1028-9 O '25
See also Beets and beet sugar; Sugar factories; Sugar research; Thickeners

Prices
Outlook for sugar prices. Economist 99:688 N 1 '24
Possibilities of an advance in sugar prices. A. H. Temple. Comm & Fin 14:919-20 My 6 '25
Sugar back on a pre-war basis. M. Doran. Comm & Fin 14:911+ My 6 '25
Sugar refining industry. Nat City Bank p 63 Ap '25

SUGAR cane
See also Bagasse

Transportation
Light locomotives most suitable for plantation and industrial railways. E: N. Vose. il Dun's Int R 46:47-8 S '25

SUGAR factories
Manufacture of refined cane sugar; a description of the plant, processes and technical achievements of the California & Hawaiian sugar refining corporation. A. W. Allen. flow sheets il Chem & Met Eng 32:350-60 Mr '25
See also Sugar—Manufacture and refining

Accounting
Technical accounting in the sugar industry. H. E. Zitkowski. Am Inst Chem Eng Trans v 16 pt 1:55-67 '24; Same. Chem & Met Eng 31:103-6 Jl 21 '24

Electric equipment
Tendencies in the electrification of Cuban sugar mills. C. A. Kelsey. il Gen Elec R 27:384-9 Je '24

Employees
Successful experiment in industrial education Great Western sugar co. D. J. Roach. Chem & Met Eng 31:272-3 Ag 18 '24

Equipment
Conveying in a sugar refinery. C. J. Alfred. il Cassier's Ind Management 11:505-9 D '24
Filtration in the beet sugar industry. J. Maudru. il diags Am Inst Chem Eng Trans v 16 pt 1:1-15 '24; Same. Chem & Met Eng 31:111-15 Jl 21 '24; Discussion. Am Inst Chem Eng Trans v 16 pt 1:16-17 '24
Mechanical conveying in sugar refineries. Ind Management (Lond) 10:254-5 N 1 '23
See also Sugar machinery

Power
Control gear for beet sugar manufacture. J. O. Knowles. il Elec R (Lond) 97:566-7 O 9 '25
Gemischte kraft- und wärmeanlagen. F. Niethammer. diags Zeit Ver Deutsch Ing 69: 861-6 Je 27 '25
Greenock corporation waste heat installation; a sugar refinery steam plant. W: Hall. il Elec R (Lond) 95:282-4 Ag 22 '24
Wärmewirtschaft und kraftversorgung in der rübenzuckerindustrie. H. Kind. Zeit Ver Deutsch Ing 69:44-6 Ja 10 '25

Safety devices and measures
Physical and mental safeguards in a cane sugar refinery. W: B. Tyler. il Nat Safety N 10:19-20 D '24

SUGAR handling
Les appareils de manutention mécanique des nouveaux docks de Cambrai. il diags Génie Civil 84:513-16 My 31 '24
Conveying in a sugar refinery. C. J. Alfred. il Cassier's Ind Management 11:505-9 D '24
L'installation de déchargement de la Compagnie nouvelle de Sucreries réunies, à Ham (Somme). C: Dantin. il diags Génie Civil 85: 185-9 Ag 30 '24

SUGAR industry and trade
Cotton and sugar. T. H. Price. Comm & Fin 14:1975 O 7 '25
Long look at sugar. Comm & Fin 14:2053 O 21 '25
Messrs. Willett and Gray's forecast of world sugar production in 1924-1925. Econ W n s 28:662-3 N 8 '24
Position of sugar. Economist 99:1055-6; 100: 700-1 D 27 '24, Ap 11 '25
Price insurance for the sugar trade. G. P. Tameling. Comm & Fin 13:1185 Je 18 '24
Sugar, a basic industry. 31p W. A. Harriman & co., inc., New York '24
Sugar and common sense. T. H. Price. Comm & Fin 13:1135+; 14:1408 Je 11 '24, Jl 22 '25
Sugar, coffee and common sense. A. H. Temple. Comm & Fin 14:993 My 20 '25
Sugar companies. Moody's Inv Serv 17:314 S 24 '25
Sugar industry. E. W. Mayo. Comm & Fin Chr 121:520-1 Ag 1 '25
Sugar 1923-1924. F. C. Lowry. Comm & Fin 13:82-3 Ja 9 '24
Sugar refining companies. Moody's Inv Serv 17:53-4 F 13 '25
Sugar situation. Index p 12-13 Ja '25
Sugar trade. Moody's Inv Serv 17:17-18 Ja 8 '25
World sugar production still below normal consumption. A. B. Hodge. Comm & Fin 13: 2220-1 N 12 '24
World's sugar crop. Comm M 6:24 N '24
See also Central Aguirre sugar company; Fajardo sugar company of Porto Rico

SUGAR industry and trade—*Continued*

Advertising

Are you carrying coals to Newcastle? S. Freed. Ptr Ink 128:102+ S 25 '24
Even sugar has its cook book. Ptr Ink 132: 143-4 Ag 27 '25
Off-season campaign produces a hundred per-cent increase. Sales Management 9:282+ S 5 '25

Statistics

Colonial and foreign produce, 1924. Economist 100:sup33-4 F 14 '25
Department of agriculture's latest statistical summary of the world sugar situation. Econ W n s 29:590-1 Ap 25 '25
Sugar in 1923. Economist 98:239-40, 329-30 F 9-16 '24
Sugar situation. Nat City Bank p 63, p 92-3 Ap, Je '24
World's sugar production for the 1923-1924 crop year. Econ W n s 27:591 Ap 26 '24

Cuba

Cane sugar in Cuba. A. M. Young. flow sheet il Chem & Met Eng 30:857-61 Je 2 '24
Cheap sugar—what comes after? Comm & Fin 14:1621-2 Ag 26 '25
Cuban sugar bonds. Moody's Inv Serv 16: 88, 240 F 28, Je 12 '24
Final out-turn of the 1924-1925 sugar crop in Cuba. Econ W n s 30:520 O 10 '25
Improved sugar outlook. Moody's Inv Serv 17:210 Je 25 '25
Outlook for Cuba's next sugar crop. C. J. Welch. Comm & Fin 14:1916-17 S 30 '25
Sugar in 1924-1925. F. C. Lowry. Comm & Fin 14:84-6 Ja 14 '25
Sugar production in Cuba. Econ W n s 30:260-3 Ag 22 '25

Great Britain

Great Britain's sugar trade in 1923. Econ W n s 27:519 Ap 12 '24
Sugar after the budget. Economist 98:1101-2 My 31 '24

Italy

Tripartite collective agreement in the Italian sugar industry. Monthly Labor R 17:1128-30 N '23

Mexico

Bankers' acceptances in the Mexican sugar trade. F: Simpich. il Am Bankers Assn J 18:333-4+ N '25

Russia

Sugar production in soviet Russia. Econ W n s 29:808 Je 6 '25

United States

Cane sugar refining in the United States in 1923. Econ W n s 28:303-4 Ag 30 '24
Census of cane sugar industry for 1923. Manuf Rec 87:84 F 19 '25
Consumption of sugar in the United States in first half of 1924. Econ W n s 28:87-8 Jl 19 '24
Estimated consumption of sugar in the United States in 1923. Willet and Gray. Econ W n s 27:123 Ja 26 '24
Indicated increase of the sugar beet acreage in the United States. Econ W n s 27:915 Je 28 '24
New York coffee & sugar exchange in reply to government's conspiracy charges, etc. Comm & Fin Chr 117:2388-9 D 1 '23
Rebuilding the sugar industry of Louisiana. T: E. Dabney. Manuf Rec 87:83-4 Ap 23 '25
Sugar and securities. Moody's Inv Serv 16: 237-8 Je 12 '24
Sugar and what it means to Americans. R. Dykers. Manuf Rec 85:73-5 Ap 10 '24
Sugar companies in 1923. Nat City Bank p 35-6 Mr '24
Sugar in relation to the tariff. P. G. Wright. 312p McGraw-Hill '24
Sugar production retarded by endless tariff changes for a hundred years. R. Dykers. il Manuf Rec 86:218-23 pt 2 D 11 '24
Sugar under the flexible tariff. P. G. Wright. Am Bankers Assn J 16:488+ F '24
Supplying the sweet tooth of the nation. Chem & Met Eng 32:102-3 Ja 19 '25
Willett & Gray's estimate of sugar consumption in the United States first half of 1925. Comm & Fin Chr 121:265 Jl 18 '25

See also American sugar refining company; New York coffee and sugar exchange; Tariff—United States—Sugar

SUGAR machinery

Intermediate chute and maceration scraper for sugar mills. il diags Engineering 119:397 Mr 27 '25
Sugar machinery. A. J. Wallis-Taylor. 428p [bibliog. p. 398-400] W. Rider & son, ltd., London; Van Nostrand, N.Y. '24

Manufacture

Building sugar machinery in the Farrel foundry. il Am Mach 62:382-3 Mr 5 '25

SUGAR refining. See Sugar—Manufacture and refining

SUGAR refining company

Sugar refining company bonds. Moody's Inv Serv 16:383 O 16 '24

SUGAR research

Studying the problems of sugar factory operation. F. W. Reynolds. il diags Chem & Met Eng 30:585-7 Ap 14 '24

SUGARS

Aluminum amalgam as a reducing agent in the sugar series. D. R. Nanji and F: J. Paton. Chem Soc J 125:2474-6 D '24
Application of Weerman's reaction to a methylated sugar. J. C. Irvine and J: Pryde. Chem Soc J 125:1045-9 My '24
Colorimetric determination of carbohydrates in plants by the picric acid reduction method; the estimation of reducing sugars and sucrose. W. Thomas and R. A. Dutcher. Am Chem Soc J 46:1662-9 Jl '24
Configurational relationships of the sugars, hydroxy acids, amino acids and halogen acids. P. A. Levene. diags Chem R 2:179-216 [bibliog. p. 215-16] Jl '25
Constitutional studies in the monocarboxylic acids derived from sugars; the isomeric tetramethyl galactonolactones and trimethyl arabonolactones. J. Pryde, E. L. Hirst and R. W: Humphreys. Chem Soc J 127:348-57 F '25
Direct method for the estimation of glucose and other carbohydrates. E. Knecht and E. Hibbert. Chem Soc J 125:2009-12 O '24
Effect of presteaming on the hydrolysis of wood. E. C. Sherrard and J. O. Closs. il Ind & Eng Chem 17:847-9 Ag '25
Examination of photosynthetic sugars by the methylation method. J. C. Irvine and G. V. Francis. Ind & Eng Chem 16:1019-20 O '24
Fluoro-acetyl derivatives of sugars; optical rotation and atomic dimension. D. H. Brauns. Am Chem Soc J 46:1484-8 Je '24
Further evidence on the chemical theory of the protective action of sugars. D. L. Shrivastava and others. J Phys Chem 29:166-77 F '25
Mutarotation of the sugars. R. Gilmour. Chem Soc J 125:705-6 Mr '24
Occurrence of free pentoses in plants; the effect of extraction of the sugars with ammoniacal alcohol. D. T. Englis and C. Hale. Am Chem Soc J 47:446-9 F '25
Optical inactivity of the active sugars in the absorbed state:—a contribution to the chemical theory of adsorption. S. S. Bhatnagar and D. L. Shrivastava. J Phys Chem 28:730-43 Jl '24
Relations between rotatory power and structure in the sugar group; some terpene alcohol glycosides of glucose, glucuronic acid, maltose and lactose. C. S. Hudson. Am Chem Soc J 47:537-43 F '25
Relations between rotatory power and structure in the sugar group; the biose of amygdalin (gentiobiose) and its configuration. C. S. Hudson. Am Chem Soc J 46:483-9 F '24

SUGARS—*Continued*

Relations between rotatory power and structure in the sugar group; the chloro- and bromo-acetyl derivatives of arabinose. C. S. Hudson and F. P. Phelps. Am Chem Soc J 46:2591-2604 N '24

Relations between rotatory power and structure in the sugar group; the chloro-, bromo- and iodo-acetyl derivatives of lactose. C. S. Hudson and A. Kunz. Am Chem Soc J 47: 2052-5 Jl '25

Relations between rotatory power and structure in the sugar group; the halogenacetyl derivatives of a ketose sugar (*d*-fructose). C. S. Hudson. Am Chem Soc J 46:477-83 F '24

Relations between rotatory power and structure in the sugar group; the halogen-acyl and nitro-acyl derivatives of the aldose sugars. C. S. Hudson. Am Chem Soc J 46: 462-77 F '24

Relations between rotatory power and structure in the sugar group; the methyl glycosidic derivatives of the sugars. C. S. Hudson. Am Chem Soc J 47:268-80 Ja '25

Relations between rotatory power and structure in the sugar group; the rotation of the alpha form of methyl gentiobioside recently synthesized by Helferich and Becker. C. S. Hudson. Am Chem Soc J 47:872-3 Mr '25

Relations between rotatory power and structure in the sugar group: the rotatory powers of the alpha and beta forms of methyl *d*-xyloside and of methyl *l*-arabinoside. C. S. Hudson. Am Chem Soc J 47:265-8 Ja '25

Relations between rotatory power and structure in the sugar group; two isomeric crystalline hexa-acetates of dextro-alpha-mannoheptose. C. S. Hudson and K. P. Monroe. Am Chem Soc J 46:979-83 Ap '24

Relative reducing powers of some common sugars. A. W. Rowe and B. S. Wiener. Am Chem Soc J 47:1698-1701 Je '25

Ring-chain tautomerism; the mutarotation of the sugars. J: W: Baker, C. K. Ingold and J. F. Thorpe. Chem Soc J 125:268-91 Ja '24

Saturation relations in mixtures of sucrose, dextrose, and levulose. R: F. Jackson and C. G. Silsbee. U S Bur Stand Tech Pa 259:277-304 '24

Specific rotation of invert sugar and the Clerget divisor. F. W. Zerban. Am Chem Soc J 47:1104-11 Ap '25

Sugar carbonates and their derivatives. C: F: Allpress and W. N. Haworth. Chem Soc J 125:1223-33 Je '24

Sugars—what are they? Sci Am 131:118 Ag '24

See also Arabinose; Dextrose; Fructose; Galactose; Glucose; Hexosamines; Lactose; Levulose; Mannose; Mannosides; Polysaccharides; Raffinose; Sugar

SUGGESTION systems

Buried treasure within the organization. Ptr Ink 129:61-2+ N 6 '24

Can the suggestion box yield good results? Management & Adm 8:270 S '24

Efficiency awards for thinking employees. D. Burnett. Elec W 84:1369 D 27 '24

Employee suggestions aid safety work. Elec Ry J 65:725-6 My 9 '25

Employees' suggestion contest that helps iron out operation details. J. V. Long. Ptr Ink 125:73-4+ D 27 '23

Encouraging suggestions from your men. K. C. Monroe. Mach 30:937 Ag '24

How to get suggestions from employees. 30p Metropolitan life insurance co., 1 Madison av., New York '25

How to stimulate invention by employees. H. A. Toulmin, jr. Factory 32:490-2+ Ap '24

Just as a suggestion; the Equitable gas company and the Duquesne light company of Pittsburgh suggestion contest. Gas Age 52: 803-5 D 29 '23

Let your workmen think—it pays! W. E. Onion. il Management & Adm 9:259-60 Mr '25

Plan of giving substantial cash. System 47: 189-90+ F '25

Practical suggestion system. Cassier's Ind Management 11:213 Ap 17 '24

Prize contest encourages workers to aid in developing an industry. D. G. Miller. Ptr Ink M 8:43-4+ Mr '24

Suggestion campaign that really pays. H. M. Caroll. Factory 32:162-3 F '24

Suggestion system that works. K. H. Condit. Am Mach 60:923-5 Je 19 '24

Use of employees' suggestion plan and its relation to costs. Ind Management 68:217 O '24

Workable employee suggestion system. L. W. Tomlin. Iron Age 112:1315-16 N 15 '23

SUICIDE

Suicide in relation to sex and age. Econ W n s 30:171 Ag 1 '25

Suicide record of 1923. F: L. Hoffman. Spectator 113:3+ Jl 17 '24

Suicide record for 1924. F: L. Hoffman. Spectator 115:3-4+ Jl 30 '25; Abstract. Econ W n s 30:200 Ag 8 '25

SULFARSPHENAMINE, Analog of

N,N'-dimethylenesulfurous acid-3,3'-diamino-4,4'-dihydroxy-azobenzene: a nitrogen compound analogous to sulfarsphenamine. W. G. Christiansen. diag Am Chem Soc J 46: 497-503 F '24

SULFATES

Dissociation pressures of hydrated double sulphates; various double sulphates of the type $M''SO_4M'_2SO_4.6H_2O$. R. M. Caven and J: Ferguson. Chem Soc J 125:1307-12 Je '24

Sulphate deposits in lava tubes. R. H. Finch and O. H. Emerson. Am J Sci 5th ser 10: 39-40 Jl '25

Sulphur, sulphates, and sulphides as fertilizers. G: Schumacher. Eng & Min J 119:769-70 My 9 '25

See also Concrete, Effect of sulfates on; Copper sulfate; Gypsum; Methylethyl sulfate; Sodium sulfate

SULFIDES

Effect of sulfides in the alkaline hydrolysis of skin and hair. H: B. Merrill. Ind & Eng Chem 17:36-9 Ja '25

Studies in the organic polysulphides; the action of anhydrous potassium pentasulphide on allyl iodide and on some aromatic compounds. J: S. Thomas and R: W: Riding. Chem Soc J 125:2214-19 N '24

Studies in the organic polysulphides; the action of anhydrous potassium pentasulphide on some alkyl halides. R: W: Riding and J: S. Thomas. Chem Soc J 123:3271-8 D '23

Studies in the organic polysulphides; the action of the disulphides of the alkali metals and of sodium tetrasulphide on some organic halogen compounds. J: S. Thomas and R: W: Riding. Chem Soc J 125:2460-8 D '24

Sulphide diabase from Cook county, Minnesota. G. M. Schwartz. Econ Geol 20:261-5, pl 1 My '25

Synthesis of cyclic polysulphides; condensation of dithioethylene glycol with benzylidene chloride. P. C. Ray. Chem Soc J 125: 1141-4 My '24

Ultra-violet reflecting power of some metals and sulphides. W. W. Coblentz and C. W. Hughes. U S Bur Stand Sci Pa 493:577-85 '24

See also Ammonium sulfide; Barium sulfide; Hydrogen sulfide; Molybdenite; Pyrites

SULFILIMINES

Optically active sulphilimines. F: G: Mann and W: J. Pope. Chem Soc J 125:911-18 Ap '24

SULFINIC acids

Action of hydroxylamine upon sulfinic acids and their derivatives. H. F. Whalen and L. W. Jones. Am Chem Soc J 47:1353-7 My '25

SULFITE liquor

Alcohol from sulphite lyes. M. L. Griffin. Paper 33:8-10 D 20 '23

Charcoal as by-product of waste liquor. Paper 34:190-1 My 22 '24

SULFITE liquor—*Continued*
Designing an efficient evaporator. H. K. Moore. il chart diags Chem & Met Eng 30: 274-8 F 18 '24
Fermentation of sulphite waste liquors. E. Haegglund. Paper Tr J 80:43-5 Je 25 '25
Fundamental principles of multiple effect evaporative separation. H. K. Moore. il charts diags Am Inst Chem Eng Trans v 15 pt 2:233-301 '23; Excerpts. Chem & Met Eng 29:1102-5, 1144-7, 1190-2 D 17-31 '23; Same (pt. 1). Paper 33:6-9 Ja 3 '24; Discussion. Am Inst Chem Eng Trans v 15 pt 2:301-7 '23
New addition reagent for electrolytic refining; lignol, waste product of the paper industry. Eng & Min J 120:498 S 26 '25
Proper utilization of waste sulphite liquor. R. H. McKee. Chem Age 31:483-5 N '23
Sulphite cellulose waste liquor for mordanting. Textile World 68:501+ Jl 25 '25
Sulfite liquor as a protective colloid. E. C. Bingham, G. F. Rolland and G. E. Hilbert. Ind & Eng Chem 17:952-3 S '25
Sulphite liquor concentration. P. A. Paulson. diag Paper 34:469-70 Jl 3 '24; Same. Paper Tr J 78:43-5 Je 12 '24
Sulfite waste for road surfacing and other purposes. Chemicals 24:8 N 9 '25
Tanning extract from sulphite lye. Paper 34: 476 Jl 3 '24
Utilization of wood waste and sulphite waste liquors in pulp mills. C. G. Schwalbe. il Paper Tr J 78:47-8 Je 26 '24
Waste liquors and gases of the paper industry. A. Schrohe. Paper Tr J 81:54-6 O 8; 56-8 O 22; 106-8 O 29; 57-9 N 5; 54-6 N 12; 57-8 N 19; 55-6 N 26; 61-3 D 3; 50-2 D 10; 47-50 D 17; 50-2 D 24 '25
Waste sulphite liquor for deodorizing and preserving ammoniates. Chem Age 32:203 Ap '24

SULFITES
Action of some oxidizing agents on sulfite and its determination with iodate. W. S. Hendrixson. Am Chem Soc J 47:1319-25, 2156-9 My, Ag '25
Soluble sulphites and their bisulphites in the pulping of wood. J: D. Rue. Paper Tr J 81: 54-6 O 15 '25

SULFOCELLULOSE. See Cellulose ethers

SULFONAMIDES
Aryl and alkyl sulphonamides. P. W. Clutterbuck and J. B. Cohen. Chem Soc J 123: 2507-15 O '23

SULFONATED castor oil. See Castor oil, Sulfonated

SULFONATED oils
Sulphonated oil industry. Soc Dyers & Col J 41:181-2 My '25
Sulphonated oils. S. N. Brown. Am Dyestuff Rep 13:357-8 Je 2 '24

SULFONATES
Rotatory dispersive power of organic compounds; β- and π-sulphonic derivatives of camphor. E. M: Richards and T: M. Lowry. Chem Soc J 127:1503-14 Jl '25

SULFONATION
Elimination of soluble tar from sulfonation masses. J. A. Ambler and D. F. J. Lynch. Ind & Eng Chem 17:61-2 Ja '25
Naphthalenesulfonic acids. J. A. Ambler, D. F. J. Lynch and H. L. Haller. diag Ind & Eng Chem 16:1264-6 D '24
Sulfonation of benzene. A. W. Harvey and G. Stegeman. diags Ind. & Eng Chem 16: 842-5 Ag '24
Sulphonation of glyoxalines. R. Forsyth, J. A. Moore and F. L. Pyman. Chem Soc J 125:919-23 Ap '24
Sulphonation of *m*-cresol and its methyl ether. R. D. Haworth and A. Lapworth. Chem Soc J 125:1299-1307 Je '24
Sulfonation of para-cymene. M. Phillips. Am Chem Soc J 46:686-94 Mr '24
Sulphonation of *para*-substituted phenylcarbamides. J: R: Scott. Chem Soc J 123:3191-3202 D '23
Synthesis of phenol; sulfonation in vapor phase. D. H. Killeffer. flow sheet il Ind & Eng Chem 16:1066-70 O '24
See also Sulfonic acids

SULFONEFLUORESCEIN
Sulfonefluorescein and dihydroxybenzoyl-benzene-ortho-sulfonic acid, and some of their derivatives. W. R. Orndorff and R. S. Vose. Am Chem Soc J 46:1896-1912 Ag '24

SULFONIC acids
Aromatic sulphonic acids; patent. Chem & Met Eng 31:354 S 1 '24
Arylamine salts of some sulphonic acids of the benzene series. C. M. Keyworth. Soc Chem Ind J 43:341-2 N 28 '24
Formation of azoaniline-sulphonic acids. W. Lewcock. Soc Chem Ind J 44:152-5 Ap 3 '25
Lævo-camphor-10-sulphonic acid from synthetic camphor. H: Burgess and C: S. Gibson. Soc Chem Ind J 44:496-8 O 23 '25
New halogen derivatives of camphor; the constitution of the Reychler series of camphor sulphonic acids—experiments on chlorosulphoxides. H: Burgess and T: M. Lowry. Chem Soc J 127:279-83 Ja '25
New sulphonic acid from petroleum. diags Chem & Met Eng 29:1108-9 D 17 '23
See also Anilinesulfonic acids; Naphthalenesulfonic acids; Sulfonation; Toluenesulfonic acids

SULFONIC esters
Alkylation of mercaptans by means of sulfonic esters. H: Gilman and N. J. Beaber. Am Chem Soc J 47:1449-51 My '25

SULFONIUM compounds
Basis for the physiological activity of certain -onium compounds; the mobilities of the -onium ions; sulfonium ions. I: Bencowitz and R. R. Renshaw. diag Am Chem Soc J 47:1904-16 Jl '25

SULFOXIDES
See Disulfoxides

SULFOXYLATES
Factors which affect the stability of hydrosulphite discharge pastes, with suggestions for improvement. C: S. Hollander. Am Dyestuff Rep 13:62-3; Discussion. 63-4 Ja 28 '24

SULFUR
Action of sulphur on organic compounds. L. Szperl. Chem Soc J 124 pt 1:1191-2 D '23
Action of sulfur upon para-toluidine in the presence of litharge; thio-para-toluidine, its constitution and some new derivatives. M. T. Bogert and M. R. Mandelbaum. Am Chem Soc J 45:3045-55 D '23
Behavior of sulphur and amorphous carbon at high temperatures. J. P. Wibaut and G. La Bastide. Am Cer Soc J 8 (Cer A 4): 116-17 Ap '25
Combustion of sulphur-containing materials in hand and mechanical burners. P. Parrish. il diags Soc Chem Ind J 44:307-17, 321-5 Jl 3-10 '25
Conditions of reaction of hydrogen with sulphur; photochemical union. R. G: W. Norrish and E. K. Rideal. diags Chem Soc J 125:2070-81 O '24
Conditions of reaction of hydrogen with sulphur; the direct union of oxygen and sulphur. R. G: W. Norrish and E. K. Rideal. Chem Soc J 123:3202-18 D '23
Corrosion effect of naphtha solutions of sulfur and sulfur compounds. A. E. Wood, C. Sheely and A. W. Trusty. Ind & Eng Chem 17:798-802 Ag '25
Direct sulphuration of aniline. H. H: Hodgson. Chem Soc J 125:1855-8 S '24
Distribution of sulfur in the fractions derived from crude petroleum. A. P. Bjerregaard. Ind & Eng Chem 17:142-4 F '25
Effect of chemical constitution on the X-ray spectrum of sulphur. B. Ray. Philos Mag 6th ser 50:505-11, pl 17 S '25
Effect of sulfur on the color of certain phthaleins. H. S. Holt and E. E. Reid. Am Chem Soc J 46:2333-7 O '24
Effect of sulfur on the color of triphenylmethane dyes. H. S. Holt and E. E. Reid. Am Chem Soc J 46:2329-33 O '24

SULFUR—*Continued*

Influence of sulfur on the color of azo dyes; further investigations. D. G. Foster and E. E. Reid. Am Chem Soc J 46:1936-48 Ag '24

New uses for sulfur in industry. W. H. Kobbé. Ind & Eng Chem 16:1026-8 O '24

Novel sulphur enterprise in Nevada. A. J. Crowley. il Eng & Min J 118:774-6 N 15 '24

Oxidation of ceramic wares during firing; a quantitative study of the nature of sulphur evolution in kiln-firing. F: G. Jackson. Am Cer Soc J 7:634-42, 656-62 Ag-S '24

Oxidation of ceramic wares during firing; the absorption of sulphur gases by ferric oxide in clay. F: G. Jackson. il Am Cer Soc J 7:532-8 Jl '24

Oxidation of ceramic wares during firing; the decomposition of various compounds of iron with sulphur under simulated kiln conditions. F: G. Jackson. il Am Cer Soc J 7: 223-37 Ap '24

Reaction of sulfur with alkali and alkaline earth hydroxides in aqueous solutions. H. V. Tartar and C. Z. Draves. Am Chem Soc J 46:574-80 Mr '24

Safety in grinding sulphur and hard rubber. H. W. Frevert. diag Chem & Met Eng 31: 894-6 D 8 '24

Schwefel- und stickstoffstudien. F. Raschig. 310p Verlag Chemie, Leipzig and Berlin '24

Series spectra of the stripped atoms of phosphorus (Pv), sulphur (Svi), and chlorine (Clvii). I. S. Bowen and R. A. Millikan. il Phys R 25:295-305 Mr '25

Series spectra of three-valence-electron atoms of phosphorus (Piii), sulphur (Siv), and chlorine (Clv). R. A. Millikan and I. S. Bowen. Phys R 25:600-5 My '25

Series spectra of two-valence-electron atoms of phosphorus (Piv), sulphur (Sv), and chlorine (Clvi). I. S. Bowen and R. A. Millikan. Phys R 25:591-9 My '25

Solubility of sulfur in rubber. W. J. Kelly and K. B. Ayers. Ind & Eng Chem 16:148-50 F '24

Some physical properties of nacreous sulphur. H. Whitaker. il J Phys Chem 29:399-405 Ap '25

Sulphur; a colour producing element. G. T. Morgan. Chem Age (Lond) 12:81 Ja 24 '25; Same. Soc Chem Ind J (Chem & Ind) 44: 82 Ja 23 '25

Sulphur, an industrial necessity. H: C. Lint. il Chem & Met Eng 32:364-9 Mr '25

Sulfur and its many uses. Sci Am 130:259 Ap '24

Sulphur and pyrites. R. F. Bacon. Eng & Min J 119:100-1 Ja 17 '25

Sulphur and pyrites in 1924. H. M. Meyer. U S Geol S Min Res of U S 1924, pt 2:1-5 '25

Sulfur as a hardening agent. R. H. Palmer. il Foundry 52:894-6 N 15 '24

Sulfur as a soil amendment. C. C. Fletcher. Chem & Met Eng 29:1012 D 3 '23; Same. Eng & Min J 119:535 Mr 28 '25

Sulfur content of arsphenamine and its relation to the mode of synthesis and the toxicity. W. G. Christiansen, A. J. Norton and J. B. Shohan. Am Chem Soc J 47:2712-24 N '25

Sulphur from shale oil. Chem Age (Lond) 13: 420-1 O 24 '25

Sulphur, sulphates, and sulphides as fertilizers. G: Schumacher. Eng & Min J 119:769-70 My 9 '25

Sulphurized pulp and paper products. W: H. Kobbé. Paper Tr J 79:32+ N 13 '24

Sulphurising and desulphurising of metals. B. Bogitch. Chem Age (Lond) 10:[Met sec] 34-5 My 3 '24

Surface concentration of sodium oleate and of colloidal sulphur. J. M. Johlin. J Phys Chem 29:1129-39 S '25

Technology and commercial applications of sulphur. H: H. Wilkinson. bibliog Chem Age 32:22-4, 60-2, 140-5 Ja-Mr '24

University of Birmingham chemical society; presidential address. G. T. Morgan. Soc Chem Ind J (Chem & Ind) 44:82 Ja 23 '25

Value of sulfur in soil improvement and crop production. J. G. Lipman. Ind & Eng Chem 16:250-2 Mr '24

See also Coal—Sulfur content; Coke—Sulfur content; Petroleum—Sulfur content; Rubber—Sulfur content; Steel—Sulfur and phosphorus content; Vulcanization

Analysis

Determination of sulfur by means of a thermometric titration. P. M. Dean and O: O. Watts. Am Chem Soc J 46:855-8 Ap '24

Determination of sulphur in mixtures of crude or of vulcanized rubber. V. C. Butroni. Rubber Age 16:404 Mr 25 '25

Estimation of sulphur in volatile hydrocarbons, with particular reference to benzol, by an improved lamp method. E. L. Lomax and A. M. E. Bevan. diag Inst Pet Tech J 10:914-17 D '24

Die gleichzeitige bestimmung des schwefels und kohlenstoffs in stahl, roheisen und ferrolegierungen durch verbrennung im sauerstoffstrom. C. Holthaus. diags Stahl & Eisen 44:1514-19 N 27 '24

Use of amalgamated zinc in the evolution method for the estimation of sulphur in iron and steel. T. Ashida. diag Chem Soc J 125:665-8 Mr '24

Manufacture

Centrifugal device for preparing finely divided sulphur. diag Chem & Met Eng 31: 198 Ag 4 '24

Finely divided sulphur. Chem Age 32:320 Jl '24

Refined sulphurs: their manufacture and uses. C: A. Newhall. il diags Am Inst Chem Eng Trans v 16 pt 1:163-83 '24; Same cond. Chem & Met Eng 31:144-9 Jl 28 '24; Discussion. 31:472-3 S 22 '24

SULFUR black

Aftertreatments for sulphide colors. J. R. Wilson. Textile Col 46:777-8 D '24

Dye application in China. Woo Dong Chi. Am Dyestuff Rep 13:815-16+ D 15 '24

Dyeing of hosiery. M. N. Conklin. Color Tr J 15:17-19 Jl '24

Sulphur black and scrooping and cross-dyeing. C. F. Green. Textile Col 47:508-9 Ag '25

Sulfur black versus carbon black. L. Mann. Paper 33:10 Mr 20 '24

SULFUR burners

Combustion of sulphur-containing materials in hand and mechanical burners. P. Parrish. il diags Soc Chem Ind J 44:307-17, 321-5, 366-70 Jl 3-17 '25; Abstract. Chem Age (Lond) 12:350-2 Ap 11 '25

Hand and mechanical burners for the combustion of sulphur-containing materials. Chem Age (Lond) 12:374 Ap 18 '25

SULFUR chloride

Removal of sulphur chloride and similar liquids from carboys. R. Defries. il Soc Chem Ind J (Chem & Ind) 44:675-6 Jl 3 '25

Sulfurized chemical product. W. O. Snelling. Chemicals (Dyestuffs sec) 16:187-9 Je 22 '25

SULFUR compounds

Action of petroleum-refining agents on pure organic sulfur compounds dissolved in naphtha. A. E. Wood, A. Lowy and W. F. Faragher. Ind & Eng Chem 16:1116-20 N '24

Chemistry of petroleum; the occurrence of compounds of sulphur in the light distillate from the crude oil of Maidan-i-Naftun. S. F. Birch and W. S. G. P. Norris. Chem Soc J 127:898-907 Ap '25

Corrosion effect of naphtha solutions of sulfur and sulfur compounds. A. E. Wood, C. Sheely, and A. W. Trusty. Ind & Eng Chem 17:798-802 Ag '25

Malodorous substances in sulphate. P: Klason. Tech Assn Pa ser 7:133-6 Je '24; Same. Paper Tr J 79:30+ Jl 10 '24

Stereoisomerism of quadrivalent sulphur, selenium and tellurium. R. F. Goldstein. Soc Chem Ind J (Chem & Ind) 44:1011-12 O 16 '25

SULFUR compounds—*Continued*
Sulfur-terpene substitution compounds. W: B. Pratt. Am Inst Chem Eng Trans v 15 pt 1:367-78 '23; Same. Ind & Eng Chem 15:178-80 F '23; Discussion. Am Inst Chem Eng Trans v 15 pt 1:378-80 '23

See also Dithioaniline; Mercaptans; Sulfates; Sulfides; *also* names of compounds beginning Sulfur and Thio

SULFUR dioxide
Conditions of reaction of hydrogen with sulphur; the direct union of oxygen and sulphur. R. G: W. Norrish and E. K. Rideal. Chem Soc J 123:3202-18 D '23
Electrolysis in liquid sulfur dioxide. H. P. Cady and R. Taft. diags J Phys Chem 29:1075-84 S '25
Graphical control; method for determining relation beween gases formed in sulphur burning. R. Sieber. Paper 33:3-4+ N 22 '23
Heats of adsorption of sulfur dioxide and of water vapor by silica gel at o°C. W. A. Patrick and C. E. Greider. diags J Phys Chem 29:1031-9 Ag '25
Liquid sulphur dioxide process for sulphite pulp. R. H. McKee and D. E. Cable. diag Paper Tr J 77:101-4 O 18 '23; 53-6 Mr 6; 47-50 Mr 13 '24; 80:41-6 Ap 23 '25
Raw materials for the manufacture of sulphuric acid and the manufacture of sulphur dioxide. W. Wyld. 571p Van Nostrand '23
Relation between tarnishing and corrosion. U. R. Evans. il Am Electrochem Soc Trans v 46 (preprint 6):75-100 O '24
Separation of selenium and tellurium by sulfur dioxide in hydrochloric acid solution. V: Lenher and C. H. Kao. Am Chem Soc J 47:769-72 Mr '25
Solubilities of sulfur dioxide and ammonia in water. T. K. Sherwood. bibliog Ind & Eng Chem 17:745-7 Jl '25
Solubility of sulphur dioxide in water and in aqueous solutions of potassium chloride and sodium sulphate. J: C. Hudson. diags Chem Soc J 127:1332-47 Je '25
Some electrochemical aspects of the oxidising properties of sulphur dioxide. S. R. Carter and F. James. Chem Soc J 125:2231-40 N '24
Sorption of nitrous oxide and sulphur dioxide by glass. D. H. Bangham and F. P. Burt. J Phys Chem 29:540-50 My '25
Sulphur dioxide as an oxidising agent. W: Wardlaw and N. D. Sylvester. Chem Soc J 123:3417-18 D '23
Sulfuryl chloride. R. H. McKee and C. M. Salls. Ind & Eng Chem 16:279-82, 351-3 Mr-Ap '24
Thermal properties of sulphur dioxide. D: L. Fiske. Refrig Eng 10:197-200; 11:235-8 D '23, D '24

SULFUR dyes
Sulphur colors. W: B. Nanson. Textile Col 47:627-9, 710-12, 779-81 O-D '25 (to be cont)
Use of protective agents in cross dyeing of union goods with sulphur dyes. W: J. Sayers. Textile Col 47:491-3 Ag '25

See also Dyes and dyeing—Cotton; Sulfur black

SULFUR industry and trade
Bright future for sulphur industry. R. F. Bacon. Chem & Met Eng 32:82 Ja 19 '25
Chemical and material markets in 1923. Chem & Met Eng 30:116 Ja 21 '24
Decrease in production of sulphur in 1924. Eng & Min J 119:608 Ap 11 '25; Same. Econ W n s 29:340 Mr 7 '25
Fate of sulphur combines. C. L. Breger. Eng & Min J 117:844 My 24 '24
New record production and shipments of sulphur in 1923. Eng & Min J 117:569 Ap 5 '24
Sicilian sulphur in 1924. Oil Paint & Drug Rep 107:67 My 25 '25
South controls the world's sulphur production. Manuf Rec 86:200 pt 2 D 11 '24
Sulphur industry of the United States. R: W. Edmonds. Manuf Rec 86:69-71 Jl 10 '24

SULFUR sesquioxide
Sulphur sesquioxide. I. Vogel and J. R. Partington. diag Chem Soc J 127:1514-24 Jl '25

SULFUR trioxide
Catalytic preparation of sulphur trioxide. Chem Age (Lond) 13:320-1 S 26 '25
Complexity of the solid state; the behaviour of pure sulphur trioxide. A. Smits and P Schoenmaker. diags Chem Soc J 125:2554-73 D '24
Recovering sulphur trioxide; patent. diag Chem & Met Eng 31:158 Jl 28 '24
Vapour pressures of fuming sulphuric acid, and their application to the problem of the absorption of sulphur trioxide. J. W. McDavid. Soc Chem Ind J 43:57-61 Mr 21 '24

SULFURIC acid
Acid production in the fertilizer industry in last half of 1924. Oil Paint & Drug Rep 107:68 Je 1 '25
Acid production in the fertilizer industry showed a loss in the first half of 1924. Oil Paint & Drug Rep 106:20 N 10 '24
Acids production in the fertilizer industry in first half of 1925. Oil Paint & Drug Rep 108:67 N 2 '25
Anomaly in the standardisation of sulphuric acid. W. H. Patterson and L. T. Duckworth. Soc Chem Ind J 42:471 D 7 '23
Colours produced by the action of sulphuric acid upon some hydrazones. F: D. Chattaway, S. J: Ireland and A. J: Walker. Chem Soc J 127:1851-5 Ag '25
Decomposition of malic acid by sulfuric acid. E. L. Whitford. Am Chem Soc J 47:953-68 Ap '25
Diagram of sulphuric acid uses. Chem Age (Lond) 10:162-3 F 16 '24
Effect of treatment with sulphuric acid on the breaking load of cotton. P. D. Vincent. diags Textile Inst J 15:T281-90 My '24; Same. Color Tr J 15:27-30 Jl '24
Free energy of aqueous sulfuric acid. D: F. Smith and J. E. Mayer. Am Chem Soc J 46:75-83 Ja '24
Free energy of sulfuric acid in aqueous sulfate solutions. H. S. Harned and R. D. Sturgis. Am Chem Soc J 47:945-53 Ap '25
German alkali and sulphuric acid industries. W: T. Daugherty. U S Bur For & Dom Com Trade Information Bul 203:1-7 '24
Jellying of asphalt paints. H. C. Fisher. Ind & Eng Chem 16:509-12 My '24
Nitrogen oxides in sulfuric acid. E. M. Jones. Ind & Eng Chem 17:144 F '25
Partial pressure of water out of aqueous solutions of sulfuric acid. C. H. Greenewalt. bibliog Ind & Eng Chem 17:522-3 My '25
Partial pressures of sulphuric acid over concentrated aqueous solutions of the acid at high temperatures. J: S. Thomas and A. G: Ramsay. diag Chem Soc J 123:3256-70 D '23
Passage of an alternating current through sulphuric acid. R. T. Lattey. bibliog Philos Mag 6th ser 50:444-53 Ag '25
Recovering the sludge acid in benzol refining. H. Schlamp. Chem & Met Eng 30:188 F 4 '24
Solutions of salts in 100% sulfuric acid; solvolysis and double decomposition reactions. A. W. Davidson. Am Chem Soc J 47:968-81 Ap '25
Vapor-pressure lowering of aqueous sulfuric acid solutions at 25°. A. Grollman and J. C. W. Frazer. Am Chem Soc J 47:712-17 Mr '25
Vapour pressures of fuming sulphuric acid, and their application to the problem of the absorption of sulphur trioxide. J. W. McDavid. Soc Chem Ind J 43:57-61 Mr 21 '24
What becomes of sulphuric acid? Chem & Met Eng 32:124 Ja 19 '25
Where did the sulphuric acid and caustic soda go in 1923? Chem & Met Eng 30:105 Ja 21 '24
Will sulphuric acid hurt an oil engine? A. B. Newell. Power 61:454-5 Mr 24 '25

Analysis
Detection of nitric acid and nitrates in concentrated sulphuric acid. J. Wilson. Soc Chem Ind J 44:438 Ag 21 '25

SULFURIC acid—*Continued*

Manufacture

Absorption of nitrogen oxides in the chamber acid process. G: E. Beavers. il Chem & Met Eng 32:280-2 F 16 '25

Are lead chamber processes reversible? A. Graire. Chem & Met Eng 31:892-3 D 8 '24

Concentration of sulphuric acid. J: W. Parkes. Rev. ed. 406p Van Nostrand '24

Distributor for acid to hot and cold towers. J. R. McCready. diags Chem & Met Eng 32:582-3 Je '25

Equipment developments in the contact sulphuric acid process. F. C. Zeisberg. diags Chem & Met Eng 30:829-31 My 26 '24

La fabrication de l'acide sulfurique par le procédé E. A. Gaillard. P. Le Breton. il Chimie & Ind 11:662-4 Ap '24

Facts about sulphuric acid production. Chem Age (Lond) 11:339-40 O 4 '24

France can produce two million tons of sulphuric acid yearly. Chem & Met Eng 31:929 D 15 '24

Increased capacity of cascade systems. L. A. Thiele. il diags plans Am Inst Chem Eng Trans v 14:27-31 '21-'22

Influence of reaction rate on operating conditions in contact sulfuric acid manufacture. W. K. Lewis and E. D. Ries. diags Ind & Eng Chem 17:593-8 Je '25

Intensive production of sulphuric acid; patented process of E. A. Gaillard. P. Parrish. il Chem Age (Lond) 12:128-9 F 7 '25

Manufacture and concentration of sulphuric acid. P. Parrish. Chem Age (Lond) 10:640-1 Je 21 '24

Manufacture of sulphuric acid. W. Wyld. 424p Van Nostrand '24

Manufacture of sulphuric acid (contact process). F. D. Miles. new ed. (Manufacture of acids and alkalis v 4) 442p Van Nostrand '25

Manufacture of sulphuric acid (contact process). P. Parrish. Chem Age (Lond) 13: 168-70 Ag 15 '25

Mills-Packard sulphuric acid chambers. il Chem Age (Lond) 11:213 Ag 30 '24

Modern methods of concentrating sulphuric acid. P: S. Gilchrist. il diags Am Inst Chem Eng Trans v 14:13-23; Discussion. 23-5 '21-'22

New method of concentration cuts cost of making sulphuric acid. C. Tyler. il diag Chem & Met Eng 32:487-90 My '25

New plant for making acid from zinc concentrates at Broken Hill. Eng & Min J 120: 218 Ag 8 '25

Present status of the contact sulphuric acid industry in Russia. J. R. Minevitch and W. M. Malisoff. flow sheet map Chem & Met Eng 30:384-8 Mr 10 '24

Raw materials for the manufacture of sulphuric acid and the manufacture of sulphur dioxide. W. Wyld. 571p Van Nostrand '23

Researches on the formation of sulphuric acid by the chamber process. E. Briner and M. Rossignol. diag Chem & Met Eng 29: 885-7 N 12 '23

Shrinkage of quartz packing in the Glover tower. L. J. Michael and J. R. Withrow. Am Inst Chem Eng Trans v 14:33-9; Discussion. 39-43 '21-'22

Sick sulphuric acid plants. A. M. Fairlie. il diag Chem & Met Eng 32:379-81 Mr '25

Sulphuric acid. Chem & Met Eng 31:61-4 Jl 14 '24

Sulphuric acid concentration. P. Parrish and F. C. Snelling. 288p Van Nostrand '25

Sulphuric acid plants—old and new. P. Parrish. il diags Chem Age (Lond) 10:316-18 Mr 29 '24

Sulfuryl chloride; hydrolysis to sulfuric and hydrochloric acids. R. H. McKee and C. M. Salls. diag Ind & Eng Chem 16:833-6 Ag '24

Thermal considerations in sulphuric acid concentration. F. C. Zeisberg. Am Inst Chem Eng Trans v 14:1-11 '21-'22

SULFUROPHOSPHATE

Sulfurophosphate—a new phosphatic fertiliser. Chem Age (Lond) 10:86 Ja 26 '24

SULFUROUS acid

Action of aqueous sulphurous acid on lignocellulose. C. F. Cross and A. Engelstad. Soc Chem Ind J 43:253-7; 44:267-70 Ag 1 '24, Je 5 '25; Same (pt 1). Paper Tr J 81: 45-8 Ag 20 '25; Abstract (pt 2). Paper 35: 803 Ag 21 '24

Lignosulphonic acid obtained by the action of sulphurous acid on spruce wood. C: Dorée and L. Hall. Soc Chem Ind J 43:257-63 Ag 1 '24

Lignosulphonic acid obtained from spruce wood by the action of sulphurous acid in the presence of ammonia. C: Dorée and L. Hall. Soc Chem Ind J 44:270-4 Je 5 '25

Reddening of sulphite pulp. E. Oeman. Am Dyestuff Rep 14:306-9, 319-20 My 4, 18 '25

Removal of sulfurous acid from grape sirup. W. V. Cruess and E. W. Berg. Ind & Eng Chem 17:849-50 Ag '25

SULFURYL chloride

Rate of thermal decomposition of sulfuryl chloride; a first-order homogeneous gas reaction. D: F. Smith. diag Am Chem Soc J 47:1862-75 Jl '25

Researches on sulphuryl chloride; the influence of catalysts on the chlorination of toluene. O. Silberrad, C: A. Silberrad and B. Parker. Chem Soc J 127:1724-31 Jl '25

Sulfuryl chloride. R. H. McKee and C. M. Salls. Ind & Eng Chem 16:279-82, 351-3, 833-6 Mr-Ap, Ag '24; Excerpt. Chem Age (Lond) 10:623 Je 14 '24; Discussion. Ind & Eng Chem 16:533-4 My '24

Two heterogeneous gas reactions. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 123:2725-9 N '23

SULLIVAN, Louis Henry, 1856-1924

Appreciation. W: L. Steele. Am Inst Arch J 12:275-6 Je '24

Five architects and one truth. Am Inst Arch J 12:401-5 S '24

Louis H. Sullivan—his work. F. L. Wright. Arch Rec 56:28-32 Jl '24

Louis Sullivan—an old master. F. Kimball. il Arch Rec 57:289-304 Ap '25

Sketch. por Am Arch 125:426 My 7 '24

Sketch. C. Bragdon. Am Inst Arch J 12:241 My '24

Sketch. A. N. Rebori. por Arch Rec 55:586-7 Je '24

SULZER engine

Diesel machinery for 20,000-ton passenger liner. il diag Marine Eng 29:291-2 My '24

SUMATRA

Operations of an American rubber company in Sumatra and the Malay peninsula. H. S. Hotchkiss. Ann Am Acad 112:154-62 Mr '24

SUMMER business

Easy payments as summer slump antidote. J: S. King. Ptr Ink 128:138+ Jl 10 '24

Find the master selling appeal and then stick to it; Robert A. Johnston company. H. Chandler. Ptr Ink M 11:39-40+ Jl '25

Getting the bulge on summer sales. System 47:618-20+ My '25

Goblins won't get you if you venture to sell in summer. M. Hastings, jr. Ptr Ink 131:41-2+ Je 25 '25

How much does business fall off in the summer? Sales Management 6:1154 Je '24

How your sales managers can fill in the valleys of July and August. R. Giles. Ptr Ink 127:3-4+ My 15 '24

Now we have no summer slump. il System 45:619-22+ My '24

Our sales volume went up—right along with the mercury; Tao tea company. J. W. O'Mahoney. il System 46:40-1+ Jl '24

Steady advertising and selling breaks summer slump for Whitman. R. W. Johnson. Sales Management 7:1583-4 O '24

Summer orders. C. McPherson. Sales Management 7:1207-8+ Jl '24

Summer resorts as a remedy for drooping sales curves. il map Sales Management 8: 767-9 My 16 '25

Three ways to beat the summer slump. il System 45:772-5+ Je '24

SUMMER business—*Continued*
Three ways to double summer sales. il System 48:48-51 Jl '25
Winter vacations for August sales. C: C. Ferris. System 46:149-50+ Ag '24
See also Business depression

SUMMER resorts
Sanitation and the untamed summer resort cottager. J: M. Hepler. Munic & Co Eng 67: 260-1 N '24
Summer resorts as a remedy for drooping sales curves. il map Sales Management 8: 767-9 My 16 '25
See also Valeria home, Westchester county, New York

SUN
Sun's place in the universe. I. M. Lewis. Sci Am 132:140+ F '25
See also Eclipses, Solar; Solar radiation

SUN baths
Sun baths in a health camp. H. E. Kleinschmidt. il diag Nation's Health 6:690-1 O '24

SUN dials
New kind of sun-dial invented by W. E. Cooke. F. Hope-Jones. il Engineering 120: 84-5 Jl 17 '25
Sun dial at Hampton Lucy, England. R. M. Blackall. il diag Am Arch 126:23-4 Jl 2 '24

SUN porch. See Sun rooms

SUN rooms
Sun porch; its decorations and furnishings. il Am Arch 126:57-62 Jl 16 '24

SUN spots
Heavy static predicted this year; astronomer believes static is caused by sun spot eruptions. D: Todd. il Wireless Age 11:21-3+ Ap '24; Discussion. 11:38 My '24
Sun spots and the frequency of tropical cyclones. S. S. Visher. Am J Sci 5th ser 8: 312-16 O '24
Sun-spots as magnets and the periodic reversal of their polarity; abstract. G: E. Hale. J Fr Inst 198:137-9 Jl '24

SUNBEAM chemical company
How Sunbeam chemical company staged a comeback. E. Whitmore. Sales Management 8:943-4 Je 27 '25

SUNDAY labor. See Rest days

SUNDAY school rooms and buildings
Revolution in ecclesiastical architecture. T: E. Tallmadge. il plans Arch Rec 55:416-36 My '24
Some remarks on planning non-ritualistic church buildings. F. G. Dillard. il plans Am Arch 127:105-12 F 11 '25
Sunday school requirements. H: E: Tralle. il diags Arch Forum 40:153-6 Ap '24

SUNLIGHT
Study in problems of urban growth. T: Adams and H. L. Seymour. diags Can Eng 47: 543-9 N 25 '24; Excerpt (Nomogram). Eng N 94:162 Ja 22 '25
See also Daylight

SUPERCHARGERS. See Airplane engines—Superchargers; Automobile engines—Superchargers

SUPERHEATED steam
Analysis of steam station design; an interview with C. F. Hirshfeld. Elec W 86:612-13 S 26 '25
Desuperheater and attemporator; a special feature of the remodeled Batavia electric railroad plant. H. W. Brooks. diags Power 58:992-3 D 18 '23
Direct measurement of the heat content of superheated steam. N. S. Osborne. Mech Eng 46:808-9 pt 2 N '24
Harvard throttling experiments extend data on superheated steam. P. W. Swain. il diag Power 60:329-32 Ag 26 '24
High steam temperatures. A. G. Christie. Power 61:583-4 Ap 14 '25
Higher steam pressures and temperatures; report of prime movers committee of the N.E.L.A. Power 62:662-3 O 27 '25
Increase in thermal efficiency due to resuperheating in steam turbines. W. E. Blowney and G. B. Warren. Gen Elec R 28:662-70 S '25; Same cond. Mech Eng 47:455-60 Je '25; Same cond. Power Pl Eng 29:704-6 Jl 1 '25; Discussion. Mech Eng 47:460-1 Je '25
Limiting possibilities in steam plants. A. L. Mellanby and W: Kerr. Engineering 119: 301-3 Mr 6 '25
M.I.T. investigates pressure-volume-temperature relation of steam. P. W. Swain. il diag Power 60:284-6 Ag 19 '24
Modern tendencies in steam-turbine power plants. E. Berg and F. V. Smith. diags Mech Eng 46:577-82 O '24
Piping for high pressure and temperature. R. A. Fiske. diags Power Pl Eng 28:424-7 Ap 15 '24
Possible methods of reheating steam. J. R. McDermet. Power 60:1014-16 D 23 '24
Progress report on work at Harvard university on the Joule-Thomson effect. R. V. Kleinschmidt. Mech Eng 46:84-5 F '24
Recent development in the use of high-pressure and superheated steam. B. N. Broido. il diags Eng Soc W Pa 40:299-330 D '24; Same cond. Power Pl Eng 29:130-3 Ja 15 '25; Same cond. Power 61:352-4 Mr 3 '25; Abstract. Mech Eng 47:295-6 Ap '25; Discussion. Eng Soc W Pa 40:331-8 D '24
Regenerative feed heating by superheated steam. T: B. Morley. Engineer 138:544-5 N 14 '24; Abstract. Mech Eng 47:129-30 F '25
Steam at 1,200 deg. F. in a unique power plant for propelling torpedoes. diag Power 60:405-6 S 9 '24
Superheat engineering data. 6th ed., rev. 208p Superheater co., 17 E. 42d st., New York '25
Superheat increases efficiency of steam generation and use. il Power Pl Eng 28:3-5 Ja 1 '24
Superheat with reciprocating engines. Marine Eng 30:414-15+ Jl '25
Superheated steam. H. F. Ely and L. Weil. il diags Ind Management 67:212-15 Ap '24
Superheated steam in high pressure underground lines. L. A. Foster. Power Pl Eng 29:581-2 Je 1 '25
Superheated steam in turbine nozzles. Power 62:445-6 S 22 '25
Superheated steam insulation pays; cost tables. R. H. Heilman. Chem & Met Eng 31: 934-6 D 15 '24
Superheated steam shovel. H. B. Oatley. Min Cong J 10:176-7 Ap '24
Superheated steam used directly in closed heaters. B. C. Sprague. Power 59:160-1 Ja 29 '24; Discussion. 59:498, 917; 60:262-3 Mr 25, Je 3, Ag 12 '24
Trials show superheat saves fuel. il Marine R 54:212-13 Je '24
Use of reheated steam. R. H. Collingham. diags Electrician 94:725-7 Je 19 '25
Use of superheated steam in power generation for wood-pulp and paper mills. J. D. Morgan. Power 59:613-14 Ap 15 '24; Discussion. 59:875 My 27 '24
Der wärmeübergang bei kondensierendem heissdampf. W. Stender. diags Zeit Ver Deutsch Ing 69:905-9 Jl 4 '25
What will be the future development of steam pressures and temperatures for marine work? S. M. Robinson. Marine Eng 29:451-3 Ag '24
Why is superheated steam used for prime movers? Power Pl Eng 29:1019 O 1 '25

SUPERHEATERS
Adamson-Cruse accumulator superheater. Blast F & Steel Pl 12:76 Ja '24
Marine superheaters for river boats. Marine R 54:341 Ag '24
New detachable tube superheater. il diags Engineer 137:667-8 Je 13 '24
Operation of radiant heat superheaters. diag Power Pl Eng 28:528-9 My 15 '24
Superheat increases efficiency of steam generation and use. il Power Pl Eng 28:3-5 Ja 1 '24
See also Locomotives—Superheaters; Superheated steam

SUPERHEATERS—*Continued*

Failures

Explosion of a power station superheater. Engineering 120:225 Ag 21 '25

SUPERHEATING

Superheating of liquids. F. B. Kenrick, C. S. Gilbert and K. L. Wismer. diags J Phys Chem 28:1297-1307 D '24

See also Pyrelectric heating

SUPERHIGHWAYS. See Roads—Superhighways

SUPERINTENDENT of documents. See United States—Superintendent of documents

SUPERINTENDENTS' cars. See Cars, Superintendents'

SUPERMARINE aviation works, limited

Supermarine successes. Aviation 19:584-5 O 26 '25

SUPERPHOSPHATES. See Phosphates

SUPERPOWER (term)

Economic aspects of electric power. E. D. Dreyfus. N E L A Bul 12:218-19 Ap '25; Same. Am Inst E E J 44:450 My '25

The era of superpower. W. S. Murray. N E L A Bul 12:293-5 My '25

Review of the development of the electric light and power industry 1920-30. D: Cowan. Elec W 85:1393-4 Je 27 '25; Same. Can Eng 49:273 S 1 '25

Superpower defined. Elec W 85:718, 877 Ap 4, 25 '25

SUPERPOWER stations. See Electric plants—Interconnection

SUPERPOWER surveys

Coal in power development. il Min Cong J 10: 361-2 Ag '24

Engineers' committee reports on northeastern super-power; abstracts. map Eng N 93:186-8 Jl 31 '24; Power 60:179-82 Jl 29 '24; Bradstreet's 52:493 Ag 2 '24; Elec W 84:205-7 Ag 2 '24; Eng & Contr (W W) 62:355-6 Ag 13 '24; Iron Tr R 75:359 Ag 7 '24; Mech Eng 46:570 S '24

Fault found with cost data of Giant power survey report. J. B. Crane. Elec W 85:616 Mr 21 '25

Further studies of giant power. C: Penrose. N E L A Bul 12:367-71 Je '25

Giant power and coal. M. L. Cooke. Ann Am Acad 111:212-18 Ja '24

Giant power survey report; discussion. W. S. Murray. Elec W 85:512-13 Mr 7 '25

Pinchot superpower report outlines plan and cost. il Coal Age 27:370 Mr 5 '25

Power development policy for Pennsylvania outlined. Eng N 94:365-7 F 26 '25

Power in Pennsylvania. C: Penrose. N E L A Bul 12:224-9 Ap '25; Excerpts. Elec W 85: 578-9 Mr 14 '25; Power 61:510-11 Mr 31 '25

Super power. S. Q. Hayes. Ind Management 67:136-8 Mr '24

See also Electric plants—Interconnection

SUPERPOWER system. See Electric plants—Interconnection

SUPER-PRESSURE steam

Benson generator produces 3,200-lb. steam in test. W. A. Johnston. Power 59:457 Mr 18 '24

Benson super-pressure plant. P. W. Swain. il diags plan Power 57:796-801, 842-6 My 22-29 '23; Abstract. Elec R (Lond) 92:955-6 Je 15 '23; Discussion. Power 58:190-1; 59: 104 Jl 31 '23, Ja 15 '24

Der einfluss des hochdruckdampfs auf die entwicklung industrieller dampfanlagen. C: Eberle. diags Zeit Ver Deutsch Ing 68:1009-16 S 27 '24

Experiments on the generation of critical steam. J. F. Overwyn. diags Power 60:693-4 O 28 '24

Limiting possibilities in steam plants. A. L. Mellanby and W: Kerr. Engineering 119: 334-6 Mr 13 '25

Steam generation at extra-high pressures; Atmos generator; abstracts. V: Blomquist. Engineering 118:432-3 S 19 '24; Power 60: 745 N 4 '24

Steam generation at the critical temperature; the Benson 3200 lb. pressure boiler. Soc Chem Ind J (Chem & Ind) 43:249-50 Mr 7 '24; Electrician 92:324 Mr 14 '24; Chem Age (Lond) 11:216 Ag 30 '24

Theory of the Benson superpressure steam generator. Soc Chem Ind J (Chem & Ind) 43:781-2 Ag 1 '24; Same. Blast F & Steel Pl 12:476-7 O '24

Using high-pressure steam in the industrial power plant. A. F. Sheehan. Power 62:614-15 O 20 '25

What will be the future development of steam pressures and temperatures for marine work? S. M. Robinson. Marine Eng 29:451-3 Ag '24

See also Steam plants—High pressure

SUPERSATURATED steam

Supersaturation. A. L. Mellanby. Engineer 139:543 My 15 '25

SUPERSATURATION

Supersaturation of gases in liquids. F. B. Kenrick, K. L. Wismer and K. S. Wyatt. diags J Phys Chem 28:1308-15 D '24

See also Solution (chemistry)

SUPPLY and demand

Law of demand and the theory of probability. T. H. Brown. Am Statis Assn J 20:223-30 Je '25

Matching production to demand. E. H. Fish. Management & Adm 9:10 Ja '25

More about that bugaboo—saturation. J: A. Murphy. Ptr Ink 128:17-20 Ag 7 '24

Right way to limit production. E. F. DuBrul. Ptr Ink 130:33-4+ Ja 29 '25

Why not censor industrial ventures? E. H. Fish. Management & Adm 7:77-8 Ja '24

See also Overproduction

SUPREME court. See United States—Supreme court

SURETY association of America

Surety association of America. R. R. Gilkey. Spectator 113:32+ sec 2 Jl 17 '24

SURETY bonds. See Insurance, Surety and fidelity; Suretyship and guaranty

SURETY insurance. See Insurance, Surety and fidelity

SURETYSHIP and guaranty

Arizona dissatisfied with surety companies. Munic & Co Eng 69:20 Jl '25

Bidder's bond vs. certified checks at highway lettings. A. E. Horst. Munic & Co Eng 66: 236-8 My '24

Bonds as a gauge of a contractor's responsibility. N. F. Helmers. Munic Eng 66:60-3 F '24

Case for the contractor. H. H. Wilson. Eng N 92:69-70 Ja 10 '24; Correction. 92:628 Ap 10 '24; Discussion. E. G. Bradbury. 92:296 F 14 '24

Case for the surety company. R. H. Towner. Eng N 92:68-9 Ja 10 '24

Contract bonding conference meets again. Eng N 94:910 My 28 '25

Contract surety bond conference recommends reforms. Eng N 93:555-6 O 2 '24

Determining the responsibility of contractors. E. W. Bush. Eng N 91:793-4 N 15 '23

Eliminating irresponsible bidders. Am Ind 25: 26 Ja '25

Fiduciary suretyship. J. W. Mason. Spectator 112:38-9 Ja 17 '24

General contractors seek to improve bonding practices. Eng & Contr (Bldgs) 63:851-2 Ap 24 '25

How the American surety co. creates new customers in a limited field. J. Henle. Ptr Ink M 8:112+ My '24

Irresponsible bidder. Eng & Contr (R & S) 63:712-14 Ap 1 '25

Irresponsible bidder. R. L. Warren. Munic & Co Eng 69:169-78 O '25

Surety company officials meet contractors. Eng N 92:1074 Je 19 '24

See also Insurance, Surety and fidelity

SURFACE combustion. See Combustion, Surface

SURFACE energy
Interpretation of surface energy data. G: M. Bennett. Chem Soc J 125:958-9 Ap '24

SURFACE phenomena
Influence of curvature on air saturation of water and its relation to the air-binding of filters. J: R. Baylis. bibliog Ind & Eng Chem 17:974-9 S '25

SURFACE tension
Adsorption from the gas phase at a liquid-gas interface. T: Iredale. diags Philos Mag 6th ser 48:177-93; 49:603-27 Jl '24, Mr '25
Colloid studies in rosin sizing. R. Lorenz. Paper Tr J 78:47-52 Je 12 '24
Determination of molecular diameters from surface-tension measurements. S. Mokroushin. Philos Mag 6th ser 48:765-8 N '24
Determination of surface tension from the maximum pressure in bubbles. S: Sugden. diag Chem Soc J 125:27-31 Ja '24
Determination of surface tension from the rise in capillary tubes. S: Sugden. Am Chem Soc J 47:60-4 Ja '25
Determination of surface tension with very small volumes of liquid, and the surface tensions of octanes and xylenes at several temperatures. T. W. Richards, C. L. Speyers and E. K. Carver. diag Am Chem Soc J 46:1196-1207 My '24
Effect of sodium hydroxide upon the surface tension of a solution of sodium nonylate. W: D. Harkins and G: L. Clark. Am Chem Soc J 47:1854-6 Jl '25
Impact of a solid sphere with a fluid surface and the influence of surface tension, surface layers, and viscosity on the phenomenon. G. E. Bell. diags Philos Mag 6th ser 48:753-64, pl 15 N '24
Influence of the orientation of surface molecules on the surface tension of pure liquids. S: Sugden. Chem Soc J 125:1167-77 My '24
New determination of the constant *N* of Avogadro, based on its definition. P. Lecomte du Noüy. Philos Mag 6th ser 48:664-72, pl 13 O '24
Relation between surface tension, density, and chemical composition. S: Sugden. Chem Soc J 125:1177-89 My '24
Structure of films of water on salt solutions; surface tension and adsorption for aqueous solutions of sodium chloride. W: D. Harkins and H. M. McLaughlin. Am Chem Soc J 47:2083-9 Ag '25
Surface concentration of casein crystalline egg-albumin and crystalline haemoglobin. J. M. Johlin. J Phys Chem 29:897-913 Ag '25
Surface concentration of gelatine at a liquid-gas interface as indicated by the change in surface tension. J. M. Johlin. diag J Phys Chem 29:271-84 Mr '25
Surface concentration of sodium oleate and of colloidal sulphur. J. M. Johlin. J Phys Chem 29:1129-39 S '25
Surface tension as a factor in the priming of steam boilers. E. B. Millard and T. E. Mattson. diags Ind & Eng Chem 17:685-6 Jl '25
Surface-tension crystal v. saturated solution—the concentration cell: finely divided salt/supersaturated solution/saturated solution/large crystals. L. Soep. Philos Mag 6th ser 50:675-80 O '25
Surface tension of colloidal solutions and dimensions of certain organic molecules. P. Lecomte du Noüy. il Philos Mag 6th ser 48: 264-77 Ag '24; Abstract. J Fr Inst 198:811-12 D '24
Surface tension of crude oils. E. H. Harvey. Ind & Eng Chem 17:85 Ja '25
Surface tension of gelatin solutions. C. E. Davis, H: M. Salisbury and M. T. Harvey. Ind & Eng Chem 16:161-3 F '24
Surface tension of sugar factory products. K. R. Lindfors. Ind & Eng Chem 16:813-16 Ag '24
Surface tensions of aqueous phenol solutions; activity and surface tension. A. K. Goard and E. K. Rideal. Chem Soc J 127:1668-76 Jl '25
Surface tensions of aqueous phenol solutions; saturated solutions. A. K. Goard and E. K. Rideal. Chem Soc J 127:780-7 Ap '25
Surface tensions of aqueous solutions of various organic compounds. P. R. Edwards. Chem Soc J 127:744-7 Mr '25
Theory of molecular interaction in the liquid state. G. N. Antonoff. Philos Mag 6th ser 50:265-89 Jl '25
Variation of surface tension with temperature and some related functions. S: Sugden. Chem Soc J 125:32-41 Ja '24
Viscosities and surface tensions of the soda-lime-silica glasses at high temperatures. E: W. Washburn and E. E. Libman. diags Ill U Eng Exp Sta Bul 140:51-71 Ap 14 '24
Viscosity and surface tension of solutions of iodine and potassium iodide. E. A: Dancaster. Chem Soc J 125:2036-7 O '24
Wetting ability and its relation to industry. W. H. Nuttall. Soc Dyers & Col J 40:104-11 Ap '24
Wetting of cotton; wetting of raw cotton by hot starch pastes. F: D. Farrow and S. M. Neale. bibliog Textile Inst J 16:T209-22 Jl '25

See also Capillarity; Interfacial tension; Parachor

SURFACING machines. See Facing tools

SURGE tanks
Design of surge chambers. P. E. Baumann. diag Can Eng 46:259-60 F 19 '24
Grouting reinforces rock at Oak Grove surge chamber; novel extensometers for tests during work in tunnel. il plan Eng N 95:746-9 N 5 '25
Steel multiple stops swirling in surge chamber. diags plan Eng N 95:709 O 29 '25

SURGICAL instruments
Large uses of steel in small ways. il Iron Tr R 75:289 Jl 31 '24

See also Dental instruments and apparatus

SURPLUS
Accounting for surplus. P. W. Pinkerton. 120p Ronald press '24
Protection of working capital. J. H. Bliss. Paper Tr J 79:57-60+ Ag 28 '24
Surplus and its constructive application; capital requirements and control. J. H. Bliss. Management & Adm 7:529-32, 653-8 My-Je '24

SURPLUS materials. See Street railroads—Surplus materials

SURTAX. See Income tax—United States

SURVEYING
City lot and subdivision surveys. W. L. Prouty. Eng N 95:718-19 O 29 '25
Elementary surveying. F: W. Medaugh. 256p Lord Baltimore press, Baltimore '25
Geodetic survey makes precise ice traverse in Minnesota. C. M. Durgin. il Eng N 93:221 Ag 7 '24
Horizontal tacheometry. C. H. Ley. diags Engineering 118:505-7 O 10 '24
Ladder on truck facilitates cross-sectioning of deep cuts. R. T. Brown. il Eng N 94:159 Ja 22 '25
Precise tape measurement over ice. H. M. Hill. Eng & Contr (Ry) 62:1129-31 N 19 '24
Principles and practice of surveying. C: B. Breed and G: L. Hosmer. 593p Wiley '23
Rapid reconnoissance and mapping secured by pacing. F. A. Glass. Eng N 95:686-7 O 22 '25
Survey control in driving 3-mile water-supply tunnel. R: R. Bradbury. il Eng N 95: 594-8 O 8 '25
Surveying and levelling in clay mining. Chem Age (Lond) 11:sup18 D 20 '24
Surveying as practiced by civil engineers and surveyors. J: Whitelaw, jr. 7th ed., rev. & enl. 574p Van Nostrand '24
Surveys in the province of Quebec. G. Cote. Can Eng 49:123-4 Jl 14 '25

SURVEYING—*Continued*
Transmission line surveys and field engineering. O. Davidson. Eng N 92:808-9 My 8 '24

See also Azimuth; Benchmarks; Building surveys; Earthwork—Tables, calculations, etc.; Geodesy; Hydrographic surveying; Leveling; Magnetic surveying; Meridian; Mine surveying; Photographic surveying; Plane table; Railroad surveying; Roads—Grading; Roads—Surveying; Surveying instruments; Topographical surveying; Triangulation; United States—Geological survey

Cost

Land subdivision survey costs. R. Conover. plan Eng N 95:544-5 O 1 '25
Motor car cost on survey work. W: A. Weldin. Eng N 94:866 My 21 '25

Study and teaching

Colorado inaugurates a summer surveying camp. H. J. Gilkey. il Eng Educ 14:475-7 Ap '24
Summer practice courses in surveying at the Agricultural and mechanical college of Texas, College Station, Texas. B. Bird. il J Eng Educ 15:760-4 Je '25

Tables, calculations, etc.

Adjusting co-ordinate stations derived from different centers and azimuths. L. F. Hammond. Eng N 95:604-5 O 8 '25
Curve problem met in land surveying. J: T. Ramson. Can Eng 46:430-1 Ap 15 '24
Slope measurements for horizontal distances. W. A. Bowen. Eng & Contr (Ry) 62:1121-2 N 19 '24

SURVEYING, Aerial
Aerial maps to facilitate California home-site survey. T. R. Mini. map Eng N 93:264-5 Ag 14 '24
Aerial photographic surveying. Can Eng 47: 601-2 D 16 '24
Aerial photographs, surveys and maps. J. W. Pierce. il Can Eng 48:486-9 My 12 '25
Aerial surveying in Canada. Eng & Contr (G C) 63:1125-6 My 20 '25
Aerial surveys in Manitoba. Can Eng 48:590 Je 16 '25
Aeroplane in engineering. L: D. Huntoon. Eng & Contr (Ry) 61:400-3 F 20 '24
Airplane speeds up power surveys. J. B. Beadle. il maps Elec W 86:311-14 Ag 15 '25
Airplanes used for surveying Canadian Northwest. il Eng & Min J 117:170 Ja 26 '24
Commercial aspect of aerial photography. E. Wilson. il map Can Eng 49:325-7 S 22 '25
Correcting the lean in aerial photographs. E. H. Corlett. diags Eng N 93:352-3 Ag 28 '24
Difficulties and possibilities in aeroplane surveying. H. L. Cooke. Eng & Contr (Ry) 62:631-7 S 17 '24
Equipment used for aerial surveying. E. Robinson. il Mech Eng 47:170-4 Mr '25; Discussion. 47:266, 364 Ap-My '25
Making railway reconnaissance surveys in Canada by aerial methods. H. K. Wicksteed. il map Eng N 94:220-4 F 5 '25; Discussion. 94:408, 614 Mr 5, Ap 9 '25
Some features in the present position of aerial photographic survey. H. H. Thomas. il maps Roy Aeronautical Soc J 28:475-91; Discussion. 491-500 Jl '24
Stereophoto surveying from the air; Brock process. il diags map Eng N 94:604-8 Ap 9 '25; Discussion. 95:482-3 S 17 '25
Transmission line work aided by aerial survey. F. A. Allner and J. R. Baker. map Eng N 92:360-3 F 28 '24

SURVEYING, Magnetic. See Magnetic surveying

SURVEYING, Photographic. See Photographic surveying

SURVEYING, Topographical. See Topographical surveying

SURVEYING Instruments
Construction equipment—past and present. il Eng N 92:994-5 Je 5 '24
Groma or cross bar of the Roman surveyor. D. G. Caetani. diags Eng & Min J 118:855 N 29 '24; Same. Eng & Contr (Ry) 63:167-8 Ja 21 '25; Same abr. Eng N 93:1042 D 25 '24
Gurley precise transit. il Eng & Contr (R & S) 62:331 Ag 6 '24
New instruments and apparatus for surveys. il diags Eng & Contr (W W) 61:1085-9 My 14 '24
Sterling precision transit. il Eng & Min J 120:434 S 12 '25
Transits without stadia wires. E. S. M. Lovelace. Can Eng 47:365-6 S 23 '24

See also Plane table; Protractors; Stereocomparator; Stereotopometer

Manufacture

Development and manufacture of surveying and other engineering instruments. W. L. Egy. Am Water Works Assn J 13:193-200 F '25; Same. Can Eng 47:299-302 S 2 '24

SURVEYORS' lamps. See Electric lamps, Surveyors'

SURVEYS, Market. See Market surveys

SUSPENSOIDS. See Colloids

SUSQUEHANNA river
Susquehanna river in New York and evolution of western New York drainage. H. L. Fairchild. New York State Museum Bul 256:1-99 [bibliog. p. 93-5], pl 1-39 '25
Susquehanna river project to cost $52,000,000. Power 61:79 Ja 13 '25

SWAGING
Swaging automobile axles. J: Williams. il diags Am Mach 59:732 N 15 '23
Swaging operation in a screw machine. J. McCall. diags Am Mach 60:222-3 F 7 '24

SWAGING machines
Coulter & McKenzie rotary swaging machine. il diag Am Mach 62:40 Ja 1 '25
Hot-swaging of rear-axle shafts. R. A. DeVlieg. il diag Soc Auto Eng J 14:507-10 My '24; Discussion. 15:108 Jl '24

SWAN, Joseph Wilson, 1828-1914
Inventions of Sir Joseph Wilson Swan, F.R.S. Elec R (Lond) 94:742-3 My 9 '24

SWASEY, Ambrose, 1846-
Ambrose Swasey awarded John Fritz medal. Iron Tr R 74:302 Ja 24 '24; Power 59:194 Ja 29 '24; Am Inst E E J 43:163 F '24; Mech Eng 46:164, 368-70 Mr, Je '24

SWEATING system
Home sweatshop and its health problems. C: V. Craster. il Nation's Health 6:306-8+ My '24

SWEDEN

See also Hydroelectric plants—Sweden; Railroads—Electrification—Sweden; Railroads—Sweden; Telephone—Sweden

Commerce

Our trade with Sweden. B. H. Brilioth. il World's Markets 15:3-4 Ap '24; Same. Dun's Int R 43:53-4 My '24
Selling in Swedish markets. H. Blauvelt. il Ptr Ink M 9:33+ O '24
Sweden as a market. Chem Age (Lond) 13: 325 S 26 '25
Sweden's international balance of payments in 1924. Econ W n s 30:667 N 7 '25
Swedish imports increasing. World's Markets 14:19-20 F '24

Economic conditions

Situation in Sweden. Elec R (Lond) 96:672-3 Ap 24 '25
Swedish key industries. Comm & Fin Chr 118: 3151 Je 28 '24

See also Banks and banking—Sweden; Cost of living—Sweden; Cooperation—Sweden; Finance—Sweden; Housing—Sweden; Labor and laboring classes—Sweden; Money—Sweden; Strikes and lockouts—Sweden; Wages—Sweden

SWEDEN—*Continued*

Industries and resources

Oldest industrial firm in the world; Bergslaget, a company in Sweden, dates back 701 years. M. E. White. il Am Exporter 94:17-19+ Je '24

Schweden als industrieland. Reichardt. Zeit Ver Deutsch Ing 68:347-8 Ap 5 '24

Sweden's largest industrial company; world's oldest enterprise, Stora Kopparbergs bergslags aktiebolag. A. B. Sloane. il Iron Age 114:751-4 S 25 '24

See also Automobile industry and trade—Sweden; Electric industries—Sweden; Forests and forestry—Sweden; Iron mines and mining—Sweden; Machinery industry—Sweden; Mining industry and finance—Sweden; Oil shales—Sweden; Paper industry and trade—Sweden; Water power—Sweden

Navy

See also Warships—Sweden

Statistics, Vital

Vital statistics of Sweden and England and Wales; an essay in international comparison. M. Greenwood. Roy Statis Soc J 87: 493-531; Discussion. 532-43 Jl '24

SWEET, John Edson, 1832-1916

John Edson Sweet, a story of achievement in engineering and of influence upon men. A. W. Smith. 220p American soc. of mechanical engineers, New York '25

Sketch. A. W. Smith. por Mech Eng 47:157-60 Mr '25

SWEET gum

Micrography of sweet gum pulp. L. Vidal. il Paper Tr J 81:49-50 Jl 16 '25

SWEET potato flour

Value of sweet potato flour in bread-making. H. C. Gore. Ind & Eng Chem 15:1238 D '23

SWEETENING compounds

Chemistry of synthetic sweetening compounds. G. M. Dyson. Chem Age (Lond) 11: 572-4 D 6 '24

SWEETLAND, Ben J.

One of two men in New York who can sell printing. M. S. Balyeat. Ptg Art 45:29-32 Mr '25

SWEETWATER, Texas

Sweetwater—central city of west Texas. il Comm & Fin 14:785 Ap 22 '25

SWELLING

Studies in swelling; the swelling of agar-agar gels as a function of water content before swelling. B. L. Clarke. Am Chem Soc J 47:1954-8 Jl '25

SWETLAND, Horace Monroe, 1853-1924

Sketch. por Am Mach 60:984d-e Je 26 '24; Automotive Ind 50:1341-5 Je 19 '24; Eng N 92:1073 Je 19 '24; Iron Age 113:1801-2 Je 19 '24; Power 59:1051 Je 24 '24; Ptr Ink 127:97-8 Je 19 '24; Ind Management 68:46 Jl '24; Soc Auto Eng J 15:60-1 Jl '24

SWIMMING

Teach 1,000 how to swim in Springfield campaign. il Nat Safety N 10:29 Ag '24

SWIMMING pools

Cincinnati has big swimming pool. il Dom Eng 110:20 F 21 '25

Designing swimming pools with reference to operation and sanitation. J. J. Hinman, jr. Munic Eng 66:77-82 F '24

Indoor swimming pool built and operated by ice company. J: T. Bartlett. il diags plan Eng & Contr (Bldgs) 61:1383-6 Je 25 '24

Municipal swimming pool, Paris. G. F. Sebille. il Am Inst Arch J 12:316-20 Jl '24; Same abr. Eng & Contr (Bldgs) 63:1366-8 Je 24 '25

Outdoor swimming pools. S. Pinel. diags plans Eng & Contr (W W) 61:1066-75 My 14 '24

La piscine et les bains-douches municipaux de la Butte-aux-Cailles, à Paris. A. Bidault des Chaumes. il diags plans Génie Civil 85:53-9, pl 2 Jl 19 '24

Sanitation of swimming pools. il Dom Eng 109:21-3+ D 6 '24

Sanitation of swimming pools. V. M. Ehlers. Munic & Co Eng 67:137-8 S '24

Some swimming pool problems. R. O. Friend. Eng & Contr (W W) 64:865-6 O 14 '25

Story of a bigger bath; description of the sanitary arrangements of the Natatorium in Olympic park, Irvington, N.J. H: F. Baillet. il diag plan Sanitary & Heat Eng 100:303-7+ N 16 '23

Swimming pool care and design. J. J. Hinman, jr. Dom Eng 111:30+ Je 27 '25

Swimming pool standards—uniform and practicable regulations. A. M. Crane. il plan Nation's Health 6:99-101+ F '24

Swimming pools. J. R. Shanklin. Dom Eng 108:26 S 6 '24

Swimming pools and the engineer. W: S. Franklin. Eng & Contr (W W) 63:321-4 F 11 '25

Swimming pools for country clubs. C: D. Lay. il diag Arch Forum 42:157-8 Mr '25

Use of chlorine to sterilise water. Soc Chem Ind J (Chem & Ind) 44:374 Ap 10 '25

Wallace & Tiernan chloro-boat. il Eng & Contr (W W) 63:1303-4 Je 10 '25

Worth-while water; the Sovereign hotel, Chicago, provides a swimming pool for its patrons and pure water for drinking purposes. F. Knox. il Sanitary & Heat Eng 100:430-1+ D 28 '23

SWIMMING pools, Concrete

Building a 1,500,000-gallon pool at Youngstown, O. il Concrete 27:31 Jl '25

Cinderella miners build swimming pool. il diag Coal Age 26:362 S 11 '24

Construction of outdoor swimming pool at Cedar Rapids, Iowa. H. R. Green. il Munic Eng 65:236-8 N '23

Features of design in 1,000-foot outdoor swimming pool. il diags Eng N 94:434-6 Mr 12 '25

Largest swimming pool for ten thousand swimmers. il Sci Am 129:403 D '23

Should concrete swimming pools be emptied in winter? C. D. Hale. Eng N 91:1068 D 27 '23

Swimming pool at Sunnyside. il Can Eng 40: 247 Ag 25 '25

Venetian pool at Coral Gables. il Concrete 25: 2-3 Jl '24

SWIMMING suits

Advertising

Flash of red that won national distribution for Jantzen. Sales Management 7:1737-8 N '24

SWINDLERS and swindling

At the end of fortune's rainbow. H. J. Donnelly. Am Bankers Assn J 16:518-22 F '24

Community crook catching. W. Bishop. Nation's Business 13:22-4 Ap '25

Cycle of mystery investments. C. Honsford. Am Bankers Assn J 17:691 My '25

Help or money wanted? K. Coolbaugh. Nation's Business 13:51-2 Jl '25

How to prevent crooks from stealing a billion dollars a year by use of mails. Ptr Ink 125: 61-2+ D 6 '23

See also Advertising, Fraudulent; Fraud; Promoters, Fraudulent

SWINE

Los Angeles garbage feeds 40,000 hogs on Fontana farm. il plan Eng N 95:208-12 Ag 6 '25

Transportation

Methods of watering and showering hogs in transit. diag Ry R 74:564-6 Mr 22 '24

Transportation of hogs by motor truck. E. L. Browne. il map Pub Roads 5:20-2 Ag '24

SWINE houses

Sunshine hog houses. il Bldg Age 46:188 N '24

SWITCHBACK railroads. See Railroads, Switchback

SWITCHBOARDS
Checking switchboard-instrument connections. R. Brown. diags Power 60:253-4 Ag 12 '24
Compact back-of-board arrangement. D. D. Clarke. il Elec W 85:931 My 2 '25
Cost of switchboard for 25,000-kw. turbines. Elec W 83:485 Mr 8 '24
Design of power switchboards. E. G. Bern. il diags Power Pl Eng 28:285-6 Mr 1 '24; Same. Sibley J 38:200+ N '24
Designating switchboard devices. R. Brown. Power 58:993-4 D 18 '23
Installation and care of power switchboards. il diags Ind Eng 83:327-32+, 378-9+ Jl-Ag '25
Method of handling installation of new switchboard. H. S. Rich. il Ind Eng 83:40-1 Ja '25
Midget type motor starting panels. il Engineer 139:142 Ja 30 '25
Modern switchboards demand care in wiring. C. S. Bousum. il diags Power Pl Eng 29:796-8 Ag 1 '25
Notes on switchboard operation. J. E. Housley. Power 60:459 S 16 '24
Removable truck type panels. H. E. Starbuck. il Gen Elec R 27:293-7 My '24
Rewired switchboard at Hartford plant. il Elec W 84:846 O 18 '24
Slate as a switchboard material. R. Notvest. il diags Ind Eng 83:271-5 Je '25
Standardized panel switchboard for pumping plants urged. E. S. Conrad. il J Elec 54:252 Ap 1 '25
Steel switchboard proves of commercial value. il Power Pl Eng 29:872 Ag 15 '25
Sub-station switchgear. il Electrician 95:10 Jl 3 '25
Switchboard for indicating tripped circuits. D. D. Clarke. diags Elec W 85:354 F 14 '25
Switchboard instruments and wiring. R. Martindale. il J Elec 54:488 Je 1 '25
Switchboard meters for power plants. J. E. Housley. il Power 62:362-4 S 8 '25
Traction switchgear for Bombay section of the Great Indian Peninsula railway. il Electrician 94:600 My 22 '25
Truck-type switching equipments. M. Cornelius. il Elec J 21:225-8 My '24
Use of switchboards and protective devices. il diags Power Pl Eng 29:86-90 Ja 1 '25

SWITCHES, Electric. See Electric switches

SWITCHES, Railroad. See Railroads—Switches, frogs, etc.; Street railroads—Switches, frogs, etc.

SWITZERLAND
Switzerland for the tourist. A. Junod. il Bankers M 110:583-90 Mr '25

See also Electric industries—Switzerland; Electric plants (central stations)—Switzerland; Finance—Switzerland; Hydroelectric plants—Switzerland; Silk manufacture and trade—Switzerland; Street railroads—Switzerland; Tariff—Switzerland

Commerce

Swiss trade statistics. Elec R (Lond) 93:950-1; 94:811-12 D 21 '23, My 16 '24
Switzerland: foreign trade in 1923; Geneva motor show. Economist 98:739-40 Ap 5 '24
Trade in Switzerland. Engineering 120:264-5 Ag 28 '25

Economic conditions

Investing in Switzerland. Moody's Inv Serv 16:181-4 My 1 '24
National wealth of Switzerland in 1923. Econ W n s 29:160 Ja 31 '25
Swiss engineering in 1923. Elec R (Lond) 94: 982-3 Je 13 '24
Swiss engineering industry. Elec R (Lond) 95: 834 N 28 '24
Swiss exchange and money rates, 1915-1923. Fed Res Bul 10:88-92 F '24
Swiss finances and economics in 1924. Bankers M 110:849+ My '25
Switzerland; some features of 1923. Economist 98:60 Ja 12 '24

SWOPE, Gerard
Portrait. Gen Elec R 28:282 My '25

SYDNEY, New South Wales

Bridges

Accepted design for Sydney harbor bridge, Australia. il Sci Am 130:391 Je '24
Competitive designs for the Sydney harbour bridge. diags Engineering 118:129-32 Jl 25 '24
Rigid suspension bridge design with wire cables. D. B. Steinman. il diags Eng & Contr (Bldgs) 63:1377-86 Je 24 '25
Sydney harbour bridge. Engineering 120:487-8 O 16 '25
Sydney harbour bridge. il Engineer 137:253 Mr 7 '24

SYENITE
Magnetite segregation in banded syenite in Minnesota. F. F. Grout. il map Econ Geol 20:424-30 Ag '25

SYMBOLS
Engineering symbols. Elec Ry J 65:551 Ap 4 '25
Report of progress of committee number 20, on the standardization of technical nomenclature. Eng Educ 14:135-41 N '23
Symboling of parts for interchangeable manufacture. C. H. Lage. Am Mach 62:20 Ja 1 '25
Symbols in the drafting room. R. W. Shelmire. Eng & Contr (Bldgs) 61:481 F 27 '24

See also Abbreviations; Electric symbols; Heat—Terminology

SYMBOLS, Chemical. See Chemical symbols

SYMMETRY. See Design

SYNAGOGS
Congregation B'Nai Abraham, Newark, N.J. Arch & Bldg 57:44+, pl 114-16 My '25
Free synagogue, New York city. il Arch & Bldg 55:119-20, pl 239-42 D '23
Isaiah Temple, Chicago, Ill. A. S. Alschuler. il Am Arch 126:623-6, pl 217-24 D 31 '24
Temple Beth-el, Detroit. Arch Forum 40:228, pl 73-4 My '24
Temple B'Nai Abraham, Newark, N. J. il diags plans Am Arch 127:115-18, pl 29-33 F 11 '25

SYNCHRONOUS converters. See Converters, Synchronous

SYNCHRONOUS motors. See Electric motors, Synchronous

SYNCHROSCOPE
Various methods of synchronizing. J: Auchincloss. diags Gen Elec R 28:692-702 O '25; Abstract. Elec W 86:905-6 O 31 '25

SYNDICALISM
University debaters' annual. E. M. Phelps. p 59-100 H. W. Wilson co. '24

See also Socialism

SYNTHESIS
Benzoylhydroperoxide; preparation and application to organic synthesis. H. Hibbert and C. P. Burt. Am Chem Soc J 47:2240-3 Ag '25
Studies of the glucosides; the synthesis of thioindican. J. Craik and A. K. Macbeth. Chem Soc J 127:1637-40 Jl '25
Synthesis of amygdalin. R. Campbell and W. N. Haworth. Chem Soc J 125:1337-43 Je '24
Synthesis of an azocyanine. F. M. Hamer. Chem Soc J 125:1348-57 Je '24
Synthesis of 4-tetrahydroquinolone and a new synthesis of 4-methoxyquinoline. G: R. Clemo and W: H: Perkin, jr. Chem Soc J 125:1608-22 Ag '24
Synthesis of water over nickel and copper catalysts. A. T. Larson and F. E. Smith. diag Am Chem Soc J 47:346-55 F '25
Synthetical experiments in the *iso*quinoline group. R. D. Haworth, W: H: Perkin, jr. and J: Rankin. Chem Soc J 127:1434-62 Je '25
Synthetical experiments in the *iso*quinoline group; synthesis of substances allied to oxyberberine. R. D. Haworth, W: H: Perkin, jr. and H. S. Pink. Chem Soc J 127:1709-23 Jl '25

SYNTHESIS—*Continued*
Synthetical experiments in the naphthyridine groups. J: M. Gulland and R. Robinson. Chem Soc J 127:1493-1503 Jl '25

See also Electrosynthesis; Indigo, Synthetic

SYNTHETIC organic chemical manufacturers' association
Annual meeting, New York, Dec. 14. Am Dyestuff Rep 12:918-19 D 17 '23; Oil Paint & Drug Rep 104:19+ D 17 '23; Textile World 64:3695-6+ D 22 '23; Color Tr J 14:7-9 Ja '24
Annual meeting, New York, Dec. 12. Am Dyestuff Rep 13:843-8 D 29 '24; Oil Paint & Drug Rep 106:19+ D 15 '24; Textile World 66:3577-9+ D 20 '24
Annual outing, Bellport, L.I., June 18-20. Textile World 67:4134 Je 27 '25
Summer meeting, Bellport, L. I., June 19-21. Oil Paint & Drug Rep 105:19 Je 23 '24

SYPHILIS
Economic viewpoint upon syphilis in industry. W. L: Hartman. J Ind Hygiene 5:341-6 Ja '24
New organic mercurials and their therapeutic applications. E. C. White. bibliog Ind & Eng Chem 16:1034-6 O '24

SYRACUSE, New York
Syracuse the foundrymen's convention city. A. F Saunders. il Metal Ind 23:353-9 S '25

Industries
Salt-hospitality's token basis of convention city's industrial growth. Foundry 53:763-8, 670 O 1 '25

Water supply
Description of water supply of city of Syracuse, New York. M. B. Palmer. N E Water Works Assn J 38:226-31 S '24

SYRUPS. See Sirups

T

TABLES
Assembling tables for knocked down shipment. il Am Exporter 94:29+ Mr '24
Several types of French tables. C. Bill. il Arch Forum 42:127-8 F '25
Some English types of tables. il Arch Forum 42:63-4 Ja '25

TABLES, Computing. See subdivision Tables, calculations, etc. under special subjects, e.g. Building; Earthwork; Electric engineering; Heating; Hydraulics; Steam; Ventilation

TABLETS, Concrete. See Concrete tablets

TABULATING machines
New type of tabulating machine. il Engineer 137:274-6 Mr 14 '24
Punch cards for bills receivable. M. J. Howell. Ry Age 79:321-2 Ag 15 '25
Punched hole accounting. 171p International business machines corp., 50 Broad st., New York '24
Railroad accounting by use of perforated cards. il Ry R 76:980-5 My 30 '25
Statistical bureau of freight auditor's office; Chicago Milwaukee & St Paul Ry. L. R. Wolff. il Ry R 77:41-7 Jl 11 '25

See also Calculating machines

TACHOGRAPH
Hand tachograph and speed indicator. il Engineering 116:773 D 21 '23

TACHOMETERS
Simple electric tachometer. D. A. Hampson. diag Am Mach 61:700 O 30 '24
Speed indicating and recording. il Electrician 94:210 F 20 '25
Le tachéomètre, système Kourkène. il diags Génie Civil 85:154-7 Ag 16 '24

TACHYLITE
Compressibility of several artificial and natural glasses. P. W. Bridgman. Am J Sci 5th ser 10:359-67 O '25

TACKS
Tack sizes. Iron Tr R 77:970 O 15 '25

Manufacture
Large uses of steel in small ways. il Iron Tr R 74:1496+ Je 5 '24
Making plain and headless tacks. H. R. Simonds. il Iron Tr R 74:861-5 Mr 27 '24
Who invented the tack machine? W: O. Sheldon. Iron Tr R 74:1694-5 Je 26 '24

TACOMA, Washington

Harbor
Ports of Seattle, Tacoma, Bellingham, Everett, and Grays Harbor, Washington. 470p U.S. Engineer dept., Board of engineers for rivers and harbors, Washington '25

TACONY pile fabric
Special weave employed for new upholstering cloth. il Automotive Ind 53:753 O 29 '25

TAGS
Campaign built around a tag. L. R. Fleming. il Ptr Ink M 9:92 N '24

TAIL planes. See Airplane stability and stabilizers

TAILINGS
Building up tailings ponds. il Eng & Min J 119:568-9 Ap 4 '25
Six-cent copper from Calumet & Hecla tailings. C. H. Benedict. flow sheet il diags map Eng & Min J 117:277-84 F 16 '24
Tailings disposal at Old Dominion mill. il Eng & Min J 120:535 O 3 '25

TAILORING
American garment cutter. S: Regal. 4th ed. 320p American fashion co., New York '24
Mongelli scientific double balance system of designing. G. A. Mongelli. 3d ed 224p G. A. Mongelli, Philadelphia, '25
Science of grading patterns for men's and young men's clothing. H. Simons. 2d ed. 103p Clothing designer co., inc., N.Y. '24
Tailored garments. M. B. Picken. 369p Woman's inst. of domestic arts and sciences, Scranton, Pa. '25

TAILORS

Advertising
Tailor clothes his letters with homespun sincerity. F. M. Barber. Ptr Ink 132:111-12 Ag 6 '25

TALBOT, Guy Webster, 1873-
Portrait. Elec W 82:1204 D 15 '23

TALC
Advice for owners of talc deposits from a cosmetician. H: Tetlow. Eng & Min J 120: 253 Ag 15 '25
Canada's valuable talc resources. H. S. Spence. Chem Age (Lond) 10:573 My 31 '24
Substitutes for china clay. Paper 33:9 Mr 27 '24
Talc. Chemicals 24:9 O 5 '25
Talc and soapstone in 1924. Eng & Min J 120: 210 Ag 8 '25
Talc and soapstone production decreased in 1923. Eng & Min J 118:216 Ag 9 '24
Talc as the principal body ingredient in vitrified ceramic bodies. H. M. Kraner and S: J. McDowell. diags Am Cer Soc J 8:626-35 O '25
Talc production in 1924. R. B. Ladoo. Eng & Min J 119:96 Ja 17 '25
Use of Canadian talc in papermaking. W. C. Lodge. il Paper 33:22-5 Ja 31 '24

TALLY, Robert Emmet
Mine managers of note. por Eng & Min J 118: 964 D 20 '24

TAMPA, Florida

Bridges
Gandy viaduct across Tampa Bay, Florida. il Engineering 119:729-30, pl 47 Je 12 '25; Manuf Rec 86:76-7 N 13 '24; Eng & Contr (R & S) 64:7-8 Jl 1 '25
Long concrete bridge completed. E. E. Garrison. il Concrete 27:35-9 Ag '25

TAMPING machines
Car compressors supply pneumatic tampers. il Elec Ry J 66:96 Jl 18 '25

TAMPING machines—*Continued*
Mechanical tamper on concrete streets at Bedford, Ohio. il diag Pub Works 55:357 N '24; Same. Good Roads 67:162 D '24
Methods of using mechanical tampers. Ry R 74:515-16 Mr 15 '24
Tamping and concrete breaking machine. il Engineer 137:236 F 29 '24

TANGANYIKA
See Copper mines and mining—Tanganyika; Mining industry and finance—Tanganyika

TANGIER, Morocco
L'adjudication des travaux de construction du port de Tanger (Maroc). diags plan Génie Civil 85:159 Ag 16 '24

TANK and steel plate fabricators association
National association forms to spread cooperation throughout this important industry. F. J. Crolius. Blast F & Steel Pl 13:127-8 Mr '25

TANK barges
Oil tank barges. R. W. Morrell. diags Marine Eng 30:212-15+ Ap '25

TANK cars
Acid car tests suggested by manufacturing chemists. Oil Paint & Drug Rep 108:62 O 19 '25
A.R.A. report of committee on tank cars. diags Ry Age 76:1675-80; Discussion. 1680-4 Je 18 '24; Excerpt (New type tank cars designated as class VI for the transportation of helium gas). Ry R 74:1175-7 Je 21 '24
A. R. A. report of committee on tank cars. Ry Age 78:1563-5 Je 20 '25; Ry Mech Eng 99: 434-6 Jl '25
Car board keeps tank cars on move; assures plant supply. J. C. Chatfield. il Nat Pet N 16:22-3 Ja 30 '24
Growing use of glass lined steel tank cars for hauling milk. G. F. Kroha. il Ry R 74:1149-50 Je 14 '24
Handling tank cars under rules of Bureau of explosives. Ry Mech Eng 98:289-91 My '24
Improved design of A.R.A. class IV tank car. il diags plans Ry R 76:729-33 Ap 18 '25
Improvements in tank car dome planned to reduce natural gasoline losses. J. C. Chatfield. il diag Nat Pet N 17:47-8 S 30 '25
Manufacturing chemists file tank car brief. Oil Paint & Drug Rep 108:21 Ag 24 '25
Multiple tankcar users fight rates. Oil Paint & Drug Rep 108:22 Ag 3 '25
Multiple unit tank car for the transportation of liquid chlorine. M. Mauran. il diags Am Inst Chem Eng Trans v 14:167-73; Discussion. 173-4 '21-'22
New tank cars for Canadian service. il diags Ry R 74:324-7 F 23 '24
Oil companies may save millions by empty car movement. Nat Pet N 16:75+ Mr 19 '24
Railroad issues gasoline from supply train tank car. L. B. Wood. il Ry Age 78:1036 Ap 25 '25
Representative examples of steel tank cars built in 1923. il Ry R 74:39-40 Ja 5 '24
Representative examples of steel tank cars built in 1924. il Ry R 76:61-2 Ja 3 '25
Reversible placard holders for railway tank cars. diags Ry Age 78:424 F 14 '25; Same. Ry Mech Eng 99:185 Mr '25
Safeguarding tank car shipments of light oils. R. W. Kelly. il diag Nat Safety N 11:29-30 Ap '25
Suggestions for handling asphalt shipments in tank cars. C. A. Talley. Good Roads 67:143-5 N '24; Same. Eng & Contr (R & S) 62: 1234-8 D 3 '24; Same. Can Eng 48:169-70 Ja 27 '25
Tank car for powdered fuel. il Power 62:571 O 13 '25
Tank cars for transportation of muriatic acid. J. M. Rowland. il Am Inst Chem Eng Trans v 14:135-42; Discussion. 143-4 '21-'22
Transportation of liquid chlorine in fifteen-ton tank cars. J. L. K. Snyder and H. P. Wells. il diags Am Inst Chem Eng Trans v 14:145-65 '21-'22
Transportation of milk by motor truck in the Chicago dairy district. E. L. Browne. il maps Pub Roads 6:107-15 Jl '25; Same cond. Good Roads 68:211-15 S '25
Unit containers in freight transportation. il Ry R 76:557-62 Mr 21 '25
See also Tank trucks

Measurement
Checking tank car quantities in road work. H. J. Kirk. il Eng N 95:274-5 Ag 13 '25

TANK ships
American sugar refining company operates first molasses tanker. il plan Marine R 54: 131-3 Ap '24
Atlantic refining company converts 7,500-ton tanker J. W. Van Dyke to Diesel electric drive. il diag Marine Eng 30:379-84 Jl '25; Marine R 55:259-61 Jl '25
Bracketless system of shipbuilding for oil tankers. Marine R 55:439-40 N '25
Build Diesel-electric driven tanker. A. H. Jansson. il Marine R 54:168-74 My '24
Diesel-electric tanker added to Standard oil fleet. il plan Marine Eng 29:234-7 Ap '24
Economical speed for tankers. R. W. Morrell. Marine Eng 30:356-9 Je '25
Lake tankers sail on quick turn-around. E. C. Barringer. il Marine R 55:263-4 Jl '25
Large motor tankers under construction in Europe. il Marine Eng 29:583-4 O '24
Motor tanker British Aviator. Engineer 138: 586, 594-5 N 21 '24
New York shipbuilding corporation building large motor-driven tank ship for its own account. il plans Marine Eng 30:142-5 Mr '25
Oil marine transportation. J. O. Rohlfs. Am Pet Inst Bul 4:147-50 D 31 '23
Oil transport; the oil tank ship. H. Barringer. il diags Inst Pet Tech J 10:560-81; Discussion. 582-3 Jl '24
Propelling machinery for tankers; cargo pumps. R. W. Morrell. Marine Eng 30:403-7 Jl '25
Stability problem. diags Marine Eng 30:361-2 Je '25
Steamship conversion begins in Europe. il Marine Eng 30:273-4 My '25
Structural design and arrangement of tankers. R. W. Morrell. diags plan Marine Eng 30:459-64, 518-26, 563-9, 646-51 Ag-N '25
Tanker requirements. R. W. Morrell. Marine Eng 30:281-6 My '25
Twin screw Diesel tanker is efficient. il Marine R 55:326 S '25
Twin-screw motor tanker Arnus. il diags Engineer 136:485-7 N 2 '23

Cleaning
Cleaning of tankers. H. Barringer. Inst Pet Tech J 10:810-11 N '24

TANK trucks
Fire and shock proof gas tank. Automotive Ind 53:444 S 17 '25
Fire protection body to study tank truck equipping and handling. Nat Pet N 17:85-6 F 4 '25
Inflammable liquids committee discusses fire protection regulations. W. C. Platt. Nat Pet N 17:102 Mr 25 '25
New York city tank truck regulations forbid gravity unloading. Nat Pet N 17:27-8 Ap 8 '25
Oil companies give some truck fire causes. Nat Pet N 17:88 My 27 '25
Running a one-man tank station no job for a cripple. W. K. Halbert. il Nat Pet N 16:24-6 Jl 9 '24
Selling oil from the seat of a truck. W. K. Halbert. il Nat Pet N 16:53+ Ap 30 '24
Taking the fuel to the bus. il Bus Transportation 3:57-8 F '24
Tentative truck tank specifications. W. C. Platt. Nat Pet N 17:29-30 F 18 '25
Transportation of milk by motor truck in the Chicago dairy district. E. L. Browne. il maps Pub Roads 6:107-15 Jl '25; Same cond. Good Roads 68:211-15 S '25
Truck tank real sign board. A. Nicholaus. il Pet Age 16:41 Ag 1 '25

TANKS
Cast-iron storage tanks. diags Chem & Met Eng 31:312 Ag 25 '24
Lining tank with pure sheet tin. W: Neubecker. diags Sheet Metal Worker 16:401-3 Jl 3 '25
Permanent tank material; Lavasul. il Chem & Met Eng 30:157-8 Ja 28 '24
Reduction in tank sizes. Sanitary & Heat Eng 101:364 My 30 '24; Excerpt. Iron Age 113: 1584 My 29 '24
Stresses in flat plates. Locomotive 35:233-5 O '25

See also Acid tanks; Gas holders; Imhoff tanks; Oil tanks; Pickling tanks; Septic tanks; Sewage tanks; Standpipes; Surge tanks; Tank cars; Tank ships; Tank trucks; Water tanks

Failures

Autogenously welded tank failures. il diag Locomotive 35:142-4 Ja '25

See also Molasses tank explosions

Manufacture

Tank head seamer. W. Scholl. diags Sheet Metal Worker 15:609-10 Ag 29 '24

Measurement

Capacity of double bottom tank. Marine Eng 30:417 Jl '25
Capacity of storage tanks. Brick & Clay Rec 64:741 My 13 '24
Capacity of tanks. diags Power 62:110 Jl 21 '25
Computing contents of horizontal, cylindrical tanks. A. M. Shaw. Eng N 93:800-1 N 13 '24
Flüssigkeitsbehälter von geringstem baustoffaufwand. Stieglitz. Zeit Ver Deutsch Ing 69:71-3 Ja 17 '25
How to find the contents of horizontal storage tanks. J. B. Reynolds and S: Cottrell. diag Chem & Met Eng 31:665-7 O 27 '24
Quick and useful horizontal tank chart. W. F. Schaphorst. Heat & Ven 21:56-7 My '24; Same. Textile World 65:3173+ My 10 '24; Same. Ry Mech Eng 98:759-60 D '24; Same cond. Power Pl Eng 28:536 My 15 '24
Range boilers. R. M. Starbuck. diags plan Dom Eng 107:24-6+ My 17 '24
Rules for finding contents of partly filled tanks. J. C. Hornung. Heat & Ven 21:64 D '24

Painting

Tank painting. R. C. Sheeler. Ind Management 68:231-2 O '24; Same. Gas Age 54:892-3 D 27 '24

TANKS, Concrete
Concrete oil tanks reinforced with outside bands. W. Travell. il Eng N 93:422-4 S 11 '24

See also Bins, Concrete; Septic tanks, Concrete; Water tanks, Concrete

TANKS, Steel
Automatic arc welding in tank construction. W. L. Warner. diags Am Mach 63:643-5, 689-92 O 22-29 '25
Elevated tank construction. G: T. Horton. il diags Munic & Co Eng 68:262-9 My '25
Pressure vessels—fired and unfired. il Nat Safety N 11:35-43 My '25
Spherical steel tank is novel structure. il Eng N 91:988 D 13 '23
Spherical tank built for oil storage. W: C. McClure. il Iron Age 112:1388-9 N 22 '23
Storage tanks for oils, acids and dry materials. il Nat Safety N 10:41-8 N '24

See also Gas holders; Water tanks, Steel

Testing

Stresses in a few welded and riveted tanks tested under hydrostatic pressure. A. H. Stang and T. W. Greene. il diags U S Bur Stand Tech Pa 243:645-66 '23; Abstract. Am Mach 59:846 D 6 '23

TANNERIES

See also Tanning

Equipment

Electric tractor saves $3,442.70. C. B. Adams. il Elec W 86:521 S 12 '25
Hydrogen electrode vessels for use with tannery liquors. J. A. Wilson and E. J. Kern. Ind & Eng Chem 17:74 Ja '25

Power

New boiler plant saves tannery $10,000 a year. il Power 62:274-6 Ag 25 '25

Safety devices and measures

How they won the contest and pocketed the $400. O. F. W. Cromwell. Nat Safety N 9:47 Je '24

TANNING
Applied research pays dividends in leather manufacture. A. G. Wikoff. il Chem & Met Eng 30:896-901 Je 9 '24
Bacteria in tannery soak waters. J. A. Wilson and C. J. Vollmar. Ind & Eng Chem 16:367-9 Ap '24
Comparative durability of chrome and vegetable tanned sole leathers. R. C. Bowker and M. N. V. Geib. il U S Bur Stand Tech Pa 286:267-86 '25
Epilation of skins. H. C. Ross. Soc Chem Ind J (Chem & Ind) 43:55-9 Ja 18 '24
Fixation of constituents of chrome liquors by hide substance from highly concentrated chrome solutions. K. H. Gustavson. Ind & Eng Chem 17:823-6 Ag '25
Forty-two occupational disease hazards in one industry. D. K. Minster. J Ind Hygiene 7: 299-304 Jl '25; Abstract. Monthly Labor R 21:596-7 S '25
Hydrated lime in the tannery. Chem Age (Lond) 13:329 S 26 '25
Leather industry needs stimulant. Chem & Met Eng 32:113 Ja 19 '25
Quinone tannage. A. W. Thomas and M. W. Kelly. Ind & Eng Chem 16:925-6 S '24
Reactions between chrome liquors and hide substance. K. H. Gustavson and P. J. Widen. bibliog Ind & Eng Chem 17:577-83 Je '25
Some problems of chrome tanning. Chemicals (Dyestuffs sec) 17:62-4 S 14 '25
Tannic acid tannage. A. W. Thomas and M. W. Kelly. Ind & Eng Chem 16:800-2 Ag '24
Tanning industry in Canada. B. Monsaroff. Can Chem & Met 9:115-16 My '25
Tanning with the aid of electricity. R. Ditmar. Chem & Met Eng 31:856 D 1 '24
Treatment of industrial wastes. H. P. Eddy. Eng & Contr (W W) 60:1261-2 D 12 '23
Vegetable tanning. A. W. Thomas and M. W. Kelly. Ind & Eng Chem 17:41-3 Ja '25
What happens when leather is tanned? Sci Am 131:44 Jl '24

See also Leather

TANNING materials
Acidity of vegetable tan liquors. E. J. Kern and J. W. Koenig. Ind & Eng Chem 16:261 Mr '24
Chemicals used in the tanning industry. Chem Age (Lond) 12:630 Je 27 '25
Chemistry and comfort; relation between the chemical composition of leather and the comfort of shoes made therefrom. J: A. Wilson and A. F. Gallun, jr. Ind & Eng Chem 16:268-9 Mr '24
Dye and tannin from the nance tree. C. D. Mell. Textile Col 47:110-11 F '25
Latin America as a source of tanning materials. O: Wilson. il Chem & Met Eng 30: 303-5 F 25 '24
Latin America's greatest contribution to the tanning industry; quebracho. O: Wilson. il Chem & Met Eng 30:344-6 Mr 3 '24
Manufacture of quebracho extract. R. O. Phillips. il Chem & Met Eng 32:611-14 Jl '25
Oak bark. T: H. Norton. Chemicals 24:9+ N 2 '25
Les spectres d'absorption des extraits tannants dans l'ultra-violet. A. de la Bruère. il diags Chimie & Ind 11:8-16 Ja '24
Tannin survey completed. Chem & Met Eng 30:146 Ja 28 '24
Tanning extract from sulphite lye. Paper 34: 476 Jl 3 '24
Tanning materials from foreign sources; are our buying standards right? C: C. Smoot. Oil Paint & Drug Rep 105:20+ My 19 '24

TANNING materials—*Continued*
Tanning materials of Latin America. O: Wilson. il Chem & Met Eng 30:398-9 Mr 10 '24
Tanning materials survey. U S Bur For & Dom Com Trade Information Bul 167:1-18 '24
Tanning materials survey; quebracho: the origin and growth of the industry and the significance of its control to the leather industry of the United States. H. M. Hoar. U S Bur For & Dom Com Trade Information Bul 295:1-32 '24
Torote wood as a source of tannin and dye. Textile Col 47:31 Ja '25

See also Catechol; Mangrove; Quebracho; Tannins

Analysis

Study of the A.L.C.A. official method for the determination of the acidity of a tan liquor. H. T. Beans and E. Little. Ind & Eng Chem 17:252-7 Mr '25
Use of cadmium half cell for the determination of the acidity of a tan liquor. H. T. Beans and E: Little. diags Ind & Eng Chem 17:413-14 Ap '25

Prices

Dyestuffs and tanstuffs. See weekly numbers of Oil paint and drug reporter

TANNINS
Apparently specific test for tannins; abstract. A. H. Ware. Soc Dyers & Col J 40:426-7 D '24
Differences in kind or degree of tannin fixation. A. W. Thomas and M. W. Kelly. Ind & Eng Chem 16:31-2 Ja '24
Dyeing of leather tanned with synthetic tannins. G: E. Knowles. Soc Dyers & Col J 41:308-11 S '25
Gallotannin; the action of yeast on gallotannin. M. Nierenstein, C. W. Spiers and A. C. Hadley. Am Chem Soc J 47:1726-8 Je '25
Gallotannin; the identity of digallic acid from gallotannin with synthetic meta-digallic acid. M. Nierenstein, C. W. Spiers and P. R. Hatcher. Am Chem Soc J 47:846-50 Mr '25
Impregnating cotton with tannin for logwood dyeing. W. R. McKennon. Textile Col 47:638-9, 703-4+ O-N '25
Influence of neutral salts upon the fixation of tannin by hide substance. A. W. Thomas and M. W. Kelly. Ind & Eng Chem 15:1262-3 D '23
Osmium tetroxide as a reagent for the estimation of tannins and their derivatives. C. A. Mitchell. Soc Dyers & Col J 40:193 Je '24
Tannin extraction; abstract. E. Knape. Soc Dyers & Col J 41:284 Ag '25
Thermolability of collagen. A. W. Thomas and M. W. Kelly. Am Chem Soc J 47:833-6 Mr '25

TANTALUM
Electron emission from tungsten, molybdenum and tantalum. S. Dushman and others. Phys R 25:338-60 Mr '25
Marketing tantalum ores and metal. D: Taylor. Eng & Min J 117:842-3 My 24 '24
Melting metal at 2900° C. (5252°F.) D. Wilcox. il diag Metal Ind 22:290-1 Jl '24
Production and uses of ductile tantalum. C. W. Balke. Am Inst Chem Eng Trans v 14: 293-301; Discussion. 301-4 '21-'22
Uses of tantalum. Eng & Min J 120:502 S 26 '25
Uses, properties, and occurrence of tantalum. Eng & Min J 116:816 N 10 '23

TAPE, Insulating. See Insulating tape

TAPERS
Demonstrating the path of a cutting tool when turning a taper. G: C. Smith. il diags Am Mach 60:706 My 8 '24
Table of drill sizes for taper pins; reference-book sheet. Am Mach 63:635 O 15 '25
Turret taper-turning attachment. F. W. Curtis. diag Am Mach 62:475 Mr 19 '25

Testing

Gage for testing taper pins. il Am Mach 61: 665; 62:665 O 23 '24, Ap 23 '25
Taper testing machine. il diags Ry Mech Eng 98:762 D '24

TAPESTRY
Gobelin tapestry to be presented to the city of Philadelphia by the French government. il Am Arch 125:486 My 21 '24
Romances of industry—tapestries. B. Davis. il Am Ind 25:15-17 D '24
Tapestries of the Lowlands. H. Göbel. 97p Brentano's '24
Tapestry illustrations of sixteenth century domestic architecture. P. Ackerman. il Arch Rec 56:186-9 Ag '24

TAPIOCA

Advertising

When yesterday's advertising blocks today's sales. Ptr Ink 130:36 Ja 22 '25

TAPPING
Best shop practices in cutting and tapping machine threads for repair work. G. H. Radebaugh. il diags Coal Age 25:279-82 F 21 '24

TAPPING machines
Anderson tapping machine. il Am Mach 63: 74 Jl 9 '25
Bench no. 2 tapping machine. il Automotive Ind 53:23 Jl 2 '25
Fox four-way, multiple-spindle tapping machine. il Am Mach 62:713 Ap 30 '25; Iron Age 115:1496 My 21 '25
Fox special drilling and tapping machines. il Am Mach 60:490 Mr 27 '24
Garvin automatic tapping machine. il Iron Age 113:1580 My 29 '24
Greenlee drilling and tapping machines. il Mach 30:808-10 Je '24
Johnson multiple drilling and tapping machine. il Am Mach 61:24-5 Jl 3 '24
Luehrs semi-automatic drilling and tapping machine. il Am Mach 63:77-8 Jl 9 '25
Morris radial drill provided with a tapping attachment. il Ry Mech Eng 99:384-5 Je '25
Pottstown 6-in. globe valve reaming and tapping machine. il Am Mach 60:564 Ap 10 '24

Standards

Tap-drill reference tables. Soc Auto Eng J 14:578-80; 16:42-3 Je '24, Ja '25; Discussion. 16:159 F '25

TAPS
A. S. S. T. recommended practice for the heat-treatment of taps and milling cutters. Am Mach 63:194 Jl 30 '25; Mach 31:996-7 Ag '25
Design of a special tap for automatic feed. A. L. Green. il Am Mach 62:762 My 14 '25
Making a metric tap. L. C. Blomstrom. diags Mach 31:392-3 Ja '25
Mechanisms for preventing tap breakage. A. Pestel. diags Mach 30:424-6 F '24
Preventing tap breakage. A. Pestel. Mach 30: 540 Mr '24

Inspection

Two methods of inspecting taps. B. S. Havens. il Am Mach 62:894-5 Je 4 '25

Standards

Proposed tolerances for ground thread taps. C. M. Pond. Am Mach 61:25 Jl 3 '24; Discussion. H. C. Hungerford. 61:658 O 23 '24
Standardizing tolerances for taps. W. Daley. Am Mach 60:217-19 F 7 '24; Discussion. 60: 593-4, 703 Ap 17, My 8 '24
Taps with ground threads; S.A.E. & U.S. standards. Mach 31:436a F '25
Tolerances for ground thread taps; U.S. and S.E.A. standard. Mach 30:721 My '24
Tolerances for hand taps; data sheets. Mach 31:362a Ja '25

TAR
Alkali works chief inspector's report. Gas J (Lond) 171:47-8 Jl 1 '25
Le cancer par le goudron en France. P. Courmont. bibliog Chimie & Ind 12:379-80 Ag '24
Cancer-producing tars and tar-fractions. E. L. Kennaway. J Ind Hygiene 5:462-86; Bibliography. 486-8 Ap '24

TAR—*Continued*
Cascade system of tar distillation. Chem Age (Lond) 12:31 Ja 10 '25
Chinch bug meets Waterloo in gas company tar. C. Lambert. il Gas Age 56:109 Jl 25 '25
Consistency of road tars. D. C. Broome. Soc Chem Ind J 42:192-4; 43:25-7 My 4 '23, F 8 '24
Electrical precipitation of tar. C: E. Morris. diag Gas Age 54:353-4 S 13 '24
Elimination of soluble tar from sulfonation masses. J. A. Ambler and D. F. J. Lynch. Ind & Eng Chem 17:61-2 Ja '25
Examination of the dissolved tar from the carbonization of hard maple. L. F. Hawley and H. N. Calderwood, jr. Ind & Eng Chem 17:149-51 F '25
Extraction du goudron primaire et des huiles brutes, à partir des charbons gras, lignites, etc., par carbonisation à basse température. C: Berthelot. il diags Génie Civil 85:209-13, 230-3, 251-4 S 6-20 '24
Neue gaserzeugeranlage mit tieftemperaturteer-gewinnung. F. Kaiser. diags Zeit Ver Deutsch Ing 69:1357-8 O 24 '25
Other waste emulsions incidental to manufactured gas production. G. A. Simmons. diag Am Gas Assn Technical sec v 6:1431-3 '24; Same. Gas Age 54:859+ D 20 '24; Discussion. Am Gas Assn Technical sec v 6: 1433-8 '24
Our water gas tar used as timber preservative. H. L. Olin and E. B. Crone. Gas Age 54:765-6+ N 29 '24
Précipitation des phénols des goudrons au moyen des acides. F. Schulz and J. Prunet. Chimie & Ind 13:383-4 Mr '25
Protection of concrete against alkali; water-gas and coal tars and paraffin treatments. E. C. E. Lord. Pub Roads 5:23-5 My '24
Removing tar from hydraulic main. diag Am Gas J 120:390 Ap 26 '24
Report of the committee on waste disposal from gas plants. Am Gas Assn Technical sec v 5:1239-43 '23
River pollution; the tar and bitumen question. Gas J (Lond) 170:366 My 6 '25
Slow gelation in pressure-still tar. S. E. Sheppard and L. W. Eberlin. il Ind & Eng Chem 16:832-3 Ag '24
Some notes on the dehydration of water gas tar emulsion. L. J. Willien. diags Gas Age 52:581-3 N 10 '23
Some relations between the characteristics of straight distilled tar residues. J. W. Kennedy. Am Soc T M Pro 23 pt 2:341-50 '23
Tar dehydration plant at Glastonbury; with costs table. D. E. Garlick. Gas J (Lond) 166:102 Ap 9 '24
Tar distillation; crude derivatives and uses. J. H. Readio. diags Gas Age 53:213-18+, 251-4+ F 23-Mr 1 '24; Abstract. Am Gas J 120:391-2+ Ap 26 '24
Water gas tar filtration system at Malden, Mass. R. S. Carter. il Am Gas Assn Technical sec v 6:1427-31 '24; Same. Gas Age 54: 731-2 N 22 '24; Discussion. Am Gas Assn Technical sec v 6:1433-8 '24
Water solubility of various wood tars. H. N. Calderwood, jr. Ind & Eng Chem 17: 455 My '25

See also Coal tar; Coal-tar products; Roads, Tarred

TAR distillation plants
Tar distillation by the T.I.C. process. C. O. Condrup. diag Gas J (Lond) 169:337-8 F 11 '25; Abstract. Chem Age (Lond) 12:130; Discussion. 130-1 F 7 '25
Tar distillation; crude derivatives and uses. J. H. Readio. diags Gas Age 53:213-18+, 251-4+ F 23-Mr 1 '24

TAR-MACADAM mixers
Portable tar-macadam drying and mixing plant. il diags Engineering 116:620-1 N 16 '23
Tar macadam plant with scroll drier and cube mixer. il diags plan Engineering 117:700-2 My 30 '24

TAR oils
Extraction of phenols from tar oils by the caustic soda process. J. J. Morgan and M. H. Meighan. bibliog Ind & Eng Chem 17: 696-700 Jl '25
Formula weights of low-temperature phenols. J. J. Morgan and M. H. Meighan. bibliog Ind & Eng Chem 17:854-6 Ag '25
Improved methods for determination of phenols in tar oils. J. J. Morgan and M. H. Meighan. bibliog diag Ind & Eng Chem 17: 626-8 Je '25

TARDINESS (employees)
Absenteeism and tardiness. B. J. Mullaney and P. W. Herring. N E L A Bul 10:726-7 D '23
How can we get work to start with the whistle? Factory 35:547-9+ O '25
Man who won't keep time. E. N. Simons. Cassier's Ind Management 12:260-1 Ap '25
Punctuality as an efficiency test. R. B. Hobson. Cassier's Ind Management 12:477-8 O '25

TARIFF
British goods and foreign tariffs. Economist 101:256 Ag 15 '25
Customs duties in England and abroad. Economist 101:369-70 S 5 '25
Customs duties on American motor vehicles in eighteen foreign countries. Automotive Ind 52:592 Mr 26 '25
Duties on textiles in various countries. Textile Inst J 15:P474-9 S '24
Export taxes on raw materials. W: S. Culbertson. Ann Am Acad 112:26-38 Mr '24
Foreign import duties on wheat, wheat flour, meat and meat products. F. W. Fetter and H: Chalmers. U S Bur For & Dom Com Trade Information Bul 233:1-37 '24
Geneva customs convention. World's Markets 15:13-15 Mr '24
Preferential import and export duties on raw materials and preferential prohibitions and embargoes. W: S. Culbertson. Ann Am Acad 112:44-58 Mr '24
Preferential tariffs and the open door. B: B. Wallace. Ann Am Acad 112:211-21 Mr '24
Simpler customs formalities. World's Markets 14:16 Ja '24

See also Commerce; Free trade and protection; Octroi

Dictionaries
Dictionary of tariff information, 1036p U.S. Tariff commission, Washington, D.C. '24

Austria
Der neue österreichische zolltarif. E. Honigmann. Elektrotech Zeit 46:346-50 Mr 5 '25
State of Austria. Economist 100:128-9 Ja 24 '25

Canada
Another preferential adventure. Economist 100:646-7 Ap 4 '25
Canada cuts tariff on machinery. Am Mach 60:678a My 1 '24
New Caribbean trade agreement for improved steamship service between Canada and the various British colonies about the Caribbean. Am Ind 26:37 Ag '25
Origin and results of Canada's preferential tariff. A. Shortt. Ann Am Acad 112:221-31 Mr '24
Problems of Canada; the myth of the map. Economist 99:1006-7 D 20 '24
Tariff reductions have disastrous effects on Canadian industries. F. Sanderson. Iron Age 115:347-9 Ja 29 '25

China
Chinese tariff conference. Economist 101: 651-2, 695-6 O 24-31 '25

Cuba
Cuba's proposed new tariff bill. Am Ind 25:37 Mr '25

Europe
European tariff policies since the war. H: Chalmers. U S Bur For & Dom Com Trade Information Bul 228:1-18 '24
Recent indications of a tendency towards more moderate tariff policies in Western and Central Europe. H: Chalmers. Econ W n s 27:262-3 F 23 '24

TARIFF—*Continued*

France

Le réajustement de notre tarif douanier. M. Lambert. Chimie & Ind 13:157-8 Ja '25

Germany

New customs tariff. Economist 100:1024-6, 1077 My 23-30 '25
New German tariff affects U.S. motors. Automotive Ind 53:79, 117 Jl 9-16 '25
New German tariff law. Comm & Fin Chr 121: 1172-3 S 5 '25
Verboten for American exports. R. C. Long. il Nation's Business 12:33-5 S '24
Zur neuen deutschen zollvorlage. G. Becker. Elektrotech Zeit 46:993-5 Jl 2 '25

Great Britain

Baldwin cautious on tariff protection. Annalist 25:317 Mr 2 '25
British House of commons adopts McKenna duties on automobiles, silk, etc. Comm & Fin Chr 120:2492 My 16 '25
British silk and rayon duties. W: Whittam. Am Ind 26:41-3 Ag '25
Fiscal blunder; restoring the so-called McKenna duty. Economist 100:846-7 My 2 '25
Great Britain and protection; the position after the English election. J: Oakwood. Annalist 22:791 D 17 '23
McKenna duties won't depress our exports to England. Ptr Ink 132:25-6+ Jl 23 '25
Proposed protection for gas mantles. Chem Age (Lond) 12:501, 529, 581-2 My 23-30, Je 13 '25
Proposed protective duty on superphosphate. Chem Age (Lond) 12:499-500 My 23 '25
Safeguarding efficient industries. Economist 99:949-50 D 13 '24
Safeguarding industries. Engineering 119:249-50 F 27 '25

India

India's adventure in protection on steel. Iron Age 114:289-90 Jl 31 '24
New Indian tariff. Iron Age 114:1051 O 23 '24
Protection for Indian chemicals. Chem Age (Lond) 10:66 Ja 19 '24
True basis of protection for India. P. A. Wadia. Econ J 34:193-9 Je '24

Ireland

Reports of the Fiscal inquiry committee; Irish Free State. R. N. Tweedy. Elec R (Lond) 94:170-1 F 1 '24

Spain

Revising the Spanish tariff. Am Ind 25:46-7 Je '25

Switzerland

New Swiss tariff is approved. Automotive Ind 52:623 Ap 2 '25

United States

Agricultural conference; proposals for establishing a self-contained industry with the aid of tariff and rail rate readjustments. Index p 13-14 F '25
American farmer and the tariff. C: H. Holman. Ann Am Acad 117:166-76 Ja '25
Changing tariff duties. Index p 7 Mr '24
Congress, Coolidge and the farmer. J. E. Boyle. Comm & Fin 14:11-12 Ja 7 '25
Diplomatic status for treasury agents may solve foreign objection to probes. Oil Paint & Drug Rep 107:21 Ap 20 '25
Effect of existing tariff on imports. Index p 14 Ap '24
Elastic tariff begins to stretch. R. A. Lewis, jr. il Am Bankers Assn J 16:623-6 Ap '24
Flexible tariff here to stay. Am Ind 25:13 Mr '25
Flexible tariff plan not operating. L. W. Moffett. Iron Age 114:695-7 S 18 '24
Imports rose with the tariff. Am Ind 24:47 F '24
Levying discriminatory duties. C: C. Thach. Am Ind 25:20-3 N '24
Making the tariff in the United States. T: W. Page. 281p McGraw-Hill '24
New American commercial policy as evidenced by section 317 of the Tariff act of 1922. W. McClure. (Columbia univ. Studies in history, economics and public law) 397p Longmans '24
Oh, what a time with the customers! E: L. Bacher. Nation's Business 12:65+ F '24
Raw materials and the tariff duties imposed by the United States. W: S. Culbertson. Ann Am Acad 112:21-6 Mr '24
Review of two years' practical experience with the American valuation plan. F. J. H. Kracke. Am Dyestuff Rep 13:846-7 D 29 '24
Seek increase in infants hosiery tariff. Textile World 65:359-60 Ja 19 '24
Some danger signals for American industries. C: H. Herty. Manuf Rec 88:57-9 O 29 '25
Some recent changes in American commercial policy. Economist 100:1124-5 Je 6 '25
Tariff and American pocketbooks. S. W. Cramer. Textile World 65:3607+ My 31 '24
Tariff and its relation to the farmer. Manuf Rec 86:63-5 O 9 '24
Tariff commission. Index p 11-12 Jl '25
Tariff commission petitioned to protect advertised products. Ptr Ink 126:10+ F 14 '24
Tariff commission reports on probes. Oil Paint & Drug Rep 105:22 Je 16 '24
Tariff in an unbalanced world. B: M. Anderson, jr. Chase Econ Bul 3:1-16 '23; Excerpt. Comm & Fin Chr 117:2401 D 1 '23
Tariff on minerals; how a tariff measure is arrived at. A. C. Morrison. Min Cong J 10: 550-2 D '24
Turning German paper into gold; present European relation to American industry. A. C. Morrison. Am Ind 24:11-15 F '24
Will our manufacturers demand free trade? J: F. Fennelly. Comm & Fin 14:1493-5 Ag 5 '25
World afraid of production. B: M. Anderson, jr. Chase Econ Bul 5:21-7 Ag 24 '25; Same. Eng & Min J 120:510-11 S 26 '25; Same. Comm & Fin Chr 121:1179-80 S 5 '25; Abstract. Bradstreet's 53:561 Ag 29 '25

See also Free trade and protection—Protection

Chemical schedule

Barbital duty is based on American valuation. Oil Paint & Drug Rep 106:19 N 17 '24
Case of cresylic acid; a tariff anomaly. T. H. Davis. Chem & Met Eng 30:505-7 Mr 31 '24
Flexible tariff and the chemical industries. C. R. DeLong. Chem & Met Eng 30:99-100 Ja 21 '24
Methanol producers and refiners appeal for protection against synthetic product. Oil Paint & Drug Rep 107:21+ My 18 '25
Oxalic acid duty is raised to 6c. a pound. Oil Paint & Drug Rep 107:43 Ja 5 '25
Presidential proclamation increasing duty on potassium chlorate from 1½ to 2¼ cents a pound. Comm & Fin Chr 120:1965 Ap 18 '25
Sodium nitrate tariff proposal raises questions of definition and construction. Oil Paint & Drug Rep 106:19 Ag 18 '24
Suit against Tariff commission as result of hearing on sodium nitrite. Chem & Met Eng 29:1111 D 17 '23
Tariff in chemical industry. T: O. Marvin. Chem & Met Eng 32:95-6 Ja 19 '25

Copper

Proposed tariff on copper. Eng & Min J 117: 275, 493-4 F 16, Mr 22 '24
Should there be a tariff on copper. R. M. Haig. Eng & Min J 117:964-5 Je 14 '24
Some reflections on the American copper industry and the proposed tariff. G. M. Colvocoresses. Eng & Min J 118:19-21 Jl 5 '24
Tariff on copper. E. G. Wentworth. Eng & Min J 117:694 Ap 26 '24
Will a tariff on copper help or injure the United States? F. W. Paine. Eng & Min J 117:796-9 My 17 '24

TARIFF—United States—*Continued*

Cotton

Address of President Coolidge before National cotton manufacturers' association. Comm & Fin Chr 120:1836-8 Ap 11 '25
Economic illiteracy and the tariff. E: A. Bradford. Annalist 23:556+ My 12 '24
Report of N.A.C.M. committee on tariff and taxation. Textile World 68:2341+ O 17 '25

Dyes

American valuation on trial in dye case. Textile World 65:3791-2+ Je 7 '24
Dye tariff valuations on basis of strength attacked in customs court. Oil Paint & Drug Rep 105:19+ My 26 '24

Metal schedule

Congress will scrutinize manganese tariff. Eng & Min J 119:501 Mr 21 '25
Quicksilver tariff. Eng & Min J 118:701-2 N 1 '24
Tariff on magnesite. Iron Age 112:1590 D 13 '23

Oils and fats

Linseed oil tariff report has been submitted to President by commission. Oil Paint & Drug Rep 107:19 Mr 9 '25
Linseed-soya oil held dutiable at 3.3 cents. Oil Paint & Drug Rep 107:21 Je 22 '25
Olive oil sophistry alleged. H: H. Glassie. Oil Paint & Drug Rep 108:21 O 5 '25
Vegetable oil duties attacked by consumers. Oil Paint & Drug Rep 105:19 F 25 '24
Vegetable oil tariff investigation has been ordered by the President. Oil Paint & Drug Rep 105:19 F 11 '24
Vegetable oils tariff reduction vigorously opposed at hearing. Oil Paint & Drug Rep 105:20+ Mr 17 '24

Paper

Grade not size determines duty. Paper 35: 408-9 D 25 '24
Wrapping dutiable as imitation parchment. Paper Tr J 79:34 Ag 7 '24

Silk, Artificial

Tariff commission's rayon report. Textile World 67:3408-9 My 23 '25

Sugar

President Coolidge decides against recommendations of tariff commission to reduce tariff on sugar. Comm & Fin Chr 120:3142-3 Je 20 '25
Study of the tariff. R. Dykers. Manuf Rec 86: 73-5 Ag 14 '24
Sugar in relation to the tariff. P. G. Wright. 312p McGraw-Hill '24
Sugar under the flexible tariff. P. G. Wright. Am Bankers Assn J 16:488+ F '24
Who would benefit by a reduction in the sugar tariff? H. A. Austin. Manuf Rec 86:91-2 S 4 '24

Textile schedule

Tariff and legislation reports. J: J. Phoenix. Textile World 66:1538 S 20 '24

Wheat

Investigation by United States Tariff commission of wheat duties and production costs. Comm & Fin Chr 117:2396 D 1 '23
Proclamation by President Coolidge increasing duty on wheat from 30 to 42 cents bushel. Comm & Fin Chr 118:1216-18 Mr 15 '24
Tariff hurts United States. Am Ind 25:30 D '24

Wool

Administration of clean content wool duty. W: H. Butler. Textile World 67:982 F 7 '25
Importers win combing wool case. Textile World 64:3129-30 N '23

TARNISHING of metals

Relation between tarnishing and corrosion. U. R. Evans. il Am Electrochem Soc Trans v 46 (preprint 6):75-100 O '24
Stainless age in metals. R. Ainger. Can Chem & Met 8:227-8 S '24
Tarnishing and detarnishing of silver. G. W. Vinal and G. N. Schramm. il diag Metal Ind 22:15-17, 110-11, 151-2, 231-3 Ja, Mr-Ap, Je '24

See also Corrosion and anti-corrosives

TARPON SPRINGS, Florida

This whole industry is imported; sponge trade at Tarpon Springs. G. McKinstry. il Nation's Business 13:36+ Ag '25

TARRYTOWN, New York

Asylum of St Vincent de Paul

Chapel and dormitory of the asylum of St Vincent de Paul, Tarrytown, N.Y.; views and plans. Am Arch 127:pl 7-10 Ja 14 '25

TARTAR emetic

Potassium antimonyl tartrate. T: H. Norton. Chemicals 23:11 My 25 '25

TARTARIC acid

Chemical and material markets in 1923. Chem & Met Eng 30:115 Ja 21 '24
Hydrogen and oxygen electrode titrations of some dibasic acids and of dextrose. H. T: S. Britton. Chem Soc J 127:1896-1917 Ag '25
Increase in sales of imported tartaric acid, 1924. Chem & Met Eng 32:140 Ja 19 '25
Oxidation of fumaric and of maleic acid to tartaric acid. N: A. Milas and E. M. Terry. Am Chem Soc J 47:1412-18 My '25
Rotatory dispersion of derivatives of tartaric acid; acetyl derivatives. P. C. Austin and J. R. Park. Chem Soc J 127:1926-34 S '25
Rotatory dispersion of derivatives of tartaric acid; methylene derivatives. P. C. Austin and V: A. Carpenter. Chem Soc J 125:1939-46 S '24
Rotatory dispersive power of organic compounds; the molecular weight of ethyl tartrate and the origin of anomalous rotatory dispersion in tartaric acid and its derivatives. T: M. Lowry and J: O. Cutter. Chem Soc J 125:1465-70 Jl '24

See also Methyltartaric acid

TARTRATES

Estimation of tartrates. Soc Dyers & Col J 40:260 Ag '24
Qualitative test to show the absence of citrate or tartrate in mixtures. J. B. Peterson. Ind & Eng Chem 17:1146 N '25

TARVIA

City street maintenance with Tarvia. G: E. Martin. il Eng & Contr (R & S) 61:52-4 Ja 2 '24

TASMANIA

See Hydroelectric plants—Tasmania; Mines and mineral resources—Tasmania; Wages—Tasmania

TASTE

Alkylchloromalonamides; the influence of homology on taste. A. W. Dox and B. Houston. Am Chem Soc J 46:1278-81 My '24

TASTE (esthetics). See Esthetics

TAUTOMERISM

Chemistry of polycyclic structures in relation to their homocyclic unsaturated isomerides; orientation in the *gem*-dimethyl*dicyclo*pentene series. R. C: Grimwood, C. K. Ingold and J. F. Thorpe. Chem Soc J 123:3303-10 D '23
Chemistry of the glutaconic acids; three-carbon tautomerism in the *cyclo*propane series. F. R. Goss, C. K. Ingold and J. F. Thorpe. Chem Soc J 123:3342-59; 127:460-9 D '23, F '25
Chemistry of the glutaconic acids; three-carbon tautomerism in the *cyclo*propane series—refractometric evidence. F. R. Goss, C. K. Ingold and J. F. Thorpe. Chem Soc J 125:1927-30 S '24
Chemistry of the three-carbon system; a case of retarded mobility. G: A. R. Kon and R. P. Linstead. Chem Soc J 127:815-21 Ap '25; Abstract. Soc Chem Ind J (Chem & Ind) 44:168-9 F 13 '25
Chemistry of the three-carbon system; tautomeric nitriles and cyano-esters. S. F. Birch and G: A. R. Kon. Chem Soc J 123: 2440-8 O '23

TAUTOMERISM—*Continued*
Chemistry of the three-carbon system; the αβ-βγ change in unsaturated acids. G: A. R. Kon and R. P. Linstead. Chem Soc J 127:616-24 Mr '25; Abstract. Soc Chem Ind J (Chem & Ind) 44:80 Ja 23 '25
Correlation of additive reactions with tautomeric change; reversibility in relation to the stability of carbon chains. E. H. Ingold. Chem Soc J 125:435-8 F '24
Correlation of additive reactions with tautomeric change; the cyano-imino additive process. E. H. Ingold. Chem Soc J 125:1319-22 Je '24
Correlation of additive reactions with tautomeric change; the effect of polar conditions on reversibility. E. H. Ingold. Chem Soc J 127:469-75 F '25
Ring-chain tautomerism; derivatives of ββ-dimethyl-α-ethylglutaric acid. G: A. R. Kon, L. F: Smith and J. F. Thorpe. Chem Soc J 127:567-73 Mr '25
Ring-chain tautomerism; inhibited tautomerism. F. Dickens, L. Horton and J. F. Thorpe. Chem Soc J 125:1830-40 S '24
Ring-chain tautomerism; the αββ-trisubstituted glutaric acid type. K. C. Pandya and J. F. Thorpe. Chem Soc J 123:2852-65 N '23
Ring-chain tautomerism; the effect of the *cyclo*hexane nucleus on the carbon tetrahedral angle. E. W: Lanfear and J. F. Thorpe. Chem Soc J 123:2865-70 N '23
Ring-chain tautomerism; the fluoresceins and rhodamines. S. Dutt and J. F. Thorpe. Chem Soc J 125:2524-38 D '24
Ring-chain tautomerism; the mutarotation of the sugars. J: W: Baker, C. K. Ingold and J. F. Thorpe. Chem Soc J 125:268-91 Ja '24
Ring-chain tautomerism; the structure of Balbiano's acid. E. Rothstein, A. Stevenson and J. F. Thorpe. Chem Soc J 127:1072-80 My '25; Abstract. Soc Chem Ind J (Chem & Ind) 44:332 Mr 27 '25
Ring-chain tautomerism; three-carbon ring-chain tautomerism in a bridged ring system. J: W: Baker. Chem Soc J 127:985-90 My '25
Tautomerism depending on the mobility of a hydroxyl group; open-chain triad systems. M. D. Farrow and C. K. Ingold. Chem Soc J 125:2543-53 D '24
Tautomerism of amidines; abstract. F. L. Pyman. Chem Age (Lond) 10:384 Ap 12 '24
Tautomerism of amidines; methylation of glyoxalines by diazomethane—bromination of 4 (or 5)-phenylglyoxaline. W: G. Forsyth and F. L. Pyman. Chem Soc J 127: 573-81 Mr '25
Tautomerism of amidines; the alkylation of open-chain amidines. F. L. Pyman. Chem Soc J 123:367-70, 3359-75 F, D '23
Tautomerism of amidines; the methylation of 4(or 5)-nitroglyoxaline and 4(or 5)-phenylglyoxaline. C: E. Hazeldine, F. L. Pyman and J: Winchester. Chem Soc J 125:1431-41 Jl '24
Tautomerism of dyads; acetylene and its halogen derivatives. E. H. Ingold. Chem Soc J 125:1528-37 Jl '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:385 Ap 11 '24
Tautomerism of dyads; new evidence of the tautomeric mobility of oximes. J: P. Griffiths and C. K. Ingold. Chem Soc J 127: 1698-1708 Jl '25
Tautomerism of dyads; the effect of the triple linking on the reactivity of neighbouring atoms. E. H. Ingold. Chem Soc J 127:1199-1206 My '25
Tautomerism of ortho-hydroxy-triaryl carbinols which contain naphthyl groups. M. Gomberg and W. J. McGill. Am Chem Soc J 47:2392-2405 S '25
Tautomerism of the mesoxalic acid and pyruvic acid phenylhydrazones; evidence for the hydrazone structure of the tautomerides. H. R. Stevens and F. W. Ward. Chem Soc J 125:1324-9 Je '24
Tautomerism with respect to nitroso-phenols. H. H. Hodgson. Soc Dyers & Col J 40:167-74 Je '24

See also Isomerism

TAX-exempt securities. See Taxation, Exemption from

TAXATION
Comparative taxes and national income. Index p 7 Jl '25
Economics of taxation. H. G. Brown. 344p Holt '24
Effects of taxation; report to the British committee on national debt and taxation. J Account 38:438-41 D '24
Illustrated by the Ford industry. G. B. Winston. Am Bankers Assn J 17:603-4 Ap '25; Same. Econ W n s 29:593-4 Ap 25 '25
Post-war tax burden in the United States and the allied countries of Europe. Econ W n s 30:234 Ag 15 '25
Tax-reducing methods in factory operation. L. Childs. Factory 32:266+ F '24
Taxable capacity and the burden of taxation and public debt. G. F. Shirras. Roy Statis Soc J 88:513-44; Discussion. 545-56 Jl '25
Taxation and public expenditures in a democracy. W. F. Gephart. Bankers M 109:1061-6 D '24
Taxation and welfare. H. W. Peck. 269p Macmillan '25
Taxation; the people's business. A. W. Mellon. 227p Macmillan '24
Taxes in the United States and Great Britain increased 250% since 1913—in France 300%. Comm & Fin Chr 120:151 Ja 10 '25
Universality and diffusiveness of taxes. Comm & Fin Chr 118:246-8 Ja 19 '24

See also Assessment; Banks and banking—Taxation; Canvassers—Taxation; Capital—Taxation; Coal—Taxation; Coal mines and mining—Taxation; Corporations—Taxation; Gas, Natural—Taxation; Gasoline—Taxation; Gift tax; Income tax; Inheritance tax; Insurance, Fire—Taxation; Insurance, Life—Taxation; Insurance companies—Taxation; Mine taxation; Motor vehicles—Taxation; Municipal finance; Octroi; Public utilities—Taxation; Railroads—Taxation; Sales tax; Stock exchange—Taxation; Street railroads—Taxation; Tariff; Taxation, Exemption from; Taxation of bonds, etc; Taxation of gifts

Accounting
When does a tax accrue. E: McCarthy. J Account 37:268-74 Ap '24; Same. Paper Tr J 78:62-3 My 1 '24

International aspects
Double taxation. Index p 13-14 Jl '25
Double taxation and tax evasion. Economist 100:1061-2 My 30 '25
Double taxation and tax evasion. W. H. Coates. Roy Statis Soc J 88:403-27 My '25
League of nations report on double taxation submitted to the Financial committee by Professors Bruins, Einaudi, Seligman, and Sir Josiah Stamp. W. H. Coates. Roy Statis Soc J 87:99-102 Ja '24
Remedies for double taxation to be laid before the International chamber of commerce. E. G. Rich. Annalist 25:709+ My 25 '25
Where the League functions; report on double taxation and evasion of taxation. J Account 39:319-25 Ap '25

Argentina
Fiscal system of Argentina and its problems. J. M. Ahumada. Econ W n s 27:413-15 Mr 22 '24

Australia
Some problems of taxation in Australia. D. B. Copland. Econ J 34:387-97 S '24

Austria
Taxation of land in Austria. J: V. Van Sickle. J Land & Pub Util Econ 1:215-25 Ap '25

Belgium
Taxation in Belgium. E. V. D. Wight, jr. and A. J. Wolfe. U S Bur For & Dom Com Trade Information Bul 249:1-23 '24

TAXATION—*Continued*

California

Community property in California. L. H. Roseberry. Am Bankers Assn J 18:83-4 Ag '25

Canada

Equitable taxation for highway purposes, and our transportation problems. S. L. Squire. Can Eng 49:419-23; Discussion. 423-7 S 29 '25

Prevention of multiple taxation under the Succession duty acts of the provinces of Canada. R. P. Jellett. Econ W n s 29:341-2 Mr 7 '25

Taxation and production in Canada. Econ W n s 30:630-1 O 31 '25

See also Income tax—Canada

Cuba

Cuba's new money export tax. Econ W n s 30: 270-1 Ag 22 '25

Dutch East Indies

Taxation in the Netherlands East Indies. E. B. George. U S Bur For & Dom Com Trade Information Bul 282:1-13 '24

Florida

Florida's bid for capital. J. R. Anthony. Am Bankers Assn J 17:449 Ja '25

France

Dispositions de la loi de finances du 13 juillet 1925 intéressant plus particulièrement les sociétés; impôts sur les revenus. A. Lainé. Génie Civil 87:129-31 Ag 8 '25

France turns to tax reform. A. Comstock. Annalist 23:476+ Ap 21 '24

French taxes yield increasing revenue. Annalist 24:188 Ag 25 '24

Les impôts sur les revenus; nouveaux délais de déclaration impartis par la loi du 30 juin 1923. A. Lainé. Génie Civil 84:42-3 Ja 12 '24

Manuel encyclopédique des contributions indirectes et des octrois. L: Hourcade. 6th ed. 1275p P. Oudin, Poitiers '25

See also Octroi

Germany

German tax bill passes Reichstag—over 7,000,000,000 gold marks will be raised. Comm & Fin Chr 121:931-2 Ag 22 '25

Germany's 50 per cent tax burden. Comm & Fin 13:2274 N 26 '24

Die steuerreform. W. Asch. Elektrotech Zeit 46:454-8 Mr 26 '25

Taxation in Germany. R. E. Schoenfeld. U S Bur For & Dom Com Trade Information Bul 287:1-14 '24

Was bringt die neue steuerreform? M. Wellenstein. Stahl & Eisen 45:510-16 Ap 2 '25

Wie lange noch? M. Wellenstein. Stahl & Eisen 45:1306-10 Jl 30 '25

Great Britain

Burden of taxation. G. F. Shirras. Economist 100:1288 Je 27 '25; Same. Econ W n s 30:163 Ag 1 '25

Economic effects of post-war taxation in Great Britain. Econ W n s 28:307 Ag 30 '24; Same. Am Ind 25:39 S '24

General and local taxation in relation to engineering costs. Engineering 117:340-1 Mr 14 '24

The silken tangle. Economist 100:951-2 My 16 '25

Italy

Italian tax reforms. H. C. MacLean. U S Bur For & Dom Com Trade Information Bul 258: 1-23 '24

Japan

War and armament taxes of Japan. U. Kobayashi. 255p Oxford '23

Kansas

Trend of real estate taxation in Kansas, 1910-1923. E. Englund. charts J Land & Pub Util Econ 1:444-58 O '25

New York (city)

Two months of your rent for taxes. L: E. Pierson. Nation's Business 12:17 Ja '24

New York (state)

Governor Smith in special message to New York Legislature urges overhauling of present tax system to provide new sources of taxation. Comm & Fin Chr 118:1480-1 Mr 29 '24

Interpretation by E. S. Seidman of Court decision upholding constitutionality of moneyed capital tax law of New York. Comm & Fin Chr 119:407 Jl 26 '24

New York Supreme court upholds constitutionality of moneyed capital tax law—text of decision. Comm & Fin Chr 119:271-4 Jl 19 '24

Tax committee's fourth report. Comm & Fin Chr 117:2731-5 D 22 '23

See also Income tax—New York (state)

Pittsburgh

Ten years of the Pittsburgh tax plan. T: C. McMahon. Comm & Fin 13:482 Mr 5 '24

Russia

Tax collection in soviet Russia in the fiscal year 1923-1924. Econ W n s 29:487 Ap 4 '25

United States

American federal tax reports. 3v Prentice-Hall '24

Are we living off our children? Power Pl Eng 29:406-7, 715 Ap 1, Jl 1 '25

Conference report on tax revision bill. Comm & Fin Chr 118:2647-54 My 31 '24

Couzens investigating committee files evidence with Senate—charges that laxity in Treasury department has cost government millions of dollars in taxes; answer of Secretary Mellon. Comm & Fin Chr 120:1285-7 Mr 14 '25

Farmer's tax burden; he can do most to lighten it by checking waste in local expenditures. L. R. Gottlieb. Annalist 22:725+ D 3 '23

Federal internal revenue receipts during the nine months ended March 31, 1925. Econ W n s 29:667 My 9 '25

Federal tax reduction. J: Q. Tilson. Comm & Fin Chr 121:104-7 sec 2 O 17 '25; Same abr. Am Bankers Assn J 18:227-8+ O '25; Abstract. Bankers M 111:554-6 O '25

Federal taxation from the standpoint of its economic and social implications. A. W. Mellon. Econ W n s 28:197-9 Ag 9 '24

Federal taxes will be cut—but how? R. Smoot; J. Couzens; R. B. Smith. Nation's Business 13:13-15 O '25

Flaw in the Mellon tax bill; unjust retroactive burdens imposed on certain corporate reorganizations. I. Sack. Annalist 23: 238+ F 18 '24

Fundamental reforms needed in the American system of taxation. E. W. Kemmerer. Econ W n s 27:341-3 Mr 8 '24

Garner bill adopted by House as substitute for Mellon tax revision bill. Comm & Fin Chr 118:862-4 F 23 '24

Government stops to hear a classic on success. Ptr Ink 126:33-4+ Mr 6 24

Government's taxation policies false and narrowminded. N. M. Butler. Comm & Fin Chr 120:151 Ja 10 '25

Growing taxation menace. J. Dunn, jr. Bankers M 109:775+ O 31 '24

Heart of the tax problem. W: P. Helm, jr. Bankers M 110:449-58 Mr '25

How will Congress solve its latest dilemma? R. Bean. Annalist 22:764-5+ D 10 '23

Income and profits tax collections in 1923 19% lower than previous year. Comm & Fin Chr 117:2717-18 D 22 '23

Industry is stung by tax lash. J: W. Hill. chart Iron Tr R 77:181-4 Jl 23 '25

Internal revenue collections of the national government in 1923-1924. Econ W n s 28: 342-3 S 6 '24

It's spending not taxing that counts. C. C. Plehn. il Nation's Business 12:13-15 My '24

Local tax eats into business. J: W. Hill. Iron Tr R 77:367-9+ Ag 13 '25

TAXATION—United States—*Continued*
Longworth compromise tax bill. Comm & Fin Chr 118:959-60, 1094-6 Mr 1-8 '24
Lower taxes and better times. L: E. Pierson. Annalist 22:820+ D 24 '23
Mellon plan and its meaning. R. M. Haig. Am Mach 60:11-12 Ja 3 '24
Mellon plan key to prosperity. Am Ind 24: 15-16 F '24
Mellon tax revision bill ordered reported by House committee. Comm & Fin Chr 118:617-22 F 9 '24
Mellon's the most scientific tax law ever proposed. M. Rindler. Annalist 23:131-2+ Ja 21 '24
Message of President Coolidge to Congress urging immediate action on legislation for 25% reduction in 1923 tax returns. Comm & Fin Chr 118:1219-20 Mr 15 '24
Mr Mellon proposes, Congress disposes. J: F. Fennelly. Comm & Fin 14:2089 O 28 '25
Movement to effect reduction of $300,000,000 in federal taxation. Comm & Fin Chr 120: 3269-70 Je 27 '25
National association of real estate boards outlines legislative objectives for tax adjustment. Comm & Fin Chr 121:418 Jl 25 '25
National tax reform. E: A. Bradford. Annalist 25:286 F 23 '25
New revenue bill. Bradstreet's 52:349 My 31 '24
New revenue bill shows influence of Secretary Mellon. J. J. Klein. Annalist 23:629-30 Je 2 '24
Our company pays 23 kinds of taxes. J. Pfeiffer. il Nation's Business 13:15-17 Je '25
Our growing tax burdens. Bradstreet's 52: 605 S 20 '24; Econ W n s 28:415 S 20 '24
Plucking figures out of the air for Uncle Sam. R. A. Lewis, jr. Am Bankers Assn J 16:562-4 Mr '24
Properly devised taxation and the productive employment of capital. A. W. Mellon. Econ W n s 29:809-10 Je 6 '25
Public debt and taxation burdens. Min Cong J 10:65-6 F '24
Public improvement and tax rate. T. W. Barrally. Prof Eng 9:9-12 Je '24; Same. Munic & Co Eng 66:274-81 Je '24
Redraft of revenue act embodying tax revision proposals of Secretary Mellon. Comm & Fin Chr 117:2714-15 D 22 '23
Redraft of revenue act under consideration by House committee. Comm & Fin Chr 117: 2838-40; 118:33, 148-9, 388-91 D 29 '23-Ja 12, 26 '24
Reduce taxes—help business! G. B. Winston. Credit M 27:19+ Jl '25
Reduction in taxes proposed by Secretary. Mellon; abstracts. Comm & Fin Chr 117: 2170-2 N 17 '23; Annalist 22:659-60+ N 19 '23
Republican members of House ways and means committee decide to report to House tax rates proposed by Secretary Mellon. Comm & Fin Chr 118:512-13 F 2 '24
Secretary Mellon in annual report asks tax cut to aid prosperity; abstracts. Annalist 24:607 D 8 '24; Comm & Fin Chr 119:2595-6 D 6 '24
Secretary Mellon in annual report urges consideration by Congress of lowering of taxes. Comm & Fin Chr 117:2495-6 D 8 '23
Secretary Mellon on loss in revenue through Longworth compromise tax bill. Comm & Fin Chr 118:1220-1 Mr 15 '24
Secretary Mellon's review of Representative Garner's tax proposals; insurgent tax revision proposals as presented by Representative Frear. Comm & Fin Chr 118:391 Ja 26 '24
Significance of the growth of public expenditures in a democracy. W. F. Gephart. Econ W n s 28:438-40 S 27 '24
Taking the X out of taxation. E. Murphy. Nation's Business 13:60+ F '25
Tax burdens and exemptions. 159p National industrial conference board, New York '23
Tax burdens and public expenditures. 70p National industrial conference bd., inc., New York '25; Abstract. Comm & Fin Chr 120: 150 Ja 10 '25
Tax reduction bill reported to House. Comm & Fin Chr 118:739-41 F 16 '24
Tax reduction plans are gaining at the expense of the soldier bonus. R. Bean. Annalist 22:696+ N 26 '23
Tax reduction program proposed by Secretary of the treasury Mellon. Comm & Fin Chr 121:1991-3 O 24 '25
Tax reduction will benefit everybody. J: W. Prentiss. Comm & Fin 13:59 Ja 9 '24
Tax reform advocated by Secretary Mellon, Under secretary Winston and Senator Glass. Comm & Fin Chr 120:1549-50 Mr 28 '25
Tax refunds heavy. Annalist 24:218 S 1 '24
Tax-revision bill in the Senate. Comm & Fin Chr 118:1478-80, 1614-16, 1735-6, 1852-4, 1988-9, 2130, 2257-9, 2388-9, 2525-7 Mr 29-My 24 '24
Taxation. Index p 13-14 N '24
Taxation. E. Wadsworth. Am Ind 24:29-31 Je '24
Taxation; governmental decisions and difficulties. H: B. Fernald. Eng & Min J 117:130 Ja 19 '24
Taxation in the United States, 1921-1923. Econ W n s 29:55 Ja 10 '25
Taxation increases 755 millions in a year. Comm & Fin Chr 119:1804 O 18 '24
Taxation on the dissecting table. Comm & Fin 14:463-4 Mr 11 '25
Taxes, expenditures and indebtedness. Bradstreet's 52:829 D 27 '24
Tendencies and dangers in taxation. W. E. Creed. J Elec 53:162-4 S 1 '24
This back breaking tax burden. L: E. Pierson. Nation's Business 12:22-3 F '24
Total per capita burden of taxation in the United States. Econ W n s 28:163 Ag 2 '24
True importance of manufacture; what proportion of American taxes do the basic industries pay? N. Sargent. Am Ind 25: 38-40 Mr '25
United States Department of agriculture finds farm tax burden increased by local levies for wider use. Comm & Fin Chr 121:542 Ag 1 '25
Unsolved problem of government. W: E. Borah. Nation's Business 12:13-14 Ag '24
Vote for men who save you money. L: E. Pierson. Nation's Business 12:52+ Mr '24
Wealth and taxation. E. R. A. Seligman and P. T: Moon, eds. 148p Acad. of pol. sci., Columbia univ., New York '24
What industries are paying the most taxes? Nation's Business 13:90 My '25
What lower taxes will mean to business, bonds, stocks. W. J. Fahy. Forbes 16:519-20 Jl 15 '25
Who pays Uncle Sam's bills? W. C. Markham. Munic & Co Eng 69:115-25 S '25; Excerpts. Automotive Ind 53:452-5 S 17 '25
Why not have a payroll tax? G: R. Meyercord. Am Ind 25:11-12 Ag '24
Wide open purse and high local taxes. A. Capper. Nation's Business 13:16-17 Mr '25
Yield of national internal revenue taxes in 1924-1925. Econ W n s 30:450-1 S 26 '25

See also Excess profits tax; Income tax—United States; Revenue act of 1924; United States—Board of tax appeals; United States—Internal revenue, Bureau of

West Virginia

Tax problem in West Virginia. 235p National industrial conference board, New York '25

Wisconsin

Recent taxation policies in Wisconsin in relation to industry. Econ W n s 28:343 S 6 '24
Tax problem in Wisconsin. 163p National industrial conference bd., New York '24
Taxation in Wisconsin injures industry. Comm & Fin Chr 119:2020-1 N 1 '24

TAXATION, Exemption from
Effect of tax exempt securities upon our national life. R. H. Ballard. N E L A Bul 12: 710-12+ N '25
Federal trade report on taxation and tax exempt securities. Comm & Fin Chr 118:2778 Je 7 '24

TAXATION, Exemption from—*Continued*
From whatever source derived—tax exempt salaries and bonds. Annalist 24:446 N 3 '24
Holdings of tax-exempt securities by the American public on July 1, 1925. Econ W n s 30:162 Ag 1 '25; Excerpt. Ry R 77:137 Jl 25 '25
House rejects constitutional amendment to prevent further issues of tax exempt securities. Comm & Fin Chr 118:743-6 F 16 '24
Mellon to renew his fight to stop tax-exempt issues. Comm & Fin Chr 119:1138 S 6 '24
Property exempt from taxation—magnitude of the totals. Comm & Fin Chr 119:408 Jl 26 '24
Proposes bankers' acceptances be tax exempt. P. M. Warburg. Comm & Fin Chr 117:2489-90 D 8 '23
Relation of tax-exempt securities to surtax reduction. Comm & Fin Chr 118:150-2 Ja 12 '24
Representative Frear's proposal to tax outstanding state and municipal securities—Secretary Mellon declares suggestion unsound and unfair. Comm & Fin Chr 118:273-4 Ja 19 '24
Tax-exempt municipal bonds—Secretary Mellon answers Congressman Frear. Comm & Fin Chr 118:128 Ja 12 '24
Tax exempt securities. Index p 7 Ap; p 13-14 D '24
Tax-exempt securities. L. T. Beman, comp. Ref Shelf 3:1-126 no 1 '25
Tax exemption provision of Agricultural credits act as to debentures of Federal Intermediate credit banks upheld by Attorney-General Daugherty. Comm & Fin Chr 117:2378-9 D 1 '23

See also Homestead law; Taxation of bonds, securities, etc.

TAXATION of bonds, securities, etc.
Capital-stock stamp tax hallucinations. E. M. Meyer. J Account 38:275-8 O '24
New York stock exchange urges repeal of federal tax on stock sales. Comm & Fin Chr 121:2234 N 7 '25
Power of Congress to tax income from securities issued by states or political subdivisions thereof. A. W. Gregg. Econ W n s 27:269-71 F 23 '24
Taxable status of Philippine government bonds. I B A of A 14:9-13 S 23 '25
Taxation of securities. I B A of A 12:81-5 Ja 30 '24
Taxation of securities in Europe. M. B. Carroll, comp. U S Bur For & Dom Com Trade Information Bul 326:1-25 '25

See also Taxation, Exemption from

TAXATION of gifts
Tax on gifts. Index p 13 Ap '24

TAXCO, Mexico
Taxco, in Guerrero, Mexico. R. B. Brinsmade. il map Eng & Min J 119:1050-4 Je 27 '25

TAXICAB companies
Courage fathered yellow taxis: service made 'em grow. B. C. Forbes. Forbes 15:341-4 D 15 '24
Safe service builds business for taxi-cab companies. J: W. Weibley. il Nat Safety N 8: 49 O '23

Accounting
Accounting for a taxi-cab, transfer and storage business. C: F. Schlatter. J Account 39:367-79 My '25

TAXICAB drivers
Modernizing employment methods. A. J. Snow. il Elec Ry J 64:387-9 S 13 '24
Reduction of automobile accidents by use of psychological tests. A. J. Snow. Soc Auto Eng J 17:163-6 Ag '25
Scientific selection of taxicab drivers. A. J. Snow. il Nat Safety N 10:5-6+ Jl '24
Setting an example in safe driving. R. S. Gilfillan. il Nat Safety N 12:31-2 O '25
Taxicab owners to continue drivers' tests. Nat Safety N 10:14 D '24
Taxicabs, Rochester, N.Y. Monthly Labor R 17:1353-4 D '23
Tests for taxi drivers. Nation's Health 7:427 Je '25

TAXICAB industry
Three methods that doubled our sales; service of the Yellow cab manufacturing company. J: Hertz. il System 46:575-7+ N '24

TAXICAB insurance. See Insurance, Taxicab

TAXICABS
Astor taxicab has V-shaped radiator and unique color combination. il Automotive Ind 53:346 Ag 27 '25
Cab traffic in Chicago. W: G. Beard. W Soc E J 29:109-10; Discussion. 110-11 Mr '24
Gotfredson now building taxicab in Canada. il Automotive Ind 52:491-2 Mr 12 '25
New yellow cab weighs 500 pounds less than previous model. il Automotive Ind 50:818 Ap 10 '24
Novel door construction appears in new Bauer taxicab. diag Automotive Ind 52:311 F 19 '25
On the transport throne, via the taxi. S. Bent. Nation's Business 13:33 Ja '25
Paris taxicabs use four-wheel brakes built under Serex license. il diags Automotive Ind 49:1213-15 D 13 '23
Proposal of taxis for P.R.T. advanced by T: E. Mitten. Elec Ry J 68:838 N 7 '25
Single passenger taxicabs built in France. il Automotive Ind 49:1219 D 13 '23
Specially designed chassis are required for London taxicab market. M. W. Bourdon. Automotive Ind 50:521 F 28 '24
Taxicabs restricted from cruising on certain streets in New York. Automotive Ind 50: 1282-3 Je 12 '24

See also Street railroads—Taxicab and "drive yourself" service

Laws and regulations
Taxicab—its service and regulation. W: A. Schnader. Ann Am Acad 116:101-6 N '24
West Virginia decision enjoins taxi men from soliciting business along railway route between Princeton and Bluefield. Elec Ry J 65:861-2 My 30 '25

Specifications
American taxicab specifications; tabulation. Automotive Ind 50:404-5; 52:386 F 21 '24, F 26 '25

Windows
Shatter-proof windows protect taxicab patrons. Nat Safety N 12:32 Ag '25

TAYLOR, David Watson
Portrait. Marine Eng 29:724 D '24

TAYLOR, Frederick W.
Critical essays on scientific management; being a collection of articles inspired by Copley's life of Frederick W. Taylor. C: de Freminville, I. Fisher, I. M. Tarbell and others. Taylor Soc Bul 10:30-92 pt 2 F '25
Frederick W. Taylor, father of scientific management. F. B. Copley. 2v Harper '23; Review, by O. Sheldon. Taylor Soc Bul 9:5-15 F '24; Review, by R: A. Fiess. Harvard Business R 3:85-8 O '24; Same abr. Taylor Soc Bul 10:86-8 pt 2 F '25; Review, by E: P. Leonard. System 45:654+ My '24; Same. Taylor Soc Bul 10:89-92 pt 2 F '25; Review, by F. J. Miller. Mech Eng 47:153-4 F '25; Same. Taylor Soc Bul 10:84-6 pt 2 F '25; Review, by J: A. Fitch. Taylor Soc Bul 10: 171-4 Je '25
Taylor and trade unions. F. B. Copley. Taylor Soc Bul 10:182-4 Ag '25
Taylor to his men: "Take nothing for granted". il por System 45:654+ My '24

TAYLOR society
Annual meeting, New York city, Jan. 24-26. Chem & Met Eng 30:184-5 F 4 '24; Iron Tr R 74:365 Ja 31 '24; Iron Age 113:365-6+ Ja 31 '24
Meeting, New York, Dec. 4-6. Iron Age 114: 1539-40 D 11 '24; Iron Tr R 75:1588-9 D 11 '24

TAYLOR society—*Continued*
Meeting, Ann Arbor, May 14-16. Automotive Ind 52:891-3 My 21 '25; Iron Age 115:1481-3 My 21 '25; Iron Tr R 76:1355-7 My 21 '25
Work and aims of the Taylor society. P. S. Brown. Ann Am Acad 119:134-9 My '25; Same. Taylor Soc Bul 10:164-8 Je '25

TAYLOR system. See Industrial management; Time study

TEA
Our sales volume went up—right along with the mercury; Tao tea company. J. W. O'Mahoney. il System 46:40-1+ Jl '24
Tea plantation companies in 1923. Economist 99:183-4 Ag 2 '24
Tea plantation companies in 1924. Economist 101:223-4 Ag 8 '25

See also Cassina; Jewel tea company

Advertising

Jewel tea begins advertising to back up sales force. O. B. Westphal. Sales Management 8:225-6 F 7 '25
Merry Christmas awaits a big retail outlet. Ptr Ink 128:33-4 Ag 14 '24

Statistics

Coffee and tea, 1922-1924. Survey of Cur Business 30:146 F '24 [continued quarterly]
Colonial and foreign produce, 1924. Economist 100:sup31-2 F 14 '25
Imports of tea into the United States in the fiscal year 1922-1923. Econ W n s 27:51 Ja 12 '24
Imports of tea into the United States in 1924-1925. Econ W n s 30:446 S 26 '25
Imports of coffee and tea into the United States during 1923. Econ W n s 27:230-1 F 16 '24
Tea industry in 1923. Economist 98:327-8 F 16 '24
United States imports and consumption of coffee and tea in the fiscal year 1923-1924. Econ W n s 28:447 S 27 '24
United States imports and consumption of coffee and tea in 1924. Econ W n s 29: 267 F 21 '25

TEA kettles

Manufacture

Aluminum tea kettles. il Metal Ind 22:187-8 My '24

TEA rooms
Business that became a social institution; Sanborn's of Mexico City. il Am Exporter 95:11-13+ S '24

TEACHERS
Teachers' health as a result of training and occupation. E. D. Fleming. Nation's Health 7:519-22 Ag 15 '25

TEACHERS college, Columbia university, New York
Library building, Teachers college, Columbia university, New York; views and plans. Am Arch 126:pl 84-8 S 10 '24

TEACHING
Organized discussions on methods of teaching at Yale. T: K. Hendrick. Eng Educ 14:471-4 Ap '24

See also College students—Grading; Education; Industrial education; Technical education; *also* subdivision Study and teaching under special subjects, e.g. Chemistry—Study and teaching; Engineering—Study and teaching

TEAGLE, Walter C.
Unorthodox captain of industry. E: Hungerford. Ptr Ink M 8:36-8 Mr '24

TEAK
Teak: its habitat, exploitation and marketing. W. P. Roop. 37p U.S. Bur. of construction and repair, Washington '25

TEAMSTERS
Ice and water teamsters, Cleveland; labor agreement. Monthly Labor R 21:339-40 Ag '25
Truck drivers and chauffeurs, Chicago; agreement. Monthly Labor R 20:1276-7 Je '25

TEAPOT Dome. See Oil reserves (United States navy)

TEARING
Testing of resistance to tearing. H. L. Heathcote. Soc Chem Ind J (Chem & Ind) 44:109-10 Ja 30 '25

TEASER copy. See Advertisements—Teaser copy

TEAZLING machine
Use of the teasel gig. Textile World 65: 4223+ Je 28 '24

TECHNICAL association of the pulp and paper industry
Annual convention, 9th, New York, April 8-10. Tech Assn Pa ser 7:165-98 Je '24
Annual convention, 10th, New York, Feb. 3. Paper 35:15-22 F 12 '25; Paper Tr J 80:128-30 F 5 '25
Directory of members, May 1925. Tech Assn Pa ser 8:199-207 '25
Topics at T.A.P.P.I. meeting. Paper 35:11-13 O 23 '24

TECHNICAL associations
Service rendered by technical societies. A. T. Hinckley. Chem Age 32:157-8 Ap '24

TECHNICAL conference of state utility commission engineers
Conference, Washington, March 2-3, 1923. U S Bur Stand misc pub 58:1-80 '24

TECHNICAL education
Content and methods of the industrial arts. S: J. Vaughn and A. B. Mays. 397p Century co. '24
Engineering graduate in industry. A. C. Jewett. J Eng Educ 15:424-33 F '25
Fellowships and scholarships for advanced work in science and technology. Nat Research Council Bul v 7, pt 2:1-94 N '23
Language in technical education. L. E. Hinkle. J Eng Educ 15:615-22 Ap '25
Die normung und der unterricht an technischen schulen. C. Volk. diags Zeit Ver Deutsch Ing 69:684-90 My 16 '25
Some aspects of education. Engineer 139: 437 Ap 17 '25
Teaching trades in a technical school; Milwaukee technical high school. il diags Mach 30:340-3 Ja '24
Technical education and the chemical industry. 11p National industrial conference bd., inc., New York '25
Die technische hochschule zu Danzig. Roessler. il plan Elektrotech Zeit 46:1332-7 S 3 '25
Der technologieunterricht an technischen lehranstalten. Grunewald. diags Zeit Ver Deutsch Ing 69:664-71 My 9 '25
Der technologische unterricht an der technischen hochschule München. C. Prinz. Zeit Ver Deutsch Ing 69:659-63 My 9 '25
Tendencies in training methods. 19p American management assn., Committee on training methods, New York '24
What is wrong with technical education. C. R. Forbes. J Eng Educ 15:598-601 Ap '25
The National industrial conference board publishes reports of investigations of technical education in various industries.

See also Agricultural education; Apprentices; Chemical education; Chemistry—Study and teaching; College students—Grading; Corporation schools; Employees, Training of; Engineering education; Evening and continuation schools; Foundry practice—Study and teaching; Gas engineering—Study and teaching; Gas fitting—Study and teaching; Industrial education; Industrial management—Study and teaching; Machine shop practice—Study and teaching; Mining schools and education; Plumbing—Study and teaching; Printing, Practical—Study and teaching; Professional education; Scientific education; Textile education; Textile schools; Trade schools; Vocational education; *also* Massachusetts institute of technology; Rensselaer polytechnic institute

TECHNICAL institutions, Association of. See Association of technical institutions

TECHNICAL libraries
Cataloging an industrial research library. J. F. Smith. Special Lib 15:218-19 N '24
Classification problem of industrial research libraries. J. F. Smith. Special Lib 16:322-4 O '25
Operation of a technical specialized library. P. S. Cafferata. Special Lib 16:324-9 O '25
See also Business libraries; Engineering libraries; *also* General electric company—Library

TECHNICAL periodicals
See also Trade journals

Bibliography
Selected list of technical magazines. A. Winslow, comp. Lib J 49:780-5 S 15 '24

TECHNICAL products
Marketing the technical product. E. N. Simons. 200p Emmott and co., ltd., Manchester, London '24
What our men must do before they ask for an order; selling ball bearings. W. L. Batt. Sales Management 8:299-300+ F 21 '25

Advertising
Advertising X-rays sell hidden features of a product. W. L. Larned. Ptr Ink 128:93-4+ Jl 17 '24
Advice on direct mail for the advertiser in the industrial field. Ptr Ink 125:101-2 D 27 '23
Animating the inanimate product. C. G. Norton. Ptr Ink M 8:102+ Ap '24
Bringing up the industrial family—advertisingly; the Vulcan iron works. Ptr Ink 133: 101-2+ N 5 '25
Buying motives for industrial goods. M. T. Copeland. Harvard Business R 2:303-18 Ap '24
Campaigns which bid for the manufacturer's attention. Ptg Art 44:253-60 N '24
Experiments uncover copy material for technical product; adensite. Ptr Ink 125:150+ N 29 '23
Extraordinary pictures for ordinary industrial themes. Ptr Ink 131:101-2 My 21 '25
Field as a source of selling ideas. R. Perry. Ptr Ink M 9:55-6+ N '24
Getting lay dealers to absorb technical facts; Chromel resistance wire. E. B. Weiss. Ptr Ink 131:41-2+ My 28 '25
Giving industrial campaigns the news reel flavor. L. Peake. Ptr Ink M 10:86+ My '25
How safe is technical talk with the general public? R. Giles. Ptr Ink 131:41-2+ Je 11 '25
Humanized copy sells industrial product by mail; Coppus engineering corporation circularizes mines. Ptr Ink 131:107-8 Ap 2 '25
Hyatt's industrial advertising plan. P. C. Gunion. Ptr Ink 128:107-8+ Jl 17 '24
Industrial advertiser makes clever use of football appeal. Ptr Ink M 11:110+ N '25
An industrial advertising policy that built sales of millions. R. C. Beadle. Ptr Ink 129:143+ O 23 '24
Industry begins to tell 'em story. R. Cole. Ptr Ink M 11:31-2+ O '25
Linking the laboratory with more sales of food and technical products. R. Dickinson. Ptr Ink 125:89-90+ D 6 '23
Technical advertising that isn't technical. W: A. McGarry. Ptr Ink M 9:112+ S '24
Technical copy that is too full of advertising. R. Perry. Ptr Ink 130:117-18+ F 12 '25
Typographical artistry in industrial advertising. A. L. Townsend. Ptr Ink 130:41-2+ F 19 '25
Unselfish advertising to sell technical product to technical prospects. Ptr Ink M 8:64+ F '24
Use of the product as an industrial theme. W. T. Dorr. Ptr Ink 130:81-2+ Mr 12 '25
Using the product as the border in technical copy. Ptr Ink 129:33-4+ N 27 '24
Walworth uses King John to sell valves to John King. W. C. Mattox. Ptr Ink 132: 105-6+ Jl 2 '25
See also Advertising—Industries, Appeal to; Belting—Advertising; Chains—Advertising; Concrete piling—Advertising; Machinery industry—Advertising; Motor truck industry and trade—Advertising; Roller bearings—Advertising; Saws—Advertising; Storage batteries—Advertising

TECHNICAL societies. See Technical associations

TECHNICAL terms
Business dictionaries and glossaries. Special Lib 14:1-8, 167-70; 16:17-20 Ja, D '23, Ja '25

TECHNICAL writing
Composition of technical papers. H. A. Watt and P. B. McDonald. 2d ed., rev. & enl. 429p McGraw-Hill '25
Neglected instrument of precision; the necessity of a close study of language. T. J. Monaghan. Elec R (Lond) 97:5-6 Jl 3 '25
Opportunities for college graduates in the technical writing field. A. B. Zerby. Sibley J 39:288-9+ Mr '25
Publication of research. E. W. Allen. Pub Roads 6:69-72 Je '25; Same. Munic & Co Eng 69:45-51 Jl '25
Technical writing. T. A. Rickard. 2d ed., rev. & enl. 337p Wiley '23; Discussion. Soc Chem Ind J (Chem & Ind) 43:987 O 3 '24
See also Engineering societies—Proceedings

TECHNOLOGY
Profitable science in industry. D. T. Farnham and others. 291p Macmillan '25
See also Brickmaking; Building; Chemistry, Technical; Clay industries; Concrete; Dyes and dyeing; Electric engineering; Engineering; Industrial education; Inventions; Machinery; Manufactures; Metallurgy; Oil industries: Paper making; Pottery; Railroad engineering; Rubber; Steel; Technical education; Testing; Textile industry

Bibliography
Recent technical bibliographies. R. N. Brown. Special Lib 15:32-7, 58-61; 17:sup1-8 F-Mr '24, Mr '25
Science and technology. A. A. Slobod. Special Lib 16:124-5 Ap '25
Technical books of 1923. D. Hendry, comp. 28p Pratt inst. free lib., Brooklyn, N.Y. '24
Technical books of 1924. D. Hendry, comp. 27p Pratt inst. free lib., Brooklyn, N.Y. '25

Dictionaries
Dictionary of applied physics. R: T. Glazebrook, ed. 5v. Macmillan '22-'23
French-English and English-French dictionary of technical terms and phrases. J. O. Kettridge. 2v 1147p H. W. Wilson co. '25
Technical dictionary in English, Spanish & Portuguese. T: F. Palmer. 73p E. Marlborough & co., London '23
Technical vocabulary. F. de C. Henriques, Lisbon, Portugal '25

Bibliography
Business dictionaries and glossaries. Special Lib 14:1-8, 167-70; 16:17-20 Ja, D '23, Ja '25

Terminology
See also subdivisions Dictionaries and Terminology under various subjects, e.g. Heat—Terminology

TECK-HUGHES gold mines, ltd.
Report for the fiscal year ended Aug. 31, 1923. Eng & Min J 116:1008 D 8 '23

TEE slots. See Slots

TEETH
Broadcasting some facts on the care of children's teeth. Nation's Health 6:862-3 D '24

TELAUTOGRAPH
Hotel inter-communication; the efficient service rendered by a telautograph system of communication. R. S. Frodin. il Am Arch 126:207-10 Ag 27 '24

TELEGRAPH
Art of communication engineering. H. H. Harrison. diags Inst E E J 63:305-8 Mr '25; Abstract. Electrician 93:549 N 14 '24
Binding together the nation's business. T: S. Brickhouse. maps Comm & Fin 14:699-701 Ap 15 '25
Dr Louis Cohen's paper on alternating current cable telegraphy. L. A. MacColl. J Fr Inst 199:99-105 Ja '25
From beacon fire to radio. W. K. Towers. 302p Harper '24
Innere einrichtung eines verstärkeramts. K. Höpfner and K. Stöckel. diags Elektrotech Zeit 45:156-8 F 28 '24
Inspection and testing of materials, apparatus and lines. F. L. Henley. 355p Longmans '23
Metallic polar-duplex telegraph system for long small-gage cables. J: H. Bell, R. B. Shanck and D. E. Branson. il diags Am Inst E E J 44:378-86 Ap '25; Discussion. 44: 541-2 My '25
Die technik der telegraphie und telephonie im weitverkehr. F. Lüschen. il diags map Elektrotech Zeit 45:793-9, 824-7 Jl 24-31 '24
Telephony and telegraphy at Wembley. il diags Electrician 93:229-30+ Ag 29 '24
See also Radio telegraph; Railroads—Telegraph

Alphabets
Le nouveau code de signalisation Squier. Génie Civil 85:482 N 22 '24

Dictionaries
British standard list of terms and definitions used in connection with telegraphs and telephones. 27p British engineering standards assn., London '24

Laws and regulations
International communications and the International telegraph convention. P. E. D. Nagle. U S Bur For & Dom Com misc ser 121:1-68 '23

Picture transmission
See Phototelegraphy

Private wire systems
Nation's private wires; including directory of private wire systems. T. H. Price and others. il maps Comm & Fin 14:695-703+ Ap 15 '25

Chile
History of the telephone and telegraph in Chile, 1851-1922. V: M. Berthold. 87p American telephone and telegraph co., New York '24

Uruguay
History of the telephone and telegraph in Uruguay, 1886-1925. V: M. Berthold. 77p V: M. Berthold, New York '25

TELEGRAPH, Carrier current
Application of radio engineering principles to submarine telegraph cables. G: O. Squier. il diags J Fr Inst 198:29-56 Jl '24
Der drahtfunk. H. Schulz and K. W. Wagner. diags Elektrotech Zeit 45:485-9 My 15 '24
Speeding up the sluggish cables; wired wireless and a re-designed Morse alphabet for submarine cable communication. S. R. Winters. il Sci Am 131:170 S '24
Voice-frequency carrier telegraph system for cables. B. P. Hamilton and others. il diags Am Inst E E J 44:213-18 Mr '25

TELEGRAPH, Printing
L'appareil Baudot. E. Montoriol. diag Génie Civil 86:258 Mr 14 '25
Automatic printing telegraph for intra-city business. il map Ry Age 78:1095-6 My 2 '25
Speeding up the telegraphs: a forecast of the new telegraphy. D. Murray. diags Inst E E J 63:245-72 Mr '25; Abstracts. Electrician 93:727 D 26 '24; Elec R (Lond) 96:35 Ja 2 '25; Engineering 119:4-5 Ja 2 '25; Discussion. Inst E E J 63:272-80 Mr '25; Electrician 93:728 D 26 '24; Elec R (Lond) 96:36 Ja 2 '25
See also Stock ticker machine

TELEGRAPH, Submarine
Application of radio engineering principles to submarine telegraph cables. G: O. Squier. il diags J Fr Inst 198:29-56 Jl '24
Cable companies' profits. Economist 99:807-8 N 22 '24
Cables and wireless and their rôle in the foreign relations of the United States. G: A. Schreiner. 269p Stratford co., Boston '24
Die eigenschaften von krarupleitungen. U. Meyer. diag Elektrotech Zeit 46:1033-5 Jl 9 '25
Loaded submarine telegraph cable. O. E Buckley. il Am Inst E E J 44:821-9 Ag '25; Discussion. 44:1248-9 N '25
Neue fortschritte in der unterseekabel-telegraphie. P. Gurewitsch. Elektrotech Zeit 46:304-5 F 26 '25
New cable sends messages at eight times the present speed. il Dun's Int R 44:52-3 D '24
New cable speeds up America's service with southern Europe. il Dun's Int R 45:56-8 My '25
Speeding up the sluggish cables; wired wireless and a re-designed Morse alphabet for submarine cable communication. S. R. Winters. il Sci Am 131:170 S '24
See also Cable laying and supply ships

TELEGRAPH, Wireless. See Radio telegraph

TELEGRAPH companies
Public utility compendium of the Commercial & financial chronicle [formerly Electric railway section]. Comm & Fin Chr 119:1-180 sec 2 N 1 '24 [issued twice a year on the first Saturday in May and November]
See also Mackay companies; Western union telegraph company

TELEGRAPH lines
Beeinflussung von fernmeldeleitungen (FM) durch hochspannungsanlagen (H). Jäger. il diags Elektrotech Zeit 45:417-28 My 1 '24
Certain factors affecting telegraph speed. H. Nyquist. diags Am Inst E E J 43:120-30 F '24; Discussion. 43:1197-8 D '24
Inductive interference with communication circuits. A. Russell. Inst E E J 62:941-6 N '24
Power circuit interference with telegraphs and telephones. S. C. Bartholomew. diags Inst E E J 62:817-58 [bibliog. p. 855-7] O '24; Abstracts. Elec R (Lond) 94:636-8, 671-3 Ap 18-25 '24; Electrician 92:482-3+ Ap 18 '24; Discussion. Inst E E J 62:858-78; 63: 389-96 O '24, Ap '25; Elec R (Lond) 94:943-4 Je 6 '24

TELEGRAPH offices
Largest railway telegraph office opened at Topeka. il Ry Age 79:279-80 Ag 8 '25

TELEGRAPH relays. See Relays, Telegraph

TELEGRAPHERS
Commercial telegraphers. Monthly Labor R 17:1120-3 N '23
Commercial telegraphers' union effected an agreement with the United press, the International news service, and the Universal service for three years. Monthly Labor R 19:1288-93 D '24
See also Railroads—Telegraphers

TELEMETER
Bureau of standards improves brake lining test apparatus. H. Chase. il diag Automotive Ind 50:136-7 Ja 17 '24
New developments in electric telemeters. O. S. Peters and R. S. Johnston. il diags Am Soc T M Pro 23 pt 2:592-601 '23
New electrical telemeter. diags Engineer 137: 579-80 My 23 '24; Soc Auto Eng J 14:582-4 Je '24
New electrical telemeter. B. McCollum and O. S. Peters. il diags U S Bur Stand Tech Pa 247:737-77 '24

TELEPATHY

Experiences which I cannot explain away. W. F. Prince. il Sci Am 131:384-6 D '24

Experimental telepathy; tests by Dr Carl Bruck on the transmission of drawings. A. Gradenwitz. il Sci Am 130:304-5 My '24

Telepathy and radio. J. M. Bird. Sci Am 130:382+ Je '24

TELEPHONE

Amazing world growth of telephone facilities; graphs. Sci Am 133:17 Jl '25

Application of electricity and magnetism to transmission in the telephone plant. 5v American telephone and telegraph co., New York '23

Applications of long distance telephony on the Pacific coast. H. W. Hitchcock. il diags map Am Inst E E J 42:1264-70 D '23

Art of communication engineering. H. H. Harrison. diags Inst E E J 63:305-8 Mr '25; Abstract. Electrician 93:549 N 14 '24

Aufbau und praktische anwendungen der Pleijelspule. E. Schürer. Elektrotech Zeit 45:213-14 Mr 13 '24

Aufgabenstellung für fernsprechanlagen mit wählerbetrieb. F. Lubberger. il diags Zeit Ver Deutsch Ing 69:1330-3 O 17 '25

Electrical construction. E. E. Browne. diags J Elec 52:172-4 Mr 1 '24

Feinmechanik und maschinenbau. O. Richter. il diags Zeit Ver Deutsch Ing 68:1089-92 O 18 '24

Das fernsprechen auf weite entfernung. K. W. Wagner. Elektrotech Zeit 45:1-6, 25-9 Ja 3-10 '24

Der frequenzbereich von sprache und musik. K. W. Wagner. diags Elektrotech Zeit 45: 451-6 My 8 '24

Large uses of steel in small ways; telephones. il Iron Tr R 75:1716 D 25 '24

Maintenance of telephone systems. P. E. Erikson and R. A. Mack. Electrician 92:322+; Discussion. 323 Mr 14 '24

Principles and practice of telephony. J. G. Mitchell. 5v McGraw-Hill '23

Principles of transmission in telephony. M. P. Weinbach. 303p [bibliog. p. 287-90] Macmillan '24

Sprachübertragung in langen fernkabelleitungen. K. Höpfner and B. Pohlmann. Elektrotech Zeit 45:135-7 F 21 '24

Die technik der telegraphie und telephonie im weitverkehr. F. Lüschen. il diags map Elektrotech Zeit 45:793-9, 824-7 Jl 24-31 '24

La technique des lignes pupinisées. L. D. Cahen. Génie Civil 86:257-8 Mr 14 '25

Telephone communication; with particular application to medium-frequency alternating currents and electromotive forces. C: A. Wright and A. F: Puchstein. 515p McGraw-Hill '25

Telephone development. E. Williams. map Electrician 93:460-2, 493-5, 526 O 24-N 7 '24

Telephone transformers. W. L. Casper. il diags Am Inst E E J 43:197-209 Mr '24; Discussion. 43:1201-2 D '24

Telephone transmission standards. F. Breisig. Electrician 94:114-15 Ja 30 '25

Telephony and telegraphy at Wembley. il diags Electrician 93:229-30+ Ag 29 '24

Telephony, including automatic switching. A. B. Smith. 450p Drake '24

Transmission unit. R. V. L. Hartley. Electrician 94:58-9, 93-4 Ja 16-23 '25

Transmission unit and telephone transmission reference systems. W. H. Martin. Am Inst E E J 43:504-7 Je '24; Same. Electrician 93:288 S 12 '24; Discussion. Am Inst E E J 44:282-3 Mr '25

Triumph of the telephone. J. J. Carty. Elec W 84:573-5 S 20 '24

Über das fernsprech-übertragungsmass. F. Breisig. Elektrotech Zeit 45:74-5 Ja 31 '24

Unsolved problem in telephony; how disputes about calls may be overcome. C. R. Balbi. il diags Electrician 94:146-7 F 6 '25

See also Electric plants (central stations) —Telephone; Microphones; Mine telephone; Radio telephone; Railroads—Telephone; Salesmanship—Telephone calls; Street railroads—Telephone; Telautograph; Telephone cables; Telephone lines; Telephone receivers; Telephone research; Theatrophone; *also* American telephone and telegraph company

Amplifying apparatus

Entwicklung und gegenwärtiger stand der verstärkertechnik in Deutschland. K: Höpfner. diags Elektrotech Zeit 45:109-13 F 14 '24

Modern telephone repeater stations. A. B. Hart. il diags plans Electrician 95:292-5, 318-20 S 11-18 '25

Telephone repeaters. C. Robinson and R. M. Chamney. diags Electrician 93:665-7 D 12 '24

Eine vierdrahtverstärkerschaltung mit natürlicher leitungsnachbildung. K. Fischer. diag Elektrotech Zeit 45:233-4 Mr 20 '24

Coin collecting box

Multi-coin collecting box; new prepayment device. diag Electrician 92:137 F 1 '24

Echo suppressors

Echo suppressors for long telephone circuits. A. B. Clark and R. C. Mathes. il diags Am Inst E E J 44:618-26 Je '25; Discussion. 44: 778-80 Jl '25

History

History of the telephone in the United Kingdom. F. G. C. Baldwin. 754p Van Nostrand '25

Loud speaking apparatus

Discussion on loud-speakers for wireless and other purposes. Inst E E J 62:265-98, 373-5 Mr-Ap '24; Abstracts. Elec R (Lond) 93: 870-3, 909-11 D 7-14 '23; Engineering 116:718 D 7 '23

Effect of a horn on the pitch of a loud speaking telephone. E. W. Kellogg. Gen Elec R 27:556-62 Ag '24

Les haut-parleurs pour l'amplification des sons transmis à distance. il diags Génie Civil 84:526-8 My 31 '24

Manufacture

Few examples of press work in making telephone instruments. il Am Mach 62:814 My 21 '25

Manufacture of telephone equipment. H. H. Harrison. chart Electrician 94:624-5 My 29 '25

Material handling problems at the Western electric company. F. J. Feeley. il W Soc E J 30:360-71 Ag '25

Telephones take much copper and brass. Iron Tr R 76:1633 Je 25 '25

Police uses

Notruf-polizeimeldeanlagen. Butenop. il Elektrotech Zeit 46:1036-8 Jl 9 '25

Polizeimeldeanlagen. il diag Elektrotech Zeit 46:497-500 Ap 2 '25

Power plants

See Telephone exchanges—Power

Private wire systems

Conference circuits, feature of railroad exchange. Ry Age 78:1628 Je 27 '25

Rates

Michigan Bell wins big rate case. Pub Serv Management 38:6-7 Ja '25

Standardization of telephone rates. C. A. Wright and D. B. Judd. (Bul. 23) 74p Ohio state univ. eng. exp. sta., Columbus '23

Standards

Industrial standardization. F. L. Rhodes. Soc Auto Eng J 16:379-80 Mr '25; Same. N E L A Bul 12:123-5 F '25

Telephone transmission units. T. F. Purves. Electrician 94:144-5 F 6 '25; Discussion. 94: 369, 454-5, 535+, 562-3, 630; 95:94-5 Mr 27, Ap 17, My 8-15, 29, Jl 24 '25

Tables, calculations, etc.

Measurement of cross-talk. A. H. de Voogt. diags Electrician 94:332-3 Mr 20 '25; Discussion. E. A. Beavis. 94:430 Ap 10 '25

TELEPHONE—Tables, calculations, etc.—*Cont.*
Measuring methods for maintaining the transmission efficiency of telephone circuits. F. H. Best. il diags Am Inst E E J 43:136-44 F '24; Discussion. 43:1199-1201 D '24
Theory of probability and some applications to engineering problems. E. C. Molina. Am Inst E E J 44:122-7 F '25; Discussion. 44:526-8 My '25
Trunk telephone cables. E. A. Beavis. diags Electrician 92:348-50 Mr 21 '24
Vereinfachtes verfahren zur berechnung der elektrischen konstanten von fernsprechleitungen aus ihren scheinwiderständen für leerlauf und kurzschluss. K. Schild. Elektrotech Zeit 45:331-3 Ap 10 '24

Testing

Inspection and testing of materials, apparatus and lines. F. L. Henley. 355p Longmans '23

Chile

History of the telephone and telegraph in Chile, 1851-1922. V: M. Berthold. 87p American telephone and telegraph co., New York '24

China

Growth of telephone systems in China; the Tientsin, North China, installation. H. A. Fleet. il Elec R (Lond) 94:539-40 Ap 4 '24

Europe

European international telephony. F. Gill. Electrician 92:508-10 Ap 25 '24
European telephone network. A. Craemer. maps Electrician 92:286-9 Mr 7 '24; Discussion. 92:537 My 2 '24

Germany

Telephontechnische betrachtungen anlässlich der neugestaltung der telephonanlage Nürnberg-Fürth. F. Schmid. il plans Elektrotech Zeit 46:797-800, 844-8 My 28-Je 4 '25

Great Britain

Post office and automatic telephones. T. F. Purves. il diags Inst E E J 63:617-58 Jl '25; Abstracts. Elec R (Lond) 96:432-4, 473-5 Mr 13-20 '25; Electrician 94:302-3 Mr 13 '25; Discussion. Inst E E J 63:659-79 Jl '25; Elec R (Lond) 96:434 Mr 13 '25; Electrician 94: 305 Mr 13 '25
Post office engineering work. Engineer 139: 184 F 13 '25

Japan

Japan's notable telephone development. il Am Exporter 94:79+ F '24

Southwestern states

Over $17,000,000 spent in 1924 by the Southwestern Bell telephone company. Manuf Rec 87:76 F 19 '25

Sweden

Das fernsprechkabel Stockholm-Gothenburg. il map Elektrotech Zeit 45:1057-9 O 2 '24

Uruguay

History of the telephone and telegraph in Uruguay, 1886-1925. V: M. Berthold. 77p V: M. Berthold, New York '25

TELEPHONE, Automatic
Automatic switching of toll traffic. A. B. Smith. diags W Soc E J 29:45-64 F '24
Automatic telephone progress; details of the new London County hall installation. il Electrician 91:573 N 23 '23; Elec R (Lond) 93:876-7 D 7 '23
Automatic telephone system. W: Aitken. 3v 297p, 240p, 354p Van Nostrand '21-'24; Review of v. 3. Engineering 118:663 N 14 '24
Automatic telephones. F. A. Ellson. 215p [bibliog. p. 211-13] Pitman '24
Automatic telephony at York; a large new Strowger exchange. il Elec R (Lond) 96:99-101 Ja 16 '25; Electrician 94:9+ Ja 2 '25
Die berechnung der wählerzahl in selbstanschlussämtern. M. Merker. il diag Elektrotech Zeit 45:1076-80 O 9 '24
Berechnung der wählerzahl in selbsttätigen fernsprechämtern. M. Langer. diags Elektrotech Zeit 45:203-8 Mr 13 '24
Conference circuits, feature of railroad exchange. Ry Age 78:1628 Je 27 '25
Economic development of step-by-step automatic telephone equipment. P. G. Andres. il diags Am Inst E E J 42:1309-17 D '23; Discussion. 43:1190-1 D '24
Elements of automatic telephony. A. Crotch. 74p Spon '24
International electric co.'s work and products. il Elec R (Lond) 95:822-3 N 28 '24
Introduction to the Strowger system of automatic telephony. H. H. Harrison. 146p Longmans '24
Large private automatic telephone exchange; the Britannic House relay installation. il Elec R (Lond) 94:1068 Je 27 '24
Post office and automatic telephones. T. F. Purves. il diags Inst E E J 63:617-58 Jl '25; Abstracts. Elec R (Lond) 96:432-4, 473-5 Mr 13-20 '25; Electrician 94:302-3 Mr 13 '25; Discussion. Inst E E J 63:659-79 Jl '25; Elec R (Lond) 96:434 Mr 13 '25; Electrician 94: 305 Mr 13 '25
Principles of automatic telephony, circuits and trunking. H. P. Mahoney. 88p Automatic electric company, Chicago '24
Private automatic branch exchanges. A. B. Eason. il Elec R (Lond) 96:724-6 My 8 '25
Relay automatic telephone exchange for a naval establishment. il Electrician 95:19 Jl 3 '25; Same. Elec R (Lond) 97:170 Jl 31 '25
Strowger automatic telephones afloat. il Elec R (Lond) 96:622-3 Ap 17 '25; Electrician 94:486 Ap 24 '25
Telephony in Wales. Electrician 95:235 Ag 28 '25

TELEPHONE, Carrier current
Broadcasting by wired radio. R. D. Duncan, jr. il diags Elec W 84:157-60 Jl 26 '24
Carrier current telephony experiments on Connecticut company lines. L. T. Wilson. il Aera 12:2023-7 Jl '24
Carrier current telephony on power transmission lines. N. H. Slaughter. il diags W Soc E J 30:345-50; Discussion. 350-2 Ag '25
Carrier-current telephony on the high-voltage transmission lines of the Great Western power company. J: A. Koontz, jr. Am Inst E E J 43:122-3 F '24
Carrier telephony on power lines. N. H. Slaughter and W. V. Wolfe. diags Am Inst E E J 43:377-81 Ap '24; Same cond. Engineer 138:220 Ag 22 '24; Discussion. Am Inst E E J 44:65-9 Ja '25
Communication over 140,000-volt line. C. A. Boddie. il diags Elec W 82:1259-62 D 22 '23
Development of wired radio in Germany. K: Rottgardt. il diags Radio N 5:1230-1+ Mr '24
Der drahtfunk. H. Schulz and K. W. Wagner. diags Elektrotech Zeit 45:485-9 My 15 '24
Guiding wire in electromagnetic transmission. O. B. Blackwell. il J Fr Inst 199:221-33 F '25
Line radio and the effects of metallic conductors on underground communication. J. J. Jakosky and D. H. Zellers. diags U S Bur Mines Rep of Invest 2682:1-10 Ap '25 (typew); Excerpts. Am Inst E E J 44:600 Je '25
Music from your lamp socket. R. D. Duncan, jr. il Radio N 6:462-3+ O '24
Radio has possibilities in railroad operation; carrier current for communication and control. G. Y. Allen. il Ry R 76:1214-16 Je 27 '25
Radio service given over the telephone. T: F. Gilliams. il Radio N 6:1632-3 Mr '25
Recent developments in carrier-current communication. L. F. Fuller. il Am Inst E E J 42:1271-4 D '23; Abstract. Elec W 82:804-5 O 20 '23
Some developments in the electrical industry during 1924. J: Liston. il Gen Elec R 28: 39-40 Ja '25
Some experiences with a 202-mile carrier-current telephone. E. A. Crellin. Am Inst E E J 42:1275-7 D '23

TELEPHONE, Carrier current—*Continued*
Use of carrier current for communication purposes in collieries. E. L. Hann. Electrician 92:108 Ja 25 '24
Virginian railway electrification opened; radio communication between locomotives. il Elec Ry J 66:539-41 O 3 '25
Wire lines and radio; how each help to make world's communications of greater use to mankind. R: H. Ranger. il diags Wireless Age 11:25-7 My '24
Wired radio broadcasting in Germany. A. Neuburger. il Radio N 6:1388 F '25
Wired radio experiments for amateurs. K: Rottgardt. diags Radio N 5:1589+ My '24
Wired wireless and loud speakers take the place of telephone operators in handling the targets on the range. H. W. Webbe. il Radio N 5:866+ Ja '24

Patents

General Squier again loses in "wired-wireless" suit. Elec W 85:1091 My 23 '25
General Squier charges the A.T. & T. company with infringement of his patents. Elec W 82:1234 D 15 '23
Squier loses patent suit. Elec W 84:479 S 6 '24
Supreme court refuses review of Squier patent case. Elec W 86:863 O 24 '25

TELEPHONE, Wireless. See Radio telephone

TELEPHONE cables
Applications of long distance telephony on the Pacific coast. H. W. Hitchcock. il diags maps Am Inst E E J 42:1264-70 D '23
Die bauart und technischen eigenschaften der fernkabel. K. Dohmen. il Elektrotech Zeit 45:89-91 F 7 '24
Das fernsprechkabel Stockholm-Gothenburg. il map Elektrotech Zeit 45:1057-9 O 2 '24
Finish New York-Chicago telephone cable. Elec W 86:430 Ag 29 '25
Krarup cable development in Denmark. diags Electrician 91:692-4 D 21 '23
Neue versuche mit pupinisierten fernsprechseekabeln. P. Craemer and E. Müller. il diags Elektrotech Zeit 46:1577-80, 1617-26 O 15-22 '25
New Anglo-Dutch telephone cable. il Elec R (Lond) 95:384-5 S 12 '24; Electrician 93: 256-7 S 5 '24
Trunk telephone cables. E. A. Beavis. diags Electrician 92:348-50 Mr 21 '24
Über die neueste entwicklung der deutschen Krarup-seekabel. E. Schürer. Elektrotech Zeit 45:119-20 F 14 '24

Manufacture

Material handling problems at the Western electric company. F. J. Feeley. il W Soc E J 30:360-71 Ag '25

TELEPHONE companies
Bell system a central organization. J. D. Riley. il Pub Serv Management 37:172-4 D '24
Bell telephone system budget plans. C. A. Heiss. Management & Adm 10:133-6 S '25
Public utility compendium of the Commercial & financial chronicle [formerly Electric railway section]. Comm & Fin Chr 119:1-180 sec 2 N 1 '24 [issued twice a year on the first Saturday in May and November]

See also American telephone and telegraph company; Bell telephone laboratories, inc.; International telephone and telegraph company; New England telephone and telegraph company; New York telephone company

Advertising

Telephone house publications. il Ptg Art 44: 287-8 N '24

Finance

How can growth and satisfactory balance sheets both be maintained. A. R. Bone. Pub Serv Management 37:166-8 D '24

Safety measures

Accident prevention work in the Bell telephone company. W. P. Elstun. Safety Eng 48:189-92 N '24

TELEPHONE company buildings
Building of the American telephone & telegraph company. K. Clark. il plan Arch Rec 55:81-92 Ja '24
Four-story substructure for a steel building; Barclay-Vesey telephone building, New York. F. W. Skinner. il diag Arch Forum 41: 111-12 S '24; Same. Eng & Contr (Bldgs) 63:179-81 Ja 28 '25
Pacific telephone and telegraph company building, San Francisco. il Eng & Contr (Bldgs) 62:1390-1 D 24 '24
Pacific telephone & telegraph co. building, San Francisco. il plan Arch Forum 41:115 S '24
Southwestern Bell telephone company's building, St Louis. A. N. Rebori. il Arch Rec 57:574-6 Je '25

TELEPHONE conference, Paris
Die alleuropäische fernsprechkonferenz in Paris, vom 28. April bis 3. Mai 1924. Elektrotech Zeit 45:921-8 Ag 28 '24

TELEPHONE crossarms
Commonplace crossarm plays important role in dramatic story of America's telephone service. R. T. Barrett. Pub Serv Management 39: 150 N '25

TELEPHONE exchanges
Elgin telephone exchange, Toronto. il Can Eng 46:605-6 Je 10 '24
Grover-Howard exchange. il Can Eng 48:626 Je 30 '25
Influence of zoning on the design of a telephone plant. A. P. Allen. maps Am Soc C E Pro 51:232-41 F '25; Discussion. 51:447-9 Mr '25
Modern manual telephony. il Electrician 94: 335 Mr 20 '25
Die neuzeitliche deutsche entwicklung des fernsprechämterbaus für den orts- und fernverkehr. A. Kruckow. il diags plans Elektrotech Zeit 45:1233-8, 1273-8 N 13-20 '24
Private automatic branch exchanges. A. B. Eason. il Elec R (Lond) 96:724-6 My 8 '25
Weston-super-Mare's new telephone exchange. il Elec R (Lond) 96:782 My 15 '25

Power

Care and operation of central office power plant. 142p N.Y. telephone co., New York '23
Die stromversorgung grosser telephonzentralen. K. Schmidt. il diags Elektrotech Zeit 45:708-10 Jl 3 '24
Die stromversorgung kleiner telephonzentralen. B. Sternberg. Elektrotech Zeit 46:87-8 Ja 15 '25

TELEPHONE in apartment houses
Inter-phone system for apartments. C. A. Davis. Bldg Age 46:137 D '24

TELEPHONE in business
Better public relations by telephone. R. F. Bonsall. J Elec 53:441 D 15 '24; Same cond. Elec W 84:1216 D 6 '24
Grocers turn to telephone selling in effort to cut costs. il Sales Management 8:529-30+ Ap 4 '25
Now it's long distance. F. P. Valentine. Comm & Fin 14:1226-7 Je 24 '25
Number, please? L. Dale. Comm & Fin 14:13 Ja 7 '25
Use of the telephone in business. J: C. Scammell. 113p Ronald press '24
Voice of the telephone operator. E. Farrell. Gas Age 55:775 My 30 '25
The way in which the telephone is used in business. R. S. Durstine. System 48:158-60 Ag '25

See also Salesmanship—Telephone calls

TELEPHONE lines
Abgleichverfahren zur beseitigung der induktionsstörungen. K. Dohmen and K. Kupfmüller. il Elektrotech Zeit 45:266-9 Mr 27 '24
Beeinflussung von fernmeldeleitungen (FM) durch hochspannungsanlagen (H). Jäger. il diags Elektrotech Zeit 45:417-28 My 1 '24

TELEPHONE lines—*Continued*
Beetles attack lead cables and interrupt service. S. R. Winters. Elec W 83:1337-8 Je 28 '24
Die berechnung der auf betriebsfernsprechleitungen an drehstrom-hochspannungsgestängen induzierten gefährdungsspannungen. G. Eggeling. Elektrotech Zeit 46:368-74 Mr 12 '25
Effect on metal-covered telephone cables of adjacent power lines. H. Pleijel. Elec W 83: 139-40 Ja 19 '24
Das englisch-holländische fernsprechkabel 1924. E. Müller. Elektrotech Zeit 46:120-1 Ja 22 '25
Handbook of telephone circuit diagrams with explanations. J: M. Heath. 279p McGraw-Hill '24
Induction from street lighting circuits; effects on telephone circuits. R. G. McCurdy. diags Am Inst E E J 44:1088-94 O '25; Discussion. 45:62-3 Ja '26
Inductive interference with communication circuits. A. Russell. Inst E E J 62:941-6 N '24
Induktionswirkung von höheren harmonischen eines starkstromes auf fernsprechleitungen. A. Zastrow. Elektrotech Zeit 46:1367-9 S 3 '25
Joint use of poles by utilities. A. E. Knowlton. diags Elec W 84:1203-6 D 6 '24
K-m chart for computing electromagnetic induction between an aerial line and neighboring circuits. R. Mitsuda and K. Kasai. diags Gen Elec R 28:290-7 My '25
London-Bristol telephone cable. diag Elec R (Lond) 94:1034-5 Je 27 '24
Longest through telephone circuit in world links Chicago with Los Angeles and the Great Southwest. R. T. Barrett. il Pub Serv Management 36:147-8 My '24
Measuring methods for maintaining the transmission efficiency of telephone circuits. F. H. Best. il diags Am Inst E E J 43:136-44 F '24; Discussion. 43:1199-1201 D '24
Metallic polar-duplex telegraph system for long small-gage cables; superimposed on telephone circuits. J: H. Bell, R. B. Shanck and D. E. Branson. il diags Am Inst E E J 44:378-86 Ap '25; Discussion. 44:541-2 My '25
Power circuit interference with telegraphs and telephones. S. C. Bartholomew. diags Inst E E J 62:817-58 [bibliog. p. 855-7] O '24; Abstracts. Elec R (Lond) 94:636-8, 671-3 Ag 18-25 '24; Electrician 92:482-3+ Ap 18 '24; Discussion. Inst E E J 62:858-78; 63:389-96 O '24, Ap '25; Elec R (Lond) 94:943-4 Je 6 '24
Practises in telephone transmission maintenance work. W. H. Harden. bibliog il diags map plan Am Inst E E J 43:1124-8 D '24; Discussion. 44:419-22 Ap '25
Some artificial lines and networks associated with the uniform telephone transmission line; work conducted by the research staff of the General electric co., ltd. diags Inst E E J 63:593-6 Je '25
Submarine conduit line. G. H. McKelway. Elec W 86:752-3 O 10 '25
Telephone circuit unbalances; determination of magnitude and location. L. P. Ferris and R. G. McCurdy. diags Am Inst E E J 43: 1133-41 D '24; Discussion. 44:419-22 Ap '25
Telephone development. E. Williams. map Electrician 93:460-2, 493-5, 526 O 24-N 7 '24
Transmission circuits for telephonic communication, methods of analysis and design. K. S. Johnson. 326p Western elec. co., inc., Eng. dept., Lancaster, Pa. '24
Transmission maintenance of telephone systems. F. E. Erikson and R. A. Mack. diags Inst E E J 62:653-79; Discussion. 679-87 Ag '24; Abstract. Elec R (Lond) 94:472-4 Mr 21 '24

See also Telephone cables

Construction

Automotive and labor saving equipment in telephone work. T. C. Smith. il W Soc E J 28:543-57 D '23
Labor saving apparatus for contractors. J. W. Kirk. il Am Exporter 94:101+ My '24
Pontoons support telephone poles. il Eng N 92: 373 F 28 '24

TELEPHONE operators
Telephone industry—Herrin, Ill. Monthly Labor R 18:588-9 Mr '24

TELEPHONE receivers
Determination of resonant frequencies and decay factors. E. Mallett. Inst E E J 62:517-25 Je '24
Die entwicklung des fernhörers. Bähr. Elektrotech Zeit 46:734-5 My 14 '25
Experiments on modes of resonant vibrations of telephone receiver diaphragms. J. T. MacGregor-Morris and E. Mallett. il diags Inst E E J 61:1134-8 O '23
Measurement of acoustic impedance with the aid of the telephone receiver. A. E. Kennelly. diags J Fr Inst 200:467-88 [bibliog. p. 487-8] O '25
Overtones of the diaphragm of a telephone receiver. J. T. MacGregor-Morris and E. Mallett. Inst E E J 62:278-80 Mr '24
Some acoustic experiments with telephone receivers. E. Mallett and G. F. Dutton. diags Inst E E J 63:502-16 My '25; Discussion. 63: 715-17 Jl '25
Zur frage der knackgeräusche des fernhörers. Jäger and Klewe. Elektrotech Zeit 45:364-5 Ap 17 '24
Die zusammenschaltung von fernhörern zu doppelkopffernhörern. K: Ammon. Elektrotech Zeit 46:768-9 My 21 '25

Standards

Masseinheiten für mikrophone und fernhörer. K. Hersen. Elektrotech Zeit 45:398-9 Ap 24 '24

TELEPHONE repeaters. See Telephone—Amplifying apparatus

TELEPHONE research
Post office research station; the Dollis Hill establishment. il Elec R (Lond) 95:217-19 Ag 8 '24

TELESCOPES
Heavens declare the glory of God, how a group of enthusiasts learned to make telescopes. A. G. Ingalls. il Sci Am 133:293-5 N '25
Making the twelve-inch reflector. Mech Eng 46:513-15 S '24
New 60-in. telescope for Perkins observatory, Ohio Wesleyan university. il diags Mech Eng 46:113-17+ Mr '24
Telescope of record dimensions. il Sci Am 130:237 Ap '24

TELETYPE. See Telegraph, Printing

TELEVISION. See Phototelegraphy

TELLURIUM
Crystal structure of metallic tellurium and selenium and of strontium and barium selenide. M. K. Slattery. Phys R 25:333-7 Mr '25
Crystal structures of the rhombohedral forms of selenium and tellurium. A. J. Bradley. Philos Mag 6th ser 48:477-96, pl 10 S '24
Distillation method of separating selenium from tellurium. V: Lenher and D. P. Smith. diag Ind & Eng Chem 16:837-8 Ag '24
Free energy and heat content of tellurium dioxide and of amorphous and metallic tellurium; the reduction potential of tellurium. R. Schuhmann. Am Chem Soc J 47:356-63 F '25
Isotopes of cadmium, tellurium and bismuth. F. W. Aston. Soc Chem Ind J (Chem & Ind) 43:1195-6 N 28 '24
Properties and structure of some alloys of aluminium-copper-tellurium. F. T. Sisco and M. R. Whitmore. il Ind & Eng Chem 16:838-41 Ag '24
Properties of steel containing tellurium. G. B. Waterhouse and I. N. Zavarine. il Iron Age 112:1575-6 D 13 '23
Separation of selenium and tellurium. V. Lenher and C. H. Kao. Am Chem Soc J 47:2454-61 O '25

TELLURIUM—*Continued*
Separation of selenium and tellurium by sulfur dioxide in hydrochloric acid solution. V: Lenher and C. H. Kao. Am Chem Soc J 47:769-72 Mr '25

TELLURIUM compounds
Bactericidal action of tellurium-β-di-ketones. G. T. Morgan, E. A. Cooper and F: J. Corby. Soc Chem Ind J 43:304-6 O 3 '24
Cyclotelluropentanediones and cyclotelluripentanedione dihalides. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:1601-7 Ag '24
Cyclotelluropentanediones containing aliphatic and aromatic substituents. G. T. Morgan and C. J. A. Taylor. Chem Soc J 127:797-806 Ap '25
4-ethyl*cyclo*telluropentane-3:5-dione. G. T. Morgan and A. E: Rawson. Soc Chem Ind J 44:462-3 S 25 '25
Stereoisomerism of quadrivalent sulphur, selenium and tellurium. R. F. Goldstein. Soc Chem Ind J (Chem & Ind) 44:1011-12 O 16 '25

TELLURIUM dioxide
Free energy and heat content of tellurium dioxide and of amorphous and metallic tellurium; the reduction potential of tellurium. R. Schuhmann. Am Chem Soc J 47:356-63 F '25

TELLURIUM monoxide
Tellurium monoxide. J. J. Doolan and J. R. Partington. Chem Soc J 125:1402-3 Je '24

TELLURIUM tetrachloride
Interaction of tellurium tetrachloride and the higher β-diketones. G. T. Morgan and others. Chem Soc J 125:731-65 Mr '24
Interactions of tellurium tetrachloride and acetic anhydride. G. T. Morgan and H. D. K. Drew. Chem Soc J 127:531-8 Mr '25

TELPHERAGE
Chemins de fer monorails d'usine système Tourtellier. il Génie Civil 85:16-18 Jl 5 '24
Coal and ash handling plant of the Powell Duffryn steam coal company's colliery, Bargoed. il diag plan Cassier's Ind Management 12:254-6 Ap '25
Electric telpher. H. Blyth. bibliog il diag Cassier's Ind Management 12:79-85 Ja '25
Handling without transferring. M: W. Potts. il plans Ind Management 70:296-300 N '25
Runways and telphers v. automatic trucks. Cassier's Ind Management 12:197-8 Mr '25

TEMISKAMING & Northern Ontario railway
Extension of Temiskaming & Northern Ontario Ry. il maps Ry R 76:411-22 Mr 7 '25
Recent developments on the T. & N. O. railway. S. B. Clement. Can Eng 45:573-7 D 11 '23

TEMPER-brittleness. See Steel—Temper-brittleness

TEMPERATURE
Chemistry of high temperatures. Chem & Met Eng 31:262 Ag 18 '24
Influence of temperature upon the photoelectric effect. J. R. Nielsen. diags Phys R 25:30-40 Ja '25
Relation between heat and temperature. diags Power Pl Eng 28:348-9 Mr 15 '24
Temperature of vapor above boiling salt solutions. K. Schreber. diags Chem & Met Eng 31:297-9 Ag 25 '24; Discussion. 32:327-9 F 23 '25
Temperature scale and the melting point of molybdenum. A. G. Worthing. Phys R 25: 846-57 Je '25
Temperatures of evaporation of water into air. W. H. Carrier and D. C. Lindsay. diags Refrig Eng 11:241-57 Ja '25; Same abr. Mech Eng 47:327-31 My '25; Discussion. Refrig Eng 11:257+ Ja '25

See also Atmospheric temperature; Boiling points; Concrete—Temperature; Earth temperature; Freezing points; Heat; Melting points

Measurement
Accuracy in high-temperature testing of materials. L. W. Spring and J. Kanter. il diags Power 62:325-9 S 1 '25
Control and measurement of temperatures. il Ind Management (Lond) 10:303-4+ N 29 '23
Das deutsche gesetz über die temperaturskale und die wärmeeinheit. M. Jakob. Zeit Ver Deutsch Ing 68:1176-8 N 8 '24; Abstract. Mech Eng 47:134 F '25
Duct line temperature measurement; report of Pacific coast electrical association. J Elec 54:449-50 Je 1 '25
Electric temperature indicators. I. M. Stein. diags Power Pl Eng 28:1103-4 N 1 '24
Electrical measurement of physical values; abstracts. P. A. Borden. Am Inst E E J 44: 363-5 Ap '25; Power Pl Eng 29:395-7 Ap 1 '25; Discussion. Am Inst E E J 44:656-9 Je '25
Graded temperature standards developed by French scientists. J. L. Breton. Automotive Ind 50:766 Ap 3 '24
Grundlagen für die messung hoher temperaturen. Zeit Ver Deutsch Ing 68:808 Ag 2 '24
Industrial gas lessons. diags Am Gas J 120: 101-2, 121-2, 141-2, 167-8, 199-200, 221-2, 243-4, 291-2 F 2-Mr 15, 29 '24
Measurement of the temperature of a flowing gas. R. T. Haslam and E. L. Chappell. Ind & Eng Chem 17:402-8 Ap '25; Abstract. Refrig Eng 12:67-8 Ag '25
Measuring temperature in electric machinery. I. M. Stein. diags Power Pl Eng 28:1209-11 D 1 '24
Multiple temperature recorders. il Chem & Met Eng 31:939-40 D 15 '24
Operation of electrical temperature indicators and recorders. E. H. Stivender. diags Power 60:1051-3 D 30 '24
Recent developments in alternating-current temperature indicators for transformers. V. M. Montsinger. il Gen Elec R 27:706-7 O '24
Some measurements of the spectral components of planetary radiation and planetary temperatures. W. W. Coblentz and C. O. Lampland. diag J Fr Inst 199:785-841; 200: 103-26 Je-Jl '25
Switchboard type temperature indicators. D. M. Carswell. il diags Gen Elec R 27:425-9 Jl '24
Temperature determination of non-ferrous alloys. R. L. Binney. Metal Ind 23:405-7; Discussion. 407 O '25
Temperature-entropy diagrams for nitrogen and oxygen. W. H. Rodebush, J: W. Andrews and J: B. Taylor. diag Am Chem Soc J 47:313-19 F '25
Thermal research as a guide to engineering practice. H. C. Dickinson. Am Inst Chem Eng Trans v 15 pt 2:129-37 '23
Thermocouple easily made for small plant temperature measurement. C: E. Colborn. diag Power 61:873-4 Je 2 '25; Discussion. 62: 378, 655 S 8, O 27 '25
Use of measuring instruments in oil refining. H. S. Bell. Nat Pet N 16:39+ Ja 9; 71+ F 20 '24
Zur technik der temperaturmessungen. K. Hencky. Zeit Ver Deutsch Ing 68:297-301 Mr 29 '24

See also Boiling points; Calorimeters and calorimetry; Pyrometers and pyrometry; Thermocouples; Thermometers and thermometry

Physiological effect
Basal metabolism before and after exposure to high temperatures and various humidities. W. J. McConnell, C. P. Yagloglou and W. B. Fulton. Am Soc Heat & V E J 31:23-33 Ja '25; Abstract. Dom Eng 110:21-2 F 21 '25
Effect of atmospheric conditions on health and efficiency (with special reference to the cotton industry). S. Wyatt. il J Ind Hygiene 7:317-44 [bibliog. p. 344] Jl '25
Effect of overheating. C. E. A. Winslow. Textile World 66:3303 D 6 '24
Effective temperature applied to industrial ventilation problems. C. P. Yagloglou and W. E. Miller. charts Am Soc Heat & V E J 30:515-39 Jl '24

TEMPERATURE—Physiological effect—*Cont.*
Effective temperature with clothing. C. P. Yagloglou and W. E: Miller. charts Am Soc Heat & V E J 31:59-70 Ja '25; Abstract. Heat & Ven 22:63-5 F '25
Effective temperatures or equal comfort lines. F. C. Houghten, C. P. Yaglaglou and R. R. Sayers. charts diag Heat & Ven 21:49-54 Mr '24
Four times as much work. Dom Eng 111:22-3 My 30 '25
How much heat can a man stand? K. J. Fanshier. Gas Age 56:463-4 O 3 '25
Is industry poikilothermal? D. A. Laird. il Prof Eng 9:8-10 S '24
Physiological effects of high temperatures and humidities with and without air movement. R. R. Sayers and D. Harrington. 23p U.S. Bur. of mines, Washington '23
Preventing heat prostration. E. G. Quesnel. Nat Safety N 9:27 F '24
Some effects on man of high temperatures. W. J. McConnell and R. R. Sayers. U S Bur Mines Rep of Invest 2584:1-13 Mr '24 (typew)
Unknown factors in heating and ventilation. A. H. Barker. Gas J (Lond) 169:740 Mr 25 '25
Work tests conducted in atmospheres of high temperatures and various humidities in still and moving air. W. J. McConnell and C. P. Yagloglou. Am Soc Heat & V E J 31:35-57 Ja '25

Regulation

Actual use of temperature control apparatus. il diag Textile Col 47:511-12 Ag '25
Automatic heat balance control. W. A. Kates. diags Elec W 85:1025-7 My 16 '25
Automatic temperature control adopted by Wilson-Maeulen co. il Chem & Met Eng 31: 707-8 N 3 '24
Automatic temperature-control apparatus; Empire exhibition. il diag Engineering 118: 628-9 O 31 '24
Automatic temperature control for industrial furnaces. H. M. Candee. Mach 30:471 F '24
Automatic temperature regulation; the Cambridge system of automatic control. il diags Elec R (Lond) 96:878-9 My 29 '25
Babbitt pots with automatic temperature control. il Elec Ry J 63:627-8 Ap 19 '24
Central temperature control at Hamilton co. E. D. Fowle. il Textile World 66:3113+ N 29 '24
Cryostat for precision measurements at temperatures extending to —180°. J. E. Walters and A. G. Loomis. diag Am Chem Soc J 47: 2302-6 S '25
Electric contact type temperature controller. il Power Pl Eng 28:359 Mr 15 '24
Electrical temperature control. il diags Elec R (Lond) 95:993 D 26 '24
Fixed orifice method of temperature control. diag Heat & Ven 21:55-7 Jl '24
Japanning oven temperature automatically controlled. C. S. Wadhams. diag Metal Ind 23:102 Mr '25
Method of automatic control of low temperatures employed by the United States Department of agriculture; abstract. J: T. Bowen. Refrig Eng 10:434-5 Je '24
Taking the mystery out of heat regulation. E. W. Riesbeck. il diags Dom Eng 109:24-5+ O 4 '24
Temperature control; an automatic electrical device. il diag Electrician 91:664-5 D 14 '23; Gas J (Lond) 164:655 D 5 '23
Temperature control for industrial heating; Ryan-Austin device. il Chem & Met Eng 29:891-2 N 12 '23
Temperature control in the dye house and bleachery. B. F. Wadsworth. Textile Col 45: 103-6, 171-4+, 239-42, 307-10, 375-8, 511-15, 644-7, 787-92; 46:171-5 F-Je, Ag, O, D '23, Mr '24
Temperature control is operated in three ways in the electric contact type of instrument. il Power Pl Eng 28:674 Je 15 '24
Temperature controller for boiling vats and balance manometer. diags Engineering 117: 143 F 1 '24
Temperature gage control. H. E. Trent. il Chem & Met Eng 31:22 Jl 7 '24
Temperature regulation. E. W. Riesbeck. il diags Dom Eng 110:20-3 Mr 21; 24-5 Mr 28 '25
Tools of the chemical engineer. D. H. Killeffer. il diags Ind & Eng Chem 17:703-6 Jl '25
Use of recording automatic temperature control equipment in the textile industry. il Textile Col 47:377-8 Je '25
Years of hammering establish automatic heat control. W. D. Crouch. Gas Age 55:240+ F 14 '25

See also Temperature regulators; Thermostats

TEMPERATURE, Animal and human
Correlation of skin temperatures and physiological reactions. W. J. McConnell and C. P. Yagloglou. Am Soc Heat & V E J 30: 457-63 Je '24
Heat given up by the human body and its effect on heating and ventilating problems. C. P. Yagloglou. charts Am Soc Heat & V E J 30:597-609 Ag '24

See also Temperature—Physiological effect

TEMPERATURE, Atmospheric. See Atmospheric temperature

TEMPERATURE, Low
Lowest temperature yet obtained; further experiments with liquid helium at the physical laboratory of the University of Leiden. H. K. Onnes. diags Refrig Eng 12:116-24 O '25

See also Freezing points

TEMPERATURE indicators. See Temperature—Measurement; Thermometers and thermometry

TEMPERATURE regulators
Air temperature controller; the Regitherm. il Textile World 67:459 Ja 24 '25
Bristol-Fuller temperature controller. il Chem & Met Eng 30:238 F 11 '24
Electric furnace temperature regulator. E. N. Bunting. diag Am Cer Soc J 6:1209-13 D '23
Electric type temperature controller manufactured by C. J. Tagliabue mfg. co. il Management & Adm 7:231-2 F '24; Chem & Met Eng 30:196 F 4 '24
McKee temperature controller for gas-fired furnaces. il Chem & Met Eng 31:156 Jl 28 '24
Modified thermo-regulator. J. Hume. diag Soc Chem Ind J 43:250-1 Jl 25 '24
Temperature-controlling device of rugged design. diags Chem & Met Eng 30:21 Ja 7 '24

See also Temperature—Regulation; Thermostats

Advertising

Automatic heat regulation campaign. Heat & Ven 21:63-4 S '24

TEMPERING
Colors due to thin films on metals. C. T. Heycock. J Fr Inst 200:49-50 Jl '25
Dressing and tempering of bits in the oil fields. F. B. Foley. Am Pet Inst Bul 5:68-72; Discussion. 72-5 D 31 '24
Forging and tempering high-speed and carbon tool steels. Ry R 75:282-3 Ag 23 '24
Heat treating—its principles and applications. C: H. Fulton, H. M. Henton and J. H. Knapp. il diags Iron Tr R 74:1049-51, 1161-4, 1309-12 Ap 17, My 1, 15 '24
Temper colours. R. C. Gale. Soc Chem Ind J 43:349-52 D 12 '24
Temper colors. C. W. Mason. J Phys Chem 28:1233-44 D '24
Ueber die schalenbildung beim temperprozess. P. Oberhoffer and E. Zingg. Stahl & Eisen 44:1197-1200. pl 3 O 2 '24
Use of electric hot-plate for tempering. Mach 31:996 Ag '25; Same. Elec W 86:1005 N 14 '25

TEMPLE anthracite coal company
New Temple anthracite coal co. formed by merger of two independents. Coal Age 26: 371 S 11 '24

TEMPLES
Architecture of the ancient Mayas. S. K. Lothrop. il Arch Rec 57:491-509 Je '25

TEMPLES, Masonic. See Masonic temples

TEMPLETS
Adjustable subgrade templet for 18-ft. concrete pavement. F. M. Balsley. il diag plan Eng N 92:1028-9 Je 12 '24
Combination templet and scale. F. M. Garnett. Eng & Contr (R & S) 64:4-5 Jl 1 '25
Detailing templets for arch brick with pantograph. R. P. Wallis. diag Eng N 93:1044 D 25 '24

TENDONS
Injuries of tendons and their repair. A. Gibson. U S Bur Labor Statistics Bul 385:96-100 '25

TENEMENT houses
Model tenements for wage earners at Bayonne, N.J. il plan Arch Forum 40:213-16 My '24; Same. Eng & Contr (Bldgs) 61: 1387-90 Je 25 '24
Plan model garden tenements to replace slums. il plans Nation's Health 7:42-3 Ja '25
Recent English tenement and school buildings. H. J. Birnstingl. il plans Arch Forum 40: 23-8 Ja '24

See also Apartment houses; Housing; Housing projects

TENNESSEE

See also Electric plants (central stations) Tennessee; Roads—Tennessee

Industries and resources

Let's take a look at Tennessee! M. Thorpe. map Nation's Business 13:37-9 N '25
Some outstanding facts about Tennessee. A. Peay. Manuf Rec 86:413-14; Statistics. 419 pt 2 D 11 '24
Tennessee's manufactures in 1923. Manuf Rec 87:87 Je 11 '25

See also Coal—Tennessee; Coal mines and mining—Tennessee; Mines and mineral resources—Tennessee; Textile industry—Tennessee; Water power—Tennessee; Zinc mines and mining—Tennessee

TENNESSEE electric power company
New organization. P. W. Garrett. map Elec W 84:1137+ N 22 '24
Tennessee electric power company wins. Elec W 83:394 F 23 '24

TENNESSEE evolution controversy. See Evolution controversy

TENNESSEE river
Developing the Tennessee. Elec W 85:940 My 2 '25
Object of the Tennessee river survey. H. C. Fiske. map Manuf Rec 87:69-72 Ap 9 '25
Tennessee river project includes twelve dams. Power 61:752 My 12 '25

TENNIS balls
To launch new tennis ball. Rubber Age 16:320 F 25 '25

TENNIS rackets

Manufacture

Steel the metal for sports. il Iron Age 115: 1829-31 Je 25 '25

TENNIS shoes. See Shoes, Tennis

TENSORS
Eddington's natural unit of the field, and possible relations between it and the universal constants of physics. J. Rice. Philos Mag 6th ser 49:457-63 F '25
Relations between antisymmetric tensors and tensor-densities. P. DuVal. Philos Mag 6th ser 48:917-27 N '24

TEREDOS
Boring mechanism of teredo. R. C. Miller. 80p Univ. of Calif. press, Berkeley '24
Hardy teredo. C: A. Kofoid. il Eng & Contr (Ry) 63:339-42 F 18 '25
Sea water damages structures. Can Eng 46: 163-4 Ja 22 '24
Teredo destroys piles in 2½ months. il Eng N 94:189 Ja 29 '25
Work of teredo difficult to detect. E. Fritz. il Eng N 95:503 S 24 '25

See also Marine borers

TERMINAL velocity of particles. See Dynamics of a particle

TERMINALS
Cargo moved direct from ship to rail. D. Partridge. il plan Marine R 55:309-11 Ag '25
Courageous civic spirit has built Port Newark, N. J. Dayton. il map Forbes 14:21-4 Ap 12 '24
Cut cost of terminal movement; use inland union freight stations. E. Church. il diag Marine R 55:357-60 O '25
Finds work for idle fleet; Port Newark. il Marine R 54:418-21 N '24
Fundamentals of terminal building. R. W. Putnam. W Soc E J 30:177-84 Ap '25
How losses were changed into profits; Boston's army base dock. H. R. Simonds. il Marine R 55:339-43 S '25
Large terminals and cold-storage warehouse at Duluth. il diags plan Eng N 92:324-7 F 21 '24
Mechanical handling at rail and water terminals. G: Bulkeley. bibliog il diags plan Cassier's Ind Management 12:92-9 Ja '25
Der neubau des Königsberger handels- und industriehafens. D. Kutschke. il diags plan Zeit Ver Deutsch Ing 68:1257-62 D 6 '24
New Pacific terminals are efficient. R. C. Hill. il Marine R 55:273-4 Jl '25
New York terminal plan proposed by Port authority. Ry R 76:269-70 F 7 '25
Plan railway and ship terminals for Seattle, Wash. maps Eng N 94:600-2 Ap 9 '25
Rail and water terminal and channel improvement planned at Richmond. Eng N 95:515 S 24 '25
Railway and marine terminals: 1924 projects. Eng N 94:86-9 Ja 8 '25
Realization of a new character of port economy; New Orleans co-ordinates rail, water and highway transportation. W. Parker. il Marine Eng 29:481-4 Ag '24
Relieving pressure on the port; the Kenna terminal. D. M. Edwards. il Am Ind 26:15-19 S '25
Review of Toronto harbor development. plan Can Eng 48:505-7 My 19 '25
River-and-rail freight terminal at Memphis, Tenn. G: W. Foster. il diags plan Eng N 93:696-8 O 30 '24
River-rail terminal. J. A. Pollak. Am Soc C E Pro 51:1674-6 O '25
Terminal development at Mobile, Ala. D: Holt. Eng & Contr (Ry) 62:644 S 17 '24
Terminal drayways and approaches. H. McL. Harding. plan Eng & Contr (Ry) 61:642-4 Mr 19 '24
Water-borne commerce of the Chicago region and its requirements. E. O. Griffenhagen. flow chart il map W Soc E J 30:185-203 Ap '25
Weakest link in transportation. E. C. Church. il Marine R 55:50-4 F '25
Work starts on port development at Mobile, Alabama. A. C. Davis. diag plan Eng N 94: 1024-5 Je 18 '25

See also Electric railroads—Terminals; Ferry terminals; Freight handling; Harbors; Locomotive terminals: Motor bus lines—Terminals; Ports; Railroads—Terminals; Street railroads—Terminals; *also* Subdivision Harbors under names of cities, e.g. New York (city)—Harbor

TERMINALS (electric cables). See Electric cables—Terminals

TERMINOLOGY

See subdivisions Dictionaries and Terminology under various subjects, e.g. Automobiles—Terminology; Business—Dictionaries: Concrete—Terminology; Heat—Terminology; Lighting—Terminology; Paper—Terminology; Steel, Heat treatment of—Terminology; Testing—Terminology

TERMITES
Building damaged by white ants. W. P. Flint. Eng & Contr (Bldgs) 64:714-15 S 23 '25

TERMITES—*Continued*
Preservation of wood from the attacks of termites. G. W. Herrick. Sibley J 37:130+ Je '23
Protecting wood from white ants. Eng & Contr (Ry) 63:141 Ja 21 '25
Termites in wood destruction. T. E. Snyder. il Am Inst Arch J 13:353-4 S '25

TERMITES, Fossil
Lower eocene termite from Tennessee. R. L. Collins. il Am J Sci 5th ser 9:406-10 My '25

TERPENES
Higher terpene compounds; selinene and the sesquiterpene alcohols of celery-seed oil. L. Ruzicka and M. Stoll. Chem Soc J 124 pt 1:1216 D '23
Recherches récentes sur la série des polyterpènes; abstract. Chimie & Ind 13:630-1 Ap '25
Sulfur-terpene substitution compounds. W: B. Pratt. Am Inst Chem Eng Trans v 15 pt 1:367-78 '23; Same. Ind & Eng Chem 15: 178-80 F '23; Discussion. Am Inst Chem Eng Trans v 15 pt 1:378-80 '23

TERPINEOL
Resolution of α-terpineol. A. T: Fuller and J. Kenyon. Chem Soc J 125:2304-16 N '24

TERRA cotta
Abstracts of papers, terra cotta division, A.C. S. Brick & Clay Rec 66:355-6 Mr 3 '25
Address on terra cotta. W: H. Powell. Am Cer Soc J (Bul) 7:255-7 Jl '24
Architectural terra cotta. Eng N 93:160 Jl 24 '24
Architectural terra cotta bookings. Survey of Cur Business 38:52 O '24
Architectural terra cotta investigations. Am Arch 128:139 Ag 12 '25; Same. Eng & Contr (Bldgs) 64:205 Jl 22 '25; Same. Am Cer Soc J (Bul) 8:408, 410 Ag '25
Better terra cotta slabs. F. B. Allen. Am Cer Soc J 8:101-4; Discussion. 104-7 F '25
Clay preparation. T. A. Klinefelter. Am Cer Soc J 7:509-10 Jl '24
Color in architecture. F: S. Laurence. 60p National terra cotta soc., New York '24
Comparison of methods used in estimating maturing of terra cotta. L. Anderson. Am Cer Soc J 8:762-7 N '25
Dollar for every terra cotta crack. il Brick & Clay Rec 66:746-8 My 12 '25
Investigation of terra cotta work at the Bureau of standards. E. V. Eskessen. Am Cer Soc J (Bul) 7:158-61 My '24
Making terra-cotta cornices and parapets structurally safe. Eng N 93:511 S 25 '24
Portland cement and terra cotta. Survey of Cur Business 39:102-3 N '24
Safe and unsafe settings of ornamental terra cotta. G. F. Meyne. Eng & Contr (Bldgs) 62:697-700 S 24 '24
Study of slips for standard finish terra cotta (cones 4-5). H. E. Davis and J. S. Lathrop. diags Am Cer Soc J 8:23-8 Ja '25
Terra cotta body investigation. B. S. Radcliffe. bibliog Am Cer Soc J 7:834-7; Discussion. 837-41 N '24
Terra cotta body shrinkage. P. G. Larkin and E. R. Curry. Am Cer Soc J 8:113-14 F '25
Terra cotta in architectural design. F. S. Laurence. Am Cer Soc J 8:79-83 F '25
Terra cotta of the Italian renaissance. 200 pl National terra cotta society, New York '25

See also Pulsichrometer

Cost

Fuel costs for burning clay ware. Brick & Clay Rec 64:650-1 Ap 29 '24

TERRAZZO floors. See Floors, Terrazzo

TERRE HAUTE, Indiana

Architecture

Friendly Inn, a building for the organized charities of Terre Haute, Ind. Am Arch 127: 511 Je 3 '25

TERRE HAUTE, Indianapolis & Eastern traction company
Securities. Moody's Inv Serv 16:424; 17:47 N 20 '24, F 5 '25

TERRY, Franklin Silas, 1862-
Sketch. por Elec W 83:1170 Je 7 '24

TESTIMONIALS in advertising. See Advertisements—Testimonials

TESTING
New facts on steel, cement, brick and paint. Eng N 93:64-7 Jl 10 '24
Recent additions to tools for research. Ind & Eng Chem 17:1014-17 O '25
Report of committee E-1 on methods of testing. Am Soc T M Pro 24 pt 1:697-717; Discussion. 725-35 '24
Die statische und dynamische elastizitätsgrenze im materialprüfungs- und konstruktionswesen. G. Welter. diags Zeit Ver Deutsch Ing 68:9-11 Ja 5 '24
Test of products for research and sales promotion. il Management & Adm 8:298 S '24
Testing of resistance to tearing. H. L. Heathcote. Soc Chem Ind J (Chem & Ind) 44:109-10 Ja 30 '25
Tests that insure a better product. il Factory 31:758-9 D '23

See also Brinell hardness test; Dynamometer cars; Electric testing; Engineering laboratories; Gas testing; Hardness; Impact; Laboratories; Magnetic testing; Oil testing; Sampling; Strains and stresses; Strength of materials; Testing machines; *also* subdivision Testing under various subjects, e.g. Automobile engines—Testing; Automobiles—Testing; Boilers—Testing; Cement—Testing; Chemicals—Testing; Coal—Testing; Concrete—Testing; Concrete, Reinforced—Testing; Gas and oil engines—Testing; Metals—Testing; Rails—Testing; Steel—Testing; *also* American society for testing materials; United States—Standards, Bureau of

Terminology

Tentative definitions of terms relating to methods of testing. Am Soc T M Pro 24 pt 1:1109-14 '24

TESTING laboratories
Detroit conducts test laboratory. il Elec Ry J 63:1015-18 Je 28 '24
Laboratory equipment devised to test drilling tools. P. Wagner. il Nat Pet N 17:43+ Ja 14 '25

See also Gas laboratories; Physical laboratories

TESTING machines
Amsler machine for making fatigue tests. il Iron Age 114:1482 D 4 '24
Die drehschwingungsmaschine, eine neue prüfmaschine zur gütebestimmung von werkstoffen. O. Föppl. diags Zeit Ver Deutsch Ing 68:203-5 Mr 1 '24
Les essais de fatigue des métaux et les machines Amsler pour leur exécution. il diags Génie Civil 87:64-6 Jl 18 '25
Festigkeitseigenschaften von eisen und stahl in der kälte und wärme. W. Oertel. il diags Stahl & Eisen 43:1395-1404 [bibliog. p. 1403-4] N 8 '23
Field of magnetic testing broad. il Iron Tr R 75:663-5 S 11 '24
Hydraulic testing machine. il Mach 31:558 Mr '25
Inauguration of 100-ton tensile testing machine at Birmingham. Gas J (Lond) 165:563-5 Mr 5 '24
Inexpensive device for making crushing tests on sewer pipe. A. Wells. il Eng N 95:516-17 S 24 '25
Krause testing machines. il Am Mach 62:558-9 Ap 2 '25
Maschinen und vorrichtungen für dauerversuche. R. Mailänder. diags Stahl & Eisen 44:624-9 My 29 '24
Neuere maschinen für die baustoffprüfung. H. Hecht. diags Zeit Ver Deutsch Ing 68:1250-1 N 29 '24

TESTING machines—*Continued*
New machines for testing cement and concrete material. il Eng & Contr (Equip R) 63:923-4 Ap 29 '25
Notes on the testing of metal strip. L. Aitchison and L. W: Johnson. diags Iron & Steel Inst J 109:433-47, pl 26; Discussion. 448-9 no 1 '24
Pendel-härteprüfer. E: G. Herbert. il Stahl & Eisen 44:855-6 Jl 17 '24
Pendulum bearing tester. L. C. Price. Sibley J 39:239-41 Ja '25
Pile temper-testing machine. R. G. Johnston. il Brass W 19:353-5 N '23
Pittsburgh power-operated Brinell tester. il Am Mach 61:594 O 9 '24
Science at the British Empire exhibition. diags Engineering 119:692-4 My 30''24
Some endurance tests of metals. H. W. Gillett and E. L. Mack. il diags Am Soc T M Pro 24 pt 2:476-544 '24
Tension testing of thin plate metals. N. S. Otey. il diag Iron Age 113:1008-9 Ap 3 '24
Tension tests of thin gage metals and light alloys. H. A. Anderson. il Am Soc T M Pro 24 pt 2:990-1003; Discussion. 1004-11 '24
L'usure des métaux; machine d'essais d'usure Amsler. P. Breuil. il Génie Civil 87:150-2 Ag 15 '25
Vickers diamond hardness testing machine. il diag Engineer 138:286-7 S 12 '24

See also Accelerometer; Decelerometer; Dynamometer; Gear testing machines; Herbert pendulum; Textile testing machines

Bearings

Tests of ball bearings for rotating-beam fatigue machines. L. B. Tuckerman and C. S. Aitchison. il Am Mach 61:369-70 S 4 '24; Discussion. H. Styri. 62:604 Ap 16 '25

TESTS, Ability. See Ability tests

TETRA-alkyl-succinimides
Tetra-alkyl-succinimides and their pharmacological action. A. W. Dox. Am Chem Soc J 47:1471-7 My '25

TETRABROMOINDIGO. See Calico printing

TETRACARNIT
Colour solvents and their application to textile fibres. A. E. Woodhead. Soc Dyers & Col J 40:74-7; Discussion. 77 Mr '24

TETRACHLORETHANE
Tetrachlorethane poisoning. Can Chem & Met 8:245 O '24
Toxicity of industrial solvents. E. Kohn-Abrest. Chem Age 32:199-200 Ap '24

TETRACHLOROIODIDES
Tetrachloroiodides of organic bases. F: D. Chattaway and F. L. Garton. Chem Soc J 125:183-8 Ja '24

See also Diazonium tetrachloroiodides

TETRAETHYL lead
Danger of lead poisoning from ethyl gasoline. Y. Henderson. Safety Eng 49:219-20 My '25
Discontinue sale of tetraethyl lead. Automotive Ind 52:835 My 7 '25
Estimation of lead tetraethyl in motor spirit. S. F. Birch. Inst Pet Tech J 10:816-17 N '24
Ethyl gas danger slight, tests show. Automotive Ind 52:207 Ja 29 '25
Hazard in handling tetraethyl lead and ethyl gasoline. Safety Eng 48:199-200 N '24
Stop tetra-ethyl lead distribution pending conference on hazard. P. Truesdell. Nat Pet N 17:17-18 My 6 '25
Suggested mechanism for antiknock action. G. L. Wendt and F. V. Grimm. diag Ind & Eng Chem 16:890-3 S '24
Tetra-ethyl lead. Chem Age 32:446; 33:17 N '24, Ja '25
Tetraethyl lead a menace to garage workers. C. M. Salls. Nation's Health 7:169-71 Mr '25; Abstract. Monthly Labor R 20:1130-1 My '25
Tetra-ethyl lead as an anti-detonator in high-compression engines. H. K. Thomas; W. R. Ormandy. Automobile Eng 14:308-11 O '24
Tetraethyl lead; editorial. Ind & Eng Chem 16:1212-13 D '24
Tetra-ethyl lead figures in fatalities in New Jersey plant. Chem & Met Eng 31:712-13 N 3 '24; Oil Paint & Drug Rep 106:19 N 3 '24
Tetraethyl lead poison hazards. T: Midgley, jr. Ind & Eng Chem 17:827-8 Ag '25; Same. Chem Age (Lond) 13:197-8 Ag 22 '25; Excerpt. Pet Age 16:52+ S 1 '25
Tetraethyl lead poisoning; abstracts. Monthly Labor R 20:401-2 F '25; Safety Eng 49:146 Ap '25
Tetraethyl of lead. Mech Eng 47:598-9 Jl '25

See also Gasoline—Ethyl mixtures

TETRAETHYLMETHANE. See Diethylpentane

TETRAHYDROBERBERINE
Synthetical experiments in the *iso*quinoline group. R. D. Haworth and W: H: Perkin, jr. Chem Soc J 127:1448-53 Je '25

TETRAHYDROCARBAZOLE
Derivatives of acridone and tetrahydrocarbazole. W. H. Linnell and W: H: Perkin, jr. Chem Soc J 125:2451-60 N '24
Derivatives of tetrahydrocarbazole. W: H: Perkin, jr. and G: C. Riley. Chem Soc J 123:2399-2408 O '23
Vinyl derivatives especially of carbazole and tetrahydrocarbazole and their behaviour with acids. G: R. Clemo and W: H: Perkin, jr. Chem Soc J 125:1804-14 S '24

TETRAHYDROQUINOLONE
Synthesis of 4-tetrahydroquinolone and a new synthesis of 4-methoxyquinoline. G: R. Clemo and W: H: Perkin, jr. Chem Soc J 125:1608-22 Ag '24

TETRAHYDROXYBENZOPHENONE
Preparation of 2:4:2':4'-tetrahydroxybenzophenone. J: B. Shoesmith and J: Haldane. Chem Soc J 125:113-15 Ja '24

TETRAMETHYL galactonolactones
Constitutional studies in the monocarboxylic acids derived from sugars; the isomeric tetramethyl galactonolactones and trimethyl arabonolactones. J: Pryde, E. L. Hirst and R. W: Humphreys. Chem Soc J 127:348-57 F '25

TETRAMETHYL galactose
Amylene—and butylene-oxidic forms of tetramethyl galactose. W. N. Haworth, D: A. Ruell and G: C. Westgarth. Chem Soc J 125:2468-74 D '24

TETRAMETHYL thiuram disulfide
Modern compounding ingredients. J: M. Ball. Rubber Age 18:92-3 N 10 '25

TETRAMETHYLAMMONIUM hydroxide
Velocity of reaction in mixed solvents; the influence of the base on the velocity of saponification of esters in methyl alcohol-water mixtures. W. I. Jones, H. McCombie and H. A. Scarborough. Chem Soc J 125:2590-5 D '24

TETRAMETHYLGLUCOSE
Studies of dynamic isomerism; experiments on the arrest of mutarotation of tetramethylglucose. T: M. Lowry and E. M: Richards. Chem Soc J 127:1385-1401 Je '25; Summary, with discussion. Soc Chem Ind J (Chem & Ind) 44:282-3 Mr 13 '25

TETRANITROMETHANE
Preparation of tetranitromethane from nitro-aromatic hydrocarbons. P. V. McKie. Soc Chem Ind J 44:430-1 Ag 14 '25

TETRYL
Heats of fusion of trinitrotoluene, tetryl and picric acid. W: H. Rinkenbach and R. E. Hall. Am Chem Soc J 46:2637-9 D '24
Specific heat and thermal diffusivities of certain explosives. A. M. Prentiss. il diags (Reprint & Circ. Ser. 52) 44p '24 25c National research council, 1701 Massachusetts av, Washington, D.C.
Specific heats of trinitrotoluene, tetryl, picric acid and their molecular complexes. C. A. Taylor and W: H. Rinkenbach. Am Chem Soc J 46:1504-10 Je '24

TEXAS
West Texas. T. H. Price and others. il Comm & Fin 14:773-86 Ap 22 '25

See also Coal—Texas; Cotton—Texas; Cotton manufacture—Texas; Electric railroads—Texas; Floods—Texas; Geology—Texas; Lumber trade—Texas; Mines and mineral resources—Texas; Motor bus lines—Texas; Petroleum—Texas; Petroleum industry and trade—Texas; Potash—Texas; Railroads—Texas; Roads—Texas; Street railroads—Texas

Description and travel

West Texas mountains a wonderland of beauty. V. Prather. il Manuf Rec 86:67-78 S 25 '24

Industries and resources

King cotton made to yield heavier tribute in Texas. G. A. Nichols. Ptr Ink 131:73-4+ Je 25 '25

Texas. P. M. Neff. Manuf Rec 86:420; Statistics. 424 pt 2 D 11 '24

Texas manufactures for 1923. Manuf Rec 87: 92 My 14 '25

TEXAS and Pacific railroad
Texas & Pacific in promising position. map Ry Age 78:273-5 Ja 24 '25

TEXAS centennial exposition
Texas centennial exposition. Comm & Fin 13: 225 Ja 23 '24

TEXAS company
Operating report shows greater efficiency attained. R. B. Stafford. Nat Pet N 17:64+ My 27 '25

Texas company increases financial strength in 1924. R. B. Stafford. Nat Pet N 17:84+ Ap 1 '25

TEXAS gulf sulphur company
Facts for the stockholder. Eng & Min J 117: 791 My 10 '24

TEXAS independent oil men's association
Texas jobbers and refiners organize in enthusiastic meeting. J. C. Chatfield. Nat Pet N 15:28+ N 28 '23

TEXAS interurban railway
Steam line in Texas electrified to furnish interurban service. B. F. Cooke. il map Elec Ry J 65:647-52 Ap 25 '25; Same cond. Gen Elec R 28:237-42 Ap '25

TEXAS power and light company of Dallas, Texas
Cost of accidents in the Texas power and light company. il chart Safety Eng 48:11-13 Jl '24

TEXAS technological college, Lubbock, Texas

Textile department

Texas technical college opens large textile department. il Textile World 68:2314+ O 17 '25

TEXON oil and land company
Stockholders in Texon oil & land co. question latest stock issue. P. Wagner. Nat Pet N 17:41-2+ My 13 '25

TEXTILE associations
High spots in trade association work in 1924. Textile World 67:856-8 F 7 '25

Textile society journals recently founded. Textile Inst J 15:P543-4 O '24

TEXTILE chemistry
Application of colloidal chemistry to textile problems. A. A. Claflin. Am Dyestuff Rep 13:541-4+ Ag 25 '24

Chemicals used in the textile industry. F: A. Hayes. Textile World 68:2171+ O 10 '25

Chemistry—an aid to the knitter. Am Dyestuff Rep 13:209-11 Ap 7 '24

Chemistry and physics of the wool fibre. F: A. Hayes. Textile World 68:2803+ N 7 '25

Developments in cellulose chemistry and their application to the textile industry. H. Hibbert. Am Dyestuff Rep 13:219-24; Discussion. 224-6 Ap 7 '24

Emulsions in the textile industry. K. Linder. Am Dyestuff Rep 13:212+, 252 Ap 7-21 '24

Importance of chemistry in textile industry shown at meeting of Society of chemical industry. Am Dyestuff Rep 12:921-3 D 17 '23

International society of textile chemists annual meeting, Zürich, May 17-20. Soc Dyers & Col J 41:251-3 Jl '25

New textile chemicals. Textile Col 46:720-1 N '24

Report of papers relating to textile chemistry read at the Wembley exhibition, June 11, 1924. Color Tr J 15:145-8 N '24

Vegetable fibrous materials. J. Huebner. Soc Dyers & Col J 41:60-9 F '25; Same. Am Dyestuff Rep 14:181-6+ Mr 23 '25

See also Bleaching; Cotton—Analysis; Dyes and dyeing—Chemistry; Retting; Sizing (textiles); Soap, Textile; Textile fabrics—Analysis; Textile finishing; Wool scouring

TEXTILE chemists
Chats with the textile chemist. J. M. Mathews. Textile World 68:1164+ Ag 29 '25

Non-chemical problems of a textile chemist. H. W. Eastman. Am Dyestuff Rep 14:139-40 Mr 9 '25

TEXTILE color card association
Annual meeting, New York city, Feb. 18. Color Tr J 16:89-90 Mr '25

Annual report of the Textile color card association of the U. S. for fiscal year ending October 31, 1924. M. H. Rourke. Color Tr J 16:76-8 Mr '25

TEXTILE design
Advanced textile design. W: Watson. 2d ed. 467p Longmans '25

Art applied to woven fabrics. J. H. Dearle. Textile World 64:3035+ N 17 '23

Block prints from India for textiles. A. B. Lewis. 24 pls Field museum of natural history, Chicago '24

Catalogue of early medieval woven fabrics. A. F. Kendrick. 73p Victoria and Albert museum, South Kensington '25

Designing men's wear fabrics. il Textile World 66:1311 S 6 '24

Manufacture of printed fabrics. G: Rice. diags Color Tr J 16:114-16 Ap '25

Popular weaving and embroidery in Spain. M. Byne. 60p W. Helburn, inc., New York '24

Preparing for sample ranges. Textile World 67:1693+ Mr 7 '25

Use of rayon in woven fabrics. T: Brough. il Textile World 67:2847+ Ap 25 '25

See also Tapestry

TEXTILE education
Education of textile salesmen. Textile Inst J 16:P305-11 O '25

Proposes college textile courses. Textile World 68:1154, 1489 Ag 29, S 12 '25

Textile training open to all; broad program in Parker School district, Greenville, S. C. il Textile World 68:1333 S 5 '25

See also Textile schools; *also* Texas technological college—Textile department

TEXTILE fabrics
Chemical preservation of textiles. Chem Age (Lond) 13:397 O 17 '25

Crepe textures in rayon. il Textile World 67:4009 Je 20 '25

Discussion on textiles. Soc Chem Ind J (Chem & Ind) 43:1106-9 N 7 '24

Elastic and non-elastic narrow fabrics. S: Brown. 75p Bragdon, Lord & Nagle co., New York '23

Fabric style forecast. E. Pierce. Textile World 68:2035-6 O 3 '25

Fashions and fabrics. A. F. Barker. Textile Inst J 16:P97-102 Ap '25

Furnishing and upholstering fabrics. H. Woodman. Textile Inst J 15:P263-5 Jl '24

Historic textile fabrics. R: Glazier. 119p Scribner '23

How to know textiles. C. P. Small. 374p Ginn '25

Laundry research and the textile industry. G: H. Johnson. Textile World 66:863-4+ Ag 16 '24

Lustre and its determination. I. Ginsberg. Textile Col 47:96-8 F '25

TEXTILE fabrics—*Continued*

Manufacture of textile fabrics—yarns to fabrics. J: Crompton. il Textile Inst J 15:P291-317; Discussion. P317-21 Ag '24

Measurement of luster on textile materials. H. Schulz. diag Color Tr J 16:21-2 Ja '25

Measuring luster of fabrics. H. Schultz. diags Textile World 66:1569+ S 20 '24

Practical measurements of sheen. H. S. Busby. diags Textile World 67:2313+ Ap 4 '25

Principles of the construction of fabrics for particular purposes. H. B. Heylin. Textile Inst J 16:P1-2 Ja '25

Rot-proofing fabrics. Chem Age 32:205 Ap '24

Specialties lead women's fabrics for 1924. H. Volka. il Textile World 65:748-50 F 2 '24

Supplying rubber manufacturers' textile needs. R. C. Kelley. il Textile World 66:1415-16 S 13 '24

Textiles and costumes among the peoples of the ancient Near East. H: F: Lutz. 207p G. E. Stechert & co., New York '23

Use of rayon in woven fabrics. T: Brough. il Textile World 67:2847+ Ap 25 '25

Varied silk fabrics leaders for spring season. L. McDougall. il Textile World 65:1299-1300 F 16 '24

Weathering of cotton and wool with special reference to the action of bacteria. S. R. Trotman and R. W. Sutton. Soc Chem Ind J (Chem & Ind) 43:226 F 29 '24

Woman's institute library of dressmaking. 267p Woman's inst. of dom. arts and sciences, Scranton, Pa. '23

See also Airplane fabric; Bengaline; Blankets; Bleaching; Brattice cloth; Color in the textile industries; Cotton fabrics; Crepe; Crêpe de chine; Degumming (textile); Drapery; Dress goods; Dry goods; Duck (textile); Fabrikoid; Felt; Fireproofing of textiles; Fulling; Glove fabrics; Khaki; Knit goods; Lace fabrics; Laundry; Linen; Luster; Marquisette; Milanese cloth; Mildew; Mohair; Net; Oilcloth; Paper textiles; Plush; Rubber fabrics; Rugs; Satin, Indian; Shoddy; Silk; Silk, Artificial; Singeing of textiles; Sizing (textiles); Tapestry; Textile fibers; Textile finishing; Textile industry; Textile research; Tire fabrics; Underwear; Upholstery; Waterproofing of textiles; Woolen and worsted fabrics; Woolen and worsted manufacture; Worsted

Analysis

Detection and estimation of cotton in mixtures. B. F. Wadsworth. Textile Col 45:443-6, 582-6, 722-5, 792-6; 46:370-3 Jl, S, N-D '23, Je '24

Improving alkali test for cotton-wool mixes. A. F. Hedrick. Textile World 67:3725+ Je 6 '25

Testing fabrics for acid. Textile Col 47:176 Mr '25

Wool and cotton in unions. C. F. Green. Textile Col 47:311-12 My '25

Cleaning

See Cleaning

Identification

Fabric identification for consumer. il Textile World 68:1026 Ag 22 '25

Inspection

Patent portable cloth counting glass. il Textile World 68:507 Jl 25 '25

Moisture content

Design, construction, and use of a constant humidity room. R. G. Parker and D. N. Jackman. bibliog il diags plan Soc Chem Ind J 44:223-33 My 15 '25

See also Textile fibers—Moisture content

Stains

See Stains

Testing

Committee D-13 first of A.S.T.M. to meet in South; sessions at Greenville, S.C., Oct. 5-6. Textile World 68:2155-8+ O 10 '25

Constant load rate testing machine for textiles. G. B. Haven. il diags Am Soc T M Pro 23 pt 2:640-54 '23; Abstract. India Rubber W 69:157-8 D '23

Directions for the study of unvarnished textile fabrics (including cloth, tape, webbing and yarn). diags Inst E E J 63:133-46 Ja '25

Lanasetoscopio: new apparatus tests textiles by electricity. diag Textile World 65:3961 Je 14 '24

Method of testing knitted fabric. F. R. McGowan and C. H. Hamlin. Textile World 67: 3285+ My 16 '25

Recent textile research at M.I.T. G: B. Haven. Textile World 65:2994+; Discussion. 2967+ My 3 '24

Rejto method of testing cloths. J. Bercsi. diags Textile World 67:2992-3 My 2 '25

Specifications for constructing and operating heat-transmission apparatus for testing heat-insulating value of fabrics. P. D. Sale. il diags U S Bur Stand Tech Pa 269: 595-607 '24

Strength and unit weight. C. J. Burkley. il Textile World 65:1999+ Mr 22 '24

Testing with the Mullen tester. C. J. Burkley. il Textile World 65:95+ Ja 5 '24

Useful test for fabric strength. C. J. Burkley. Textile World 66:483+ Jl 26 '24

Utility of the index value as applied to fabrics. C. J. Burkley. Textile Inst J 14:T329-31 O '23

See also Cotton fabrics—Testing; Duck (textile)—Testing; Penetrometer; Textile fibers—Testing; Textile testing machines

TEXTILE fabrics, Effect of light on

Action of light on textiles. G. Barr. Color Tr J 15:176-7 D '24

TEXTILE fibers

Combustible fibers. Textile World 65:3177+ My 10 '24

Effect of hard water on fibres. il Textile World 65:231 Ja 12 '24

General morphology of vegetable fibers. L: Savaron. il Color Tr J 14:19-22, 199-202 Ja, Je '24

Influence of micro-organisms in the weathering of wool and cotton. S. R. Trotman and R. W. Sutton. il Soc Chem Ind J 43:190-2 Je 13 '24; Same. Soc Dyers & Col J 40:304-6 S '24

Manufacture of textile fabrics: fibres to yarns. A. B. Shearer. Textile Inst J 15: P287-91 Ag '24

Peculiarities in dyeing due to fiber structure. J. M. Matthews. Color Tr J 14:93-7 Mr '24

Physical properties of textile fibers in relation to the general colloid theory; abstracts. S. A. Shorter. Color Tr J 15:178-9 D '24; Soc Dyers & Col J 41:141-2 Ap '25

Plasticity of cotton and other materials. F: T: Peirce. il diags Textile Inst J 14:T390-413 N '23; Abstract. Soc Dyers & Col J 40: 57-8 F '24

Reflection of light from lustrous materials. W: S. Denham and T: Lonsdale. il diags Textile Inst J 15:T453-63 O '24

Seed hairs of the milkweed. A. W. Schorger. Ind & Eng Chem 17:642 Je '25

Story of Sydney Smith Boyce's career in developing ozone fibre. il Textile World 65: 1592 Mr 1 '24

Study of flax and kindred fibres. G. O. Searle. bibliog il Textile Inst J 15:T371-84 Jl '24

Survey of the textile fibres of plant origin produced within the Empire. J. S. M. Ward. Textile Inst J 16:P2-16 Ja '25

Survey of the textile fibres of the Empire—colonial exhibits at Wembley. Textile Inst J 15:P258-62, P409-15, P485-91, P536-41 Jl-O '24

Textile classification of vegetable fibers. L: Savaron. Color Tr J 15:19-22 Jl '24

Textile fibres as turgoids. E. Justin-Mueller. Soc Dyers & Col J 41:74 F '25

Textile fibers—how to tell them apart. Sci Am 131:118 Ag '24

Textile fibers, their physical, microscopical and chemical properties. J. M. Matthews. 4th ed., enl. 1053p Wiley '24

TEXTILE fibers—*Continued*
Things every textile chemist and colorist should know. Am Dyestuff Rep 13:585 S 8 '24
Three textile raw materials and their manufacture. 127p International acceptance bank, inc., New York '24
To tell the common fibers apart. Am Dyestuff Rep 13:619-20 S 22 '24
Vegetable fibrous materials. J. Huebner. Soc Dyers & Col J 41:60-9 F '25; Same. Am Dyestuff Rep 14:181-6+ Mr 23 '25
Weathering of cotton and wool with special reference to the action of bacteria. Chem Age (Lond) 10:220 Mr 1 '24
Why new fabrics and fibres? H. G. Beede. Textile World 68:2479+ O 24 '25

See also Arghan; Bast fibers; Cotton; Cotton fibers; Degumming (textiles); Flax; Hemp; Jute; Kapok; Mohair; Ramie; Silk; Singeing of textiles; Wool

Moisture content

Conditioning. B. F. Wadsworth. il Textile Col 46:437-42, 506-10, 579-81, 647-9 Jl-O '24
Determination of moisture in various fibers. F. D. Wadsworth. il Textile Col 46:85-8, 235-8, 303-6, 365+ F, Ap-Je '24
Regain, and what it means to manufacturers. A. W. Thompson. Textile World 66:765+ Ag 9 '24
Thermodynamics of water absorption by textile materials. S. A. Shorter. bibliog Textile Inst J 15:T328-36 Je '24; Abstract. Soc Dyers & Col J 40:300-1 S '24

See also Cotton—Moisture content; Wool—Moisture content

Bibliography

Bibliography of papers upon regain in textile materials. C: E. Mullin. Textile Col 47:500-2 Ag '25

Testing

Effect of ultra violet rays. P. Heermann. Textile World 67:4150+ Je 27 '25
Instrument for the ballistic measurement of tenacity. W: S. Denham and W: Brash. diags Textile Inst J 15:T291-304 My '24
Internal mechanics of fibres considered in relation to general colloid theory and technical practice. S. A. Shorter. Soc Dyers & Col J 41:207-16 Je '25
Investigation of the nature of the elasticity of fibres. S. A. Shorter. bibliog il diags Textile Inst J 15:T207-29 Ap '24
Method of grading fibres for uniform results. H. S. Busby. diags Textile World 68:369+ Jl 18 '25
Rejto method of textile testing. J. Bercsi. diags Textile World 67:2859+ Ap 25 '25
Vegetable fibrous materials. J. Huebner. Soc Dyers & Col J 41:68-9 F '25; Same. Am Dyestuff Rep 14:199-200 Mr 23 '25

See also Textile fabrics—Testing

TEXTILE finishing
Aiding the finisher in the textile industry. J: T. Travis. il Gas Age 54:271-2 Ag 23 '24; Same. Am Dyestuff Rep 13:628-9+ S 22 '24
Continuity in operations. Textile Col 47:105-6 F '25
Determination of the value of china clay for finishing purposes. P. Bean. Chem Age (Lond) 10:sup11+ My 17 '24
Dry-finishing steam. diag Textile World 66: 3303+ D 6 '24
Finishing and ornamentation of textile fabrics. J. Huebner. Soc Dyers & Col J 41: 147 Ap '25
Finishing lace and light fabrics. Textile World 67:1509+ F 28 '25
Floor plan for a convenient finishing department. H. D. Martin. Textile Col 47:164-5 Mr '25
Lustre, glaze and brightness in textiles. J: G. Robertson; J: R. Watkins. Textile Col 46: 566-9, 698-700 S, N '24
Machine for treating fabrics with strong sulfuric acid for the production of parchmentized or stiff finished fabrics. R. F. Bacon, C. H. Kidwell and P. H. Bascom. diags Color Tr J 13:211-14 D '23
Ornamenting and proofing fabrics. Am Dyestuff Rep 14:136-7 F 23 '25
Prepared detergents for textile finishing. J. F. Tonn. Am Dyestuff Rep 13:166-9 Mr 10 '24
Schreiner calendering. A. C. Freeman, jr. Textile World 65:3629+ My 31 '24
Textile finishing department problems. H. D. Martin. Textile Col 46:425-8 Jl '24
Weights and measures of the finishing department. H. D. Martin. Textile Col 47:699-700 N '25

See also Cotton finishing; Linen finishing; Luster; Mercerizing; Silk finishing; Sizing (textiles); Waterproofing of textiles; Woolen and worsted finishing

TEXTILE industry
High lights of international textile trade. E: T. Pickard. Textile World 67:836 F 7 '25
International trade in the minor fibers. L. A. Wheeler. U S Bur For & Dom Com Trade Information Bul 289:1-12 '24
Merchanting. H: G. Burgess. Textile Inst J 16:P182-5 Je '25
President Coolidge's address at N.A.C.M. convention. Textile World 67:2525+ Ap 11 '25
Raw materials. Economist 100:sup37-8+ F 14 '25
Some commercial aspects of styles and fashions in the clothing and textile industries. P. T. Cherington. Harvard Business R 2: 421-33 Jl '24
Textile and paper industries related and contrasted. M. S. Griffin. Am Dyestuff Rep 12: 854-5 N 19 '23; Same. Paper Tr J 78:62 Ja 3 '24
Textile distribution problem. H. G. McKerrow. Textile World 67:832-3 F 7 '25
Textile manufacturer, retailer and consumer. R: E. Steed. Am Dyestuff Rep 13:431-4 Je 30 '24

See also Bleaching; Carpets; Clothing trade; Cotton; Cotton manufacture; Cotton trade; Dress goods; Dry goods; Drying apparatus—Textiles; Dye industry; Dyes and dyeing; Flax; Hosiery; Knit goods; Knitting; Lace and lace making; Linen; Paper textiles; Rugs; Silk manufacture and trade; Sizing (textiles); Spinning; Textile design; Textile fabrics; Textile fibers; Textile finishing; Textile machinery; Textile mills; Textile printing; Thread; Weaving; Wool; Wool trade; Woolen and worsted manufacture; Worsted; Yarn

Accounting

See Textile mills—Accounting

Advertising

Linking the laboratory to the consumer's service. L. W. Alwyn-Schmidt. Color Tr J 13: 187-9 D '23
What I found out about "branded" merchandize in a coast to coast survey. L. Allen. Ptr Ink 127:8+ My 15 '24
What's happening in the textile industry? Ptr Ink 132:137-8+ Jl 30 '25

See also Satin—Advertising

Bibliography

Abstracts. Published in monthly numbers of Journal of the Textile institute

Congresses

Official report of proceedings of conference held at the British Empire exhibition, Wembley Park, Whitweek, 1924. 267p Textile inst., Manchester '24

Dictionaries

Illustrated technical dictionaries. A. Schlomann, ed. v. 14-15 500p; 951p Brentano's '25

Exhibitions

Advance details of exhibits at Greenville show. plans Textile World 66:2141-4 O 18 '24
American fabrics featured at "Made in U.S.A." exposition held in conjunction with the Merchandise buyers' fair at Grand Central palace. Textile World 67:1255-6 F 14 '25

TEXTILE industry—Exhibitions—*Continued*
Blackstone Valley mills 2d textile exhibition, Northbridge, Mass., April 22-25. il Textile World 67:2983-4 My 2 '25
Carolinas exposition, 5th, a purposeful show. il Textile World 68:2025-30 O 3 '25
Diversification emphasized at Carolinas show. Textile World 66:1851-5 O 4 '24
Diversification keynote of Southern exposition, New York. Textile World 67:3277-8+ My 16 '25
Garment manufacturers' association 11th annual textile and machinery exposition. Textile World 65:3411-12+ My 24 '24
Garment manufacturers' association 12th annual textile and machinery exposition. Textile World 67:3405+ My 23 '25
Textile features at British Empire exhibition. J. A. Hunter. il Textile World 66:209-11 Jl 12 '24
Textile participation in New England week. il Textile World 66:1673-8 S 27 '24

Statistics

Textile trend and forecast. Textile World 65: 731-3 F 2 '24
Textiles and clothing. Survey of Cur Business 30:58-69 F '24 [continued semiannually]
Textiles entering upswing of a minor cycle. Textile World 67:817 F 7 '25
Trend of business movements; textiles. Published in monthly numbers of Survey of current business
Use and abuse of trade statistics. A. H. Garside. Textile World 65:774-5 F 2 '24; Same. Econ W n s 27:223-5 F 16 '24

Terminology

Misdescription in the textile trades. A. E. Garrett. Textile Inst J 15:P515-21 O '24

Belgium

Brief historical review of Belgium's textile industry. J. Voortman. il Dun's Int R 44: 69-70+; 45:69-70+ F-Mr '25

Brazil

Brazilian textile industry and market. M. E. Cremer. Econ W n s 30:81-3 Jl 18 '25

Canada

Canadian mills hopeful despite depressed year. Textile World 67:1259 F 14 '25

France

Les industries textiles en France et leur outillage en 1923. A. Pawlowski. Génie Civil 83:569-71, 595-8 D 8-15 '23
Status of French textile industry. S. W. Cramer, jr. Textile World 68:2775-6 N 7 '25

Great Britain

Joint meeting of Textile institute and Faraday society. Soc Dyers & Col J 40:243-4 Jl '24
Retail distribution of textiles. S. M. Skinner. Textile Inst J 15:P444-7; Discussion. P448-52 S '24
Survey of the textile fibres of the Empire—colonial exhibits at Wembley. Textile Inst J 15:P258-62, P409-15, P485-91, P536-41 Jl-O '24
Textile export trade, with special reference to countries within the Empire. E. F. Hitchcock. Textile Inst J 15:P453-79; Discussion. P480-3 S '24
Textile fibres and yarns. J: S. M. Ward. 192p [bibliog. p. 171-9] E. Benn, ltd., London; Van Nostrand, N.Y. '24

India

Indian jute mill profits. Economist 98:866-7 Ap 26 '24

Italy

Italian artificial silk industry. E. Humes. Econ W n s 29:335 Mr 7 '25
Progress of textile industries in Italy. Comm M 6:24-31 O '24; Same. Econ W n s 28:512-15 O 11 '24; Same. Color Tr J 15:151-5 N '24

Japan

Remarkable recovery of Japan's cotton textile industry since the earthquake. Econ W n s 27:334-5 Mr 8 '24

Mexico

Mexican cotton textile industry in 1923. T: D. Bowman. Econ W n s 27:443 Mr 29 '24

Poland

Polish progress turns on foreign credits. G. L. Carden. il Textile World 65:4201-2+ Je 28 '24

Russia

Official statement of the progress made by the textile industry in soviet Russia. F. Kilevitz. Econ W n s 28:905-6 D 27 '24
Russian trade precarious under new regime. Textile World 66:983-4 Ag 23 '24
Situation in Russian textile industry. G. L. Carden. Textile World 64:3295-60 D 1 '23

South America

Distribution of American textiles in South America. E. B. Filsinger. Harvard Business R 3:194-203 Ja '25

Tennessee

Chattanooga as a textile center. H. S. Thatcher. Comm & Fin 13:2015-16 O 15 '24

United States

Chattanooga's textile development. D. G. Woolf. il Textile World 68:57-60 Jl 4 '25
Details of textile imports in 1924. Textile World 67:1159+ F 7 '25
Diversification of Southern textile industry. D. G. Woolf. Textile World 65:741-3 F 2 '24
Foreign trade of the United States in textile fibres and products in 1924. Econ W n s 29:190-1 F 7 '25
Growth of industry as shown by 1921 census. H: T. Siebert. Textile World 65:764-7 F 2 '24
Increase in textile imports for year ended June 30. Textile World 68:1683+ S 19 '25
London market for American textiles. H. D. Butler. U S Bur For & Dom Com Trade Information Bul 161:1-16 '23
Manufacturer and retailer; two sides of a question. Nation's Business 13:56+ Jl '25
New England textile situation claimed to be getting in favorable shape. Comm & Fin Chr 121:1296 S 12 '25
The Piedmont—where it's going and how. D. G. Woolf. Textile World 67:3847-8 Je 13 '25
Reasons for unsatisfactory conditions in textiles. V. E. Carroll. Forbes 13:587+ F 16 '24
Textile industry. Nat City Bank p 22-3 F; p 63-4 Ap '25
Textile industry gains slowly. V. E. Carroll. Forbes 16:126-7 My 1 '25
Textile industry in national defense. D. F. Davis. Textile World 67:825-7 F 7 '25
Textile industry in slump. V. E. Carroll. Forbes 14:177+ My 10 '24
Textile industry is again on the up-grade. V. E. Carroll. Forbes 15:293-4 D 1 '24
Textile mill prosperity. Moody's Inv Serv 16:269-70 Jl 10 '24
Textile mill stocks. Moody's Inv Serv 16: 429-30 N 28 '24
Textile world analyst. L: H. Haney. Textile World 67:4161-3; 68:521-3, 1027-8, 1157-8, 1867-8, 2623-4 Je 27, Jl 25, Ag 22-29, S 26, O 31 '25
Total textile imports decrease. Textile World 66:759 Ag 9 '24
What "made in U.S.A." means to textiles. il Textile World 67:866+ F 7 '25

TEXTILE laws and regulations
Branding and labeling bills. L. Cromwell. Textile World 65:478 Ja 26 '24
Protest compulsory labeling of textiles. Textile World 65:1723+ Mr 8 '24
Testimony at hearing favors Lodge bill. Textile World 65:1857-8+ Mr 15 '24
Testimony favors Rogers bill. Textile World 65:2957-8 My 3 '24
Truth-in-fabric bills heard. Textile World 65: 2643-4+, 2761-2 Ap 19-26 '24

TEXTILE machinery
Apparatus for treating fabrics which have been weighted. C. H. Ramsey and A. C. Maskery. diags Chemicals (Dyestuffs sec) 17:6-7 Jl 20 '25

TEXTILE machinery—*Continued*
Continuous loop cloth cooling and conditioning machine. diag Textile World 68:799 Ag 8 '25
Criticism of textile machinery. W. A. Hanton. Textile Inst J 16:P29-33 F '25
Foreign textile machine progress. F. Nasmith. il diags Textile Inst J 16:P169-82 Je '25
Machine for treating fabrics with strong sulfuric acid for the production of parchmentized or stiff finished fabrics. R. F. Bacon, C. H. Kidwell and P. H. Bascom. diags Color Tr J 13:211-14 D '23
Mechanical speed control; automatic control for the Reeves variable speed transmission. il Textile World 64:3141-2+ N '23
Mechanics of textile machinery. W: A. Hanton. 236p Longmans '24
Operating continuous crabs. diag Textile World 65:501 Ja 26 '24
Picker troubles. Textile World 68:1361 S 5 '25
Relation of monel metal to dyeing and textile machinery. J: F. Haerry. Chemicals (Dyestuffs sec) 17:117 N 9 '25
Sorting machine for flax fibre-strands and similar material. J. A. Matthew and G. F. New. il Textile Inst J 16:T197-208 Je '25
Textile machinery and the machine makers. A. J. Holt. Textile Inst J 16:P132-7; Discussion. 137 My '25
Textile machinery mechanisms; the place of electric control in their operation. F. Nasmith. il Electrician 94:230-1 F 27 '25
Textile machinery relatively cheap. Textile World 64:3822 D 29 '23
Textile mill mechanical department. il Textile World 65:2307+, 3165+ Ap 5, My 10 '24
Turblex continuous conditioning machine for fabrics. il Chemicals (Dyestuffs sec) 17:95 O 12 '25
Yankee thrift and southern progress; textile machinery manufacture in the South. R: W. Edmonds. Manuf Rec 87:93-4 Mr 5 '25
Yarn splicing machine. diag Textile World 67:3549+ My 30 '25

See also Bleaching machinery; Braiding machines; Calenders; Carding machines; Cotton machinery; Dyeing machines; Electric driving—Textile mills; Hosiery mills; Knitting machines; Knotters; Looms; Sewing machines; Silk machinery; Sizing machines; Spinning machinery; Teazling machine; Textile printing machines; Textile testing machines; Twisting machines; Woolen and worsted machinery

Exhibitions
British Empire exhibition; textile machines. il Engineering 117:549-50 Ap 25 '24
Garment manufacturers' association 11th annual textile and machinery exposition. Textile World 65:3411-12+ My 24 '24
Garment manufacturers' association 12th annual textile and machinery exposition. Textile World 67:3405+ My 23 '25
6th Southern textile exposition, Greenville, S.C. Textile World 66:2313-14+ O 25 '24
Textile features at British Empire exhibition. J. A. Hunter. il Textile World 66:209-11 Jl 12 '24
Textile machinery exhibition, Manchester, Oct. 2. il diags Engineer 140:374-6, 410-12 O 9-16 '25; Elec R (Lond) 97:675-7. 711-13 O 23-30 '25
Textile machinery in the Palace of engineering. il diags Engineer 138:340-4 S 26 '24

See also Cotton machinery—Exhibitions

Manufacture
Making textile machine parts. H. R. Simonds. il Foundry 52:537-41 Jl 15 '24

Patents
Recent patents. Published in monthly numbers of American dyestuff reporter

Statistics
Active textile machinery. Survey of Cur Business 33:66-9 My '24

TEXTILE mills
Converting a white goods mill into a colored goods plant. H. D. Martin. Textile Col 46: 241-3 Ap '24
Floors for textile mills. il diags Textile World 67:3135+, 3707-8+ My 9, Je 6 '25
Glimpse into the four plants of the Pacific mills. il Ind Eng 82:54-5+ F '24
Mill village developments. E. S. Draper. il Textile World 65:1189+ F 9 '24
New Dobson mill completed. Textile World 65:3817+ Je 7 '24
New mills, enlargements and improvements for 1923. il Textile World 65:1011-57 F 2 '24
New mills, enlargements and improvements for 1924. il Textile World 67:1085-1131 F 7 '25
Sidney Blumenthal & co., inc. R. Hayden. il Textile World 65:1427+ F 23 '24
Steel frame textile mill building with concrete floors. il diags Eng N 95:341-4 Ag 27 '25
Water and its relation to the textile industry. H. L. Tiger. il diags Am Dyestuff Rep 13: 673-86; Discussion. 686-8 O 20 '24
Water softening and the textile industry. L. H. Harrison. il diags Soc Dyers & Col J 41:271-5 Ag '25

See also Carpet factories; Cotton mills; Electric driving—Textile mills; Hosiery mills; Knitting mills; Silk mills; Textile industry; Textile machinery; Textile workers; Woolen and worsted mills; *also* Viscose corporation of Virginia

Accidents
Causes of textile accidents. G. W. Cook. il Nat Safety N 11:23-4 Ja '25
Textile section reports low severity rates. Nat Safety N 10:54 O '24

Accounting
Distribution of power expense. M. Sampson. Textile World 65:1604+ Mr 1 '24
Operation control through a cost system. J: L. Walther. Management & Adm 6:709-14 D '23

Directories
Detailed report of new mills. Textile World 65:1057+; 67:1131+ F 2 '24, F 7 '25

Electric equipment
Les applications de l'électricité aux filatures et tissages. Génie Civil 87:156 Ag 15 '25
Induction motor problem. M. Sampson. Textile World 68:1341-2 S 5 '25
Induction motor problem—controls. M. Sampson. Textile World 68:2787+ N 7 '25
Textile electrification abroad; a continental spinning mill fitted with Oerlikon drives. il Electrician 92:260 F 29 '24

See also Cotton mills—Electric equipment; Textile mills—Power

Employees
College men in textile industries. Am Ind 25:12 Mr '25

See also Textile workers

Equipment
Conveying system at the Winnsboro mills. C: M. Mumford. il Textile World 66:637+ Ag 2 '24
Finding the inside track in selling to the textile industry. C. W. Hamilton. il Sales Management 8:609+ Ap 18 '25
Gas in a textile mill; using three million cubic feet of gas a month in a finishing plant. G. E. DeLoid. il Am Gas J 123:191-2 S 5 '25
Looking forward in the mechanical dept. M. Sampson. Textile World 67:1073-4 F 7 '25
Pumping equipment of textile mills. C: L. Hubbard. diags Textile World 68:71+ Jl 4 '25
Standardization of textile mill lubrication. A. F. Brewer. Textile World 66:3295-7; 67:69-71, 1673+, 2343+, 3139+, 3711+; 68:75+, 663+, 1345+ D 6 '24, Ja 3, Mr 7, Ap 4, My 9, Je 6, Jl 4, Ag 1, S 5 '25

TEXTILE mills—Equipment—*Continued*
Steel belt drives for mills. Textile World 67:2351+ Ap 4 '25
Textile mill mechanical department. il Textile World 64:3305+; 65:79+, 1601+, 2307+; 66:91+, 643+, 1284+ D 1 '23, Ja 5, Mr 1, Ap 5, Jl 5, Ag 2, S 6 '24

See also Drying apparatus—Textiles

Heating and ventilation

Air conditioning in textile mills. A. W. Thompson, ed. 497p Parks-Cramer co., Fitchburg, Boston '24
Dust factor in factory ventilation. C: Bindrich. il diags plans Textile World 64:3309-10+ D 1 '23; Same. Heat & Ven 20:64-5 D '23; Same cond. Factory 31:814+ D '23
Heating systems for textile mills. C: L. Hubbard. diags plan Textile World 67:1681+ Mr 7 '25
How we rid our factory of dust, steam, and fumes; Phoenix hosiery company. C: Bindrich. il Factory 34:986+ Je '25
Les installations d'humidification de l'air dans les industries textiles. diag Génie Civil 85:279 S 27 '24
Sixty tons of ventilation; sheet metal work in the installation of ventilating and exhaust systems in the Phoenix knitting works, Milwaukee, Wis. C: H. Bishop. il Sheet Metal Worker 15:822-4+ N 21 '24

Lighting

Developments in mill lighting. R. A. Palmer Textile World 65:997-8; 67:1081+ F 2 '24, F 7 '25
Gas lighting in the textile industry. E. L. Oughton. il diags Illum Engr 17:66-75; Discussion. 75-8 My '24; Abstract. Gas J (Lond) 166:456-7 My 14 '24
Some problems in the daylight lighting of textile factories. P. J. Waldram. il diags Illum Engr 17:79-86 My '24; Discussion. 17:99-101 Je '24
Value of good lighting. R. J. Waldo. il Textile World 68:1351+ S 5 '25

See also Dyehouses—Lighting; Silk mills—Lighting

Management

Better management pays in textiles. S. E. Thompson and W. E. Freeland. Management & Adm 10:209-12 O '25
Can the textile industry be Fordized? T. P. Gates. Textile World 68:907+ Ag 15 '25
Centralization of quality-color activities of an entire textile business. H. S. Busby. diags plans Am Dyestuff Rep 13:385-92; Bibliography. 392 Je 16 '24
Engineer's field in industrial economics. E. Szepesi. il charts Mech Eng 46:841-8 pt 2 N '24; Excerpts. Textile World 67:77+ Ja 3 '25; Discussion. Mech Eng 47:274-6 Ap '25
Handling colored yarn and remnant stocks. H. S. Busby. Textile World 65:2337+ Ap 5 '24
How the increasing demand for art in textiles affects color-process departments. H. S. Busby. il chart diag Am Dyestuff Rep 13:453-9 Jl 14 '24
Increasing weave room production. Textile World 66:1125+ Ag 30 '24
Making of a section-hand. Textile World 66: 2365+; 67:1828-9+ O 25 '24, Mr 14 '25
Non-chemical problems of a textile chemist. H. W. Eastman. Am Dyestuff Rep 14:139-40 Mr 9 '25
Organizing personnel work in a textile mill. E. C. Gould. Ind Management 68:280-2 N '24
Planning in colored goods mill. Textile World 66:2177+ O 18 '24
Reduction of textile payroll losses. J: F. Sherman. Textile World 65:780-1 F 2 '24
Seasonable work in preparation for winter. il Textile World 66:2521+ N 1 '24
Textile mill mechanical department. Textile World 64:3305+; 65:79+, 1601+, 2307+; 66: 91+, 643+, 1284+ D 1 '23, Ja 5, Ap 5, Jl 5, Ag 2, S 6 '24
Visible management methods increase output. J. M. Cronin and H. F. Van Wye. il Textile World 67:3415-17 My 23 '25
What an overseer should know. Textile World 66:1431+ S 13 '24

See also Bleacheries—Management; Cotton mills—Management; Hosiery mills—Management; Knitting mills—Management

Power

Distribution of power expense. M. Sampson. Textile World 65:1604+ Mr 1 '24
Driving of textile mills; the advantages of electric drive. H. Hall. il Electrician 92: 252-3 F 29 '24
Early textile electrifications in the South. B. S. Havens. il Gen Elec R 28:569-73 Ag '25
Electricity in the textile industry; some notes on conditions in Germany. W. Muhlens. Electrician 93:261 S 5 '24
Executive and his power department. M. Sampson. Textile World 65:2309+, 3803+; 66:1281+, 1867+, 2525+ Ap 5, Je 7, S 6, O 4, N 1 '24
How a textile finishing plant saves steam. H: M. Burke. il chart Power 59:109-10 Ja 15 '24
Improving operation of mill power plants. H. Rowe. il Textile World 67:1074+ F 7 '25
New England textile plant operates on powdered fuel. il diags Power 61:482-4 Mr 31 '25
Oil engine in a woollen mill. il Engineer 137: 264 Mr 7 '24
Operating plan cuts industrial steam loss. H: M. Burke. il diag Power Pl Eng 29:424-7 Ap 15 '25
Power data sheets. F. S. Root. Textile World 66:1873, 3296; 67:73, 1677, 2347, 3141, 3715; 68:77, 659, 1347, 2789, 3385 O 4, D 6 '24, Ja 3, Mr 7, Ap 4, My 9, Je 6, Jl 4, Ag 1, S 5, N 7, D 5 '25
Power for textile mills. C: T. Main. Power 60:243-4 Ag 12 '24
Pulverized fuel installation at Farr Alpaca company, Holyoke, Mass. diags Textile World 67:1679+ Mr 7 '25; Power 61:600-2 Ap 21 '25
Some notes on individually-driven textile machinery. A. Haigh. Elec R (Lond) 97:409-10 S 11 '25

See also Cotton mills—Electric equipment

Safety devices and measures

Does safety work in the textile plant pay? H. Saul. il Nat Safety N 9:21-2 Ja '24
Mental safeguards for the textile worker. H. Saul. il Nat Safety N 10:46+ O '24
Safe methods of boiling starch. Am Dyestuff Rep 14:723-4 N 2 '25
Safety's place in the textile industry. G: H. Van Emburgh, jr. Nat Safety N 12:17-18 N '25
Seasonable work in preparation for winter. il Textile World 66:2521+ N 1 '24

Waste

Textile wastes and stream pollution. E. B. Besselievre. Am Dyestuff Rep 13:743-7; Discussion. 747-53 N 17 '24

Water supply

See Water supply for textile mills

TEXTILE oils
Use of oils in textile work. S. S. Sadtler and E. C. Lathrop. Textile World 67:581+ Ja 31 '25

See also Oleic acid

TEXTILE printing
After-treatment of printed fabrics. diag Am Dyestuff Rep 13:737 N 3 '24
Classic precedent in a decorative art; Toiles de Jouy at the Arden gallery. il Am Arch 126:495-6 N 19 '24
Color in relation to dyeing. J. M. Matthews. Color Tr J 15:138-41 N '24
Color resist printing on sulphur dyestuffs. Am Dyestuff Rep 14:574 Ag 24 '25
Fastness of colors and printing fabrics. I. Ginsberg. Textile Col 47:434-6 Jl '25

TEXTILE printing—*Continued*
Fastness of colors for printing fabrics. L. Lichtenstein. Am Dyestuff Rep 14:533-6 Ag 10 '25
Indigo and its application. P. S. Clarkson. Am Dyestuff Rep 12:892-8 D 3 '23
Lithography applied to textiles. il Textile World 65:3643 My 31 '24
Making up colors for printing. W. Sanderson. Textile Col 47:382-3 Je '25
Manufacture of printed fabrics. G: Rice. il Color Tr J 16:15-16, 56-7, 114-16 Ja-F, Ap '25
Modern vogue of textile printing. Color Tr J 14:147-8 My '24
New fast dyes for printing. Color Tr J 15:171 D '24
New form of soluble indigo and other vat dyes. C: E. Mullin. Textile Col 47:22-7 Ja '25
Notes on the printing of artificial silk goods. R. Sansone. diags Textile Col 47:289-93 My '25
Preparation of ice colors for direct printing. A. Gotthardt. Am Dyestuff Rep 14:75-7 F 9 '25
Principles and practice of textile printing. E. Knecht and J. B. Fothergill. 2d ed., rev. 731p Lippincott '24
Printed linings for weatherproofs. il India Rubber W 69:151-2 D '23
Printing of acetyl cellulose. E. Swindells. Color Tr J 14:163-4 My '24
Symbols in Chinese designs. il Soc Dyers & Col J 39:350-1 N '23
Tapestry yarn printing. L: J. Matos. Am Dyestuff Rep 12:735-8 O 8 '23; Excerpts. Textile World 65:2529+ Ap 12 '24
Use of katanol in cotton goods printing. R: Fischer. Am Dyestuff Rep 13:423-7 Je 30 '24; Abstract. Soc Dyers & Col J 40:123-4 Ap '24
See also Aniline black; Calico printing; Chintz; Silk printing; Textile fabrics

TEXTILE printing machines
Duplex printing machines. R. Sansone. diag Textile World 65:1427 F 23 '24
Making of the copper printing roller. Textile Col 47:309-10 My '25

TEXTILE research
Bureau of standards. G: K. Burgess. Textile World 67:2533+ Ap 11 '25
Cooperative fundamental textile research as a national exigency. W. F. Edwards. Textile World 66:463-4+ Jl 26 '24
Co-operative textile research. L. A. Olney. Am Dyestuff Rep 14:395-7; Discussion. 397-8 Je 15 '25
Fundamental research progress in Great Britain. il Textile World 66:625-6+ Ag 2 '24
Fundamental textile research—how and why; a symposium. Textile World 67:874-82 F 7 '25
Inside story of Ford textile experiments. D. G. Woolf. Textile World 68:2773-5 N 7 '25
Need for fundamental research. J: Bancroft. Textile World 66:2315-16+ O 25 '24
New N.C. textile school. T. H. Stafford. Textile World 67:4140+ Je 27 '25
Physicist in the textile industries. A. E. Oxley. Engineering 116:627-8 N 16 '23
Recent textile research at M.I.T. G: B. Haven. Textile World 65:2994+; Discussion. 2967+ My 3 '24
See also Cotton research; Linen research; Wool research

TEXTILE research institute (proposed)
Notes on fundamental textile research project. W. F. Edwards. Textile World 67: 875-7 F 7 '25
Suggested plan for a research institute. W. F. Edwards. Textile World 66:1271-2 S 6 '24

TEXTILE research institute of Vienna
Textile investigations for everyday needs; Textile research institute of Vienna. F. Schubert. Chemicals (Dyestuffs sec) 17:51+ Ag 17 '25

TEXTILE schools
Chats with the dyer's assistant; the art of dyeing growing in prestige. J. M. Matthews. Color Tr J 16:141-3 My '25
See also Bradford Durfee textile school; Lowell textile school; North Carolina state college—Textile school; Philadelphia textile school

TEXTILE sizing. See Cotton sizing; Sizing (textiles)

TEXTILE society journals
Textile society journals recently founded. Textile Inst J 15:P543-4 O '24

TEXTILE testing machines
Bursting test for knit fabrics. B. H. Foster. il Textile World 67:2309+ Ap 4 '25; Same cond. India Rubber W 72:471 My '25
Constant load rate testing machine for textiles. G. B. Haven. il diags Am Soc T M Pro 23 pt 2:640-54 '23; Abstract. India Rubber W 69:157-8 D '23
Design of an even scale lever roller for testing machines of the pendulum type. S. A. Shorter. Textile Inst J 14:T503-19 D '23
Dynamical theory of the pendulum yarn testing machine. S. A. Shorter and W. J. Hall. diag Textile Inst J 14:T501-7 D '23
New autographic testing machine for yarns and fibres. S. A. Shorter and W. J. Hall. il Textile Inst J 14:T493-500 D '23
New machine for testing porosity. il Textile World 67:197-8 Ja 10 '25
Rejto method of testing cloths. J. Bercsi. diags Textile World 67:2992-3 My 2 '25
Rejto method of textile testing. J. Bercsi. diags Textile World 67:2859+ Ap 25 '25
Strength as a test for linen. C. J. Burkley. Textile World 66:3121+ N 29 '24
Tully's abrasion tester. diag Textile World 68: 915 Ag 15 '25

TEXTILE workers
Protest by President Green of American federation of labor against wage cuts by American woolen co. and other textile interests. Comm & Fin Chr 121:651-2 Ag 8 '25
Textile wages relatively high. Textile World 64:2858 N 10 '23
Wage reductions in New England textile mills effective July 28. Comm & Fin Chr 121:521, 649 Ag 1-8 '25
Work for employes in R. I. mills. Textile World 65:225+ Ja 12 '24
See also Cotton mills—Employees; Knitting mills—Employees: Silk ribbon weavers; Silk weavers; Weavers; Woolen and worsted mills—Employees

TEXTONE
Textone—a new decorative material for gypsum wall board. il Eng & Contr (Equip R) 62:247-8 Jl 30 '24

THALLIUM
Marketing of rare metals and minerals. H. C. Meyer. Eng & Min J 118:287 Ag 23 '24

THALLIUM chloride
Activity coefficient of dilute aqueous solutions of hydrogen chloride, thallous chloride and lead nitrate. M. Randall and A. P. Vanselow. diags Am Chem Soc J 46: 2418-37 N '24

THALLIUM hydroxide
Application of thallium compounds in organic chemistry; thallous hydroxide. R. C: Menzies and E: M. Wilkins. Chem Soc J 125: 1148-52 My '24

THALLIUM selenate
Some double selenates of thallous selenate and the selenates of bivalent metals. L. C. Lindsley and L. M. Dennis. Am Chem Soc J 47:377-9 F '25

THAMES river
Rapid transit proposed on the Thames. Eng N 93:619 O 16 '24

THAWING
Current practice in thawing frozen services and hydrants. F. A. McInnes and J. M. Goodell. Am Water Works Assn J 12:393-7 D '24; Same. Eng & Contr (W W) 63:97-9 Ja 14 '25; Same. Can Eng 49:289-90 S 8 '25

THAWING—*Continued*
How the sixty feet of pipe was thawed out. R. K. Walsh. diags Power 60:951 D 9 '24
Lime for thawing in winter street work. il Am Gas J 122:54 Ja 17 '25
Methods and cost of thawing water services. Eng & Contr (W W) 61:560-2 Mr 12 '24
Radiant heaters keep ice off bus bars. il Power Pl Eng 28:442 Ap 15 '24
Sleet and ice troubles on transmission lines in New England. C. R. Oliver. il diag map Am Inst E E J 44:1171-6; Discussion. 1176-7 N '25
Use oxygen to thaw frozen tap holes. A. Weber. Foundry 53:274-5 Ap 1 '25
Water works distribution systems. W. E. MacDonald. Can Eng 46:308+ Mr 4 '24; Same. Eng & Contr (W W) 62:584-5 S 10 '24; Same. Am Water Works Assn J 13:19-20 Ja '25
See also Sleet; Snow melters; Snow removal

THAWING, Electric
Defrosting frozen meat with electricity. il Elec R (Lond) 97:490-1 S 25 '25
Electric thawing of water services. J. W. Turner. Eng & Contr (W W) 62:58 Jl 9 '24
Thaw frozen water pipes by electricity. F. F. MacWilliams. diags Coal Age 25:438-9 Mr 20 '24
Thawing frozen water pipes with electric current. D. D. Ewing and C. F. Bowman. Purdue U Eng Ext Service Bul 7:1-16 '24; Summary. Eng & Contr (W W) 62:1271-6 D 10 '24
Thawing out frozen water pipes. H. J. Achee. diag Elec W 85:822 Ap 18 '25; Same. Power Pl Eng 29:1063 O 15 '25

THAYER manufacturing company
Organization and methods of the Thayer manufacturing company. J. L. Palmer. Univ J of Business 3:274-304 Je '25

THAYER school of civil engineering
Thayer school of civil engineering. C: A. Holden. J Eng Educ 15:197-201 N '24

THEATER curtains. See Fire curtains—Testing

THEATRE Guild, New York
Guild theatre, New York city. il Arch & Bldg 57:48-9, pl 117-19 Je '25
Guild theater, New York. il plans Arch Forum 43:13-16, pl 1-4 Jl '25

THEATERS
Building to fit; unique theatre rises on irregular lot. il plan Bldg Age 46:76 Ag '24
Chanin 46th street theatre, New York city. Arch & Bldg 57:42, pl 105-6 My '25
Competition for a center for dramatic and musical life, Princeton, New Jersey. il plans Am Arch 126:331-6 O 8 '24
Concrete balcony finished in quick time. il Concrete 27:13 Jl '25
E. F. Albee theatre, Brooklyn, N.Y. il plan Arch & Bldg 57:63-4, pl 154-9 Jl '25
Fortune theatre—a London surface treated concrete facade. il Concrete 25:96 S '24
Guild theatre, New York city. il Arch & Bldg 57:48-9, pl 117-19 Je '25
Guild theater, New York. il plans Arch Forum 43:13-16, pl 1-4 Jl '25
Imperial theater at Fontainebleau. S: E. Gideon. il diags Arch Forum 43:249-54 O '25
Imperial theatre, New York city. Arch & Bldg 56:20+, pl 65-7 Mr '24
Martin Beck theatre, New York city. il Arch & Bldg 57:30-1, pl 78 Ap '25
New York Hippodrome remodeled. Arch & Bldg 56:11, pl 37-40 F '24
New York Theatre guild's new theatre. C. Bragdon. il plans Arch Rec 56:509-16 D '24
Le nouvel opéra municipal de Marseille. A. Bidault des Chaumes. il diags plans Génie Civil 87:121-6 Ag 8 '25
Saucer-shape reinforced concrete floor supports stage. P. Calfas. il diag Concrete 27: 41 Ag '25
See also Fire curtains; Moving picture theaters; Stage mechanism; *also* Eastman theatre and school of music, Rochester, New York

Accidents
Accidents in theaters and moving picture houses. H. Jensen. Safety Eng 49:21-3 Ja '25

Cooling
Cooling of theatres and public buildings. H. J. Macintire. plans Heat & Ven 22:49-52 Je '25
Some notes on theatre refrigeration. chart Heat & Ven 21:80 S '24

Design
Design of seating areas for visibility; a mathematical method of section design. A. B. Randall and E. S. Crawley. Am Arch 125:487-93 My 21 '24

Electric equipment
San Diego theater will be completely electrified. J Elec 51:352 N 1 '23

Failures
See Building failures

Heating and ventilation
Don'ts on theatre ventilation. E. V. Hill. Heat & Ven 22:45-6+ Mr '25
Heating, ventilating and cooling of theatres, churches, auditoriums, etc. C: L. Hubbard. il diags Dom Eng 106:97-102a Ja 5 '24
Why not more theatre ventilation? R. C. Nason. Sheet Metal Worker 16:584-5 S 11 '25

Lighting
Decorative and theatrical lighting. C. Bragdon. Illum Eng Soc 19:888-901 N '24
See also Moving picture theaters—Lighting; Stage lighting

Orchestra lifts
Orchestra lift at the Colony theatre, New York. il Arch & Bldg 57:27 Mr '25

Stage setting and scenery
Are you overlooking showmanship in your selling? lessons from the theatrical manager's problems. L. Mackall. Ptr Ink M 11:41-2+ Jl '25
Producing Shakespeare. C. Bragdon. diags Arch Rec 57:266-75 Mr '25
Stage scenery on the building block principle. il Sci Am 130:95 F '24
Theatre transformed; being a description of the permanent setting by Normal-Bel Geddes for Max Reinhardt's spectacle, The Miracle. C. Bragdon. il diags plans Arch Rec 55:388-97 Ap '24
Theater without a stage; production of the Miracle at the Century theatre. A. A. Hopkins. il Sci Am 130:228-9 Ap '24
Walter Hampden's production of Cyrano de Bergerac. C. Bragdon. il plans Arch Rec 54:553-64 D '23
See also Moving pictures—Setting and scenery; Stage mechanism

THEATERS, Municipal
Community playhouse, Pasadena. M. Craig. il plans Arch Forum 43:77-80, pl 20-1 Ag '25
Community playhouse, Pasadena, Calif.; views and plans. Am Arch 128:pl 288-93 N 5 '25

THEATROPHONE
How the Parisian enjoys opera at home. F: M. Delano. il Sci Am 133:174 S '25

THEFT
Crimes against banks increase. J. E. Baum. Am Bankers Assn J 17:253-4 O '24; Same cond. Econ W n s 28:528-9 O 11 '24
Thieving grows, but why? W. W. Symington. il Nation's Business 13:28-30 Ja '25
Three billions for business crime. R. T. Griebling. Comm & Fin 13:1987-8 O 15 '24
See also Automobiles—Theft; Electricity—Theft; Gas—Theft; Insurance, Theft; Metals—Theft; Railroads—Theft losses; Securities—Theft; Shoplifting

THEFT insurance. See Insurance, Theft

THEOBROMINE
Distribution of theobromine during the fermentation of cacao. A. W. Knapp and R. V. Wadsworth. Soc Chem Ind J 43:124-6 Ap 25 '24

THERAPEUTICS
See Chemotherapy

THERAPEUTICS, Physiological
Physiotherapy brings relief to many types of cases. R. B. Bettman. il Nation's Health 6:829-31 D '24

THERMAL analysis
Deduction of the type of a two-component system by means of the addition of a third component. F. A. Freeth. diags J Phys Chem 29:497-507 My '25
Eine halbselbsttätige anordnung zur aufnahme reziproker geschwindigkeitskurven (Osmond-kurven) in der thermischen analyse. F. Wever. diag Stahl & Eisen 45:435-6 Mr 19 '25

See also Critical point

THERMALLOY
Thermalloy, a temperature-sensitive magnetic material. I. F. Kinnard and H. T. Faus. Am Inst E E J 44:246-8 Mr '25

THERMIONIC valves. See Vacuum tubes

THERMIT
Explosives and thermits. A. Marshall. Soc Chem Ind J (Chem & Ind) 43:326 Mr 28 '24
Thermit, ein neues lagermetall. il Elektrotech Zeit 45:63-4 Ja 24 '24
What thermit is. Brass W 21:193 Je '25

THERMIT welding. See Welding—Thermit process

THERMOCHEMISTRY
Calculation of gaseous equilibrium constants. S. W. Saunders. J Phys Chem 28:1151-66 N '24
Derivation of the equation for the effect of temperature on reaction rate. R: C. Tolman. Am Chem Soc J 47:2652-61 N '25
Effect of temperature upon properties of metals. Mech Eng 46:414-16 Jl '24
Heat of formation of lead carbonate. A. L. Marshall and B. Bruzs. J Phys Chem 29: 1184-6 S '25
Heat of formation of nitrogen trichloride. W: A. Noyes and W: F. Tuley. Am Chem Soc J 47:1336-41 My '25
Mechanism and thermochemistry of the reaction between calcium carbide and nitrogen. H. J. Krase and J. Y. Yee. Am Chem Soc J 46:1358-66 Je '24
Re-determination of the heats of oxidation of certain metals. J. E. Moose and S. W. Parr. diags Am Chem Soc J 46:2656-61 D '24
Researches on residual affinity and co-ordination; heats of chelation of dithiolated metallic halides. G. T. Morgan, S. R. Carter and W: F. Harrison. Chem Soc J 127:1917-25 S '25
Temperature control in ammonia oxidation. G. A. Perley and R. P. Smith. Ind & Eng Chem 17:258-60 Mr '25
Thermal considerations in sulphuric acid concentration. F. C. Zeisberg. Am Inst Chem Eng Trans v 14:1-11 '21-'22
Thermal energy of electrons in metals. E. D. Eastman, A. M. Williams and T. F. Young. Am Chem Soc J 46:1184-96 My '24

See also Adsorption, Heat of; Boiling points; Combustion; Combustion, Heat of; Dissociation, Heat of; Distillation; Evaporation; Flash point; Freezing points; Fusion, Heat of; Latent heat; Melting points; Mixing, Heat of; Mol (term); Oxidation, Heat of; Solution, Heat of; Specific heat; Sublimation, Heat of; Vaporization, Heat of; Wetting, Heat of

THERMOCOUPLES
Characteristics of some materials for base-metal thermocouples. F. E. Bash. Am Soc T M Pro 24 pt 2:416-21 '24
New vacuum thermoelement. W. J. H. Moll and H. C. Burger. diags Philos Mag 6th ser 50:618-24 S '25
Thermocouple easily made for small plant temperature measurement. C: E. Colborn. diag Power 61:873-4 Je 2 '25; Discussion. 62:378, 655 S 8, O 27 '25

THERMODYNAMICS
Analysis of power-plant performance based on the second law of thermodynamics. W: L. DeBaufre. Mech Eng 47:426-8 sec 2 My '25
Binary cycles using mercury and steam. A. M. Greene, jr. diags Mech Eng 46:142-4 Mr '24
Carnot's influence upon engineering. W: L. Emmet. Mech Eng 47:39-40 Ja '25
Carnot's principle. M. I. Pupin. Mech Eng 47:38-9 Ja '25; Same. Power 60:1034-5 D 23 '24
Chemical thermodynamics. J. R. Partington. 282p Van Nostrand '24
Comparison of thermodynamic characteristics of various refrigerating fluids, with reference to their adaptability for both positive and centrifugal compression. W. H. Carrier and R. W. Waterfill. diags Refrig Eng 10: 415-23; Bibliography. 423-4 Je '24
Dependence on pressure of the adiabatic cooling of some organic substances. N. A. Pushin and E. V. Grebenshchikov. Chem Soc J 125:2043-8 O '24
Determination of the thermal efficiency and performance of ideal internal combustion engines. R. W. Bailey. Engineering 120:403-5 O 2 '25
Elements of engineering thermodynamics. J. A. Moyer, J. P. Calderwood and A. A. Potter. 3d ed., rev. 224p [bibliog. p. 218-19] Wiley '25
Entropy and statistical mechanics. E. H. Kennard. Sibley J 38:212-13+ D '24
Graphische behandlung der einfachen gasgesetze. B. Eck and E. Kayser. diags Zeit Ver Deutsch Ing 69:871-5 Je 27 '25
Heat-work conversion law questioned. diag Power 59:498-9, 653-4, 873-4, 960-1, 999 Mr 25, Ap 22, My 27, Je 10-17 '24
How much work can be obtained from a pound of fuel? L. S. Marks. Power 60:536-9 S 30 '24
Individual thermodynamic properties of ions. J. N. Brönsted. Am Chem Soc J 45:2898-2910 D '23
Influence of J. Willard Gibbs on the science of physical chemistry. F. G. Donnan. J Fr Inst 199:457-83 Ap '25
Investigation of the maximum temperatures and pressures attainable in the combustion of gaseous and liquid fuels. G. A. Goodenough and G: T. Felbeck. Ill U Eng Exp Sta Bul 139:11-158 '24
Mechanical equivalent of heat; Joule's first measurements. W. W. H. Gee. diags Engineer 139:426-8 Ap 17 '25
Method of Willard Gibbs in chemical thermodynamics. W. L. Miller. il Chem R 1:293-344 Ja '25
Problems in thermodynamics and steam power plant engineering: Problems in thermodynamics by A. H. Blaisdell; Problems in steam power plant engineering by T: G. Estep. 163p Wiley '25
Proof of the corollary of Carnot's theorem. A. E. Ruark. Philos Mag 6th ser 49:584-5 Mr '25
Restricted movements of molecules at very low pressures; a limit of applicability of the second law of thermodynamics. A. Fairbourne. diags Philos Mag 6th ser 43: 1047-56 Je '22; Discussion. 45:414-15; 47:152-9 Mr '23, Ja '24
Statement of the third law of thermodynamics. E. D. Eastman. Am Chem Soc J 46: 39-43 Ja '24
Straight-line water-vapor diagram for the standard and high-pressure ranges. M. Seiliger. Mech Eng 46:212-13 Ap '24
Supposed limitation of the second law of thermodynamics. J. W. Fisher. Philos Mag 6th ser 47:779-81 Ap '24
System of physical chemistry. W: C. M. Lewis. 4th ed. v. 2, 489p Longmans '25
Theory of thermionics. H. A. Wilson. Phys R 24:38-48 Jl '24

THERMODYNAMICS—*Continued*
Thermal data on organic compounds. G: S. Parks and K. K. Kelley. Am Chem Soc J 47:2089-97 Ag '25
Thermal data on organic compounds; the heat capacities and free energies of methyl, ethyl and normal-butyl alcohols. G: S. Parks. Am Chem Soc J 47:338-45 F '25
Thermal derivations of energy functions. P. G. Nutting. J Fr Inst 199:503-6 Ap '25
Thermal research as a guide to engineering practice. H. C. Dickinson. Am Inst Chem Eng Trans v 15 pt 2:129-37 '23
Thermodynamic properties of calcite and aragonite. H. L. J. Backström. diag Am Chem Soc J 47:2432-42 O '25
Thermo-dynamics of aircraft engines. H. R. Ricardo. Roy Aeronautical Soc J 28:49-75; Discussion. 75-87 F '24
Thermodynamics of thermal transpiration and of the Thomson effect. E. H. Kennard. Phys R 22:617-21 D '23
Thermodynamics of thermionic emission. C. Davisson. Philos Mag 6th ser 47:544-9 Mr '24
Thermodynamics of water absorption by textile materials. S. A. Shorter. bibliog Textile Inst J 15:T328-36 Je '24; Abstract. Soc Dyers & Col J 40:300-1 S '24
Thermodynamics recapitulated on three pages. P. A. Cushman. 15p Andrus & Church, Ithaca, N.Y. '23
Third law of thermodynamics and calculation of entropies. T. J. Webb. J Phys Chem 29: 816-33 Jl '25

See also Critical point; Entropy; Heat; Joule-Thomson effect; Mol (term); Peltier effect; Radiation; Specific heat; Steam; Vapor pressure

History

Lives of the pioneers of a great science. E. C. Smith. il Power 60:136-40 Jl 22 '24
Sadi Carnot, founder of modern thermodynamics. Mech Eng 46:721-2 N '24

Study and teaching

Selective sectioning in thermodynamics; a progress report on a continuing pedagogical experiment. G. W. Munro. J Eng Educ 15:202-13 N '24

THERMO-electric effect
Thermo-electric effect in single crystal zinc wires. E. G. Linder. diag Phys R 26:486-90 O '25

THERMOELECTRICITY
Effect of light on the thermo-electric power of selenium. R. M. Holmes. diag Phys R 25: 826-34 Je '25
Zusammenhang zwischen belastungsstromstärke und temperatur an frei ausgespanntem widerstandsmaterial. F. Stäblein. Elektrotech Zeit 45:495-6 My 15 '24

See also Joule's law; Peltier effect; Piezoelectricity

THERMOELEMENTS. See Thermocouples

THERMOGRAPH
Control and measurement of temperatures. il Ind Management (Lond) 10:303 N 29 '23

THERMOMAGNETISM
Connections between the four transverse galvanomagnetic and thermomagnetic phenomena. P. W. Bridgman. Phys R 24:644-51 D '24
Galvanomagnetic and thermomagnetic effects. L. L. Campbell. 311p [bibliog. p. 273-308] Longmans '23

THERMOMETERS and thermometry
Apparatus for the measurement of temperatures in deep wells by means of maximum thermometers. C. E. Van Orstrand. il diags Econ Geol 19:229-48 Ap '24
Effect of thermometric lag in Engler distillation. W. R. Ormandy and E. C. Craven. diags Inst Pet Tech J 10:342-55 Je '24
Industrial gas lessons. diags Am Gas J 120: 121-2, 141-2, 167-8, 199-200 F 9-Mr 1 '24
Manufacture of thermometers; photographs. Sci Am 132:314 My '25
Method for safeguarding glass thermometers. W. L. Badger. diags Chem & Met Eng 32: 453 Ap '25
Motoco industrial thermometer. il Textile World 65:2793 Ap 26 '24; Textile Col 47: 728-9 N '25
Platinum-resistance thermometry at low temperatures. M. S. Van Dusen. Am Chem Soc J 47:326-32 F '25
Repair of leaky calorimetric resistance thermometers. J. D. Davis and H. M. Cooper. diags Ind & Eng Chem 16:579 Je '24
Simple differential air thermometer for use at low temperatures. W. A. Noyes. Am Chem Soc J 47:1942-4 Jl '25
Temperature measurement with the Einthoven galvanometer. F. Adcock and E. H. Wells. Inst E E J 61:1115-20 O '23
Temperature measurements. P. Nicholls. bibliog Refrig Eng 10:225-36 D '23
Thermometer stem correction. E. L. Karkau. Elec W 85:878 Ap 25 '25

See also Calorimeters and calorimetry; Katathermometer; Pyrometers and pyrometry; Temperature—Measurement

Specifications

Report of committee D-15 on thermometers, with proposed specifications. Am Soc T M Pro 24 pt 1:675-96 '24

THERMORELAY
Sensitivity of a galvanometer and its amplification. W. J. H. Moll and H. C. Burger. Philos Mag 6th ser 50:626-31 S '25
Thermo-relay. W. J. H. Moll and H. C. Burger. diag Philos Mag 6th ser 50:624-6 S '25

THERMOSTATS
Bimetallic disc type thermostat. V. G. Vaughan. il diags Elec J 21:532-4 N '24
Clock thermostats and oil burners. H. W. Sweatt. Heat & Ven 22:92-3 S '25
Comparative tests of heating systems. Eng & Contr (Bldgs) 63:1363-5 Je 24 '25
Constant-level device for a thermostatic bath. I: Bencowitz and H: T. Hotchkiss, jr. diag Ind & Eng Chem 16:1193 N '24
Continuous thermostatic wire for fire alarm systems. diag Elec Ry J 62:867-8 N 17 '23
Developments in thermostatic control. L. P. Hynes. il Elec Ry J 64:930 N 29 '24
Getting best results with heater control equipment. L. P. Hynes. diags Elec Ry J 63:97-100 Ja 19 '24
Johnson dual thermostat. il Heat & Ven 22: 89-90 Mr '25; Textile World 68:2801 N 7 '25
New design circuit breaker for laboratory thermostats. G. F: Smith and C. E. Hollister. il diag Ind & Eng Chem 16:1162-3 N '24
New sales argument which came from a furnace tender; Spencer thermostat. R. Crothers. Ptr Ink M 10:48+ My '25
New thermostatic gas-valve for high temperatures from 500° Fahr. upwards. il Gas J (Lond) 166:598-9 My 28 '24
Le réglage thermostatique de la température sur les voitures chauffées électriquement. diags Génie Civil 85:72-3 Jl 19 '24
Snapping-bug thermostat. diag Sci Am 132: 191+ Mr '25
Taking the mystery out of heat regulation. E. W. Riesbeck. il diags Dom Eng 109:27+ O 4 '24
Thermo-regulator and its applications. A. Westerberg. Elec W 83:1245 Je 14 '24
Thermostat T.R.B. pour radiateurs d'automobiles. diags Génie Civil 85:379-80 O 25 '24
Thermostatic and distant control of furnaces and boilers. O. J. Kuenhold. diags Gas Age 56:337-9+ S 5 '25
Thermostatic control for domestic gas fired heating. R. C. Martin. diags Gas Age 55: 537-8 Ap 11 '25
Two types of thermostats. E. W. Reisbeck. Dom Eng 109:23 D 6 '24

THIANTHRENE
Synthesis of substituted thianthrens. S. Krishna. Chem Soc J 123:2786-90 N '23

THIAZINE
Action of lead monoxide (litharge) on *o,o*^{1}-dithio-aniline; an example of simple thiazine formation. H. H. Hodgson. Soc Dyers & Col J 41:99-102 Mr '25

THIAZOLES
Researches on thiazoles; a new group of dyes from poison gases through the 2-amino-thiazoles as intermediates—the preparation of thiazole dyes of Doebner violet type. M. T. Bogert and M. Chertcoff. Am Chem Soc J 46:2864-71 D '24
Researches on thiazoles; the constitution of Columbia yellow (chloramine yellow) and the synthesis of some related compounds. M. T. Bogert and F. H. Bergeim. Color Tr J 15:63-8 S '24
Researches on thiazoles; the preparation of dehydro-thio-para-toluidine and some of its derivatives. M. T. Bogert and F. D. Snell. diag Color Tr J 14:109-13, 151-4 Ap-My '24
See also Benzothiazoles

THIAZOLIDINES
Substituted thio-ureas; the synthesis of thio-ureas from amino-ethanols and of thiazolidine derivatives. F. B. Dains and others. Am Chem Soc J 47:1981-9 Jl '25

THICKENERS
Genter continuous vacuum thickener. C. E. Chaffin. il diag plan Eng & Min J 120:74-6 Jl 11 '25
Golden cycle "superthickener" and clarifier. N. Cunningham. diags Eng & Min J 119: 905-7 My 30 '25
Hardinge superthickener. diag Chem & Met Eng 32:647-8 Jl '25
Improvement in thickening and water clarification. N. Cunningham. diag Chem & Met Eng 32:750-2 S '25
Oliver-Borden automatic clarifier or thickener. il diags Chem & Met Eng 32:649-50 Jl '25
Oliver-Borden thickener. il Eng & Min J 119: 33 Ja 3 '25
Rubber saving in reclaiming. il India Rubber W 73:68 N '25

THIES process. See Dyes and dyeing—Cotton

THIO-ACETIC acid
Preparation of thio-acetic acid. H. T. Clarke and W. W. Hartman. Am Chem Soc J 46: 1731-3 Jl '24

THIOAMIDES
Action of hydroxylamine and of hydrazine on the aryl monothio-amides of ethyl acetylmalonate. D: E. Worrall. Am Chem Soc J 46:2832-4 D '24
Addition of sodium ethylaceto-acetate to substituted aromatic mustard oils. D: E. Worrall. Am Chem Soc J 46:2834-8 D '24

THIOCARBAMIDES. See Thiourea

THIOCARBANILIDE
Analysis of organic rubber vulcanising accelerators. T. Callan and N. Strafford. Soc Chem Ind J 43:6-7 Ja 4 '24
Mechanism of the formation of thiocarbanilide. S. J. C. Snedker. Soc Chem Ind J 44: 74-6 F 20 '25
Rapid method for the preparation of thiocarbanilide. S. J. C. Snedker. Soc Chem Ind J 44:486 O 9 '25

THIOCARBIMIDES
Halogen-substituted aryl thiocarbimides. F: D. Chattaway, R: K. Hardy and H. G: Watts. Chem Soc J 125:1552-5 Ag '24

THIOCARBOHYDRAZIDE
New method for the preparation of thiocarbohydrazide: mono- and di-thio-*p*-urazine. P. C. Guha and S. C. De. Chem Soc J 125: 1215-18 Je '24

THIOCARBONYL chloride. See Thiophosgene

THIOCYANATES
Orienting influence of the thiocyano-group in aromatic compounds. F: Challenger and A. D. Collins. Chem Soc J 125:1377-81 Je '24

THIOCYANOGEN
Azido-carbondisulfide; reaction of azido-carbondisulfide and of free thiocyanogen with hydrogen trinitride (hydronitric acid) in certain non-aqueous solvents. F. Wilcoxon, A. E. McKinney and A. W. Browne. Am Chem Soc J 47:1916-21 Jl '25
Interaction of thiocyanogen with unsaturated compounds. F: Challenger and T: H. Bott. Chem Soc J 127:1039-42 My '25

THIODIAZOLES
Constitution of the so-called dithio-urazole of Martin Freund; synthesis of some mono-substituted thiodiazoles. P. C. Guha and H. P. Rây. Am Chem Soc J 47:385-90 F '25

THIODIPHENYLAMINE
Dyes derived from carbazole and thiodiphenylamine. S. Dutt. Chem Soc J 125:802-7 Ap '24; Abstract. Soc Dyers & Col J 40:264-5 Ag '24

THIOINDICAN
Studies of the glucosides; the synthesis of thioindican. J. Craik and A. K. Macbeth. Chem Soc J 127:1637-40 Jl '25

THIOINDIGO
New thioindigo vat dye. Color Tr J 15:69 S '24
Synthesis of 5:5′-dibromo-6:6′-dimethoxy-2:2′-bisoxythionaphthen. R. H. Griffith and E: Hope. Chem Soc J 127:990-5 My '25

THIOISOCYANINES
Cyanine dyes; a new method of formation of the carbocyanines; the constitution of the thio*iso*cyanines and of kryptocyanine. W: H. Mills and W. T. K. Braunholtz. Chem Soc J 123:2804-13 N '23

THIOLBENZOIC acid
Synthesis of *p*-thiolbenzoic acid. G: Thompson. Soc Chem Ind J 44:196 Ap 24 '25

THIOLGLYOXALINES
Oxidation of a 2-thiol-4:5-diphenylglyoxaline. I. D. Lamb and F. L. Pyman. Chem Soc J 125:706-10 Mr '24

THIONAPHTHACOUMARIN
Derivatives of thionaphthacoumarin. S: Smiles and L. R. Hart. Chem Soc J 123: 2907-13 N '23

THIONAPHTHENONE
Derivatives of 3-oxy(1)thionaphthen. L. R. Hart and S: Smiles. Chem Soc J 125:876-81 Ap '24

THIONYL chloride
Action of thionyl chloride on hydroxyanthraquinones; thionylalizarin. A. Green. Chem Soc J 125:1450-1 Jl '24

THIONYLALIZARIN
Action of thionyl chloride on hydroxyanthraquinones; thionylalizarin. A. Green. Chem Soc J 125:1450-1 Jl '24

THIO-PARA-TOLUIDINE
Action of sulfur upon para-toluidine in the presence of litharge; thio-para-toluidine, its constitution and some new derivatives. M. T. Bogert and M. R. Mandelbaum. Am Chem Soc J 45:3045-55 D '23
See also Dehydrothio-para-toluidine

THIOPHOSGENE
Reactions of thiocarbonyl chloride; reaction with aromatic primary amino-compounds. G: M. Dyson and H. J: George. Chem Soc J 125:1702-8 Ag '24

THIOUREA
Chloronitrobenzenes and thiocarbamides. J: Taylor and A: E: Dixon. Chem Soc J 125: 243-50 Ja '24
Equilibrium between thio-urea and ammonium thiocyanate. G. H. Burrows. Am Chem Soc J 46:1623-7 Jl '24
Substituted thio-ureas; the synthesis of thio-ureas from amino-ethanols and of thiazolidine derivatives. F. B. Dains and others. Am Chem Soc J 47:1981-9 Jl '25

THIRD rail
A.B.C. of the electric car. J: S. Dean. diags Aera 12:866-8 D '23
British patent for protecting third rail. diag Eng & Contr (Ry) 61:162 Ja 16 '24
Stainless steel for third rail terminal bolts. Elec Ry J 64:780 N 1 '24
Third-rail for electric track in Paris. diags Eng N 93:417 S 11 '24

THIRD rail—*Continued*
Under-contact conductor rails. il diags Electrician 92:10-11 Ja 4 '24; Elec Ry J 63:879 Je 7 '24

THOMAS, Phillips
Portrait. Sci Am 130:157 Mr '24

THOMASTON, Alabama
Progress of Thomaston, Alabama. L. B. Robertson. il Manuf Rec 85:84-5 Ap 10 '24

THOMPSON, Benjamin, 1753-1814
Sketch. E. C. Smith. por Power 60:136-7 Jl 22 '24

THOMSON, Elihu, 1853-
Kelvin medal awarded to Elihu Thomson. por Am Inst E E J 43:162 F '24; Power Pl Eng 28:313-14 Mr 1 '24; N E L A Bul 11:143 Mr '24; Sci Am 130:309 My '24
Presentation of the Franklin medal and certificate of honorary membership to Dr Pieter Zeeman and Dr Elihu Thomson. por J Fr Inst 200:369-75 S '25

THOMSON effect
Thermodynamics of thermal transpiration and of the Thomson effect. E. H. Kennard. Phys R 22:617-21 D '23

THOMSON-HOUSTON company
Pioneering with the Thomson-Houston company. E. W. Rice, jr. il diags Elec W 84: 581-4 S 20 '24

THORIA. See Thorium oxide

THORIUM
Cerium and thorium. J. P. Bonardi. U S Bur Mines Bul 212:19-66; Bibliography. 66-70 '23
Electric charge by thorium X and thorium emanation recoil atoms in gases. G. H. Briggs. diags Philos Mag 6th ser 50:600-12 S '25
Electron emission from adsorbed films on tungsten. K. H. Kingdon. Phys R 24:510-22 N '24
Ionium; recovery of ionium from carnotite—adsorption of ionium-thorium by barium sulfate—ionium-thorium ratio in carnotite. G. D. Kammer and A. Silverman. Am Chem Soc J 47:2514-22 O '25
Marketing of rare metals and minerals. H. C. Meyer. Eng & Min J 118:288-9 Ag 23 '24

THORIUM oxide
Adsorption of vapors by metallic oxides—its bearing on the catalysis of ester formation. J. N. Pearce and A. M. Alvarado. diag J Phys Chem 29:256-70 Mr '25
Catalytic effects of the oxides of cerium and thorium, and their bearing on the theory of the Welsbach mantle. R: L. Swan. diag Chem Soc J 125:780-5 Ap '24
Electron emission from thoriated tungsten filaments. I. Langmuir. Phys R 22:357-98 O '23
Promoter action of thoria on nickel catalysts. W: W. Russell and H. S. Taylor. diags J Phys Chem 29:1325-41 O '25

THORNTON, Henry W.
Canada's experiment molded around a personality. W. S. Thompson. Ry R 75:756-7 N 8 '24

THOUGHT and thinking
Lessons in achievement. H. A. Bruce. Forbes 14:25+; 15:458+ Ap 12 '24, Ja 15 '25

THOUGHT transference. See Telepathy

THREAD
Thread, twine, cordage, and rope. E. Wigglesworth. Textile Inst J 16:P139-42 My '25

Manufacture

Gas boiler makes speed of 4,200 miles an hour in the manufacture of thread. E. W. Berchtold. il Am Gas J 120:47-8 Ja 19 '24

Specifications

Proposed tentative specifications for tolerances and test methods for cotton sewing threads. Textile World 65:4285 Je 28 '24

Testing

Apparatus for testing threads. diag Color Tr J 16:25 Ja '25

THREAD cutting
Best shop practices in cutting and tapping machine threads for repair work. G. H. Radebaugh. il diags Coal Age 25:279-82 F 21 '24
Chasing lead-screws; practice of the American tool works co. C: O. Herb. il Mach 30: 883-4 Jl '24
Cutting a lead-screw of unusual accuracy. W: Gaertner. il diag Mach 31:808-10 Je '25
Cutting metric threads with an English lead-screw. F: J. Naab. Mach 30:930 Ag '24
Cutting outside threads in a drill press. F. Waldo. diag Am Mach 62:854 My 28 '25; Discussion. A. D. Lines. 63:480 S 17 '25
Hobbing in the lathe. F. H. Mayoh. diags Mach 31:293-4 D '24
How to estimate machine shop costs. A. A. Dowd. diags Am Mach 61:299-302, 469-73 Ag 21, S 18 '24
Pertinent ideas on the cutting of threads. H. R. Fowler. Am Mach 60:573-4; 62:399-400 Ap 17 '24, Mr 5 '25; Discussion. 60:886; 61:652; 62:909 Je 12, O 23 '24, Je 11 '25
Threading grease cup caps. il Ry R 74:343 F 23 '24
Threading tool and gage forms for the new screw thread standard. R. E. Flanders. il diags Am Mach 61:481-6 S 25 '24
Zeiss thread-measuring instruments. il diags Am Mach 62:861-2 My 28 '25; Iron Age 115: 1783-4 Je 18 '25

See also Screw threads

THREAD cutting machines
Ancient thread milling machine. J. Williams. il Am Mach 59:811 N 29 '23
Automatic nut thread corporation, nut-threading attachment. il Am Mach 63:717 O 29 '25
Bickford pipe tap thread milling machine. il Am Mach 60:825 My 29 '24; Iron Age 113: 1647 Je 5 '24
Cutter shapes for milled and ground threads. E. Wildhaber. diags Am Mach 60:645-9 My 1 '24
Device for backing-off thread-milling hobs. E. Emos. il Am Mach 60:896 Je 12 '24
Economy bolt pointing and threading machine. il Mach 31:234-5 N '24
Geometric double spindle threading machine. il Marine Eng 29:344 Je '24
Holmes tilted bolt threader no. 20. il Am Mach 62:41 Ja 1 '25; Iron Age 115:126 Ja 8 '25
Home-made thread-milling attachment. J. Williams. il Am Mach 61:246 Ag 7 '24
Landis bolt factory threader. il Am Mach 61: 211 Jl 31 '24
Landis ½-in. double-head threading machine. il Am Mach 63:453 S 10 '25; Mach 32:72 S '25; Iron Age 116:617 S 3 '25
Making master threading tools. G. D. Hutchings. diags Mach 31:131-3 O '24
Pratt & Whitney form miller and thread hobber. il Iron Age 114:507-8 Ag 28 '24; Am Mach 61:360-1 Ag 28 '24; Mach 31:62-4 S '24
Pratt & Whitney thread miller, 10-inch. il Am Mach 63:212 Jl 30 '25; Iron Age 116: 283-4 Jl 30 '25; Mach 31:1002 Ag '25
Société Genevoise thread grinding machine. il Iron Age 116:893 O 1 '25; Am Mach 63:566-7 O 1 '25; Mach 32:153-4 O '25
Special apparatus for taper threading. W. O. Russell. diags Am Mach 60:480 Mr 27 '24
Threading machine made from old turret lathe. H. C. Ten Horn. diags Mach 32:51-2 S '25
Wolseley thread-grinding machine at the British Empire exhibition. il diags Engineering 118:546, 547-8 O 17 '24

THREAD rolling
Pointers on thread rolling. A. R. Van Tassell. Mach 31:121 O '24
Rolling threads on screw caps. E: J. Rantsch. Mach 30:886-7 Jl '24
Rolling threads on sheet-metal shells. J. Ellis. diags Mach 31:559-60 Mr '25
Rolling threads on thin brass shells. W. P. Doolittle. diags Am Mach 60:793-4 My 29 '24

THREAD rolling machines
Making roll threader dies. A. L. Greene. il Mach 31:942 Ag '25

THREAD rolling machines—*Continued*
Waterbury Farrel bolt-trimming and thread-rolling machines. il Mach 31:230-2 N '24

THREE-carbon system. See Tricarbon series

THREE-strip pavements. See Roads, Concrete —Three-strip pavements

THRESHING machines
Origin of the thrashing machine. Engineer 137:683; 138:83 Je 20, Jl 18 '24
Timely suggestions to dealers on making thresher sales. il Dun's Int R 46:56-9 O '25

THRIFT. See Saving

THROPP, Thomas H.
Why I can do six days' work in four. T: H. Thropp. System 48:43+ Jl '25

THRUST bearings
Heavy-duty thrust bearings. il Am Mach 62: 194 Ja 29 '25
Michell thrust bearing. R. O. Boswall. Engineering 120:153-5 Ag 7 '25; Discussion. E. M. Speakman. 120:198 Ag 14 '25
Million-pound thrust bearing. il Power Pl Eng 29:362 Mr 15 '25
Notes on the theory of lubrication, with particular application to the Michell thrust and journal bearings; abstract. J. Ward. Mech Eng 46:423-4 Jl '24
Practical notes on the theory of the Michell bearing. W. R. Needham. Engineering 119:183-4 F 13 '25; Discussion. R. O. Boswall. 119:710 Je 5 '25
Roll bearings for cold rolling mills. diags Engineering 118:769 D 5 '24
Thrust bearing on turbine changed. R. H Morris. diag Power Pl Eng 29:995-6 O 1 '25
Thrust bearings of pad construction. F. Johnstone-Taylor. diags Mach 30:619-21 Ap '24
Thrust blocks for the SS. Empress of Australia. il diags plans Engineering 117:268-9, 272 F 29 '24

THULIUM
X-ray spectra of hafnium and thulium. D. Coster. Philos Mag 6th ser 46:956-63, pl 13 N '23

THUNDERSTORMS
Distribution of thunderstorms over the globe. C. E. P. Brooks. Elec R (Lond) 96:753 My 8 '25
Magnetic storms; the behaviour of earthed telegraph and telephone circuits. W. J. Thorrowgood. Electrician 95:264 S 4 '25
Thunderstorms and aviation. G. C. Simpson. il Roy Aeronautical Soc J 29:24-41; Discussion. 41-6 Ja '25

THYMINE
New methods of splitting pyrimidines; a study of the mechanism of the decomposition of thymine. O. Baudisch and L. W. Bass. Am Chem Soc J 46:184-9 Ja '24
New methods of splitting pyrimidines; the action of oxygen plus ferrous salts on thymine under the influence of light. L. W. Bass. Am Chem Soc J 46:190-2 Ja '24

THYMOL blue
Spectrophotometric determination of hydrogen-ion concentrations and of the apparent dissociation constants of indicators; thymol blue. W. C. Holmes and E: F. Snyder. Am Chem Soc J 47:221-6 Ja '25

THYROID gland
Function of the thyroid. Sci Am 131:250 O '24
Influence of the thyroid gland on oxidation in the animal organism. E: C. Kendall. il Ind & Eng Chem 17:525-34 My '25

THYROXIN
Relationship of thyroxin to tryptophan. C. S. Hicks. Chem Soc J 127:771-6 Ap '25

TIBET
See Hydroelectric plants—Tibet

TICKET offices, Railroad. See Railroads—Ticket offices

TICKETS, Railroad. See Railroads—Tickets

TIDAL lands. See Marshes, Tide

TIDD, George N., 1874-
Portrait. Elec W 82:950 N 10 '23

TIDE power
Electrical energy from the tides; details of an interesting French experiment. plan Elec R (Lond) 93:339-40 Ag 29 '24
Electrical energy from tides; double-acting reservoir method. Can Eng 48:599-600 Je 23 '25
French tidal power station. G. Trautner. Power 61:198 F 3 '25
Harnessing the tides. Eng & Contr (W W) 62:67 Jl 9 '24
Maine voters to consider tide water plant. Power Pl Eng 29:872-3 Ag 15 '25; Power 62: 309 Ag 25 '25
Pinard-Sala system of harnessing tides; abstract. F. Pinard and R. Sala. il Mech Eng 47:501-2 Je '25
Studies in tidal power by Norman Davey. Review. Engineer 137:170 F 15 '24
Tidal and wave-power utilisation. M. de Rouville. Engineering 120:275-6 Ag 28 '25
Tidal power for Maine. Mech Eng 47:864 O '25
Tidal power installations. J. O. Boving. diags Elec R (Lond) 95:844-5 D 5 '24
Tidal power installations. A. J. V. Underwood. diag Elec R (Lond) 95:725-7 N 14 '24
Tidal power plan approved by voters in Maine. Eng N 95:525 S 24 '25
Tidal power schemes in England. Eng N 95: 459 S 17 '25
Tide power. diag Power 62:660-1 O 27 '25
Utilization of tidal power. Can Eng 48:344 Mr 24 '25; Same. Eng & Contr (W W) 64: 366-7 Ag 12 '25

TIDE water oil company
Tide water oil company securities. Moody's Inv Serv 17:243 Jl 23 '25

TIDE water power company
Annual report, 17th, 1923. Comm & Fin Chr 118:2454-5 My 17 '24

TIDES
Common cause of tides, volcanoes and earthquakes. E: Godfrey. Eng & Contr (Ry) 62: 1095-7 N 19 '24
New portable tide gage for temporary use. G. T. Rude. il Eng N 91:856-7 N 22 '23
Portable automatic tide gauges. il Eng & Contr (W W) 61:1085-7 My 14 '24
Theorem in tidal dynamics. J. Proudman. Philos Mag 6th ser 49:570-9 Mr '25
Tidal and current work of the Coast and geodetic survey. G. T. Rude. il diags J Fr Inst 197:73-97, 217-51 Ja-F '24
Tidal power lifts concrete bridge span. il Eng N 92:1107 Je 26 '24
Tide staff designed to meet exacting conditions. D. L. Parkhurst. Eng N 94:450 Mr 12 '25
Tides in a channel. J. Proudman. Philos Mag 6th ser 49:465-75 F '25
Water and water engineering; abstract. E. W. Hollingsworth. Can Eng 46:480 Ap 29 '24
See also Tide power

TIE plates, Railroad. See Railroad tie plates

TIERING machines
Barrel-stacking machine. il Ind Management (Lond) 10:280-1 N 15 '23
Helps in erecting radiators, lineshafts or motors on ceilings. il Ind Eng 82:145 Mr '24
How lift trucks aid in safe handling of material. A. L. Lewis. il Nat Safety N 9: 21-2 Ap '24
How the tiering truck has earned its way. M: W. Potts. il Ind Management 70:230-4 O '25
Lewis-Shepard heavy-duty power stacker, type PB. il Am Mach 63:603 O 8 '25
Lewis-Shepard worm-drive stacker. il Am Mach 62:792 My 14 '25
Lift trucks and tiering machines. il Factory 35:232-3 Ag '25

TIES, Cotton. See Cotton baling ties

TIES, Railroad. See Railroad ties

TIGHTENING machines, Plate. See Plate tightening machines

TILBURY, England

Sewerage

New sewage works at Tilbury. il diag plans Engineer 138:242-5 Ag 29 '24

TILE

Rapid check-testing for feldspar for use in vitrified floor tile. N. A. Ragland. Am Cer Soc J 8:391-2 Je '25

Relation of tile to architecture. S. J. Vickers. Arch & Bldg 56:98-9 O '24

Use of clay products in modern homes. R. B. Keeler. il Am Cer Soc J (Bul) 8:310-20 Jl '25

See also Concrete tile; Drain tile; Gypsum tile; Hollow tile; Rubber tile

Manufacture

How John Chinaman makes brick and tile. il Brick & Clay Rec 67:483 S 29 '25

Making tile the modern way. il Brick & Clay Rec 64:886-7 Je 10 '24

TILE, Concrete. See Concrete tile

TILE, Gypsum. See Gypsum tile

TILE, Rubber. See Rubber tile

TILE manufacturers' credit association

Court order restricts gathering of trade statistics. Elec W 82:1195-6 D 8 '23

Objectionable trade association practices are defined; a review of the government's case against the Tile manufacturers. J: F. Richter. Ptr Ink 125:25-8 D 6 '23

TIMBER

See also Douglas fir; Dry rot; Forest products; Hard woods; Lumber; Lumbering; Pine; Wood

Great Britain

Timber and timber products. S. J: Duly. 228p Van Nostrand '24

TIME

Chronological terms explained. Sci Am 132: 52 Ja '25

Experimental study of the appreciation of time by somnambules. S. E. Hooper. Sci Am 130:322 My '24

Is time the fourth dimension? N: P. Rashevsky. il Sci Am 131:400-2+ D '24

Size of the universe. N. P. Rashevsky. il Sci Am 132:30-1 Ja '25

World time chart. Sci Am 132:58 Ja '25

TIME cards

Classification of causes for variations from standard labor costs; symbols and method of use on time cards. M. R. Lott. Management & Adm 9:347-8 Ap '25

Now we have no more piece-work complaints. U. L. Harmon. Factory 34:762-3 My '25

Unit labor costs are easily found. A. J. Peel. Concrete 27:32-4 N '25

TIME clocks

Electric time stamp. il Management & Adm 8:427 O '24

Punctuality as an efficiency test. R. B. Hobson. Cassier's Ind Management 12:477-8 O '25

Specifications

Outline of tentative specifications for electric time recording and program system. Am Arch 126:548-9 D 3 '24

TIME keeping

Costing and time-booking. F. A. R. Paton. Engineer 138:633-4 D 5 '24

Decimal method of labor distribution. J. M. Schappert. Ind Management 67:98 F '24

Reducing the cost of time keeping. A. P. Child. il Am Mach 60:896-7 Je 12 '24

Relation of timekeeping to cost work in 64 American plants. Ind Management 68:205-6 O '24

See also Time cards; Time clocks

TIME measurement

Listening to the stars; how the night skies regulate the clocks of France. F: M. Delano, jr. il Sci Am 131:310-11 N '24

Method for measurement of time intervals from 10^{-7} to 6.7×10^{-11} second. P. Heymans and N. H. Frank. il diag Phys R 25:865-9 Je '25

Time measurement. L. Bolton. 173p Van Nostrand '24

See also Timing devices

TIME perception

Discriminations between past and future. P. Du Val. diags Philos Mag 6th ser 49:379-90 F '25

TIME saving

Our war against time. W: Cordes. il Factory 35:39-42+ Jl '25

TIME signals

Improvised automatic time signal. H. Hughes. diags Power 58:818-19 N 20 '23

TIME signals, Radio

Determining longitude by radio. C. H. Swick. il Radio N 6:656-7 N '24

International W/T time signals. Radio Serv Bul 95:15-16 Mr '25

Listening to the stars; how the night skies regulate the clocks of France. F: M. Delano, jr. il Sci Am 131:310-11 N '24

Mapping continents by radio. C. H. Swick. il Sci Am 132:333 My '25

TIME study

Analytical study of production jobs. V. S. Karabasz. Ann Am Acad 119:80-4 My '25

Broader conception of time and motion study. W: Baum. Am Management R 14:337-9 N '25

Graphical charts as an aid to time study. E. C. Van Orsdell. diags Ind Management 70:141-9 S '25

Grouping machines economically. H. M. Groff. Mach 30:583-6 Ap '24

Interpreting time-study data of mining operations. W. F. Dietrich. Eng & Min J 118: 297-300 Ag 23 '24

Maintaining a profit with reduced prices. E. A. Munschauer. Management & Adm 7:401-4 Ap '24

Making and using time studies. H. K. Reed. diags Ind Management 67:145-9, 231-4, 272-8, 375-82; 68:29-34, 165-9 Mr-Jl, S '24

Making intelligent time study allowances. A. Caddie. Ind Management 70:38-9 Jl '25

Managing maintenance work with economy. T. Clark. Management & Adm 8:194-6, 299-302 Ag-S '24

Methods in the setting of piece-rates by time study. Harvard Business R 2:373-6 Ap '24

Modern management in an ancient industry. T. C. Eckstein. il Ind Management 66:368-72 D '23

New graphical solution for time allowances in task setting. C. G. Barth. Management & Adm 9:143-4 F '25

Principles and practice of time study. H. W. Dickson. Ind Management 69:39-44 Ja '25

Selecting the worker for time study observation. L. A. Sylvester. Ind Management 69: 54-5 Ja '25

Solving a sales problem in the factory. B. M. Maynard. Factory 31:747-50 D '23

Standard time for production welding. J. W. Meadowcroft. Am Mach 61:616 O 16 '24

Time setting in a machine tool plant. M. A. Lee and D. Vandevate. Ind Management 69:152-6 Mr '25

Time standardisation of workshop operations. T. Pilkington. 253p Pitman '25

Time study and standardization. G. C. Brown. Management & Adm 7:431-6 Ap '24

Time study in meter work betters service. F. H. Pumphrey. il Elec W 84:120-1 Jl 19 '24

Time-studying the cleaning crew. E. Schultz. System 46:98-9 Jl '24

Wie kommen wir zu einer einheitlichen akkordbestimmung in der giesserei? H. Resow. Stahl & Eisen 44:1363-70 O 30 '24

See also Job analysis; Rate setting

TIMEPIECES. See Clocks; Time clocks; Watches

TIMES building, New York. See New York Times building

TIMETABLES. See Motor bus lines—Time tables; Railroads—Time tables

TIMING devices
Timing the operation of oil switches. C. W. Bates. Elec W 84:70-1 Jl 12 '24
See also Chronograph

TIMKEN Detroit axle company
Timken axle limits field of production. Automotive Ind 50:1350+ Je 19 '24

TIMKEN roller bearing company
Federal court helps Timken preserve quality of product. Ptr Ink 127:114+ Ap 10 '24
This business grew nearly 200-fold in 20 years. O. D. Foster. il Forbes 15:229-31+ N 15 '24

TIN
Brief talk about tin. 15p Pan American union, Washington '25
Condition of the tin market. Economist 98: 1194-6 Je 14 '24
Corrosion of tin. Textile Col 47:731 N '25
Dutch Indies reports on Banka tin production. Eng & Min J 119:529 Mr 28 '25
Effect of impurities on the properties of tin. P. G. J. Gueterbock and G. N. Nicklin. il Soc Chem Ind J 44:370-4 Jl 17 '25
History of tinning, tin and tin plates. A. Eyles. Sheet Metal Worker 15:717 O 10 '24
How metals stand up against corrosion. Chem & Met Eng 31:77-8 Jl 14 '24; Same cond. Brass W 20:311-12 S '24
Influence of lead and tin on the brittle ranges of brass. D. Bunting. il Engineering 119: 368-70; Discussion. 341 Mr 20 '25
New uses of lead and tin. G: O. Hiers. Metal Ind 22:3 Ja '24
Recent extensive advance of the price of tin and its causes. Econ W n s 27:371 Mr 15 '24
Recovering tin from tin scrap. Chem Age 32: 395 S '24
Tin and the United States. Eng & Min J 117: 835 My 24 '24
Tin deposits of Chacaltaya, Bolivia. W. Lindgren. Econ Geol 19:223-8 Ap '24
Tin in 1924. Brass W 21:142 Ap '25
Tin; marketing and statistics. J. H. Lang. Eng & Min J 117:139 Ja 19 '24
Tin situation. Comm M 6:21-7 S '24; Same. Econ W n s 28:474-7 O 4 '24; Excerpts. Blast F & Steel Pl 12:451 O '24
Tin slightly detrimental to cast iron. C. E. Williams, C. E. Sims and C. A. Newhall. Foundry 52:5 Ja 1 '24
Tin supplies short. J. H. Lang. Eng & Min J 119:144-5 Ja 17 '25
See also Tin mines and mining; Tin plate

Analysis
Apparatus for the accurate volumetric determination of tin in canned foods. E. J. B. Willey. diag Soc Chem Ind J 43:70-2 Mr 28 '24
Determination of lead, copper, and tin in drosses. J: H. Hastings. Eng & Min J 118: 293-4 Ag 23 '24
Electrometric titration of antimony and tin by potassium dichromate. M. H. Fleysher. Am Chem Soc J 46:2725-7 D '24
Estimating the grade of tin concentrates. R. W. Gannett. chart Eng & Min J 118:380 S 6 '24

TIN alloys
Anti-friction bearing metals. P. W. Priestley. il Automobile Eng 14:225-30 Ag '24
Tin base alloys. W: Campbell. Metal Ind 22: 313-14, 355 Ag-S '24
See also Bronze

TIN cans
Corrosion of the tin container by canned foods. H. W. Powell and E. W. McHenry. Can Chem & Met 8:185-6 Ag '24
Large uses of steel in small ways; tin cans. il Iron Tr R 77:1092 O 29 '25
Recovering tin from tin cans; electrolytic process. I. Ginsberg. Iron Age 116:473-4 Ag 20 '25; Discussion. C. L. Mantell. 116: 1545 D 3 '25

Manufacture
Combination die for can top. S. A. McDonald. Mach 30:887 Jl '24
Design and construction of can dies. A. Mumper. diags Mach 30:200-1 N '23; Discussion. E: J. Rantsch. 30:535-6 Mr '24
Guarding the world's food supply. il Iron Age 116:331-4 Ag 6 '25
Mechanical features of salmon canning. M. L. Dodge. Mech Eng 47:612-13 Ag '25
Revolution in processes and costs. H. Hermani and C. E. Sifton. il Factory 35:553-6+ O '25
Soldering machine for tin cans. il Engineering 116:650-1 N 23 '23

TIN chloride
Tin-weighting skein silk and piece goods. H. R. Tisdale. Textile World 65:4213-14 Je 28 '24

TIN compounds
Researches on residual affinity and coordination; stannic derivatives of β-diketones. G. T. Morgan and H. D. K. Drew. Chem Soc J 125:372-81 F '24
Studies relating to metallo-organic compounds; compounds formed between alkyl tin halides and ammonia and the amines. C: A. Kraus and W. N. Greer. Am Chem Soc J 45:3078-83 D '23

TIN decorating company, Baltimore
Revolution in processes and costs. H. Hermani and C. E. Sifton. il Factory 35:553-6+ O '25

TIN metallurgy
Addition agents in tin refining electrolytes. E: F. Kern and E: A. Capillon. il Am Electrochem Soc Trans v 45 (preprint 27):353-69 Ap '24
Anti-flux for detinning. diag Chem & Met Eng 30:198 F 4 '24
Electrolytic refining of tin. J. R. Stack. il Am Electrochem Soc Trans v 45 (preprint 20): 279-87 Ap '24; Same. Brass W 21:143-4 Ap '25
Electrolytic tin. C: L. Mantell. Am Electrochem Soc Trans v 45 (preprint 19):269-78 Ap '24
Les gisements stannifères du plateau de Bauchi. L: F. Glaser. il map Chimie & Ind 10:1155-60 D '23
Recovering tin from tin cans; electrolytic process. I. Ginsberg. Iron Age 116:473-4 Ag 20 '25; Discussion. C. L. Mantell. 116: 1545 D 3 '25
Reducing tin ores with hydrogen. diag Chem & Met Eng 31:593 O 13 '24

TIN mines and mining

California
Early tin mining in California. H. E. West. il diag map Eng & Min J 117:55-7 Ja 12 '24

England
Development of tin mining. S. Furze. Engineer 140:293-4 S 18 '25; Same. Engineering 120:354-5 S 18 '25
Historical aspects of Cornish tin mining. Economist 98:778-9, 822-3 Ap 12-19 '24

Malaya
Malayan tin dredging results. Economist 101: 103 Jl 18 '25
Tin mining in Malaya in 1924 prosperous. Eng & Min J 120:533 O 3 '25

Nigeria
Les gisements stannifères du plateau de Bauchi. L: F. Glaser. il map Chimie & Ind 10:1155-60 D '23

TIN oxides
Quick method for the filtration of stannic oxide. Brass W 20:265 Ag '24
Solution of tin and antimony oxides. E. Stelling. Ind & Eng Chem 16:346 Ap '24

TIN plate
Exports of tin plate. Iron Age 115:737 Mr 5 '25
History of tinning, tin and tin plates. A. Eyles. Sheet Metal Worker 15:717 O 10 '24
How British export tin plate. J. Horton. il Iron Tr R 75:538-9 Ag 28 '24

TIN plate—*Continued*
Metals, tin plate and sheets for twenty-one years, 1903-1923. Iron Age 113:88 Ja 3 '24
Metals, tin plate and sheets for twenty-one years, 1904-1924. Iron Age 115:78 Ja 1 '25
Tinplate industry. Economist 99:139-40 Jl 26 '24
Welsh tin plate industry. Iron Age 115:119 Ja 8 '25
What it costs to make tin plate. Blast F & Steel Pl 11:581-2 N '23
See also Tinning

Manufacture

Dispelling drudgery in the hot mill. J: D. Knox. il diags Iron Tr R 76:503-6+ F 19 '25
Interesting history of tin plate manufacturing in the United States. W: Banfield. Iron Age 113:651 F 28 '24
Manufacture of tin plate in India. F. L. Estep. il diag Iron Age 114:1122-8, 1197-8+ O 30-N 6 '24; Same cond. Iron Tr R 75: 1173-6 O 30 '24
Manufacture of tin plates; a comparison of old and new tinning processes. E. L. Collis. il diags J Ind Hygiene 7:171-83 Ap '25
Manufacturing tin plate in India. map Iron Tr R 74:591-2 F 28 '24
Steel base for tin plate. Iron Age 113:1073 Ap 10 '24
Ueber verzinnmaschinen. W. Krämer. diags Stahl & Eisen 44:713-15 Je 19 '24

TIN plate mills

Employees

Battle on wage fundamentals. A. J. Hain. Iron Tr R 74:1450-1 My 29 '24
Wages and hours in the blast-furnace, Bessemer, open-hearth, and tin departments of the iron and steel industry, 1924. Monthly Labor R 19:116-19 Jl '24

TIN roofing. See Roofing, Tin

TINGLE process. See Paper making—Calcium polysulfide process

TINNING
Equipping the shop for retinning. Sheet Metal Worker 16:445 Jl 17 '25
New tinning compound. il Engineer 139:413-14 Ap 10 '25
Retinning cheese making equipment. A. Eyles. Sheet Metal Worker 16:488-9, 552-3 Jl 31, Ag 28 '25
Retinning dairy equipment. Sheet Metal Worker 16:361+ Je 19 '25
Retinning dairy equipment. A. Eyles. Sheet Metal Worker 15:243-4 Ap 25 '24
Retinning dairy equipment. T: Newton. Sheet Metal Worker 15:292 My 9 '24
Tinning wire part. A. Halvorsen. Mach 31:9 S '24
See also Tin plate

TINNITUS
Tinnitus and its relation to nerve deafness with an application to the masking effect of pure tones. J: P. Minton. Phys R 22: 506-9 N '23

TINODON
Mesozoic mammalia; tinodon and its allies. G: G. Simpson. bibliog il diag Am J Sci 5th ser 10:451-70 N '25

TINSEL
Manufacture of tinsel. C: H. Proctor. Metal Ind 23:63-4 F '25

TINTIC Standard mine. See Silver mines and mining—Utah

TIRE chains
Clearance demanded for tire chains. W. M. Wheeler. Bus Transportation 4:563 N '25
Cross-chains mended by machinery. il Bus Transportation 4:512 O '25

TIRE fabrics
Cotton and the automobile tire. R. E. Whalin. Comm & Fin 14:1813-14 S 16 '25
Twist in tire cord and some physical effects. H. P. Gurney and E. H. Davis. Textile World 68:219+ Jl 11 '25

Manufacture

Conveying system at the Winnsboro mills. C: M. Mumford. il Textile World 66:637+ Ag 2 '24
Ford experimenting with flax as cotton substitute in tire fabrics. Rubber Age 16:251 Ja 25 '25
New Stark mills, Hogansville, Ga. S. B. Lincoln. il plan Textile World 67:2348+ Ap 4 '25

TIRE gages. See Pressure gages, Tire

TIRE making machinery
Machines for building flat band tire casings. il India Rubber W 72:476 My '25
Supreme court rules against Seiberling. Rubber Age 15:45+ Ap 25 '24

TIRE pumps
Tire pumps interchangeable. diags Soc Auto Eng J 13:503 D '23

TIRE rims
Collapsible tire rims. il Automotive Ind 53: 424 S 10 '25
Drop-center rim suits balloon tires. H. Willshaw. diags Soc Auto Eng J 14:377-9 Ap '24
Wheel rims reduced to comparatively few forms at present time. P. M. Heldt. diags Automotive Ind 52:656-8 Ap 9 '25

Manufacture

Manufacture of automobile tire rims. il India Rubber W 70:579-80 Je '24
Thomson no. 45 automatic rim welder. il Am Mach 61:749 N 6 '24; Automotive Ind 51: 858 N 13 '24; Mach 31:234 N '24

Standards

S.M.M. & T. provisional standards; rims for pneumatic tyres for new equipment of commercial vehicles. diags Automobile Eng 15: 285 S '25
S.M.M. & T. provisional standards; rims for pneumatic tyres for new equipment of private cars. diags Automobile Eng 15:257 Ag '25

TIRES
Machine Hulse pour le réusinage des bandages de roues de wagons usagés. diags Génie Civil 87:50 Jl 11 '25

TIRES, Automobile
Adapting motor cars to low-pressure tires. J. E. Hale. il diag Soc Auto Eng J 15:501-6; Discussion. 507-10 D '24
Adoption of balloons by Ford means passing of fabric tires. Rubber Age 17:53 Ap 25 '25
Advances in balloon tire design. India Rubber W 72:397-9, 462-4 Ap-My '25
Approaching tire distribution from new point of view. S. D. Ormand. il Forbes 14:319-20+ Je 7 '24
Automotive industry accepts balloon tires—with many reservations. H. Chase. Automotive Ind 51:22-9 Jl 3 '24
Balloon and balloon-type tire market increasing rapidly. Rubber Age 14:375-6 F 25 '24
Balloon and balloon type tires. India Rubber W 69:371-2 Mr '24
Balloon tire name officially adopted. Automotive Ind 49:1123 N 29 '23
Balloon-tire problems discussed. Soc Auto Eng J 15:368-9 N '24
Balloon tire progress to date. India Rubber W 71:141-2, 213-14 D '24-Ja '25
Balloon-tire repair may be difficult. L. O. Grange. Soc Auto Eng J 14:367-8 Ap '24
Balloon tire shoes pinching car makers and dealers. H. P. Wilkin. India Rubber W 70: 501-2 My '24
Balloon tire situation puzzles car manufacturers. N. G. Shidle. Automotive Ind 50:749-52 Ap 3 '24
Balloon tire the tire of the future. G: W. Sutton, jr. il Am Exporter 94:89+ Je '24
Balloon tires affect car shipment. il Soc Auto Eng J 15:380-1 N '24; Abstract. Automotive Ind 51:757 O 30 '24
Balloon tires and riding quality. J. E. Hale. Soc Auto Eng J 14:379-80; Discussion. 380 Ap '24
Balloon tires and what they mean. il Sci Am 130:25 Ja '24

TIRES, Automobile—*Continued*
Balloon tires expected to increase rubber consumption. Automotive Ind 52:781 Ap 30 '25
Balloon tires for salesmen's cars. il Sales Management 6:593 F '24
Balloon tires necessitate slight changes in driving. H. W. Slauson. Automotive Ind 50: 982 My 1 '24
Balloons brought chaos to auto industry. E. V. Rickenbacker. Rubber Age 15:216+ Je 25 '24
Behavior of tire stocks by various aging methods. W. W. Vogt. Ind & Eng Chem 17:870-1 Ag '25; Abstract. India Rubber W 77:657 Ag '25
Correction of balloon-tire shimmying. R. B. Day. Soc Auto Eng J 15:506-7; Discussion. 507-10 D '24
Development of balloon tires. G: W. Sutton, jr. il Am Exporter 94:87+ F '24
Drop center tires and rims. il diag India Rubber W 72:525-6 Je '25
Effect of balloon tires on braking. Soc Auto Eng J 14:469-70 My '24
Effect of tire resistance on fuel consumption. W. L. Holt and P. L. Wormeley. U S Bur Stand Tech Pa 283:213-23 '25; Abstract. Automotive Ind 52:902-4 My 21 '25
Effects of balloon tires on car design. J. W. White. il diags Soc Auto Eng J 16:205-8; Discussion. 136-8, 620-6 F, Je '25
Elmes tire-applying presses, 325-ton. il Am Mach 63:523-4 S 24 '25
Evolution of the balloon tire. S. P. Thacher. il Textile World 65:2472 Ap 12 '24
Features of 1923 world tire trade. E. G. Holt. Rubber Age 14:340 F 10 '24
Firestone's policies on balloons outlined. Automotive Ind 50:536 F 28 '24
Front-wheel shimmying. W. R. Strickland. diags Soc Auto Eng J 16:277-31 F '25; Abstract. Automotive Ind 52:176 Ja 29 '25; Discussion. Soc Auto Eng J 16:134-5 F '25
Glimpses of balloon-tire progress. B. J. Lemon. il diags Soc Auto Eng J 16:172-82 F '25; Same cond. Automotive Ind 52:215-19 F 5 '25; Excerpts. Rubber Age 16:319 F 25 '25; Discussion. Soc Auto Eng J 16:136-8, 626-9 F, Je '25
How balloon tires may affect the industry. H. P. Wilkin. India Rubber W 69:287-8 F '24
How Uncle Sam buys tires. Bus Transportation 3:69 F '24
Integral bead tire put into production. il Automotive Ind 51:525 S 18 '24
Lee tire drops 9,000 dealers to increase profits. C: G. Muller. Ptr Ink 129:10+ D 11 '24
Low pressure tires of the past. India Rubber W 77:647-9 Ag '25
Miller flat shape balloon tire. diag Automotive Ind 53:12 Jl 2 '25
Natural vibration period of tires is cause of corrugations. R. J. Walker. Eng N 94:776-7 My 7 '25; Abstract. Sci Am 133:332+ N '25
New Star "loair" balloon cord. J: A. Christie. il Rubber Age 14:458-9 Mr 25 '24
Passenger car brake and tire equipment. Automotive Ind 52:355 F 26 '25
Pneumatic-tire elements and development. L. J. D. Healy. Soc Auto Eng J 16:421-5; Discussion. 425-6 Ap '25
Practical rubber saving. J. J. Johnson. India Rubber W 72:717-18 S '25
Present situation regarding balloon tires. H. P. Wilkin. India Rubber W 71:73-4 N '24
Present status of the low pressure tire. il India Rubber W 69:143-5 D '23
Prevention of shimmying. R. B. Day. il diags Soc Auto Eng J 16:192-4 F '25; Abstract. Automotive Ind 52:179-80 Ja 29 '25; Discussion. Soc Auto Eng J 16:136-8 F '25
Public's and the car-builders' attitude toward balloon tires. J. E. Hale. il diag Soc Auto Eng J 13:461-4 D '23; Same. Rubber Age 14:257-9 Ja 10 '24; Discussion. Soc Auto Eng J 13:464-5 D '23
Putting the tire inside the wheel. il Sci Am 131:107 Ag '24
Question of exclusive tire sales territory. H. P. Wilkin. India Rubber W 70:649-50 Jl '24
Relation of road surface to automobile tire wear. H. V. Carpenter. Eng & Contr (R & S) 64:33-9 Jl 1 '25
Report on research in relation to tires presented by the Bureau of standards. Automotive Ind 49:1009-11 N 15 '23
Riding on air. P. Neville. il Dun's Int R 43: 48-51 Jl '24
Rubber and tire trade. Moody's Inv Serv 16: 73-6 F 14 '24
Simplification of tires. Rubber Age 17:165-7 Je 10 '25
Tire and rim division report. diags Soc Auto Eng J 14:54-6, 193-4 Ja-F '24
Tire trade practices in Australia. J. W. Sanger. U S Bur For & Dom Com Trade Information Bul 176:1-6 '24
Two new tires developed in England. il Automotive Ind 50:299 F 7 '24
Tyre as part of the suspension system. A. Healey. diags Automobile Eng 14:406-14 D '24; Abstracts. Automotive Ind 51:1046-8 D 18 '24; Engineering 118:805-6 D 12 '24
Use of nitrogen for filling tires shows some promise. Chem & Met Eng 30:985 Je 23 '24
What people want to know about balloon tires. L. H. McKilwin. Rubber Age 14:415-16 Mr 10 '24
What the service department needs to know about balloon tires; abstracts. J. E. Hale. Soc Auto Eng J 15:480-1 D '24; Automotive Ind 51:920-1 [tables. p. 922-3] N 27 '24; Bus Transportation 3:579 D '24; Discussion. Soc Auto Eng J 15:481 D '24
Wheel shimmying; its causes and cure. O: M. Burkhardt. diags Soc Auto Eng J 16: 189-91 F '25; Excerpts. Automotive Ind 52:176-7 Ja 29 '25; Discussion. Soc Auto Eng J 16:134-5 F '25; Correction. 16:354 Mr '25
Why not put the tire business on business basis? H. P. Wilkin. India Rubber W 69:213-15 Ja '24

See also Automobiles—Wheels; Tire chains; Tire fabrics; Tire rims; Tires, Motor bus; Tires, Motor cycle; Tires, Motor truck

Advertising

I can't advertise because I can't spend enough. W. B. Edwards. Ptr Ink 132:89-90 Ag 27 '25
Ne plus ultra of the advertising manager's dream; Kelly-Springfield advertising. Ptr Ink 132:10+ Jl 30 '25
Six-letter campaign that increased sales twenty-nine percent; Gates rubber company. H. D. Thoreau. Sales Management 7:1597-8+ O '24

Cost

Tire costs for highway transportation; comparative cost of tires for trucks, motor buses and passenger cars. India Rubber W 71:81 N '24

Manufacture

Building balloon tires. il India Rubber W 69: 217-18 Ja '24
Chemistry of motor tire building. il Chemicals 24:10-11+ Ag 3 '25
Continuous production of inner tubes by tubing machine. plan India Rubber W 71:272-3 F '25
Controlling wastes in the tire plant. il India Rubber W 69:146-8 D '23
Cooling water for tire vulcanizers. il India Rubber W 70:583-4 Je '24
Curing tires at low temperatures. J. M. Ball. India Rubber W 70:642 Jl '24
How automobile tire molds are made. C: O. Herb. il diags Mach 30:497-500 Mr '24
Machine-made inner tubes. il India Rubber W 71:145-6 D '24
Machines and methods used in the manufacture of the fabric tire. il Sci Am 130:245 Ap '24
Making solid tires from latex. R. Ditmar. Chem & Met Eng 30:353 Mr 3 '24
Manufacture of automobile tire rims. il India Rubber W 70:579-80 Je '24

TIRES, Automobile—Manufacture—*Continued*
New method of manufacturing cushion tires. diags Rubber Age 15:382-3 Ag 25 '24
Physics of rubber tyre manufacture; abstracts. W. Makower. Engineering 119:626 My 22 '25; Automotive Ind 52:1062-3 Je 18 '25
Problems of the smaller tire manufacturer. J. J. Dawson. India Rubber W 72:400-2 Ap '25
Process for flat building and suction shaping cord tires. il Rubber Age 17:370 S 10 '25
Seiberling-State tire machine patent invalid. India Rubber W 70:522 My '24
Selecting material handling methods for economical production; Dunlop tire and rubber corporation. G. L. Montgomery. il plan Chem & Met Eng 32:427-31 Ap '25
Stretching of cotton in pneumatic tires. A. E. Friswell. Rubber Age 14:417 Mr 10 '24
Tire factory manufacturing costs. J. J. Dawson. India Rubber W 70:436-8, 503-5, 576-8, 653-4 Ap-Jl '24
Wages and hours of labor in the automobile tire industry 1923. U S Bur Labor Statistics Bul 358:1-58 '24; Excerpt. Monthly Labor R 17:1093-5 N '23
Waste elimination; plant program with far-reaching results. H. S. Firestone. il Factory 35:35-8 Jl '25
Water cure of inner tubes. il India Rubber W 72:457-8 My '25

Patents

Balloon tire patent. Automotive Ind 52:915 My 21 '25
Balloon tire patent. Automotive Ind 53:182, 340-1 Jl 30, Ag 27 '25
Granting of first United States patent on balloons causes tangle. Rubber Age 17:147+ Je 10 '25
Putnam balloon tire patent. diag India Rubber W 72:585-7 Jl '25
Send makers notice of balloon tire right. Automotive Ind 52:996 Je 4 '25

Prices

Firestone announcement of tire price advance followed by others. Rubber Age 17:75+ My 10 '25

Retreading

Is tire retreading a failure? il Sci Am 131:21 Jl '24

Size

Another balloon tire size is approved. Automotive Ind 52:125 Ja 15 '25
Present balloon tire sizes are criticised. C. Macbeth. diags Automotive Ind 49:1267-9 D 20 '23
Ridiculous to have 23 balloon tire sizes. J. E. Hale. Automotive Ind 50:709-10; Discussion. 710 Mr 27 '24
12 new balloon tire sizes are approved. Automotive Ind 50:310 F 7 '24
Twenty-three balloon tire sizes add to burden of tire industry. diags Automotive Ind 50: 512-13 F 28 '24

Standards

Balloon-tire pressures recommended. Soc Auto Eng J 16:497 My '25
Cooperation urged in tire standards work. Automotive Ind 50:245-6 Ja 31 '24
International balloon tire and rim standards are proposed. C. Macbeth. diags Automotive Ind 49:949-52 N 8 '23
International standardization conference on balloon tires urged. F. L. Rapson. Automotive Ind 50:629-30 Mr 13 '24
Is any progress being made on balloon tire standardization? H. Chase. diags Automotive Ind 51:996-1000 D 11 '24
Work of setting up balloon tire standards scarcely started. N. G. Shidle and H. Chase. Automotive Ind 50:163-8 Ja 24 '24

Statistics

American tire and tube production—1922 and 1923. India Rubber W 70:431-2 Ap '24
American tire exports from 1921 to 1923; tabulation. Automotive Ind 50:465 F 21 '24
American tire exports from 1922 to 1924. Automotive Ind 52:431 F 26 '25
Analysis of tire production and shipments. A. R. Burnet. India Rubber W 71:147-8 D '24
Car sale decrease hits tire makers. Am Ind 24:17 Jl '24
Dealers' stocks of automobile tires. India Rubber W 71:215-16 Ja '25
Dealers' stocks of tires on April 1. Rubber Age 17:92-5 My 10 '25
Export parts sales likely to break record in next six months. G: S. Quisenberry. Automotive Ind 51:411-14 Ag 28 '24
Exports of cars, trucks and tires for September, 1924. Automotive Ind 51:898-9 N 20 '24
Italian consumption of crude rubber increased 2,000 tons. Rubber Age 16:147 D 10 '24
Position of tire industry in 1923. Textile World 65:781 F 2 '24
Production of automobile and other rubber tires in the United States in 1923. Econ W n s 28:482-3 O 4 '24
Rubber association monthly tire statistics. See monthly numbers of India rubber world
Rubber stocks. Moody's Inv Serv 17:37-8 Ja 29 '25
United States motor vehicle tire industry. India Rubber W 73:8-10 O '25
United States tire industry. India Rubber W 71:7-9 O '24
World's production of and export trade in automobile tires. E. G. Holt. Econ W n s 27: 407 Mr 22 '24; Same. Rubber Age 15:14 Ap 10 '24; Same abr. Automotive Ind 50:679 Mr 20 '24

Taxation

Fight for relief from the federal tire tax. W. Fawcett. Rubber Age 14:461-2 Mr 25 '24

Testing

Car manufacturer's experiences with balloon tires. E. A. De Waters. Soc Auto Eng J 16:342-4 Mr '25
Concrete roads greatly reduce tire wear. il Automotive Ind 52:670-1 Ap 9 '25
Dynamometer tests of automobile tires. W. L. Holt and P. L. Wormeley. il diag U S Bur Stand Tech Pa 240:559-79 '23
Rear-tire slip tests at Mason laboratory; abstract. E. H. Lockwood. Mech Eng 47:48-9 Ja '25
Relation of road type to tire wear. W. C. McNown. Nat Research Council Bul v 8, pt 1: 43-53 Mr '24
Research on rubber tires. W. L. Holt. il Nat Research Council Bul v 8, pt 1:58-63 Mr '24
Testing of resistance to tearing. H. L. Heathcote. Soc Chem Ind J (Chem & Ind) 44:109-10 Ja 30 '25
Tests indicate greater rolling resistance for balloon tires. Automotive Ind 50:722-3 Mr 27 '24
Tests show tire life lowered by use of reclaimed rubber. Automotive Ind 53:786-7 N 5 '25

Transportation

Packing tires and tubes for export. J: S. Barker. il India Rubber W 71:338 Mr '25

Tread design

Are tire treads distinctive? trade-mark registration of Goodyear diamond tread refused. Ptr Ink 127:115-16 Ap 3 '24
Can mechanical features of rubber goods qualify as trade-marks? test case on tire treads brought by Goodyear. W. Fawcett. Rubber Age 15:52-3 Ap 25 '24
Tire treads can be registered as trade-marks. Ptr Ink 130:103-4 F 5 '25

TIRES, Bicycle

Manufacture

Bicycle tire and inner tube manufacture. B. W. Elberson. Rubber Age 15:458 S 25 '24
Manufacture of cycle tires. il India Rubber W 69:227-8 Ja '24

TIRES, Locomotive

Fuel oil tire heater. diag Ry Mech Eng 99: 120 F '25
Mahrvel vacuum torch and tire heater. il diag Ry Mech Eng 99:121 F '25

TIRES, Locomotive—*Continued*
Method of handling tire and wheel work. H. K. Griggs. diag Am Mach 61:587-8 O 9 '24; Discussion. 61:933; 62:28 D 11 '24, Ja 1 '25
Unique method of heating locomotive wheel tires for removal. J. H. Gallant. il Ind Eng 83:44-5 Ja '25

Failures
Lytham railway accident. Engineering 119: 513-14 Ap 24 '25; Engineer 139:457 Ap 24 '25

Manufacture
Locomotive tire practice on the Santa Fé. F. H. Colvin. diags Am Mach 60:697-8 My 8 '24
Manufacture of railway tires fifty years ago. Engineer 137:602-3 My 30 '24
Railway tire boring machine. il diags Engineer 137:126-7 F 1 '24

Repair
Back-shop notes. F. C. Hudson. Am Mach 61:909 D 11 '24; Discussion. F. M. A'Hearn. 62:432 Mr 12 '25
Grinder makes practical the welding of locomotive tires. R. R. Webster. il Coal Age 27:766 My 21 '25
Three years' experience in repairing worn locomotive tires. il Coal Age 27:587 Ap 16 '25

TIRES, Motor bus
British bus tests show economy of pneumatic tires. Automotive Ind 52:890 My 21 '25
Buses, trucks, and crude rubber consumption. India Rubber W 73:73-4 N '25
Getting tire service in California. Bus Transportation 3:59-60 F '24
Increasing bus tire mileage. il Elec Ry J 66: 361-3 S 5 '25
Simple device for detaching or mounting tires. il Bus Transportation 4:447 S '25
Six plies carry 2,000 lb. il Bus Transportation 4:401 Ag '25
Tire knowledge that means economy. C. B. Orr. il Bus Transportation 3:458-60 O '24
Tires—their buying and maintenance. il Bus Transportation 4:125-6 Mr '25

Cost
Tire costs for highway transportation; comparative cost of tires for trucks, motor buses and passenger cars. India Rubber W 71:81 N '24

Records
Performance records feature tire maintenance practice. il Elec Ry J 65:449-50 Mr 21 '25

Repair
Making tire repair jobs simple. il Bus Transportation 4:289-90 Je '25
Repair device for large section tires. Bus Transportation 4:347+ Jl '25
Tire retreads made from scrap rubber. diags India Rubber W 73:74 N '25

Standards
Casings and tubes should be standardized. F. D. Howell. il Bus Transportation 4:4 Ja '25
Need of standardizing motorbus tires and tubes. il India Rubber W 72:719 S '25

TIRES, Motor cycle
British tests show merits and faults of motorcycle balloons. Rubber Age 16:187 D 25 '24

TIRES, Motor truck
Buses, trucks, and crude rubber consumption. India Rubber W 73:73-4 N '25
Coming of the pneumatic-tyred lorry. H. T. Chapman. il Cassier's Ind Management 11: 74-5 F 7 '24
Present status of the truck tire tests of the Bureau of public roads. E. B. Smith. Pub Roads 6:129-30 Ag '25; Same. Munic & Co Eng 69:162-4 S '25
Tire and truck impact tests. Soc Auto Eng J 17:35-6 Jl '25
Truck tires and highway wear. J. C. Sproull. Munic & Co Eng 67:319-20 D '24

Cost
Tire costs for highway transportation; comparative cost of tires for trucks, motor buses and passenger cars. India Rubber W 71:81 N '24

Manufacture
Manufacture of solid tires. il India Rubber W 70:720-1 Ag '24

Testing
Cushioning qualities of motor truck tires. Pub Roads 5:19 Je '24

TIRES, Steel
Manufacture of railway tires fifty years ago. Engineer 137:602-3 My 30 '24
See also Tires, Locomotive

TISSUE paper
Simplification in tissue paper industry. Paper Tr J 81:84 O 29 '25

TITANATES
See Alkyl titanates

TITANIA. See Titanium oxide

TITANIC acid
Behaviour of titanic acid towards hydrochloric acid. A. M. Morley and J: K. Wood. Chem Soc J 125:1626-34 Ag '24

TITANIUM
Aluminum and titanium as deoxidizers. G: F. Comstock. il Iron Age 114:1477-9 D 4 '24
Comparison of the deoxidation effects of titanium and silicon on the properties of rail steel. G: K. Burgess and G. W. Quick. U S Bur Stand Tech Pa 241:581-635 '23
Critical studies on the fusion of rare-metal ores; the pyrosulfate fusion of titanium ores. G. W. Sears and L. Quill. Am Chem Soc J 47:922-9 Ap '25
Crystal structure of titanium and chromium. R. A. Patterson. Phys R 26:56-9 Jl '25
Einige versuche über den einfluss eines titanzusatzes zum rohguss auf den metallurgischen verlauf des temperprozesses. E. Piwowarsky. il Stahl & Eisen 44:745-8 Je 26 '24
Florida's rare minerals won the world war. G: M. Chapin. il Manuf Rec 85:73-7 F 21 '24
Marketing of titanium ores. R. B. Williams. Eng & Min J 117:645-6 Ap 19 '24
Measurement of oxidation potentials at mercury electrodes; ter- and bivalent titanium. G: S. Forbes and L. P. Hall. diag Am Chem Soc J 46:385-90 F '24
Ueber titan im grauguss. E. Piwowarsky. il Stahl & Eisen 43:1491-4 D 6 '23
Die verwendung von titan in der stahlerzeugung. F. Rapatz. Stahl & Eisen 44:725 Je 19 '24
See also Rutile

Analysis
Methods of analysis and reports of collaborators on the analysis of titanium pigments. Am Soc T M Pro 24 pt 1:443-51 '24
Titanium. J. W. Marden. U S Bur Mines Bul 212:281-99; Bibliography. 299-300 '23
Volumetric estimation of titanium. A. M. Morley and J: K. Wood. Chem Soc J 125: 518-20 Mr '24

TITANIUM bronze
Gives information on titanium bronze. C: Vickers. Foundry 53:833-4 O 15 '25

TITANIUM chloride
Analysis of dye mixtures by means of titanous chloride. W. C. Holmes. Am Dyestuff Rep 14:415-18 Je 29 '25
Analysis of synthetic indigo by means of titanous chloride. F. L. English and W. S. Calcott. Ind & Eng Chem 17:300-3 Mr '25
Electrometric titrations, with special reference to the use of titanous chloride for ore analysis. A. McMillan and W. C. Ferguson. Soc Chem Ind J 44:141-2 Mr 27 '25
Titanous chloride and nitric acid. M. Coblens and J. K. Bernstein. J Phys Chem 29:750-2 Je '25
Titanous salts as reducing agents. E. Knecht. Chem Soc J 125:1537-46 Jl '24; Abstract. Soc Dyers & Col J 40:341-2 O '24

TITANIUM compounds
See also Alkyl titanates
TITANIUM nitride
Nitrides as a possible route to commercial production of cyanides. F. v. Bichowsky. flow sheet Chem & Met Eng 29:1098-1101 D 17 '23
TITANIUM oxide
Luminescence of titanium oxide. E. L. Nichols. Phys R 22:420-4 N '23
Organic reactions at the surface of titania; adsorption of certain gases by titania. F. Bischoff and H. Adkins. Am Chem Soc J 47:807-26 Mr '25
Production and properties of titanium oxide. R. H. Monk and C. Whittemore. il Can Chem & Met 9:153-6 Jl '25
Titania jellies. S. Klosky and C. Marzano. J Phys Chem 29:1125-8 S '25
See also Pigments; Rutile; Titanium white
TITANIUM white
Possible production of titanium white from Canadian sources. H. A. Leverin. Can Chem & Met 9:198-9 S '25
United States government specification for titanium pigment, dry and paste. U S Bur Stand Circ 163:1-11 '24
TITRATION. See Volumetric analysis
TIVERTON, England
Water supply
Public water supply dating from 1250. Eng N 95:344 Ag 27 '25
TNT. See Trinitrotoluene
TNX. See Trinitroxylene
TOBACCO
Chemical composition of tobacco smoke. Sci Am 133:51 Jl '25
Chemical factors determining the quality of tobacco. V. Graham and R. H. Carr. Am Chem Soc J 46:695-702 Mr '24
Cigar leaf tobacco in the United States. Comm M 5:21-9 F '24
Layout and design factors in a tobacco stripping plant. C. C. Muhs. Eng N 92:717-18 Ap 24 '24
Tests of carbon monoxide hazards from tobacco smoke give negative results. G. W. Jones, W. P. Yant and L. B. Berger. Heat & Ven 20:55 D '23
Physiological effects
Value of tobacco smoke as a disinfectant. Sci Am 132:419+ Je '25
Prices
Factors in the price of tobacco. H. A. Haring. Annalist 23:604+ My 26 '24
TOBACCO industry and trade
Piedmont section of the Carolinas. R. G. Macy. il Management & Adm 8:167-71 Ag '24
Tobacco trade of Spain, Portugal, and the Canary Islands. T. L. Hughes. map U S Bur For & Dom Com Trade Information Bul 315: 1-21 '25
See also Cigarette industry; Cigarettes; Cigars
Advertising
American tobacco gets customers to try backward sellers. D. Hubbard. il Ptr Ink M 7: 78+ D '23
Government uses advertising to combat substitution; Porto Rico tobacco. R. Rockafellow. Ptr Ink 126:105-6 Mr 27 '24
How Edgeworth copy is kept perennially young. J. True. Ptr Ink M 7:54+ D '23
Irvin Cobb turns copy writer. B. F. Berfield. Ptr Ink 132:10+ Ag 27 '25
Will Rogers gives testimonial copy a new twist. Ptr Ink 130:33-4 F 12 '25
Statistics
International trade in leaf and manufactured tobacco. T. L. Hughes. U S Bur For & Dom Com Trade Promotion Ser 7:1-299 '25
South's tobacco production, value and exports. Manuf Rec 86:214 pt 2 D 11 '24
Tobacco consumption the present year. Comm & Fin Chr 118:2378 My 17 '24
Tobacco, 1921-1924. Survey of Cur Business 30:144-5 F '24 [continued semiannually]
Finland
Tobacco trade of the Scandinavian countries and Finland. T. L. Hughes. U S Bur For & Dom Com Trade Information Bul 294: 31-40 '24
Georgia
Georgia finds tobacco profitable. Manuf Rec 86:88 Jl 24 '24
Tobacco industry has created a new spirit in south Georgia farming. J. M. Ashley. il Manuf Rec 88:64-5 Ag 27 '25
Great Britain
Tobacco companies' profits. Economist 100: 292-3 F 14 '25
Tobacco trade. Economist 101:261-2 Ag 15 '25
New York (city)
Tobacco products industry in New York and its environs. L. W. Killough. 58p Regional plan of New York and its environs, New York '24
St Louis
World's largest tobacco center. Am Ind 26:32-3 O '25
Scandinavia
Tobacco trade of the Scandinavian countries and Finland. T. L. Hughes. U S Bur For & Dom Com Trade Information Bul 294: 1-30 '24
United States
American tobacco exports in 1925. Comm M 7:14-15 S '25
America's greatest tobacco exporting city; Newport News, Va. Manuf Rec 86:79-80 N 13 '24
Autumn industries. Moody's Inv Serv 17:278-9 Ag 20 '25
Conditions in the American tobacco industry. Econ W n s 30:9-11 Jl 4 '25
Prosperous tobacco industry. Nat City Bank p 9-10 Jl '25
Tobacco center leaves New York. Am Ind 25: 47 D '24
Tobacco industry in the United States. Comm M 6:22-9 Mr '25
Tobacco manufacturing companies. Moody's Inv Serv 17:86 Mr 12 '25
Tobacco oldest and most American of our industries. C. L. Franklin. il Manuf Rec 86: 207-13 pt 2 D 11 '24
Tobacco outlook for 1925. Manuf Rec 88:66 O 22 '25
Tobacco ranks fourth in export value. Manuf Rec 86:83 Ag 28 '24
Tobacco trade. Moody's Inv Serv 16:133-6, 166; 17:233-4, 354 Mr 27, Ap 24 '24, Jl 16, O 29 '25
TOBACCO pipes
Hard rubber pipe bits. il India Rubber W 72: 465-6 My '25
Advertising
Demuth advertises pipe guarantee like insurance policy. Ptr Ink 126:25-6+ Mr 27 '24
TOGA towel company
Smoothing the way for a radically new product. Ptr Ink 128:139-40 Jl 31 '24
TOILET goods
Hidden demonstrators unfair to consumer and advertiser. J: A. Murphy. Ptr Ink 125:3-4+ D 13 '23
How we are preparing the ground for future advertising. C. B. Dicks. Sales Management 8:551-2+ Ap 4 '25
Toilet articles makers approve code of ethics at thirty-first annual meeting of the American manufacturers of toilet articles. Oil Paint & Drug Rep 107:22+ Ap 27 '25
Trade-marks for perfumes, toilet articles and soaps. H. G. Hunt, comp. 362p American manufacturers of toilet articles, New York '25

TOILET goods—*Continued*
World trade in toilet preparations. U S Bur For & Dom Com Trade Information Bul 344:1-70 '25

Advertising

Overcoming dealer resistance to sell three new products; a package idea that sold Fracy line. D. Gridley. il Ptr Ink M 8:25+ Mr '24

TOILET rooms

See also Bathrooms; Cars—Toilet rooms; Lavatories; Public comfort stations; Water closets

Ventilation

Ventilation of toilet rooms. R. M. Starbuck, jr. diags plan Dom Eng 113:19-22+ O 10 '25

TOKIO, Japan
Tokyo as it appears a year after the great earthquake. il Dun's Int R 44:37-40 N '24

Hotels

Imperial hotel, Tokyo, Japan. J. Floto. il Arch Rec 55:118-23 F '24
Reflections on the Tokyo disaster. L: H. Sullivan. il Arch Rec 55:113-17 F '24

Rapid transit

Fifty-mile subway system for Tokyo is virtually assured. map Eng N 94:871-2 Je 11 '25

TOLEDO, Ohio

Railroads

Michigan Central yard at Toledo expedites interchange. E. R. Lewis. il diags plans Ry Age 78:1509-13 Je 20 '25

Rapid transit

Eight cents in Toledo. Elec Ry J 63:160 Ja 26 '24
Loss to stabilizing fund in Toledo. Elec Ry J 65:635-6 Ap 18 '25
Mr Doherty puts it up to Toledo. Elec Ry J 65:923-4 Je 13 '25
Rerouting proposals in Toledo approved. Elec Ry J 63:557 Ap 5 '24
Toledo board against Doherty plan. Elec Ry J 65:785-6 My 16 '25

Water supply

Notes on Toledo's water supply problem. W. J. Sherman. Munic & Co Eng 69:133-5 S '25
River or lake water for Toledo, Ohio? Eng & Contr (W W) 63:1020 My 13 '25

TOLEDO, Spain
Little tour in Spain. L: La Beaume. il Am Inst Arch J 12:379-92 S '24

TOLERANCE
American standard screw threads. Am Mach 61:457-60 S 18 '24
Basic allowance and tolerance system. W. L. Hindman. diags Mach 31:933-7 Ag '25; Discussion. 32:93-4, 231, 237, 239 O-D '25
Basic principle of allowances and tolerances. W. L. Hindman. Mach 31:634 Ap '25
Dimensional tolerances. Soc Auto Eng J 14:53-4 Ja '24
Establishing manufacturing tolerances of gearing. H. Hoisington. Am Mach 63:267-9 Ag 13 '25
Example of unilateral tolerance. Am Mach 60:375, 732 Mr 6, My 15 '24
Importance of stating tolerances. N. G. Near. Mach 30:441 F '24
Measuring systems and tolerance limits. P. J. Darlington. diags Mech Eng 47:903-5 N '25
La mesure industrielle des longueurs; étalons de mesures et systèmes à tolérances. H. Stroh. il diags Génie Civil 84:594-7, 615-17 Je 21-28 '24
Method of indicating tolerance limits on drawings. Mech Eng 47:302, 513 Ap, Je '25
Proposed tolerances for ground thread taps. C. M. Pond. Am Mach 61:25 Jl 3 '24; Discussion. H. C. Hungerford. 61:658 O 23 '24
Proposed tolerances on plug gages. Am Mach 61:184 Jl 31 '24
Requirements of a system of limits. M. E. Steczynski. diags Sibley J 38:139-46+ Je '24
Rules for dimensioning with tolerances. Mach 30:952 Ag '24
Some limitations on manufacturing to close limits. B. H. Blood. il diags Mech Eng 46: 186-8+ Ap '24; Same. Iron Tr R 74:1305-8 My 15 '24; Same cond. Iron Age 113:927-9 Mr 27 '24; Excerpt. Am Mach 60:608 Ap 24 '24
Standard tolerances and allowances for machined fits; first report of A.S.M.E. committee. diags Mech Eng 45:699-702 D '23
Standardizing tolerances for taps. W. Daley. Am Mach 60:217-19 F 7 '24; Discussion. 60: 593-4, 703 Ap 17, My 8 '24
System of limits for different kinds of fits. C. D. Albert. diag Mech Eng 47:901-3 N '25; Discussion. E. C. Peck. 47:1165-6 D '25
Taps with ground threads; S.A.E. & U.S. standards. Mach 31:436a F '25
Tolerances for ground thread taps; U.S. and S.E.A. standard. Mach 30:721 My '24
Tolerances for hand taps; data sheets. Mach 31:362a Ja '25
Die tolerierung der dynamobleche. E. Lasswitz. Elektrotech Zeit 45:481-4 My 15 '24
Two-tenths tolerance on hobs. F. C. Hudson. Am Mach 62:663 Ap 23 '25
Unilateral and bilateral tolerances as applied to interchangeable manufacture. H. W. Bearce. diag Mech Eng 47:485-7 Je '25
Unilateral system of tolerances. E. C. Peck. Mech Eng 45:697-9 D '23
When ordering brass sheet, rod or tube. Iron Age 114:503-4 Ag 28 '24

See also Fits (machinery)

TOLIDINE
Readjustment of present orthotolidin standards for chlorine. H: F. Muer and F. E. Hale. Am Water Works Assn J 13:50-69 Ja '25

TOLL bridges. See Bridges—Tolls

TOLL roads. See Roads—Tolls

TOLOXY-PROPIONIC acids
Beta-toloxy-propionic acids and the corresponding chromanones. S. G. Powell and N. G. Johnson. Am Chem Soc J 46:2861-3 D '24

TOLUENE
Distillation et rectification; mélange de benzène, toluène et métaxylène. L. Gay. Chimie & Ind 10:811-28, 1026-42 N-D '23
Electrochemical oxidation of toluene to benzaldehyde. C: A. Mann and P. M. Paulson. bibliog Am Electrochem Soc Trans v 47 (preprint 3):31-42 Ap '25
Mercuration of aromatic substances; toluene. S: Coffey. Chem Soc J 127:1029-32 My '25
Researches on sulphuryl chloride; the influence of catalysts on the chlorination of toluene. O. Silberrad, C: A. Silberrad and B. Parker. Chem Soc J 127:1724-31 Jl '25
Solubility of benzoic acid in benzene and in toluene. J: Chipman. Am Chem Soc J 46: 2445-8 N '24
Sorption of toluene and acetic acid and their mixtures by carbon. A. M. Bakr and J. W. McBain. Am Chem Soc J 46:2718-25 D '24
Ternary systems; silver perchlorate, toluene and water. A. E. Hill and F: W. Miller, jr. Am Chem Soc J 47:2702-12 N '25

See also Dinitrotoluene; Trinitrotoluene

TOLUENESULFONCHLOROAMIDES
Hydrolysis of the *p*-toluenesulphonchloroamides in water. F: G: Soper. Chem Soc J 125:1899-1910 S '24

TOLUENESULFONIC acids
Derivatives of the four isomeric sulphonic acids of *m*-tolyl methyl ether. R. D. Haworth and A. Lapworth. Chem Soc J 123: 2982-96 N '23
Sodium 6-chloro-5-nitro-*m*-toluenesulphonate; a new reagent for potassium. H. Davies and W: Davies. Chem Soc J 123:2976-82 N '23

TOLUENESULFONYL chloride
Behaviour of nitrophenols with *p*-toluenesulphonyl chloride. S. M. Sané and S. S. Joshi. Chem Soc J 125:2481-4 D '24

TOLUIDINE
Action of sulfur upon para-toluidine in the presence of litharge; thio-para-toluidine, its constitution and some new derivatives. M. T. Bogert and M. R. Mandelbaum. Am Chem Soc J 45:3045-55 D '23
Colour test for aniline and toluidine. H. D. Murray. Soc Dyers & Col J 41:148 Ap '25
Toluidine derivatives; quantitative preparation of 5-iodo-2-aminotoluene and some of its derivatives. R. M. Hann and J. F. T. Berliner. Am Chem Soc J 47:1709-12 Je '25
Utilization of para-toluidine in the synthesis of aromatic esters of the novocaine type. M. A. Soderman and T. B. Johnson. Am Chem Soc J 47:1390-5 My '25

TOLUQUINONE
Action of azides on toluquinone. F: D. Chattaway and G: D: Parkes. Chem Soc J 127: 1307-11 Je '25

TOLYL acetates
Action of sodium on the acetates of *o*- and *p*-cresol. R: I: E: Hall. Chem Soc J 125:2266-8 N '24

TOLYLAMIDES
Oxime of mesoxamide (*iso*nitrosomalonamide) and some allied compounds; structural and stereo-isomerism in the methyl ethers of the *p*-tolyl derivatives. A. Plowman and M. A. Whiteley. Chem Soc J 125:587-604 Mr '24

TOLYLSEMICARBAZIDE
4-para-tolylsemicarbazide and certain derivatives. A. S. Wheeler and R. W. Bost. Am Chem Soc J 46:2813-16 D '24

TOMADELLI electronic corporation
Tomadelli not enjoined. Elec W 83:1299 Je 21 '24

TOMATOES
Tomato canneries multiply in the Ozarks. T. Shiras. Manuf Rec 88:81 Ag 13 '25

TOMBS
Family mausoleum, Asheville, N.C. diags plan Concrete 23:198 N '23
Family tomb; student work, Beaux-arts institute of design. il Am Arch 125:249, 251-2 Mr 12 '24
Glenwood mausoleum of permanent construction. il diags plan Concrete 23:200-3 N '23
Older than Tutankhamen; tomb near Byblos. il Sci Am 131:240-1 O '24

TOMBSTONES
Seven examples of old lettering on stone; photographs by G. H. Van Anda. Am Inst Arch J 13:395-401 N '25

TONNAGE
Le pesage des marchandises par le jaugeage des bateaux. Génie Civil 85:238-9 S 13 '24
Tonnage legislation and its application to the measurement of ships. E. W. Blocksidge. diags plan Marine Eng 30:345-50 Je '25; Abstracts with discussion. Engineer 139:430 Ap 17 '25; Engineering 119:470-1 Ap 17 '25

TONOPAH Belmont development company
Condensed statement of operations for the quarter ended Sept. 30, 1923. Eng & Min J 117:311 F 16 '24

TONTINE policies. See Insurance, Life—Tontine policies

TOOL holders
Extension tool-holders. M. J. Schneider. il Mach 31:955 Ag '25
Methods of machine tool design. A. L. DeLeeuw. diag Am Mach 62:425-7 Mr 12 '25

TOOL joints
Report of Committee on standardization of rotary tool joints. Am Pet Inst Bul 4:107-9 D 31 '23
Report of Committee on the standardization of cable drilling tool joints. Am Pet Inst Bul 4:111-13 D 31 '23

TOOL racks
Handy tool rack for the boiler shop. J. Smith. diags Ry Mech Eng 99:242 Ap '25

TOOL rooms
Avoiding waste in the tool room. R: Wendorby. Cassier's Ind Management 12:385-6 Jl '25
Bonus system applied to tool department. Iron Age 114:1219 N 6 '24
Effecting economies in the tool room. Cassier's Ind Management 11:394+ Ag '24
Keeping track of small tools. W. Abbotson. Cassier's Ind Management 11:364+ Jl '24
Organising a tool stores. Cassier's Ind Management 11:305-6 My 29 '24
Planning a small tool organisation. Cassier's Ind Management 11:514+; 12:169-70 D '24, F '25
Practical system of tool storage and control. F. A. Pope. il Factory 33:208-11, 346-7+ Ag-S '24
Principles of a corrective tool checking system. G. S. Schaller. Ind Management 69: 136-7 Mr '25
Some toolroom economies. G: C. Reilley. il Am Mach 62:601-4 Ap 16 '25
Tool division organization and management. E. C. Cooley. Mach 30:700 My '24
Tool handling in a large manufacturing plant. F. L. Connit. il Am Mach 62:333-6 F 26 '25
Tool store system. Automobile Eng 15:222 Jl '25
Toolroom operating on a production basis. A. A. Merry. il Am Mach 62:698-700 Ap 30 '25
Worthington methods for tool storage, use and repair. A. L. Christensen. Management & Adm 9:467-70, 537-40; 10:15-18, 95-7, 141-4, 201-4 My-O '25
Y & M V shops at Vicksburg. H. Campbell. il Am Mach 62:833 My 28 '25
See also Tool storage

TOOL steel
Beitrag zur kenntnis des einflusses von kobalt und vanadin auf die eigenschaften von schnellarbeitsstahl. W. Oertel and F. Pölzguter. Stahl & Eisen 44:1165-9, pl 2 S 25 '24
British research committee reports on steels for cutting tools. A. C. Blackall. Blast F & Steel Pl 13:289+ Jl '25
Casting high speed steel tools. J. M. Quinn. il Iron Tr R 74:226-30 Ja 17 '24; Same. Foundry 52:13-17 Ja 1 '24
Chemical composition of tool steels. J. P. Gill and M. A. Frost. Am Mach 63:500-2 S 24 '25
Cobalt steels for high-speed cutting tools. L. Guillet. Engineer 140:sup139 S 25 '25
Der einfluss der ledeburitischen gefügebestandteile bei der erzeugung und behandlung von dreh- und schnittstählen. F. Rapatz. Stahl & Eisen 44:1133-8, pl 1 S 18 '24
Experiments with lathe tools on fine cuts, and some physical properties of the tool steels and metal operated upon. D. Smith and A. Leigh. diags Engineering 119:364-6 Mr 20 '25; Abstract. Engineer 139:319-20 Mr 20 '25; Discussion. Engineering 119:357-8 Mr 20 '25; Engineer 139:320 Mr 20 '25
Forging and tempering high-speed and carbon tool steels. Ry R 75:282-3 Ag 23 '24
Gesteinsbohrstahl. R. Hohage. il Stahl & Eisen 45:992-5 Je 18 '25; Abstract (Rock drills). Engineer 140:sup132-4 S 25 '25
Ground flat stock. H. B. Schott. il Mach 31: 874-5 Jl '25
Heat treatment for plain carbon tool steel is standardized by A.S.S.T. Automotive Ind 53:180-1 Jl 30 '25; Same. Iron Age 116:411-12 Ag 13 '25
Heat-treatment not always at fault. C. M. Bohner. Mach 31:552 Mr '25
Heat-treatment of carbon and high-speed steel. Mach 31:906-7 Jl '25
Heat treatment of carbon and high-speed steel tools. J. K. Wood. Am Mach 61:791-3 N 20 '24
Heat treatment of tool steel. S. W. Brayshaw. diag Engineer 139:sup73-4 My 29 '25
High-speed steel for cast tools. J. M. Quinn. il Iron Age 112:1711-12+ D 27 '23
Improving modern twist drills. B. W. Benedict and W. P. Lukens. diags Iron Tr R 76:569-71 F 26 '25
Jolite high-production cutting tools. Mach 30: 559-6 Mr '24
Metallurgy is forcing mystery out of tool steel industry. J: D. Knox. il Iron Tr R 77:485-9 Ag 27 '25

TOOL steel—*Continued*
Nature of high-speed steel. M. A. Grossmann and E. C. Bain. diags Iron & Steel Inst J 110:249-72, pl 11-12 no 2 '24; Same. Engineering 118:347-8, 393-4 S 5-12 '24; Discussion. Iron & Steel Inst J 110:273-4 no 2 '24
New annealing practice for tool steels. A. T. Clarage. il Iron Age 113:1019-20 Ap 3 '24
New tool steel material. Iron Age 114:449 Ag 21 '24
On the nature of some low-tungsten tool steels. M. A. Grossmann and E. C. Bain. Am Mach 63:499-500 S 24 '25
Report on heat treatment of steel. H: Otto. il Ry Mech Eng 98:622-3 O '24
Salt baths prevent soft spots. W. J. Merten. Iron Tr R 76:1120-2 Ap 30 '25
Some causes of cracks and soft spots in hardened work. J. C. Spence. Am Mach 61:433-4 S 11 '24
Die technisch-wirtschaftliche bedeutung des edelstahls. O. Böhler. il diag Stahl & Eisen 44:1660-4 D 18 '24
Thermit welding of drill steels. R. G. Guyer. Eng & Contr (Ry) 63:607-8 Mr 18 '25
Tool room troubles. A. H. Kingsbury. Am Mach 59:831-2 D 6 '23
Ueber den einfluss der allgemein als schädlich angesehenen beimengungen auf die härtung des werkzeugstahls. E. Maurer and W. Haufe. Stahl & Eisen 44:1720-6, pl 15-16 D 18 '24
Welding high-speed steel. S. W. Miller. Am Mach 61:798 N 20 '24
Wissenschaftliche gestaltung der werkzeuge. W. Hippler. diags Zeit Ver Deutsch Ing 69:227-33 F 21 '25

See also Chromium steel; Gage steel; Molybdenum steel; Tungsten steel

Standards

Standards for tool steel. Iron Age 115:1628 Je 4 '25

Testing

Comparative tests of hardness of various steel tools at high temperatures; abstract. J. Cohade. Mech Eng 46:214 Ap '24
Foreign progress in cutting metals. C. A. Beckett. il diags Mech Eng 46:618-24 O '24
Hardness and cutting trials of a tool steel. D. Smith and I. Hey. Engineer 137:366-8 Ap 4 '24
Die härtebiegeprobe als chargenkontrolle in der edelstahlerzeugung mit besonderer berücksichtigung der unlegierten werkzeugstähle. G. Klein and W. Aichholzer. il Stahl & Eisen 44:1734-9 D 18 '24
Magnetic tests of A.S.T.M. drills. W. B. Kouwenhoven. diags Am Soc T M Pro 24 pt 2. 635-50 '24
Mechanische eigenschaften einiger schnellstähle im vergleich zu ihrer schnittleistung. W. Oertel and F. Pölzguter. diag Stahl & Eisen 44:1708-13 D 18 '24
Report on the present status and future problems of the art of cutting and forming metals. Mech Eng 46:20-30+ Ja '24
Schneidversuche mit schnellarbeitsstählen. R. Hohage and A. Grützner. il diags Stahl & Eisen 45:1126-30 Jl 9 '25
Das wesen der schnellarbeitsstähle. E. Maurer and G. Schilling. diags Stahl & Eisen 45:1152-69, pl 2 Jl 9 '25

TOOL storage
Lessons from a modern tool storage room. il Am Mach 60:59 Ja 10 '24
Practical system of tool storage and control. F. A. Pope. il Factory 33:208-11, 346-7+ Ag-S '24
Routing sheet and tool-crib index. R. Mawson. Mach 30:537 Mr '24
Storage of small tools. il Cassier's Ind Management 11:456 O '24
Tool-crib system. M. L. O'Flaherty. Mach 30:428-30 F '24
Tool handling in a large manufacturing plant. F. L. Connit. il Am Mach 62:333-6 F 26 '25
Worthington methods for tool storage, use and repair. A. L. Christensen. Management & Adm 9:467-70, 537-40; 10:15-18, 95-7, 141-4 My-S '25

TOOLS
Brown and Sharpe small tools for machinists. il Engineering 119:241 F 20 '25
Care and maintenance of small tools. H. Bentley. Cassier's Ind Management 11:424+ S '24
Formulas for determining value of special tools. D. W. Wright. Mach 32:224 N '25
How to order small tools. Cassier's Ind Management 12:349-50 Je '25
Preventing the mushroom head on shock tools. R. F. Thalner. il Nat Safety N 11:45 Ap '25; Same. Gas Age 55:704 My 16 '25
Specifying tool limits. W: F. Sandmann. Am Mach 63:235 Ag 6 '25
Tool salvage. L. A. Churgay. il Soc Auto Eng J 15:455-60 N '24; Same, without tables. Am Mach 61:893-5 D 4 '24; Discussion. Soc Auto Eng J 16:458-60 Ap '25
Tools and formers for the blacksmith shop. S. J. Uren. il Ry Mech Eng 99:651 O '25

See also Chisels; Files and rasps; Forming tools; Machine tools; Machinery; Parallels; Pneumatic tools; Railroads—Tools; Saws; Sharpening; Tool rooms; Tool steel; Wrenches

Advertising

Only kind of advertising that pays. F. R. Plumb. System 47:311-15+ Mr '25
Seeking safety through new markets; Vlcheck tool company. Ptr Ink 128:61-2 S 4 '24

TOOTH brushes
Economic determinism and the tooth-brush. W. F. G. Thacher. Ptr Ink 128:77-8+ Ag 7 '24

Advertising

How Rubberset cleared the way for Albright tooth brushes. A: Belden. Ptr Ink 126:25-6+ F 28 '24

TOP
Influence of the earth's rotation on a top. J: L. Synge. Philos Mag 6th ser 47:525-9 Mr '24

TOP cutters. See Coal cutters

TOPEKA, Kansas

Water supply

Operation results at the water purification plant at Topeka, Kansas. N. T. Veatch, jr. il Am Water Works Assn J 13:439-48 Ap '25

TÖPLER pump. See Vacuum pumps

TOPOGRAPHICAL maps
Commercial aspect of aerial photography. E. Wilson. il Can Eng 49:325-7 S 22 '25
Heroes of mapmaking; from Alaska's snows to dismal swamps, pluck and energy is completing the largest map in the world. G. E. Mitchell. il map Sci Am 133:221-3 O '25
Interpretation of topographic and geologic maps with special reference to determination of structure. C. L. Dake and J. S. Brown. 355p McGraw-Hill '25
Les nouvelles cartes de France aux échelles de 1/20 000 et de 1/50 000. A. Bidault des Chaumes. maps Génie Civil 84:125-8, 149-56, pl 3 F 9-16 '24
Surveying Reindeer Lake area. map Can Eng 49:299-300 S 8 '25
Topographical and exploration surveys. J. W. Pierce. maps Can Eng 48:623-5 Je 30 '25

See also Great Britain—Ordnance survey; Relief maps

TOPOGRAPHICAL surveying
Field survey activities of the Topographical survey of Canada. F. H. Peters. Can Eng 47:416 O 14 '24
Report of the geodetic and topographic survey of Richmond, Virginia. Review, by H. C. Mitchell. Eng N 92:331-2 F 21 '24
Topographical and exploration surveys. J. W. Pierce. maps Can Eng 48:623-5 Je 30 '25

See also Photographic surveying; Surveying, Aerial; Topographical maps

TORCHES
Oil-burning rivet forges and torches. il Ry Mech Eng 97:848-9 D '23

TORNADO insurance. See Insurance, Tornado

TORNADOES
Disastrous tornado damages railways in Middle West. il Ry Age 78:828-30 Mr 28 '25
Illinois mines suffer $300,000 damage in furious cyclone. il Coal Age 27:476-7 Mr 26 '25
Illinois tornado effects studied by engineers. il diag map Eng N 94:982-7 Je 11 '25
Most destructive of tornadoes. il Safety Eng 49:173-6 Ap '25
Ohio tornado destroys Lorain business district. il Eng N 93:54-6, 190 Jl 10, 31 '24
Report on effects of tornado of March 18, 1925. il diags map W Soc E J 30:373-94 S '25; Excerpt. Am Arch 128:373-4 O 20 '25; Discussion. W Soc E J 30:394-6 S '25
Tornado destruction in southern Illinois. Eng N 94:522-3 Mr 26 '25
Tornado relief work by the railroads. Ry R 76:866-7 My 9 '25
Weather of February and March and its relation to the tornadoes in southern Illinois. Heat & Ven 22:91-2 My '25
See also Electric lines—Damage from storms

TORONTO, Ontario
Study in problems of urban growth. T: Adams and H. L. Seymour. diags Can Eng 47:543-9 N 25 '24
See also Motor bus lines—Toronto

Bridges
Construction of Gerrard street bridge. J. S. Burgoyne and G. Alison. il Can Eng 46: 573-5 Je 3 '24
Humber river highway bridge, Toronto. A. B. Crealock. il diags plans Can Eng 47:431-7 O 21 '24
Proposed East York-Leaside bridge, Toronto. F. Barber. diags map Can Eng 49:473-6, 485 O 20 '25
Report on Toronto viaduct. Can Eng 47:323 S 9 '24
St Clair avenue bridge, vale of Avoca. G. Alison and N. G. Stewart. il diag map Can Eng 48:141-4 Ja 20 '25
Spadina avenue bridge, Toronto. diag Can Eng 49:442 O 6 '25

Harbor
Financing Toronto harbor works. E. L. Cousins. Can Eng 48:618 Je 30 '25
Plans for Toronto harbor development. R. H. Smith. Can Eng 45:475-7 N 6 '23
Review of Toronto harbor development. plan Can Eng 48:505-7 My 19 '25

Railroads
Union station, Toronto. il diag Arch Forum 40:101-4, pl 33-8 Mr '24

Rapid transit
$89,187 net income in Toronto. Elec Ry J 66:716-17 O 17 '25
Privy council adds $838,500 to arbitration price of Toronto railway. Elec Ry J 64:786 N 1 '24
Toronto's two and a half years of municipal ownership. Elec Ry J 63:577-8 Ap 12 '24
$2,000,000 sought for re-establishing Toronto radials. Elec Ry J 63:789 My 17 '24

Water supply
Toronto insufficiently metered. C. Bradshaw. Can Eng 48:619-21 Je 30 '25

TORONTO stock exchange
Record of prices on the Toronto stock exchange. Comm & Fin Chr 120:1266-7 Mr 14 '25

TORONTO. University
Hart House, University of Toronto. J. B. Bickersteth. il plans Arch Forum 40:11-16, pl 1-9 Ja '24

TOROTE
Torote wood as a source of tannin and dye. Textile Col 47:31 Ja '25

TORPEDO boat destroyers
British destroyer yards. Engineer 138:180-1 Ag 15 '24

TORPEDO boats
French torpedo-boat Enseigne Gabolde. il diags Engineering 117:483-6, 571-2, pl 33, 58 Ap 18, My 2 '24

TORPEDOES

Power plants
Steam at 1,200 deg. F. in a unique power plant for propelling torpedoes. diag Power 60:405-6 S 9 '24

TORPEDOPLANES
Blackburn-Napier Cubaroo aeroplane. il Automobile Eng 14:274 S '24
Modern torpedo plane has early ancestor. il Aviation 18:215 F 23 '25
Torpedo attack by airplane. il Sci Am 130: 389 Je '24

TORQUE
Standing torque of small turbines. J. Y. Dahlstrand. Power Pl Eng 29:184-5 F 1 '25
Torque calculations. H. A. Golding. diags Automobile Eng 15:180-1 Je '25

TORSION
Charts for bars and pipe in torsion. F. Szabo. Am Mach 60:279-82 F 21 '24
Charts for tension in bolts and torsion in shafts. R. Patterson. Am Mach 60:401 Mr 13 '24
Les diagrammes de torsion. J. Seigle. il diags Génie Civil 87:267-8 S 26 '25
Les essais de torsion des métaux; déformations élastiques et déformations permanentes. J. Seigle and F. Cretin. diags Génie Civil 84:545-9 Je 7 '24
Limite élastique et résistance à la rupture de barreaux soumis à des efforts combinés de torsion avec traction ou avec compression. J. Seigle. diags Génie Civil 87:345-9 O 24 '25
Messen von schwingungen und drehmomenten mittels des oszillographen. R. Elsässer. bibliog il diags Zeit Ver Deutsch Ing 68:485-91 My 17 '24
Quelques observations relatives aux effets des torsions permanentes sur les aciers. Génie Civil 85:18-19 Jl 5 '24
Torsion problem of curved beams; abstract. P. A. Heymans. Mech Eng 47:208 Mr '25
Torsional strength of steel I-sections. C. R. Young and C. A. Hughes. diags Can Eng 46: 593-7 Je 10 '24; Same. Eng & Contr (Bldgs) 62:469-79 Ag 27 '24; Abstract. Eng N 93:461 S 18 '24; Discussion. 93:882-3, 1047; 94:290 N 27, D 25 '24, F 12 '25

TORSION balance
See Eötvös balance

TORSION meter
Denny-Edgecombe direct vision torsionmeter. il diags Engineering 119:345-9 Mr 20 '25
Ford electrical torsionmeter. il diags Engineering 119:190-2 F 13 '25
Moullin torsion meter. il diags Engineering 117:764-5 Je 13 '24; Mech Eng 46:490 Ag '24
New machine for experiments in torsion; abstract. R. W. Chapman. diags Mech Eng 47:511 Je '25

TOTTEN, George Muirson, 1809-1884
Appreciation. G. T. McMaster. il Ry Age 79: 863-4 N 7 '25

TOURIST camps. See Camps, Tourist

TOURIST trade
Selling tips from the broad highway. B. Avery. Ptr Ink 132:143-4+ Ag 20 '25
What tourist business means to Wisconsin. N. M. Isabella. Munic & Co Eng 69:202-3 O '25

TOURMALINE
Adiabatic and isothermal piezo-electric constants of tourmaline. D: A. Keys. Philos Mag 6th ser 46:999-1001 N '23

TOWBOATS
Another victory for oil equipment, the tugboat Cornell. L: S. Treadwell. il diag Sci Am 133:314-15 N '25
Board reports on capsizing of steamer M. E. Norman. diags map Eng N 95:387-9 S 3 '25; Excerpt. Power 62:344 S 1 '25
Diesel electric towboat designed for river service. il plans Marine Eng 29:159-60 Mr '24
Diesel-electric tug Van Dyke 3. il plans Marine Eng 29:578-81 O '24
Diesel tug cuts $22,000 off annual expenses. A. H. Jansson. il Marine R 54:437-9 N '24
Die einheitsschlepper des staatlichen schleppmonopols. Ebelt. diags Zeit Ver Deutsch Ing 69:361-6, pl 2 Mr 21 '25
Der erste deutsche turbinen-radschleppdampfer Dordrecht. il diags plans Zeit Ver Deutsch Ing 69:341-5 Mr 14 '25
First Diesel electric tug P.R.R. no. 16 passes successful trials and is now in general service in New York harbor. P. A. Sensenig. il Sibley J 38:201-3+ N '24
Geared-turbine paddle tug for the Rhine. diags Engineering 119:361 Mr 20 '25; Discussion. 119:798 Je 26 '25
Measuring the towing power of tugs. G. Kempf. Marine Eng 29:602-4 O '24
Motor tug Hustler. il diags plan Marine Eng 29:27-9 Ja '24
New Diesel engine tow boat Mahoe. il plans Marine Eng 30:385-8 Jl '25; Marine R 55: 253-4 Jl '25
New Diesel-engined tug has successful trial; Arthur N. Herron. il diags Marine Eng 29: 174-6 Mr '24
Oil-engined versus steam-driven tugs. il diags Engineering 118:517-18, 520 O 10 '24
Operation of tow-boats. W. J. Belsey. Electrician 95:120-1 Jl 31 '25
Pennsylvania railroad's Diesel electric tug. il Ry R 75:286-7 Ag 23 '24; Marine Eng 29: 522-3 S '24; Marine R 54:354-5 S '24
Plans and specifications pending for construction of two Diesel-electric driven, steel, stern-wheel towboats. diag plan Marine Eng 29:688 N '24
Powerful salvage tug built on the Clyde for Canada. il plan Marine Eng 30:271-2 My '25
Radio communication for directing marine equipment. Ry R 76:126 Ja 10 '25
Reconditioned oil-burning tug Maoi makes record run to San Francisco. il Marine Eng 30:447 Ag '25
Reversible Diesel engine drives stern wheel towboat. il diags Marine Eng 29:241-2 Ap '24; Sci Am 131:31 Jl '24
River disaster marks end of Mid-South engineering convention; towboat M. E. Norman capsizes on Mississippi. W. W. De Berard. Eng N 94:827-9+, 855-7 My 14-21 '25
Der see- und bergungsschlepper Seefalke. F. Hillebrand and E. Müller. il diags plans Zeit Ver Deutsch Ing 69:433-8 Ap 4 '25
Steel screw tug and water-boat Lord Combermere. il diags Engineering 118:370-2 S 12 '24
Tug boat dispatching. P. P. Hand. il Wireless Age 12:38 Mr '25

Testing

Diesel electric tug boat; comparative tests of Diesel electric, direct Diesel and steam driven tugs. F. L. DuBosque. diags plans Marine Eng 29:703-9; Discussion. 739-40 D '24
Speed and power of shallow draft vessels. diags Marine Eng 30:590-3 O '25

TOWELS
Bleaching and dyeing of towelings. I. Ginsberg. Textile Col 47:701-2 N '25

Advertising

Big manufacturer teaching merchandising through business press; Cannon towels. Ptr Ink 125:73-4+ N 15 '23

TOWERS
From Babel to modern skyscraper. A. C. Bossom. il Bankers M 110:341-5 F '25
Perspective of Chicago tower; project for lake front development of the city of Chicago. Am Arch 124:497 D 5 '23
See also Absorption towers; Electric lines—Poles and towers; Radio towers; Water towers; *also* Chicago Tribune building

TOWERS, Concrete
Concrete tower 50 years old, 220 feet high. H. C. Badder. il Concrete 25:6-8 Jl '24
Neue bauart von kühltürmen. Barck. il diags Zeit Ver Deutsch Ing 69:18-20 Ja 3 '25
Reinforced concrete lift tower. Can Eng 49: 154 Jl 21 '25; Same. Eng & Contr (Bldgs) 64:492 Ag 26 '25
See also Cooling towers, Concrete

TOWERS, Hoisting. See Hoisting towers

TOWERS, Portable
Telescopic towers for aerial photographing. il Eng N 94:289 F 12 '25
Tower wagons for street lighting service. il diag plan Elec W 84:1163 N 29 '24

TOWERS, Steel
Army engineers build disappearing searchlight towers. E. D. Cummings. il Eng N 92:227-9 F 7 '24
Improved steel hoist tower. il Eng & Contr (Equip R) 61:914-15 Ap 30 '24
See also Water towers, Steel

TOWERS, Transmission. See Electric lines—Poles and towers

TOWING
Elastic towing. S. Miller. charts diag Marine Eng 29:657-62 N '24; Abstract. Sci Am 132: 195+ Mr '25
Further notes on towing and the strength of hawsers. S. Miller. il Marine Eng 30:221-4 Ap '25
See also Towboats

TOWN halls. See Municipal buildings

TOWN planning. See City planning

TOWN planning Institute of Canada
Annual convention, Ottawa, May 14. Can Eng 48:528 My 26 '25

TOWNE, Henry Robinson, 1844-1924
Father of the science of industrial management. por Ind Management 68:305-6 N '24
Sketch. Taylor Soc Bul 9:194 O '24; Am Ind 25:25 N '24
Sketch. H: H. Suplee. por Mech Eng 46: 933-4 D '24

TOXICITY
Glycol esters of certain aromatic acids. L. H. Cretcher and W. H. Pittenger. Am Chem Soc J 47:2560-3 O '25
See also Poisons; Poisons, Industrial

TOYS
American made toys. E: N. Vose. il Dun's Int R 43:39-42 Mr '24
Balance of trade in toys. C. Bird. il Am Exporter 94:13-16+ Je '24
Crisis in German toy industry. F. Van den Arend. Am Ind 26:41-2 S '25
Increasing toy sales by skilful window and counter displays. B. T. Royce. il Dun's Int R 5:45-9 My '25
Large uses of steel in small ways; toys. il Iron Tr R 74:477 F 14 '24
Manufacturing policies that have offset Europe's cheap labor; Toy tinkers, incorporated. il Factory 33:779-81+ D '24
Modern merchandising methods applied to the selling of toys. il Dun's Int R 44:46-8 F '25
Postwar conditions in the German toy industry. A. J. Grey. U S Bur For & Dom Com Trade Information Bul 267:1-20 '24
Progress in the American toy industry. Comm M 7:13-15 N '25
When the side-line becomes the big profit maker; Nelke toys. A. Belden. il Ptr Ink 125:73-4 D 6 '23
Wonders of toyland. R. Brennan. il Dun's Int R 43:42-7 Jl '24

Advertising

See also Dolls—Advertising

TOYS—*Continued*

Exhibitions

1924 toy fair. E: N. Vose. il World's Markets 15:6-8+ Mr '24

TRACHOMA

New York reduces trachoma in city schools. Nation's Health 7:636 S '25

TRACHYTE

Compressibility of several artificial and natural glasses. P. W. Bridgman. Am J Sci 5th ser 10:359-67 O '25

TRACINGS. See Drafting room practice

TRACK. See Railroads—Track; Street railroads—Track

TRACK brakes. See Brakes, Track

TRACK circuits

Selbsttätige zugsicherungsanlagen mit wechselstrom unter besonderer berücksichtigung der anlagen der Hamburger hochbahn. C. Wolff. il diags Zeit Ver Deutsch Ing 68:970-5 S 13 '24

TRACK scales

Track scale shop and test car. il Eng & Contr (Ry) 62:1308 D 17 '24

TRACKLESS trolley

Les autobus électriques à trolley d'Ipswich (Angleterre). il Génie Civil 84:283-4 Mr 22 '24

Details of Detroit trackless trolley plan. Elec Ry J 63:669 Ap 26 '24

European motor bus design. il Elec Ry J 64: 451-2 S 20 '24

First trackless trolley in France. il Elec Ry J 66:396 S 12 '25

Garrett electric trolley omnibus. il diags Engineer 140:196-8 Ag 21 '25

How various tramways in British Isles are treating the bus in England and Scotland. il maps Elec Ry J 64:419-24 S 20 '24

La ligne d'autobus électriques à trolley de Modane à Lanslebourg (Savoie). A. Chardin. il diags Génie Civil 86:358-60 Ap 11 '25

Les nouvelles lignes d'autobus électriques à trolley. P. Calfas. il Génie Civil 86:177-81 F 21 '25

Report of the T. & T. A. committee on trackless vehicle operation. Elec Ry J 64:657-8 O 11 '24

Rochester trackless trolley construction. il Elec Ry J 64:11-13 Jl 5 '24

Taxpayers lose heavily on New York trolley buses. Aera 12:779-83 D '23

Trackless trolley details. Sci Am 129:387 D '23

Trackless trolley expansion in the Far East. il Elec Ry J 65:694 My 2 '25

Trackless trolley experience on Staten Island. Elec Ry J 63:540 Ap 5 '24

Trackless trolley versus tramway at Darlington. Elec Ry J 63:949 Je 14 '24

Trackless trolleys give improved service to Cohoes, N.Y. il diags map plan Elec Ry J 64:985-8 D 13 '24

Tramways and light railways in 1922-23. Elec R (Lond) 94:431 Mr 14 '24

Trolley bus finds a place in English transportation system. A. Baker. Eng & Contr (Ry) 62:124-6 Jl 16 '24

Wigam electrically-driven omnibus. il Elec R (Lond) 96:822 My 22 '25

Costs

Comparison of costs of trackless trolley and gasoline bus at Toledo. W. E. Cann. Munic & Co Eng 66:259-60 Je '24

Trackless trolley costs. Bus Transportation 2: 598 D '23

Testing

Tests show two-motor trackless trolley better. Elec Ry J 65:215-16 F 7 '25

Trolley 'buses for Shanghai; a test at Ipswich under running conditions. il Elec R (Lond) 96:955-6 Je 12 '25

TRACKWAYS, Concrete. See Pavements, Concrete—Trackways

TRACTOR industry and trade

Business conditions, not engineering, retard tractor growth. Automotive Ind 50:984-5 My 1 '24

Tractor age. E. L. D. Seymour. il Dun's Int R 43:43-6 My '24

Tractor costs must be decreased. Soc Auto Eng J 14:486 My '24

United States

Agricultural tractor exports 1922-1923; tabulation. Automotive Ind 50:474 F 21 '24

Agricultural tractor exports, 1923-1924. Automotive Ind 52:552 Mr 19 '25

Wide market for tractors in South; sales show constant gain. H. F. Podhaski. il Automotive Ind 53:94-7 Jl 16 '25

TRACTORS

Auto-traction tractor; a four-wheeled tractor with detachable trailer. il diags Automobile Eng 15:2-8 Ja '25

Bright outlook for farm tractors seen at Chicago meeting. Automotive Ind 52:826-8 My 7 '25

Clearing Florida jungles with tractors. il Eng & Contr (G C) 63:1130-1 My 20 '25

Cletrac model K tractor. il Eng & Contr (R & S) 64:1037 N 4 '25

Diesel engine adapted to trucks and tractors. B. R. Dierfeld. il diags Automotive Ind 53: 730-3 O 29 '25

Engineering progress in general-purpose farm-tractor development. O. B. Zimmerman. il Soc Auto Eng J 16:47-52 Ja '25

Four different tractor types developed for use in roadless areas. diags Automotive Ind 50: 820-6, 868-72 Ap 10-17 '24

General-purpose farm tractor. O. B. Zimmerman. il Soc Auto Eng J 14:485-6 My '24

General-purpose tractor. F. A. Wirt. Soc Auto Eng J 14:36 Ja '24

High speed tractor-trailer transportation. R. N. Stillwell. il Am Exporter 94:73+ Je '24

Holt announces new five-ton caterpillar tractor. il Munic & Co Eng 67:316-17 D '24; Eng & Contr (R & S) 63:82 Ja 7 '25

How tractors are helping to solve the snow removal problem. il Good Roads 68:8 Ja '25

Industrial and commercial applications of the tractor. G. D. Babcock. il Soc Auto Eng J 15:199-205 S '24; Discussion. 15:536-8 D '24

Many uses for general purpose tractor. il Am Exporter 95:65+ Ag '24

Metamorphosis of the farm tractor. il Sci Am 131:251 O '24

Motor-cable ploughing tractor. il diags Engineering 120:16, 25-7 Jl 3 '25

Research on tractor engines. H. L. Horning. Automotive Ind 52:828 My 7 '25

Russian tractor Moto-trud. diag Mech Eng 47:670 Ag '25; Automotive Ind 53:103 Jl 16 '25

Seven important advantages in the use of tractors in farming. W. W. Ramsey. il Dun's Int R 44:41-4 N '24

Strengthening of rear axle drive among Fordson improvements. P. M. Heldt. il diags Automotive Ind 52:257-60 F 12 '25

Traction across rough and roadless country. L. A. Legros. il diags Engineering 117:282-6, 316-19, 347-50 F 29-Mr 14 '24; Same (La traction hors route). Soc Ing Civils Bul 77: 7-32, pl 62 Ja '24

Tractor aids in mountain repair work during winter snows. il J Elec 52:207 Mr 15 '24

Tractor for patrolling transmission line in winter. il Elec W 83:887 My 3 '24

Tractor outfit for plowing marsh lands. F. W. Duffee. il Dun's Int R 45:57-8 Ag '25

Value of the tractor for clearing jungle lands. il Dun's Int R 46:55-6 O '25

Walking tractor. il Sci Am 130:37 Ja '24

See also Electric tractors; Motor vehicles—Caterpillar type; Tractor industry and trade; Tractors, Gas; Tractors, Steam

Cost of operation

Tractor handles coal at a cost of $0.026 per ton. W. T. Conlon. il Elec W 83:580 Mr 22 '24

Design

Engineering progress in general-purpose farm-tractor development. O. B. Zimmerman. il Soc Auto Eng J 16:47-52 Ja '25

TRACTORS—Design—*Continued*
Oilpull tractors redesigned; weight reduced and working parts enclosed. il Automotive Ind 52:466-8 Mr 5 '25; Eng & Contr (Equip R) 63:921 Ap 29 '25
Tractor design has developed steadily but along conservative lines. P. M. Heldt. il diags Automotive Ind 52:314-17 F 19 '25

Exhibitions
Le XVIII[e] salon de l'automobile; tracteurs et remorques. G. Delanghe. diags Génie Civil 83:480-5 N 17 '23
Le XIX[e] salon de l'automobile; section des véhicules industriels (22-31 octobre 1924). G. Delanghe. il diags Génie Civil 85:491-7 N 29 '24
Permanent exhibit of the Ford power equipment exposition shows uses of tractor power in engineering and construction. il Eng N 92:302-3 F 14 '24

Fuel feeding
Holley vaporizer permits use of any grade of fuel. W. L. Carver. il Automotive Ind 52: 698-9 Ap 16 '25

Gearing
American stock gearset specifications; tabulation. Automotive Ind 50:441 F 21 '24

Manufacture
Building McCormick-Deering tractors. il diags Am Mach 63:183-6, 223-8 Jl 30-Ag 6 '25
Building tractors under scientific management. G: D. Babcock. il Management & Adm 7:647-52; 8:19-26, 141-6, 265-70, 377-82, 497-502 Je-N '24
Large fixtures and tools for building Twin City tractors. H. Campbell. il Am Mach 60: 907-10 Je 19 '24
Mechanical handling at River Rouge; the saw mill and the tractor assembly. M: W. Potts. il diags plan Ind Management 68:95-103 Ag '24
Production methods in a tractor plant. il Mach 31:951-4; 32:32-5 Ag-S '25

Power take-off attachments
Power take-off for tractors. F. N. G. Kranich. il Soc Auto Eng J 17:249-53 S '25

Rating
Tractor rating code. Automotive Ind 52:1065-6 Je 18 '25

Specifications
American agricultural tractor specifications; tabulation. Automotive Ind 50:454-7; 52:404-7 F 21 '24, F 26 '25
American garden tractor specifications; tabulation. Automotive Ind 50:456-7; 52:406-7 F 21 '24, F 26 '25
American stock engine specifications; tabulation. Automotive Ind 50:442-5 F 21 '24
British agricultural tractor specifications; tabulation. Automotive Ind 50:453 F 21 '24

Standards
Proposed S.A.E. recommended practice for tractor leather driving belts. diag Soc Auto Eng J 14:38-9 Ja '24
S. A. E. agricultural power equipment division report; tractor leather driving belts. Soc Auto Eng J 14:631-3 Je '24; Discussion. 15:25-6 Jl '24

Testing
Bear and Deere tractors pass Nebraska agricultural college tests. Automotive Ind 50: 1089 My 15 '24
Influence of speed on engine performance. E. A. Allcut. il Automobile Eng 15:254-7 Ag '25
Tractor testing forms recommended. Soc Auto Eng J 16:585-7 Je '25
Two more farm tractors pass Nebraska tests. Automotive Ind 53:215 Ag 6 '25
Two Oil-pull tractors and a Monarch pass Nebraska tests. Automotive Ind 53:102-3 Jl 16 '25

TRACTORS, Electric. See Electric tractors

TRACTORS, Gas
Les expositions agricoles d'hiver (Paris, 1924); essais des tracteurs agricoles à gazogènes du Concours d'Essonnes (1923). G. Coupan. il diags Génie Civil 84:337-45 Ap 12 '24
Producer-gas-burning farm tractors in France. Sci Am 131:185 S '24

TRACTORS, Industrial
Industrial transportation. R. B. Williams. il Blast F & Steel Pl 12:456-9 O '24
Meets needs of fast liner service. H. R. Simonds. il Marine R 55:13-16 Ja '25
Needed to meet production schedules. J. H. Smith. Factory 35:224 Ag '25
Transportation of material in the Roanoke shops. J. M. Thomas. il Ry R 74:1126-30 Je 14 '24
See also Electric tractors, Industrial; Motor trucks, Industrial

Cost of operation
21 material-handling installations which have saved money; trucks, tractors and cupola chargers. G: E. Hagemann. Management & Adm 9:357-9 Ap '25

Lubrication
Essentials of industrial truck and tractor lubrication. A. F. Brewer. il diag Ind Management 70:306-12 N '25

TRACTORS, Military
British four-wheel drive military tractor has six forward and two reverse speeds. M. W. Bourdon. il diags Automotive Ind 51:1002-4 D 11 '24

TRACTORS, Steam
Forgotten chapter in the history of road transport; steam trains in India. R. E. Crompton. il Automobile Eng 14:182-5 Je '24
Indiana tractor boiler explodes. il Power 62: 404 S 15 '25
Sentinel track-laying steam tractor. il diags Engineer 138:592 N 21 '24; Engineering 118: 717 N 21 '24
Two-cylinder compound steam traction engine. il Engineering 118:810-11 D 12 '24

TRADE acceptances. See Acceptances

TRADE agreements
Agreement in New York clothing market grants workers' unemployment insurance and other demands—text of agreement. Comm & Fin Chr 119:142 Jl 12 '24
Collective agreements in Germany, 1923. Monthly Labor R 20:1286-8 Je '25
Development and provisions of collective agreements in Sweden. Monthly Labor R 19: 1309-14 D '24
Experiment of protocolism in the women's garment trades. Monthly Labor R 20:982-6 My '25
Judicial remedies in recent French legislation for the enforcement of agreements of trade associations. P. Pic. Int Labour R 12:23-38 Jl '25
Labor agreements, awards and decisions. Published in monthly numbers of Monthly labor review
New labor agreement signed in the women's wear trades of New York. Comm & Fin Chr 119:260-1 Jl 19 '24
Retail clerks—Butte, Mont. Monthly Labor R 18:814-17 Ap '24
Trade agreement in the silk-ribbon industry of New York city. M. Gadsby. U S Bur Labor Statistics Bul 341:1-95 '23
Unemployment agreement in the Chicago men's clothing industry; unemployment fund. W. E. Hotchkiss. Ann Am Acad 111: 372-7 Ja '24
See also Arbitration, Industrial

TRADE associations
Arguments for collection of statistics by trade. Textile World 65:1173-4 F 9 '24
Attitude of U.S. Chamber of commerce toward trade association. Sanitary & Heat Eng 103:105+ F 20 '25

TRADE associations—*Continued*
Attorney-General Daugherty's ruling on trade statistics. Comm & Fin Chr 118:263-5 Ja 19 '24; Same. Oil Paint & Drug Rep 105:19 Ja 14 '24; Excerpt. Chem & Met Eng 30: 70 Ja 14 '24; Excerpts. Power 59:115 Ja 15 '24
Attorney-General Stone comments on the report of the Federal trade commission. Elec W 85:375 F 14 '25
Business must be its own doctor. Automotive Ind 50:1060-2 My 15 '24
Coal men plan to establisb data bureau. Ptr Ink 131:147+ Je 25 '25
Commends many trade associations; abstracts of annual report of Secretary of commerce. H. Hoover. Iron Age 114:1421-2 N 27 '24; Nat Pet N 16:56+ D 10 '24
Conduct of trade associations. C. Coolidge. Comm & Fin Chr 120:540 Ja 31 '25
Convention dates of national and trade associations. 44p U.S. Chamber of commerce, Washington, D.C.
Co-operation solves problems of distribution. C: F. Abbott. Iron Tr R 77:821-3 O 1 '25
Court order restricts gathering of trade statistics. Elec W 82:1195-6 D 8 '23
Decree of Judge Knox. Iron Age 112:1646-7 D 20 '23
Defining trade association functions. Oil Paint & Drug Rep 107:5-6 Mr 26 '25
Development of trade association credit information service. Comm & Fin Chr 120: 2747 My 30 '25
Disinfectant makers adopt code of ethics. Oil Paint & Drug Rep 107:22 Je 22 '25
Ethics in the insecticide and disinfectant industry. Chem Age 33:10 Ja '25
German trade associations; the coal kartells. A. H. Stockder. 254p Holt '24
Glimpse of trade association activity. Chem & Met Eng 30:911 Je 9 '24
How associations can protect trade-mark rights. Ptr Ink 128:134+ Jl 10 '24
How can a trade association bring about standardization in an industry? H. P. Baker. Paper Tr J 77:27-8+ N 22 '23
How far can the trade association go in co-operative service to industry? H. Oliphant. Chem & Met Eng 30:190-1 F 4 '24
How the Department of justice considers association trade-marking and advertising. Ptr Ink 126:101-2+ Ja 10 '24
How these industries conduct their research. Brick & Clay Rec 65:307-12 S 2 '24
How trade associations may help elevate the standards of retail merchandising. H. L. Ashworth. Ptr Ink 125:105-6+ D 6 '23
Interest of trade associations in patents and trade-marks. K: Fenning. Harvard Business R 3:81-4 O '24; Same. Paper Tr J 79:114+ O 30 '24
Justice for the trade association. G: T. Buckingham. Nation's Business 12:15 Je 5 '24
Legal aspects of trade association activities. F. D. Jones. Paper Tr J 77:53-6 D 27 '23
Legitimate functions of a trade association. N. B. Williams. Eng & Min J 120:713 O 31 '25
Let competitors battle in the sunlight of known facts. G: T. Buckingham. Ptr Ink 127:157-8+ My 29 '24
Let us have business peace. E: A. Bradford. Annalist 23:111-12+ Ja 14 '24
List of trade associations connected with United States mining industries. Eng & Min J 119:150 Ja 17 '25
Manufacturers' salesmen and the association campaign. M. Hastings, jr. Ptr Ink 131:73-4+ Je 11 '25
Mining industries especially are in need of trade associations. G. H. Dorr. Coal Age 26:14-16 Jl 3 '24
Objectionable trade association practices are defined; a review of the government's case against the Tile manufacturers. J: F: Richter. Ptr Ink 125:25-8 D 6 '23
Organization. J: A. Brosky. Refrig W 60:13-14 Ap '25
Patents and the trade association. Chem Age 31:546 D '23
Principles of business conduct. H. Hoover. Comm & Fin Chr 118:2389-91 My 17 '24; Same. Econ W n s 27:652-6 My 10 '24; Same. Nation's Business 12:7-9 Je 5 '24; Same. Paper Tr J 79:57-60 Ag 7 '24; Same cond. Iron Tr R 74:1316-17 My 15 '24; Same cond. Ptr Ink 127:186+ My 15 '24; Excerpts. Am Mach 60:741-2 My 15 '24
Problems of the trade association. R: W. Edmonds. Manuf Rec 85:77-8 Je 12 '24
Research among trade associations. Special Lib 16:117-19 Ap '25
Rigid rules for trade associations. Iron Age 112:1557 D 6 '23; Same. Sanitary & Heat Eng 101:11 Ja 11 '24
Scientific research as an association activity. H. E. Howe. Am Cer Soc J (Bul) 7:209-21 Je '24
To decide the statistical rights of trade associations. Ptr Ink 129:10+ O 2 '24
Trade association activities; new decisions and a ruling by the Attorney General. Index p 8-9 F '24
Trade association and its place in the business fabric. R: A. May. Paper Tr J 78:59-62+ Ja 31 '24
Trade association pilgrims get no help or advice on statistical service. Oil Paint & Drug Rep 106:19+ S 29 '24
Trade association statistics. Mach 31:997 Ag '25
Trade associations are not persecuted as charged. E. W. McCullough. Power 61:714 My 5 '25
Trade associations legal. E. W. McCullough. Blast F & Steel Pl 13:313 Ag '25
Trade associations; renewed effort to clarify their status. Index p 7 D '24
Trade associations still multiplying. Comm & Fin Chr 119:2473 N 29 '24
Trade associations, their economic significance and legal status. 388p National industrial conference board, New York '25; Excerpts. Elec W 85:947-8 My 2 '25; Coal Age 27:691 My 7 '25; Eng N 94:787 My 7 '25
Trade bodies' rights defined. G. T. Buckingham. Iron Tr R 74:1288-9 My 15 '24
Trade statistics and public policy. F. D. Jones. Harvard Business R 3:394-403 Jl '25; Same. Paper Tr J 81:57-60+ O 8 '25
Two cabinet members fail to agree; Secretary Hoover and Attorney-General Daugherty discuss rights of trade associations. L. W. Moffett. Iron Age 113:221+ Ja 17 '24
Valuable insurance activities of trade associations in the United States. Econ W n s 27: 26-7 Ja 5 '24
Value of organized effort. H. P. Baker. Paper Tr J 80:36+ Ja 1 '25
Ways to kill an association. W: H. Sayward. Boston Soc C E J 10:446-8 D '23
What a trade association can do. System 45: 802+ Je '24
What about the trade associations? E: E. Hunt. Am Mach 60:41-3 Ja 10 '24
What is the job of the trade association? A. Reeves. Ann Am Acad 116:264-6 N '24
What of the future of the trade association? Chem & Met Eng 30:178-9 F 4 '24
What sales executives should know about dangers of misinterpreting trade association statistics. G. H. Montague. Management & Adm 10:93-4 Ag '25
What the administration thinks about association work. Ptr Ink 130:89-90+ Ja 22 '25
What Tile decree means to other industries. Ptr Ink 125:118+ D 27 '23
Why an association? P. F. Brandstedt. Sheet Metal Worker 15:607-8 Ag 29 '24

See also Advertising, Association; Conventions; Electric associations; Gas associations; Plumbers' associations; Price fixing; Textile associations; Trade unions; *also* names of associations, e.g. American association of paper specialty manufacturers; Cement manufacturers' protective association; Copper and brass research association; Institute of American meat packers; Pacific states paper trade asso-

TRADE associations—*Continued*
ciation; Sanitary potters' association; Society for electrical development; Southern pine association; United typothetae of America; Wisconsin independent oil jobbers

Accounting

First steps in cost accounting in trade associations. T: J. Burke. Paper Tr J 78:309-Ap 10 '24
Uniform cost accounting in trade associations. 19p Chamber of commerce of the U.S., Washington '24

Directories

See Electric associations; Railroad associations

Guarantees

Association guarantee how to operate it. H. H. Highlands. Sanitary & Heat Eng 102: 145-7 S 5 '24
Certified heating. J. C. Fitts. Sanitary & Heat Eng 102:399-401+ D 12 '24

Secretaries

See Oil jobbers' associations—Secretaries

Supreme court decisions

Another rule of reason. Nat City Bank p 134-6 Ag '25
Comments on trade association decisions. Elec W 85:1288-9 Je 13 '25
Court encourages industries. Iron Tr R 76: 1612 Je 18 '25
Effect of trade association decision on the cement industry. E. Dakin. Am Ind 25:18-19 Jl '25
Legal status of trade associations cleared up by Supreme court ruling in Maple flooring and cement cases. P. Wooton. Coal Age 27: 879 Je 11 '25
National association of manufacturers analyzes decision on trade statistics. Am Mach 63:40a Jl 2 '25
Open price associations may go on. Iron Age 115:1725-6 Je 11 '25
Sherman witch on trial. E. Dakin. Comm & Fin 14:1139-40 Je 10 '25
Supreme court approves trade statistics distribution; text. Eng N 94:943-4, 981 Je 4-11 '25
Supreme court decides cement case; text. Eng & Contr (Bldgs) 63:1399-1403 Je 24 '25
Supreme court says association may gather and publish trade statistics. Nat Pet N 17: 44 Je 10 '25
Supreme court upholds purpose and intent of trade association statistics. Am Mach 62: 944a Je 11 '25
Supreme court upholds trade data exchange. Sanitary & Heat Eng 103:395+ Je 12 '25
Trade-association activities clarified. Mech Eng 47:599-600 Jl '25
Trade association activities vindicated. Elec W 85:1234-5 Je 6 '25
Trade association decision and its significance. J. A. Emery. Am Ind 25:17 Jl '25
Trade association decision interests textile men. Textile World 67:3695-6 Je 6 '25
Trade association statistical activities clarified by Supreme court decision. Power 61: 929-30 Je 9 '25
Trade association statistical work not unlawful, says Supreme court. Oil Paint & Drug Rep 107:21+ Je 8 '25
Trade association statistics lawful. Nation's Business 13:52 Jl '25
Trade associations; new rule of reason for cooperative activities established by the Supreme Court. Index p 5-6 Je '25
Trade associations win in Supreme court. Ptr Ink 131:93 Je 4 '25
Trade statistics held legal. Bus Transportation 4:365 Jl '25
Trade statistics not illegal. Elec Ry J 65:913 Je 6 '25
Two trade associations get clean bill of health from Supreme court. Eng & Min J 119:976 Je 13 '25
United States Supreme court on trade associations; Maple flooring association decision. Comm & Fin Chr 120:3020-1 Je 13 '25
U.S. Supreme court upholds cement trade association activities. I. D. Foos. Concrete 27: 6-8 Jl '25

TRADE balance. See Balance of trade

TRADE catalogs. See Catalogs

TRADE characters. See Advertising characters

TRADE cycles. See Business cycles

TRADE directories

See Directories; Mailing lists; Manufacturers—Directories

TRADE discount. See Discount, Trade

TRADE disputes

Wastes in trade relations. A. L. Filene. Am Management R 14:339-40 N '25

TRADE journals

Advertising agent dissects business papers. M. L. Wilson. Ptr Ink 129:61-2+ D 11 '24
Are you too busy to read? W: J. Woolley. Dom Eng 110:79+ Ja 10 '25
Business paper of the future. J. H. McGraw. Elec Ry J 65:228-9 F 7 '25
How and when to read your business paper. Ptr Ink 131:84+ Je 25 '25
How best to pass information contained in gas journals on to the employees. A. D. Whittaker. Am Gas J 120:409-10+ My 3 '24
Ideals of industrial journalism. J. H. McGraw. Elec W 84:559-60 S 20 '24; Excerpts. Chem & Met Eng 31:542-3 O 6 '24
Influence of trade papers. J. B. Arnold. Inland Ptr 72:923-6 Mr '24
Time has come for forward step in business-paper publishing; cooperation with advertising agencies. A. E. Haase. Ptr Ink 129:17-20 N 6 '24
Training an idea scout. Ptr Ink 132:41-2 Jl 23 '25

See also Advertising mediums—Trade journals; House organs; Insurance—Periodicals

Directories

Crain's market data book. G. D. Crain. 5th ed. 500p G. D. Crain, Chicago '25

TRADE marks

Advertising again proves a prime factor in trade-mark suit; Orange crush trade-mark. Ptr Ink 127:41-2 My 1 '24
And now they've trade-marked lenses. C. B. Larrabee. Ptr Ink 131:33-4+ Je 18 '25
Are tire treads distinctive? trade-mark registration of Goodyear diamond tread refused. Ptr Ink 127:115-16 Ap 3 '24
Argentina may modify trade-mark law. Ptr Ink 125:141-2 D 13 '23
Assets or liabilities? patents and trade marks as credit factors. M. Wright. Credit M 26: 9+ S '24
Beech-nut—a trade-mark suit that touches manufacturers' pocketbooks. il Ptr Ink 127: 118-20+ My 15 '24
Book of American trade-marks and devices. J. Sinel, comp. 64 l Knopf '24
Breaking away from private-brand business without offending distributors. Ptr Ink 127: 19-20 Ap 17 '24
Can mechanical features of rubber goods qualify as trade-marks? test case on tire treads brought by Goodyear. W. Fawcett. Rubber Age 15:52-3 Ap 25 '24
Christian and fanciful surnames as trademarks. Ptr Ink 132:25-6+ Ag 27 '25
Circuit court reverses Rouss decree. Ptr Ink 127:95 My 22 '24
Consumer cares more about brands than geography; Federal trade commission dismisses "Canada dry" geographical name case. Ptr Ink 128:113-14 Jl 17 '24
Convention for the protection of commercial, industrial, and agricultural trade marks and commercial names. 68p Inter American high commission, Washington '23
Copyrights, trademarks, prints and labels, and unfair competition in trade. W. G. Carr. Elec J 21:529-31 N '24

TRADE marks—*Continued*
Could producers of related goods use your trade-mark? Ptr Ink 129:131-2+ N 13 '24
Don't follow style trends in trade-marks. Ptr Ink 131:116-17+ Ap 30 '25
Don't forget to renew your trade-mark registrations. Ptr Ink 131:10+ My 7 '25
Don't mention ingredients in your trade-mark. Ptr Ink 131:161-2+ Ap 16 '25
Effective American trade-mark designs. B. F. Berfield. Ptr Ink M 9:39 D '24
Eversharp decision important to advertisers. Ptr Ink 127:174+ My 8 '24
Evolution of the trade-mark. E: I. Devlin, jr. Ptr Ink 132:36+ Ag 6 '25
File of unregistered trade-marks. Ptr Ink 128: 121-2 Ag 14 '24
Finding out whether your trade-mark is describable. R: B. Franken. Ptr Ink M 10:52+ Ap '25
Foresight needed for the protection of trade-marks. Ptr Ink 133:58+ O 1 '25
Forget such terms as trade name and trade-mark design. Ptr Ink 131:85-6 Je 4 '25
From the gold of Croesus to the Gold Dust twins. K. A. Campbell. il Sci Am 132:236-7 Ap '25
Giving seventy products a family identity. B. A. Grimes. Ptr Ink M 10:36+ F '25
Historical foundations of the law relating to trade-marks. F. I. Schechter. 211p [bibliog. p. 173-92] Columbia univ. press, New York '25
How associations can protect trade-mark rights. Ptr Ink 128:134+ Jl 10 '24
How far can an outside party go in repacking a trade-marked product? Ptr Ink 127: 25-6+ Ap 17 '24
How the Department of justice considers association trade-marking and advertising. Ptr Ink 126:101-2+ Ja 10 '24
How to protect a business slogan or trade-mark. E. J. Buckley. Rubber Age 15:53-4 Ap 25 '24
How to select a registrable trade-mark. Ptr Ink 125:77-8+ D 13 '23
If the public misuses your trade-mark. A. E. Haase. Ptr Ink 132:124+ Jl 23 '25
Industries which have too many trade-marks. C: Fischbeck. Ptr Ink 130:57-8+ Ja 22 '25
Interest of trade associations in patents and trade-marks. K. Fenning. Harvard Business R 3:81-4 O '24; Same. Paper Tr J 79:114+ O 30 '24
Is a trade mark valid in unworked territory? Sales Management 8:341 F 21 '25
Law of trade marks and trade name. D. M. Kerly. 5th ed. 916p Sweet & Maxwell, ltd., London '23
Let the public decide validity of trade-marks. Ptr Ink 128:134+ Ag 7 '24
Litigation of vital importance to business that Supreme court will decide. J: F. Richter, jr. Ptr Ink 125:33-4+ N 8 '23
Little sanity, please, in trade-mark designs. Ptr Ink 132:66+ S 10 '25
Little stories of big trademarks. H. E. Agnew. Am Ind 24:17-20 Mr '24
Makers of Bond bread lose appeal. Ptr Ink 130:36 F 12 '25
Making trade-marks follow through to consumers. Ptr Ink 132:95 Ag 20 '25
Misspelled words and trade-mark registration. Ptr Ink 130:169+ F 5 '25
National capitol and portraits of presidents as trade-marks. Ptr Ink M 8:72+ Ap '24
National trade mark law in China. Sci Am 131:21 Jl '24
Oil trademarks for copyright. Nat Pet N 16: 63+ Mr 19; 98-9 Mr 26 '24
Oysters trade-marked and advertised to meet buyers' fright. Ptr Ink 130:60+ Mr 19 '25
Pictorial trade-marks with real significance. W. L. Larned. il Ptr Ink M 10:28-9+ My '25
Present-day aspects of old-time trade-marks. Ptr Ink 132:61-2 Jl 2 '25
Projet de refonte des lois essentielles concernant la propriété industrielle. A. Taillefer. Chimie & Ind 12:770-6 O '24
Proper trade-mark protection in China being sought. Ptr Ink 126:65-6 Mr 27 '24
Proposed industrial property agreement soon in conference at The Hague. A. K. Burditt. Am Mach 63:461-4 S 17 '25
Registration of slogans as trade-marks. Ptr Ink 125:85-6+ N 29 '23
Report of N.P.O. & V.A. committee on trade-marks. Oil Paint & Drug Rep 106:57-8 O 29 '24; 108:64 N 5 '25
Report of N.W.D.A. committee on trade-marks. Oil Paint & Drug Rep 106:17+ O 1 '24; 108:19 O 15 '25
Restrained from use of Gold Medal on prepared flour. Ptr Ink 130:82+ Ja 15 '25
Rubber colors as trade-marks. W. Fawcett. Rubber Age 15:173-4 Je 10 '24
Rubber trade terms often common property. W. Fawcett. Rubber Age 15:423-4 S 10 '24
Screeching superlatives and dancing trade-marks. J. G. Berrien. Sales Management 8:520-2 Ap 4 '25
Selection of a trade-mark. C. L. Jenks. Chem Age 33:31-4, 43-7 Ja-F '25
Should unregistrable trade marks be abandoned? Ptr Ink 132:101-2 S 17 '25
Some legal tricks of trade pirates in infringement suits. Sales Management 8:877-8 Je 13 '25
Some trade-mark fallacies exploded. Ptr Ink 130:93-4+ Mr 26 '25
Story behind the trade-mark "vaseline." L. L. Cleaves. Ptr Ink 125:130+ D 6 '23
Stretching the tying-mark to cover a full line of rubber products. W. Fawcett. Rubber Age 16:190-1 D 25 '24
Tire treads can be registered as trade-marks. Ptr Ink 130:103-4 F 5 '25
Touch of color that makes the product stand out. A. C. Belden. Ptr Ink M 9:37-8+ Jl '24
Trade-mark as consumer protection in limited market. G. A. Nichols. il Ptr Ink M 11: 31-2+ S '25
Trade-mark protection in Latin America. B. A. Kosicki. U S Bur For & Dom Com Trade Information Bul 219:1-28 '24
Trade-mark service is looking up. Ptr Ink 127:81-2 Je 19 '24
Trade marks. Engineering 116:687-8 N 30 '23
Trade-marks for perfumes, toilet articles and soaps. H. G. Hunt, comp. 362p American manufacturers of toilet articles, New York '25
Trademarks prove effective pulling repeat orders. F. G. Steinebach. il Foundry 53:93-6 F 1 '25
Trade-marks that imitate official insignia. Ptr Ink 126:19-20 F 14 '24
Trading on the generic trade-mark; how the Forstmann & Huffmann company protects its registered trade names. H. K. Hollister. Ptr Ink 127:81-2+ Je 26 '24
Trend in trade-mark usage; patent office report. C. P. Carter. Ptr Ink 126:81-2 Ja 24 '24
Try a suggestive trade-mark for that new product. Ptr Ink 130:49-50+ Mr 5 '25
Unregistered trade-marks are in grave danger. Ptr Ink 132:10+ S 24 '25
Use of presidents' portraits for advertising. Ptr Ink 128:113-14 Ag 28 '24
Use of trade-mark on by-products is defined. Ptr Ink 128:172+ S 18 '24
Way is clear for trade-mark registration of house-organs. Ptr Ink 128:68+ S 18 '24
What is a colorable imitation of a trade-mark? A. E. Haase. il Ptr Ink M 9:35+ N '24
What is your trade-mark? C. P. Carter. Ptr Ink 125:25-6 D 20 '23
What makes a good trade-mark. H. A. Toulmin, jr. il System 46:28-31 Jl '24
What you do and do not get when you buy a trade-mark. Ptr Ink 131:64+ Ap 2 '25
When advertising aids in trade-mark dispute. Ptr Ink 125:98+ D 6 '23
When business newcomers cash in on old names. Ptr Ink 128:53-4 Jl 10 '24
When do similar trade-marks conflict? Ptr Ink 131:89-90+ Je 11 '25
When one good trade-mark ties up with another. J. True. Ptr Ink 130:147-8+ Ja 29 '25

TRADE marks—*Continued*
Whose property is a trade-mark? Ptr Ink M 10:100+ My '25
Why distinguishing features are seldom registrable as trade-marks. Ptr Ink 126:138+ F 21 '24
Why Winchester scout was refused registration. Ptr Ink 130:93-4+ F 12 '25
Wrigley's advertising cuts damages in Doublemint gum suit. Ptr Ink 129:41-2+ D 18 '24

See also Advertising characters; Branding; Origin, Indications of; Patents; Trade names; Watermarks

Advertising

Can advertising be too successful? D. Hubbard. Ptr Ink 131:25-6+ Ap 16 '25
Fine art of introducing the trade-mark modestly. Ptr Ink 127:115-18 My 23 '24
Hitting two major problems with one advertising campaign; Robert H. Foerderer, inc., Philadelphia. J. A. Lutz. Ptr Ink 126:77-8+ Ja 17 '24
Tying trade-marks valueless without constant promotion. Ptr Ink 126:103 F 21 '24

Color

Stripes and colors as trade-marks. Ptr Ink 132:41-2+ Jl 16 '25

TRADE marks (international law)
Can America modernize world trade-mark situation? D. Hubbard. Ptr Ink 131:95-6+ Je 18 '25
Industrial property report of International chamber of commerce. Am Mach 62:884 Je 4 '25
International trade mark law and practice. B. G. Ravenscroft. 725p Trade mark law pub. co., New York '25
Proposed industrial property agreement soon in conference at The Hague. A. K. Burditt. Am Mach 63:461-4 S 17 '25
Will clarify world patent and trade-mark situation. D. M. Hubbard. Ptr Ink 132:17-20 Ag 13 '25
World trade-mark unity taken up by League of nations. Ptr Ink 129:10+ O 16 '24

TRADE names
Advertising leads the way in spelling reform. R: Surrey. Ptr Ink 129:103-4+ N 6 '24
Are short trade names always the best? L. E. Firth. Ptr Ink 127:137-8 Ap 3 '24
Can you get boy scout sanction for your product? Ptr Ink 130:101-2+ Mr 26 '25
Chemical synonyms and trade names. W: Gardner. 275p Van Nostrand '24
Four basic ways to handle a difficult trade name. A. E. Haase. Ptr Ink M 10:24-5+ Mr '25
Good name is rather to be chosen than riches. W. K. Halbert. Nat Pet N 16:61-2 Jl 23 '24
How a trade name is coined. Ptr Ink 127:143-4 Je 5 '24
How Rollins gave new name to thirty-one-year-old product. M. Harlan. Ptr Ink 126: 17-20T F 7 '24
Selecting the best name for your product. R: B. Franken. Ptr Ink M 9:45-6+ D '24
Some pitfalls to avoid in selecting a new trade name. W. G. Caldwell. Sales Management 6:970+ My '24
Trade names now in use on face brick and other clay products. See biweekly numbers of Brick and clay record
Using the package to simplify the hard-to-pronounce name; Sempre Giovine. C: G. Muller. il Ptr Ink M 11:65-6 Ag '25
What should Victor call its new models? Ptr Ink 133:49-50+ O 8 '25

See also Corporate names; Trade marks

TRADE schools
Canton trade school. il Dom Eng 108:27-8 S 6 '24
Texas courses for training bricklayers and plasterers. Eng & Contr (Bldgs) 61:215 Ja 23 '24

See also Corporation schools; Industrial education; Printing, Practical—Study and teaching; Technical education; Textile schools; *also* London school of printing; Milwaukee vocational school; Worcester boys' trade school, Worcester, Massachusetts

Directories

Directory of trade schools. 38p U.S. Fed. bd. for vocational education, Washington, D.C. '25

TRADE secrets
Disclosure of trade secrets. Chem Age 32:316 Jl '24
Modern industry's mid-Victorian companion; the trade secret. B. K. Brown. bibliog Chem & Met Eng 31:854-6 D 1 '24
What is a business secret? J. H. Collins. Ptr Ink M 10:17-18+ Je '25

TRADE statistics. See Industrial statistics

TRADE tests. See Ability tests

TRADE union committee of Belgium
Congress, 22d, Brussels, July 27-28. Monthly Labor R 17:1195-6 N '23

TRADE union insurance. See Insurance, Trade union

TRADE unions
Are electric goods to bear union label? Elec W 85:897 Ap 25 '25
Freedom of association and trade unionism: an introductory survey. J. Nicod. Int Labour R 9:467-80 Ap '24
Jurisdictional menace today. C: B. King. Am Ind 25:41-5 Jl '25
Labor leader or capitalist—which? an editorial article outlining the shifting viewpoint of Warren S. Stone. Ry Age 78:873-4 Ap 4 '25
Labor movement in the shoe industry. A. E. Galster. 237p [bibliog. p. 225-9] Ronald press '24
Labor organizations. Published in monthly numbers of Monthly labor review
Scientific management and organized labor today. G. C. Brown. Taylor Soc Bul 10:132-9; Discussion. 139-53 Je '25
Steadying the workers' income—trade-union and joint out-of-work benefit plans. M. Gadsby. Monthly Labor R 19:8-32 Jl '24
Taylor and trade unions. F. B. Copley. Taylor Soc Bul 10:182-4 Ag '25
Trade-union organization in foreign countries. Monthly Labor R 20:1384-7 Je '25
Unions essential in any co-operation program. G: Soule. Ry Age 77:411-12 S 6 '24
What labor's entrance into home-building means to you. R. Crothers. Ptr Ink 131: 107-8 My 7 '25
Women in trade-unions. Monthly Labor R 19: 398-400 Ag '24

See also Advertising, Trade union; Arbitration, Industrial; Banks and banking, Trade union; Cooperation; Insurance, Trade union; Labor and laboring classes; Open and closed shop; Strikes and lockouts; Trade agreements; *also* American federation of labor; International ladies' garment workers' union; Workers' health bureau

Directories

International labor directory. In American labor yearbook, 1925 p436-47 '25
Twenty-third annual directory of labor organizations in Massachusetts, 1924. 52p Mass. Dept. of labor and industries, Boston

Investment funds

Trade union investment funds in Belgium, France, Germany, and Spain. M. Turmann. Int Labour R 12:372-85 S '25

Law

Decisions of courts and opinions affecting labor, 1922. L. D. Clark and D. F. Callahan. U S Bur Labor Statistics Bul 344:157-225 '23
Recovery of damages for wrongful expulsion from labor organizatons. Monthly Labor R 18:1135-6 My '24
Supreme court sustains employers; decision in case of San Francisco organizations. Iron Age 115:1141+ Ap 16 '25

TRADE unions—*Continued*

Australia

See Labor party (Australia)

Brazil

Trade-union movement and wages in Brazil. J. A. Rowan. Monthly Labor R 21:467-77 S '25

Canada

Canadian trade unions. Bradstreet's 52:350 My 31 '24

Trade-unionism in Canada, 1923. Monthly Labor R 19:225-6 Jl '24

China

Labor unions in Shanghai, China. Monthly Labor R 18:662-5 Mr '24

Germany

German metal workers' federation. F. Kummer. Monthly Labor R 18:740-50 Ap '24

Membership of general federation of German free trade-unions, 1923. Monthly Labor R 20:926-7 Ap '25

Great Britain

Back to the unions. Economist 99:860-1 N 29 '24

Clerical trades unions in Britain and Russia. Annalist 23:182+ F 4 '24

Organized labour. G: D. H. Cole. 182p G. Allen and Unwin, ltd.; Labour pub. co., ltd., London '24

Outline of the British labor movement. P. Blanshard. 174p Doran '23

Trade unionism. W: A. Appleton. 159p Hodder and Stoughton, ltd., London '24

Trade unions, their past, present, and future. W: A. Appleton. 183p P. Allan & co., London '25

Union labor—England's greatest problem. J. F. Whiteford. Ind Management 69:65-9 F '25

Netherlands

Trade-union statistics of the Netherlands, January 1, 1923. Monthly Labor R 18:1152-3 My '24

Norway

Norwegian federation of trade-unions, 1924. Monthly Labor R 21:859 O '25

Trade-union movement in Norway, 1922. Monthly Labor R 17:1401-2 D '23

Palestine

Trade-unionism in Palestine. J. W. Brown. Monthly Labor R 21:859-61 O '25

Rumania

Labour organisations in Roumania. N. Ghiulea. Int Labour R 9:31-49 Ja '24

Russia

Clerical trades unions in Britain and Russia. Annalist 23:182+ F 4 '24

Switzerland

Trade-unionism in Switzerland, 1923. Monthly Labor R 20:927-8 Ap '25

United States

Co-operation between labor unions and railways. Ry Age 75:993-4, 1093-4, 1096 D 1, 15 '23

Co-operation—organized railroad labor's contribution. W: H. Johnston. Ry Age 75:954-7 N 24 '23; Same abr. Ry Mech Eng 97:799-801 D '23; Discussion. Ry Age 76:180 Ja 12 '24

Great obsession. R. W. Bruère; reply by E. Mayo. Taylor Soc Bul 10:220-5 O '25

Growth of American trade unions, 1880-1923. L. Wolman. 170p National bur. of economic research, inc., New York '24; Abstract. Monthly Labor R 20:700-1 Mr '25

Labor movement in a government industry. S. D. Spero. 320p Doran '24

Rebellion in labor unions. S. Kopald. 293p Boni & Liveright, New York '24

Trade unionism in the United States. R. F. Hoxie. 2d ed. 468p Appleton '23

Women trade unionists in the United States. A. G. Maher. Int Labour R 11:366-80 Mr '25

See also Coal miners—United States

TRADE-unions, International federation of. See International federation of trade-unions

TRADE waste

Activated-sludge experiments on packing house wastes. G. L. Fugate. diag Eng N 94:443-5 Mr 12 '25

Chemical engineering problems in waste disposal. Chem & Met Eng 31:626 O 20 '24

Chlorine in sewage and waste disposal. J. C. Baker. il Ind & Eng Chem 17:1059-60 O '25; Same. Can Eng 50:127-8 Ja 12 '26

Concrete pipe line and flume for factory waste water. diags Eng N 94:475 Mr 19 '25

Creamery waste purification by means of activated sludge. Eng N 93:152 Ja 24 '24

Deposits in Peabody sewers. il Pub Works 55: 230-1 Jl '24

Disposal of creamery waste. J. I. Connolly. Eng & Contr (W W) 62:105-8 Jl 9 '24

Disposal of industrial wastes in United States. H. P. Eddy. Can Eng 47:395-7 O 7 '24; Same. Nation's Health 6:588-90 S '24; Same cond. Eng & Contr (W W) 62:353-5 Ag 13 '24

Disposal of liquid trade wastes. J. H. Garner. Soc Dyers & Col J 41:299-302 S '25

Disposal of waste from beet sugar industry. E. Bartow. Am Inst Chem Eng Trans v 16 pt 1:47-53 '24; Same. Chem Age 32:373-5 S '24

Disposal of wastes from dyehouses and textile operations. A. O. True. Am Water Works Assn J 11:896-903 Jl '24

Disposing of phenol wastes. R. D. Leitch. Pub Works 56:360-1 O '25

Distillery waste liquids and their purification. R. D. Littlefield. diags plans Soc Chem Ind J (Chem & Ind) 44:860-7 Ag 28 '25

Effect of industrial wastes on sewage problems. L. Pearse. Munic & Co Eng 67:180-1 O '24

Industrial waste disposal stressed at A.I.C.E. meeting. Chem & Met Eng 32:615-17 Jl '25

Industrial wastes and water supplies. Can Eng 45:529-31 N 27 '23

Lime in the treatment of trade wastes. R. H. Ferguson. Chem Age 32:301-4 Jl '24; Same. Munic & Co Eng 67:256-60 N '24; Same. Can Chem & Met 8:292-4 D '24; Abstract. Nation's Health 7:182 Mr '25

New methods of treating industrial waste. C: H. Hurd. Eng N 94:813 My 14 '25

Pollution of streams by pulp-mill wastes. G: C. Whipple. Paper Tr J 79:46-9 S 18 '24

Progress report on agencies for the control of pollution by industrial wastes. Am Water Works Assn J 11:628-48 My '24; Discussion. 12:410-16 D '24

Proposal for reducing the contamination of streams by strawboard mills. J: D. Rue and F. G. Rawling. Paper Tr J 81:48-9 O 8 '25; Excerpt. Chem & Met Eng 32:927 D '25

Purification of trade wastes. H. Kessener. Eng & Contr (W W) 62:1067-70 N 12 '24

Recovering pickling acid waste. R. M. Crawford. Iron Tr R 75:948 O 9 '24

Studies on the treatment and the disposal of dairy wastes. C. L. Walker and others. (Bul. 425) 170p Cornell univ. agricultural exp. sta., Ithaca '23; Conclusions and recommendations. Eng & Contr (W W) 61:357-9 F 13 '24

Tastes in the water supply of Marquette, Mich., due to phenol wastes. P. Hansen. flow sheet diags plans N E Water Works Assn J 39:320-42 D '25; Abstract. Eng N 95:469 S 17 '25; Discussion. N E Water Works Assn J 39:343-4 D '25

Textile wastes and stream pollution. E. B. Besselievre. Am Dyestuff Rep 13:743-7; Discussion. 747-53 N 17 '24

Toxicity of trade waste. H. F. Stephenson. Soc Chem Ind J (Chem & Ind) 44:23-4 Ja 9 '25

TRADE waste—*Continued*
Treatment of industrial wastes. H. P. Eddy. Eng & Contr (W W) 60:1261-2 D 12 '23
Treatment of industrial wastes to prevent stream pollution. F. Bachmann and E. B. Besselievre. Am Inst Chem Eng Trans v 16 pt 1:203-9 '24; Same cond. Chem & Met Eng 31:386-7 S 8 '24
Treatment of sewage in Scandinavia. G. P. Harvey. Can Eng 47:399-402 O 7 '24; Same. Eng & Contr (W W) 63:311-17 F 11 '25
Treatment of waste waters from dyeing processes. S. N. Brown. Soc Dyers & Col J 40: 144-7 My '24; Same. Am Dyestuff Rep 13: 569-71 Ag 25 '24
Use of lime in preventing stream pollution. E. B. Besselievre. il Chem & Met Eng 32: 634-5 Jl '25
Wastes from pulp and paper mills chemically considered. H. W. Clark. Paper Tr J 79:43-4 S 11 '24
Wool-scouring waste liquors—composition and disposal. F. P. Veitch and L. C. Benedict. Am Dyestuff Rep 14:449-57 Jl 13 '25

See also Acid waste; Coal mines and mining—Waste disposal; Garages—Drainage; Mine water; Paper mills—Waste; Refuse, Utilization of; Refuse disposal; Sewerage; Sulfite liquor; Waste; Waste products; Water pollution; *also* National coast anti-pollution league

TRADING down. See Quality of products

TRAFFIC. See Bridge traffic; Road traffic; Street railroads—Traffic; Street traffic

TRAFFIC regulations
Active city planning body needed in every town. A. Macauley. Automotive Ind 52:138-9 Ja 22 '25
Automobile laws of Ohio, 1925. J: L. McChord. 152p Ohio state automobile assn., Cleveland '25
Automobile parking problem; text of the report and recommendations made by the Committee of the New York state conference of mayors and other city officials. Aera 12:2051-7 Jl '24
Brass-tack economics of city traffic congestion. H. Bartholomew. il Forbes 15:91-4 O 15 '24
City planning and the automobile. A. Macauley. Munic & Co Eng 68:217-20 My '25; Excerpts. Pub Works 55:285-6 S '24
City planning to serve mass transportation. map Bus Transportation 4:373-6 Ag '25
Congestion, traffic control and rapid transit. D. W. Pontius. Elec Ry J 66:618-19 O 10 '25
Control of street traffic. 30p Merchants' assn. of New York, New York '24
Co-ordinating traffic movement in existing streets. R. F. Kelker, jr. il diags Elec Ry J 66:483-6 S 26 '25
Economic life of the city in relation to street traffic. C. A. Copper. Aera 14:193-200 S '25
Elements of the city traffic problem reviewed. J. R. Bibbins. Eng N 92:12-13 Ja 3 '24
Enforcement of traffic regulations by Police bureau. L. W. McIntyre. Munic & Co Eng 69:125-33 S '25; Excerpts. Eng & Contr (R & S) 63:706-8 Ap 1 '25
Enforcing traffic regulations on the highways. R. B. Stoeckel. il Can Eng 49:416-19 S 29 '25
Experts report on accident prevention study. E. Greenwood. Bus Transportation 3:569-71 D '24
First national conference on street and highway safety. 51p National capital press, inc., Washington '24
Getting together on the traffic problem. Sci Am 130:384 Je '24
Have we too many traffic laws? J. W. Bayless. il Sci Am 133:318-19 N '25
Highway traffic in New York and its environs. H. M. Lewis and E. P. Goodrich. 127p Regional plan of New York and its environs, New York '25; Abstracts. Good Roads 67:6-9, 46-8 Jl-Ag '24; Eng N 92:941-3 My 29 '24; Review. Good Roads 68:251-2 O '25
Highways and traffic. F. S. Besson. il diags Soc Auto Eng J 14:594-601 Je '24
How shall we solve traffic problems? J. R. Bibbins. Elec Ry J 63:285-6 F 23 '24
Important points in traffic control. J. R. Bibbins. Elec Ry J 63:325-8 Mr 1 '24
Improving traffic conditions in Cleveland. J: J. Stanley. Elec Ry J 63:375-6 Mr 8 '24
Increasing the capacity of existing streets. A. S. Tuttle. il diags Am Soc C E Pro 50: 593-605 My '24; Same. Eng & Contr (R & S) 62:7-12 Jl 2 '24; Discussion. Am Soc C E Pro 50:706-27, 898-900 My, Ag '24
Los Angeles simplifies traffic laws and reduces accidents. C. R. Snethen. il Nat Safety N 12:25-6 Jl '25
Methods of city traffic control. R. F. Kelker, jr. Nat Safety N 9:11-12 Mr '24
Metropolitan traffic problems. H. Bartholomew. Elec Ry J 65:818-19 My 23 '25
New Los Angeles ordinance sets high standard. Nat Safety N 11:22 Ja '25
New plan for traffic laws; it is stops, not speeds, that matter. H. W. Slauson. il Sci Am 132:296-8 My '25
New plan to route motor traffic through cities. Munic & Co Eng 67:197-8 O '24
New traffic code for St Louis drivers. G. G. Varnum. Nat Safety N 9:41-2 My '24
New traffic regulations aid railway operation in Pittsburgh. il plans Elec Ry J 65:847-9 My 30 '25
Pedestrian, as well as driver, needs traffic education; New Haven conference develops constructive ideas on elimination of highway accidents. N. G. Shidle. Automotive Ind 50:856-8 Ap 17 '24
Pedestrians move with traffic at Los Angeles intersections. il Eng N 94:761 My 7 '25
Philadelphia's traffic problems and their solution. J. B. Weeks. Ann Am Acad 116: 235-40 N '24
Plans for regulating traffic in Paris. Eng N 94:235 F 5 '25
Proceedings of a conference on motor vehicle traffic. R: S. Kirby, ed. 179p Yale univ. press, New Haven '24
Public safety. S. J. Williams. W Soc E J 30:149-53 Ap '25
Regulations of traffic in city of 100,000. F. H. Locke. il Eng & Contr (R & S) 60:981-2 N 7 '23
Report of the T. & T. A. committee on traffic congestion. Elec Ry J 66:641-2 O 10 '25
Revolutionary traffic regulations in Philadelphia. diag Elec Ry J 63:806 My 24 '24
Rotary traffic control system; how it has been employed by Providence, Rhode Island. G: T. Seabury. il map Good Roads 67:10-11+ Jl '24
St. Louis conference urges broad traffic reforms. Nat Safety N 11:35-6 Je '25
Speeding up traffic in Detroit. il map Elec Ry J 63:927-30 Je 14 '24
Street and highway safety; National conference formulates comprehensive recommendations. Soc Auto Eng J 16:53-8+ Ja '25; Eng N 93:1038-42 D 25 '24; Automotive Ind 51:1073-7 D 25 '24; Can Eng 47:582 D 9 '24; Elec Ry J 64:1042-4 D 20 '24; Bus Transportation 4:35-8 Ja '25; Aera 13:1020-7 Ja '25; Eng & Contr (R & S) 63:40-2 Ja 7 '25; Nat Safety N 11:19-21 Ja '25; Pub Works 56:29-30 Ja '25; Good Roads 68:57, 88 F-Mr '25
Street traffic control apparatus. G. F. Prideaux. il diag Gen Elec R 27:104-11 F '24
Synchronized traffic control is costly to street railway. L. D. Bale. il plan Aera 14:163-9 S '25
Taxicab owners present model ordinance at convention. Nat Safety N 9:25 Je '24
Taxicabs restricted from cruising on certain streets in New York. Automotive Ind 50: 1282-3 Je 12 '24
Traffic and congestion. R. J. Lockwood. Elec Ry J 63:983-5 Je 21 '24
Traffic and the law. il Sci Am 130:18-19+ Ja '24
Traffic commission of Los Angeles. P. G. Hoffman. chart diag Ann Am Acad 116:246-50 N '24

TRAFFIC regulations—*Continued*
Traffic congestion and its control. Soc Auto Eng J 17:430-2 N '25
Traffic control and safety. E. W. James. il diags map plan Pub Roads 5:1-9+ Ag '24; Excerpts. Good Roads 67:73-4+ S '24; Abstract. Automotive Ind 51:492-4 S 11 '24
Traffic control at grade crossings by mechanical devices. A. H. Blanchard. Eng & Contr (R & S) 64:995-1000 N 4 '25; Same cond. Good Roads 68:303-5+ D '25
Traffic-control problems. M. L. Ireland. diags Soc Auto Eng J 14:368-9 Ap '24
Traffic improvements proposed for Indianapolis. Elec Ry J 64:14-15 Jl 5 '24
Traffic officer and his training. M. McClintock. Nat Safety N 9:19-21 Mr '24
Traffic problems of the large city. G: C. Kelcey. il maps Sci Am 131:236-7+ O '24
Traffic regulation aids accident prevention. R. W Emerson. Elec Ry J 66:710 O 17 '25
Traffic regulations. Eng N 93:713-14 O 30 '24
Traffic relief in Los Angeles. G: B. Anderson. charts Elec Ry J 63:372-3 Mr 8 '24
Traffic study in relation to accident prevention. G. G. Kelcey. diags Nat Safety N 8: 25-8 O '23; Abstract. Pub Works 55:84-5 Mr '24
Traffic violations and the court. S. E. Rose. Ann Am Acad 116:185-90 N '24
Two views of traffic control. P. A. Powers. Elec W 85:275 Ja 31 '25
Unified traffic control tried in Los Angeles. il Elec Ry J 63:579 Ap 12 '24
Uniform traffic laws proposed. G: M. O'Connor. Elec Ry J 65:113 Ja 17 '25
Urgent necessity for uniform traffic laws and public safety devices. T: H. MacDonald. Manuf Rec 87:87-9 Ja 1 '25
What the automobile tourist should know about safety. H. M. Brown. il Nat Safety N 9:26-8 Je '24
Why traffic planning? A. G. Straetz. Eng & Contr (R & S) 63:999-1000 My 6 '25

See also Automobile laws and regulations; Jitney buses—Regulation; Motor bus lines—Laws and regulations; Motor trucks—Laws and regulations; Motor vehicles—Law; Road traffic; Street traffic; Traffic signals

TRAFFIC signals
Bureau of standards' tests show red traffic light most easily seen. Eng N 93:802 N 13 '24
Colors and forms of traffic signals. il Pub Roads 6:134-6 Ag '25; Same. Pub Works 56: 324-6 S '25; Same. Safety Eng 50:224-7 O '25; Excerpt. Munic & Co Eng 69:55 Jl '25; Same. Mech Eng 47:676 Ag '25; Same. Eng & Contr (R & S) 64:517 S 2 '25
Colors, forms and symbols for highway traffic regulation. W. S. Paine. il Nat Safety N 12:43-5 O '25
Electrically-controlled traffic signals adopted in Dallas. W. J. Powell. il Eng N 91:856 N 22 '23
Electrically interlocked traffic signals from a safety standpoint. K. W. Mackall. il Safety Eng 47:153-9 Mr '24; Same cond. Nat Safety N 9:23-5 Mr '24
Flint's new traffic signal. H. C. McClure. il Pub Works 55:191-2 Je '24
Highway signs and signals. Eng & Contr (R & S) 63:466 Mr 4 '25
How signal lights have aided Syracuse traffic. D. E. Lillis and H. M. Starling. il Nat Safety N 11:29-30 My '25
Klug and Smith automatic traffic cop. il Pub Works 55:sup44+ D '24
Lighting for traffic control. H. F. Ilgner. Illum Eng Soc 20:399-401 Ap '25
New system of traffic signals. Safety Eng 49: 279-80 Je '25
New traffic control successful in Philadelphia. il Elec Ry J 64:51-2 Jl 12 '24
New York City extends traffic control system. Eng & Contr (R & S) 64:816 O 7 '25
One year of traffic lights on the "Boul Mich." W: G. Beard. il Nat Safety N 10:49+ O '24
Railway signaling methods for public roads. L: E. Moore. il diag Eng N 94:140-4 Ja 22 '25; Discussion. R: B. Hussey. 94:451 Mr 12 '25
Safety standard for warning lamp. W. W. Monks. diags Eng N 93:965-6 D 11 '24
Safety traffic signals on highways. R. J. Durley. Can Eng 47:175-8 Jl 22 '24; Same cond. Eng & Contr (R & S) 62:521-5 S 3 '24
Schenectady has novel traffic signal. il Elec Ry J 63:935 Je 14 '24
Signal systems for speeding traffic and avoiding accidents. il Safety Eng 46:268-76 D '23
Signals and safety. Aera 12:1380-3 Mr '24
Street traffic control apparatus. G. F. Prideaux. il diag Gen Elec R 27:104-11 F '24
The third signal. E. W: Hobbs. diags Nat Safety N 10:17-18 Ag '24
Traffic control systems. C. A. B. Halvorson, jr. il Illum Eng Soc 20:60-71; Discussion. 71-8 Ja '25
Traffic signal as life saver and revenue producer. H. Maynard, jr. N E L A Bul 11:448-9 Jl '24
Traffic signal designed to stand between tracks. il Elec Ry J 64:194 Ag 9 '24
Traffic signal gives positive directions. il Bus Transportation 3:474-5 O '24
Traffic signal operation in Kalamazoo. E. E. Norman. Elec W 85:770 Ap 11 '25
Traffic signal systems use many castings. F. G. Steinbach. il Foundry 53:783-6+ O 1 '25
Urges four-direction traffic signals. W. W. Arnheim. il Safety Eng 50:61 Jl '25
Utility companies as traffic signal consultants. Elec W 86:401, 750 Ag 29, O 10 '25
Visibility of traffic signals. Eng & Contr (R & S) 62:1034 N 5 '24

TRAFFIC surveys
Development of highway traffic in California. L. I. Hewes. Am Soc C E Pro 51:377-91 Mr '25; Same cond. Pub Roads 5:10-15 D '24
Maine highway transportation survey; a preliminary report. J. G. McKay and O. M. Elvehjem. maps Pub Roads 6:45-58+ My '25; Excerpt. Eng & Contr (R & S) 64:773-81 O 7 '25
Methods and costs of making traffic surveys. G: E. Hamlin. Munic Eng 66:65-9 F '24
1923 traffic census in Great Britain. Engineering 118:837 D 19 '24
Objects and methods of highway transportation surveys. G. E. Hamlin. Eng N 93: 957-8 D 11 '24
Pennsylvania highway transport survey. Pub Roads 5:10-11 Je '24; Same. Munic & Co Eng 67:41-3 Jl '24; Same. Eng N 93:98-9 Jl 17 '24; Same. Eng & Contr (R & S) 62:37-8 Jl 2 '24
Pennsylvania highway transport survey. W: H. Connell. Munic & Co Eng 68:195-203 Ap '25; Excerpts. Eng & Contr (R & S) 63:675-9 Ap 1 '25
Preliminary road traffic counts in Pennsylvania survey. W. A. Van Duzer. Eng N 93:998 D 18 '24
Purpose of the traffic census. J. P. Bickle. Can Eng 47:272-3 Ag 26 '24
Regional highway traffic problem of New York city. E. P. Goodrich and H. M. Lewis. maps Eng N 92:941-3 My 29 '24
Results of traffic census in Quebec. J. L. Boulanger. Can Eng 49:455-7 O 13 '25; Excerpt. Eng & Contr (R & S) 64:1024-5 N 4 '25; Discussion. R. M. Smith. Can Eng 49: 457-9 O 13 '25
Results of traffic surveys. J. G. McKay. Eng & Contr (R & S) 62:26-30 Jl 2 '24; Same cond., with diags and maps. Eng N 92:526-30 Mr 27 '24; Discussion. J. E. Pennybacker. 92:821-2 My 8 '24
Surveying suburban traffic wants. diags map Elec Ry J 65:129-32 Ja 24 '25
Traffic census in Quebec province. Can Eng 47:325 S 9 '24
Traffic count of vehicles at New York city. Eng & Contr (R & S) 63:971 My 6 '25
Traffic counts in Massachusetts. Eng & Contr (R & S) 64:808-9 O 7 '25
Traffic survey of Cook county, Ill., highway system. Eng & Contr (R & S) 62:30-1 Jl 2 '24

TRAFFIC surveys—*Continued*
Transportation problems studied in the District of Columbia. maps Elec Ry J 66:767-72 O 31 '25
Transportation survey made for District of Columbia. Eng N 95:721 O 29 '25
Transportation surveys. Eng N 93:713 O 30 '24
Vehicular traffic in Chicago and Cook county. G: A. Quinlan. flow chart map W Soc E J 30:158-67 Ap '25; Same abr. Munic & Co Eng 68:125-8 Mr '25
What the Washington traffic survey reveals. W: E. R. Covell. il Forbes 17:16-18 O 15 '25
Why a traffic survey? J: A. Beeler. Aera 13: 596-8 N '24; Same. Eng & Contr (Ry) 63: 356-8 F 18 '25

TRAGACANTH
Tragacanth; abstract. W. Peyer. Soc Dyers & Col J 41:222 Je '25

TRAIL associations
Trail associations now unnecessary. I. J. Moe. Munic & Co Eng 69:182 O '25

TRAILERS. See Motor bus trailers; Motor cars (railroad)—Trailers; Motor truck trailers; Street cars—Trailers; Tractors, Industrial

TRAIN control, Automatic. See Railroads—Automatic stop and train control

TRAIN dispatching. See Electric railroads—Train dispatching; Railroads—Train dispatching

TRAIN ferries
Car ferries aid transportation across Lake Michigan. il map Ry Age 79:429-33 S 5 '25
Car-ferry for an African railway. Eng N 93: 721 O 30 '24
Car ferry Pere Marquette 21 commissioned. il diags plans Marine Eng 29:520-1 S '24
Cradles for a train ferry service in Nigeria. il diags plans Engineer 138:182-4, 186 Ag 15 '24; Same. Eng & Contr (Ry) 62:645-50 S 17 '24
Gasoline-driven car float effects economy. il Elec Ry J 65:264 F 14 '25
Harbor equipment of the Pennsylvania railroad. Eng & Contr (Ry) 62:1118-20 N 19 '24
Harwich-Zeebrugge train ferry. il Engineer 137:476, 477-8 My 2 '24
Japanese train-ferry turbine steamer Shoho-Maru. Engineering 118:735, pl 77 N 28 '24
Mississippi car-transfer steamer for Gulf Coast lines. il diag Eng N 92:1064-5 Je 19 '24
Sur les bacs porte-trains et spécialement sur le service entre l'Angleterre et la Belgique. L: Ravier. diags maps Soc Ing Civils Bul 78:524-39, pl 95 Jl '25
Train ferries. Engineer 137:221 F 29 '24

TRAIN load. See Railroads—Train load

TRAIN resistance
L'équivalence piézométrique du débit des transports. A. Talon. Génie Civil 86:66-7 Ja 17 '25
See also Locomotive resistance

TRAIN-rule books. See Railroads—Trainmen's manuals

TRAIN speed. See Railroads—Train speed

TRAINS. See Railroads—Trains; Street railroads—Trains

TRAINSHEDS. See Railroads—Trainsheds

TRAMP steamers. See Freight ships

TRAMWAYS and light railways association
Annual congress, 16th, Edinburgh, July 3-4. Elec R (Lond) 95:74-5, 115-16 Jl 11-18 '24; Electrician 93:126-7 Ag 1 '24
Annual meeting, London, Feb. 27. Electrician 94:278 Mr 6 '25; Elec R (Lond) 96:367-8 Mr 6 '25

TRANSFER bridges
New float bridges for Long Island R.R. il Ry R 76:575 Mr 21 '25

TRANSFER tables
35-ton electric surface traverser. il diag Engineer 138:84-5 Jl 18 '24
Warning signal for contact plows out of gage. W. B. Uffert. il diag Elec Ry J 66: 729-30 O 24 '25

TRANSFERENCE numbers. See Ions

TRANSFORMATION (chemistry)
Some cases of polymorphic transformation energies. A. Hare. Philos Mag 6th ser 48:412-21 S '24

TRANSFORMATIONS (mathematics)
Transformations of surfaces. L. P. Eisenhart. 379p Princeton univ. press, Princeton '23

TRANSFORMER oil. See Oil, Transformer

TRANSFORMERS, Electric. See Electric transformers

TRANSFORMERS, Radio. See Radio transformers

TRANSITION layer
Effect of a transition layer on intrinsic potential. P. V. Wells. Phys R 23:205-8 F '24

TRANSMISSION, Electric. See Electric transmission

TRANSMISSION towers. See Electric lines—Poles and towers

TRANSMITTERS, Radio. See Radio transmitters

TRANSMUTATION of metals
Cracking the lead atom. A. Smits and A. Karssen. il diag Sci Am 133:230-1 O '25
Making gold from quicksilver. J. Rubinfeld. Eng & Min J 118:730 N 8 '24
Tests fail to confirm transmutation to gold. il Sci Am 133:296-7 N '25
Transmutation of mercury into gold; abstract. H. Nagaoka. J Fr Inst 200:594 N '25
Why we are trying to make gold. Sci Am 131: 389 D '24

TRANSPORTATION
Communications. W. T. Stephenson. (Resources of the Empire ser. v. 10) 180p Van Nostrand '24
Cross-country transport. Engineering 117:242-3 F 22 '24
Economic problems of car, bus and boat transport in Paris. Elec Ry J 63:415-17 Mr 15 '24
Electric railways—do we need them? B. C. Cobb. Munic & Co Eng 67:115-22 S '24
Influence of transportation on the growth of cities; public ownership and private management of the transport facilities as well as possible public ownership of suburban areas suitable for wholesale housing plans. G. Delavenne. Elec Ry J 64:171-2 Ag 2 '24
Modern industry annihilates space. J: A. Piquet. il Ind Management 70:6-11 Jl '25
Rail, water and highway transportation as viewed by rail engineers. R. H. Ford. Munic & Co Eng 68:160-2, 178-81 Mr-Ap '25
Shipping waste and shipping too far. I. S. Paull. il Nation's Business 13:48-9 Jl '25
Some economic aspects of transportation. J. H. Parmelee. Special Lib 16:39-41 F '25
Some random notes on transportation. E. H. Rogers. Boston Soc C E J 12:161-8 Ap '25
Transportation units in struggle for supremacy. D. W. Hyde, jr. Special Lib 16:56-7 F '25
Utilization of motive power; comparison of steam locomotives, buses, elevated cars and taxicabs. R: Lawrence. il Ry Age 79:319-20 Ag 15 '25
Yard stick to co-ordinate and stabilize transport services. R. T. Bonham. Bus Transportation 3:208-9 My '24
See also Aeronautics, Commercial; Airplanes; Airships; Automobiles; Barges; Bridges; Cableways; Canals; Coal handling; Commerce; Communication and traffic; Delivery of goods; Demurrage; Electric railroads; Electric vehicles; Express companies; Express service; Factory transportation; Ferryboats; Freight car service; Freight cars; Freight handling; Harbors; Haulage; Highway law; Highway transportation; Jitney buses; Mechanical handling; Merchant marine; Mine haulage; Motor bus lines; Motor trucks; Motor trucks in freight service; Motor vehicles; Moving platforms; Ore transportation; Packing for shipment;

TRANSPORTATION—*Continued*

Parcel post; Pneumatic conveying; Ports; Postal service; Postal service, Aerial; Railroads; Railroads, Industrial; Rapid transit; River traffic; Road traffic; Roads; Shipping; Steamboat lines; Steamboats; Street railroads; Street traffic; Streets; Terminals; Traffic regulations; Trucks; Vehicles; Waterways; *also* subdivision Transportation under special subjects, e.g. Automobiles—Transportation; Coal—Transportation; Explosives—Transportation; Farm produce—Transportation; Lumber—Transportation; Milk—Transportation; Petroleum—Transportation; School children—Transportation; *also* subdivision Railroads under names of cities, e.g. New York (city)—Railroads; *also* Institute of transport

Cost

Cheapness justifies waterway transportation C. W. Kutz. Ry Age 78:1139-41 My 9 '25

Comparison of rail and river transportation costs in relation to the Ohio river and its tributaries. F. H. Alfred. Am Soc C E Pro 51:1663-73 O '25

Comparison of transportation costs by rail and via Barge canal. Bur Railway Econ misc ser 36:1-16 '25

Cost of equipment and haulage; comparison for railroad and canalized river. Am Soc C E Pro 51:322 F '25

Waterway transportation uneconomic. F. H. Alfred. Ry Age 78:1141-2 My 9 '25

See also Railroads—Costs; Street railroads—Costs

Statistics

Ocean, river, and railroad transportation, 1922-1924. Survey of Cur Business 30:162-70 F '24 [continued semiannually]

Trend of business movements; transportation. Published in monthly numbers of Survey of current business

Africa

Transportation in interior Africa. Eng & Min J 120:260-1 Ag 15 '25

Canada

Economics of transportation. R. A. C. Henry. Can Eng 49:479-80; Discussion. J. L. Busfield. 480-2 O 20 '25

England

Small-consignment commodity-distribution in London and its environs. J. Paterson. chart maps Soc Auto Eng J 15:352-8 O '24; Discussion. 16:326-9 Mr '25

Southern states

Land where transportation spells transformation. F. J. Lisman. Forbes 15:471-2 Ja 15 '25

United States

American transportation. S: Rea. Mech Eng 47:871-4 N '25; Excerpts. Ry Age 79:658-60 O 10 '25; Ry R 77:593-4 O 17 '25

Chamber of commerce discusses transportation. Ry Age 76:1205-7 My 17 '24

Co-operation vs. competition in transportation service. F. H. Dixon. Eng & Contr (R & S) 61:1212-17 Je 4 '24; Same. Munic & Co Eng 66:210-15 My '24

Fundamentals of transportation. C: F. Walden. Rev. ed. 214p Association press, New York '24

How to make rail and water rates pay. T. C. Powell. Ry R 77:882-5 D 12 '25; Same cond. Ry Age 79:845-6 N 7 '25

Our transportation problems. A. P. Thom. Ry Age 79:716-18 O 17 '25

Relation of the Ohio river and its tributaries to transportation in the United States; a symposium. Am Soc C E Pro 51:1641-76 O '25; Discussion. 51:1883-96, 2017-24; 52:135-44 N '25-Ja '26

Secretary Hoover on transportation. Ind Management 67:70 F '24

Task of selling shippers coordinated transportation is under way. J. Dalton. Automotive Ind 50:189-91 Ja 24 '24

Trend of business movements. Published in monthly numbers of Survey of current business

U.S. Chamber makes 14 recommendations. Automotive Ind 50:734 Mr 27 '24; Same. Ry Age 76:851 Mr 29 '24

See also Railroads—United States; Waterways—United States; *also* Transportation conference, Washington, 1924

TRANSPORTATION, Electric. See Electric railroads; Electric trucks; Electric vehicles; Electricity in transportation; Railroads—Electrification; Telpherage

TRANSPORTATION, Military

La stratégie des transports et des ravitaillements. M. Peschaud. Génie Civil 86:167-8 F 14 '25

TRANSPORTATION, Rural

Farmer and his common carriers. R. E. Plimpton. il Bus Transportation 4:367-71 Ag '25

TRANSPORTATION act, 1920

Transportation act and railway development. Ry Age 75:1090-1 D 15 '23

Transportation act severely tested. S: O. Dunn. Ry Age 76:1266 My 24 '24

Transportation acts and the electric railways. J: J. Esch. Elec Ry J 65:290-1 F 21 '25

What will Congress do with the Transportation act? R. Bean. Annalist 22:631+ N 12 '23

Recapture clause

Application of Transportation act to electric railways. Ry R 74:878-9 My 17 '24

Attack on the "recapture" provision. Ry Age 75:943-4 N 24 '23

Commission report on section 15a; status of electric railway companies will be determined upon the facts in individual cases. Aera 12:1920-2 Je '24; Same abr. Elec Ry J 63:744-5 My 10 '24

Decision of the Supreme court relative to the recapture clause of the Transportation act. A. R. Marsh. Econ W n s 27:39-40 Ja 12 '24

Electric railway men present case to I.C.C. on section 15a. Elec Ry J 63:511-13 Mr 29 '24

Excess earnings under the recapture clause. Ry R 74:299 F 16 '24

Freight-carrying road held to be under section 15a. Aera 13:1380-3 Mr '25

Hearing on bills to repeal section 15a. Ry Age 76:996-1000, 1039-43, 1089-93, 1143-4, 1265-6 Ap 19-My 10, 24 '24; Comm & Fin Chr 118:1869-71 Ap 19 '24; Ry R 74:734-5 Ap 19 '24

Inter-state commerce commission calls for payment by railroads of excess earnings and interest on same. Comm & Fin Chr 118:1868-9 Ap 19 '24

Recapture clause before U.S. Supreme court. Ry Age 75:913-15 N 17 '23

Recapture clause sustained by Supreme court. Ry Age 76:191-2 Ja 12 '24; Same. Comm & Fin Chr 118:163-4 Ja 12 '24; Same abr. Ry R 74:105-6 Ja 12 '24

Recapture of earnings. B. M. Robinson. Ry Age 79:357-8 N 7 '25

Recapture of railroad earnings; Supreme court sustains constitutionality of important clause of the Transportation act. Index p 3-4 Ja '24

Recovery of excess income. Ry Age 76:924 Ap 12 '24

Retention of section 15a of Transportation act urged. M. W. Harrison. Comm & Fin Chr 118:2142 My 3 '24

TRANSPORTATION and traffic association. See American electric railway transportation and traffic association

TRANSPORTATION conference, Washington, D.C., 1924

National transportation conference, Washington, Jan. 9-11. Ry Age 76:201-4, 237-43 Ja 12-19 '24; Eng N 92:132 Ja 17 '24; Manuf Rec 85:73-4 Ja 17 '24; Ry R 74:154-6 Ja 19 '24

Transportation's town meeting. E. Murphy. Nation's Business 12:60+ Mr '24

TRANSPORTATION institute competition
Final competition for the 17th Paris prize of the Society of Beaux-Arts architects. Am Arch 126:160, pl 161-6 Ag 13 '24

TRANS-SIBERIAN railway
Trans-Siberian railway. Economist 101:656-7 O 24 '25

TRANSVAAL
See also Gold mines and mining—Transvaal; Irrigation—Transvaal; Mines and mineral resources—Transvaal

Commerce
Transvaal trade improving. S. A. Alcock. World's Markets 15:17-18 My '24

TRANSVERTERS. See Converters, Synchronous

TRAVEL
Save-to-travel—the new banking program. A. F. Wright. Bankers M 111:329-33 S '25
Using travel as a business tool. System 47: 623 My '25

Advertising
Europe advertises itself on American luggage by the hotel sticker. W. L. Larned. il Ptr Ink M 11:30-1+ N '25
Foreign travel posters. S. A. Kimber. il Ptd Salesmanship 46:134-7 O '25
How travel bureaus discover the line of least advertising resistance. W. L. Larned. Ptr Ink 126:133-4+ Mr 27 '24
Providing the means to purchase the product; transportation companies form Save to travel association. Ptr Ink 128:207+ S 18 '24
Selling the idea of world travel. il Ptg Art 45:153-9 Ap '25
See also Railroads—Advertising; Steamboat lines—Advertising

TRAVELERS' aid societies
Travelers' aid an important adjunct to railways. S. Ewing. Ry Age 78:1351 My 30 '25

TRAVELING engineers' association
Annual convention, 32d, Chicago, Sept. 16-19. Ry Age 77:505-7, 551-61 S 20-27 '24; Ry R 75:445-6 S 20 '24; Ry Mech Eng 98:587-94 O '24
Annual convention, 33d, Chicago, Sept. 15-18. Ry Age 79:533-4 S 19 '25; Ry R 77:409-13 S 19 '25; Ry Mech Eng 99:611-18 O '25

TRAVELING libraries. See Libraries, Traveling

TRAVELING stores
Grocery on wheels; a self-service, motorized store. il Sci Am 130:318 My '24
Mototeria brings the store to the front door. B. J. Duncan. il Forbes 14:105-7 Ap 26 '24
Stores on wheels bid for recognition as retail outlet. Ptr Ink 127:41-2 Ap 17 '24
Travelling retail stores. L. B. Dudley. il Dun's Int R 43:54-6 Je '24

TRAVERSE tables
Convenient guide for reading traverse tables. J. T. Rutherford. diag Eng & Min J 117:648 Ap 19 '24; Same. Eng & Contr (Ry) 61:1111 My 21 '24

TRAVERSER. See Transfer tables

TRAWLERS. See Fishing boats

TRAYS
Constructing shop trays for specific use. E. L. Holcomb. Mach 31:5 S '24

TREASURY certificates of indebtedness
New offering of treasury certificates of indebtedness—heavily oversubscribed. Comm & Fin Chr 119:1239 S 13 '24

TREASURY savings certificates
American bankers are encouraging shyster promotions by opposing Treasury savings certificates. Ptr Ink 127:10+ Je 26 '24
Is the government thrift campaign at an end? H: Templeton. Am Bankers Assn J 17:164-5+ S '24
Savings certificate sales discontinued. Bradstreet's 52:462 Jl 19 '24
What thrift means to business and government. A. W. Mellon. Ptr Ink 128:10+ Jl 3 '24

TREATIES, Commercial. See United States—Commercial treaties

TREE planting
Angular submerged tree planting to prevent erosion of river banks, lake shores and embankments. il Can Eng 48:171-3 Ja 27 '25; Same. Eng & Contr (G C) 64:637-41 S 16 '25
Forest planting in the intermountain region. C. F. Korstian and F. S. Baker. U S Agric Bul 1264:1-57 '25
Tree planting in city streets. R: J. Hayden. Eng & Contr (R & S) 62:1221-3 D 3 '24

TREE surgery
Practical tree repair. E. Peets. rev. ed. 270p [bibliog. p. 265-70] R. M. McBride & co., New York '25
See also Davey tree expert company

TREE trimming
Safe tree trimming for line clearance. G: D. Blair. il Nat Safety N 11:13-14 F '25
Tree trimming. diags Elec W 84:370 Ag 23 '24

TREES
Do you want a monkey puzzle tree? il Sci Am 132:46 Ja '25
See also Douglas fir; Forest fires; Forests and forestry; Leaves; Lumber; Wood

Diseases and pests
See also Chestnut blight

TREMORS
Vibration recorder for pathological analyses. C. I. Hall. il Am Inst E E J 44:829-32 Ag '25

TRENCHES
Backfilling trenches and restoring street surfaces. S. C. Corson. Munic & Co Eng 67:170-3 O '24; Excerpt. Eng & Contr (R & S) 62:1248-9 D 3 '24
See also Sewerage

TRENCHING machinery
Advance in trench-digging machinery. il Sci Am 131:177 S '24
Barber-Greene model ditcher. il diag Gas Age 53:432 Ap 5 '24
Close contact with job aids design and operation of trench excavators. H. C. McCardell. il Eng N 91:1036-7 D 20 '23
Cost data and experiences with ditching machines. F. H. Shaw. Gas Age 55:797-8 Je 6 '25; Same. Munic & Co Eng 69:17-19 Jl '25; Same cond. Pub Works 56:331 S '25
History of trench excavators. il Eng N 95: 284-6 Ag 13 '25
Labor saving machinery for street construction work. H: Fink. Gas Age 54:391-3 S 20 '24
Machine digs trench for 6.34 cents per foot. A. G. Ford. il Elec W 85:101 Ja 10 '25
Osgood railroad ditcher. il Eng & Contr (Ry) 61:416 F 20 '24
Special backfilling machine used on Hetch Hetchy pipeline. N. A. Eckart. il Eng N 93: 68 Jl 10 '24
Trenching machines are an essential equipment. A. G. Ford. il Gas Age 54:359-62 S 13 '24
Trenching method on New York sewer job. il Eng & Contr (W W) 63:304-5 F 11 '25
Under what conditions does it pay to use excavation machinery for the laying of gas mains? Am Gas Assn Technical sec v 6: 1226-33 '24
Use of small trenching machines. A. G. Ford. il Gas Age 55:565-8 Ap 18 '25
See also Excavating machinery

TRENT amalgam
Plant in Newark makes briquets by Trent process. F. H. Kneeland. il Coal Age 26:715-16 N 20 '24
Toledo plant makes Trent amalgam better known. E. W. Davidson. flow sheet il diag Coal Age 27:139-42 Ja 22 '25

TRENT river
Trent navigation improvement. il (supp) diag map Engineer 138:563 N 14 '24

TRENTON trust company
New home of Trenton trust company opened. il Bankers M 111:455-9 S '25

TREPANNING
Trepanning and boring tools. diags Engineering 119:242-3 F 20 '25

TRESTLES
Building a highway through four miles of swamp. L. F. James. il Eng & Contr (R & S) 60:963-6 N 7 '23
Building a long retarding-conveyor gallery at Brotherhood mine, Coal River collieries. W. J. Denman. il diags Coal Age 25:235-6 F 14 '24
Deck on Lucin cutoff trestle renewed under traffic. il diags Eng N 92:61-2 Ja 10 '24
Detour trestle designed for use over again. P. G. Lang, jr. il Eng & Contr (Ry) 62:659-61 S 17 '24
Four-mile causeway carries state road over swamp. J. Pinnell and J. L. Parker. il map Eng N 93:48-51 Jl 10 '24
Frame and pile trestles in electric railway practice. diags plans Eng & Contr (Ry) 60: 1057-8 N 21 '23
High timber trestle. il Ry R 73:729 N 17 '23
Locomotive cranes set two completely assembled plate girder spans. il Eng N 92:413 Mr 6 '24
Method of repairing and renewing ballast deck trestles. Eng & Contr (Ry) 60:1095-7 N 21 '23
Railway trestle practice in Queensland. il Eng N 94:1065 Je 25 '25
Renewing ballasted decks on timber trestles. Eng N 92:166-7 Ja 24 '24
Tear down and rebuild 102-ft. trestle in less than two days. Ry R 75:411 S 13 '24
See also Bridges

TRESTLES, Concrete
Concrete trestles on M-K-T. il diag Ry Age 78:1226 My 16 '25
Wooden trestles eliminated on Lake Shore electric. A. V. Brown. il Elec Ry J 66:93-4 Jl 18 '25

TREVELYAN rocker
Trevelyan's rocker. S. Bhargava and R. N. Ghosh. diag Phys R 22:517-21 N '23

TRIACETOXYBENZALDEHYDE
Synthesis of pyrylium salts of anthocyanidin type; the preparation of the anthocyanidins with the aid of 2:4:6-triacetoxybenzaldehyde. D: D. Pratt and R. Robinson. Chem Soc J 127:1182-90 My '25

TRIAL market. See Market testing

TRIAMINES
Solvent action of trialkyl trimethylene-triamines on uric acid. J: Graymore. Chem Soc J 125:2283-5 N '24

TRIANGLE
Handy triangle for map draftsmen. diag Eng & Min J 117:971 Je 14 '24
Some easy dodges in mathematics. L. C. Jordan. Eng & Contr (Bldgs) 60:1109-10 N 28 '23

TRIANGULATION
Automatic signal lamp devised for triangulation surveys. D. L. Parkhurst. il Eng N 93: 109 Jl 17 '24
Precise triangulation and level nets of the United States. W: Bowie. maps Eng N 92: 330 F 21 '24

TRIARYLMETHYL acetates
Preparation of triarylmethyl acetates. C. S. Schoepfle. Am Chem Soc J 47:1469-71 My '25

TRIAZOLE
Hydroxamic acids and derivatives of 1:2:4-triazole. C. Gastaldi. Chem Soc J 124 pt 1: 1236-8 D '23
2:5-iminodihydro-1:2:3-triazole. H. W. Carnelley and P. K. Dutt. Chem Soc J 125:2476-81 D '24

TRIBROMOQUINALDINE
ω-trichloro- and ω-tribromo-quinaldine and the preparation of quinaldinic acid. D. L. Hammick. Chem Soc J 123:2882-4 N '23

TRIBUNE tower. See Chicago Tribune building

TRICARBON series
Chemistry of the three-carbon system. G. A. R. Kon and R. P. Linstead. Chem Soc J 127: 616-24, 815-21 Mr-Ap '25; Abstract. Soc Chem Ind J (Chem & Ind) 44:80, 168-9 Ja 23, F 13 '25
Experiments on the synthesis of substances possessing the Ladenburg formula; associated three-carbon ring systems. E. H. Farmer. Chem Soc J 123:3332-41 D '23
Ring-chain tautomerism; three-carbon ring-chain tautomerism in a bridged ring system. J: W: Baker. Chem Soc J 127:985-90 My '25

TRICHLOROETHYLENE
Spontaneous combustion when working with dichlor- and trichlorethylene. Chem Age 32: 264 Je '24

TRICHLOROQUINALDINE
ω-trichloro- and ω-tribromo-quinaldine and the preparation of quinaldinic acid. D. L. Hammick. Chem Soc J 123:2882-4 N '23

TRICONODONTS
Mesozoic mammalia; American triconodonts. G: G. Simpson. il Am J Sci 5th ser 10:145-65, 334-58 [bibliog. p. 358] Ag, O '25

TRICOT. See Knit goods

TRICYANOMELAMINE
Some ammono-carbonic acids and their reactions in liquid ammonia. W: L. Burdick. Am Chem Soc J 47:1485-90 Je '25

TRIETHYLENE trisulphide
Rây's supposed triethylene trisulphide. G: M. Bennett and W: A. Berry. Chem Soc J 127:910-11 Ap '25

TRIETHYLPHOSPHINE
Reactions of triethylphosphine. J: N. Collie. Chem Soc J 127:964-5 My '25

TRIGONOMETRY
Natural tangents, 0° to 70°. E. Gifford. 420p Van Nostrand '24
Plane and spherical trigonometry. C. I. Palmer and C: W. Leigh. 3d ed., rev. and enl. 221p McGraw-Hill '25
Problems and questions on trigonometry and logarithms. F. T. Jones. 3d ed., enl. 72p University supply & book co., Cleveland '24
Sines and tangents for the practical man. Power 62:100 Jl 21 '25
Solving trigonometrical problems with a protractor. C: Kugler. diags Mach 31:571 Mr '25

TRIGONOMETRY, Plane
Plane trigonometry. B. H. Crenshaw and H. M. Derr. 157p Ginn '23
Plane trigonometry. P. R. Rider and A. Davis. 292p Van Nostrand '23
Plane trigonometry and logarithms. B. H. Brown. 66p Houghton '25

TRIHEXOSANE
Trihexosane; abstract. A. Pictet and R. Salzmann. Soc Dyers & Col J 41:189 My '25

TRIHYDROXY-METHYLANTHRAQUINONES
Trihydroxy-methylanthraquinones; synthesis of emodin. R. A. Jacobson and R. Adams. Am Chem Soc J 46:1312-16 My '24
Trihydroxy-methylanthraquinones; synthesis of morindone. R. A. Jacobson and R. Adams. Am Chem Soc J 47:283-90 Ja '25

TRILOBITES
Antennae in olenellus getzi, n. sp. C. O. Dunbar. il Am J Sci 5th ser 9:303-8 Ap '25

TRIMETHYLAMINE
Action of acid chlorides upon trimethylamine. L. W. Jones and H. F. Whalen. Am Chem Soc J 47:1343-52 My '25
Odorous constituents of the cotton plant; emanation of ammonia and trimethylamine from the living plant. F: B. Power and V: K. Chesnut. Am Chem Soc J 47:1770-4 Je '25

TRIMETHYLAMINE oxide
Strength of trimethylamine oxide and trimethyl alkoxyl ammonium hydroxides as bases; the structure of ammonium compounds. T. D. Stewart and S. Maeser. Am Chem Soc J 46:2583-90 N '24

TRIMETHYL arabonolactones
Constitutional studies in the monocarboxylic acids derived from sugars; the isomeric tetramethyl galactonolactones and trimethyl arabonolactones. J: Pryde, E. L. Hirst and R. W: Humphreys. Chem Soc J 127:348-57 F '25

TRIMETHYL-aurin
$3^1,3^2,3^3$-trimethyl-aurin (ortho-cresaurin) and $3^1,3^2,3^3$-trimethyl-N^1,N^2,N^3-triphenyl-para-rosaniline (triphenyl-ros-ortho-toluidine). M. Gomberg and L. C. Anderson. Am Chem Soc J 47:2022-33 Jl '25

TRIMETHYLCYCLOHEXAN 3-one-1-carboxylic acid
Formation of *d*-2:2:4-trimethyl*cyclo*hexan-3-one-1-carboxylic acid from *d*-camphorquinone. C: S. Gibson and J: L. Simonsen. Chem Soc J 127:1294-1303 Je '25

TRIMETHYLETHYLENE
Addition of nitrogen trichloride to unsaturated hydrocarbons. G. H. Coleman and H. P. Howells. Am Chem Soc J 45:3084-9 D '23

TRIMETHYLSTIBINE
Researches on residual affinity and co-ordination; interactions of trimethylstibine and platinic and palladous chlorides. G. T. Morgan and V: E. Yarsley. diag Chem Soc J 127:184-90 Ja '25

TRIMETHYLTIN
Chemistry of the trimethyltin group. C: A. Kraus and W: V. Sessions. Am Chem Soc J 47:2361-8 S '25
Compounds formed between trimethyltin hydroxide and trimethyltin halides. C: A. Kraus and T. Harada. Am Chem Soc J 47: 2416-19 S '25

TRIMETHYL tin chloride
Studies relating to metallo-organic compounds; the conductance of trimethyl stannyl chloride in mixed solvents. C: A. Kraus and W: N. Greer. Am Chem Soc J 45:2946-54 D '23

TRIMMING tools
Waterbury Farrel bolt head trimming machine. il Am Mach 61:711 O 30 '24; Mach 31: 230-2 N '24; Iron Age 114:1133 O 30 '24

TRINIDAD
Trinidad asphalt lake model attracts American visitors. il Good Roads 67:81-2 S '24

See also Geology—Trinidad; Petroleum—Trinidad

TRINITROTOLUENE
Heats of fusion of trinitrotoluene, tetryl and picric acid. W: H. Rinkenbach and R. E. Hall. Am Chem Soc J 46:2637-9 D '24
Reactions of the unsymmetrical trinitrotoluenes. O. L. Brady, S. W. Hewetson and L. Klein. Chem Soc J 125:2400-4 N '24
Shoveling snow with T.N.T. Sci Am 132:259 Ap '25
Specific heat and thermal diffusivities of certain explosives. A. M. Prentiss. il diags (Reprint & Circ. Ser. 52) 44p '24 25c National research council, 1701 Massachusetts av, Washington, D.C.
Specific heats of trinitrotoluene, tetryl, picric acid and their molecular complexes. C. A. Taylor and W: H. Rinkenbach. Am Chem Soc J 46:1504-10 Je '24

See also Cordeau-Bickford

TRINITROXYLENE
Specific heat and thermal diffusivities of certain explosives. A. M. Prentiss. il diags (Reprint & Circ. Ser. 52) 44p '24 25c National research council, 1701 Massachusetts av, Washington, D.C.

TRIODES. See Vacuum tubes

TRIPHENYLBISMUTHINE
Organo-derivatives of bismuth; iodo- and nitro-derivatives of triphenylbismuthine. J: F: Wilkinson and F: Challenger. Chem Soc J 125:854-64 Ap '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:11 Ja 4 '24

TRIPHENYLCARBINOL
Preparation of triphenylmethane and the action of heat on the ethers and esters derived from triphenyl carbinol. J. F. Norris and R. C. Young. Am Chem Soc J 46:2580-3 N '24
Reaction between metallic sodium and aromatic aldehydes, ketones and esters; aldehydes. F. F. Blicke. Am Chem Soc J 46: 2560-71 N '24

TRIPHENYLFLUOROMETHANE
Triphenylfluoromethane. F. F. Blicke. Am Chem Soc J 46:1515-18 Je '24

TRIPHENYLGUANIDINE
Manufacture and testing for accelerator action of the di- and tri-arylguanidines. W. J. S. Naunton. Soc Chem Ind J 44:243-7 My 22 '25

TRIPHENYL-ISOXAZOLINE oxide
Isoxazoline oxides; triphenyl-isoxazoline oxide. E. P. Kohler and G. R. Barrett. Am Chem Soc J 46:2105-13 S '24

TRIPHENYLMETHANE
Effect of sulfur on the color of triphenylmethane dyes. H. S. Holt and E. E. Reid. Am Chem Soc J 46:2329-33 O '24
New dyestuffs of the triphenylmethane series. Color Tr J 15:136-7 N '24
Preparation of dyestuffs from ortho-xylylaldehyde. A. E. Craver. Color Tr J 14:12-14 Ja '24
Preparation of triphenylmethane and the action of heat on the ethers and esters derived from triphenyl carbinol. J. F. Norris and R. C. Young. Am Chem Soc J 46: 2580-3 N '24
Spectrophotometric identification of dyes; basic violets of the triphenylmethane group. W. C. Holmes. Ind & Eng Chem 17:918-19 S '25
Untersuchungen über triphenylmethanfarbstoffe, hydrazine und indole. E. Fischer. 880p J. Springer, Berlin '24

TRIPHENYLMETHANE compounds
New dyestuff intermediate of American invention; triphenylmethane compound. Color Tr J 16:70-1 Mr '25

TRIPHENYLMETHYL
Electrochemical relation of free radicals to halochromic salts. J. B. Conant, L. F. Small and B. S. Taylor. Am Chem Soc J 47:1959-74 Jl '25
Reactions of compounds of triphenylmethyl and triphenylsilicyl in liquid ammonia. C: A. Kraus and R. Rosen. Am Chem Soc J 47:2739-48 N '25
Triphenylmethyl; 2,5-, 2,4-, and 3,4-dimethoxy-triphenylmethyls. M. Gomberg and G. C. Forrester. Am Chem Soc J 47:2373-91 S '25

TRIPHENYLMETHYLPHOSPHINIC acid
Formation of triphenylmethylphosphinic acid from triphenylmethoxyphosphorus dichloride. D: R. Boyd and F: J. Smith. Chem Soc J 125:1477-80 Jl '24

TRIPHENYLS
Action of inorganic halides on organometallic compounds. F: Challenger and F. Pritchard. Chem Soc J 125:864-75 Ap '24; Abstract. Soc Chem Ind J (Chem & Ind) 43:11 Ja 4 '24

TRIPHENYLSILICYL
Reactions of compounds of triphenylmethyl and triphenysilicyl in liquid ammonia. C: A. Kraus and R. Rosen. Am Chem Soc J 47:2739-48 N '25

TRIPLE bonds
Tautomerism of dyads; the effect of the triple linking on the reactivity of neighbouring atoms. E. H. Ingold. Chem Soc J 127:1199-1206 My '25

TRIPLE salts. See Salts, Triple

TRIPOLI
Tripoli; its properties, occurrence, history, preparation and uses. P. B. Butler and G. V. B. Levings. il Metal Ind 22:10-14 Ja '24

TRIPP, Guy E.
How Tripp learned to think through to a finish. O. D. Foster. por Forbes 14:219-21+ My 24 '24

TRKAL'S variation principle
Extension of Trkal's variation principle. J. H. Van Vleck. Phys R 22:552-8 D '23

TROLLEY bases. See Electric railroads—Trolley bases

TROLLEY buses. See Trackless trolley

TROLLEY cars. See Electric railroads; Street cars

TROLLEY ears
Close fitting trolley ears reduce line maintenance cost. G. H. McKelway. Elec Ry J 62: 910 N 24 '23

TROLLEY harps. See Electric railroads—Trolley harps

TROLLEY poles
Straightening trolley poles on cars. diag Elec Ry J 66:97 Jl 18 '25

TROLLEY wheels
Simple attachment insures effective method of lubricating trolley wheel. H. Coté. diag Coal Age 25:148 Ja 24 '24

See also Electric railroads—Trolley wheels

TROLLEY wire
A.B.C. of the electric car. J: S. Dean. diags Aera 12:866-8 D '23
Double trolley wire on single track economical. J. H. Bowen. il Elec Ry J 66:237 Ag 15 '25
Keeping trolley wire fit. H. W. Casey. il diag Aera 14:271-5 S '25
Proposed specifications for trolley wire. Coal Age 25:366 Mr 6 '24
Systematic records reduce line failures. J. F. Neild. Elec Ry J 65:763-5 My 16 '25
Using trolley wire for reinforcing. G. H. McKelway. Concrete 24:151 Ap '24

See also Electric railroads—Wiring

Lubrication

Overcoming current-collection troubles on steel wire; greasing the wire. H. M. Robinson. il Elec Ry J 63:767-9 My 17 '24

Manufacture

Trolley wire in the making. J. Williams. il Am Mach 61:21-2 Jl 3 '24

Testing

Overhead catenary material tested. il Elec Ry J 65:810-11 My 23 '25

TROPHIES, Military
Grisly war trophies. A. B. Skinner. il Sci Am 133:172-3 S '25

TROPIC acid
Reactions of displacement in the tropic acid group. A. McKenzie and R. C. Strathern. Chem Soc J 127:82-8 Ja '25

TROPICS

See also Engineering—Tropics; Insurance, Life—Tropics

Diseases and hygiene

Modern medicine and the tropics. Sci Am 131: 94 Ag '24
Recent progress in the field of tropical health. F: L. Hoffman. Econ W n s 30:635-6 O 31 '25; Same. Spectator 115:31-2 O 15 '25

TROWBRIDGE, S. Breck Parkman, 1862-1925
Sketch. por Am Arch 127:113 F 11 '25; Arch Rec 57:368-9 Ap '25

TRUCKING

Accounting

Accounting for a taxi-cab, transfer and storage business. C: F. Schlatter. J Account 39:367-79 My '25

TRUCKS
Abuse of cement floors by metal truck wheels. Management & Adm 9:420 My '25
Fitting the handling into the operations; 11 lift trucks and 2,000 skids save $37,990.68 per year. il Factory 35:486+ S '25
Floor trucks and hand trucks. il Factory 35: 240-1 Ag '25
How lift trucks aid in safe handling of material; abstracts. A. L. Lewis. il Nat Safety N 9:21-2 Ap '24; Iron Tr R 75:1240-1 My 8 '24
Lift trucks and tiering machines. il Factory 35:232-3 Ag '25
Multiplied manpower and simplified handling; the hand lift truck and skid system. M: W. Potts. il Ind Management 68:221-8 O '24
Safe use of hand and power trucks. G: J. Schirch. il Nat Safety N 10:27-8+ O '24
Truck casters. Textile World 65:1603-4 Mr 1 '24
Trucks and tractors in the rubber factory. il India Rubber W 70:573-5 Je '24
Trucks that protect their contents. il Factory 34:926 Je '25
Typical jobs where material handling devices pay for themselves. F. E. Gooding. il diags Ind Eng 83:65-70+ F '25
Why the truck is red. C. W. Geiger and D. Sullivan. il Factory 34:437 Mr '25

See also Car trucks; Electric trucks; Electric trucks, Industrial; Motor trucks; Motor trucks, Industrial

TRUDEAU laboratory
Laboratory building, Trudeau, N. Y.; views and plans. Am Arch 127:pl 34-5 F 11 '25

TRUFFLES
Truffles and truffle hunters. W: A. Murrill. il Sci Am 130:332+ My '24

TRUNKS
Wardrobe trunk insures travel comfort. il Am Exporter 94:43+ Ap '24

Advertising

Must department store copy always feature bargains? Ptr Ink 132:10+ Jl 2 '25

TRUSCON steel company, Youngstown, Ohio
Twenty years without a fatal. A. J. Lynch. il Nat Safety N 10:51-2 O '24
Using simplification to increase our sales. J. Kahn. il System 47:151-6+ F '25

TRUSSES
Bad design of shore-span steel trusses. J. Feld. il Eng N 94:529-30 Mr 26 '25
Design of a truss with parallel chords. C: L. Shedd. Arch Forum 41:301-6 D '24
Designing for strength in eccentric heel joints for trusses. il Eng N 92:105 Ja 17 '24
English solution of the Fink truss problem. C: H. Lobban. diags Eng & Contr (Bldgs) 61:479-81 F 27 '24
Fink roof truss and its problem. R. Fleming. Can Eng 47:309-12 S 9 '24; Same. Eng & Contr (Bldgs) 63:417-22 F 25 '25
Fink truss. C. R. McAnlis. diags Can Eng 48:349 Mr 24 '25; Discussion. J. F. Seiler. 48:639 Je 30 '25
Large timber roof trusses in Ogden union station. il diags Eng N 94:938-9 Je 4 '25
Light steel trusses for fireproof floor construction. il Eng N 93:201 Jl 31 '24
Splices for wood in tension. M. A. Howe. Bldg Age 46:86+ O '24
Truss maintains equilibrium in load on footings. C: Carswell. diags Eng N 91:1061-2 D 27 '23
Unusual supports for long span roof trusses on the "new garden," New York. il diag Bldg Age 47:95-8 Ag '25

See also Bridges; Building; Girders; Roofs; Strains and stresses

TRUST companies
A.B.A. trust company division meeting. Bankers M 111:539-44 O '25; Am Bankers Assn J 18:239-40+ O '25
Banks and trust companies; quotations. Published in monthly Bank and quotation section of Commercial and financial chronicle
Co-operation among trust companies. L. H. Roseberry. Bankers M 108:217-18 F '24
Extending the service of expert money management. Am Bankers Assn J 17:559+ Mr '25
Five fundamentals in trust company business. Am Bankers Assn J 16:575-7+ Mr '24
Functions of a trust company. L. H. Roseberry. Am Bankers Assn J 17:323-4+ N '24

TRUST companies—*Continued*
Greatest father in the world—the development of the trust. T: C. Hennings. Comm & Fin Chr 119:159-61 sec 2 O 18 '24; Same abr. Am Bankers Assn J 17:237-8 O '24
Income yield from property managed by trust companies. L. H. Roseberry. Am Bankers Assn J 17:30-1 Jl '24
Investing for the modest trust. D. W. Holgate. Am Bankers Assn J 18:85-6 Ag '25
Modern trust company. F. B. Kirkbride, J. E. Sterrett and H: P. Willis. 6th ed. rev. and enl. 559p [bibliog. p. 519-35] Macmillan '25
Trust companies and trusts. G. G. Munn. Bankers M 108:115-23 Ja '24
Trust companies as trustees for debenture holders. Economist 100:487-8 Mr 14 '25
Trust companies conference. Bankers M 110: 471-4 Mr '25
Trust companies in New York and elsewhere; annual returns. Comm & Fin Chr 118:973-89, 1068-71; 120:876-9, 906-24 Mr 1-8 '24, F 21 '25
Trust company visions realized. U. H. McCarter. Am Bankers Assn J 18:241-2 O '25; Same. Comm & Fin Chr 121:156-7 sec 2 O 17 '25
Visualizing the functions of a trust company. Bankers M 110:1042-5 Je '25
Weekly returns of New York city clearing house banks and trust companies. Published in weekly numbers of Commercial and financial chronicle
Wills and trusts with trust companies as executors. J. W. White. Spectator 115:23+ O 8 '25

See also Banks and banking; Insurance trusts; Investment trust companies; *also* American bankers' association—Trust company division; Chicago trust company

Accounting

Fundamentals of trust accounting. M. E. Reeve. Am Bankers Assn J 17:495+ F '25

Advertising

Complete campaign for new trust business. T. T. Weldon. il Bankers M 110:267-71, 663-8; 111:31-4, 571-5, 905-10 F, Ap, Jl, O, D '25
Shall legitimate advertising be made illegal by law? the effort of the Boston bar association to prohibit trust company advertising. J. H. Collins. Ptr Ink 130:81-2+ Ja 1 '25

Service

To-day and to-morrow. W: R. Hervey. Comm & Fin Chr 119:161-5 sec 2 O 18 '24; Same abr Bankers M 109:789+ O 31 '24; Same cond. Am Bankers Assn J 17:230-1+ O '24

TRUSTS, Industrial
Are we trust shy? Europe isn't. A. P. Dennis. Nation's Business 13:29-31 Je '25
Buying trust vs. selling trust. F: Simpich. il Nation's Business 12:25-8 My '24
Les cartels, leur organisation, leur importance en Allemagne. P. Maquenne. Chimie & Ind 14:477-80 S '25
Der gegenwärtige stand des verbandswesens in der deutschen eisen- und stahlindustrie. B. Bruhn. Stahl & Eisen 45:177-80 F 5 '25
Indictments against 269 manufacturers of furniture charging violation of Sherman anti-trust act. Comm & Fin Chr 120:3021-2 Je 13 '25
Integration of industry. Index p 7-9 Ap '25
Die neue kartellverordnung. E: Buchmann. Stahl & Eisen 43:1498-1501 D 6 '23
Organisationsfragen der rheinisch-westfälischen industrie; umorganisierung in horizontaler und vertikaler richtung. A. Heinrichsbauer. Stahl & Eisen 44:96-100 Ja 24 '24
Secretary Hoover urges amendment of Webb-Pomerene act for control of foreign monopolies in imported raw materials. Comm & Fin Chr 118:1345 Mr 22 '24; Same. Am Ind 24:18-19 My '24
Trust movement in Great Britain; some leading examples. Economist 98:9-10, 47-9, 134-5, 240-2 Ja 5-12, 26, F 9 '24
Trust position in Germany. Economist 98: 867-8 Ap 26 '24
Trusts and anti-trust legislation in the United States. Economist 98:620-1, 676-7 Mr 22-29 '24
What international big business is thinking about. E: A. Bradford. Annalist 25:36 Ja 5 '25
Youth and the trust busters. E. Dakin. Comm & Fin 14:503-5 Mr 18 '25

See also Competition; Corporations; Government ownership; Interstate commerce; Interstate commerce commission; Restraint of trade; Sherman anti-trust law, 1890; Tariff; Trade associations; *also* Cement manufacturers' protective association; Reading company; Sanitary potters' association; Sisal sales corporation

Vertical trusts

Don't block the way to better distribution. E: A. Filene. Ptr Ink M 9:19-20+ D '24
Vertical trust. D. T. Farnham. il maps Ind Management 67:257-63 My '24

TRUSTS and trustees
Cases on the law of trusts. G: I. Wooley. 586p George Ingalls Wooley, 32 Court st., Brooklyn '23
Investment of trust funds. T: H. Owen. Am Bankers Assn J 16:612-13 Mr '24
Voluntary or living trusts. F. N. Bancroft. Am Bankers Assn J 16:600-1 Mr '24

See also Banks and banking—Trust powers; Business trusts; Community trusts; Escrows; Insurance trusts; Investment trust companies; Trust companies

Revocable trusts

Tax revision advocated by Thomas B. Paton and other representatives of American bankers association. Comm & Fin Chr 121: 2111-12 O 31 '25

TRYPANOCIDES
Arsonophenyl-cinchoninic acid and derivatives. K. Ogden and R. Adams. Am Chem Soc 47:826-30 Mr '25

See also Antimonyl tartrates

TRYPANOSOMES
Organic compounds of chemotherapeutic value; Bayer 205. B. Heymann. Chem Age 32: 367-70 S '24

TRYPSIN
Action of trypsin upon diverse leathers. A. W. Thomas and F. L. Seymour-Jones. bibliog Ind & Eng Chem 16:157-9 F '24

TRYPTOPHAN
Influence of tryptophan and other amino acids upon the stability and enzymic activity of pancreatic amylase. H. C. Sherman. M. L. Caldwell and N. M. Naylor. Am Chem Soc J 47:1702-9 Je '25
Proline and tryptophan as factors influencing the accuracy of Van Slyke's method for the determination of nitrogen distribution in proteins. R. A. Gortner and W. M. Sandstrom. Am Chem Soc J 47:1663-71 Je '25
Relationship of thyroxin to tryptophan. C. S. Hicks. Chem Soc J 127:771-6 Ap '25

TSETSE fly
A fly versus a civilization. il map Sci Am 132:402+ Je '25

TUADS. See Tetramethyl thiuram disulfide

TUBE mills
Balancing feature of mills. J: Herman. diags Eng & Min J 118:143 Jl 26 '24; Discussion. P. C. Forrester. 118:501-2 S 27 '24
Ball-and tube-mill liners. W: T. W. Miller. diags Eng & Min J 118:613-17 O 18 '24
Design and operation of ball and pebble mills. E: W. Lawler. Chem & Met Eng 30:517-18 Mr 31 '24
Domestic tube-mill lining successfully meets foreign competition. W. M. Weigel. il Eng & Min J 118:925-8 D 13 '24
Gyratory ball action. W. A. Linfesty. il Eng & Min J 118:503 S 27 '24
Peripheral-discharge cylindrical mills. A. W. Allen. il diags Eng & Min J 117:325-8 F 23 '24

TUBE mills—*Continued*
Power consumption in single- and multiple-compartment rod mills. diags Eng & Min J 119:171-2, 814 Ja 24, My 16 '25
Rod mills not an insurance against unnecessary sliming. W. H. Coghill and C. O. Anderson. Eng & Min J 117:1006 Je 21 '24
Rubber linings for laboratory pebble mills. E. W. Lawler. il India Rubber W 70:511-12 My '24
Rubber tube mill linings tried on the Rand. Eng & Min J 118:490 S 27 '24

See also Ball mills; Crushing machinery; Gold milling

TUBERCULINIC acid
Researches on pyrimidines; the discovery of 5-methyl-cytosine in tuberculinic acid, the nucleic acid of the tubercle bacillus. T. B. Johnson and R. D. Coghill. Am Chem Soc J 47:2838-44 N '25

TUBERCULOSIS
Calcium and tuberculosis; a thesis in hygiene comprehending the influence of an inspired dust on a specific infection of the lungs. M. S. Iszard. J Ind Hygiene 7:505-30 [bibliog p. 529-30] N '25
Campaign against tuberculosis in Germany. L. Teleky. Nation's Health 6:175-6+ Mr '24
Causative relationships of industry to tuberculosis. I. Galdston. Nation's Health 6:687-9 O '24
Decline in tuberculosis death rate. L: I. Dublin. Monthly Labor R 18:150-4 Ja '24
New vaccination prophylaxis in tuberculosis. A. Boquet. Nation's Health 7:89-90 F '25
Placement work for the tuberculous. A. C. Klein. il Nation's Health 7:319-21+ My '25
Transactions of the ninth annual conference of the National association for the prevention of tuberculosis, 1923; abstracts. J Ind Hygiene 6:sup8-10 My '24
Tuberculosis among foreign groups in New York. G. J. Drolet. Nation's Health 6:241-2 Ap '24
Tuberculosis death rate among industrial populations of American cities and Canadian provinces; abstracts. Econ W n s 27:783 My 31 '24; Monthly Labor R 19:193-4 Jl '24
Tuberculosis record for 1922. F: L. Hoffman. Spectator 112:19-20 F 21 '24

TUBERCULOSIS, Hospitals and sanatoriums for
Laboratory building, Trudeau, N.Y.; views and plans. Am Arch 127:pl 34-5 F 11 '25
Outdoor life at Camp Darden for tubercular children. il Nation's Health 6:717-18 O '24
Scheme for the solution of New Jersey's tuberculosis problem. il Nation's Health 6: 267-9 Ap '24

TUBERCULOSIS in animals
Stamping out tuberculosis in livestock. J. A. Kiernan. il map Nation's Health 7:80-2+ F '25

TUBES
Bending stresses in thin-walled tubes. J: Case. Philos Mag 6th ser 47:197-208 Ja '24
Collapse of short thin tubes by external pressure. G. Cook. diag Philos Mag 6th ser 50: 844-8 O '25
Novel type of tube suitable for automotive use. diag Automotive Ind 50:961 My 1 '24
Secondary failure of thin tubes of circular section subjected to terminal couples. M. S. Ahmed. diags Philos Mag 6th ser 47: 319-23 F '24
Tube bending fixtures. C: O. Herb. il Mach 32:99-101 O '25

See also Chemical apparatus; Gas tubing; Metals—Season cracking; Pipes

Failures

Causes of failure in the tubes of steam distillation apparatus. Neumann and Zollner. Engineer 139:sup61-2 Ap 24 '25

Manufacture

Drawing small tubes of precious metals. J. Williams. il Am Mach 61:307-8 Ag 21 '24
Straightening and turning thin-walled tubes. A. Silvester. diags Am Mach 62:173 Ja 22 '25
Tubing made from strip stock. C: O. Herb. il diag Mach 31:602-5 Ap '25

TUBES (containers)

Manufacture

How collapsible tubes are made from soft metal. E. Sheldon. il diag Am Mach 62:983-7 Je 25 '25

TUBES, Brass
Cutting brass tubing. G: Edgar. il Am Mach 59:923 D 20 '23
Development of a method for measurement of internal stress in brass tubing. R. J. Anderson and E. G. Fahlman. il diags U S Bur Stand Tech Pa 257:229-41 '24; Same. Brass W 20:303-8 S '24
New lock-joint brass tubes. il Metal Ind 22:372 S '24
Release of internal stress in brass tubing. R. J. Anderson and E. G. Fahlman. il U S Bur Stand Tech Pa 285:235-65 '25

Failures

Investigation of a fatigue failure of brass tubes in a feed-water heater, with a consideration of the nature of fatigue. W. E. W. Millington and F. C. Thompson. diags Engineering 117:353-4; Discussion. 344-5 Mr 14 '24; Abstract. Engineer 137:290-1 Mr 14 '24

Manufacture

Annealing of brass tubing in the electric furnace. R. M. Keeney. il Am Electrochem Soc Trans v 46 (preprint 9):137-47 O '24; Same. Iron Tr R 75:1370-2 N 20 '24
Baltimore industrial plant turning out 3,000,000 pounds monthly of brass and copper tubing. il Manuf Rec 88:104-5 N 5 '25

TUBES, Bronze
Molding of small flanged tubes. R. E. Search. diags Metal Ind 21:435-7 N '23

TUBES, Steel

Manufacture

Closing tube ends by spinning and welding. J. Colombet. diags Mach 31:107 O '24; Same. Mech Eng 47:50-1 Ja '25
Herstellung nahtloser rohre. M. Döderlein. il diags Stahl & Eisen 45:1632-9 S 24 '25
Making seamless steel tubes by improved processes. E. F. Ross. il diags plan Iron Tr R 77:1079-83+ O 29 '25
Making solid wall tubes of strip steel. il Iron Age 113:1293-4 My 1 '24
Making steel pipe and seamless tubes. il diags Sanitary & Heat Eng 102:155-6+ S 5 '24
Making steel tubes for roller bearings. F. L. Prentiss. flow sheet il diag plan Iron Age 114:1463-9 D 4 '24
Manufacture of seamless steel tubing. W. C. Chancellor. il diags Eng Soc W Pa 40:217-48 Jl '24; Same abr. Ry R 75:545-51 O 11 '24
Manufacturing seamless steel tubing. E. R. Kelso. il diags Iron Age 113:57-60, 159-62 Ja 3-10 '24
Story of steel. Sci Am 132:246-7 Ap '25

Prices

Prices of seamless mechanical tubing; new list on the foot basis issued by the National tube co. Iron Age 116:162-3 Jl 16 '25

Testing

Strength of steel tubing under combined column and transverse loading, including tests of columns and beams. T. W. Greene. il U S Bur Stand Tech Pa 258:243-76 '24

TUBES, Varnished fabric
Directions for the study of varnish-paper and varnish-fabric boards and tubes. diags Inst E E J 62:160-72 F '24

TUBING machine
Continuous production of inner tubes by tubing machine. plan India Rubber W 71:272-3 F '25

TUCKER, Carll
House of Carll Tucker, Mt Kisco, N.Y. il diags Arch Forum 42:9-16, pl 1-6 Ja '25

TUG boats. See Towboats

TULLE
Production of artificial lace and tulle from cellulose solutions. diag Color Tr J 14:164-5 My '24

TULSA, Oklahoma

Water supply

$7,000,000 Tulsa water project nears completion. W. R. Holway. il Manuf Rec 86:96-8 Jl 3 '24
Spavinaw water supply project. W. R. Holway. il map Pub Works 56:1-5 Ja '25
Spavinaw water supply project at Tulsa, Okla. A. S. Holway. il Eng & Contr (W W) 62: 1261-7 D 10 '24
Spavinaw water supply project for Tulsa, Oklahoma. il map Eng N 92:816-18 My 8 '24
Verdigris River tunnel. W. R. Holway. il diag Pub Works 56:126-8 Ap '25

TUMBLING
Tumbling and burnishing. B. G. Krause. il Mach 30:501-2 Mr '24; Same abr. Brass W 20:181-2 My '24

TUMBLING barrels
Handy tumbling barrels for small work. W: Denton. il Am Mach 62:589 Ap 9 '25

TUNG oil
Agriculture and the paint and varnish industry; work done with tung-oil nuts, flaxseed, and perilla. H: A. Gardner. il Oil Paint & Drug Rep 107:20+ F 9 '25
America to produce its own tung oil. Chem & Met Eng 30:206 F 4 '24
Catalytic effect of lead and manganese on the drying of China wood oil. G: E. Ludwig. Ind & Eng Chem 17:1160-1 N '25
Chemical and material markets in 1923. Chem & Met Eng 30:119 Ja 21 '24
China tung oil industry. J. Arnold. Oil Paint & Drug Rep 108:87 N 5 '25
China wood oil. M. Toch. Oil Paint & Drug Rep 107:22 Ap 20 '25
China wood oil adulteration. M. Toch. Oil Paint & Drug Rep 106:20 N 17 '24
China wood oil imports decline in 1924. Chem & Met Eng 32:143 Ja 19 '25
China wood oil is used as base for baked color enamel. W. L. Carver. Automotive Ind 50:324-6 F 14 '24
Chinese wood oil. R. C. Mackay. Can Chem & Met 8:289-91 D '24
Chinese wood oil. F. H. Rhodes and T. T. Ling. map Ind & Eng Chem 16:1051-5 O '24
Oxidation of Chinese wood oil. F. H. Rhodes and T. T. Ling. Ind & Eng Chem 17: 508-12 My '25
Report of sub-committee III on testing of paint vehicles. Am Soc T M Pro 24 pt 1: 430-1 '24
Report of tung oil committee of N.V.M.A. Oil Paint & Drug Rep 108:86-7 N 5 '25
Report on China wood oil for 1923. Oil Paint & Drug Rep 106:52-3 O 29 '24
Sampling China wood oil. C: V. Bacon. Chem Age 32:86 F '24; Same. Chem Age (Lond) 10:13 Ja 5 '24
Tung oil production—a new industry for the South. J. N. McBride. il Manuf Rec 87:74-5 Je 11 '25
Tung oil tree. E. L. Lord and B. F. Williamson. 48p Pepper printing co., Gainesville, Fla. '24
Tung oil seed as a possible horticultural crop in Florida. W. Newell. Chem Age 32: 215-18 My '24
United States, field for tung oil. W: Whittam. il Am Ind 26:37-41 S '25
Use crude methods to extract chinawood oil. W. G. Smith. Foundry 53:555 Jl 15 '25

TUNGSTATES
See Ammonium tungstates

TUNGSTEN
Attempt to electroplate tungsten on iron. C. A. Mann and H. O. Halvorsen. diag Am Electrochem Soc Trans v 45 (preprint 2):13-28 Ap '24
Diffusion of carbon thru tungsten and tungsten carbide. M. R. Andrews and S. Dushman. J Phys Chem 29:462-72 Ap '25
Distribution of initial velocities among thermionic electrons. L. H. Germer. diags Phys R 25:795-807 Je '25
Electrical explosion of tungsten wires. H: V. A. Briscoe, P. L. Robinson and G: E: Stephenson. diags Chem Soc J 127:240-7 Ja '25
Electron emission from adsorbed films on tungsten. K. H. Kingdon. Phys R 24:510-22 N '24
Electron emission from thoriated tungsten filaments. I. Langmuir. Phys R 22:357-98 O '23
Electron emission from tungsten, molybdenum and tantalum. S. Dushman and others. Phys R 25:338-60 Mr '25
Interaction of carbon dioxide and hydrogen on the surface of tungsten. C. N. Hinshelwood and C: R. Prichard. Chem Soc J 127:1546-52 Jl '25
Investigation of the tungsten X-ray emission and absorption spectrum with a vacuum spectrometer. R. V. Zumstein. Phys R 25: 747-52 Je '25
K and L absorption and emission spectra of tungsten. C. B. Crofutt. Phys R 24:9-15 Jl '24
Kinetic energy of electrons emitted from a hot tungsten filament in an atmosphere of (a) argon (b) hydrogen. J. F. Congdon. Philos Mag 6th ser 47:458-65 F '24
Mineral industry of the British Empire and foreign countries; statistics, 1919-1921. 15p Gt. Brit. Imperial mineral resources bur., London '24
Mining tungsten ore at outposts of steel. G. F. Creveling. il map Iron Tr R 74:1112-15 Ap 24 '24
On the emission of positive ions from hot tungsten. W. A. Jenkins. diags Philos Mag 6th ser 47:1025-47 My '24
Preparation of metallic tungsten and some of its alloys. L: Kahlenberg and H: H. Kahlenberg. Am Electrochem Soc Trans v 46 (preprint 4):51-61 O '24
Short-length tungsten arc characteristics. S. H. Anderson and G. G. Kretchmar. diags Phys R 26:33-43 Jl '25
Simple rigidity of a drawn tungsten wire at incandescent temperatures. W: Schriever. diag Phys R 23:255-65 F '24
Soft X-rays from tungsten. C. B. Bazzoni and C. T. Chu. diags J Fr Inst 197:183-97 F '24
Specific heat of incandescent tungsten by an improved method. L. I. Bockstahler. diags Phys R 25:677-85 My '25
Strength of tungsten single crystals and its variation with temperature. diags Philos Mag 6th ser 48:229-49, pl 6-8 Ag '24
Studies on the deformation of tungsten single crystals under tensile stress. Philos Mag 6th ser 48:800-19, pl 16-24 N '24
Tungsten minerals are sought widely. Iron Tr R 74:991 Ap 10 '24
Tungsten mining during 1923. F. L. Hess. Eng & Min J 117:95 Ja 19 '24
Tungsten mining during 1924. F. L. Hess. Eng & Min J 119:90 Ja 17 '25
See also Wolframite

Analysis

Analytical methods for certain metals. C. W. Davis. U S Bur Mines Bul 212:131-67; Bibliography. 167-72 '23
Determination of small amounts of boron in tungsten. D. H. Brophy. Am Chem Soc J 47:1856-61 Jl '25
Volumetric determination of small quantities of carbon in tungsten by combustion. W. J. King. diags Am Chem Soc J 47:615-21 Mr '25

TUNGSTEN alloys
Alloying tungsten with aluminium containing ten per cent copper. M. R. Whitmore and F. T. Sisco. il Ind & Eng Chem 17:15-20 Ja '25
Preparation of metallic tungsten and some of its alloys. L: Kahlenberg and H. H. Kahlenberg. Am Electrochem Soc Trans v 46 (preprint 4):51-61 O '24

TUNGSTEN alloys—*Continued*
Preparation of tungsten alloys. Brass W 21: 326 S '25

See also Tungsten steel

TUNGSTEN carbide
Diffusion of carbon thru tungsten and tungsten carbide. M. R. Andrews and S. Dushman. J Phys Chem 29:462-72 Ap '25

TUNGSTEN halides
Action of ammonia and of a solution of potassium amide in liquid ammonia on certain halides of molybdenum and tungsten. F. W. Bergstrom. diag Am Chem Soc J 47:2317-23 S '25

TUNGSTEN lamps. See Electric lamps, Tungsten

TUNGSTEN steel
Beitrag zur analytischen chemie wolframhaltiger stähle. F. Fettweis. Stahl & Eisen 45: 1109-10 Jl 9 '25
Ferro-alloys. F: M. Becket. Ind & Eng Chem 16:201-2 F '24; Same. Chem & Met Eng 30: 391-2 Mr 10 '24
Nachprüfung der löslichkeitslinie für kohlenstoff in chrom- und wolframstählen. P. Oberhoffer, K. Daeves and F. Rapatz. il Stahl & Eisen 44:432-5 Ap 17 '24; Discussion. 45:583-7, pl 22 Ap 16 '25
Nature of some low-tungsten tool steels. M. A. Grossmann and E. C. Bain. Am Mach 63:499-500 S 24 '25
Über magnetstahl. G. Hannack. Zeit Ver Deutsch Ing 69:764-5 My 30 '25
Ueber magnetstahl unter besonderer berücksichtigung der beziehungen zwischen kohlenstoff und den magnetischen eigenschaften. G: Hannack. Stahl & Eisen 44:1237-43 O 9 '24

TUNGSTIC acid
Continuous process for manufacture of sodium tungstate and tungstic acid from wolframite. N. T. Gordon and A. F. Spring. bibliog il diags Ind & Eng Chem 16:555-62 Je '24

TUNING forks
Production of sub-harmonics. W. N. Bond. Philos Mag 6th ser 49:236-40, pl 4 Ja '25
Tuning fork generator. A. G. Lee. il diag Electrician 94:510-11 My 1 '25

TUNIS
Tunis; its resources, industries, and commerce with reference to United States trade. J. R. Mood. map U S Bur For & Dom Com misc ser 122:1-57 '23

TUNNEL air
Temperatures in cabs of freight locomotives passing through tunnels of the Chesapeake & Ohio railroad. S. H. Katz and E. G. Meiter. diag maps U S Bur Mines Rep of Invest 2624:1-8 '24 (typew); Same abr. Ry Age 75: 461-3 S 13 '24; Same. Ry R 77:391-6 S 13 '24

TUNNEL drainage
Concrete flumes solve tunnel drainage problem. M. F. Clements. il diags Ry Age 77:189-91 Ag 2 '24; Same. Eng & Contr (Ry) 62:407-10 Ag 20 '24

TUNNEL inspection
Car for examining tunnels. il Sci Am 131:91 Ag '24

TUNNEL kilns. See Kilns

TUNNEL lighting
Study of lighting for Hudson river vehicular tunnel. B. E. Shackelford and D. W. Atwater. il diags Illum Eng Soc 19:638-61 S '24

TUNNEL lining
Concrete lining methods in the Skagit tunnel. il diag Eng N 93:700-1 O 30 '24
Fords and turntable used to advantage in tunnel-lining job. il Eng N 93:274-5 Ag 14 '24
Lining North America's longest tunnel with concrete. il Concrete 26:162-3 My '25
Lining Pit no. 3 tunnel using pneumatic concrete guns. il diags Eng N 95:128-32 Jl 23 '25
Lining the Connaught tunnel, C.P. Ry. il Ry R 76:491-7 Mr 14 '25
Lining tunnels with concrete. J. E. Harding. diags Eng & Min J 119:891-2 My 30 '25
Placing concrete lining in the Hetch Hetchy tunnels. W. F. Webb. il Eng N 94:350-3 F 26 '25

TUNNEL ventilation
Carbon monoxide under traffic in Liberty tunnels. A. C. Fieldner, W. P. Yant and L. L. Satler, jr. diags plans Eng N 93:1022-4 D 25 '24
Continuous CO recorder in the Liberty tunnels. A. C. Fieldner, S. H. Katz and E. G. Meiter. il diag Eng N 95:423-4 S 10 '25
Exhaust-and-supply ventilation of a long street tunnel. il diags Eng N 94:764-7 My 7 '25; Abstract. Génie Civil 86:537-8 My 30 '25
Flushing system advocated for ventilating Holland vehicular tunnel. diags Heat & Ven 22:77-9 Ap '25
Gassing of trackmen in tunnels. Eng N 92:354 F 28 '24
Natural ventilation in the Liberty tunnels. A. C. Fieldner, W. P. Yant and L. L. Satler, jr. il plan Eng N 93:290-1 Ag 21 '24; Discussion. J: F. O'Rourke. 93:518 S 25 '24
Necessity for small tunnel ventilation. A. L. Greene. il Nation's Health 6:327-8 My '24
Ventilating an 8,000-ft. tunnel. W. R. Lindsay. diag Eng & Min J 118:139-40 Jl 26 '24
Ventilating the new Liberty tunnel in Pittsburgh; electric equipment of power house. A. McGonagle. il diag plans Elec J 22:102-8 Mr '25
Ventilation methods in Florence Lake tunnel. il diag Eng N 94:1010-12 Je 18 '25
Ventilation progress on New York-New Jersey vehicular tunnel. il diags Am Soc Heat & V E J 30:327-34 Ap '24

See also Subways—Ventilation; Tunnel air

Bibliography
Ventilation of railroad tunnels. Bur Railway Econ Lib p. 1-25 Ap '25 (typew)

TUNNELS and tunneling
Alouette-Stave lake hydro development. C. E. Blee. il diags map plan Can Eng 49:223-8 Ag 18 '25
Arthur's Pass tunnel in New Zealand completed. F. W. Furkert. il diags Eng N 92: 395-6 Mr 6 '24
Baker river pressure tunnel nears completion. W. D. Shannon. il diags map J Elec 54: 248-9 Ap 1 '25
Blasting in Swiss tunnels. A. Stettbacher. il diags Eng & Contr (Ry) 61:840-3 Ap 16 '24
Car switching device for tunnel work. il Eng & Contr (G C) 63:1127-8 My 20 '25
Colorado's six-mile tunnel under the Rockies. T. M. Fisher. il Sci Am 129:406 D '23
Construction methods on six-mile Moffat tunnel. il diags map plans Eng N 94:966-71 Je 11 '25; Abstract. Génie Civil 87:285-7 O 3 '25
Construction of the Shepaug tunnel. il Eng & Contr (W W) 63:301-4 F 11 '25
Construction of 13-mile Florence Lake tunnel sets many records. J Elec 54:161-5 Mr 1 '25; Eng & Contr (G C) 63:803-5 Ap 17 '25
Country's longest tunnel project; Moffat tunnel through the Colorado Rockies. il diags maps Ry R 74:174-81 Ja 26 '24
Culvert replaced by tunneling. F. H. Cramer. diags Eng & Contr (Ry) 62:401-5 Ag 20 '24
Difficulties in long tunnel for Japanese railways. K. Kusuda. il diag Eng N 95:336-8 Ag 27 '25
Driving a long small-section wet rock tunnel; the Great Notch tunnel. il diags map Eng N 93:744-7 N 6 '24
Driving Florence Lake tunnel, 13 miles long, requires 1,773,000 man-shifts. il Eng & Min J 119:498 Mr 21 '25; Eng N 94:369 F 26 '25; Elec W 85:498 Mr 7 '25
Driving six-mile Shimizu tunnel on the Japan railways. Y: Hashimoto. diag map Eng N 95:171-2 Jl 30 '25

TUNNELS and tunneling—*Continued*

Driving the Moffat tunnel; good organization and equipment expedite work. D. C. Deringer, jr. il chart diag Eng & Min J 118:765-9 N 15 '24; Same. Eng & Contr (Ry) 62 1317-21 D 17 '24

Driving Wanaque tunnel for North Jersey water supply; 860-ft. tunnel to carry supply line under overflow channel of dam. diags Eng N 95:460-1 S 17 '25

Easy method for properly directing the holes for V-cuts in tunnel driving. C: S. Turter. diags Eng & Contr (Ry) 60:1321-2 D 19 '23

Failure of a London tube while being rebuilt under traffic. diags Eng & Contr (Ry) 63: 359-63 F 18 '25

Florence Lake tunnel—an epic of the West. L. Lyons. N E L A Bul 12:168-70 Mr '25

Gasoline equipment used in long, narrow tunnel. W. C. Hogoboom. il Eng & Contr (W W) 63:1072-3 My 13 '25

Hetch Hetchy tunnel. il Eng & Contr (G C) 64:141-8 Jl 15 '25

Important street railway tunnel in Los Angeles. il Ry R 74:925-6 My 24 '24

Intake tunnel through New Orleans levee in sheetpile cofferdam. R. H. Chambers. il diags plan Eng N 92:560-2 Ap 3 '24

Irrigation tunnel constructed in earth and hard clay. Eng N 95:393-4 S 3 '25

Japan railway tunnels and the earthquake. Eng N 92:559 Ap 3 '24

Liberty tunnels completed at Pittsburg. diag Can Eng 49:499 O 27 '25

Longest power tunnel in the world; Florence Lake bore. H. A. Barre. il Am Ind 25:29-33 Jl '25

Maintaining compressed-air lines 19,000 ft. long. diag Eng N 94:1012 Je 18 '25

Moffat tunnel progress. Eng N 92:402; 94:497 Mr 6 '24, Mr 19 '25

Mountain highway built on railway grade. il diag map Eng N 94:1016-17 Je 18 '25

New device for tunnel work. J. F. Cohig. il diags Eng & Contr (G C) 64:173-5 Jl 15 '25

New devices in the Moffat tunnel. il Eng N 94:403-4 Mr 5 '25

New tunnel in Los Angeles for Pacific electric railway company. E. C. Thomas. il diags map Aera 13:198-204 S '24

Niagara falls scenic tunnel. il Can Eng 47:386 S 30 '24

Open cut and tunnel in Manhattan schist. il diags map Eng N 94:264-8 F 12 '25

Progress in the art of tunneling. J. V. Davies. il diag Eng N 92:674-9 Ap 17 '24

Rush work on the Natron cutoff, Central Pacific Ry. il diags Eng N 94:388-90 Mr 5 '25

Sand troubles in driving tunnel. Eng & Contr (G C) 64:393-5 O 21 '25

Sewer tunnel in Cleveland. il Pub Works 55: 345-6 N '24

Shandaken—longest tunnel in world. F. Byrne. il map Am Ind 24:11-13 My '24

Six-mile Moffat tunnel through the Rocky mountains. diags maps Eng N 91:962-5 D 13 '23

Survey control in driving 3-mile water-supply tunnel. R: R. Bradbury. il Eng N 95: 594-8 O 8 '25

Tunnel digging is begun in Los Angeles. C. A. Elliott. il diag map Elec Ry J 64:349-51 S 6 '24

Tunnel enlargement on a London tube railway. il Eng N 93:953 D 11 '24

Tunnel hauling with Ford trucks. Pub Works 56:80 Mr '25

Tunnel heading model shows standard round of holes. il Eng N 93:153 Jl 24 '24

Tunnel scheme for Ottawa. Can Eng 47:273-4 Ag 26 '24

Tunneling in volcanic formations on Pit river project. il diags map Eng N 93:168-71 Jl 31 '24

Tunneling on the Skagit river project. Pub Works 54:390 D '23

Tunneling operations at Big Creek, Calif. E. D. Gardner. il diags Eng & Min J 118:885-9 D 6 '24

Tunneling to empire through continental divide. W. S. Smith. il Forbes 14:428-31 Jl 5 '24

Water admitted to world's longest tunnel. il map Eng N 92:297+ F 14 '24

Work on Moffat tunnel now in full progress. il diags map Ry Age 77:889-94 N 15 '24

See also Blasting; Drilling and boring (earth and rocks); Excavation; Mining engineering; Pipe laying; Rock drills; Sewerage; Subways; Tunnel lining; Tunnel ventilation; *also* Catskill aqueduct

Accidents

Soft-ground tunnel accident at Milwaukee, Wis., kills four. diag Eng N 93:706 O 30 '24

Cost

Rock tunneling costs in Norway. E. Moe. Eng N 95:26-7 Jl 2 '25

Power

Water-works construction offers 1,400-hp. load. B. J. George. il Elec W 86:806-7 O 17 '25

Safety measures

Accident prevention in tunnel work. G. C. Brown. Eng & Contr (Ry) 61:1119 My 21 '24

TUNNELS and tunneling, Subaqueous

Building the Hudson river vehicle tunnel. il diags plan Eng N 92:798-803 My 8 '24

Driving a small tunnel under air pressure at Seattle. il Eng N 94:401-2 Mr 5 '25

Graphical record of East river tunnel construction. Eng N 92:164 Ja 24 '24

How an emergency screen saved life in Hudson tunnel blowout. il Sci Am 131:5 Jl '24

Liverpool tunnel, forty-four feet in diameter, will be the largest in existence. il Sci Am 131:397 D '24

Novel plan for estuary tunnel at Oakland, Calif. diags map Eng N 93:720-1 O 30 '24

Proposed Windsor-Detroit traffic tunnel. diags plan Can Eng 48:559-60 Je 9 '25

Vehicle tunnel under Hudson river paved with granite. il diags plan Eng N 95:726-7 O 29 '25

Verdigris River tunnel. W. R. Holway. il diag Pub Works 56:126-8 Ap '25

World's largest subaqueous tunnel; building a $60,000,000 freight and passenger tunnel beneath the Narrows, New York. il Sci Am 129:412-13 D '23

See also English channel tunnel; Hudson river tunnels

TURBIDIMETER

Sensitive detection of suspended matter and a proposed standard of clarity in filtered water. J: R. Baylis. diags Am Water Works Assn J 11:824-32 Jl '24; Same abr. Eng & Contr (W W) 62:369-71 Ag 13 '24; Abstract. Pub Works 55:309-10 O '24

Turbidimetric estimation of precipitates. P. L. Hibbard. il Ind & Eng Chem 16:804-5 Ag '24

TURBIDISCOPE

Simple turbidiscope. W. D. Horne and E. W. Rice. diag Ind & Eng Chem 16:626 Je '24

TURBIDITY

Analysis of binary mixtures; volumetric turbidity method. C: D. Bogin. Ind & Eng Chem 16:380-6 Ap '24

TURBINE furnace. See Furnaces, Boiler—Turbine furnace

TURBINE generators. See Electric generators

TURBINES

Another milestone in hydraulic turbine design. F. Nagler. Power 59:616 Ap 15 '24

Die bedeutung der durchgehdrehzahl für die bemessung von wasserturbinensätzen. C. Reindl. Elektrotech Zeit 46:645-7 Ap 30 '25

Both have much to their credit; American and European hydraulic-turbine practice. Power 58:1034; 59:301-3, 457-8, 734-5, 959-60; 60:27, 65 D 25 '23, F 19, Mr 18, My 6, Je 10, Jl 1-8 '24

Brush vertical water wheel alternator. il Electrician 94:629 My 29 '25

TURBINES—*Continued*
Change in hydraulic-turbine guarantees needed. J: S. Carpenter. Power 61:575-6 Ap 14 '25
La construction et l'entretien des grilles pour la protection des turbines hydrauliques. il diags Génie Civil 85:225-30 S 13 '24
Control of power production. C: L. Hubbard. il diags Factory 32:822-5+ Je '24
Design of 65,000-kva. generator. R. B. Williamson. il diags Elec W 85:289-93 F 7 '25
Determining fall in pressure in hydraulic turbine penstocks. W. I. Barrows. chart Power 60:507 S 23 '24
Development of the water turbine. Chalons. Engineering 120:241-2 Ag 21 '25
Die eigenschaften der wasserturbinen bei gleichbleibender drehzahl und stark veränderlichem gefälle. R. Dubs. Zeit Ver Deutsch Ing 68:872-6 Ag 23 '24
Einfluss des auftreffwinkels bei becherturbinen. H. Ludewig. diags Zeit Ver Deutsch Ing 69:723-5 My 23 '25
Einflüsse auf den wirkungsgrad von wasserturbinen; propellerturbine. F. Staufer. diag Zeit Ver Deutsch Ing 69:415-17 Mr 28 '25
Die einheitsgrössen der becherturbinen unter wechselnden bedingungen. G: Karrass. diags Zeit Ver Deutsch Ing 68:902-4 Ag 30 '24
Eliminating turbine runner pitting. F: Krug. diags Elec W 84:1265 D 13 '24
Erection of turbines at Isle Maligne. C: M. Scudder. il Can Eng 49:449-52 O 13 '25
European development in high-speed hydraulic turbines. E. Englesson. il diags Power 58: 758-60 N 13 '23; Same. Can Eng 45:481-3 N 13 '23
L'évolution des turbines hydrauliques modernes. Génie Civil 86:411-12 Ap 25 '25
Die experimentelle forschung im wasserkraftfach. D. Thoma. il diags Zeit Ver Deutsch Ing 69:329-34 Mr 14 '25
L'extension des usines de la Niagara Falls power co., à Niagara Falls (E.-U.); les turbines hydrauliques de 70,000 ch. il diags plan Génie Civil 87:328-33 O 17 '25
Fall in pressure in hydraulic turbine penstocks due to acceleration of flow. S. L. Kerr. charts Power 60:266-8 Ag 12 '24
Fortschritte im turbinenbau nach dem weltkriege. C. Schmitthenner. il diags Zeit Ver Deutsch Ing 68:349-58 Ap 12 '24
Fragen der neueren turbinentheorie. Schilhansl. il diags Zeit Ver Deutsch Ing 69:779-83 Je 6 '25
Francisturbinen mit liegender welle nach der einbauweise von Hallinger. C. Reindl. il diags Zeit Ver Deutsch Ing 68:119-23 F 9 '24
Genesis of the Pelton wheel. A. T. Parsons. il Am Mach 60:61-3 Ja 10 '24
Great Falls hydro-electric development of the Manitoba power company. il diags maps plan Power 59:436-42 Mr 18 '24
Grossespiralturbinen für das kraftwerk Omine in Japan. Troeltsch. il diag Zeit Ver Deutsch Ing 68:377 Ap 12 '24
Der heutige stand der Kaplanturbine und propellerturbine. C. Reindl. il diags Elektrotech Zeit 46:1581-4 O 15 '25
High specific speed hydraulic turbines in their bearing on the proportioning of the number of units in low-head hydro-electric plants. G: A. Jessop. Am Soc C E Pro 51:1043-9 Ag '25; Abstract. Mech Eng 47:286 Ap '25
High specific speed turbines. G: A. Orrok. il diags Am Soc C E Pro 51:1000-8 Ag '25; Abstract. Power 61:276 F 17 '25
High-speed suction turbines. F. Nagler. il Am Soc C E Pro 51:1032-42 Ag '25; Abstracts. Power 61:277 F 17 '25; Mech Eng 47:287 Ap '25; Discussion. Am Soc C E Pro 51:1677-87; 52:171-3 O '25, Ja '26
Historical note on the Kaplan turbine suitable for medium and low heads. J. Kneidl. Engineering 118:183 Ag 1 '24
Hydraulic reaction turbine. H. B. Taylor. Engineering 118:71-3 Jl 11 '24
Hydraulic turbine of new design developed in England. F. Johnstone-Taylor. diags Eng N 95:72-3 Jl 9 '25
Hydraulic turbines at the British Empire exhibition. il diags Engineering 118:610-12 O 31 '24
Hydraulic turbines for New Zealand. il diags Engineer 140:223-4 Ag 28 '25; Mech Eng 47: 928 N '25
Hydro turbines with propellor runners. F. Johnstone-Taylor. il diags Can Eng 49:263-5 S 1 '25
Im offenen flüssigkeitsstrom arbeitende flügelräder. E. Moeller. diags Zeit Ver Deutsch Ing 68:675-80 Je 28 '24
Interrelation of operation and design of hydraulic turbines; abstract. F. H. Rogers and L: F. Moody. diags Mech Eng 47:353-4 My '25
Largest turbines in West designed for Pit no. 3. E. A. Crellin. il J Elec 54:174-6 Mr 1 '25
Mechanical problems of hydraulic-turbine design. W: M. White. il diags Mech Eng 47: 469-72 Je '25; Abstract. Power 61:884-5 Je 2 '25
Modern tendencies in water-wheel design. H. O. Dahl. Engineering 118:63 Jl 11 '24
More steam-engine power without steam; replacing water and steam with a mysterious liquid. I. Ginsberg. il Sci Am 130:168+ Mr '24
Neue turbinenregler mit beschleunigungssteuerung. Gagg. il diag Elektrotech Zeit 46:517-19 Ap 9 '25
Die neue wasserturbinen-versuchsanstalt von Escher, Wyss & Cie. R. Dubs. diags Zeit Ver Deutsch Ing 68:1227-8 N 22 '24
Die neuesten fortschritte des wasserturbinenbaues in Europa und Amerika; abstract. C. Reindl. il diags Elektrotech Zeit 46:739-40 My 14 '25
New water turbine. E. Friedmann. il Manuf Rec 88:72 S 24 '25
Niagara Falls power; largest hydraulic unit ever built has been put in operation. il Iron Age 112:1725-6 D 27 '23
Oak Grove high-head-turbine development of the Portland electric power company. E. C. Hutchinson. il Mech Eng 47:449-54 Je '25
Pitting of hydraulic-turbine runners; report of the N.E.L.A. hydraulic power committee investigating the causes of pitting of waterwheels. il diags Power 60:31-3 Jl 1 '24
Present trends in western hydro-electric practice. E. C. Hutchinson. il Elec W 86:614-18 S 26 '25
Preventing corrosion of hydraulic turbines. il Power 60:576 O 7 '24
Preventing water losses through turbine gates. F: Krug. Elec W 82:1227 D 15 '23
Propeller type turbine. L. F. Moody. il diags Am Soc C E Pro 51:1009-31 Ag '25; Abstracts. Power 61:276-7 F 17 '25; Mech Eng 47:285-6 Ap '25
Die propellerturbine. R. Dubs. il diags Zeit Ver Deutsch Ing 68:1243-6 N 29 '24
Die propellerturbinen des neuen elektrizitätswerkes Wynau. diag Elektrotech Zeit 46: 1119 Jl 23 '25
Proportioning of units in low-head plants. J: P. Hogan. Am Soc C E Pro 51:1062-4 Ag '25; Same cond. Power 61:277-8 F 17 '25
Recent European hydraulic machinery design. F. Johnstone-Taylor. il diags Power Pl Eng 29:742-4 Jl 15 '25
Recent hydraulic turbines for high heads. il Power Pl Eng 29:638-41 Je 15 '25
Record size hydraulic turbines. il Power 61: 409 Mr 17 '25
Das schwedische grosskraftwerk bei Lilla Edet. diags Elektrotech Zeit 46:463-4 Mr 26 '25
Screw-propeller turbines at Wynau, Switzerland. il diags Engineering 119:194-5, 198 F 13 '25; Engineer 139:220-1 F 20 '25
Small hydro-electric units. il diags Engineering 119:279-81, 339-40, 407-9, 502-4 Mr 6, 20, Ap 3, 24 '25
Some applications of the propeller type water turbine in Europe. C: C. Egbert. il diags Am Soc C E Pro 51:1050-61 Ag '25; Abstract. Power 61:276 F 17 '25

TURBINES—*Continued*
Some English water turbines. il Elec R (Lond) 95:701-3 N 7 '24
Specific speed, its meaning and use as applied to hydraulic turbines. R. T. Livingston. il diags Power 60:880-2 D 2 '24
Speeding up the water turbine. C. A. Oldroyd. il diags Sci Am 130:327 My '24
Three 70,000-hp.turbines installed at Niagara falls. il diags plans Eng N 94:304-10 F 19 '25
Les turbines à hélice de l'usine hydro-électrique de Wynau (Suisse). il diags Génie Civil 85:151-4 Ag 16 '24; Abstract. Mech Eng 46: 704-5 N '24
Les turbines rapides à distributeur conique de l'usine hydro-électrique de Chèvres (Genève). il diags Génie Civil 84:307-9 Mr 29 '24
Die turbinen der Raanaasfoss-wasserkraftanlage, Norwegen. H. Thoresen. il diags Zeit Ver Deutsch Ing 68:368-76 Ap 12 '24; Same. Can Eng 45:581-5, 601-6 D 18-25 '23; Same. Engineer 137:60-3, 86-8 Ja 18-25 '24; Abstract. Power 59:278-81 F 19 '24
Über schnellaufende konusturbinen. diag Elektrotech Zeit 45:250-1 Mr 20 '24
Die wasserturbinen auf der Jubiläumsausstellung in Gothenburg 1923. H. Munding. il diags Zeit Ver Deutsch Ing 68:359-66 Ap 12 '24
Wasserturbinenanlage Kanidera in Japan. J. Moser. il diags Elektrotech Zeit 46:489-91 Ap 2 '25
Waterwheel construction and governing. E. M. Breed. Am Inst E E J 42:1261-3 D '23; Discussion. 43:261-2 Mr '24
World's largest hydraulic turbines. H. B. Taylor; W: M. White. il Power 61:816-21 My 26 '25
World's record high-head reaction-type hydraulic turbine at Oak Grove power station of the Portland electric power co. C. P. Dunn. il diags map Power 61:871-2 Je 2 '25
Wynau power station; some particulars of a new propeller-type turbine. il diag plan Elec R (Lond) 97:364-5 S 4 '25
Zur frage der anfressungen von turbinenlaufrädern. Feifel. il diags Zeit Ver Deutsch Ing 69:815-18 Je 13 '25
Zwei moderne turbinenanlagen. R. Hofmann. il diags Zeit Ver Deutsch Ing 68: 397-400 Ap 19 '24

See also Air turbines; Draft tubes; Gas turbines; Governors (machinery); Steam turbines; Water wheels

Accidents

Large Niagara turbines survive first serious accident. il diag Eng N 93:956 D 11 '24
Runner and guide vanes damaged on large waterwheel. Power 60:999 D 16 '24

Bearings

Adjustable lignum-vitae guide bearing for hydraulic turbines. il Power 59:638 Ap 22 '24
Experience with bearings and vibration conditions of large hydroelectric units. J: Harisberger. Am Inst E E J 43:428-9 My '24
Ein versuchstand für grosse axialdrucklager. E. Feifel. il diags Zeit Ver Deutsch Ing 69: 679-83 My 16 '25

Cost of operation

Value of efficiency in transforming and distributing energy. C: E. Lucke. Mech Eng 46:317-24, 380-5 Je-Jl '24

Inspection

Compressed air used for hydraulic-turbine inspection. C. R. Reid. diags Power 62:716-17 N 10 '25

Lubrication

Lubrication of hydraulic turbines; a summary of the replies given in the Hydraulic power committee's 1924 report. Power 59:922-3 Je 3 '24

Manufacture

Assembling 15,000-horsepower impulse-turbine runners. R. Brown. il Power 59:867-8 My 27 '24
Assembling heavy hydraulic units in plant at Bombay. il Eng N 92:328 F 21 '24
Building huge hydro-electric machinery. il Mach 30:892-3 Jl '24
Building hydraulic turbines of unusual size. E. T. Spidy. il Am Mach 60:345-9 Mr 6 '24
Fabricating hydroelectric units. H. R. Simonds. il Iron Tr R 74:732-5 Mr 13 '24
Handling heavy castings. il plan Foundry 53: 814-17 O 15 '25
Large plate steel spiral turbine casings installed at Isle Maligne, Que. il Can Eng 48:373-6 Ap 7 '25
Machining massive parts of the world's largest prime movers. E. J. Armstrong. il diags Mech Eng 46:263-7 My '24; Abstract. Iron Age 113:1013 Ap 3 '24
Makes heavy turbine casing. J. Shaw. il Foundry 52:776-8 O 1 '24
Werkzeugmaschinen für den wasserturbinenbau. O: Meyer. il Zeit Ver Deutsch Ing 69:294-6 F 28 '25

Repair

Repairing seal sections of reaction turbines. F: Krug. il diags Elec W 83:678-9 Ap 5 '24
Unusual repair to hydraulic turbine. A. Groesbeck. diag Power 59:995-6 Je 17 '24
Waterwheel buckets built up by welding. il Power 59:397-8 Mr 11 '24

Statistics

Engines and waterwheels manufactured in 1923. Power 60:1002 D 16 '24

Testing

Checking the operation of hydro-electric units. R. Brown. il Power 59:361-3 Mr 4 '24
Comparison of medium-speed and high-speed hydraulic turbines. G: A. Jessop. Power 61: 473-4 Mr 24 '25
Davis Bridge wheel efficiencies. Elec W 85: 257 Ja 31 '25
Efficiency tests of Raanassfoss turbines. H. Thoresen. diags Power 59:558-60 Ap 8 '24
Gibson method and apparatus for measuring the flow of water in closed conduits. N. R. Gibson. il diags plan Mech Eng 45:679-84 D 6 '23; Power 58:1020-1 D 25 '23
Das Gibsonsche wassermessverfahren. K. Pantell. diag Zeit Ver Deutsch Ing 68:366-7 Ap 12 '24
Hydraulic efficiency tests made on 43,000-hp. unit. Eng N 93:705 O 30 '24
Hydraulic turbine efficiency. F. Johnstone-Taylor. diags Power Pl Eng 28:436-7 Ap 15 '24
Tests made on largest hydraulic turbine at Holtwood. R. E. Turner. diags Power 62: 608-10 O 20 '25
Tests of hydraulic turbines of the Lawaczeck type. A. H. Gibson. il diags Engineering 118:851-2 D 26 '24
Versuchsergebnisse von Storek-Kaplanturbinen. H. Mikyska. il diags Zeit Ver Deutsch Ing 68:416-18 Ap 26 '24; Abstract. Mech Eng 46:420-1 Jl '24

Vibration

Experience with bearings and vibration conditions of large hydroelectric units. J: Harisberger. Am Inst E E J 43:428-9 My '24
Study of irregularity of reaction in Francis turbines. R. Wilkins. il diags Am Inst E E J 42:1141-4 N '23; Same cond. Power 58:827-8 N 20 '23; Abstract. Eng N 91:764-5 N 8 '23; Discussion. Am Inst E E J 43:261-2 Mr '24

TURBINES, Steam. See Steam turbines
TURBO-blowers. See Blowers
TURBO-generators. See Electric generators
TURBULENCE. See Flame propagation; Winds
TURKESTAN

See Mines and mineral resources—Turkestan

TURKEY

See also Advertising—Turkey; Architecture—Turkey; Debts, Public—Turkey; Mines and mineral resources—Turkey; Railroads—Turkey

Commerce

Doing business in the Balkans. S. Crowther. il System 45:786-9+ Je '24

Economic conditions

Department of overseas trade report on the economic and commercial conditions in Turkey. Engineering 120:296-7 S 4 '25

Economic and business depression continues in Turkey. Comm & Fin Chr 119:2708-9 D 13 '24

Turkey of to-day. Comm & Fin Chr 120:2077-9 Ap 25 '25

TURKEY red oil. See Castor oil, Sulfonated

TURMERIC paper

Double-reacting turmeric paper. W: Brinsmaid. Ind & Eng Chem 17:264 Mr '25

TURNBUCKLES

Prices

New list prices and discounts on turnbuckles. Iron Age 114:1681 D 25 '24

TURNER, Samuel Gilbert Hathaway

S. G. H. Turner of Elmira—the home-town boy who made good. E: Hungerford. por Ptr Ink M 7:27-8+ D '23

TURNER, Scott

New director of Bureau of mines. por Coal Age 28:637 N 5 '25; Eng & Min J 120:742, 764 N 7-14 '25; Nat Pet N 17:28 N 4 '25

TURNER construction company

Care of construction plant equipment. J. E. Buhl. il plans Concrete 25:232-4 D '24; Same cond. Eng & Contr (Bldgs) 62:893-5 O 22 '24

Contractor maintains service and repair plant. il plans Eng N 94:100-3 Ja 15 '25

TURNING

Brightman shafting-turning machine. il Am Mach 62:556 Ap 2 '25; Iron Age 115:1048 Ap 9 '25

Bullard 10-in., 6-spindle "contin-u-matic." il Am Mach 60:711-13 My 8 '24; Mach 30:807-8 Je '24

Elliptical turning device. J. R. Henderson. diags Mach 31:560-2 Mr '25

Example of the ancient art of brass turning. M. Wright. il Am Mach 60:834 Je 5 '24

Foster bolt turning machine. il Am Mach 60: 982-3 Je 26 '24; Ry Mech Eng 98:382-4 Je '24

Lathe attachment for elliptic turning. I. F. Yeoman. il diags Mach 30:677-8 My '24

Lathe attachment for turning lift shaft ends. diags Ry Mech Eng 98:332 Je '24

Lathe fixture for elliptical turning and boring. T: C. Smillie. il diag Mach 31:476 F '25

Machine for turning round shanks. W: Denton. il Am Mach 61:546-7 O 2 '24

Machining balls and sockets. W. R. Graham. diags Mach 31:284-5 D '24

Melling crankshaft turning machines. il Mach 31:397-8 Ja '25

Portable crankpin turning device. J. Ellis. diags Mach 30:802 Je '24

Precision form-turning. O. S. Marshall. il diags Mach 30:860-3 Jl '24

Schellenbach multiple-diameter stop. il Am Mach 62:331 F 19 '25; Mach 31:576-7 Mr '25

Tools and fixtures for turning eccentrics. F. H. Mayoh. diags Mach 30:976-9 Ag '24

Turning and graduating a sphere. O. S. Marshall. il Mach 30:885-6 Jl '24

Turning interrupted oil-grooves in pistons. H. W. Cable. diags Mach 31:136-7 O '24

Turning long slender work. F. H. Mayoh. diags Mach 31:42-5 S '24

Turning mounted crank pins on a quartering machine. A. E. Nye. il Ry Mech Eng 98: 241-2 Ap '24

Turret lathe in the railroad shop. il diags Mach 31:346-8 Ja '25

Turret taper-turning attachment. F. W. Curtis. diag Am Mach 62:476 Mr 19 '25

Die untersuchung der dreharbeit. H. Klopstock. il diags Zeit Ver Deutsch Ing 69:215-21, 311-14 F 21, Mr 7 '25; Abstracts (Investigations in turning and planing). Mech Eng 47:474-9 Je '25; Am Mach 62:881-3 Je 4 '25

See also Lathes

TURNOVER

Are we going too far with turnover talk to dealers? A. J. Reiss. Sales Management 7:1845-6 D '24

Buy little and often. T. B. Stedman. il System 45:250+ F '24

Capital turnover and profits. C. A. Musselman. il Automotive Ind 52:527-8 Mr 19 '25

Don't abuse your friend, turnover. R. Tenk. Comm & Fin 13:2321-2 D 3 '24

Handling a complex material inventory. R. Rosenthal. Management & Adm 9:267-9 Mr '25

How concentration and turnover build a retail business. E: M. Skinner. Ptr Ink M 10:17-18+ My '25

How spot stock can strengthen the selling machine. G. A. Nichols. Ptr Ink 126:17-20 Ja 3 '24

How warehousing can promote spot stock turnover. H. A. Haring. Ptr Ink 129:57-8+ N 20 '24

How we get 12 turns a year. C. W. Nash. il Factory 33:329-31+ S '24

Let's soft-pedal turnover. T. W. McAllister. Ptr Ink 129:121-2+ D 18 '24

New "quick turnover" policy in American trade and its ultimate effect upon prices. A. R. Marsh. Econ W n s 27:867-8 Je 21 '24

133% on invested capital; 7 turns, through the "flyer" plan. C: S. Miller, jr. System 46: 786-7+ D '24

Operating and financial ratios characteristic of industries. J. H. Bliss. Management & Adm 7:155-60 F '24

Quick sales lower the costs. Comm & Fin 14:1752 S 16 '25

Relation of advertising to capital turnover. J. K. Mason. Ptr Ink M 8:69+ Ap '24

Responsibility for turnover. R. Dickinson. Ptr Ink M 9:19-20+ O '24

17 stockturns a year through the bargain appeal. E: A. Filene. il System 45:469-73+ Ap '24

Showing the dealer where the profit is. M. T. Copeland. Ptr Ink 127:82+ My 8 '24

Six ways to increase the rate of turnover. E. M. Skinner. System 45:305-9+ Mr '24

Talking turnover in the retailer's language. R. Crothers. Ptr Ink M 8:52+ Ap '24

Volleys of turnovers. E. Dakin. Comm & Fin 14:815-17 Ap 29 '25

What Simmons discovered about turnover. R. W. Blair. Ptr Ink 129:111-12+ D 18 '24

Why I can buy bargains. E. Dakin. Comm & Fin 13:1075-7 Je 4 '24

Why permit so many retailers to go broke? G. A. Nichols. Ptr Ink M 8:17-18+ Ja '24

See also Retail trade—Stock

TURNOVER of labor. See Labor turnover

TURNSTILES, Fare collecting

Automatic passimeter station. il Elec Ry J 63:805 My 24 '24

Folding arm turnstile. il Elec Ry J 65:1022 Je 27 '25

TURNTABLES

New turntable at Roseburg, Ore., installed in record time. il diags Ry R 74:1241-4 Je 28 '24; Same abr. Ry Age 76:1759-61 Je 21 '24

New type of turntables. Can Eng 47:147 Jl 8 '24; Same. Eng & Contr (Ry) 63:133-4 Ja 21 '25

Replacing engine turntables rapidly at Pennsylvania R.R. terminals. il Eng N 92:774-6 My 1 '24

Simple change converts turntable to three-point type. D: J. Jones. il diag Ry Age 78:1273-4 My 23 '25

Turntable replaced in less than two hours on Southern Pacific Ry. il Eng N 93:70 Jl 10 '24; Eng & Contr (Ry) 62:1104-6 N 19 '24

Turntables used for truck removal. il Elec Ry J 66:172 Ag 1 '25

TURNTABLES—*Continued*
Types of turntable developed for heavier locomotives. il diags Eng N 92:964-7 Je 5 '24
Unusually quick installation of longer turntable. H. S. Clarke. il plan Ry R 74:644-9 Ap 5 '24
See also Transfer tables

TURPENTINE
Action of turpentine on iron. S. I. Levy and R. Defries. Soc Chem Ind J 42:472 D 7 '23
Borneol in spruce turpentine. A. S. Wheeler and C. R. Harris. Am Chem Soc J 47:2836-8 N '25
Constituents of Indian turpentine from *pinus* longifolia, Roxb. J: L. Simonsen. Chem Soc J 123:2642-66 O '23
Manufacturing turpentine as a by-product in the sulphate pulp making process. O. W. A. Rodowski Paper Tr J 78:75-6 Ap 3 '24
New dyestuff from turpentine, bromo-aminocymene. A. S. Wheeler. Color Tr J 15:77 S '24
Production and croppage of turpentine and rosin. Manuf Rec 87:78 My 14 '25
Refining crude turpentine; patent. Chem Age 32:243 My '24
Sulfur-terpene substitution compounds. W: B. Pratt. Am Inst Chem Eng Trans v 15 pt 1: 367-78 '23; Same. Ind & Eng Chem 15:178-80 F '23; Discussion. Am Inst Chem Eng Trans v 15 pt 1:378-80 '23
Why and how we are merchandising turpentine. N. S. Greensfelder. Ptr Ink 133:95-6+ O 29 '25
See also Naval stores

Prices
Official prices for turpentine resumed in France. Chem & Met Eng 29:1073 D 10 '23

TURPENTINE substitutes
Mineral spirits specifications as the oil refiner sees them. D: R. Merrill. Oil Paint & Drug Rep 108:22 S 14 '25

TUT-ankh-amon, Tomb of
King Tut-ankh-amen's treasure. il Sci Am 131:24+ Jl '24

TWIN trail highway. See Pavements, Concrete—Trackways

TWINE
Binder twine, 1880-1924. il Dun's Int R 43:37-42 Ap '24
Thread, twine, cordage, and rope. E. Wigglesworth. Textile Inst J 16:P139-42 My '25
See also Sisal sales corporation

Manufacture
New twine mill of International harvester company now in operation at New Orleans. il Manuf Rec 85:77-8 Ja 24 '24
Polishing machine for twine; patent. diag Color Tr J 14:70 F '24

TWINS
Twins show familial tendencies to disease. il Nation's Health 7:340-1 My '25

TWISTING machines
Adjusting twister ring rails. diags Textile World 68:792-3 Ag 8 '25
Saco-Lowell high speed twister. il Textile World 66:2653 N 8 '24

TYING mark. See Trade marks

TYNDALL blue
Tyndall blue in solids. W. D. Bancroft. J Phys Chem 28:12-25 Ja '24

TYPE and type founding
American type design in the twentieth century. D. C. McMurtrie. 64p R. O. Ballou, Chicago '24
Brothers Voskens and their successors. D. C. McMurtrie. Inland Ptr 74:59-66 O '24
Creators of the new era in typefounding. H: L: Bullen. Inland Ptr 73:761-4 Ag '24
Dissertation upon English typographical founders and founderies. E: R. Mores. 103p Grolier club, New York '24
Early Korean movable type. C. S. Pil. Inland Ptr 75:410 Je '25
Effect of the composing machines upon the typefounding industry. H: L: Bullen. il Inland Ptr 73:595-7 Jl '24
Fitting copy to space, scientifically, in any size or face of type. A. R. Hopper. Inland Ptr 72:620-2, 795-6 Ja-F '24
Good typography versus freak types. E: E. Bartlett. Inland Ptr 75:51-2 Ap '25
Later history of the Luther typefoundry. D. C. McMurtrie. Inland Ptr 73:727-32 Ag '24
Point system, ancient and modern. N. C. Hawks. Inland Ptr 72:467-8 D '23
Popular types—their origin and use. J. L. Frazier. Inland Ptr 72:449-52, 617-19, 777-80, 945-50; 73:73-6, 241-4, 409-12, 577-8, 737-41, 897-900; 74:73-5, 233-5 D '23-N '24
Printing type specimens, standard and modern types. H: L: Johnson. 160p Graphic arts co., Boston '24
Some specimens of typography composed in Bodoni types. Ptg Art 43:452a-h Jl '24
Technique in typography. A. R. Hopper. Inland Ptr 76:66-8 O '25
Type lore; popular fonts of today, their origin and use. J. L. Frazier. 114p J. L. Frazier, Chicago '25
Types and typefounding in Germany. D. C. McMurtrie. Inland Ptr 73:564-9 Jl '24
Utility of Cooper black. J. L. Frazier. Inland Ptr 75:241-4 My '25
See also Advertisements—Typography; Printing—Specimens; Typesetting; Typesetting machines

TYPESETTING
However important, type isn't all. J. L. Frazier. Inland Ptr 75:745-6 Ag '25
Importance of the composing room. J: E. Shea and E. A. Gordon. Inland Ptr 75:430-2 Je '25
Setting initial letters correctly in text matter. R. F. Salade. Ptg Art 44:345-9 D '24
Setting type in mortises. R. F. Salade. Inland Ptr 75:928-30 S '25
"Think for yourself, John." A. E. Mowrey. Inland Ptr 75:223-4 My '25
Transition from hand-set to machine-set composition. H: L: Bullen. il Inland Ptr 72:603-6 Ja '24
What's the argument about? J. L. Frazier. Inland Ptr 75:913-15 S '25
See also Advertisements—Typography; Letterheads; Linotype; Printing; Type and type founding; Typesetting machines

Jobwork
Typography. J. L. Frazier. Published in monthly numbers of Inland printer

Layout
Layout desk for the average print shop. J: Friend. Inland Ptr 74:717 F '25
Value of practical layouts. E: C. Sterry. Inland Ptr 74:246-8 N '24

TYPESETTING machines
Effect of the composing machines upon the typefounding industry. H: L: Bullen. il Inland Ptr 73:595-7 Jl '24
Machine composition. E. M. Keating. Published in monthly numbers of Inland printer
New typesetting machine; Standard compositor. il Inland Ptr 75:782-3 Ag '25
Transition from hand-set to machine-set composition. H: L: Bullen. il Inland Ptr 72:603-6 Ja '24
Typary composing machine. W: Gamble. il Inland Ptr 75:943-5 S '25
Type-composing machine for lithographers. il Inland Ptr 75:599-600 Jl '25
Typograph and the monoline machines. H: L. Bullen. il Inland Ptr 73:65-7 Ap '24
See also Linotype; Monotype

TYPEWRITER ribbons

Specifications
United States government master specification for typewriter ribbons. U S Bur Stand Circ 186:1-4 '24

TYPEWRITERS

See also Corona typewriter company; Remington typewriter company

Advertising

Selling dealers by mail when consumer sales fall off; Shipman-Ward mfg. co. D. M. Hubbard. il Ptr Ink M 11:54+ N '25

History

Story of the typewriter, 1873-1923. 142p Herkimer county hist. soc., Herkimer, N.Y. '23

Manufacture

Adjustable trimming die for typewriter keybars. W: Denton. il Am Mach 62:703 Ap 30 '25

Fixtures used to build frames for noiseless typewriters. W. J. Bauer. il Am Mach 62: 483-6 Mr 26 '25

Milling curved slots in typewriter parts. J. W. Brhel. il Am Mach 60:815 My 29 '24

Tools for making a ribbon core. W: Denton. il diag Am Mach 62:819-20 My 21 '25

TYPEWRITING

Dualis method of touch typewriting. D: W. Frazier. 95p Lyons and Carnahan, New York '24

Learning to typewrite. W: F: Book. 463p Gregg '25

Motion study in typewriting. J. M. Lahy. 63p International labour office, Geneva '24

Psychology of skill, with special reference to its acquisition in typewriting. W: F: Book. 2d ed. 257p Gregg '25

Statistical typewriting. E. H. Brown. 77p Ronald press '24

TYPHOID fever

Changes in typhoid fever mortality at various age groups. Econ W n s 30:387 S 12 '25

Cross-connections and typhoid. Eng N 95: 166 Jl 30 '25

Court holds water company liable for typhoid death. G. D. Andrews. Eng N 92:814-15 My 8 '24

Excess typhoid attributed to shell oysters from one source; preliminary report of United States public health service. Eng N 94:325 F 19 '25

Heavy typhoid at Knoxville attributed to milk and spring water. diag Eng N 93:590 O 9 '24

Indicting the oyster industry; editorial. Eng N 94:302-3 F 19 '25

New York legislative committee report on recent excess typhoid. Eng N 94:325 F 19 '25

November typhoid epidemic in part of Chicago. diag maps Eng N 92:116-21 Ja 17 '24

Place responsibility of epidemics on city officials. H. F. Ferguson. il Nation's Health 7: 396-7 Je '25

Purification of water supply is greatest typhoid preventive. H. B. Cleveland. Nation's Health 6:670-2 O '24

Relation of improvements in water supplies to typhoid fever and other intestinal diseases. C. A. Holmquist. N E Water Works Assn J 38:237-43 S '24; Same abr. Eng & Contr (W W) 62:797-800 O 8 '24; Same, without table. Can Eng 48:385-6 Ap 7 '25

Serious typhoid epidemic caused by drain-sewer connection. il diags plan Eng N 92: 409-10 Mr 6 '24

Typhoid fever and cross-connections in Illinois. il diag Eng N 94:526-7 Mr 26 '25; Same. Sanitary & Heat Eng 103:291-2 My 1 '25

Typhoid fever epidemic caused by oyster-borne infection (1924-25). L. L. Lumsden and others. 102p U.S. Public health service, Washington '25

Typhoid fever in the large cities of the United States in 1924. Am Water Works Assn J 14:60-7 Jl '25

Typhoid from cross-connection at Everett. Eng N 93:59 Jl 10 '24

Typhoid in largest American cities, 1924. Eng N 94:944 Je 4 '25

Typhoid on Great Lakes vessels. G. H. Ferguson. Can Eng 46:462 Ap 22 '24

Typhoid traced to cross connections at Winona Lake, Ind. Eng & Contr (W W) 64: 858 O 14 '25

Typhoid, water supply, carriers and the courts. J. A. Tobey. Eng N 93:495-6 S 25 '24

Water-borne typhoid at Ramsay, Mich. Eng N 92:1105 Je 26 '24

See also Bacillus coli; Water—Bacteriology

TYPOGRAPHICAL union, New York. See New York typographical union

TYUYAMUNITE

Carnotite and tyuyamunite and their ores in Colorado and Utah. W. F. Hillebrand. Am J Sci 5th ser 8:201-16 S '24

New and known minerals from the Utah-Colorado carnotite region. F. L. Hess. U S Geol S Bul 750—D:73-8 '24

U

ULREY, C. T.

Portrait. Sci Am 130:157 Mr '24

ULSTER and Delaware railroad

Review of previous recommendation. Moody's Inv Serv 17:268 Ag 13 '25

ULTIMATE rational units. See Lewis's theory of rational units

ULTRA-CENTRIFUGE. See Centrifugal machines

ULTRA filtration. See Filters and filtration (technical chemistry)

ULTRAMARINE blue

Methods of analysis of ultramarine blue. Am Soc T M Standards 1923:80-2

ULTRAMICROMETER

Application of the ultramicrometer to the microbalance. R. Whiddington and F. A. Long. diags Philos Mag 6th ser 49:113-21 Ja '25

ULTRA-violet rays

Absorption of ultra-violet light by inorganic halides. F: H. Getman. diags J Phys Chem 29:853-64 Jl '25

Absorption of ultra-violet light in dilute solutions. C. J. W. Grieveson. diags Philos Mag 6th ser 49:1006-20 My '25

Absorption spectra of copper, silver and gold vapors in the ultra-violet. R. V. Zumstein. Phys R 25:523-6 Ap '25

Action of ultra-violet light on dyestuff-fibre systems; abstract. P. Heermann. Soc Dyers & Col J 41:227 Je '25

Action of ultraviolet light upon carbon dioxide and water. C. W. Porter and H. C. Ramsperger. Am Chem Soc J 47:79-82 Ja '25

Die analysen-quarzlampe. L. J. Busse. il Elektrotech Zeit 46:1185-7 Ag 6 '25

Chemical action of ultraviolet rays. C. Ellis, A. A. Wells and N. Boehmer. 362p Chemical catalog co. '25

Chemical method for the standardisation of ultra-violet light. J. E. Moss and A. W. Knapp. diag Soc Chem Ind J 44:453-6 S 11 '25

Effect of certain paint films on ultra-violet light. R. L. Hallett. il Am Soc T M Pro 23 pt 2:379-89; Discussion. 390-5 '23

Effect of ultra-violet light on dried hydrogen and oxygen. H. B. Baker and M. Carlton. Chem Soc J 127:1990-2 S '25

Effect of ultra violet rays. P. Heermann. Textile World 67:4150+ Je 27 '25

Extension of the X-ray-doublet laws into the field of optics. I. S. Bowen and R. A. Millikan. Phys R 24:209-22 S '24

Extreme ultra-violet spectra. R. A. Millikan and I. S. Bowen. il Phys R 23:1-34 Ja '24

Influence of the pH upon the ultraviolet absorption spectra of certain cyclic compounds. W. Stenström and M. Reinhard. J Phys Chem 29:1477-81 N '25

ULTRA-violet rays—*Continued*
Invisible radiation from illuminants; a review of the facts with regard to ultra-violet and infra-red rays. J. W. Ryde. Elec R (Lond) 96:884-6 Je 5 '25
Isomerism of the oximes; the action of ultra-violet light on aldoximes and their derivatives. O. L. Brady and G. P. McHugh. Chem Soc J 125:547-54 Mr '24
Observations of spectro-photometric measurements of paint vehicles and pigments in the ultra-violet. G: F. A. Stutz. J Fr Inst 200: 87-102 Jl '25
Origin of certain spectral lines hitherto attributed to oxygen. W. Jevons. Philos Mag 6th ser 47:586-90 Mr '24
Oxalic acid-uranyl sulfate ultraviolet radiometer. W: T. Anderson, jr. and F: W. Robinson. Am Chem Soc J 47:718-25 Mr '25
Positive rays produced by ultra-violet light. L. A. DuBridge. diags Phys R 25:201-7 F '25
Radiometric investigation of the germicidal action of ultra-violet radiation. W. W. Coblentz and H. R. Fulton. il U S Bur Stand Sci Pa 495:641-80 '24
Ray of life and death; the ultra-violet ray sterilizer. A. J. Lynch. il Dom Eng 106:30+ Ja 12 '24
Review of literature on ultra-violet therapy. A. W. Hull. il Gen Elec R 28:790-7 N '25
Some optical properties of white paint pigments in the ultra-violet spectrum. A. H. Pfund. diags Am Soc T M Pro 23 pt 2:369-78 '23
Les spectres d'absorption des extraits tannants dans l'ultra-violet. A. de la Bruère. il diags Chimie & Ind 11:8-16 Ja '24
Synthetic rubber by ultra-violet light. diag India Rubber W 71:280 F '25
Ultra-violet absorption spectrum of furfural. F: H. Getman. il J Phys Chem 28:397-401 Ap '24
Ultraviolet microscope aids in cancer research. il Nation's Health 7:712 O '25
Ultra-violet rays used to test body fabrics and finishes. W. L. Carver. il chart diag Automotive Ind 50:1011-14 My 8 '24
Ultra-violet reflecting power of some metals and sulphides. W. W. Coblentz and C. W. Hughes. U S Bur Stand Sci Pa 493:577-85 '24
Use of ultra violet light in deciphering damaged documents. il Paper Tr J 78:78 Ap 3 '24
What is the ultra violet ray? Sanitary & Heat Eng 101:38+ Ja 25 '24

ULTRA-violet spectrum. See Spectrum, Ultra-violet

UNCLAIMED freight. See Railroads—Freight

UNCONFORMITY (geology)
Pre-triassic unconformity in southern Nevada. C. R. Longwell. diags maps Am J Sci 5th ser 10:93-106 Ag '25

UNDECOIC acid
Rhythmic crystallisation of undecoic acid. W. E. Garner and F. C. Randall. il Chem Soc J 125:369-72 F '24

UNDERFEED stokers. See Stokers, Mechanical

UNDERGROUND railways. See Subways

UNDERGROUND water. See Water, Underground

UNDERPINNING. See Shoring and underpinning

UNDERTOW
Is the steady undertow a myth? Sci Am 133: 124-5 Ag '25

UNDERWEAR
Cloudy outlook for knit underwear. Textile World 67:1013+ F 7 '25
Consider the knit underwear business. L: R. Keeffe. Textile World 67:854 F 7 '25
Fibre needs for underwear. W: Davis. il Textile World 65:371+ Ja 19 '24
Glove fabric underwear and hosiery. G. R. Merrill. il Textile World 67:1963+ Mr 21 '25
Muslin underwear and petticoats. F. J. Ringo. 121p Shaw '25
Next six months and the hosiery and underwear trades. G: E. MacIlwain. Textile World 67:2555+ Ap 11 '25
Papers and reports at the convention of the Associated knit underwear manufacturers of America. Textile World 65:3616+ My 31 '24
Should fall underwear prices be reduced? Textile World 65:2111+ Mr 29 '24
Underwear problems are many. Textile World 65:937+ F 2 '24
See also Hosiery

Advertising
Rayon underwear story now put up to consumer. Ptr Ink 133:33-4+ N 5 '25
Staging a come-back in a neglected market. R. Dickinson. Ptr Ink 125:113-14+ D 20 '23

Manufacture
Controlled production of knit goods; William Carter company. H. C. Gates. Management & Adm 9:343-6 Ap '25

Standards
Report on specifications of measurements for men's, boys' and children's union suits. diag Textile World 67:3426-7 My 23 '25
Standardization of underwear. Textile World 64:3015-16 N 17 '23

UNDERWOOD, Oscar W.
Business and Senator Underwood. J: C. O'Laughlin. por Nation's Business 12:32-3 Ap '24

UNDERWRITERS' laboratories
Some structural details of the Underwriters' laboratory addition, Chicago. diags plan Eng & Contr (Bldgs) 61:1153-9 My 28 '24
Underwriters' laboratories. D. Pierce. Spectator 113:52+ sec 2 Jl 17 '24
Year 1923 at Underwriters' laboratories. Safety Eng 47:65-9 F '24

UNEMPLOYMENT
Advertising helps prevent unemployment. R. Dickinson. Ptr Ink 132:121+ Ag 27 '25
Analyzing unemployment. Blast F & Steel Pl 12:515-16 N '24
Excessive irregularity of employment. Ry Age 75:1142-3 D 22 '23
Increased production—decreased unemployment. Elec R (Lond) 95:727-9 N 14 '24
Irregularity of employment as a factor in high labour costs. W: S. Parker. Int Labour R 9:361-71 Mr '24
Problem of unemployment among intellectual workers abroad. Monthly Labor R 19:169-82 Jl '24
Reports and recommendations of a committee of the President's conference on unemployment. Review by W. E. Hotchkiss. Taylor Soc Bul 9:86-9 Ap '24
Seasonal operation in the construction industries, the facts and remedies; report and recommendations of a committee of the President's conference on unemployment. 213p McGraw-Hill '24
Unemployment and child welfare. E. O. Lundberg. 173p U.S. Children's bur., Washington '23; Abstract. Monthly Labor R 18:363-4 F '24
Unemployment as a result of overdevelopment of industry. J. J. Davis. Monthly Labor R 21:694-8 O '25
Unemployment in foreign countries. Monthly Labor R 19:1119-29; 20:373-83, 1108-21; 21: 383-96 N '24, F, My, Ag '25
Unemployment in its national and international aspects. 227p [bibliog. p. 224-7] 20c International labour office, Geneva '24
Unemployment in its relation to engineering production costs. Engineering 117:308-9 Mr 7 '24
Unemployment, its cause and cure. A. Hook. 217p Labour publishing co., ltd., London '24
Unemployment, 1920-1923. 154p 60c International labour office, Geneva '24
Unemployment problem. E. D. Sebring. Taylor Soc Bul 9:177-85 Ag '24

UNEMPLOYMENT—*Continued*
Wage standards and unemployment. Cassier's Ind Management 11:209-10 Ap 17 '24

See also Employment agencies; Labor supply

Relief measures

Activities of special bureau for relief work for women in Finland, 1918 to 1923. Monthly Labor R 18:1103-4 My '24
Bank credit and unemployment. Int Labour R 9:78-94 Ja '24
Can business prevent unemployment. S. A. Lewisohn and others. 226p [bibliog. p. 217-26] Knopf '25
Methods used to relieve unemployment in Great Britain. C: E. Lyon. Econ W n s 28:725-6 N 22 '24
Prevention of unemployment, with special reference to Great Britain. Int Labour R 10:653-64 O '24
Railway executives plan to stabilize employment. Ry Age 77:539-40 S 27 '24; Ry R 75: 485-6 S 27 '24
Regularization of employment. H. Feldman. 437p Harper '25
Stabilizing railway employment; editorial. Ry Age 77:530-1 S 27 '24
To cut the waste of unemployment. H: S. Dennison. Nation's Business 12:32-4 O '24
Unemployment agreement in the Chicago men's clothing industry; unemployment fund. W. E. Hotchkiss. Ann Am Acad 111: 372-7 Ja '24
Unemployment relief. Economist 100:1126-8 Je 6 '25

See also Farms, Industrial; Insurance, Unemployment; Winter construction

Statistics

Employment and unemployment. Published in monthly numbers of International labour review and in Monthly labor review
Enquiry by sample: an experiment and its results. J: Hilton. Roy Statis Soc J 87:544-61; Discussion. 562-70 Jl '24
Methods of statistics of unemployment. 66p International labour office, Geneva '25
Unemployment in 1924 and the beginning of 1925. Int Labour R 12:186-224 Ag '25

Canada

National conference regarding winter employment in Canada. 138p Canada. Dept. of labour, Ottawa '24

Europe

Economic and financial progress in Europe, 1923-24. J. S. Davis. R Econ Statis 6:211-12 Jl '24

Germany

German unemployment statistics. Economist 99:sup31 O 25 '24
State of unemployment in Germany. Annalist 22:726+ D 3 '23

Great Britain

Analysis of unemployment. Economist 101: 529-30 O 3 '25
Britain and her plague of doles. P. W. Wilson. il Nation's Business 13:52+ O '25
Britain's unemployment problem. F. C. Chappell. Annalist 22:695+ N 26 '23
Comparative loss of time through strikes and unemployment, Great Britain. Monthly Labor R 20:1319-20 Je '25
Doles—Britain's "old man of the sea." W. I. King. Annalist 26:115 Jl 31 '25
Economic position of Great Britain. E. Crammond. Engineering 118:617-18 O 31 '24
Effect on the English worker of unemployment and unemployment relief. Monthly Labor R 17:1369-72 D '23
Effects of the new unemployment act. Engineering 118:332 S 5 '24
Employment and unemployment in Great Britain in 1924. Econ W n s 29:483 Ap 4 '25
Financial aspects of unemployment in England. C: E. Lyon. Ann Am Acad 111:363-71 Ja '24
Is unemployment inevitable? an analysis and a forecast. 388p Macmillan '24; Reviews. Engineering 118:555-6 O 17 '24; Econ J 34: 602-6 D '24
Mond scheme of maintenance with work. A. Mond. Gas J (Lond) 170:854-6 Je 17 '25
Prevention of unemployment, with special reference to Great Britain. Int Labour R 10:653-64 O '24
Study of claimants to unemployment benefit in Great Britain. Monthly Labor R 21:591-2 S '25
Subsidy for employment. Engineering 119: 515-16 Ap 24 '25
Unemployed. Economist 100:1009-10 My 23 '25
Unemployment; a study of causes, palliatives and remedies. W: A. Appleton. 157p Hodder and Stoughton, London '24
Unemployment benefit in Great Britain. Int Labour R 10:296-9 Ag '24
Unemployment relief in Great Britain. F. Morley. [bibliog. p. 195-9] 203p Houghton '24

Hungary

Unemployment in Hungary; its causes and cure. J. Vago. Int Labour R 12:346-71 S '25

Illinois

Employment in Illinois factories dropping rapidly. Comm & Fin Chr 119:137 Jl 12 '24

Jugoslavia

Labour market in the Kingdom of the Serbs, Croats, and Slovenes from 1919 to 1923. M. Nedelkovitch. Int Labour R 8:696-701 N '23

New York (state)

Factory employment in New York state. Comm & Fin Chr 118:2888; 119:138, 1682-4 Je 14, Jl 12, O 11 '24

Norway

Unemployment in Norway, 1919-20 to 1923-24. Monthly Labor R 20:387-9 F '25
Unemployment relief and employment exchanges in Norway in 1922-1923. Int Labour R 11:252-4 F '25

Scotland

Unemployment and its effects in Scotland in 1923. Monthly Labor R 19:648-50 S '24

Switzerland

Swiss federal law on unemployment insurance. Monthly Labor R 20:1122-3 My '25

United States

Decrease in employment and pay rolls in selected industries in the United States in April 1924. Comm & Fin Chr 118:2388-91 Je 14 '24
Factory employment below normal level. W: Berridge. Annalist 25:33 Ja 5 '25
Factory unemployment at a critical stage. W: A. Berridge. Annalist 24:7-8 Jl 7 '24
Industrial employment and unemployment in the United States in 1924 compared with 1923. Econ W n s 28:913 D 27 '24
New study of the problem of unemployment in the United States. A. R. Marsh. Econ W n s 28:471-2 O 4 '24
Recent employment statistics. Published in monthly numbers of Monthly labor review
Trend of employment. Comm M 7:23-30 Jl '25; Same. Econ W n s 30:153-5 Ag 1 '25
Unemployment greater than at any time since fall of 1922. Comm & Fin Chr 118:3021-2 Je 21 '24

UNEMPLOYMENT insurance. See Insurance, Unemployment

UNFAIR competition. See Competition, Unfair

UNIFLOW engines. See Steam engines—Uniflow engines

UNIFORMS
Uniformed driver is a business builder. il Bus Transportation 4:538-40 N '25

UNION college, Schenectady, N.Y.
Engineering at Union college. F. P. McKibben. J Eng Educ 15:733-4 Je '25

UNION college, Schenectady, N.Y.—*Continued*
History of Union college. C: N. Waldron. il J Eng Educ 15:586-92 Ap '25
Union college and the Jackson garden. R: Schermerhorn, jr. il plan Am Arch 124:541-4 D 19 '23

UNION indemnity company
Union indemnity seeks court approval of deal with Northwestern. Spectator 115:21-2 Jl 2 '25

UNION oil company of California
Union of California report shows better conditions on Coast. R. B. Stafford. Nat Pet N 17:78+ Mr 4 '25

UNION Pacific railroad
Annual report, 27th, 1923. Comm & Fin Chr 118:1788-92 Ap 12 '24; Same. Ry Age 76:1011-14 Ap 19 '24
Annual report, 28th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2283-6 My 2 '25; Same cond. Ry Age 78:1115-18 My 2 '25
Epic of the overland. R. L. Fulton. 109p A. M. Robertson, San Francisco '24
Financial condition. Moody's Inv Serv 17:162 My 14 '25
History of the Union Pacific; an economic and financial survey. N. Trottman. 412p Ronald press '23
Industrial sites and trackage. W. R. Armstrong. map Eng & Contr (G C) 64:651-4 S 16 '25
New lines in Oregon recommended to I.C.C.; examiner suggests that Southern Pacific lines be transferred to Union Pacific operation. Ry Age 77:749-51 O 25 '24
Union Pacific builds 95-mile Idaho-Nevada line. il diag Eng N 94:390-1 Mr 5 '25
Union Pacific centralizes control of stores operations. il map Ry Age 78:1146-50, 1205-9, 1332-6 My 9-16, 30 '25
Union Pacific loop puts Boise, Idaho, on main line. il map Eng N 92:1014-16 Je 12 '24
Union Pacific pays fixed charges from investments. map Ry Age 76:991-3 Ap 19 '24
Union Pacific railroad company. Moody's Inv Serv 16:257-9 Je 26 '24

UNION steel products company, ltd.
How does a business grow? D. Gridley. Ptr Ink 129:161-2+ N 27 '24

UNIONTOWN, Pennsylvania

Streets
Street widening in Uniontown. W. L. Dunn. il Pub Works 55:227-8 Jl '24

UNIT heaters. See Heaters; Steam heaters

UNITED fruit company
Annual report for year ended Dec. 31, 1924. Comm & Fin Chr 120:696 F 7 '25
United fruit company. Moody's Inv Serv 16: 265-8 Jl 3 '24

UNITED mine workers of America
Convention, 29th, Indianapolis, Jan. 21-Feb. 2. Coal Age 25:177-9, 213-16 Ja 31-F 7 '24
Miners' union. S. A. Hale. chart map Coal Age 28:417-20, 459-62, 491-5, 594-8 S 24-O 8, 29 '25 (to be cont)
Proceedings of the 29th consecutive and 6th biennial convention, held in the city of Indianapolis, Ind., Jan. 22-Feb. 2, 1924, inclusive. 3v Bookwalter-Ball-Greathouse ptg. co., Indianapolis '24
United mine workers plan extension of West Virginia strike area in campaign to unionize entire state. Coal Age 28:23 Jl 2 '25
See also Coronado coal company case

UNITED railway investment company
United railway investment company stocks. Moody's Inv Serv 16:463 D 26 '24

UNITED refrigeration and terminals company
Post-Volstead evolution. il plan Power 62:82-6 Jl 21 '25

UNITED STATES
Re-discovering America; by a returned business man. Ptr Ink M 11:35-6+ N '25
See also Electric plants (central stations)—United States; Engineering—United States; Hydroelectric plants—United States; Insurance, Life—United States; Insurance companies—United States; Irrigation—United States; Labor and laboring classes—United States; Labor laws and legislation—United States; Land tenure—United States; Money—United States; Pacific coast; Radio stations—United States; Railroads—United States; Roads—United States; Street railroads—United States; Transportation—United States; Waterways—United States

Aeronautical board
Aeronautical board is reorganized. Aviation 17: 807 Jl 28 '24

Aeronautics, Department of (proposed)
Chart showing how a Department of aeronautics would be organized and function. Aviation 17:1248 N 10 '24

Agricultural economics, Bureau of
Bureau of agricultural economics. L. S. Tenny. Textile World 67:2537+ Ap 11 '25
Uncle Sam knows a thing or two about conducting surveys. Ptr Ink 131:125-6+ Je 4 '25

Agriculture, Department of
Research program of the Department of agriculture. E. D. Ball. Am Inst Chem Eng Trans v 15 pt 2:151-7 '23; Same. Chem Age 31:565-7 D '23
Taking the Department of agriculture to the people. C. B. Sherman. il Am Bankers Assn J 16:640-1 Ap '24

Air service
Administration favors greater aviation defense; will the airship supersede the battleship? C. H. Butman. il Aviation 17:1046-7 S 29 '24
Air appropriations in the 1924-25 budget. Aviation 16:59 Ja 21 '24
Air power. J. Pershing. il Aviation 18:11 Ja 5 '25
Air service appropriations debate. Aviation 18:74-7 Ja 19 '25
Air service wants all aerial coast defense. Aviation 16:530-1 My 19 '24
Arguments in favor of a United air force. il Aviation 18:78-9 Ja 19 '25
Aviation from the standpoint of the war department. D. F. Davis. Mech Eng 46:931 D '24
Aviation inquiry begun. Bradstreet's 53:625 S 26 '25
Budget allows $65,000,000 for the Air services in 1925-26. Aviation 17:1362, 1390-1 D 8-15 '24
Col. Mitchell's statements on govt. aviation. Aviation 19:318-20 S 14 '25
Congressional hearings on the air services. Aviation 16:479-80 My 5 '24
Expenditures of government with aircraft industry. F. H. La Guardia. Aviation 18:98-104 Ja 26 '25
15th anniversary of our air service. E. L. Jones. il Aviation 17:830-1, 863-5 Ag 4-11 '24
General Patrick on independent air force; separation from army now, unification with naval aviation ultimately. Aviation 18:662-3 Je 15 '25
Independent air force. C. G. Grey. Aviation 17:1246-7 N 10 '24; Discussion. 17:1391 D 15 '24
Mitchell plan. Aviation 19:502-3 O 12 '25
N. Y. World probes government air situation. Aviation 17:1331-3, 1366-7 D 1-8 '24
President Coolidge appoints Air board. Aviation 19:354 S 21 '25
President's Air board hearings. Aviation 19: 385, 422, 501 S 28-O 12 '25
$6,000,000 error in air service costs. Aviation 17:861-2 Ag 11 '24
$67,241,327.95 spent by U.S. on air services in 1923. Aviation 16:446, 474-5 Ap 28-My 5 '24; Discussion. R. Upson. 16:531 My 19 '24
Suggested national air policy. Aviation 17: 945 S 1 '24; Discussion. 17:966, 992, 1459-60; 18:344-5 S 8-15, D 29 '24, Mr 30 '25

UNITED STATES—Air service—*Continued*
U.S. to buy less than 500 war planes in 1925. Aviation 18:210 F 23 '25

See also Postal service, Aerial

Air service, Army

Air service reserve of southern California. C. C. Moseley. Aviation 15:801-2 D 31 '23
Annual report of the Chief of air service, 1923-24. il Aviation 17:1392-4 D 15 '24
Army air service costs once more aired. Aviation 18:6-8 Ja 5 '25
Curtiss co. offers plant for McCook field. il diag Aviation 16:476-8 My 5 '24
Indictment and a warning. Aviation 16:86-8 Ja 28 '24
Official photographs of the new Army air service uniform. il Aviation 19:498-9 O 12 '25
Outline of the organization at McCook Field. Soc Auto Eng J 16:13-14 Ja '25
Reserve officers make cross country flight. S. D. Day. Aviation 17:937 S 1 '24
United States army air service, 1922-1923; extracts from the annual report of the Chief of air service. Aviation 15:650-2 N 26 '23
U.S. army air service training camps. Aviation 19:256-7 Ag 31 '25
War contracts investigation. Aviation 16:507 My 12 '24

Air service, Militia

National guard air service. Aviation 15:711 D 10 '23
N.Y. national guard air service. Aviation 16: 570 My 26 '24

Air service, Navy

Admiral Moffett claims all sea flying for navy. Aviation 16:558-60 My 26 '24
Admiral Moffett replies to accusations. il Aviation 19:353 S 21 '25
Aircraft defense more expensive than battleships? il Aviation 18:19 Ja 5 '25
Arctic exploration by aircraft. il map Sci Am 130:152-3 Mr '24
Captain Westervelt's plan. Aviation 19:636 N 2 '25
Material condition of the U.S. fleet. R. E. Coontz. Aviation 16:571 My 26 '24
Naval aircraft investigation; finish fight looms in battleship-airplane controversy. M. H. McIntyre. Aviation 17:1249-50 N 10 '24
Naval reserve aviation policy. Aviation 16: 256-7 Mr 10 '24
Report of the Naval Arctic air board; plan calls for use of Shenandoah, six planes, mooring masts and two airship tenders. Aviation 16:65-6 Ja 21 '24
Secretary Denby's annual report. Aviation 15: 712 D 10 '23
Southern cruise of the naval air squadrons. il Aviation 16:586-7 Je 2 '24
Special naval board's report; result of development of aviation on the development of the navy. Aviation 18:238-40 Mr 2 '25; Engineering 119:390-1 Mr 27 '25
United States naval air service, 1922-23. il Aviation 16:34-7 Ja 14 '24
Where the money goes; naval aviation costs about $35,000,000 a year. Aviation 16:509-10 My 12 '24

Appropriations and expenditures

Air appropriations in the 1924-25 budget. Aviation 16:59 Ja 21 '24
Air service appropriations debate. Aviation 18:74-7 Ja 19 '25
Appropriations of sixty-eighth Congress. Comm & Fin Chr 120:1839-41 Ap 11 '25
Appropriations recommended for I.C.C. and Labor board. Ry Age 77:1020 D 6 '24
Budget allows $65,000,000 for the Air services in 1925-26. Aviation 17:1362 D 8 '24
Call on Congress to spend. W: P. Helm, jr. Nation's Business 12:16-17 My '24
Expense of government economy. C. Thomas. Nation's Business 12:44+ Ap '24
Federal budget allows increase to Chemical warfare service. Chem & Met Eng 31:907 D 8 '24
Four years of fiscal progress. Comm M 7:26-30 Ag '25
How we can save $300,000,000. C: Curtis. Nation's Business 13:24-5 O '25
How your income tax was spent. E. Spring. Comm & Fin 14:506 Mr 18 '25
It's spending not taxing that counts. C. C. Plehn. il Nation's Business 12:13-15 My '24
National economy; results attained by the Bureau of the budget after four years. Index p 14-15 Ap '25
$6,853,962 recommended for I.C.C. Ry Age 78:237-8 Ja 17 '25
$67,241,327.95 spent by U.S. on air services in 1923. Aviation 16:446, 474-5 Ap 28-My 5 '24; Discussion. R. Upson. 16:531 My 19 '24
$22,000,000 more for aircraft carriers. Aviation 18:186 F 16 '25
War department approves river, harbor allotments. Eng N 93:32 Jl 3 '24
Where the money goes; naval aviation costs about $35,000,000 a year. Aviation 16:509-10 My 12 '24
Wide open purse and high local taxes. A. Capper. Nation's Business 13:16-17 Mr '25

See also Budget—United States

Army

Health of the army. F. L. Hoffman. Spectator 114:31-3 Ja 22 '25

See also United States—Air service, Army

Chemical warfare officers' reserve corps

Chemical warfare officers' reserve corps. Chem Age 32:337-8, 389-91 Ag-S '24

Railway engineer batallions

Railway organization of the United States army. A. W. Pence. Ry R 75:115-21 Jl 26 '24

Reserve officers training corps

Making ordnance reserve officers at Cornell. L. J. Meyns. il Sibley J 39:355-6+ Je '25
Report of committee no. 21 on R.O.T.C. J Eng Educ 15:542-7 Mr '25

Army industrial college

Preparedness to save money and time. L. W. Moffett. il Iron Age 115:44-5 Ja 1 '25

Board of tax appeals

Board of tax appeals and the certified public accountants. J. G. Korner, jr. J Account 40:321-8 N '25
Board of tax appeals has heard 190 cases. C: D. Hamel. Am Bankers Assn J 17:389+ D '24
Board of tax appeals under way. Am Ind 25: 10+ Ag '24
Board of tax appeals urged by under-secretary Winston to give speedy decisions—new division of review created by Internal revenue bureau. Comm & Fin Chr 119:412-13 Jl 26 '24
Federal tax board of appeals. F. Lowson. J Account 37:183-6 Mr '24
Giving the tax payers a fair show. J: C. Gall. Am Ind 25:9-11 Ap '25
New body reviews taxpayers' cases before assessment. Index p 3-4 Ap '25
Practice before the United States board of tax appeals. J. G. Korner, jr. J Account 40:1-14 Jl '25
Procedure and practice before the United States Board of tax appeals. G: E. Holmes and K. Brewster. 225p J. Byrne & co., Washington, D.C. '25

Boundaries

Treaty adjusts boundaries. Can Eng 49:321 S 15 '25

Capitol

Heating and ventilating the United States capitol. Heat & Ven 22:61-2 Mr; 69-71+ Ap; 69-71 N '25

Census, Bureau of

Annual report of the Director of the census. Comm & Fin Chr 119:2489-90 N 29 '24
Increasing sales with the aid of the Census bureau. J. True. Ptr Ink M 8:60+ My '24

UNITED STATES—Census, Bureau of—*Cont.*
Reorganization of statistical bureaus beset by thorny path. P. Wooton. Coal Age 25:952 Je 26 '24

Chemistry, Bureau of

Advertising opportunities that abound in the waste products of industry; help afforded at Washington. Ptr Ink 126:97-8+ Mr 20 '24
Work of the Bureau of chemistry. C. A. Browne. Am Inst Chem Eng Trans v 15 pt 2:159-65; Discussion. 165-8 '23

Carbohydrate laboratory

Studying the problems of sugar factory operation. F. W. Reynolds. il diags Chem & Met Eng 30:585-7 Ap 14 '24

Coal commission

Few comments on the work and reports of the U.S. Coal commission. E. W. Parker. Coal Age 25:493-7, 566-8 Ap 3, 17 '24
Figures tell story of coal industry's struggle to adjust itself following the war. D: L. Wing. Coal Age 27:635-7 Ap 30 '25
Final report of the United States coal commission. Monthly Labor R 17:1007-14 N '23
Recommendations of the United States coal commission. E: E. Hunt. Ann Am Acad 111:249-55 Ja '24

Coast and geodetic survey

Geodetic survey aids non-federal agencies in boundary disputes. W: Mussetter. il map Eng N 93:458-61 S 18 '24
Mapping of country as protection. Am Ind 25: 14 Mr '25
Report of the director to June 30, 1923. Eng & Contr (Ry) 61:836 Ap 16 '24
Tidal and current work of Coast and geodetic survey. G. T. Rude. il diags J Fr Inst 197: 73-97, 217-51 Ja-F '24

Coast guard

Charting the ice-fields; how life and property is protected by radio-equipped coast guard cutters. S. R. Summers. il Wireless Age 12:42-3+ Ap '25
Standards, engine requirements and the proposed Coast-guard fleet discussed by S.A.E. diags Soc Auto Eng J 14:223-5 F '24

Commerce

American foreign trade in 1923. Comm M 5: 3-12 Mr '24
Balance of international payments of the United States in 1923. R. S. Tucker. U S Bur For & Dom Com Trade Information Bul 215:1-19 '24
Balance of international payments of the United States in 1924. R. S. Tucker. U S Bur For & Dom Com Trade Information Bul 340:1-28 '25
Balance of payments of the United States and of England in 1924. Fed Res Bul 11: 406-7 Je '25
Changes in exports and imports 1923 to 1924. Nat City Bank p 50-1 Mr '25
Classified statistics of the foreign commerce of the United States in 1923. Econ W n s 27:189-90 F 9 '24
Classified statistics of the foreign commerce of the United States in December and during 1924. Econ W n s 29:184-5 F 7 '25
Classified value figures of the foreign commerce of the United States in 1924-1925. Econ W n s 30:222-3 Ag 15 '25
Commerce yearbook 1922. 692p U.S. Bur. for. & dom. com., Washington '23
Commerce yearbook 1923. 722p U.S. Bur. for. & dom. com., Washington '24
Country's foreign trade. Comm & Fin Chr 118:1332 Mr 22 '24 [continued monthly]
Country's foreign trade in 1923; editorial. Comm & Fin Chr 118:1193-6 Mr 15 '24
Cross currents in foreign trade. Bradstreet's 53:5 Ja 3 '25
Cross-currents in foreign trade. C: F. Speare. Am Bankers Assn J 16:744-5 My '24
Features of foreign trade. Bradstreet's 52:205 Mr 29 '24
52-year record of exports and imports from the United States, 1871-1923, arranged alphabetically by names of products. Oil Paint & Drug Rep 105:12+ Mr 20 '24
53-year record of exports and imports from the United States, 1871-1924, arranged alphabetically by names of products. Oil Paint & Drug Rep 107:20+ Mr 26 '25
Fiscal year in foreign trade. Bradstreet's 52: 413-14 Je 28 '24
Fiscal year's foreign trade. Bradstreet's 52:461-2 Jl 19 '24; Econ W n s 28:186-7 Ag 9 '24; Manuf Rec 86:85 Ag 7 '24
Foreign trade and increased national wealth. H. T. Collings. Ann Am Acad 115:241-7 S '24
Foreign trade during 1924. Index p 17-18 F '25
Foreign trade of the United States in the calendar year 1923. U S Bur For & Dom Com Trade Information Bul 225:1-109 '24; Summary. Am Mach 60:962 Je 26 '24
Foreign trade of the United States in the fiscal year 1923-24. U S Bur For & Dom Com Trade Information Bul 276:1-43 '24
Foreign trade of the United States, 1924. U S Bur For & Dom Com Trade Information Bul 332:1-91 '25
Foreign trade of the United States in the fiscal year, 1924-25. U S Bur For & Dom Com Trade Information Bul 364:1-24 '25
Foreign trade of the United States fiscal year ended June 30, 1925. Nat City Bank p 144-5 S '25
Further light on foreign trade. Bradstreet's 52:493 Ag 2 '24
Goods across the water: the give and take of mutually beneficial trade between nations. E. Howard. Econ W n s 29:760-2 My 30 '25
Government strikes trial balance showing invisible items of country's foreign trade for 1923. Manuf Rec 85:79-80 Ap 10 '24; Same abr. Econ W n s 27:515 Ap 12 '24
Highlights of our world trade in 1923. chart Nation's Business 12:56+ My '24
History of commerce of the United States. C. Day. 394p Longmans '25
Imports rose with the tariff. Am Ind 24:47 F '24
Income of the American people and the ratio of foreign to domestic trade, 1890-1924. B: M. Anderson, jr. 14p Chase national bank, 57 Bway., New York '25
Invisible items in international trade. Bankers M 108:401-3 Mr '24
Invisible items in the foreign trade of the United States, January to June, 1924. R. S. Tucker. Econ W n s 28:224-5 Ag 16 '24
Invisible trade. Index p 11-13 Ap '24
Is our trade going the way of Great Britain's? T. R. Paul. Annalist 25:415-16 Mr 23 '25
Leading items in foreign trade for two years. Bradstreet's 52:125-6 F 23 '24
New diplomacy of trade promotion. C: Hodges. Annalist 22:792+ D 17 '23
1924 overseas trade. Am Ind 25:27 Ap '25
Our competitors and markets. A. W. Lahee. 477p Holt '24
Our foreign trade in a favorable position. H. Hoover. Annalist 23:13+ Ja 7 '24
Our foreign trade outlook. Moody's Inv Serv 17:221-3 Jl 2 '25
Our visible and invisible trade in 1924. Manuf Rec 87:87-8 My 14 '25
Preliminary figures of the foreign commerce of the United States in June and for the fiscal year 1923-1924. Econ W n s 28:85-6 Jl 19 '24
Preliminary figures of the foreign commerce of the United States in December and during 1924. Econ W n s 29:121 Ja 24 '25
Preliminary figures of the foreign commerce of the United States in June and the fiscal year 1924-1925. Econ W n s 30:85 Jl 18 '25
Selling in Southeastern Europe; U.S. trade with Austria and her neighbors. F: Simpich. Nation's Business 12:34-5 Mr '24
Some details of the fiscal year's trade, 1924-25. Bradstreet's 53:497-8 Ag 1 '25

UNITED STATES—Commerce—*Continued*
Some features of 1924 foreign trade. Bradstreet's 53:83-4 Ja 31 '25
Some features of the year's foreign trade. Bradstreet's 53:433-4 Jl 4 '25
Star of hope in foreign trade. C. C. Martin. Burroughs Clearing House 9:5-8+ Ja '25
Statistical summary of commerce and industry; 1920-1924. Survey of Cur Business 42: 7-8 F '25
Total values of imports and exports of merchandise by grand divisions and principal countries for December 1922 and 1923 and twelve months, 1922 and 1923. Comm & Fin Chr 118:491 F 2 '24 [continued monthly]
Trade of the United States in 1923 according to the international statistical classification. U S Bur For & Dom Com Trade Information Bul 256:1-9 '24
Trade of the United States with foreign countries. Fed Res Bul 10:479-81 Je '24; Same. Comm & Fin Chr 119:18-19 Jl 5 '24
United States trade with Europe shows big increase. Bankers M 111:369+ S '25
What effect—if any—will foreign debt repayments have on the domestic sales situation? interview with G: E. Roberts. R. W. Johnson. por Sales Management 9:569-70+ O 31 '25

See also Aeronautics, Commercial—United States; Automobile industry and trade—United States; Chemical industries—United States; Cotton trade—United States; Dye industry—United States; Export trade; Imports; Interstate commerce; Interstate commerce commission; Merchant marine—United States; Paper industry and trade—United States; Rubber industry and trade—United States; Shipping—United States; Tariff—United States; Terminals; Textile industry—United States; United States—Industries and resources; Wool trade—United States; *also* Chamber of commerce of the United States; United States—Foreign and domestic commerce, Bureau of

Directories

Classified import directory. National council of American importers and traders, inc., New York '23

Cuba

Cuba as an American market. L. M. Perez. Am Ind 24:35-6 F '24

Far East

Far Eastern trade outlook good. J. H. Nunn. Am Ind 25:22 Ap '25
United States in the Far East. G. A. O'Reilly. Am Ind 25:41-4 Je '25; Same. Bankers M 111:43+ Jl '25

Germany

Present situation of trade between the United States and Germany. A. G. Goldsmith. Econ W n s 27:796-7 Je 7 '24

Great Britain

Development of the organisation of Anglo-American trade, 1800-1850. N. S. Buck. 190p Yale univ. press, New Haven '25
1925 trade with Britain. Annalist 25:90+ Ja 12 '25
Our British Empire trade. R. Bean. Annalist 22:847+ D 31 '23
Trade of the United States with the British Empire. D. Miller. Econ W n s 27:43-4 Ja 12 '24

Japan

Close economic relations between the United States and Japan. F. R. Eldridge. Econ W n s 27:227 F 16 '24

Latin America

Our three billion dollar stake in Latin America. G: E. Roberts. Am Bankers Assn J 17: 744+ Je '25; Same. Econ W n s 29:906-8 Je 27 '25
United States trade with Latin America in 1924. J. R. McKey and H. S. Giusta. U S Bur For & Dom Com Trade Information Bul 345:1-48 '25
Virginia entertains important group of representatives from the Latin-American countries. Am Ind 25:31-2 Je '25

Mexico

Importance of the trade of the United States with Mexico. Econ W n s 27:15-16 Ja 5 '24

Spain

Spain and Italy your competitors and customers. F: Simpich. Nation's Business 12:20-2 Ja '24

Commerce, Department of

Annual report. H. Hoover. Comm & Fin Chr 119:2373-5, 2488-9 N 22-29 '24; Excerpts (pt. 2). Am Ind 25:8-9 D '24; Oil Paint & Drug Rep 106:19 D 1 '24; Abstract. Mech Eng 47:36 Ja '25
Commerce department indispensable force in American business. Coal Age 26:625 O 30 '24
Coolidge transfers Mines bureau to Hoover's department. L. E. Smith. Nat Pet N 17:35-6 Je 10 '25
Do you use the Department of commerce? P. Wooton. Chem & Met Eng 31:576-7 O 13 '24; Same cond. Am Mach 61:599-600 O 16 '24
Hoover gets Bureau of mines for Commerce department. P. Wooton. Eng & Min J 119: 975-6 Je 13 '25
How Department of commerce has helped American industry. Ry Age 77:655-6 O 11 '24; Automotive Ind 51:632 O 9 '24; Power 60:628 O 14 '24
Likely to change name of Department of commerce to mines and industry. Coal Age 27:950 Je 25 '25
Now industrial life is to have its outline of history. J. True. Ptr Ink 127:157-8+ Je 26 '24
Work of an engineer in the cabinet. J: H. Van Deventer. Ind Management 68:129-32 S '24

See also Export trade—Government aid; United States—Foreign and domestic commerce, Bureau of

Chemical advisory committee

Chemical advisory committee meets. Chemicals 23:10-11 Je 8 '25; Am Dyestuff Rep 14: 402-4 Je 15 '25; Oil Paint & Drug Rep 107: 21 Je 1 '25

Commercial policy

Government and American business in foreign countries. C: E. Hughes. Econ W n s 29: 652-5 My 9 '25; Excerpt. Nat City Bank p 9-10 Je '25
Unwisdom of governmental interference with normal relations between the United States and Canada. Econ W n s 29:658-9 My 9 '25

See also Merchant marine—United States; Tariff—United States

Commercial treaties

Evasions in foreign trade treaties; how technicalities may be used to the disadvantage of the American exporter. J: N. Willys. Nation's Business 13:13-14 Je 5 '25
Our commercial treaties. Index p 10-11 Je '25
Signing of new commerce treaty between United States and Germany—belief of shipping men that it nullifies marine act. Comm & Fin Chr 117:2721-2 D 22 '23

Congress

Adjournment of Congress; bills enacted in the first session of the 68th Congress. Comm & Fin Chr 118:2902-3 Je 14 '24
Bird's eye view of last Congress. Am Ind 25: 11-13 Ap '25
Business and the 68th Congress. F. C. Page. Nation's Business 13:74 Ap '25

UNITED STATES—Congress—*Continued*
Congress, a defense from the inside. S: E. Winslow. Nation's Business 13:20 Je 5 '25
Don't let the talk worry you. J: C. O'Laughlin. Nation's Business 11:23-4 D '23
Doors close on Congress. W. M. Kiplinger. il Nation's Business 12:30-1 Jl '24
Foresees harmony from the Warren controversy. R. Bean. Annalist 25:414 Mr 23 '25
H.R. 7877—the House decides to spend $50,000. Ptr Ink 127:97-8+ Ap 10 '24
Review of achievements of Congress. N. Longworth. Comm & Fin Chr 120:1841 Ap 11 '25
Survey of activities of sixty-eighth Congress. Oil Paint & Drug Rep 105:20+ Je 9 '24
Team play for prosperity. J. H. Barnes. Nation's Business 11:13-14 D '23
Washington looking ahead into the new year. R. Bean. Annalist 23:7-8 Ja 7 '24

See also Congressmen

Custom-house

Customs regulations of the United States prescribed for the instruction and guidance of customs officers. 792p U.S. Treasury dept., Washington '24
Customs service; its history, activities and organization. L. F: Schmeckebier. 191p Johns Hopkins press, Baltimore '24

Defenses

Automotive industry and national defense. C. L'H. Ruggles. map Soc Auto Eng J 14: 319-22 Mr '24
Business man and a next war. D. F. Davis. il Nation's Business 13:30-2 Ag '25
Call on industry for war preparedness. Iron Age 113:503-4 F 14 '24
Engineering problems of national defense. D. F. Davis. Mech Eng 47:33-4 Ja '25
Giant power and national defense. W: Crozier. Ann Am Acad 118:100-6 Mr '25
Industrial preparation for war emergencies. Mach 30:679 My '24
Industrial preparedness. Mech Eng 46:375-9+ Jl '24
Industrial preparedness. D. F. Davis. il map Am Mach 62:677-80 Ap 30 '25
Our industries and national defense. J: W. Weeks. Am Ind 24:5-8 My '24
Plan for mobilizing industry. D. F. Davis. Am Mach 59:785-6 N 29 '23; Discussion. 60: 389-90, 477 Mr 13, 27 '24
Plans for industrial mobilization. L. W. Moffett. Iron Age 113:707-9 Mr 6 '24
Role of the engineer in industrial mobilization planning. E. E. MacMorland. Mech Eng 46:693-5; Discussion. 695-6 N '24
Textile industry in national defense. D. F. Davis. Textile World 67:825-7 F 7 '25

See also Defense day; United States—Army industrial college

Description and travel

How to make the most of a visit to America. F. C. Budden. Ry Age 78:1433-4 Je 13 '25

Diplomatic and consular service

Foreign service of the United States. T. H. Lay. 438p Prentice-Hall '25
Giving business a foreign service; Rogers bill merging the Diplomatic corps and Consular service. C: Hodges. Annalist 23:733 Je 30 '24
New diplomacy of trade promotion. C: Hodges. Annalist 22:792+ D 17 '23
Protecting our world interests; what the State department needs from Congress to put the diplomatic and consular service on a post-war basis. C: Hodges. Annalist 22:763+ D 10 '23
Rogers bill and business. J: J. Rogers. Nation's Business 12:40+ Jl '24

Economic conditions

American economic history, H. U. Faulkner. 721p Harper '24
Are hard times gone forever? J: Oakwood. il Forbes 16:521-4 Jl 15 '25
Business and financial situation of the United States on the eve of the presidential election. W. F. Gephart. Econ W n s 28: 580-2 O 25 '24
Business conditions in the United States. Published in monthly numbers of Federal reserve bulletin
Changing economic position of the United States. O. P. Austin. Bankers M 110:443-8 Mr '25
Course of industry and trade in the United States in 1924. Econ W n s 29:260-2 F 21 '25; Same. Fed Res Bul 11:71-4 F '25
Did the war increase our national wealth? W. R. Ingalls. Iron Age 113:1417-18 My 15 '24
Dominant position of United States in world trade. il Manuf Rec 88:75 Jl 2 '25
Economic progress of the United States. Iron Age 114:1399-1400 N 27 '24
Economic prospects of the new year. H. Hoover. Econ W n s 29:4-6 Ja 3 '25
Federal reserve's annual review of economic conditions. Comm & Fin Chr 118:15-16 Ja 5 '24
Financial markets and the business outlook in the United States. Econ W n s 30:622-3 O 31 '25
Government, business and good sense. J. H. Barnes. Nation's Business 12:9-11 Je 5 '24
In the seat of the mighty. E. Dakin. Comm & Fin 13:2498-9 D 31 '24
Interesting chart on economic conditions. Ry R 73:737 N 17 '23
Money value of the national wealth of the United States in 1922. A. R. Marsh. Econ W n s 27:471-2 Ap 5 '24
Our wealth and savings to 1924. W. R. Ingalls. Annalist 23:685+ Je 16 '24
Outlook in the wheat belt. C. H. Getz. Bankers M 108:527-9 Ap '24
Philosophy of American industry. J. H. Barnes. Ptr Ink 126:160+ F 7 '24
Platform of business principles. C. Coolidge. Nation's Business 12:35-7 D '24
Political and governmental tendencies in their relation to increased wealth. C. L. King. Ann Am Acad 115:8-20 S '24
Probable economic and financial effects of a reparations settlement on the United States. Econ W n s 27:773-4 My 31 '24
Progress of the United States—1874-1924. O. P. Austin. Manuf Rec 86:184-5 pt 2 D 11 '24
Review of economic progress. H. Hoover. Comm & Fin Chr 119:2373-5 N 22 '24
U.S.—greatest earner and spender. F: B. Stevenson. Am Ind 25:9-11 F '25
Vital problems which confront the country. J. A. Emery. Iron Age 113:148-53 Ja 10 '24
Washington looking ahead into the new year. R. Bean. Annalist 23:7-8 Ja 7 '24
Wealth and income of the American people. W. R. Ingalls. 2d ed. 372p G. H. Merlin co., York, Pa. '23
Wealth of the United States, 1870-1922. Nat City Bank p 20 N '24
Who owns the United States? Silas Bent puts this question up to Walter R. Ingalls. il Nation's Business 12:40-2 D '24

See also Banks and banking—United States; Business conditions; Cost of living—United States; Debts, Public—United States; Finance—United States; Housing—United States; Labor and laboring classes—United States; Money—United States; Prices—United States; Prices, Wholesale—United States; Taxation—United States; Trade unions—United States; Unemployment—United States; Wages—United States

Economic policy

American economic policies since the armistice. H: R. Seager and P. T: Moon, eds. 231p Academy of political science, Columbia univ., New York '24
Business and Senator Underwood. J: C. O'Laughlin. Nation's Business 12:32-3 Ap '24

UNITED STATES—Economic policy—*Cont.*
Department of state and American enterprise abroad. A. N. Young. Econ W n s 30:292-6 Ag 29 '25; Same. Comm & Fin Chr 121: 1181-3; Discussion. 1145-6 S 5 '25
Mr Coolidge and American business. J: C. O'Laughlin. Nation's Business 12:17-19 Mr '24
Senator Hiram Johnson and business. J: C. O'Laughlin. Nation's Business 12:54+ Je '24

Emergency fleet corporation

Clearing the shipping situation. Marine Eng 29:73-4 F '24
Cutting out the waste in our government shipping. L. C. Palmer. Am Bankers Assn J 17:316+ N '24
Liability of Emergency fleet corporation for injury to seamen. Monthly Labor R 21:163-5 Jl '25
Shipping board defines status of fleet corporation. H. F. Lane. Marine Eng 30:71-3 F '25
War controversy taken to court; Bethlehem corporation and government file suits. Iron Age 115:1189-91+ Ap 23 '25

Employment service

United States employment service; its history, activities and organization. D. H. Smith. 130p Johns Hopkins press, Baltimore '23

Executive departments

Congress committee reports on reorganization. Eng N 92:1034 Je 12 '24
Development of national administrative organization in the United States. L. M. Short. 514p Johns Hopkins press, Baltimore '23
200 bureaus, boards and commissions! H. Hoover. Nation's Business 13:9-10 Je 5 '25

Federal specifications board

Two new national services to industry; the work of the Federal specifications board and the dictionary of specifications. G: K. Burgess. il Am Mach 60:417-19 Mr 20 '24

Federal trade commission

See Federal trade commission

Foreign and domestic commerce, Bureau of

Annual report. J. Klein. Am Mach 61:866a N 27 '24
Bureau of foreign and domestic commerce; its history, activities, and organization. L. F: Schmeckebier and G. A. Weber. 180p Johns Hopkins press, Baltimore '24
Commerce bureau answers nearly a million requests for information in year. Ptr Ink 125:81-2 D 27 '23
Government analyzing domestic markets and mapping trade zones. H: H. Morse. Ptr Ink 128:10+ Ag 28 '24
Men who are helping you to build up overseas trade. W. Fawcett. il Sales Management 6:803-4 Ap '24
Raw-material trade surveys of the Department of commerce. J. Klein. Am Inst Chem Eng Trans v 15 pt 2:139-49 '23; Abstract. Chem Age 31:573-4 D '23
Selling problems I will tackle if Congress gives me the money. A. H. Onthank. il Sales Management 8:223-4 F 7 '25
Uncle Sam to go "Sherlocking" for new export information. il Sales Management 7:1367-8+ Ag '24

Minerals division

Organization chart. G. C. Riddell. Min Cong J 10:448-9 S '24; Eng & Min J 118:709 N 1 '24

Foreign relations

Address of Secretary of state Hughes at Pilgrims dinner in London. Comm & Fin Chr 119:401-3 Jl 26 '24
American policy and international security. Ann Am Acad 120:1-180 Jl '25
America's attitude toward Europe. F. I. Kent. Eng Soc W Pa 40:170-81 My '24
America's job across the water. J: H. Fahey. Nation's Business 13:18-19 Je 5 '25
Attitude of the American people toward the reconstruction of Europe. A. B. Houghton. Comm & Fin Chr 120:2497-8 My 16 '25
Borah and our nervous neighbors. Nation's Business 13:45-7 Je '25
Effects of America's policy on the European situation. P. M. Brown and others. Ann Am Acad 114:97-121 Jl '24
French opinion and American aloofness. M. de Valette. Bankers M 108:245-7+ F '24
Playing the international game. O. D. Young. Am Ind 25:38-9 Je '25
Policy of United States toward Europe, Latin America and the Far East. C: E. Hughes. Comm & Fin Chr 117:2496-9 D 8 '23
Reports attributed to Otto H. Kahn on war debt issue denied by Kuhn, Loeb & co.—James W. Gerard and G. W. Wickersham likewise make denials. Comm & Fin Chr 120:2756 My 30 '25
Visit of American fleet to Australia. Comm & Fin Chr 121:533-4 Ag 1 '25

China

See Boxer indemnity

Great Britain

See Great Britain—Foreign relations—United States

Japan

See Japan—Foreign relations—United States

Latin America

Features of proposed Pan-American treaties. Bradstreet's 53:225 Ap 4 '25

Mexico

See Mexico—Foreign relations—United States

Forest products laboratory

To make advertising technically accurate; how bureaus and laboratories of the U.S. government are working. Ptr Ink 132:53-4+ Jl 30 '25
Uncle Sam's high-priced school. Sci Am 130: 400 Je '24

Geological survey

Birdseye party completes survey of Grand Canyon. Eng N 91:808-11 N 15 '23
Creation of conservation branch in Department of interior with transfer of divisions of Bureau of mines. Comm & Fin Chr 121: 545-6 Ag 1 '25
Geological survey gets 115 men and $400,000 appropriation from Bureau of mines. Eng & Min J 119:1060 Je 27 '25
Heroes of mapmaking; from Alaska's snows to dismal swamps, pluck and energy is completing the largest map in the world. G. E. Mitchell. il map Sci Am 133:221-3 O '25
Relations of the Geological survey to chemical engineering. G: O. Smith. Am Inst Chem Eng Trans 15 pt 2:1-4 '23; Same. Chem Age 31:531-2 D '23; Same cond. Chem & Met Eng 29:1130 D 24 '23; Discussion. Am Inst Chem Eng Trans 15 pt 2:4-5 '23
Reorganization of statistical bureaus beset by thorny path. P. Wooton. Coal Age 25:952 Je 26 '24
Running the rapids of the Grand Canyon; an exceptionally hazardous piece of surveying and mapping by Uncle Sam's topographers. G. E. Mitchell. il Sci Am 130:226-7 Ap '24
Surveying the Grand Canyon of the Colorado. C. H. Birdseye. il Eng & Contr (Ry) 62:381-9 Ag 20 '24
U.S. Geological survey and the chemical industry. F. L. Hess. Ind & Eng Chem 16: 861-2 Ag '24
What the Geological survey is doing for the mining industry. G: O. Smith. il Min Cong J 10:456-7 O '24

Government printing office

Apprentices trained by the government. F. M. Huddlestun. il Inland Ptr 75:266-8 My '25

UNITED STATES—Government printing office—*Continued*
Direct-mail advertisers aided by world's largest printer. G: H. Carter. Ptr Ink 128:77-8+ Ag 28 '24
Government bindery. G: H. Carter. Inland Ptr 74:226-8 N '24
Testing section government printing office. il diag Paper Tr J 79:45-6 O 30 '24
United States public printer makes large saving by rebuilding power plant. il Power 62:712-14 N 10 '25

Industries and resources

Amerikanische gütererzeugung. O. Knoop. Zeit Ver Deutsch Ing 68:1289-92 D 13 '24
At the end of the gang plank—a brief visit to the United States. L. O. Welcome. il Dun's Int R 44:46-8 O '24
Evolution of industry in America. J. H. Barnes. Am Pet Inst Bul 4:52-5 D 31 '23
Factors in industrial plant location. P. F. Walker. map Management & Adm 8:637-42 D '24
Geographical aspects of industrial United States in relation to increased wealth. A. G. White. Ann Am Acad 115:99-105 S '24
Growth of production and transportation in the United States from 1900 to 1920; summary of an investigation by the Research council of the National transportation institute. Econ W n s 27:151-3 F 2 '24
Income tax returns show size of various industries. Eng N 91:1076 D 27 '23
Industrial development of the United States in the last three hundred years. H. Elliott. Comm & Fin Chr 118:34-6 Ja 5 '24
Integration of industrial operation. W. L. Thorp. (Census monographs 3) 272p U.S. Bur. of the census, Washington, D.C. '24
International position of the United States as a manufacturing nation. E. M. Miller. Econ W n s 27:689-93, 728-9 My 17-24 '24
Is industry able to pay all adult workers enough to support a family of five? P. H. Douglas. Univ J of Business 3:241-54 Je '25
Manufacture and mining's century growth. Am Ind 24:32-3 Mr '24
L'organisation industrielle aux États-Unis. M. Hauser. Chimie & Ind 11:161-9 Ja '24
Our industries and national defense. J: W. Weeks. Am Ind 24:5-8 My '24
Physical volume of production in the United States for 1924. A. M. Matthews. R Econ Statis 7:208-16 Jl '25
Plan for mobilizing industry. D. F. Davis. Am Mach 59:785-6 N 29 '23; Discussion. 60: 389-90, 477 Mr 13, 27 '24
Profits and losses of American industry in 1921. Econ W n s 28:330-3 S 6 '24; Same. Nat City Bank p 140-5 S '24
Railroads and other industries compared. Eng N 92:412 Mr 6 '24
Some of the reasons for the growth of well-known industrial centers. F. E. Gooding. il map Ind Eng 83:6-11+ Ja '25
Statistical summary of commerce and industry, 1920-1924. Survey of Cur Business 42: 7-8 F '25
True importance of manufacture; what proportion of American taxes do the basic industries pay? N. Sargent. Am Ind 25:38-40 Mr '25
Vitality of American business. A. P. Dennis. Nation's Business 12:13-16 S '24

See also Agriculture—United States; Aircraft industry—United States; Automobile industry and trade—United States; Building trades—United States; Cement industry and trade—United States; Chemical industries—United States; Coal mines and mining—United States; Coal supply—United States; Coal trade—United States; Conservation of resources; Copper industry and trade—United States; Cotton—United States; Cotton manufacture—United States; Cotton trade—United States; Dye industry—United States; Electric industries—United States; Forests and forestry—United States; Gas, Natural—United States; Gas industry—United States; Gasoline industry—United States; Gold mines and mining—United States; Grocery trade—United States; Iron industry and trade—United States; Iron mines and mining—United States; Iron ores—United States; Iron works—United States; Lead industry and trade—United States; Lumber trade—United States; Machine tool industry—United States; Machinery industry—United States; Mineral industries—United States; Mines and mineral resources—United States; Mining industry and finance—United States; Motor truck industry and trade—United States; Oil shales—United States; Paint industry and trade—United States; Paper industry and trade—United States; Petroleum—United States; Petroleum industry and trade—United States; Potash—United States; Rubber industry and trade—United States; Shipbuilding—United States; Shoe industry and trade—United States; Silk manufacture and trade—United States; Silver mines and mining—United States; Steel industry and trade—United States; Steel works—United States; Sugar industry and trade—United States; Textile industry and trade—United States; Tobacco industry and trade—United States; Tractor industry and trade—United States; United States—Commerce; Water power—United States; West—Industries and resources; Zinc industry and trade—United States

Interdepartmental patents board

Interdepartmental patents board. Ind & Eng Chem 16:114 F '24

Internal revenue, Bureau of

Couzens investigating committee files evidence with Senate—charges that laxity in Treasury department has cost government millions of dollars in taxes; answer of Secretary Mellon. Comm & Fin Chr 120:1285-7 Mr 14 '25
Internal revenue bureau inquiry. Comm & Fin Chr 119:1482-3 S 27 '24
Remedy for unjust taxes decentralization of tax law administration. J. Couzens. Am Bankers Assn J 17:441 Ja '25
Revenue bureau changes affect mining industry. M. W. Kriegh. Min Cong J 10:341-2 Ag '24
Senator Lodge's justification of President's stand on Internal revenue bureau inquiry. Comm & Fin Chr 118:1999-2000 Ap 26 '24
Soiled linen in the tax closet. Comm & Fin 13:172-3 Ja 16 '24
When taxation information is desired; help that the Bureau of internal revenue will and will not give. Ptr Ink 126:10+ F 7 '24

Justice, Department of

Investigation of the Department of justice by Senate committee. Comm & Fin Chr 118: 1617-20, 1863-6, 1998, 2141, 2394-6, 2531-3, 2909-13; 119:42-3 Ap 5, 19-My 3, 17-24, Je 14, Jl 5 '24

Labor, Department of

Conciliation work of the Department of labor. See monthly numbers of Monthly labor review

Labor statistics, Bureau of

Recommendations of the Secretary of labor as to the Bureau of labor statistics. J. J. Davis. Monthly Labor R 20:229-31 F '25

Mines, Bureau of

Bureau of mines reorganization. Chem & Met Eng 31:19 Jl 7 '24
Bureau of mines transferred from Interior department to Department of commerce. Comm & Fin Chr 120:3023 Je 13 '25; Power 61:971 Je 16 '25
Coolidge transfers Mines bureau to Hoover's department. L. E. Smith. Nat Pet N 17:35-6 Je 10 '25
First aid education offered by Bureau of mines. A. F. Hinton. Nat Pet N 16:47-8 Ag 27 '24

UNITED STATES—Mines, Bureau of—*Cont.*
Fuels work of the Bureau of mines. O. P. Hood. Am Inst Chem Eng Trans v 15 pt 2: 55-8 '23
Hoover gets Bureau of mines for Commerce department. P. Wooton. Eng & Min J 119: 975-6 Je 13 '25
Mechanical engineering activities of the U.S. Bureau of mines. H. W. Brooks. N E L A Bul 11:382-4 Je '24; Same cond. Power 60: 35 Jl 1 '24
Relation of the Bureau of mines to chemical engineering. D. A. Lyon. Am Inst Chem Eng Trans v 15 pt 2:7-10 '23
Relation of the chemical work of the Bureau of mines to chemical engineering. S. C. Lind. Am Inst Chem Eng Trans v 15 pt 2: 33-7; Discussion. 37-42 '23
Relations of the federal government to mining. H. F. Bain. Min Cong J 11:6-11 Ja '25
Research on petroleum. H. H. Hill. Am Inst Chem Eng Trans v 15 pt 2:59-64; Discussion. 64-6 '23
Safety work of the Bureau of mines. H. F. Bain. Blast F & Steel Pl 12:148-9 Mr '24
U.S. Bureau of mines activities. Gas Age 53: 904 Je 28 '24

Mines, Department of (proposed)
Against a Department of mines. Eng & Min J 117:652 Ap 19 '24
Bill to establish a Department of mines and for other purposes. Eng & Min J 116:906-7 N 24 '23
Department of mines and mining. S: Shortridge. Min Cong J 11:13-14 Ja '25

National advisory committee for aeronautics
Annual report. Aviation 16:10-12 Ja 7 '24
Annual report, 10th. Aviation 17:1428-30 D 22 '24

National park service
Our pied piper of parks. F: Simpich. il Nation's Business 12:18-21 D '24

Navy
Another side of the 5-5-3 argument. D. W. Knox. il diag Sci Am 133:100-1 Ag '25
Aviation and the navy. L. McNamee. il Aviation 15:604-8 N 12 '23
Financing the Pacific cruise of the fleet. G. K. Spencer. il Bankers M 110:981-4 Je '25
Health of the navy. F: L. Hoffman. Spectator 114:31-3 Je 25 '25
Last word on the 5-5-3 ratio. J. B. Walker. il Sci Am 132:306-7 My '25
Misleading the American public as to the navy. Sci Am 132:84 F '25
Naval radio development. A. H. Taylor. Radio N 6:1479 F '25
Our knowledge of the earth's natural resources; Gulf of Mexico to be base of researches planned by naval scientific expedition. G: E. Brandt. il Manuf Rec 86:67-71 O 16 '24
Our post-war navy. H. C. Dinger. il Sci Am 131:314-15+ N '24
Secretary Wilbur's report to the House on condition of United States navy. Comm & Fin Chr 118:2656-9 My 31 '24
Some naval theories exploded. J. B. Walker. il diags Sci Am 133:178-9 S '25
Special naval board's report; result of development of aviation on the development of the navy. Aviation 18:238-40 Mr 2 '25; Engineering 119:390-1 Mr 27 '25
Statistics on our navy personnel. J: Stapler. Sci Am 133:347+ N '25

See also Oil reserves (United States navy); United States—Air service, Navy; Warships—United States

Navy department
Employees
Schedule of wages for civil employees under the naval establishment. Monthly Labor R 18:315-18 F '24
Wages of civil employees under the naval establishment. Monthly Labor R 20:311-14 F '25

Patent office
Agitation grows for better management of Patent office. Am Mach 62:906e Je 4 '25
Annual report. Am Mach 62:384 Mr 5 '25
Building up the patent office. G: H. Squire. il Am Ind 25:18-19+ N '24
Committee on Patent office procedure makes definite recommendations. Am Mach 63:134c Jl 16 '25
Committee recommends additional space for patent office. P. Wooton. Am Mach 62:294a F 12 '25
Differential-pressure steam-generating system—Patent office; abstract. L. P. Barlow. Mech Eng 47:507 Je '25
Executive order of President Coolidge transferring jurisdiction of Patent office from Department of interior to Department of commerce. Comm & Fin Chr 120:1965-6 Ap 18 '25
Herbert Hoover and the Patent office. Sci Am 132:373 Je '25
How we discourage invention. H. A. Toulmin, jr. Forbes 14:233-5 My 24 '24
Neglected well of information. K. Fenning. Sci Am 131:116 Ag '24
Partial reorganization of the U.S. patent office. W: I. Wyman. Chem Age 32:371-2 S '24
Patent office is transferred to the Department of commerce. Am Mach 62:520a Mr 26 '25; Elec W 85:684 Mr 28 '25
Patent office; its history, activities and organization. G. A. Weber. 127p Johns Hopkins press, Baltimore '24
Patent office procedure committee considering various phases. Power 62:36 Jl 7 '25
Patent office wants to know how to improve service. Ptr Ink 129:149-50 N 13 '24
Proposed changes in the building of the United States patent office. K. Fenning. diags Chem Age 32:247-50 Je '24
Rubber trade benefits by Patent office transfer. W. Fawcett. Rubber Age 17:130-1 My 25 '25
U.S. Patent office gains by the influence of a new environment. W. Fawcett. Arch Rec 57:576-8 Je '25
United States patent office has huge task. Eng & Contr (Ry) 61:813 Ap 16 '24
Welcome reform at the Patent office. Sci Am 133:56 Jl '25

See also Patent laws and legislation

Library
Patent office scientific library. M. O. Price. Special Lib 15:127-30 Je '24

Pension bureau
Report on reorganization of Pension bureau. H. Work. Comm & Fin Chr 117:2719 D 22 '23

Politics and government
Address of Robert M. LaFollette, Progressive candidate for president, detailing differing policies of opponents. Comm & Fin Chr 119: 1359-62 S 20 '24
Business, a slacker at the polls. R. B. Goodcell. Nation's Business 12:19 Ap '24
Country has no need for political revolution urged by La Follette. W: H. Barr. Comm & Fin Chr 119:2372-3 N 22 '24
Measures of Representative Cable and others to provide for succession of president to avoid situation threatened at recent election. Comm & Fin Chr 119:2841-2 D 20 '24
"More business in politics" slogan urged for industry. E: F. Roberts. Automotive Ind 51: 198-201 Jl 24 '24
Re-election of Calvin Coolidge as president of the United States—Alfred E. Smith again elected. Comm & Fin Chr 119:2132-3 N 8 '24
Secretary Hughes' address at New York state Republican convention. Comm & Fin Chr 118:1858-61 Ap 19 '24
To the victors belonged the spoils. R. Willoughby. il Nation's Business 13:21-3 Mr '25
Waste in government; abstracts. H. Hoover. Elec Ry J 65:820-1 My 23 '25; Power 61:850 My 26 '25

See also Platforms, Political

UNITED STATES—*Continued*

Population

Looking backward and forward as the year opens. T. H. Price. map Comm & Fin 14: 59-60 Ja 14 '25
New census estimate of population. Bradstreet's 52:477 Jl 26 '24
New estimate of population. Bradstreet's 52: 397 Je 21 '24
Our population now 114,311,000. G. R. Stahl. Am Ind 25:13-16 Je '25

See also City and country; Negroes in the United States

Post office department

Annual report of Postmaster-general New. Comm & Fin Chr 119:2838-9 D 20 '24
Postal receipts at fifty selected cities and also at fifty industrial cities during October. Comm & Fin Chr 117:2159 N 17 '23 [continued monthly]

See also Postal service—United States

Public health service

Review of the work of the United States Public health service in investigations of stream pollution. W. H. Frost. bibliog Am Soc C E Pro 51:1810-18 N '25; Discussion. 51:2057-64; 52:162-3, 351-3, 520-31 D '25-F '26
United States Public health service. F: L. Hoffman. Spectator 114:33-5 Je 11 '25

Public roads, Bureau of

Annual report for the year ending June 30, 1924. Pub Works 55:389-92 D '24
Summary of report for the fiscal year 1922-1923. Pub Works 55:11-12 Ja '24

Public works, Department of (proposed)

Engineers to push plan for Federal department of public works. Boston Soc C E J 10: 416-20 N '23
Proposed creation of a Department of public works. L. H. Beach. Am Soc C E Pro 50: [Soc aff] 165-76 Mr '24
Renew agitation for Public works department. Eng N 92:131 Ja 17 '24

Railroad labor board

See Railroad labor board

Reclamation service

See Reclamation service (United States)

Safety work

How the government is selling safety to American industry. Ptr Ink 125:165+ N 22 '23

Senate

General Dawes assaults the Senate. Comm & Fin 14:473 Mr 11 '25

Shipping board

Application of fuel conservation and engineering performance standards to shipping board vessels. C. J. Jefferson. Marine Eng 30:27-33 Ja '25; Discussion. 29:732-3 D '24
Consolidation of services bringing results. H. F. Lane. Marine Eng 29:575-6 O '24
Dollar bid for ships defended. il Marine R 55:176 My '25
Government owned corporations incentives to waste; Shipping board plans in that direction should be defeated. O. R. McGuire. Annalist 22:845 D 31 '23
Heavy scrap tonnage in idle ships. il Iron Age 115:1565-6 My 28 '25
How the Shipping board is reducing operating costs. Marine Eng 29:14-16 Ja '24
One-man control for the government fleet. H. F. Lane. Marine Eng 29:71-2 F '24
Politics on the high seas. J: C. O'Laughlin Nation's Business 12:18-19 Ja '24
Shipping board defines status of fleet corporation. H. F. Lane. Marine Eng 30:71-3 F '25
Shipping board opposes separation. H. F. Lane. Marine Eng 30:133 Mr '25
Shipping board sale of President ships. H. F. Lane. Marine Eng 30:255-6 My '25
Shipping board to change sales policy. H. F. Lane. Marine Eng 30:373-4 Jl '25
Try it on the ships. W: Hard. Comm & Fin 13:2325 D 3 '24
Two hundred ships sold to Ford. H. F. Lane. Marine Eng 30:507-8 S '25

See also Merchant marine act, 1920

Advertising

Inside story of shipping board advertising. Ptr Ink 129:137-40+ D 18 '24
New policy of Shipping board advertising. Ptr Ink 130:10+ Mr 12 '25
Shipping board's advertising methods under fire. Ptr Ink 127:17-20+ My 22 '24

Standards, Bureau of

Annual report, 1923-1924. Eng N 93:946-7 D 11 '24
Bureau of standards. G: K. Burgess. Textile World 67:2533+ Ap 11 '25
Bureau of standards as a source of copy and sales ideas. J. True. Ptr Ink M 8:46+ Ja '24
Le Bureau of standards des Etats-Unis à Washington. R. Perrin. il plan Génie Civil 84:402-5, 423-6 Ap 26-My 3 '24
Ceramics at the Bureau of standards. il Chem & Met Eng 32:423-5 Ap '25
Chemistry work of the Bureau of standards. W. F. Hillebrand. Am Inst Chem Eng Trans v 15 pt 2:87-96 '23; Same. Chem Age 31: 533-6 D '23
Current structural research at Bureau of standards. il Eng N 91:874-7 N 29 '23
Industrial research at the Bureau of standards. P. H. Bates. Am Inst Chem Eng Trans v 15 pt 2:97-103 '23
More research work; what the Bureau of standards is doing to solve many problems relating to concrete. F. A. Hitchcock. il diag Concrete 27:30-5 O '25
Paper research literature, VII (revised); a list of contributions by members of the U.S. Bureau of standards, 1910 to December 31, 1924. C. J. West and B. W. Scribner. Paper Tr J 80:46-52 My 21 '25
Policies, problems, and practices of the Bureau of standards. G: K. Burgess. Am Inst Chem Eng Trans v 15 pt 2:81-5 '23
Report of board of visitors to Bureau of standards of the Department of commerce for the Secretary of commerce. U S Bur Stand Misc Pub 63:1-14 '25
Science and industry in America. W. Rosenhain. il Engineer 136:494-6, 522-4 N 9-16 '23
Standards bureau metal research. H. W. Gillett. il Iron Age 116:461-5+, 536-42 Ag 20-27 '25
Les travaux récents du Bureau of standards des États-Unis. il plan Génie Civil 85:105-8 Ag 2 '24
United States Bureau of standards eclipse observations. G: K. Burgess. il Sci Am 133: 170-1 S '25
What is the Bureau of standards doing for radio? D. J. Hall. il Radio N 6:2210-11 Je '25
What the Bureau of standards is doing for American industry. G: K. Burgess. il Ind Management 70:257-63 N '25
Work being done by the automotive powerplants section of the Bureau of standards. Soc Auto Eng J 16:13 Ja '25

Division of simplified practice

How the Division of simplified practice plans conferences with organized trade bodies. C. L. Barnum. Taylor Soc Bul 9:203-24 O '24
Work of the Division of simplified practice. Management & Adm 9:14 Ja '25

Paper laboratory

Paper laboratory submits report. Paper Tr J 77:26-7+ D 20 '23

UNITED STATES—*Continued*

State, Department of

Department of state and American enterprise abroad. A. N. Young. Econ W n s 30:292-6 Ag 29 '25; Same. Comm & Fin Chr 121:1181-3; Discussion. 1145-6 S 5 '25

Statistics

Guide to original sources for the major statistical activities of the United States government. 18p U.S. Bur. of efficiency, Washington, D.C. '25

Progress of the United States shown in statistics, 1900-1922. O. P. Austin. Gas Age 53:8 Ja 5 '24

Twenty-four years' progress. Comm & Fin 13: 67 Ja 9 '24

Superintendent of documents

Greatest mail-order information business in the world; distributing government publications. Ptr Ink 132:113-14+ Jl 16 '25

Supreme court

Representative government versus direct democracy. M. W. Littleton. Comm & Fin Chr 121:92-5 sec 2 O 17 '25; Same cond. Am Bankers Assn J 18:209-10+ O '25

Shall we hamstring the Supreme court? R: W. Edmonds. Manuf Rec 86:89-90 O 2; 81-2 O 9; 63-4 O 16 '24

Suggests that United States Supreme court be clothed with powers to serve executive and legislative departments in advisory capacity. J. M. Beck. Comm & Fin Chr 119:2960-2 D 27 '24

Supreme court and business. Nation's Business 12:60 Ap '24

See also Trade associations—Supreme court decisions

Tariff commission

Tariff board's purposes told abroad. H: H. Glassie. Oil Paint & Drug Rep 108:21 O 5 '25

Taxation

See Income tax—United States; Taxation—United States

Treasury annex

United States treasury annex, Washington; views and plans. Arch Forum 43:pl 28-9 Ag '25

Treasury department

Annual report of the Comptroller of the currency; views regarding branch banking. Comm & Fin Chr 117:2604-6 D 15 '23

Balance wheel in the treasury; how Robert G. Hand serves as a vital cog. L. Alexander. Am Bankers Assn J 17:622+ Ap '25

Charles B. Brewer before committee investigating Bureau of engraving and printing alleges bond duplication and treasury frauds. Comm & Fin Chr 119:1580-2 O 4 '24

Deposits of public moneys. C: S. Dewey. Am Bankers Assn J 18:129-30+ S '25; Same. Econ W n s 30:485-7 O 3 '25

Putting the breath of life into dead money; mutilated money and charred Liberty bonds. R. A. Lewis, jr. Am Bankers Assn J 17:25-7+ Jl '24

Report of the Comptroller of the currency. Comm & Fin Chr 119:2593-4 D 6 '24

See also Bonds, Government—United States

Treaties

Proclamation of President Coolidge abrogating Panama canal treaty. Comm & Fin Chr 118:2767-8 Je 7 '24

See also United States—Commercial treaties

Veterans' bureau

Finding jobs for ex-service men. F. U. Quillin. Comm & Fin 13:384 F 20 '24

War department

Biggest thing printed salesmanship ever did; selling War department surplus. U. V. Wilcox. Ptg Art 44:141-5 O '24

Government acknowledges a debt to advertising. Ptr Ink 129:117-18 N 6 '24

Organizing industry for preparedness against war. D. F. Davis. Management & Adm 7: 281-2 Mr '24

Some production problems in the War department's preparedness program. H. W. Churchill. Mech Eng 46:268-70; Discussion. 270-1 My '24

War department radio net. A. V. Hill. Sci Am 130:400 Je '24

UNITED STATES air services (periodical)

Unfair publishing competition; improprieties of "U.S. air services" and of some air service officers now under investigation. Aviation 16: 502-5 My 12 '24

UNITED STATES association of charcoal iron workers journal

Forgotten wood distillation journal. H. N. Calderwood. Chem & Met Eng 32:19 Ja 5 '25

UNITED STATES cast iron pipe and foundry company

Dividend decision. Moody's Inv Serv 16:391 O 23 '24

Earning power and market value of the common stock. A. Motelle. Annalist 25:477 Ap 6 '25

UNITED STATES chemical warfare service association

U. S. chemical warfare association is planned. Oil Paint & Drug Rep 106:19 O 20 '24

UNITED STATES grain corporation

Wheat control during the war; abstract. F. W. Surface. Nat City Bank p 6-8 Jl '25

UNITED STATES gypsum company

Using automobiles to increase profitable sales. E. W. Dunham. il System 47:764-5+ Je '25

UNITED STATES mint. See Mints

UNITED STATES railroad labor board. See Railroad labor board

UNITED STATES realty and improvement company

Twenty-first consolidated annual report for the year ended April 30, 1925. Comm & Fin Chr 120:2566-7 My 16 '25

UNITED STATES rubber company

Annual report for year ended December 31, 1923. India Rubber W 70:463-4 Ap '24; Comm & Fin Chr 118:1261 Mr 15 '24; Bradstreet's 52:206 Mr 29 '24

Operations of an American rubber company in Sumatra and the Malay peninsula. H. S. Hotchkiss. Ann Am Acad 112:154-62 Mr '24

U.S. rubber company appeals for retrial of Ayer case. Ptr Ink 130:10+ Ja 15 '25

United States rubber company's advertising exhibit. A. Belden. Ptr Ink M 8:112+ Ja '24

UNITED STATES salvage association

Salvage association improves service. J. Brengle. Marine R 54:285 Jl '24

UNITED STATES steel corporation

Annual meeting, Hoboken. Bradstreet's 53:274 Ap 25 '25

Annual report; editorial. Comm & Fin Chr 118:1457-60 Mr 29 '24

Annual report of the United States steel corporation; editorial. Comm & Fin Chr 120: 1525-7 Mr 28 '25

Annual report, 22d, for 1923. Comm & Fin Chr 118:1534-40 Mr 29 '24; Iron Age 113:937-40 Mr 27 '24; Iron Tr R 74:843-5 Mr 27 '24

Annual report, 23d, for year ended December 31, 1924. Comm & Fin Chr 120:1600-6 Mr 28 '25; Excerpts. Iron Age 115:891-4 Mr 26 '25; Abstract. Bradstreet's 53:210 Mr 28 '25

Big business invests heavily in welfare; in seventeen years the United States steel corporation has expended $126,885,911. A. C. Carruthers. il Safety Eng 48:146-52 O '24

Bookings exceed shipments for Steel corporation in 1924. Iron Tr R 76:849-51 Mr 26 '25

Corporation plans alloy mill. Iron Tr R 77: 599 S 3 '25

UNITED STATES steel corporation—*Cont.*

Federal trade commission decides against United States steel corporation in Pittsburgh plus case. Comm & Fin Chr 119:389-92 Jl 26 '24

Financial structure of the U.S. steel corporation. G: C. Cox. Annalist 25:349-50 Mr 9 '25

Foreign holdings of common and preferred stocks of the United States steel corporation show slight decline. Comm & Fin Chr 118: 2000-1; 119:285-6; 120:539-40, 2106-7; 121: 1999-2000 Ap 26, Jl 19 '24, Ja 31, Ap 25, O 24 '25

Labor policy of the United States steel corporation. C: A. Gulick. (Columbia univ. Studies in history, economics and public law) 200p [bibliog. p. 195-7] Longmans '24

Quarterly earnings. Bradstreet's 52:494, 702-3 Ag 2, N 1 '24; Iron Age 114:262 Jl 31 '24

Remarks about our management. E. H. Gary. Blast F & Steel Pl 13:253-4 Je '25

Steel corporation declares larger extra dividend. Bradstreet's 52:78 F 2 '24

Steel corporation operations charted. S. G. Koon. Iron Age 113:1789-90 Je 19 '24

United States steel corporation's earnings. Bradstreet's 53:84 Ja 31 '25; Iron Age 115: 361 Ja 29 '25

United States steel corporation's earnings for first quarter. Bradstreet's 53:290 My 2 '25

United States steel corporation's earnings for the second quarter of 1925. Iron Age 116: 299 Jl 30 '25

Which is more efficient, Steel corporation or Bethlehem? A. J. Hain. Iron Tr R 76:886 Ap 2 '25

See also Steel—Prices

UNITED typothetæ of America

Annual convention, 38th, Chicago, Oct. 13-18. Ptr Ink 129:44+ O 23 '24

Annual convention, 38th, Chicago. M. Heir. Inland Ptr 74:269-71 N '24

Annual convention, 39th. Inland Ptr 76:284 N '25; Ptr Ink 133:68 O 29 '25

Case of Trade commission and typothetae ended. Inland Ptr 73:912 S '24

United typothetæ of America and the Federal trade commission. J. L. Engle. Paper Tr J 77:53-6 N 29 '23

United typothetae of America takes forward steps at Washington convention. Inland Ptr 72:476-8 D '23

UNITED Verde extension

Great mining adventure. T. A. Rickard. il Eng & Min J 117:959-63 Je 14 '24

UNITED wall paper crafts of North America

Wall paper industry; national agreement. Monthly Labor R 19:137-8 Jl '24

UNITS

Relation between the mechanical and electrical units. G. E. Hall. Cassier's Ind Management 12:416 Ag '25

Rhe as the absolute unit of fluidity. E. C. Bingham. Ind & Eng Chem 17:47 Ja '25

See also Electric units; Heat units; Metric system; Weights and measures

UNIVERSAL joints. See Joints, Universal

UNIVERSE

Must our universe be infinite? N. P. Rashevsky. il Sci Am 133:162-3 S '25

Size of the universe. A. Henderson. Sci Am 130:92 F '24

Size of the universe. N. P. Rashevsky. il Sci Am 132:30-1 Ja '25

UNIVERSITY city, Paris

La Cité Universitaire de Paris; la Fondation Deutsch de la Meurthe. A. Bidault des Chaumes. il plans Génie Civil 87:281-5, pl 3 O 3 '25

UNSATURATED compounds

Investigations on the dependence of rotatory power on chemical constitution; four alcohols containing the vinyl group and some esters derived therefrom. J. Kenyon and D. R. Snellgrove. Chem Soc J 127:1169-81 My '25

Parachor and chemical constitution; polar and non-polar valencies in unsaturated compounds. S: Sugden, J: B. Reed and H: Wilkins. bibliog Chem Soc J 127:1525-40 Jl '25

Relative rates of catalytic hydrogenation of different types of unsaturated compounds; aliphatic ethylenic derivatives. S. V. Lebedev, G. G. Kobliansky and A. O. Yakubchik. Chem Soc J 127:417-40 F '25

UNSHRINKABLE woolen. See Wool, Chlorination of

UPHOLSTERY

Furnishing and upholstering fabrics. H. Woodman. Textile Inst J 15:P263-5 Jl '24

Modern furniture upholstering. J: W. Stephenson. 2d ed., rev. & enl. 243p Clifford & Lawton, New York '23

Practical upholstery. E. Boreham. 184p Evans bros., ltd., London '24

See also Automobiles—Upholstery; Plush

UPSETTING machines

Birdsboro plate-planing and upsetting machine. il Am Mach 62:181-2 Ja 22 '25; Iron Age 115:201-2 Ja 15 '25; Iron Tr R 76:229 Ja 15 '25; Mach 31:493 F '25

Machine forging dies. C. C. Hermann. diags Mach 31:434-5 F '25

Upsetting machine lowers cost of production on certain kinds of forgings. il Automotive Ind 52:226-7 F 5 '25; Same abr. Mech Eng 47:289-90 Ap '25

URANIUM

Effect of uranium in various types of glazes. O. E. Mathiasen. il Am Cer Soc J 7:499-503 Jl '24

Effects of uranium on cast iron. H. S. Foote. Foundry 52:105 F 1 '24

New and known minerals from the Utah-Colorado carnotite region. F. L. Hess. il U S Geol S Bul 750—D:63-78, pl 4-11 '24

Radium, uranium, and vanadium in 1923. F. L. Hess. Eng & Min J 117:91 Ja 19 '24

Radium, uranium, and vanadium in 1924. F. L. Hess. Eng & Min J 119:93 Ja 17 '25

Relation between uranium and radium; the period of ionium and the ionium-thorium ratio in Colorado carnotite and Joachimsthal pitchblende. F: Soddy and A. F. R. Hitchins. Philos Mag 6th ser 47:1148-58 Je '24

Relative activities of radioactive substances in an unchanged primary uranium mineral. W. P. Widdowson and A. S. Russell. Philos Mag 6th ser 46:915-29 N '23

Short-lived radioactive products of uranium. W: G: Guy and A. S. Russell. Chem Soc J 123:2618-31 O '23

See also Rauvite

Analysis

Analytical methods for certain metals. C. W. Davis. U S Bur Mines Bul 212:199-233; Bibliography. 234-7 '23

Determination of uranium. G. E. F. Lundell and H. B. Knowles. Am Chem Soc J 47: 2637-44 N '25

Modified method for the determination of uranium in carnotite. P. H. M.-P. Brinton and R. B. Ellestad. Ind & Eng Chem 16: 1191-2 N '24

URANIUM compounds

Photochemical decomposition of oxalic acid in the presence of uranium salts. W. C. Holmes. Am Dyestuff Rep 13:188+ Mr 24 '24

URANYL nitrate hexahydrate

Crystal structure of uranyl nitrate hexahydrate. L. Pauling and R. G. Dickinson. Am Chem Soc J 46:1615-22 Jl '24

UREA

Agricultural value of some of the newer nitrogenous fertilizers. J. G. Lipman and H. C. McLean. Ind & Eng Chem 17:190-2 F '25

Commercial preparation of urea. L. Maugé. Chem Age (Lond) 10:541 My 24 '24

Effect of various factors upon the velocity of crystallization of substances from solution. J: D. Jenkins. diags Am Chem Soc J 47: 903-22 Ap '25

UREA—*Continued*
Equilibrium in the system: urea, methyl alcohol. J. H. Walton and R. V. Wilson. Am Chem Soc J 47:320-3 F '25
Manufacture of fertilizer urea on a tonnage basis. R. S. McBride. flow sheet il Chem & Met Eng 32:791-3 O '25
Preparation and chlorination of αβ-alkylacylcarbamides. E. Roberts. Chem Soc J 123: 2779-82 N '23
Preparation and study of symmetrical bis-arsono-aryl-benzamido-ureas. C. S. Hamilton and R. T. Major. diag Am Chem Soc J 47: 1128-34 Ap '25
Solubility of urea in water. L. A. Pinck and M. A. Kelly. Am Chem Soc J 47:2170-2 Ag '25
See also Thiourea

UREA-FORMALDEHYDE condensation products
Urea-formaldehyde condensation products. Chem Age 32:470 N '24
See also Pollopas

UREASE
Mechanism of the action of amino promoters upon enzymes. E. W. Rockwood. Am Chem Soc J 46:1641-5 Jl '24

URETHANS
Some new hydroxy-urethans and chromo-isomeric silver salts of their acyl derivatives. R. E. Oesper and W. A. Cook. Am Chem Soc J 47:422-9 F '25

URIC acid
Action of alkali on substituted uric acids; 1, 3-dimethyl-9-phenyl-uric acid. E. S. Gatewood. Am Chem Soc J 45:3056-64 D '23
Action of alkali on substituted uric acids; 1, 3,7,9-tetramethyl-uric acid and 1,3,9-trimethyl-uric acid. E. S. Gatewood. Am Chem Soc J 47:2181-9 Ag '25
Action of alkali on substituted uric acids; 1, 3,7-trimethyl-9-phenyl-uric acid. E. S. Gatewood. Am Chem Soc J 47:2175-81 Ag '25
Oxidation of uric acid with ferrous salts. M. H. Pfaltz. Am Chem Soc J 45:2980-4 D '23
Solvent action of trialkyl trimethylene-triamines on uric acid. J: Graymore. Chem Soc J 125:2283-5 N '24

URINALS
Evolution of the modern urinal. F. R. King. diags Dom Eng 111:19-22 Je 6 '25

URINE
Carbohydrate content of normal urine; abstract. J. Patterson. Soc Chem Ind J (Chem & Ind) 44:638 Je 19 '25
See also Urea

UROBILIN
Determination of small amounts of zinc in materials of organic nature; a microchemical method based on the fluorescence of zinc salts with urobilin. R. E. Lutz. J Ind Hygiene 7:273-90 [bibliog. p. 289-90] Je '25

URUGUAY
Uruguay; general descriptive data. 29p Pan American union, Washington '25

USE and occupancy insurance. See Insurance, Use and occupancy

USED cars. See Automobile industry and trade—Used cars

USES, New. See Advertisements—Use appeal; Markets, New

USURY laws
Suit against National bank to recover excessive interest. Bankers M 109:223-4 Ag '24
Usury and usury laws. F. W. Ryan. 249p Houghton '24

UTAH
See Coal—Utah; Gas, Natural—Utah; Geology—Utah; Miners—Utah; Mines and mineral resources—Utah; Mining industry and finance—Utah; Petroleum—Utah; Roads—Utah; San Juan river; Silver mines and mining—Utah

UTAH copper company
Annual report, 20th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2007 Ap 18 '25
Facts for the stockholder. Eng & Min J 117: 191 Ja 26 '24

V

VAAL river
Model of the Vaal river sluices. W. Ingham. il Engineer 137:357 Ap 4 '24

VACATION camps
Employees' summer vacation resorts as health promoters; Chicago utility companies colony at Delavan lake, Wisconsin. R. W. Liddle. il Nation's Health 6:585-7+ S '24
High in the mountains railway maintains vacation camp. E. C. Thomas. il Aera 13:226-30 S '24
Keeping employes fit with play, Minute tapioca company. E. P. Stone. il Am Ind 26: 26-7 Ag '25
Mill parks new feature in Southern communities. D. G. Woolf. il Textile World 66:2011-12 O 11 '24
Patrick-Duluth summer camp aids employees' health. il Nation's Health 7:49-50 Ja '25
Railway recreation camps patronized. Elec Ry J 66:255 Ag 15 '25
Vacation camps that build company spirit. G: W. Gray. il Ptr Ink M 8:21+ My '24
Where employer and employee meet in recreation. M. Heir. il Inland Ptr 75:75-7 Ap '25
Why our Dallas man calls our Erie manager Ed. H. F. Barnes. il System 45:634-6 My '24

VACATIONS
Employees' summer vacation resorts as health promoters; Chicago utility companies colony at Delavan lake, Wisconsin. R. W. Liddle. il Nation's Health 6:585-7+ S '24
Factory vacations that help instead of hinder. il Factory 32:829-30+ Je '24
Paid vacations for workers. J: Nelson. Iron Age 116:743-4 S 17 '25
Vacation plans for wage workers. Iron Age 114:1471+ D 4 '24
Vacations for factory workers. Management & Adm 8:52 Jl '24
Vacations with pay for office and factory workers. Monthly Labor R 21:672-3 S '25
Vacations with pay in Czechoslovakia. Monthly Labor R 21:674 S '25
Vacations with pay in Poland. Monthly Labor R 18:89-90 Ja '24
See also Salesmen—Vacations

VACCINATION
Present menace of smallpox. F: S. Kellogg. il Nation's Health 6:591-2 S '24

VACCINE therapy
Use of pneumococcal vaccine. S. Lister. bibliog J Ind Hygiene 6:45-56 Je '24

VACUUM
Properties of gases in high and low vacua. E. Rutherford. Engineering 117:330, 365-6, 387, 429 Mr 14-Ap 4 '24; Abstract. Electrician 92:450-1 Ap 11 '24
Vacuum door. R. F. Mehl and D. P. Smith. diag Ind & Eng Chem 17:598 Je '25
Vacuum—there's something in it. W. R. Whitney. il Gen Elec R 27:430-9 Jl '24

VACUUM cleaners
Points to remember in selecting vacuum cleaning apparatus. C. H. Whiting. Heat & Ven 22:83-4 Ja '25
See also Eureka vacuum cleaner company

Directories
Journal of electricity appliance directories. J Elec 55:294-5 O 15 '25

Manufacture
Inspection gages and methods; vacuum sweepers. il Am Mach 62:584-5 Ap 9 '25

VACUUM cleaners—Manufacture—*Continued*
Special tools and operations used in making sweepers. F. H. Colvin. il diags Am Mach 62:829-31 My 28 '25

Merchandizing

Certificate assists vacuum cleaner campaign. J Elec 55:256 O 1 '25

VACUUM cleaning
Boiler flue cleaning; a vacuum cleaner for power stations. il diags Electrician 93:696-7 D 19 '24
Domestic vacuum cleaner chief part of barrel cleaning process. W. K. Halbert. il Nat Pet N 15:22-4 N 14 '23
New use for gas; possibilities of its employment for vacuum cleaning. B. C. Joy. Gas J (Lond) 166:535-6 My 21 '24
Vacuum cleaning important in routine sanitary measures. Nation's Health 6:548-9 Ag '24
What is wrong with central vacuum cleaning systems? E. J. Skillman. Heat & Ven 21: 59-60 Ja '24

See also Vacuum cleaners

VACUUM gages
Electrically-operated flow meters. J: Liston. il diag Gen Elec R 28:40-1 Ja '25
Laboratory vacuum gage. M. L. Hamlin. diags Am Chem Soc J 47:709-12 Mr '25

VACUUM pans
Vacuum equipment for food processing. G: F. Kroha. il diag Chem & Met Eng 30:320-1 F 25 '24

VACUUM pumps
All-metal high-vacuum pump system. I. Backhurst and G. W. C. Kaye. bibliog diags Philos Mag 6th ser 47:918-29 My '24
Automatic Töpler pump. F. Porter. diag Ind & Eng Chem 16:731-2 Jl '24
Bypass improves operation of vacuum pump. F. H. Allen. diag Power 61:267 F 17 '25
Calculating the amount of air liberated in barometric condensers. C. M. Reed. Power 59:370-2 Mr 4 '24; Discussion. 59:692-3 Ap 29 '24
Crescent roto-piston vacuum pump. il Iron Age 113:1350 My 8 '24; Management & Adm 8:93 Jl '24
Determining the air capacities of vacuum pumps. Heat & Ven 22:93-4 My '25
Determining the type of vacuum pump for given air removal conditions. C. M. Reed. diags Power 60:52-4 Jl 8 '24
Eisler two-stage high vacuum pump. il diag Iron Age 114:139 Jl 17 '24; Chem & Met Eng 31:197 Ag 4 '24
Établissements Gaiffe-Gallot et Pilon. il diag Chimie & Ind 11:sup31-3 Mr '24
Improved filter-pump. K. C. D. Hickman. diag Chem Soc J 123:3414-15 D '23
Ingersoll-Rand small sized vertical vacuum pumps. il Power 58:994 D 18 '23
Joy's gas-operated vacuum pump. diag Engineer 140:462 O 30 '25
Metal annular-jet vacuum pump. I. Backhurst and G. W. C. Kaye. diag Philos Mag 6th ser 47:1016-20 My '24
Motor driven return line vacuum heating pumps. H. M. Wylie and A. D. Harvey. il diags Am Soc Heat & V E J 31:279-96 My '25
Parsons mercury vapour condensation pump. diags Engineering 120:459 O 9 '25
Potassium as a mercury-vapour trap. A. L. Hughes and F. E. Poindexter. diags Philos Mag 6th ser 50:423-39 Ag '25
Production and measurement of high vacuum. S. Dushman. 239p General electric review, Schenectady, N.Y. '22
Production and measurement of low pressures. F. H: Newman. 192p Van Nostrand '25
Simple automatic mercury pump. H. M. McLaughlin and F. E. Brown. diag Am Chem Soc J 47:613-15 Mr '25
Steam-jet condensing-type vacuum pump. J. H. Smith. diags Elec J 22:17-23 Ja '25; Excerpts. Power Pl Eng 29:334-7 Mr 15 '25; Abstract. Mech Eng 47:211 Mr '25
Trane return line vacuum pumps. il Power 60:69-70 Jl 8 '24
Vacuum pump design. Power Pl Eng 28:1020, 1114 O 1, N 1 '24
Vacuum pump for priming centrifugals. il Power Pl Eng 29:1124 N 1 '25
Vacuum pump heating systems. R. H. Anderegg and M. W: Ehrlich. diags Dom Eng 112:22-4 Ag 1; 18-20 Ag 8; 33+ Ag 15; 20-2 Ag 22 '25
Vacuum pump of 1884 and its application to ice making. il diag Refrig W 60:19-20 S '25
Why condenser vacuum pump races. R. A. Cultra. diag Power Pl Eng 28:1223-4 D 1 '24
Why not extend the vacuum to the inside of the radiator? Heat & Ven 21:68-70 O '24

VACUUM stripping. See Carding machines—Stripping

VACUUM tubes
Aladdin's magic lamp. J. W. Howe. il diags Wireless Age 11:38-9+ F '24
Alkali-vapor detector tubes. H. A. Brown and C: T. Knipp. il diags Ill U Eng Exp Sta Bul 138:1-37 '23; Same cond. Am Inst E E J 43:26-32 Ja '24; Discussion. 43:1068-9 N '24
Analysis of resonance curves observed in potassium vapor. R. C. Williamson. Phys R 24:134-42 Ag '24
Application of a thermionic valve to the measurement of the damping of vibrations of a steel wire. F. M. Chambers. il diag Philos Mag 6th ser 48:636-45 O '24
Application of oscillating valve circuits to the precise measurement of certain physical quantities. J. E. P. Wagstaff. diags Philos Mag 6th ser 47:66-84 Ja '24
Characteristic surface of the thermionic valve. J. R. Tolmie. Wash U Eng Exp Sta Bul 24:1-22 '24
Chat on vacuum-tube characteristics. diags Sci Am 131:266+ O '24
Chemical aspects of radio. C. Marx. Chem Age 32:449-52 N '24
Cold tube of the future. J. H. T. Roberts. il diags Radio N 6:935+ D '24
Detecting music with a nitrogen tube. C. B. Bazzoni. il diag Radio N 5:1744+ Je '24
Dunoyer-Toulon experiments. C. B. Bazzoni. Radio N 7:274-5+ S '25
Dynamic model of a valve and oscillating circuit. R. C. Clinker. diags Inst E E J 62:125-6 Ja '24; Same. Engineer 136:583 N 30 '23; Abstract. Elec R (Lond) 94:487-8 Mr 28 '24; Discussion. Inst E E J 62:127-8 Ja '24
Effect of surface charges in vacuum discharge tubes. A. R. Olson and T. F. Young. Phys R 25:58-65 Ja '25
Electron emission from oxide coated filaments. L. R. Koller. Phys R 25:671-6 My '25
Emploi de la lampe à trois électrodes en analyse. A. Kling and A. Lassieur. diags Chimie & Ind 12:650-2 O '24
Formulas for the amplification constant for three-element tubes in which the diameter of grid wires is large compared to the spacing. F. B. Vogdes and F. R. Elder. diags Phys R 24:683-9 D '24
Four electrode vacuum tube. G: Imlach. il diags Radio N 6:694-5+ N '24
Grid as traffic regulator. O. Lodge. il Radio N 6:1850+ Ap '25
Grid-filament conductivity; its nature and effect on amplification. F. M. Colebrook. diags Electrician 91:574-5 N 23 '23
Grid mesh: the effect of various factors on valve design. N. Wells. diags Electrician 92: 448-9 Ap 11 '24
Hard tubes and soft tubes as amplifiers and detectors. C. B. Bazzoni. diags Radio N 7: 434-5+, 604+, 786+ O-D '25
Heart of radio. W. C. White. il Wireless Age 11:30-2+ My '24
Heating valve filaments by alternating current. W. Redmayne. diags Elec R (Lond) 96:128-30, 549 Ja 23, Ap 3 '25
High-tension rectifying and transmitting valves. il Engineering 118:492-4 O 3 '24
Introduction to the mysteries of the vacuum tube. D. G. Ward. il diags Wireless Age 12: 50-1+ D '24

VACUUM tubes—*Continued*
Low- v. high-temperature valves for wireless reception. A. L. M. Douglas. Elec R (Lond) 95:689-90 N 7 '24; Discussion. C: F. Trippe. 95:971 D 26 '24
Low-voltage glows in hydrogen. G. Stead and B. Trevelyan. diags Philos Mag 6th ser 48:978-1006 N '24
Marconi-Osram thermionic valves. il Elec R (Lond) 95:498-9 O 3 '24; Electrician 93:350-1 S 26 '24; Engineering 118:456-7 S 26 '24
Matching tubes for super-heterodynes. S. Y. White. Radio N 6:1899+ Ap '25
Method of producing a square wave of radio frequency. J. L. Bowman. il diags Phys R 24:31-7 Jl '24
Modification of the thermionic current in vacuum tubes when potassium deposited on the inside walls or grid of the tube is illuminated. J. M. Hyatt. diags Phys R 23:501-6 Ap '24
Modified vacuum tubes. J. J. Manley. diags Philos Mag 6th ser 48:110-12 Jl '24
Mullard valves. il Electrician 93:233 Ag 29 '24
Multiple grid vacuum tubes and their advantages. T. H. Nakken. diags Radio N 7:804-5+ D '25
New developments of vacuum tubes. il Radio N 6:1384+ F '25
New neon-filled rectifier tube. J. Riley. il Radio N 7:293+ S '25
New 110-volt vacuum tube. G. C. B. Rowe. il diags Radio N 7:25 Jl '25
New oscillator for very short waves. R. Gunn. il diag Radio N 6:923+ D '24
New tube design. Sci Am 132:353 My '25
New uses for the vacuum tube; measuring the growth of plants. C. B. Bazzoni. il diags Radio N 7:22-4+ Jl '25
New vacuum tube works on alternating current. Sci Am 133:64+ Jl '25
Les nouvelles lampes de radiophonie à l'Exposition de physique. Génie Civil 84:92-3 Ja 26 '24
Passage of electricity through vacuum tubes. R. Whiddington. il Engineering 120:20-1 Jl 3 '25
Perfectionnements aux triodes démontables de grande puissance. Holweck. Génie Civil 84: 601 Je 21 '24
Radio aids the surgeon. J. Hollander. il Radio N 7:776+ D '25
Radio vacuum tubes that you can take apart. F: M. Delano. il Sci Am 131:391 D '24
Raytheon rectifier. J. Riley. il diags Radio N 7:613+ N '25
Recent novelties in thermionic tubes for radio work. J. A. Fleming. il diag Radio N 5: 1222-4, 1401-2+ Mr-Ap '24
Rectifiers. il diags Engineer 130:287-9, 318-20, 346-7 S 18-O 2 '25
Die regelung der spannung von gleich-stromgeneratoren mittels glühkathodenröhren. W. Taeger. Elektrotech Zeit 45:1407-9 D 18 '24
Regeneration in tuned three-element vacuum-tube circuits. E: H. Lange. diags Philos Mag 6th ser 50:750-60 O '25
Rejuvenation of tubes successful. Radio N 7:906+ D '25
Ein selbsttätiger kennlinienschreiber für elektronenröhren. H. Stahl. il diags Elektrotech Zeit 45:1313-15 N 27 '24; Abstract. Elec W 85:58 Ja 3 '25
Singular case of electron tube oscillations. G. Breit. J Fr Inst 197:355-8 Mr '24
Sodion radio detector tube. H. P. Doule. Electrician 91:635 D 7 '23
Some thermionic valve problems. E. V. Appleton. Elec R (Lond) 97:433-4 S 11 '25; Same. Electrician 95:266-7 S 4 '25; Abstract. Engineer 140:271 S 11 '25
Space-charge and thermionic currents. W: S. Kimball. Philos Mag 6th ser 49:695-708 Ap '25
Space charge effect. E. W. B. Gill. Philos Mag 6th ser 49:993-1005 My '25
Theory of the generation of alternating currents by means of triodes. N. Shuttleworth. diags Inst E E J 61:1121-33 O '23
Theory of the schroteffekt. T. C. Fry. diags J Fr Inst 199:203-20 F '25
Thermionic valve and its developments in radio-telegraphy and telephony. J: A. Fleming. 2d ed., rev. 438p Wireless press, ltd., 326 Bway., New York '24
Thermionic valve testing set. J. Urmston. Elec R (Lond) 96:393-4; Discussion. 394-5 Mr 6 '25
Thermionic valves with dull-emitting filaments. Inst E E J 62:689-96 Ag '24; Abstracts. Elec R (Lond) 94:553-4 Ap 4 '24; Electrician 92:453 Ap 11 '24; Discussion. Inst E E J 62:696-700 Ag '24
Three electrode tube in 1899? D. C. Wilkerson. diags Radio N 6:934+ D '24
Triode antedating De Forest's tube? D. C. Wilkerson. diags Radio N 6:1671+ Mr '25
Tubes that play 'possum. J. Snyder. Wireless Age 11:49+ Ap '24
Über messungen von kapazitäten mittels kathodenröhren. V. S. Kulebakin. diags Elektrotech Zeit 46:923-4 Je 18 '25
Vacuum tube and how it works. J: H. Morecroft. il diags Radio N 5:1582-4+, 1748-9+ My-Je '24
Vacuum tube and photo-electric cell. G. Ferrié. il diags Radio N 7:426-7+ O '25
Vacuum tube as a detector. D. G. Wade. diags Wireless Age 12:48-9+ Ja '25
Vacuum tube oscillators record distant earthquakes. J. E. Anderson. il diags Radio N 6:660-2+ N '24
Vacuum tube progress. A. W. Hull. il diags W Soc E J 28:558-72 D '23
Vacuum tube situation. D. C. Wilkerson. il Radio N 6:1874+ Ap '25; Discussion. W. R. Armstrong. 7:462 O '25
Vacuum tubes applied to engine ignition. diags Automotive Ind 50:1287-9 Je 12 '24
Valve impedance. W. H. Date. diag Electrician 94:688 Je 12 '25; Correction. 94:728 Je 19 '25
Valve oscillation generator. D. G. Bower. Electrician 95:412+ O 9 '25
What vacuum tube curves mean. R. W. Hallows. il diags Radio N 6:698-9+ N '24
When buying vacuum tubes. V. C. Macnabb. diags Radio N 6:1665+ Mr '25

See *also* Amplifiers, Vacuum tube; Kenotron; Magnetron; X-ray tubes

Patents

Vacuum tube patent situation. J: B. Brady. diags Radio N 5:1573+ My '24

Repair

Wireless valve repairing works. il Engineer 136:648-9 D 14 '23

Testing

Test of vacuum tubes. S. W. Marshall, jr. Radio N 6:1898 Ap '25

VALENCE
Bohr atom and covalency. N. V. Sidgwick. Soc Chem Ind J (Chem & Ind) 42:1203-6 D 14 '23
Co-ordination and conjugation; mixed bond, definitions and rules. E. B. R. Prideaux. Soc Chem Ind J (Chem & Ind) 44:25-8 Ja 9 '25
Dynamic hypothesis of chemical combination. G. T. Morgan. Soc Chem Ind J (Chem & Ind) 43:1071-3 O 31 '24
Electronic conception of valence and heats of combustion of organic compounds. M. S. Kharasch and B. Sher. J Phys Chem 29: 625-58 Je '25
Electronic theory of valency. B. Flürscheim. Philos Mag 6th ser 47:569-76 Mr '24
Electronic theory of valency; intramolecular ionization in organic compounds. T. M. Lowry. Philos Mag 6th ser 46:964-76 N '23
Electronic theory of valency; the origin of acidity. T. M. Lowry. Philos Mag 6th ser 47:1021-4 My '24
Electronic theory of valency; the transmission of chemical affinity by single bonds. T. M. Lowry. Philos Mag 6th ser 46:1013-20 N '23
Influence of valency direction on the dissociation of constants of dibasic acids. C. H. Spiers and J. F. Thorpe. Chem Soc J 127: 538-44 Mr '25

VALENCE—*Continued*
Metallic hydroxy-acid complexes; the constitution of cuprimalates and analogous compounds. I. W: Wark. Chem Soc J 125: 2004-9 O '24
Muconic and hydromuconic acids; valency interchange in the hydromuconic system. E. H. Farmer. Chem Soc J 123:3324-31 D '23
New theory of valency. I. Aucken. Soc Chem Ind J (Chem & Ind) 44:72-3 Ja 23 '25
Parachor and chemical constitution; polar and non-polar valencies in unsaturated compounds. S: Sugden, J: B. Reed and H: Wilkins. bibliog Chem Soc J 127:1525-40 Jl '25; Abstract. Soc Chem Ind J (Chem & Ind) 44:508-9 My 15 '25
Secondary valence in the light of recent researches; alkali polyhalides. G: L. Clark. bibliog Am J Sci 5th ser 7:109-20 F '24
Secondary valence in the light of recent researches; inorganic ammines. G: L. Clark. diag Am J Sci 5th ser 7:1-23 Ja '24
Studies of electrovalency; the catalytic activation of molecules and the reaction of ethylene and bromine. R. G: W. Norrish. diags Chem Soc J 123:3006-18 N '23
Studies of valency; absorption spectra of camphor, benzylidenecamphor, and camphorquinone—optical evidence of two types of conjugation. T: M. Lowry and H. S. French. Chem Soc J 125:1921-7 S '24
Valence and the structure of atoms and molecules. G. N. Lewis. 172p Chemical catalog co. '23; Review by W. D. Bancroft. J Phys Chem 28:514-20 My '24
Valency bond; electrovalence and covalence. S. H. C. Briggs. Philos Mag 6th ser 47:702-13 Ap '24

See also Chemical affinity; Double bond; Radicals (chemistry)

VALERIA home, Westchester county, New York
Special purpose type of summer and winter resort. R. F. Whitehead. il plans Arch Rec 58:320-32 O '25

VALERIC acid
Study of the optimum condition for the preparation of normal valeric acid from butylmagnesium bromide and carbon dioxide. H: Gilman and H. H. Parker. Am Chem Soc J 46:2816-22 D '24

VALHALLA, New York

Bridges
Two parkway bridges planned by engineer and architect; Scarsdale and Valhalla. A. G. Hayden. il diags plans Eng N 95:16-19 Jl 2 '25

VALORIZATION. See Price fixing, Government

VALUATION
Adjusting the books to the appraisal. C. W. Bairstow. J Account 38:379-84 N '24
Appraisals—an accessory to good management. A. B. Hossack. Automotive Ind 53: 672-3 O 15 '25
Appraisals and the profit and loss statement. H. G. Baldwin. Paper Tr J 80:57-60 My 28 '25
Appraisals and their application. L. H. Olson. Paper Tr J 79:59-62 D 18 '24
Appraisals as a means of serving clients. H. G. Baldwin. Spectator 113:33-5 S 11 '24
Appraisals for accounting purposes. Paper Tr J 78:32+ Ja 10 '24
Appraised values: their treatment from an accounting viewpoint. J. H. Worman. J Account 38:384-92 N '24
Credit man on appraisals. J. K. Drake. Credit M 26:8 D '24
Evidence in support of claim for paid-in surplus. Paper Tr J 79:53-4 Jl 31 '24
Middle cost method of determining value. W. D. P. Warren. Munic & Co Eng 68:271-6 Je '25
Modern appraisal or valuation. H. C. Baker, jr. Can Eng 49:523-4 N 3 '25
Principles which should govern the determination of capital and the amounts available for distribution of dividends in the case of corporations, with special reference to the system of capital stocks without a par value. S. Gundelfinger. J Account 37:335-48 My '24
Use of appraisals in determination of the income tax. S. E. Wardwell. Paper Tr J 79: 53-4 Jl 24 '24

See also Coal mines and mining—Valuation; Depletion; Depreciation; Electric utilities—Valuation; Gas, Natural—Valuation; Gas companies—Valuation of property; Inventories; Land values; Mine valuation; Oil companies—Valuation of property; Oil lands—Valuation; Public utilities—Valuation; Railroads—Valuation; Street railroads—Valuation; Waterworks—Valuation; *also* Institute for research in land economics and public utilities

VALUATION of imports. See Tariff—United States

VALUE
Labour theory of value in Karl Marx. H. W: B. Joseph. 176p Oxford '23
Psychological theory of value. G: B. Dibblee. 301p Houghton '24

See also Money; Prices

VALVE gear
Adjusting Westinghouse valve gears in the field. L. Long. il diags Power 61:179-82 F 3 '25
Laying out a reversing valve gear. H. Cornell. diags Power 59:91-2 Ja 15 '24
Selbsttätige einlasssteuerung für dampfmaschinen. G. Stein. diags Zeit Ver Deutsch Ing 69:419-20 Mr 28 '25
Unaflow engine with hydraulic valve gear. il diag Power 62:488-9 S 29 '25
Valve rockers; some fundamental considerations in design. A. Swan. diags Automobile Eng 15:144-6 My '25
Zwangläufige kolbenventilsteuerung patent Proell. F. Lehmann. il diags Zeit Ver Deutsch Ing 68:625-8 Je 14 '24

VALVE setting
Corliss valve setting. Power Pl Eng 28:505 My 1 '24
Hints on valve setting. T: W. Airey. diags Power 58:979-80 D 18 '23
How the valve setting was improved with the aid of the indicator. J. F. Nagle. diags Power 61:838-9 My 26 '25
Locomotive valve setting chart. Ry Mech Eng 99:45 Ja '25
Practical measurements in slide-valve setting. A. J. Nicholas. diag Power 61:826 My 26 '25
Setting steam valves of duplex pump. diags Power 60:412 S 9 '24
Setting valves of double-eccentric Corliss engine. Power 60:912-13 D 2 '24
Setting valves of two-cylinder engine with reversing throttle. diag Power 61:350 Mr 3 '25
Setting valves without plus or minus signs. L. R. Linn. Ry Mech Eng 98:735-6 D '24
Use of indicator essential to correct valve setting. R. McLaren. diags Power 61:109 Ja 20 '25

VALVES
Automatic shut-off valve for oil lines. il Ry Mech Eng 99:312 My '25
Automatic stop and check valve. il Management & Adm 7:97-8 Ja '24
Auxiliary exhaust valves versus additional clearance in back-pressure unaflow engines. P. Langer. diag Power 59:937-9 Je 10 '24
Barco lubricated plug valves. il Power 62:544 O 6 '25; Ry Mech Eng 99:799 D '25
Borsig valve. diags Power 59:580 Ap 8 '24; Power Pl Eng 28:457-8 Ap 15 '24
Breakage of air compressor valves reduced by tempering. H. E. Barr. Am Mach 60: 612 Ap 24 '24
Bristol-Fuller fuel and air control valve. il Management & Adm 6:779 D '23
British apply Lentz valve to bi-flow engines. F. Johnstone-Taylor. diags Power Pl Eng 29:1096 N 1 '25

VALVES—*Continued*
Characteristics of material for valves operating at high temperatures. J. B. Johnson and S. A. Christiansen. il Am Soc T M Pro 24 pt 2:383-400 '24
Check valves. E. W. Riesbeck. diags Dom Eng 111:22-3 Ap 4 '25
Cleveland pneumatic valves for compressed air lines. diag Eng N 95:81 Jl 9 '25
Device for holding vertical check valve open. E. L. Way. diag Power 60:14 Jl 1 '24
Double-beat poppet valve. diag Power 59:67 Ja 8 '24
Flow of steam and condensation as affected by high pressures, horizontal offsets and valves. L: Ebin and R. L. Lincoln. diags Am Soc Heat & V E J 30:475-90 Je '24
How to select a pressure-reducing valve. W: Sommer. diags Heat & Ven 22:59-61 Mr '25
Koehring company announces new balanced valve. il Munic Eng 65:238-9 N '23
Merco Nordstrom plug valve turns in lubricant. il diags Power Pl Eng 29:1074 O 15 '25
Nathan compensated blow off valve. il diag Ry R 73:915 D 22 '23; Same. Ry Mech Eng 98:119 F '24
Neuere heissdampf- und hochdruckschieber. G. W. Koehler. diags Zeit Ver Deutsch Ing 68: 95-100, 468 F 2, My 10 '24
New excess pressure valve made by the S-C regulator co. il Power Pl Eng 29:926 S 1 '25
New line of iron body gate valves by the Lunkenheimer co. il Eng & Min J 120:195 Ag 1 '25
Regulator valve to avoid seat cutting. il diag Power Pl Eng 29:979 S 15 '25
Shockless operation is feature of pendulum actuated valve. il Power Pl Eng 28:1030 O 1 '24
Steam outlet and blowoff valves. il diags Power Pl Eng 28:79-85 Ja 1 '24
Steam specialties. E. W. Riesbeck. il diag Dom Eng 109:30-2+ N 1 '24
Steam-valve actuating mechanism simplified. W: J. Lapworth. il diag Power 62:143-4 Jl 28 '25
Thermodin reducing valve. diag Engineering 119:568 My 8 '25; Gas J (Lond) 171:32 Jl 1 '25
Three types of back-pressure valves. W. H. Wakeman. diags Power 60:337 Ag 26 '24
Triple valves for air brakes. F. H. Colvin. il Am Mach 63:457-60 S 17 '25
Unusual steam-reducing valve. diag Heat & Ven 22:53 My '25
Valve design. Marine Eng 30:416 Jl '25
Valve mechanisms in automatic machinery for handling semi-fluid substances. A. A. Dowd. diags Mach 31:126-9 O '24
Valves for pressures up to 1,350 pounds. il diag Power 59:187 Ja 29 '24
Vertical check valves used as air valves on supply mains. E. Carroll. diags Eng N 94: 859-60 My 21 '25
Wemco water and oil pump valve designed to promote economy. diag Marine Eng 30: 102 F '25
Wrought steel steam valves. il diag Engineer 138:22-3 Jl 4 '24

See also Airplane engines—Valves; Ammonia compressors—Valves; Automobile engines—Valves; Diesel engines—Valves; Locomotives—Valves and valve gear; Safety valves; Slide valves

Electric control

Liberty valve operator. il diags Power 62: 263-4 Ag 18 '25

Manufacture

Adapting handling methods to plant expansion; Chapman valve mfg. co. M: W. Potts. il Ind Management 70:77-82 Ag '25
Case carburizing and hardening valve motion parts. J. E. Burns, jr. il Ry Mech Eng 99: 231-4 Ap '25
Cast iron valve heads can be welded to steel stems at rate of 400 per hour. H. Chase. il diag Automotive Ind 52:533-4 Mr 19 '25
Grinding triple valve seats. il diag Elec Ry J 65:515 Mr 28 '25
Machining poppet valves for gasoline engines. F. Osgood. diags Am Mach 62:723-5 My 7 '25
Machining valves and pipe flanges. C: O. Herb. il diags Mach 31:171-4 N '24
Pottstown valve finishing machine. il Mach 30:729-30 My '24
Valve castings made in steel. P. Dwyer. il diag Foundry 52:579-83+ Ag 1 '24
Welded valves. il Automobile Eng 15:272 Ag '25

Repair

How the valve stem was repaired in an emergency. F. L. Gillmor. diag Power 61:699 My 5 '25
Piston expander for reclaiming feed valves. N. T. Cline. diags Ry Mech Eng 99:644 O '25
Renewing valve-bonnet gasket with the valve under pressure. G. W. Harrison. diag Power 61:700 My 5 '25

Specifications

Standard specifications for rubber pump valves. Am Soc T M Standards 1923:124-6

Standards

New standards proposed. Sanitary & Heat Eng 103:305 My 1 '25; Same. Heat & Ven 22: 83 My '25

Testing

Tests on valve materials made under working conditions. J. B. Johnson and S. A. Christianson. Automotive Ind 51:110-12 Jl 10 '24

VALVES, Hydraulic
Automatic self-closing throttle valve for pipe lines. il diag Engineering 118:143-4 Jl 25 '24
Butterfly valve dosing control for trickling filters. H: R. King. diags Eng N 92:1049-50 Je 19 '24
Butterfly valve, 98-ton. il Am Mach 62:430-1 Mr 12 '25
Drain valve for chemical solution tanks at filter plants. C. L. B. Anderson. diags Eng N 94:661 Ap 16 '25
Edward's automatic self-closing valve. il Can Eng 48:571 Je 9 '25
Foot valve of unusual size. il Power Pl Eng 29:925 S 1 '25
Homeyard hydraulic valve; abstract. il Mech Eng 47:581-2 Jl '25
Homeyard hydraulic valves at the British Empire exhibition. il diags Engineering 117: 745 Je 6 '24
How to keep gate valves tight. Power 60:620; 61:112, 505 O 14 '24, Ja 20, Mr 31 '25
Hydraulic valves for elevators. diags Chem Age (Lond) 13:216-17 Ag 29 '25
Ismailia terminal valve from Egypt used in flush tank and other service. il diag Eng & Contr (W W) 63:1255 Je 10 '25
Judging stop and waste valves. M. J. Weber. diags Dom Eng 108:24 Jl 26 '24
Larner-Johnson hydraulic valves. il diag Elec R (Lond) 95:756-7 N 14 '24
Larner-Johnson penstock valves, 21-ft; Niagara Falls power company. il diags Engineering 119:320-1 Mr 13 '25
Modern water control apparatus. F. Johnstone-Taylor. diags Can Eng 47:371-4 S 30 '24
New type of butterfly valves used on Davis Bridge hydroelectric project. il diags Power 60:358-9 S 2 '24

Control

New device for automatic control of valves. diags Eng & Contr (Equip R) 64:743-4 S 30 '25

Electric control

Electrically-controlled pumping station. il diags Engineering 118:670, 671-2 N 14 '24
Electrically operated hydraulic valves; report of committee of Pacific coast electrical association. diags J Elec 52:463-5 Je 1 '24
Remote operation of valves and gates. R. H. Rogers. il diag Gen Elec R 27:729-35 N '24

Repair

Repair of large gate valves. M. C. Cockshott. diag Power 61:796 My 19 '25

VALVES, Hydraulic—*Continued*

Testing

Hydraulic tests of flap valves on drainage pipe outlets. F. A. Nagler. il Eng N 91:1052-3 D 27 '23

VALVOLINE oil company

Valvoline oil deb. 7s, 1937. Moody's Inv Serv 16:343 S 11 '24

VANADIC acid

Diphenylamine as indicator in the reduction of vanadic acid; determination of vanadium in steels, ferro-alloys, and ores. N. H. Furman. Ind & Eng Chem 17:314-16 Mr '25

VANADIUM

Chemical curiosity put to use; vanadium. Brass W 21:124 Ap '25

Estimation of phosphorus in the presence of vanadium. G. W. Gray and C. D. Garbutt. Engineering 119:717 Je 5 '25

Extraction of vanadium from vanadiferous sandstones. H. A. Doerner. Chem & Met Eng 31:429 S 15 '24

Marketing of vanadium ores and metal. F. L. Hess. il Eng & Min J 118:694-8 N 1 '24

New and known minerals from the Utah-Colorado carnotite region. F. L. Hess. il U S Geol S Bul 750:63-78, pl 4-11 '24

Occurrence and properties of sincosite, a new vanadium mineral from Sincos, Peru. W. T. Schaller. Am J Sci 5th ser 8:462-80 D '24

Occurrence of vanadium and nickel in petroleum. E. DeGolyer. Econ Geol 19:550-5; Discussion. 555-8 S '24

Radium, uranium, and vanadium in 1923. F. L. Hess. Eng & Min J 117:91 Ja 19 '24

Radium, uranium, and vanadium in 1924. F. L. Hess. Eng & Min J 119:93 Ja 17 '25

Vanadium, a chemical curiosity put to use. B. D. Saklatwalla. Blast F & Steel Pl 13: 194+ My '25

Vanadium in iron ores and its extraction. R. von Seth. Eng & Min J 120:51-6 Jl 11 '25

Vanadium in Peru. Brass W 20:313 S '24

Vanadium ores. 72p J. Murray, London '24

See also Rauvite

Analysis

Determination of chromium and vanadium in steel. L. Lindemann. Ind & Eng Chem 16: 1271-2 D '24

Determination of vanadium by reduction with hydrogen peroxide and titration with potassium permanganate. A. W. Hothersall. Soc Chem Ind J 43:270-2 Ag 8 '24

Diphenylamine as indicator in the reduction of vanadic acid; determination of vanadium in steels, ferro-alloys, and ores. N. H. Furman. Ind & Eng Chem 17:314-16 Mr '25

Iodimetric determination of vanadium. A. E. Stoppel, C: F. Sidener and P. H. M.-P. Brinton. Am Chem Soc J 46:2448-53 N '24

Vanadium. J. E. Conley. U S Bur Mines Bul 212:239-77; Bibliography. 278-80 '23

VANADIUM corporation of America

Vanadium corporation of America and its predecessor, the American vanadium company. B. D. Saklatwalla. il Ind & Eng Chem 17:321-2 Mr '25

VANADIUM oxytrichloride

Vanadium oxytrichloride as a solvent. F. E. Brown and J. E. Snyder. Am Chem Soc J 47:2671-5 N '25

VANADIUM steel

Ferro-alloys. F: M. Becket. Ind & Eng Chem 16:203-4 F '24; Same. Chem & Met Eng 30:392-3 Mr 10 '24

Refining metals electrically. L. J. Barton. Foundry 53:272-4 Ap 1 '25

Das vanadin in baustählen. R. Hohage and A. Grützner. Stahl & Eisen 44:1713-17 D 18 '24

Vanadium steel shows strength. H. H. Perry. il Iron Tr R 75:1228+ N 6 '24

Zur kenntnis der vanadinstähle. E. Maurer. Stahl & Eisen 45:1629-32 S 24 '25

Testing

Resistance of metals to repeated static and impact stresses. R. R. Moore. il Am Soc T M Pro 24 pt 2:547-73 '24

VAN ARSDALE, George Dawes, 1874-

Metallurgists of note. Eng & Min J 118:684 N 1 '24

VANCOUVER, British Columbia

Rapid transit

City subsidizes bus line. il map plan Bus Transportation 3:75-7 F '24

VANCOUVER, Washington

Harbor

Ports of Portland and Astoria, Oregon, and Vancouver, Washington. 238p U.S. Engineer dept., Board of engineers for rivers and harbors, Washington '25

VANDERBILT, William K.

Monograph of the William K. Vanderbilt house, Richard Morris Hunt, architect, by John Vredenburgh Van Pelt. Review by A. W. Colton. il Arch Rec 58:295-9 S '25

VANDERBILT, Mrs William K.

Two notable houses on Sutton place, New York; the homes of Mrs. W. K. Vanderbilt and Anne Morgan. il plans Arch Forum 41: 49-60, pl 17-24 Ag '24

VANE-wheel propulsion. See Ship propulsion

VANES. See Weather vanes

VANILLA

Identification of sources of vanilla extracts. C. B. Gnadinger. Ind & Eng Chem 17:303-4 Mr '25

Suitability of various solvents for extracting vanilla beans. J. B. Wilson and J. W. Sale. Ind & Eng Chem 16:301-3; 17:506-7 Mr '24, My '25

VANILLIN

Condensation of the isomeric tolyl-2-thio-4-keto-thiazolidines (rhodanic acids) with substituted vanillins. R. M. Hann. Am Chem Soc J 47:1998-2002 Jl '25

Solubilities of vanillin. C. E. Mange and O. Ehler. Ind & Eng Chem 16:1258-60 D '24

VANOXITE

New and known minerals from the Utah-Colorado carnotite region. F. L. Hess. U S Geol S Bul 750:63-7 '25

VAN SLYKE, Lucius L.

American contemporaries. R. W. Thatcher. por Ind & Eng Chem 17:1203 N '25

VAN SWERINGEN system

Group railroad buying power. E. C. Barringer. il Iron Tr R 76:625-6 Mr 5 '25

Hearing on Nickel Plate. Ry Age 78:983-4, 1037-40, 1085-6, 1158, 1221-2, 1266-7, 1336-7, 1380-4, 1594, 1636; 79:180-2, 233-4, 271, 703-4, 759-60, 814-16, 844 Ap 18-Je 6, 20-27, Jl 25-Ag 8, O 17-N 7 '25; Comm & Fin Chr 120:2765-6 My 30 '25; Ry R 77:134-5 Jl 25 '25

Huge railroad merger of five lines extending 9600 miles and valued at $1,500,000,000. map Manuf Rec 86:107 S 4 '24

It isn't just money to him. J. L. Wright. Nation's Business 13:28-9 O '25

Joining railroads their own way. R: Waterman. maps Nation's Business 12:52+ O '24

Nickel Plate merger stocks. Moody's Inv Serv 17:315 S 24 '25

Proposal by O. P. and M. J. Van Sweringen for the unified control and operation of the railroads of the New York, Chicago and St Louis railroad company, the Chesapeake and Ohio railway company, the Hocking Valley railway company, Erie railroad company and Pere Marquette railway company. Comm & Fin Chr 119:1183-5 S 6 '24

Van Sweringens and the Erie. J. H. McMullen. Comm & Fin 13:525-6 Mr 12 '24

Van Sweringens picked Bernet to win—why. W: A. McGarry. map Forbes 15:219-21+ N 15 '24

Van Sweringens propose a mighty railroad merger. map Ry R 75:231-3 Ag 16 '24; Ry Age 77:381-4, 421-3 Ag 30-S 6 '24

VAPOR-air mixtures

Apparatus for preparing vapor-air mixtures of constant composition. W. P. Yant and F. E. Frey. diags Ind & Eng Chem 17:692-4 Jl '25

VAPOR pressure

Committee recommends present testing method for testing vapor tension of natural gasoline for shipment in tank cars. Nat Pet N 17:107+ My 27 '25

Contribution to the kinetic theory of vaporization. S: C. Bradford. Philos Mag 6th ser 48:936-47 N '24

Criticism of the distillation method of measuring vapour pressure. L. J: Hudleston. Chem Soc J 125:1558-9 Ag '24

Determination of the vapour pressures of caesium and rubidium, and a calculation of their chemical constants. D. H. Scott. diag Philos Mag 6th ser 47:32-50 Ja '24

Dissociation pressures of hydrated double sulphates; various double sulphates of the type $M^{\cdot\cdot}SO_4.M^{\cdot}_2SO_4.6H_2O$. R. M. Caven and J: Ferguson. Chem Soc J 125:1307-12 Je '24

Effect of a non-volatile solute on the partial pressures of liquid mixtures at the boiling point. B. H. Carroll, G. K. Rollefson and J. H. Mathews. diags Am Chem Soc J 47: 1785-91 Jl '25

Entropies of the vapors of zinc and lead. W. H. Rodebush and A. L. Dixon. Am Chem Soc J 47:1036-43 Ap '25

Estimation of acetone in presence of alcohol by a vapor pressure method. E. A. Vuilleumier. Ind & Eng Chem 17:174 F '25

Graphical vapor pressure and specific gravity tables. H. G. Deming. Ind & Eng Chem 16: 614-15 Je '24

Hydration of salts and their effect on the vapour pressure of water. N. V. Sidgwick and E. K. Ewbank. Chem Soc J 125:2273-5 N '24

Measurement of the vapour pressures of aqueous salt solutions by the depression of the freezing point of nitrobenzene. N. V. Sidgwick and E. K. Ewbank. Chem Soc J 125:2268-73 N '24

Measurement of vapor tension of gasoline and other liquids. H. S. Davis. diag Ind & Eng Chem 17:1136-8 N '25

Metals in the gaseous state. C. H. M. Jenkins. Engineer 140:sup106-9, sup115-18 Jl 31-Ag 28 '25

Method of calculating the vapour pressure of a solution with a simple solvent and a non-volatile solute. S. B. Mali. Philos Mag 6th ser 50:141-5 Jl '25

Partial formaldehyde vapour pressures of aqueous solutions of formaldehyde. E. W: Blair and W. Ledbury. diag Chem Soc J 127:26-40 Ja '25

Partial pressure of water out of aqueous solutions of sulfuric acid. C. H. Greenewalt. bibliog Ind & Eng Chem 17:522-3 My '25

Partial pressures of sulphuric acid over concentrated aqueous solutions of the acid at high temperatures. J: S. Thomas and A. G: Ramsay. diag Chem Soc J 123:3256-70 D '23

Partial vapor pressures of aqueous HCL solutions. F. C. Zeisberg. Chem & Met Eng 32:326-7 F 23 '25

Physical properties of the paraffin hydrocarbons. R. E. Wilson and W. H. Bahlke. Ind & Eng Chem 16:115-17 F '24

Preparation, freezing point and vapor pressure of hydrogen fluoride. J. Simons. diags Am Chem Soc J 46:2179-83 O '24

Pressure-temperature charts for organic vapors. D. S. Davis. Ind & Eng Chem 17:735-6 Jl '25

Properties of aqua ammonia. T: A. Wilson. diags Refrig Eng 10:248-52 Ja '24

Properties of phosgene solutions; vapor tension curves of aluminum chloride solution at 0° and at 25°. A. F. O. Germann and G. H. McIntyre. J Phys Chem 29:102-5 Ja '25

Properties of pure hydrogen peroxide; vapor pressure. O. Maass and P. G. Hiebert. diag Am Chem Soc J 46:2693-2700 D '24

Relation between deviations from Raoult's law and the partial heats of solution. J. A. V. Butler. Am Chem Soc J 47:117-22 Ja '25

Relation between vapor pressure and vapor composition in binary mixtures of volatile liquids. W. K. Lewis and E. V. Murphree. Am Chem Soc J 46:1-7 Ja '24

Report of investigations on methods of determining the vapor pressure of gasoline for transportation classification. H. L. Shoemaker. Am Pet Inst Bul 5:99-104 D 31 '24; Same cond. Nat Pet N 17:87-8+ Ja 14 '25; Discussion. Am Pet Inst Bul 5:104-7 D 31 '24

So-called metal ammoniums; the vapor pressures of solutions of lithium in liquid ammonia. C: A. Kraus and W. C. Johnson. Am Chem Soc J 47:725-31 Mr '25

Studies in vapor pressure; the nitro-anilines. J. F. T. Berliner and O. E. May. Am Chem Soc J 47:2350-6 S '25

Total and partial vapor pressures of aqueous ammonia solutions. T: A. Wilson. diags Ill U Eng Exp Sta Bul 146:1-48 '25

Vapor pressure curves for systems containing alcohol, ether, and water. E. A. Louder, T. R. Briggs and A. W. Browne. diag charts Ind & Eng Chem 16:932-5 S '24

Vapor-pressure lowering as a function of the degree of saturation. I: Bencowitz. J Phys Chem 29:1432-52 N '25

Vapor-pressure lowering of aqueous sulfuric acid solutions at 25°. A. Grollman and J. C. W. Frazer. Am Chem Soc J 47:712-17 Mr '25

Vapor pressure of aqueous solutions of nitric acid. G. B. Taylor. bibliog Ind & Eng Chem 17:633-5 Je '25

Vapor pressure of arsenious oxide. P. Smellie. diags Soc Chem Ind J 42:466-8 D 7 '23

Vapour pressure of binary mixtures. J. Brown. Soc Chem Ind J 44:162 Ap 3 '25

Vapour pressure of cadmium and its alloys with zinc. A. C: Egerton and F. V: Raleigh. Chem Soc J 123:3024-32 N '23

Vapour pressure of hydrochloric acid. J: S. Dunn and E. K. Rideal. Chem Soc J 125: 676-84 Mr '24; Abstract and discussion. Soc Chem Ind J (Chem & Ind) 43:91 Ja 25 '24

Vapor pressure of organic solutions; an application of Dühring's rule to calculation of equilibrium diagrams. E. H. Leslie and A. R. Carr. diag Ind & Eng Chem 17:810-17 Ag '25

Vapor pressure of sodium. W. H. Rodebush and T: DeVries. diag Am Chem Soc J 47: 2488-93 O '25

Vapour pressure of the crude oil of Maidan-i-Naftun and its products. W. H. Cadman. il diags Inst Pet Tech J 10:947-53 D '24

Vapor pressures and boiling points of mono- and dimethylanilines and mono- and diethylanilines. O. A. Nelson and H. Wales. Am Chem Soc J 47:867-72 Mr '25

Vapour pressures of binary and ternary fuel mixtures. J. S. Lewis. diag Inst Pet Tech J 11:152-70 Ap '25; Abstract. Engineering 119: 587 My 8 '25; Discussion. Inst Pet Tech J 11:170-6 Ap '25

Vapour pressures of fuming sulphuric acid, and their application to the problem of the absorption of sulphur trioxide. J. W. McDavid. Soc Chem Ind J 43:57-61 Mr 21 '24

Vapor pressures of gasolines and light petroleum naphthas. F. H. Rhodes and E. B. McConnell. diag Ind & Eng Chem 15:1273-5 D '23

Vapor pressures of glycerol-water and glycerol-water-sodium chloride systems. A. R. Carr, R. E. Townsend and W. L. Badger. Ind & Eng Chem 17:643-6 Je '25

Vapor pressures of lithium chloride solutions at 20°. B. F. Lovelace, W. H. Bahlke and J. C. W. Frazer. diags Am Chem Soc J 45:2930-4 D '23

Vapour pressures of monatomic substances. A. C. Egerton. Philos Mag 6th ser 48:1048-54 D '24

Vapor pressures of organic crystals by an effusion method. T: H. Swan and E: Mack, jr. bibliog diag Am Chem Soc J 47:2112-16 Ag '25

Vapor pressures of Rochelle salt, the hydrates of sodium and potassium tartrates and their saturated solutions. H. H. Lowry and S. O. Morgan. Am Chem Soc J 46:2192-6 O '24

VAPOR pressure—*Continued*

Vapor pressures of solid and liquid cyanogen. J: H. Perry and D. C. Bardwell. Am Chem Soc J 47:2629-32 N '25

Vapor pressures of some liquid and solid metals. R. W. Millar. Ind & Eng Chem 17:34-5 Ja '25

Vapor pressures of the common metallic chlorides and a static method for high temperatures. C. G. Maier. diags U S Bur Mines Tech Pa 360:1-54 '25

Vapor tension at low temperatures. N. T. Bacon. Am Inst Chem Eng Trans v 14:211-17; Discussion. 217-19 '21-'22

Vapour tensions of the normal paraffins. A. A. Ashworth. Inst Pet Tech J 10:787-802 N '24

VAPORIZATION

Contribution to the kinetic theory of vaporization. S: C. Bradford. Philos Mag 6th ser 48:936-47 N '24

De la vaporisation dans les procédés de séchage sous vide. A. Martin. Chimie & Ind 13:3-8 Ja '25

Equilibrium vaporization of gasoline. R. Stevenson and H. J. Stark. il diags Ind & Eng Chem 17:679-85 Jl '25

Pressure-volume-temperature relation for gaseous ethyl ether. J. A. Beattie. diags Am Chem Soc J 46:342-57 F '24

Vapor pressures of glycerol-water and glycerol-water-sodium chloride systems. A. R. Carr, R. E. Townsend and W. L. Badger. Ind & Eng Chem 17:643-6 Je '25

Vaporization of liquid mixtures. J. F. King and S. P. Smedley. diags J Phys Chem 28: 1265-72 D '24

VAPORIZATION, Heat of

Calorimeter for measuring specific heats and heats of vaporization of liquids; the specific heat and heat of vaporization of liquid ethyl ether at 0° and 12°. F: G. Keyes and J. A. Beattie. diags Am Chem Soc J 46:1753-[illegible] Ag '24

Equilibrium [illegible]-boiling-point and latent heat of vaporization of motor fuels. W. R. Ormand[illegible] T. C. Craven. Inst Pet Tech J 9:368-[illegible]

Estimation [illegible] heats of vaporization of liquids [illegible] pressures. W. H. McAdams and [illegible] bibliog Ind & Eng Chem 16:37[illegible] '24

Heat [illegible] state. il Am Gas J 123: 267-8 S 20 '25

Heat of vaporization, a function of the temperature. M. M. Green. Am Chem Soc J 46:544-5 Mr '24

Physical properties of the paraffin hydrocarbons. R. E. Wilson and W. H. Bahlke. Ind & Eng Chem 16:117-19 F '24

VAPORIZERS

Hill new fuel vaporizer. diags Automotive Ind 53:516 S 24 '25

Holley vaporizer permits use of any grade of fuel. W. L. Carver. il Automotive Ind 52: 698-9 Ap 16 '25

VAPORS

Coefficients of diffusion of certain alkali salt vapors in the Bunsen flame. G: E. Davis. diags Phys R 24:383-95 O '24

Diffusion of mercury and of iodine vapours through nitrogen. J. M. Mullaly and H. Jacques. diag Philos Mag 6th ser 48:1105-22 D '24

How gases and vapors match up. diag Power 62:583 O 13 '25

New energy relation governing liquids and vapors. J. E. Mills. J Phys Chem 29:68-73 Ja '25

Temperature of vapor above boiling salt solutions. K. Schreber. diag Chem & Met Eng 31:297-9 Ag 25 '24; Discussion. 32:327-9 F 23 '25

See also Adsorption; Evaporation; Gases; Steam; Steam flow; Vapor pressure; Vaporization; Water vapor

VARNISH analysis

Determination of free fatty acid in bodied linseed varnishes and oils. L: M. Larsen and W: J. Young. Ind & Eng Chem 17:277 Mr '25

VARNISH and varnishing

Albertol for spirit varnishes. E. Fonrobert and C. Marx. Chem Age 32:167-8, 221-3 Ap-My '24

Automobile finishing varnishes. W. T. Pearce. Ind & Eng Chem 17:806-8 Ag '25

Best ways to use insulating varnish. H. L. Hazeltine. il Ind Eng 82:123-6+, 183-6+, 284-7+, 333-7+ Mr-Ap, Je-Jl '24

Causes of surface checks in wood in varnish-drying rooms. H. D. Tiemann. il Soc Auto Eng J 15:431-6 N '24; Discussion. 16:523-7 My '25

Chemical problems in insulating varnishes. H. C. P. Weber. Ind & Eng Chem 17:11-14 Ja '25

Chemistry of paints, pigments and varnishes. J. G. Bearn. 277p Van Nostrand '23

Colloid chemistry of color varnish. F. E. Bartell and M. Van Loo. il diags Ind & Eng Chem 17:925-9, 1051-6 S-O '25

Colours and varnishes. C: Coffignier. 258p Van Nostrand '25

Composition and aging of insulating varnishes. H. C. P. Weber. Am Electrochem Soc Trans v 44 (preprint 16):167-70 S '23; Same. Elec W 83:96 Ja 12 '24; Abstract. Ind Eng 83:204 Ap '25

Driers: simple and compound. E. Perry. Oil Paint & Drug Rep 105:20+ Ja 21; 20+ Ja 28; 20+ F 4; 20+ F 11; 20+ F 18; 20+ F 25; 20+ Mr 3; 20+ Mr 10; 20+ Mr 17; 20+ Mr 24; 20+ Mr 31; 20+ Ap 7; 20+ Ap 14 '24

Drying-time meter for varnishes. J. McE. Sanderson. Automotive Ind 53:183 Jl 30 '25

Enamels. F. Singleton. Soc Chem Ind J (Chem & Ind) 44:24-5 Ja 9 '25

Examen microscopique des gommes à vernis. P. Nicolardot and C: Coffignier. il Chimie & Ind 11:456-68 Mr '24

Gas for varnish and gum making. A. Morgan. Gas J (Lond) sup 4:61-2 Mr 25 '25

Laboratory experimental work on ester gum. F. M. Beegle. Ind & Eng Chem 16:953-5 S '24

Nature and composition of insulating varnishes. Coal Age 25:221 F 7 '24

Physical and chemical examination of paints, varnishes, and colors. H: A. Gardner. 2d ed. 376p Institute of paint and varnish research, Washington '25

Problems of the paint chemist in the production of white enamels. R. Cowen. Chem Age 31:509-10 N '23

Radiant heating system; furnace construction for the varnish industry. diags Chem & Met Eng 30:279 F 18 '24

Value of cryoscopy in the technical investigation of varnishes. H. E. Hofmann. Ind & Eng Chem 17:175-6 F '25

Varnish cooking using surface combustion equipment. A. M. Apmann. il diag Gas Age 53:19-21 Ja 5 '24

Varnish makers' formulary. E. Perry. Oil Paint & Drug Rep 105:20+ Ap 21; 20+ Ap 28; 20+ My 5; 20+ My 12; 20+ My 19; 20+ My 26; 20+ Je 2; 20+ Je 9; 20+ Je 16; 20+ Je 23; 20+ Je 30; 106:20+ Jl 7; 20+ Jl 14; 20+ Jl 21; 20+ Jl 28; 20+ Ag 4; 20+ Ag 11; 20+ Ag 18; 20+ Ag 25; 20+ S 1; 20+ S 8; 20+ S 15; 20+ S 22; 20+ S 29; 20+ O 6; 20+ O 13; 20+ O 20 '24

Varnishes and their components. R. S. Morrell. 361p [bibliog. p. 349-50] Oxford '23; Review. Engineering 117:153-4 F 1 '24

Varnishes, their chemistry and manufacture. C: Coffignier. 556p Van Nostrand '23

See also Duco finish; Japanning; Lacquer and lacquering; Rosin; Shellac; Tung oil; Turpentine substitutes

Specifications

Paint and varnish specifications. H. H. Morgan. Chem Age (Lond) 11:395 O 18 '24

Testing

Directions for the study of electrical insulating varnishes, paints and enamel paints. Inst E E J 62:936-40 N '24

Electrical insulating varnishes. J. A. Findley, D. Harvey and S. T. Rodgers. Am Soc T M Pro 23 pt 2:423-31 '23

VARNISH and varnishing—Testing—*Continued*
Further study of accelerated weathering—effect of variations in exposure cycle combinations of common types of varnishes. H. A. Nelson and F. C. Schmutz. il Am Soc T M Pro 24 pt 2:920-42 '24
Insulating varnish tests that are easy to make. H. L. Hazeltine. il Ind Eng 82:381-5+ Ag '24
Interpretation of the water test for varnish. E. A. Stoppel. Am Soc T M Pro 24 pt 1: 455-60 '24
Laboratory tests on finishes. H. C. Mougey. il diag Ind & Eng Chem 17:411-12 Ap '25
Methods of controlling varnish tests. J. A. F. Wilkinson and E. F. Figg. Chem Age (Lond) 11:523; Discussion. 523-4 N 22 '24
Physical tests on some commercial varnishes. H. A. Gardner and H. C. Parks. Am Arch 126:523-4 D 3 '24
Tests for hardness, gloss, color and leveling of varnishes. Automotive Ind 53:254 Ag 13 '25
Tests of insulating varnishes. Coal Age 25: 330-1 F 28 '24
Varnish makers' formulary. E. Perry. Oil Paint & Drug Rep 106:20+ Ag 4; 20+ Ag 11; 20+ Ag 18 '24
Varnish studies; relationships of physical tests and chemical composition to durability. W. T. Pearce. il Ind & Eng Chem 16: 681-4 Jl '24

VARNISH industry and trade

Advertising

Capitalizing past prestige to open new markets; Murphy varnish company. F. Murphy. il Ptr Ink M 10:39-40+ Je '25
How a direct-mail campaign is sold to salesmen and retailers. C. Stirling. Ptr Ink M 8:40-2+ Ap '24

VARNISHED cotton fabrics. See Cotton fabrics, Varnished

VARNISHED fabric tubes. See Tubes, Varnished fabric

VASELINE. See Petrolatum

VASES, Greek
Dynamic symmetry as applied to pottery. G. M. A. Richter. il diags Am Cer Soc J 8: 131-7 Mr '25

VASSAR college library

Justice collection

Justice collection of material relating to the periodical press. L. M. Salmon. Special Lib 16:310-15 O '25

VAT dyes. See Dyes and dyeing—Vat dyes

VATERITE
Vaterite and μ-calcium carbonate. R. E: Gibson, R. W. G. Wyckoff and H. E. Merwin. il Am J Sci 5th ser 10:325-33 O '25

VAULTS
Buenos Aires bank installs American vault. il Am Exporter 95:25+ S '24
Chicago's largest and most modern safety deposit vaults. il Bankers M 110:183-91 Ja '25
Manufacturing safes and vaults. J. A. Criswell. il Bankers M 109:354-6 Ag '24
Notable vault installation. il Bankers M 111: 128-32 Jl '25
Outwitting the safe-breaker. H. R. Simonds. il Iron Tr R 74:415-19 F 7 '24
Protection of records. H. P. Weaver. Safety Eng 48:14-18 Jl '24
Unusual vault installation. il Bankers M 109: 709-10 O '24

See also Safes

VAULTS, Concrete
Specifications for concrete bank vaults. diags Arch & Bldg 56:87-9 S '24

VAUX-LE-VICOMTE, France
Beautiful estate in France. P. H. Elwood, jr. il Am Arch 127:531-4 Je 17 '25

VECTOR analysis
Advanced vector analysis, with application to mathematical physics. C: E. Weatherburn. 222p Bell & sons, ltd., London; Open court pub. co., Chicago '24
Alternating currents and transients, treated by the rotating vector method. F. M. Colebrook. 195p McGraw-Hill '25
Dissimilar transformers in delta; vector solution. J. B. Gibbs. diags Elec J 22:121-2 Mr '25
From determinant to tensor. W: F. Sheppard. 127p Oxford '23
Induction motors on unbalanced circuits; vector methods of analysis of unsymmetrical systems. A. M. Dudley. Elec J 21:339-43 Jl '24
Phasing out synchronous motors. J. A. Caparo. diags Power Pl Eng 28:1101-2 N 1 '24
Vector analysis. C. Runge. 226p Dutton '23
Vector diagrams for long lines. E. A. Loew. Elec W 83:477-80 Mr 8 '24
Vector treatment of long transmission lines. S. Holmes. bibliog Inst E E J 62:471-6 My '24

See also Tensors

VECTORS
Vector-ruling protractor. A. F. Zahm. il diags J Fr Inst 197:209-15 F '24

VEDDER process. See Petroleum—Water problem

VEGETABLE chars. See Norit

VEGETABLE oils. See Oils and fats

VEGETABLES
Freezing temperatures of some fruits, vegetables and cut flowers. R. C. Wright and G: F. Taylor. Refrig Eng 11:268-70 Ja '25

See also Drying (fruit and vegetables); Potatoes

Transportation

Transportation of Pacific coast perishables. A. L. Cricher. maps U S Bur For & Dom Com Trade Promotion ser 12:1-91 '24

See also Freight, Perishable; *also* American fruit and vegetable shippers' association

VEHICLES
Production of horse-drawn vehicles for 1923. Eng & Contr (R & S) 63:240 F 4 '25
Les variations de l'accélération des véhicules. G. Puica and J. Keraval. il diags Génie Civil 86:404-9 Ap 25 '25

See also Automobiles; Cars; Cycle cars; Electric vehicles; Jitney buses; Motor buses; Motor cycles; Motor trucks; Motor vehicles

VELOCITY

See Chemical reaction—Velocity; Light—Velocity; Railroads—Train speed; Rotation; Ships—Speed; Speed variation

VENABLE, Francis Preston
American contemporaries. J. M. Bell. por Ind & Eng Chem 16:755 Jl '24

VENDOR'S warranty. See Warranty

VENEZUELA
Clothing and other personal effects should be taken to Venezuela. A. Knapp. Nat Pet N 17:187+ My 13 '25

See also Geology—Venezuela; Gold mines and mining—Venezuela; Hydroelectric plants—Venezuela; Petroleum—Venezuela; Petroleum industry and trade—Venezuela; Wages—Venezuela

Commerce

Caribbean markets for American goods; Venezuela. W. D. Brown. U S Bur For & Dom Com Trade Information Bul 357:1-16 '25

Economic conditions

Situation in Venezuela. Economist 99:339-40 Ag 30 '24

VENICE, Italy

Harbor

New harbour of Venice. map Engineer 137: 205-6 F 22 '24; Same. Eng & Contr (Ry) 62:627-30 S 17 '24

VENTILATING hoods
Patterns for heavy sheet metal work by computation. W: Neubecker. diags Sheet Metal Worker 14:894-5+, 950+ D 21 '23-Ja 4 '24

VENTILATION

Aerology for amateurs and others. E. V. Hill. diags Heat & Ven 21:53-6 Ja '24

Air we breathe. A. G. King. il diags Dom Eng 112:21-3+ Jl 25 '25

American society of heating and ventilating engineers guide, 1924-25. 458p v. 3 American soc. of heating and ventilating engineers, 29 W. 39th st., New York '24

Atmosphere and its relations to human health and comfort. C.-E. A. Winslow. Am Soc C E Pro 51:794-810 My '25; Discussion. 51: 1160-5 Ag '25

Business possibilities in ventilation. I. C. Baker. il Sheet Metal Worker 15:205-6 Ap 11 '24

Customers seek our cool building to do summer-time buying. I. H. Hartman. il System 48:94+ Jl '25

Deciding factors of adequate ventilation. W. J. McConnell. Am Soc Heat & V E J 31: 367-70 Jl '25

Duct work in connection with ventilation. C. W. Kimball. Arch Forum 41:33-5 Jl '24; Same. Eng & Contr (Bldgs) 62:1366-70 D 24 '24

Early scheme for heating and ventilating the U.S. Capitol. il diag Heat & Ven 21:64-5 O '24

Efficiency of various kinds of ventilating ducts. C: E: A. Winslow and L. Greenburg. 10p U.S. Pub. health service, Washington '23

Emotional excitement and its effect on temperature rise in exhaled air. S. H. Woodbridge. chart Heat & Ven 22:66-7 F '25

Fuel of the future—what shall it be? I. Ginsberg. Am Gas J 120:333-7 Ap 12 '24

Heating and ventilating of new Masonic temple, Davenport, Iowa. F. T. Tyler. plans Am Arch 127:295-7 Mr 25 '25

Hygiene of the pulp and paper industry. F. G. Pedley. bibliog J Ind Hygiene 6:70-9 Je '24

Industrial applications of ozone. F. E. Hartman. il diags Am Soc Heat & V E J 30:711-27 N '24

Location of ventilating units. C. L. Hubbard. diags Sanitary & Heat Eng 104:68-9 Ag 7 '25

Meeting unusual requirements in a lodge building; Springfield (O.) Masonic temple, ventilated by displacement. S: R. Lewis. diags plans Heat & Ven 22:49-59 O '25

Modern home kitchen: its ventilation requirements. A. L. Greene. il Nation's Health 6:19-21 Ja '24

Modern trend in the science of ventilation. P. West. charts Am Soc Heat & V E J 30:421-38 Je '24; Abstract. Heat & Ven 21:71-3 Jl '24

Outline of instruction in sanitation heating and ventilation. C. B. Connelly. il Sanitary & Heat Eng 102:122-3+ Ag 22 '24

Ozone and its use in ventilation. F. E. Hartman. il charts diag Am Soc Heat & V E J 30:365-82 My '24; Abstract. Heat & Ven 21: 69-71 Jl '24

Principles of ventilation in hot industries. K. J. Fanshier. Gas Age 56:671-2+ N 7 '25

Recirculation of air in ventilation. E. S. Hallett. Am Soc Heat & V E J 29:647-51 N '23

Reducing the costs of ventilation. C. W. Kimball. diags Arch Forum 40:221-4 My '24; Same. Eng & Contr (Bldgs) 62:443-8 Ag 27 '24

Solving industrial ventilation problems. J. C. Kernchen. il diag Sheet Metal Worker 15: 795-6+ N 7 '24

Some comments on present day heating and ventilating practice. W. S. Timmis. charts Am Soc Heat & V E J 30:395-403 My '24

Tendency towards concealed ducts in ventilating. diags Sheet Metal Worker 15:965+ Ja 2 '25

Unknown factors in heating and ventilation. A. H. Barker. Engineering 119:201-2 F 13 '25

Use of ozone in residence heating. E. S. Hallett. Heat & Ven 22:83 My '25

Ventilating the kitchen. T: L. Kennedy. il Bldg Age 47:108 Jl '25

Ventilation. D. D. Kimball. Sibley J 37:197-8+ N '23

Ventilation of locker rooms. J. H. Ritchie. diag plan Arch Forum 42:197-8 Mr '25

Ventilation of offices, kitchens, laundries, and industrial plants. E. W. Riesbeck. diags Dom Eng 108:26-7 Jl 26 '24

Ventilation of public rooms. W. A. Evans. Dom Eng 110:23 F 28 '25

What is ventilation? P. West. Am Soc Heat & V E J 31:477-85 O '25

Work tests conducted in atmospheres of high temperatures and various humidities in still and moving air. W. J. McConnell and C. P. Yagloglou. Am Soc Heat & V E J 31:35-57 Ja '25

See also Air conditioning; Air conditions; Air filters; Air flow; Air pollution; Air washers; Chimneys; Cooling; Dust removal; Electric fans, Ventilating; Electric generators, Alternating current—Cooling; Electric machinery—Cooling; Electric motors—Cooling; Electric motors, Railway—Cooling; Electric substations—Ventilation; Exhaust systems; Fans, Mechanical; Flues; Gas appliances—Ventilation; Heating; Heating, Fan blast; Humidity; Mechanical equipment of buildings; Mine ventilation; Motor buses—Ventilation; Ozone; Subways—Ventilation; Tunnel ventilation; Ventilators; *also* subdivision Heating and ventilation under various subjects, e.g. Bank buildings; Barns and stables; Basements; Department stores; Dyehouses; Electric plants (central stations); Factories; Foundries; Garages; Hotels; Moving picture theaters; Office buildings; Paper mills; Power plants; Schoolhouses; Ships; Textile mills; Theaters; *also* American society of heating and ventilating engineers

Laws and regulations

Heating and ventilating code of Wisconsin. Dom Eng 105:574-6 D 22 '23; 106:26-8 Ja 12; 31-2+ F 9 '24; Excerpts. Heat & Ven 21:84-7 F '24

Rules supplement to ventilating code. R. A. Small. Sheet Metal Worker 15:245 Ap 25 '24

Why not more theatre ventilation? R. C. Nason. Sheet Metal Worker 16:584-5 S 11 '25

Wisconsin's revised heating and ventilation code. Heat & Ven 22:86-7 My; 74-5 Je; 89-91 Jl; 76-9 Ag; 90-1 S '25; Excerpts. Sanitary & Heat Eng 104:114-15+, 182-4+, 212-13+, 281-3 Ag 21, S 18-O 2, 30 '25

Specifications

Outline of tentative specifications for ozonized air system. Am Arch 126:547-8 D 3 '24

Standards

Standards of ventilation. C. L. Riley. Am Soc Heat & V E J 29:683-6 D '23

Study and teaching

New York university's course in heating and ventilation. Heat & Ven 22:83-4 O '25

Tables, calculations, etc.

Artschaubilder und auswahl von lüftern. M. Berlowitz. Zeit Ver Deutsch Ing 69:36-40, 127-31 Ja 10, 31 '25

Chart for determining the weight of moist air. J: E. Younger Mech Eng 47:492-4 Je '25; Same. Refrig Eng 11:434-7 Je '25

Effective temperature applied to industrial ventilation problems. C. P. Yagloglou and W. E. Miller. charts Am Soc Heat & V E J 30: 515-39 Jl '24

See also Air flow

Terminology

Definitions of common terms used in heating and ventilating practice. Heat & Ven 21: 66 Ap '24

VENTILATION research

Laboratories of ventilation and illumination, Harvard school of public health, Boston. P. Drinker. bibliog il diags J Ind Hygiene 6: 57-66 Je '24

VENTILATORS
May-June the season for farm ventilator sales. il diag Sheet Metal Worker 16:263-4+ My 22 '25
Profit possibilities in roof ventilators. il Sheet Metal Worker 15:125+ Mr 14 '24
Test of roof ventilator installation in converter sub-station of New York Central railroad. il Heat & Ven 21:78 D '24; Sheet Metal Worker 15:968 Ja 2 '25

VENTURI flume
Improved Venturi flume. R. L. Parshall. il diag Am Soc C E Pro 51:1340-9 S '25; Discussion. 51:2028-31; 52:102-6, 303-18, 470-2 D '25-Mr '26
Open-end flume water meter based on exponential equation. J. W. Ledoux. diags Eng N 93:505-6 S 25 '24

VENTURI meter
Flow of water in Tulsa 60-in. and 54-in. concrete pipe line. F. C. Scobey. il Eng N 94:894-7; 95:442 My 28, S 10 '25
Obstructed venturi meter. R. W. Angus. il Power 61:532-3 Ap 7 '25
Practical applications of hydraulic principles. R. T. Livingston. diags Power Pl Eng 29: 294-5 Mr 1 '25
Venturi meter for ammonia. diag Power 60: 700-1, 775-6 O 28, N 11 '24
Venturi meters in refrigerating plants. E. S. Smith, jr. Refrig Eng 10:283-4 Ja '24
Venturi meters used in hydro-electric plant operation. J. M. Gaylord. il diags Power 62: 137-8 Jl 28 '25
Venturi water-meter for pulsating flow. il diags Engineering 117:8-9 Ja 4 '24

VENTURI speed controller
Venturi speed controller for dry chemical feed devices. E. S. Smith, jr. and C. G. Richardson. il Eng N 92:844-5 My 15 '24

VERATRYLNORHYDROHYDRASTININE
Synthetical experiments in the *iso*quinoline group. R. D. Haworth and W: H: Perkin, jr. Chem Soc J 127:1448-53 Je '25

VEREINS deutscher eisenhüttenleute
Bericht über die hauptversammlung des Vereins deutscher eisenhüttenleute am 29. und 30. November 1924 in Düsseldorf. Stahl & Eisen 44:1597-1611 D 11 '24
Ueber die tätigkeit des Vereins deutscher eisenhüttenleute im jahre 1924. Stahl & Eisen 44:1557-66 D 4 '24

VERMONT
See Hydroelectric plants—Vermont; Water supply—Vermont

VERONICA
Leptandra and veronica—a morphological study. T. Holm. bibliog il Am J Sci 5th ser 9:460-71 Je '25

VERTEBRATES
Anaspida and the problem of the origin of the vertebrates. P. E. Raymond. Am J Sci 5th ser 10:433-6 N '25
Origin of vertebrates. H. C. Delsman. Am J Sci 5th ser 8:151-8 Ag '24

VERTEBRATES, Fossil
Contributions to vertebrate palæontology. C: W. Gilmore. Canada Geol S Bul 38:1-89, pl 1-12 '24

VERTICAL trusts. See Trusts, Industrial—Vertical trusts

VESTIBULES
Heating
Heating isolated spaces; vestibules, show windows, ticket booths, hospital operating rooms. C: L. Hubbard. diags Dom Eng 108: 27-31 S 27 '24

VETERANS' bureau. See United States—Veterans' bureau

VETERANSVILLE, Minnesota
Little journey to Veteransville. W. B. Millen. il Burroughs Clearing House 8:14-15+ Ja '24

VIADUCTS. See Bridges

VIALOG tests. See Roads—Testing

VIBRATION
Anti-vibrator for looms. F. Hymans. diag Textile World 65:3813+ Je 7 '24
Application of a thermionic valve to the measurement of the damping of vibrations of a steel wire. F. M. Chambers. il diag Philos Mag 6th ser 48:636-45 O '24
Characteristic vibration frequency of an element. J. E. P. Wagstaff. Philos Mag 6th ser 47:84-90 Ja '24
Combined vibration of a bar and string, and the wolf-note of a stringed instrument. W. B. Morton and F. M. Chambers. Philos Mag 6th ser 50:570-88 S '25
Damped vibrations. C. F. Jenkin and W. N. Thomas. diags Philos Mag 6th ser 47:303-6 F '24
Damping of torsional vibrations in air at reduced pressures. R. V. Wagner. diags Philos Mag 6th ser 48:847-59 N '24
Delemer and the Lamb theories of the struck string. W. H. George. Philos Mag 6th ser 48: 48-55 Jl '24
Dynamical illustration of the pressure of radiation. E. L. Nicolai. Philos Mag 6th ser 49:171-7 Ja '25
Dynamical illustrations of the pressure of radiation and of adiabatic invariance. T. H. Havelock. Philos Mag 6th ser 47:754-71 Ap '24
Eigenschwingungen von systemen mit periodisch veränderlicher elastizität; abstract. L. Dreyfus. Elektrotech Zeit 45:693-4 Je 26 '24
Elastic impact of pianoforte hammer. S. Bhargava and R. N. Ghosh. Philos Mag 6th ser 47:1141-8, pl 8; 49:121-9 Je '24, Ja '25
Engine-vibration problem. Power 59:910 Je 3 '24
Étude experimentale des vitesses critiques des arbres manivelles. F. Harlé. diags Soc Ing Civils Bul 78:267-73, pl 93 Mr '25
Experimental determination of the viscosity of vibrating solids. S. L. Quimby. diags Phys R 25:558-73 Ap '25
Forces at the ends of a vibrating string. W. H. George. Philos Mag 6th ser 49:97-106 Ja '25
Helmholtz theories of the struck string. W. H. George. Philos Mag 6th ser 47:591-602, pl 3; 48:34-43, pl 1-3 Mr, Jl '24
How shaft whipping is produced. il diags Power 61:215-19 F 10 '25
Isolation of machine vibrations. A. B. Eason. il diag Elec R (Lond) 94:527 Ap 4 '24
Measurement of mechanical vibrations. H. A. Thomas. diags Engineer 139:102-4 Ja 23 '25
Non-radial harmonic vibrations within a conical horn. V. A. Hoersch. Phys R 25:218-24 F '25
Partial tones of the struck string. W: H. George. Philos Mag 6th ser 50:491-9, pl 13-16 Ag '25
Partials of a pianoforte string struck by an elastic hammer. R. N. Ghosh. Phys R 24: 456-60 O '24
Possible new sources of trouble from resonant vibration. J. Frith. Engineering 117: 649 My 16 '24
Radiotoneotype; an apparatus to determine the acoustic period of vibrating members. L. Spencer. diags Radio N 6:1875+ Ap '25
Resonant vibration; a consideration of the critical speeds of rotors, runners, and screw propellers. J. Morris. diags Automobile Eng 15:213-14 Jl '25
Shaft whipping. B. L. Newkirk. il diags Gen Elec R 27:169-78 Mr '24; Abstract. Mech Eng 46:279-81 My '24
Shaft whipping due to oil action in journal bearings. B. L. Newkirk and H. D. Taylor. il diags Gen Elec R 28:559-68 Ag '25; Abstract. Power 62:464 S 22 '25
Some experiments on the vibration of bars. E. F. Relf and W. L. Cowley. Philos Mag 6th ser 48:646-53 O '24
Torsional vibrations in reciprocating-engine shafts. G. R. Goldsbrough. Mech Eng 47: 930-1 N '25
Über die stroboskopische darstellung von fliehkraftfehler-wirkungen an körpern mit senkrechter welle. H. Hort. il diags Zeit Ver Deutsch Ing 68:857-9 Ag 16 '24

VIBRATION—*Continued*
Variation of logarithmic decrement with amplitude and viscosities of certain metals. G. Subrahmaniam and D. Gunnaiya. Philos Mag 6th ser 47:711-24; 50:716-22 Ap '24, O '25
Variation of Young's modulus with temperature from vibration measurements. A. L. Kimball, jr. and D. E. Lovell. diag Phys R 26:121-4 Jl '25
Vibration. Engineer 139:628 Je 5 '25
Vibration absorbers for large single-phase machines. C. R. Soderberg. il diags Elec J 21: 383-7 Ag '24
Vibration and noise; their isolation as affecting the erection of machinery. R. B. Grey. il diag Electrician 92:354-5 Mr 21 '24
Vibration and structural damage. E. Latham. il Engineering 117:163-4 F 8 '24
Vibration caused by traffic. W. P. Digby. il Engineer 140:356 O 2 '25; Same. Eng & Contr (Bldgs) 64:929-30 O 28 '25
Vibration dampener for the screw machine. D. A. Hampson. diag Am Mach 60:64-5 Ja 10 '24
Vibration in engineering. J. Frith and F: Buckingham. 123p [bibliog. p. 117-18] Macdonald & Evans, London '24
Vibration of a string under intermittent impulses. D. Gunnaiya and G. Subrahmaniam. Phys R 25:99-100 Ja '25
Vibration of conductors and overhead ground wires. J. M. Gaylord. il Am Inst E E J 43: 1026-8 N '24
Vibration problem in engineering. C. R. Soderberg. diags Elec J 21:39-43, 53-5, 89-97, 160-5, 295-9, 330-4, 579-82 Ja-Ap, Je-Jl, D '24
Vibration recorder and some of its applications in the study of muscle tremors. C: G. Beall and C. I. Hall. il diags Gen Elec R 27:297-303 My '24
Vibration recorder for pathological analyses. C. I. Hall. il Am Inst E E J 44:829-32 Ag '25
Vibrations of two pendulums connected by a spring. V. N. Solovieff. diags Philos Mag 6th ser 50:612-18, pl 18-20 S '25
Vibratory bouncing. J: L. Dunk. Engineer 138: 580-1 N 21 '24
Viscosities of liquids experimentally correlated to pendulum dampings. E. G. Barton and H. M. Browning. Philos Mag 6th ser 47: 495-500, pl 1 Mr '24
See also Accelerometer; Airship engines—Vibration; Automobiles—Vibration; Balancing of machinery; Electric motors—Vibration; Gas and oil engines—Vibration; Ships—Vibration; Steam engines—Vibration; Steam turbines—Vibration; Turbines—Vibration; Vibrograph; Vibroscope

VIBRATORS, Pneumatic
Remove cores and adhering sand from automobile cylinder castings with vibrator. il Foundry 51:984-5 D 15 '23

VIBROGRAPH
Cambridge vibrograph. il diag Engineering 119:271-2 F 27 '25; Power 61:155 Ja 27 '25
Instrument for recording vibrations. L. H. Young. il Mech Eng 47:907-8 N '25
Prizes offered for strain gages and vibration recorders. Eng N 94:118 Ja 15 '25
Der vibrograph. J. Geiger. Zeit Ver Deutsch Ing 68:265-6 Mr 15 '24

VIBROMETER
Instrument for locating and measuring vibration. il Iron Age 113:1853 Je 26 '24
Vibrometer. il Sci Am 131:405 D '24

VIBROSCOPE
Observation of high-speed mechanisms with the vibroscope. P. Davey. il Mach 32:19-21 S '25

VICTORIA, B. C.
Bridges
Completion of Johnson street bridge. F. H. Allwood. il Can Eng 46:633-5 Je 24 '24

VICTORIA falls
Big four in earth's water powers. H. P. Quick. maps Can Eng 47:189-92 Jl 29 '24

VICTORY highway
Victory highway; a national memorial road from New York to San Francisco. B. Blow. il map Good Roads 66:159-60+ Je '24

VILLAGES
Norman village in Arrowhead Woods, Lake Arrowhead, California. F. Mueller. il plan Arch Rec 54:507-20 D '23

VINCI, Leonardo da
Dynamics of Leonardo da Vinci. I. B. Hart. diags Engineering 116:729-30 D 7 '23

VINEGAR
Chemical engineering in vinegar manufacture. il diag Chem & Met Eng 30:1017-18 Je 30 '24

VINYL compounds
Vinyl derivatives especially of carbazole and tetrahydrocarbazole and their behaviour with acids. G: R. Clemo and W: H: Perkin, jr. Chem Soc J 125:1804-14 S '24

VINYL group
Investigations on the dependence of rotatory power on chemical constitution; four alcohols containing the vinyl group and some esters derived therefrom. J. Kenyon and D. R. Snellgrove. Chem Soc J 127:1169-81 My '25

VINYLDIACETONALKAMINES
Some derivatives of the vinyldiacetonalkamines. F: S. Kipping. Chem Soc J 123: 3115-19 D '23

VINYLDIACETONAMINE
Isomeric benzoyl derivatives from vinyldiacetonamine. F: S. Kipping and T. Greasley. Chem Soc J 125:2611-16 D '24

VIOLET (color)
Spectrophotometric identification of dyes; basic violets of the triphenylmethane group. W. C. Holmes. Ind & Eng Chem 17:918-19 S '25
See also Gentian violet

VIRGINIA
See *also* Budget—Virginia; Coal—Virginia; Coal mines and mining—Virginia; Mines and mineral resources—Virginia; Railroads—Virginia; Wages—Virginia
Commerce
New England-Virginia trade entente. L. B. Hodges. Am Ind 25:36-40 F '25
North and South in industry. Am Ind 25:29-30 D '24
Industries and resources
Manufacturing census of Virginia, 1923. Manuf Rec 87:107 Je 4 '25
Virginia's resources. E. L. Trinkle. Manuf Rec 86:425-6; Statistics. 429 pt 2 D 11 '24
Public buildings
Virginia builds office building for state departments. il diags plan Eng N 93:252-5 Ag 14 '24

VIRGINIA, Minnesota
Christmas campaign that made every day a shopping day. O. Winford. il System 44: 730-2+ D '23

VIRGINIA association of master plumbers
Annual convention, 1st, Richmond, Va., April 16. Dom Eng 107:62+ Ap 26 '24

VIRGINIA-CAROLINA chemical company
Reorganization. Moody's Inv Serv 17:267 Ag 13 '25
Reorganization plan. Comm & Fin Chr 121: 853-4 Ag 15 '25

VIRGINIA railway and power company
Virginia railway & power common stock. Moody's Inv Serv 17:63, 147 F 19, Ap 30 '25

VIRGINIA. University
University of Virginia in the life of Virginia. W. Gee. il Manuf Rec 87:57-9 Ja 22 '25

VIRGINIAN railway
Annual report, 15th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2264 My 2 '25

VIRGINIAN railway—*Continued*
Economies expected from electrification of Virginian railway. il Elec Ry J 65:843-5 My 30 '25
Hearing on lease of Virginian by Norfolk & Western. Ry Age 79:699-700 O 17 '25; Ry R 77:649-52 O 24 '25
Inter-state commerce commission's order authorizing extension of Virginian railway. Comm & Fin Chr 117:2847-8 D 29 '23; Excerpt. Ry R 73:918-19 D 22 '23
Norfolk and Western proposes to lease Virginian. Ry Age 78:1045 Ap 25 '25
Rogers alone built great road. R. R. Batson. Am Ind 25:20 Je '25
Virginian prepares to do it with electricity. W: H. Easton. il map Forbes 14:29-30 Ap 12 '24
Virginian railway company. Moody's Inv Serv 16:369-72 O 2 '24
Virginian railway electrification. H. K. Smith. il map Ry Age 76:1353-8 Je 7 '24; Same. Elec J 21:275-9 Je '24; Same. Ry R 76:335-41 F 21 '25
Virginian railway electrification opened; radio communication between locomotives. il Elec Ry J 66:539-41 O 3 '25
Virginian starts electric operation. il Ry Age 79:553-4 S 26 '25

VIRIAL, Theorem of
Extension of the theorem of the virial. E. A. Milne. Philos Mag 6th ser 50:409-14 Ag '25

VISCOSE
Laboratory production of viscose. F. D. Snell. Ind & Eng Chem 17:197-8 F '25
Ripening of viscose. G: de Wyss. Ind & Eng Chem 17:2043-5 O '25
Ripening of viscose; its industrial control. J. Frere. Chem Age 32:146-7 Mr '24; Same. Am Dyestuff Rep 13:545-8 Ag 25 '24
Viscose reaction; abstract. B. Rassow and M. Wadewitz. Soc Dyers & Col J 40:239-40 Jl '24

See also Silk, Artificial

VISCOSE corporation of Virginia
Southern plant turning out annually 12,000,000 pounds of artificial silk. C. E. Williams. il Manuf Rec 86:60-4 D 11 '24

VISCOSIMETERS
Apparatus for the viscosimetric determination of transition points. N. H. Hartshorne. diag Chem Soc J 125:2096-9 O '24
Lidstone viscosimeter. G. Barr. Soc Chem Ind J 43:29-30 F 15 '24
Measurement of absolute viscosity of light distillates with the Saybolt thermo-viscometer. A. R. Fortsch and R. E. Wilson. Ind & Eng Chem 17:291-3 Mr '25
Mercurial viscosimeter compensated for density. F. M. Lidstone. diag Soc Chem Ind J 43:87-8 Ap 4 '24
La mesure des coefficients de viscosité; viscosimètre, système Baume. R. Marnot. diags Génie Civil 86:190-1 F 21 '25
Michell viscometer; new instrument developed to show true body of oils. R. W. A. Brewer. diags Automotive Ind 49:1244-5 D 20 '23
New combined viscometer and plastometer. E. C. Bingham and H. A. Murray, jr. diags Am Soc T M Pro 23 pt 2:655-62; Discussion. 663-8 '23
Ostwald viscometer as a consistometer. W. H. Herschel and R. Bulkley. diag J Phys Chem 29:1217-23 O '25
Reliable plant viscometer. M. Marasco. diag Ind & Eng Chem 16:172-3 F '24
Tagliabue electrically controlled viscosimeter. il Power 62:738 N 10 '25
Viscometry in Sibley school of mechanical engineering. G. B. Upton. Sibley J 39:330-1+, 348-51, 377-81+, 396-9, 414-18+ My-D '25
Viscosimeter for use at high temperatures. C. B. Bellis. Chem & Met Eng 32:645 Jl '25
Le viscosimètre Michell. il Génie Civil 87:334-5 O 17 '25
Visgage pocket viscosimeter. il Power 62:70 Jl 14 '25

VISCOSITY
Analysis of recent measurements of the viscosity of glasses. G. S. Fulcher. Am Cer Soc J 8:339-55, 789-94 Je, D '25
Coefficients of slip and momentum transfer in hydrogen, helium, air and oxygen. E: Blankenstein. diags Phys R 22:582-9 D '23
Damping of torsional vibrations in air at reduced pressures. R. V. Wagner. diags Philos Mag 6th ser 48:847-59 N '24
Determination of consistence. W. R. Goddard and C. K. Hewes. il Chem & Met Eng 32: 456-7 Ap '25
Determination of viscosities; redetermination of figures for castor oil. diags Chem Age (Lond) 11:347 O 4 '24
Determination of viscosity of water vapor; abstract. H. Speyerer. Mech Eng 47:757-8 S '25
Einfluss der temperatur und der chemischen zusammensetzung auf die viskosität des eisens. P. Oberhoffer and A. Wimmer. diag Stahl & Eisen 45:969-77; Discussion. 977-9 Je 18 '25
Experimental determination of the viscosity of vibrating solids. S. L. Quimby. diags Phys R 25:558-73 Ap '25
Flow of liquids; some factors influencing friction, velocity distribution and heat transmission. W. H. McAdams. bibliog il charts Refrig Eng 11:279-88; Discussion. 288+ F '25
Flow of plastic materials at low velocities. B. Marzetti. Rubber Age 15:454-5 S 25 '24
Flow of starch paste through capillary tubes. F: D. Farrow and G: M. Lowe. diags Textile Inst J 14:T414-40 N '23
Fluidity or viscosity of starches. W. A. Nivling. Textile World 65:2999+; Discussion. 2969+ My 3 '24
Fuel oil viscosity. G. B. Vroom. diags Marine Eng 30:629-32 N '25
Impact of a solid sphere with a fluid surface and the influence of surface tension, surface layers, and viscosity on the phenomenon. G. E. Bell. diags Philos Mag 6th ser 48:753-64, pl 15 N '24
Kinetic theory of viscosity, conduction, and diffusion. S. Chapman and W. Hainsworth. Philos Mag 6th ser 48:593-607 S '24
Lubricating oil tests; how to make them—what they mean. H. L. Kauffman. il Nat Pet N 16:73-4+ S 24 '24
Measurement of coefficients of viscosity. Baume. Power Pl Eng 29:540 My 15 '25
Measurement of the viscosity of solutions of cottons in aqueous cuprammonium hydroxide and its significance as a test of textile quality. F: D. Farrow and S. M. Neale. bibliog diags plan Textile Inst J 15:T157-72 Ap '24
Method of determining consistency of benzene solutions of rubber. W. H. Herschel. Ind & Eng Chem 16:927 S '24
Microplastometer for studying plastic flow, determining viscosity of liquids, and yield value of paints. H: Green and G: S. Haslam. il Ind & Eng Chem 17:726-9 Jl '25
On what principle do the viscosity test gages work that are used for testing the dilution of crankcase oil? J. B. Rathbun. Pet Age 15:58 Je 1 '25
Plan worked out for standardization of oil viscosity tests. Automotive Ind 53:136-8 Jl 23 '25
Properties of mixtures of aniline, water, and some fatty acids. J. R. Pound and R. S. Russell. Chem Soc J 125:769-80 Ap '24
La similitude des fluides visqueux. L. Escande and M. Ricaud. il Génie Civil 86: 518-19 My 23 '25
Standard methods for determining viscosity and jelly strength of glue. diags Ind & Eng Chem 16:310-15 Mr '24
Study in oil viscosities. J: B. Rathbun. Pet Age 15:54+ Mr 1 '25
Study of the viscosities of solutions containing mixtures of mercuric, cupric and cobaltous chlorides with other chlorides for the purpose of finding the composition of the complex ions formed. N. A. Yajnik and R. L. Uberoy. Am Chem Soc J 46:802-8 Ap '24

VISCOSITY—*Continued*
Valve mechanisms in automatic machinery for handling semi-fluid substances. A. A. Dowd. diags Mach 31:126-9 O '24
Variation of logarithmic decrement with amplitude and viscosities of certain metals. G. Subrahmaniam and D. Gunnaiya. Philos Mag 6th ser 49:711-24; 50:716-22 Ap, O '25
Viscosities and surface tensions of the soda-lime-silica glasses at high temperatures. E: W. Washburn and G: R. Shelton. diags Ill U Eng Exp Sta Bul 140:7-50 Ap 14 '24
Viscosities of liquids experimentally correlated to pendulum dampings. E. H. Barton and H. M. Browning. Philos Mag 6th ser 47:495-500, pl 1 Mr '24
Viscosities of some monovalent salts of higher fatty acids in organic solvents. M. Prasad. J Phys Chem 28:636-43 Je '24
Viscosities of the liquid halogens. E. W. R. Steacie and F. M. G. Johnson. diags Am Chem Soc J 47:754-62 Mr '25
Viscosity and surface tension of solutions of iodine and potassium iodide. E. A: Dancaster. Chem Soc J 125:2036-7 O '24
Viscosity of cotton cellulose. J. O. Small. diag Ind & Eng Chem 17:515-17 My '25
Viscosity of liquids containing dissolved gases. J: R. Lewis. diags Am Chem Soc J 47: 626-40 Mr '25
Viscosity of lubricants at high pressure and temperature. M. D. Hersey. Soc Auto Eng J 14:188 F '24
Viscosity of oils at high temperatures. A. R. Fortsch and R. E. Wilson. diags Ind & Eng Chem 16:789-92 Ag '24
Viscosity of syrupy condensation products of phenol and formaldehyde. A. A. Drummond. Soc Chem Ind J 43:323-6 N 7 '24
Viscosity-temperature curves of fractions of typical American crude oils. F. W. Lane and E. W. Dean. Ind & Eng Chem 16:905-11 S '24
See also Fluidity; Plasticity; Viscosimeters

VISES
Steps in the manufacture of bench vises; Athol machine & foundry co. il Am Mach 59:870-1 D 13 '23

VISIBILITY
Glare and visibility. M. Luckiesh and L. L. Holladay. diags Illum Eng Soc 20:221-47; Discussion. 248-52 Mr '25
Relative visibility function. K. S. Gibson. Gas J (Lond) 169:219-20 Ja 28 '25
Visibility of radiant energy. K. S. Gibson and E. P. T. Tyndall. diag Illum Eng Soc 19:176-93; Discussion. 194-6 F '24

VISIBLE records. See Records, Visible

VISION. See Sight

VISITING nurses. See Nurses and nursing, Public health

VISITORS
Goddess of the reception room. E. C. McAnley. Sales Management 7:1872+ D '24
Solving that opening day problem. A. D. Williams. Ptr Ink 127:105-6 Je 12 '24
What do visitors see in your plant? J. H. Collins. Ptr Ink 133:3-4+ O 1 '25
See also Factory exhibits and demonstrations; Gas works—Visitors

VITAL red
Preparation of Brilliant Congo R (vital red) and the suitability of various samples of vital red for blood volume work. S: Palkin and H. M. Evans. Am Chem Soc J 47:429-34 F '25

VITAL statistics
Elements of vital statistics in their bearing on social and public health problems. A. Newsholme. New ed. 623p Appleton '24
See also Birth rate; Death registration; Mortality; *also* subdivision Statistics, Vital under names of countries, e.g. Great Britain —Statistics, Vital; Panama Canal Zone—Statistics, Vital

VITAMIN D. See Bios

VITAMINS
Bodily store of vitamin A as influenced by age and other conditions. H. C. Sherman and L. B. Storms. Am Chem Soc J 47:1653-7 Je '25
Cod liver oil. J. C. Drummond. Soc Chem Ind J (Chem & Ind) 43:928-32 S 19 '24
Delicate colour reaction for the presence of vitamin A; abstract. O. Rosenheim and J. C. Drummond. Soc Chem Ind J (Chem & Ind) 44:531 My 22 '25
Experiments upon vitamin A. H. C. Sherman and M. M. Kramer. Am Chem Soc J 46: 1055-63 Ap '24
Fractionation of bios, and comparison of bios with vitamins B and C. G: H. W. Lucas. J Phys Chem 28:1180-1200 N '24; Same. 20p University library, Toronto '25
Influence of storage and of emulsification on the vitamin A in cod liver oil. J. C. Drummond, S. S. Zilva and K. H. Coward. Soc Chem Ind J 43:236-8 Jl 18 '24
Molasses as a source of vitamin B. V. E. Nelson, V. G. Heller and E. I. Fulmer. Ind & Eng Chem 17:199-201 F '25
Presence of vitamin A in frozen pork. A. M. Wright. Soc Chem Ind J 42:509 D 28 '23
Production and nutritional value of commercial wheat germ extract. C: Hoffman. diags Ind & Eng Chem 17:498-503 My '25
Progress in vitamin research. S. S. Zilva. Chem Age (Lond) 12:454 My 9 '25
Quantitative determination of vitamin A. H. C. Sherman and H. E. Munsell. Am Chem Soc J 47:1639-46 Je '25
Quantitative experiments upon the occurrence and distribution of vitamin A in the body, and the influence of the food. H. C. Sherman and L. C. Boynton. Am Chem Soc J 47:1646-53 Je '25
Recent progress in vitamin research. S. S. Zilva. Soc Chem Ind J 44:445-50 S 4 '25
Relation of sterols to vitamin A. J. C. Drummond, O. Rosenheim and K. H. Coward. Soc Chem Ind J 44:123-4 Mr 13 '25
Relation of vitamin A to growth, reproduction and longevity. H. C. Sherman and F. L. MacLeod. Am Chem Soc J 47:1658-62 Je '25
Reproduction of animals on an exclusive diet of bread. C. Hoffman. il Ind & Eng Chem 15:1225-32 D '23
Some chemical qualities of the living cell. F. G. Hopkins. Soc Chem Ind J (Chem & Ind) 43:275-6 Mr 14 '24; Same. Chem Age (Lond) 10:268-9 Mr 15 '24
Some features in the chemistry and physiology of the vitamins. A. B. Macallum. Can Chem & Met 9:175-7 Ag '25
Some modern tendencies of vitamin research. J. C. Drummond. Soc Chem Ind J (Chem & Ind) 43:908-11 S 12 '24
Vitamin C in canned foods. W. H. Eddy and E: F. Kohman. Ind & Eng Chem 16:52-3 Ja '24
Vitamin potency of cod-liver oils. A. D. Holmes. Ind & Eng Chem 16:295-7, 379-80, 964-5, 1181-4; 17:75-8, 310-11 Mr-Ap, S, N '24, Ja, Mr '25
Vitamins; a critical survey of the theory of accessory food factors. R. Berg. 415p Knopf '23
Vitamins and fruit in the diet. Nation's Health 7:416-17 Je '25
Vitamins in canned foods; canned spinach. W. H. Eddy, E. F. Kohman and V. Carlsson. Ind & Eng Chem 17:69-74 Ja '25
Vitamins in canned foods; the vitamin C destructive factor in apples. E. F. Kohman, W. H. Eddy and V. Carlsson. charts Ind & Eng Chem 16:1261-3 D '24
Whole and skimmed milk powders as food; observations on a new vitamin for reproduction. L. T. Anderegg and V. E. Nelson. Ind & Eng Chem 17:451-5 My '25
See also Bios

VITRUVIUS
Vitruvius on city planning. N. Hammarstrand. Am Inst Arch J 13:67-70 F '25

VOCATIONAL education
Administration of vocational education. A. F. Payne. 354p McGraw-Hill '24
Apprenticeship and vocational education. F. Cushman. Sheet Metal Worker 15:601-2+ Ag 29 '24
Cooperation between vocational schools and industry. Mach 31:990 Ag '25
Does trade training pay? E. H. Fish. Mach 31:183 N '24
Teaching shop work. M. W. Haynes. 238p Ginn '24
Train our future builders in the public schools. Bldg Age 47:93 Ja '25
Training for industry and the public program of vocational education. F. Cushman. Mech Eng 47:98-101; Discussion. 101-2 F '25
Vocational education in Japan. Int Labour R 11:855-7 Je '25
Vocational education in soviet Russia. B. A. Nikolsky. Int Labour R 12:386-401, 500-22 S-O '25
Vocational education in the metallurgical, engineering, and electrical industries in France. Int Labour R 10:685-90 O '24
Vocational training for manual workers. Engineering 117:341-2 Mr 14 '24

See also Agricultural education; Disabled—Rehabilitation; Employees, Training of; Engineering education; Industrial education; Library schools and training; Mining schools and education; Professional education; Technical education; Trade schools; *also* Grand Rapids vocational school; Milwaukee vocational school

VOCATIONAL guidance
Conserving our human resources. H. A. Frommelt. Nation's Health 7:471-3 Jl '25
Educational and vocational guidance of engineering students and graduates. H. P. Hammond. J Eng Educ 15:735-50 Je '25
Help wanted by technical college man. G: P. Bowman. Iron Age 112:1437-40 N 29 '23; Same. Chem Age 31:543-6 D '23
Organization of vocational guidance. A. F. Payne. 438p [bibliog. p. 402-31] McGraw-Hill '25
Right job, how to choose, prepare for, and succeed in it. K. M. H. Blackford and A. Newcomb. [bibliog. p. 595-603] Review of reviews corp., New York '24
Vocational guidance for college students. L. L. Thurstone and C: R. Mann. (Reprint and Circ. Ser. 62) p. 421-48 40c National research council '25
Vocational guidance for the maladjusted. E. T. Burr. il Nation's Health 6:399-401 Je '24
Vocational guidance in Brussels. Monthly Labor R 17:1411-13 D '23
Vocational guidance in Germany. Int Labour R 11:526-41 Ap '25
Work of vocational guidance office in Harburg, Germany. Monthly Labor R 19:1389-90 D '24

See also Disabled—Rehabilitation

VOCATIONAL selling. See Sales management

VOGES-Proskauer reaction
Notes on the Voges-Proskauer reaction. C. S. Linton. Am Water Works Assn J 13: 547-9 My '25

VOICE
Der frequenzbereich von sprache und musik. K. W. Wagner. diags Elektrotech Zeit 45: 451-6 My 8 '24
World of sound. J: P. Minton. il diags Wireless Age 11:38-40 S; 12:40-1+ N '24

See also Speech

VOLCANIC steam. See Steam, Natural

VOLCANOES
Aniakchak crater, Alaska peninsula. W. R. Smith. map U S Geol S Prof Pa 132—J:139-49, pl 41-4 '25
Explosive eruption of Kilauea in Hawaii, 1924. T. A. Jaggar and R. H. Finch. il map Am J Sci 5th ser 8:353-74 N '24
Extinct volcano on Alaska peninsula. Eng & Min J 120:134 Jl 25 '25
1924 eruption of the Hawaiian volcano. H. T. Stearns. il Sci Am 132;242-3 Ap '25
Some causes of volcanic activity. A. L. Day. il J Fr Inst 200:161-82 Ag '25
Sources of volcanic energy. J: C. Soley. 247p Putnam '24
Sulphate deposits in lava tubes. R. H. Finch and O. H. Emerson. Am J Sci 5th ser 10: 39-40 Jl '25
Tidal oscillations in Halemaumau, the lava pit of Kilauea. E. W. Brown. map Am J Sci 5th ser 9:95-112 F '25

See also Lava; Steam, Natural

VOLTAGE drop
Schnelle berechnung von spannungsabfällen in leitungsnetzen. E. Rosseck. Elektrotech Zeit 45:1333-7, 1372-7 D 4-11 '24
Der spannungsabfall in wechselstromkreisen mit wirkwiderständen und blindwiderständen. R. Edler. bibliog Elektrotech Zeit 46: 1109-14 Jl 23 '25

VOLTAGE regulation
Bestimmung und regelung der spannung in drehstromnetzen. Burger. diags Elektrotech Zeit 46:1289-96 Ag 27 '25
Calculation of voltage regulator settings. V. V. Gunsolley. Elec W 86:520-1 S 12 '25
Changing transformer ratio without interrupting the load. M. H. Bates. il diags Am Inst E E J 44:1238-42 N '25
Control of e.m.f. il diags Power Pl Eng 29: 21-3 Ja 1 '25
Distribution line practise of the San Joaquin light and power corporation. L. J. Moore and H. H. Minor. il diags Am Inst E E J 44:1205-7 N '25
Fundamental considerations of power limits of transmission systems. R. E. Doherty and H. H. Dewey. il diag Am Inst E E J 44: 1045-57 [bibliog. p. 1056-7] O '25; Discussion. 45:68-77 Ja '26
Generator voltage control for the high-speed coal towers at the Brooklyn Edison company's Hudson avenue station. E. D. Harrington. il diag Gen Elec R 28:80-5 F '25
Hazards of induced voltages in excitation systems. R. Brown. il diags Power 59:164-5 Ja 29 '24
Improving central station service by the application of current-limiting reactors to distribution feeders. D. K. Blake. il diags Gen Elec R 27:361-8 Je '24
Methods of voltage control of long high-voltage lines by the use of synchronous condenser. J: A. Koontz, jr. Am Inst E E J 42:1255-6 D '23; Discussion. 43:263-4 Mr '24
Operation of converting apparatus. V. E. Johnson. diags Power Pl Eng 28:952-4 S 15 '24
Operation of synchronous converters at reduced voltages. E. B. Shand. Elec J 21: 545-8 D '24
Over-voltage on transmission systems due to dropping of load. E. J. Burnham. il diag Am Inst E E J 44:579-87 Je '25; Same. Gen Elec R 28:509-19 Jl '25; Discussion. Am Inst E E J 44:1022 S '25
Power system regulation; interesting Oerlikon equipment in use at Manchester High street sub-station. il diag plan Electrician 92:160-1 F 8 '24
Power transmission lines; aspects of their design. W: T. Taylor. Elec R (Lond) 95:385-7 S 12 '24
Die regelung der spannung von gleichstromgeneratoren mittels glühkathodenröhren. W. Taeger. Elektrotech Zeit 45:1407-9 D 18 '24
Regulation of voltage in alternating-current distribution networks. F. Jacobsen. Elec W 82:1332 D 29 '23
Reguliergarantien fur wasserkraftanlagen. K. Lubowsky. Elektrotech Zeit 45:1025 S 25 '24
Standard motorbus voltage systems compared. L. P. Michaud. Soc Auto Eng J 16:281-2 Mr '25
Synchronous motors used for voltage and power-factor regulation. S. H. Mortensen. il Power 62:47-9 Jl 14 '25
Test boxes for maintaining economical voltage. diag Elec W 85:928-9 My 2 '25
Transformer tap changing under load. F. V. Smith. il diag Elec W 86:270-2 Ag 8 '25

VOLTAGE regulation—*Continued*
Über selbsttätige regelungsmöglichkeiten. T. Dall. diags Elektrotech Zeit 46:1193-5 Ag 6 '25
Unbalanced electric range loads. P. P. Ashworth. Elec W 82:1276 D 22 '23
Voltage control obtained by varying transformer ratio. L. F. Blume. diags Am Inst E E J 44:752-5 Jl '25; Discussion. 44:1126 O '25
Voltage control of transmission lines. J: A. Koontz, jr. Power Pl Eng 28:188-9 F 1 '24
Voltage-drop curves for 4,600-volt lines. H. P. Seelye. Elec W 83:833-5 Ap 26 '24
Voltage-regulated systems; abstracts. A. A. Skinner. Soc Auto Eng J 16:280-1 Mr '25; Bus Transportation 4:249-50 My '25
Voltage regulation by static transformers. G. Rattenbury. il diags Elec R (Lond) 96:524-7 Ap 3 '25
Voltage regulation in industrial power plants. V: H. Todd. il diags Power Pl Eng 29:243-7 F 15 '25
Voltage regulation of automotive electrical systems. D. S. Cole. il Soc Auto Eng J 16: 573-80 Je '25

See also Klydonograph

VOLTAGE regulators
Application of the saturated-core reactor and regulator. D: K. Blake. il diags Am Inst E E J 43:604-7 Jl '24; Discussion. 44:270-6 Mr '25
Design of automatic regulator heads. J. L. Landon. diags J Elec 54:488-90 Je 1 '25
Extended broad-range voltage regulator. J. H. Ashbaugh. il diags Elec J 22:559-61 N '25
Generator automatic voltage regulators—care and adjustment. J. H. Ashbaugh. il diags Power 59:290-2 F 19 '24
New General Electric voltage regulator. il Power Pl Eng 28:212 F 1 '24
Polyphase induction regulators. L. H. A. Carr. il Elec R (Lond) 95:528-30 O 10 '24
Regulator settings for long lines. L. F. Woodruff. Elec W 84:411-12,460-4 Ag 30-S 6 '24
Regulators for network distribution systems. E. E. Lehr. diag Elec J 22:344-5 Jl '25
Regulators on network feeders. C. C. Hudspeth. diags Elec J 22:346-7 Jl '25
Rewinding regulators to change phase. diags Elec W 86:270 Ag 8 '25
Stability of direct-current generators at low voltages and when used with voltage regulators. C. Lynn. diags Elec J 21:304-8 Jl '24
Theory of d-c. excited iron-core reactors and regulators. A. Boyajian. bibliog il diags Am Inst E E J 43:958-66 O '24; Discussion. 44:270-6 Mr '25
Unity power-factor constant-current regulator. L. Dorfman. il diags Elec J 22:86-9 F '25
Use of induction regulators in feeder circuits. L. H. A. Carr. diags Inst E E J 63:864-73; Discussion. 874-6 S '25
Voltage regulation in industrial power plants. V: H. Todd. il diags Power Pl Eng 29: 243-7 F 15 '25

VOLTMETERS
Better records of voltage fluctuation during system trouble. G: S. Diehl. il Elec W 83: 1186-7 Je 7 '24
Combined megohmeter and voltmeter. il Management & Adm 7:446 Ap '24
Die elektrische ventilröhre als gerät zur messung von überspannungen. M. Schenkel. diags Elektrotech Zeit 45:490-2 My 15 '24
Graphic voltmeters used for boiler-plant tests. L. N. Van Hook. diag Power 62:455 S 22 '25
Improved, continuous-reading hydrogen-ion meter. K. H. Goode. il diags Am Chem Soc J 47:2483-8 O '25
Die messung von scheitel- und augenblickswerten hoher wechselspannungen. R. Schimpf. il diags Elektrotech Zeit 46:75-81 Ja 15 '25
Novel alternating-current voltmeter; abstracts. L. T. Wilson. il diags Am Inst E E J 43:446-8 My '24; Elektrotech Zeit 46: 848-50 Je 4 '25; Discussion. Am Inst E E J 43:1080 N '24
Some features and improvements on the high-voltage wattmeter; description of a high-voltage voltmeter and a crest voltmeter. J. S. Carroll. il plan Am Inst E E J 44:943-8 S '25; Discussion. 45:61-2 Ja '26

VOLTMETERS, Recording
Recording system disturbances. A. F. Hamdi. il chart Elec W 85:304-5 F 7 '25

VOLUMETER
Measures volume of compression chambers by sound. Automotive Ind 50:1293 Je 12 '24

VOLUMETRIC analysis
Active acidity and alkalinity. H. C. Chapin. Am Dyestuff Rep 13:759-62 N 17 '24
Analysis of binary mixtures; volumetric turbidity method. C: D. Bogin. Ind & Eng Chem 16:380-6 Ap '24
Apparatus for the accurate volumetric determination of tin in canned foods. E. J. B. Willey. diag Soc Chem Ind J 43:70-2 Mr 28 '24
Behavior of electrodes of platinum and platinum alloys in electrometric analysis; dissimilar electrodes. R. G. Van Name and F. Fenwick. Am Chem Soc J 47:9-19 Ja '25
Behavior of electrodes of platinum and platinum alloys in electrometric analysis; polarized electrodes. R. G. Van Name and F. Fenwick. Am Chem Soc J 47:19-29 Ja '25
Causes of errors in the analysis of high-grade phosphatic materials. R. J. Caro and E. L. Larison. Ind & Eng Chem 17:261-4 Mr '25
Determination of chlorides by means of a calorimetric titration and some experiments on the titration of mixtures of cyanide and halides. P. M. Dean and E. Newcomer. Am Chem Soc J 47:64-7 Ja '25
Determination of sulfur by means of a thermometric titration. P. M. Dean and O: O. Watts. Am Chem Soc J 46:855-8 Ap '24
Differential electro-titration. D. C. Cox. Am Chem Soc J 47:2138-43 Ag '25
Diphenylamine as indicator in the titration of iron with dichromate solution. J. Knop. Am Chem Soc J 46:263-9 F '24
Electrometric study of the titration of boric acid. M. G. Mellon and V. N. Morris. Ind & Eng Chem 16:123-6 F '24
Electrometric titration. J. C. Brünnich. diag Ind & Eng Chem 17:631-2 Je '25
Electrometric titration of antimony and tin by potassium dichromate. M. H. Fleysher. Am Chem Soc J 46:2725-7 D '24
Electrometric titration of hydrazine and its salts. E. C. Gilbert. Am Chem Soc J 46: 2648-55 D '24
Electrometric titrations, with special reference to the use of titanous chloride for ore analysis. A. McMillan and W. C. Ferguson. Soc Chem Ind J 44:141-2 Mr 27 '25
Electro-titrations. W. D. Treadwell. Soc Dyers & Col J 40:399-406; Discussion. 406-7 D '24
Emploi de la lampe à trois électrodes en analyse. A. Kling and A. Lassieur. diags Chimie & Ind 12:650-2 O '24
Estimation of pentoses and pentosans. N. C. Pervier and R. A. Gortner. Ind & Eng Chem 15:1255-60; Bibliography. 1260-2 D '23
Evaluation of chlorates; a comparison of seven selected methods applied to a single lot of potassium chlorate of high purity. E. C. Wagner. bibliog il diags Ind & Eng Chem 17:1183-6 N '25
Hydrogen and oxygen electrode titrations of some dibasic acids and of dextrose. H. T: S. Britton. Chem Soc J 127:1896-1917 Ag '25
Investigations in photosynthesis; an electrometric method of determining carbon dioxide. H. A. Spoehr and J. M. McGee. diag Ind & Eng Chem 16:128-30 F '24
Mohr's method for the determination of silver and halogens in other than neutral solutions. H. W. Doughty. Am Chem Soc J 46: 2707-9 D '24
Oxidation of hydrazine; the volumetric analysis of hydrazine by the iodic acid, iodine, bromine, and hypochlorous acid methods. W: C. Bray and E. J. Cuy. Am Chem Soc J 46:858-75 Ap '24

VOLUMETRIC analysis—*Continued*
Physico-chemical studies on proteins; alkali binding—a comparison of the electrometric titration of proteins and of phosphoric acid with sodium and calcium hydroxides. W. F. Hoffman and R. A. Gortner. J Phys Chem 29:769-81 Jl '25
Preparation of Fehlings' solution for the volumetric determination of reducing sugars. J. H. Lane and L. Eynon. Soc Chem Ind J 44: 150-2 Ap 3 '25
Rapid method of analyzing xanthate. W. Hirschkind. Eng & Min J 119:968-70 Je 13 '25
Standardization of thiosulfate solution by the permanganate-iodide and dichromate-iodide methods. W: C. Bray and H. E. Miller. Am Chem Soc J 46:2204-11 O '24
Standardizing acids and bases with borax. M. G. Mellon and V. N. Morris. Ind & Eng Chem 17:145-6 F '25
Theory of certain electrometric and conductimetric titrations. E. D. Eastman. Am Chem Soc J 47:332-7 F '25
Titanous salts as reducing agents. E. Knecht. Chem Soc J 125:1537-46 Jl '24; Abstract. Soc Dyers & Col J 40:341-2 O '24
Titration method for the determination of silver in photographic preparations. M. Marasco. Ind & Eng Chem 16:945-6 S '24
Titration of aniline and homologs. D. O. Jones and H. R. Lee. Ind & Eng Chem 16:948-9 S '24
Turbidimetric estimation of precipitates. P. L. Hibbard. il Ind & Eng Chem 16:804-5 Ag '24
Use of bromate in volumetric analysis; the preparations and properties of normal and basic mercuric bromate. G. F: Smith. Am Chem Soc J 46:1577-82 Jl '24
Use of cadmium half cell for the determination of the acidity of a tan liquor. H. T. Beans and E. Little. diags Ind & Eng Chem 17:413-14 Ap '25
Use of dyestuffs in analytical chemistry. F: W: Atack. bibliog Can Chem & Met 9:201-2 S '25; Same. Am Dyestuff Rep 14:766-8 N 16 '25
Use of the quinhydrone electrode for the estimation of amino-acids and of acid and basic functions. L. J. Harris. Chem Soc J 123: 3294-3303 D '23
Volumetric analysis of hydrazine by the iodine bromate, iodate and permanganate methods. I. M. Kolthoff. Am Chem Soc J 46:2009-16 S '24
Volumetric determination of fluorine. W. W. Scott. Ind & Eng Chem 16:703-7 Jl '24
Volumetric determination of minute quantities of ethyl alcohol. W. Derome and F. Pepin. Can Chem & Met 9:65-6 Mr '25
Volumetric determination of Pb_3O_4 in red lead. E. F. Figg. Soc Chem Ind J 44:68 F 13 '25
Volumetric determination of small quantities of carbon in tungsten by combustion. W. J. King. diags Am Chem Soc J 47:615-21 Mr '25
Volumetric estimation of titanium. A. M. Morley and J: K. Wood. Chem Soc J 125: 518-20 Mr '24
Volumetric estimation of total carbonic acid in dilute solutions of calcium hydrogen carbonate or in hard tap-waters. E: M. Crowther and W. S. Martin. Chem Soc J 125:1937-9 S '24
Volumetric methods for analyzing commercial sodium fluoride. H. Flisik. Ind & Eng Chem 17:307-9 Mr '25

See also Colorimetric analysis; Indicators and test papers; Iodometry

VOLUMETRIC apparatus
Improved, continuous-reading hydrogen-ion meter. K. H. Goode. il diags Am Chem Soc J 47:2483-8 O '25
Use of cool solutions in the Jones reductor. G. E. F. Lundell and H. B. Knowles. Ind & Eng Chem 16:723-4 Jl '24

VOSKENS family
Brothers Voskens and their successors. D. C. McMurtrie. Inland Ptr 74:59-66 O '24

VOSS machine. See Electric machines

VOTING
Get out the vote campaign of the National association of manufacturers. Am Ind 25: 5-18 O '24
Get out vote campaign a success. D. M. Edwards. Am Ind 25:5-6 N '24
Wyoming wins national vote race. D. M. Edwards. Am Ind 25:5-7 F '25

VOX electro-magnetic recorder
Electro-magnetic sound recording machines. H. Bishop. il Elec R (Lond) 97:45-7 Jl 10 '25
Vox electro-magnetic recorder. Electrician 94: 625 My 29 '25

VULCANIZATION
Development of the rubber industry. R. K. McIntyre. Can Chem & Met 9:8-11 Ja '25
Function of rubber resin in the vulcanisation of mixings containing accelerator and zinc oxide. G. Martin and W. S. Davey. bibliog Soc Chem Ind J 44:317-20 Jl 3 '25
Influence of certain compounding ingredients in hard rubber. W. E. Glancy. India Rubber W 70:515-16 My '24
Solubility of sulfur in rubber. W. J. Kelly and K. B. Ayers. Ind & Eng Chem 16:148-50 F '24
Studies on the vulcanization of rubber. A. Dubosc. Rubber Age 15:92-4, 133-5 My 10-25 '24
Theory of vulcanization. A. Dubosc. Rubber Age 15:219-21, 259-61, 305-6, 344-5, 385-6, 426-7, 459-61; 16:51+, 119-20, 154-6 Je 25-Ag 25, S 10-25, O 25, N 25-D 10 '24
Theory of vulcanisation. D. F. Twiss. Soc Chem Ind J 44:106-8 Mr 6 '25
Ultra-violet microscope in the study of vulcanized latex globules. H: Green. Ind & Eng Chem 17:802-3 Ag '25; Same. India Rubber W 72:720-1 S '25
Vulcanization and depolymerization. Rubber Age 15:101 My 10 '24
Vulcanization of rubber. Rubber Age 16:337 F 25 '25
Vulcanisation of rubber latex. W. C. Davey. Soc Chem Ind J 42:473-84 D 14 '23; Excerpts. India Rubber W 69:306 F '24
Water cure of inner tubes. il India Rubber W 72:457-8 My '25

See also Diphenylguanidine; Rubber—Manufacture

Accelerators
Accelerating influence of an azo dye in vulcanisation. T. J. Drakeley, A. Zeitlin and L. H. Williams. Soc Chem Ind J 43:238-9 Jl 18 '24
Acceleration of vulcanisation. W. J. S. Naunton. Chem Age (Lond) 12:155 F 14 '25
Acceleration of vulcanization. L. B. Sebrell and W. W. Vogt. India Rubber W 72:472-3 My '25
Acceleration of vulcanisation by xanthates and the influence of metallic oxides as promoters. D. F. Twiss and F. Thomas. Soc Chem Ind J 42:499-505 D 28 '23; Abstract. India Rubber W 69:305 F '24
Acceleration of vulcanization; influence of the acetone-soluble constituents of rubber on the physical and chemical properties of accelerated rubber stocks. L. B. Sebrell and W. W. Vogt. Ind & Eng Chem 16:792-6 Ag '24
Accelerators and their use. L. Stoll. bibliog Rubber Age 17:407-10+ S 25 '25
Accelerators, old and new. E. R. Bridgwater. Rubber Age 16:405-6 Mr 25 '25
Activity of rubber vulcanising accelerators. Chem Age (Lond) 9:682-3 D 22 '23
Analysis of organic rubber vulcanising accelerators. T. Callan and N. Strafford. Soc Chem Ind J 43:1-8 Ja 4 '24
Coal-tar intermediates as accelerators in rubber vulcanizing. Color Tr J 14:54-6 F '24
Comparative study of some vulcanisation accelerators. D. F. Twiss and F. Thomas. diags Soc Chem Ind J 44:100-6 Mr 6 '25; Summary. India Rubber W 72:408 Ap '25
Determination of the activity of an accelerator of vulcanisation. G. Martin and W. S. Davey. Soc Chem Ind J 43:31-4 F 22 '24

VULCANIZATION—Accelerators—*Continued*
History of organic accelerators in the rubber industry. W. C. Geer and C. W. Bedford. Ind & Eng Chem 17:393-6 Ap '25
Influence of accelerators on plasticity of uncured rubber stocks. S. Krall. Ind & Eng Chem 16:922-4 S '24; Abstract. India Rubber W 71:87 N '24
Manufacture and testing for accelerator action of the di- and tri-arylguanidines. W. J. S. Naunton. Soc Chem Ind J 44:243-7 My 22 '25
Modern compounding ingredients. J: M. Ball. Rubber Age 18:92-4 N 10 '25
Natural and mineral accelerators. A. Dubosc. Rubber Age 16:192-3, 264-5, 335-6, 370-1, 408-9; 17:23-4, 60-1, 96-7, 132-3, 168-9, 240-1, 272-3, 308-10, 341-2, 376-7; 18:24-5 D 25 '24, Ja 25, F 25-S 10, O 10 '25
Reactions of accelerators during vulcanization. C. W. Bedford and H. A. Winkelmann. Ind & Eng Chem 16:32-4 Ja '24
Recent developments in rubber accelerators. J. F. Smith. Ind & Eng Chem 16:1024-6 O '24; Same cond. India Rubber W 71:153-4 D '24
Rubber vulcanising accelerators. V. Lefebure. Chem Age (Lond) 9:630-1 D 8 '23
Self-arresting accelerators. India Rubber W 69:306 F '24
Some new vulcanization accelerators. E. Romani. Rubber Age 14:377-8 F 25 '24
Typical organic accelerators. India Rubber W 72:523-4 Je '25
Use of diphenylguanidine as an accelerator of vulcanisation. W. M. Ames. Soc Chem Ind J 43:117-24 Ap 25 '24; Excerpts. India Rubber W 70:588-9 Je '24
Vulcanization accelerators. G. S. Whitby and H. E. Simmons. Ind & Eng Chem 17:931-5 S '25; Summary. India Rubber W 73:15-16 O '25

VULCANIZED fiber
How Higgs won success with vulcanized fibre. R. F. Higgs. il Am Exporter 94:95+ Ja '24
Parchment and vulcanized fiber. H. Postl. Paper 35:96-100 N 6 '24
Substitute materials that improve the product. B. M. Maynard and W. S. Powers. il Factory 32:250+ F '24

VULCANIZERS
Cooling water for tire vulcanizers. il India Rubber W 70:583-4 Je '24

W

WAALS, Johannes Diderik van der, 1837-1923
Van der Waals memorial lecture. J. H. Jeans. Chem Soc J 123:3358-3414 D '23; Abstract. Soc Chem Ind J (Chem & Ind) 42:1105-6 N 16 '23

WABASH railroad
Annual report, 8th, 1923. Comm & Fin Chr 118:1902-3 Ap 19 '24
Annual report, 9th, for the year ended December 31, 1924. Ry Age 78:1065-7 Ap 25 '25; Same. Comm & Fin Chr 120:1899-1901 Ap 11 '25
Wabash railway company. Moody's Inv Serv 16:201-4 My 15 '24
Wabash to benefit from owning Ann Arbor. Ry Age 78:1542 Je 20 '25

WACO, Texas
Builders of Waco. F: H. Caufield. il Comm & Fin 13:1139+ Je 11 '24

WAGE fixing
Court upholds right of employers to fix wages in Indiana shops. Am Mach 63:374a Ag 27 '25

WAGE payment plans
Burroughs differential wage plan meets every requirement. V. R. Bechtel. Management & Adm 9:135-8 F '25
Check wage payments avoid hold-ups. E: S. Wagner. Management & Adm 9:465-6 My '25
Comparison of premium wage plans. R. F. Miller. Management & Adm 7:699-704 Je '24
Equitable plan for paying office workers by results. P. H. Wilson. il System 46:425-8 O '24
Extra compensation plan adopted by the Bank of Italy. Am Bankers Assn J 17:452+ Ja '25
Extra incentive wage plans grouped. Iron Age 115:1586-9 My 28 '25
Financial incentives for employees. 30p [bibliog. p. 20-5] Am. management assn., 20 Vesey st., New York '23
Group wage-payment plan. H. G. Perkins. Soc Auto Eng J 15:464-6 N '24; Abstract. Automotive Ind 51:758-9 O 30 '24; Discussion. Soc Auto Eng J 15:378-80; 16:516-23 N '24, My '25
How should we pay our labor? K. W. Dunwody. Brick & Clay Rec 67:558-9 O 13 '25
How the automobile industry is approaching the wage payment problem. N. G. Shidle. Automotive Ind 53:495-502 S 24 '25
Incentive systems of wage payment. Harvard Business R 2:474-80 Jl '24
Manit system for measuring and stimulating labor effort. H. Haynes. Mech Eng 46:896-7 D '24
Methods of wage payment; a critical evaluation. Harvard Business R 2:355-61 Ap '24
Methods of wage payment: the day wage. Harvard Business R 3:99-103 O '24
Methods of wage payment—the day wage. Paper Tr J 79:110+ O 30 '24
Payment and incentive in industry. C. Haslett. Cassier's Ind Management 12:479-81 O '25
Payment by results. W. H. Atherton. Cassier's Ind Management 11:186-7 Ap 3 '24
Payment by results; introduction, organization, rate-fixing. J. E. Powell. 411p Longmans '24
Payment of operatives during a training period. Harvard Business R 2:241-8 Ja '24
Piece work system best incentive for individual production. W. C. Dickerman. Automotive Ind 52:1070-1 Je 18 '25
Problem of costing under various wage systems. T: H. Sanders. Paper Tr J 78:57-60 Mr 20 '24
Quality and quantity of output depend upon trained employees; management in southern furniture plants. C: F. Scribner. Management & Adm 10:267-70 N '25
Quality manufacturing at predetermined costs. E. F. Roberts. il Factory 33:495-7+ O '24
Rational works management in factories. J: A. Davenport and J. I. Emery. Ind Management (Lond) 10:326-7; 11:3-5 D 13 '23, Ja 10 '24
Reducing operating costs. J: F. Sherman. Paper Tr J 80:63-5 Mr 12 '25
La rémunération. J. Carlioz. Chimie & Ind 12: 1132-9 D '24
Report of industrial relations committee of National association of ice industries. Refrig W 59:16-21 N '24
Report of sub-committee on welfare of employees as affecting relations of company with customer. Am Gas Assn Accounting sec v 6:383-90; Discussion. 453-5 '24
Standard time system established by the Westinghouse electric & mfg. co., East Pittsburgh, Pa. Foundry 51:947-9 D 1 '23; Same. Iron Tr R 74:1370-2 My 22 '24
Suggestion for a premium system. C. G. Barth. diags Management & Adm 8:71-3 Jl '24
33% more pipe with same equipment. Brick & Clay Rec 66:675-7 Ap 28 '25
This wage-making plan has cut our office costs for three years. P. T. Tobey. il System 48:405-8 O '25
Wage incentives and profit-sharing. G. C. Brown. Management & Adm 7:567-72 My '24
Wage incentives that fit the job. Iron Age 116:534-5 Ag 27 '25
Wage payment systems. P. W. Blair. Metal Ind 21:438-40 N '23
What is surviving in wage payment? Factory 34:44-5 Ja '25

WAGE payment plans—*Continued*
Why our men are turning out more at lower costs. M. P. Whittall. il Factory 32:21-4+ Ja '24
Der zeitakkord, sein wesen, seine auswirkung auf die tarifverträge und seine anwendung. F. Haier. Zeit Ver Deutsch Ing 68:17-21, 53-6 Ja 12-19 '24

See also Bonus system; Payrolls; Piece work; Premiums; Profit sharing; Salesmen—Salaries and commissions

WAGES
Allowances for time lost by Australian building laborers. Monthly Labor R 20:609-10 Mr '25
Battle on wage fundamentals. A. J. Hain. Iron Tr R 74:1450-1 My 29 '24
Comparative real wages in certain capital cities. Monthly Labor R 20:532-9 Mr '25
Comparative real wages in London and certain other capital cities, 1914 and 1923. Monthly Labor R 18:85-9 Ja '24
Comparison of the levels of real wages in certain capital cities. Int Labour R 10:630-52; 11:103-7, 561-72 O '24, Ja, Ap '25
High wages and production. H. V. Roelse. Annalist 22:790 D 17 '23
Increasing probability of wage reduction. Iron Age 113:1765-6 Je 12 '24
Industrial wages in the United States compared with those of other countries. Econ W n s 29:769-70 My 30 '25
Industry and workmen both more prosperous says National industrial conference board. Am Mach 60:36f-g Ja 3 '24; Same abr. Iron Tr R 74:245 Ja 17 '24
International comparisons of real wages. F. Klezl. Int Labour R 12:467-83 O '25
Is the family of five typical? P. H. Douglas. Am Statis Assn J 19:314-28 S '24
President's letters to his workers. System 46:583-7+ N '24
Wage rates and retail prices in various cities. Published in monthly numbers of International labour review
Wage scales in the building trades. Bldg Age 46:100-1 F '24
Wage scales with a reason. M. R. Lott. Management & Adm 9:451-5 My '25
Wage standards and unemployment. Cassier's Ind Management 11:209-10 Ap 17 '24
Wages and hours of labor. Published in monthly numbers of Monthly labor review
Why we hire and keep the highest-waged workers in a seasonal business. P. Salkin. il Factory 32:651-2+ My '24

See also Bonus system; Cost of living; Employees—Rating; Employees as stockholders; Family allowances; Government employees—Salaries; Labor and laboring classes; Minimum wage; Overtime; Payrolls; Pensions, Industrial; Piece work; Prices; Profit sharing; Railroads—Wages; Salaries; Sick leave; Street railroads—Wages; Wage payment plans

Economic aspects

American federation of labor declares for shorter working day and increased wages. Comm & Fin Chr 121:1870 O 17 '25
Background of the A. F. of L. new wage policy. J: W. Love. Annalist 26:507-8 O 23 '25
Collection of decisions presenting principles of wage settlement. H. Feis, ed. 452p [bibliog. p. 441-52] H. W. Wilson co., New York '24
Cost of living; an unsound basis for wage settlements. E. Benn. Electrician 93:16+ Jl 4 '24; Same. Chem Age (Lond) 11:10 Jl 5 '24
Economic problems of industrial organization. F: C. Mills. Management & Adm 7:423-6 Ap '24
Economics of a moron. A. Bradbury. Ptr Ink 126:61-2+ Ja 3 '24
Giving labor product of its toil. A. J. Thompson. Iron Tr R 75:99-101 Jl 10 '24
How fares prosperity, if wages fall? C. M. Wright. Ptr Ink 126:169+ Ja 17 '24
Increase demand as well as production; high wages bring no total increase in purchasing power. Ptr Ink 126:105-6 Ja 17 '24
Is industry able to pay all adult workers enough to support a family of five? P. H. Douglas. Univ J of Business 3:241-54 Je '25
New labor declaration. Nat City Bank p191-5 N '25
Power development and wages—the proposition of the American federation of labor. Comm & Fin Chr 121:1965-6 O 24 '25
Prosperity depends on sound industrial relations. S. A. Lewisohn. Ptr Ink 126:3-4+ Ja 17 '24
Relativity of wages. Engineering 118:489-90 O 3 '24
The wage question. Nat City Bank p 83-6 Je '24
Wages and profits; the forces that govern them. E. Benn. Electrician 92:702 Je 6 '24; Same. Chem Age (Lond) 10:597 Je 7 '24
Wages and the cost of living. R. J. Andersen. Ind Management 68:260-5 N '24
Workers' share. A. Hook. 124p Labour publishing co., ltd., London '24

See also Family allowances

Regulation

Development of state wage regulation in Australia and New Zealand. D. M. Sells. Int Labour R 10:607-29, 779-99, 962-1004 O-D '24

See also Wage fixing

Statistics

Prices and labor rates during the past fifty years. Eng N 92:748-9 Ap 24 '24; Chart. 92: 686a Ap 17 '24
Wage changes during recent months. Int Labour R 9:110-25, 763-78; 10:308-24 Ja, My, Ag '24
Wages of common labor by geographic divisions, 1921-1924. Survey of Cur Business 30: 174-5 F '24 [continued semiannually]

Austria

Effect of currency stabilization on Austrian wages. Monthly Labor R 21:748-50 O '25
Sliding wage scales in Austria. C. Forchheimer. Int Labour R 10:30-47 Jl '24
Wages in Austria, September, 1923. Monthly Labor R 18:83-5 Ja '24

Belgium

Wages in Brussels. August, 1924. Monthly Labor R 19:1070 N '24

Brazil

Trade-union movement and wages in Brazil. J. A. Rowan. Monthly Labor R 21:467-77 S '25

Brooklyn, New York

Survey of the cost of living and average wages in the Borough of Brooklyn in the past ten years. Comm & Fin Chr 120:1537-8, 1949 Mr 28, Ap 18 '25

Canada

Agricultural wages in Canada, 1922 to 1924. Monthly Labor R 21:543 S '25
Current wages in the building trades in Canadian centres, July, 1924. Can Eng 47:216 Ag 5 '24
Minimum wage legislation in Canada and its economic effects. J. W. MacMillan. Int Labour R 9:507-37 Ap '24
Wages and hours of labor in Canada, 1921, 1922, and 1923. Monthly Labor R 18:550-4 Mr '24
Wages and hours of labor in Canada, 1924. Monthly Labor R 20:540-4 Mr '25
Wages of farm laborers in Canada. Monthly Labor R 18:1277 Je '24
Wages of industrial labor in Canada, 1913-1923. H. Mitchell. Econ W n s 28:760-2 N 29 '24

Chile

Wages in Chile, 1922 and 1923. Monthly Labor R 19:1272 D '24

China

Wages and hours of labor in China. Monthly Labor R 18:555-6 Mr '24
Wages of Chinese tea sorters and textile and building workers. Monthly Labour R 19: 573-4 S '24

WAGES—*Continued*

Colorado

Wages in various occupations in Colorado in 1924. Monthly Labor R 20:522-4 Mr '25

Denmark

Wages in agriculture in Denmark, 1924-25. Monthly Labor R 21:91 Jl '25
Wages in various industries in Denmark, 1924. Monthly Labor R 20:1042-4 My '25

Finland

Wages and hours of labor in sawmills in Finland, 1913 to 1924. Monthly Labor R 19: 1273-5 D '24
Wages in the metal industry in Finland, 1913 and 1920 to 1923. Monthly Labor R 19:389-95 Ag '24
Wages of farm laborers in Finland, 1914 to 1923. Monthly Labor R 20:544 Mr '25

France

Average daily wages of French coal miners. Monthly Labor R 21:330-1 Ag '25
Salaries and wages in France in relation to the decreased purchasing power of the franc. Econ W n s 29:591 Ap 25 '25
Wages in France in October, 1924. Monthly Labor R 20:1044-52 My '25
Wages of miners and metal workers in France, 1920 to 1924. Monthly Labor R 19:395-7 Ag '24

Germany

Adaptation of wages to the depreciation of the currency in Germany. F. Sitzler. Int Labour R 9:643-66 My '24
German wages important to Americans. Iron Tr R 75:1380 N 20 '24
Problem of a stable basis for wages in Germany. Monthly Labor R 17:1097-1107 N '23
Real wages in Germany, November, 1923. Monthly Labor R 18:556-8 Mr '24
Relation of wages to prices of products in Germany, 1913-1924. Monthly Labor R 21: 544-5 S '25
Strike in German building trades. Monthly Labor R 21:862 O '25
Wage increase in the German merchant marine. Monthly Labor R 20:1256-7 Je '25
Wage policy of the German government. Monthly Labor R 18:1041-3 My '24
Wage rates and hours of labor in Germany, January, 1924. Monthly Labor R 18:1043-4 My '24
Wage rates in Germany, May, 1924. Monthly Labor R 19:574-5 S '24
Wages and hours of labor in Germany, November and December, 1924. Monthly Labor R 20:832-4 Ap '25

Great Britain

Changes in English wage rates during 1924. Monthly Labor R 20:545-6 Mr '25
Changes in representative wages in British industry. H. B. Allin-Smith. U S Bur For & Dom Com Trade Information Bul 247:1-25 '24
Course of wages. Economist 100:436-7 Mr 7 '25
Determining wages for British workers. Am Mach 62:638b Ap 16 '25
Employment and rates of wages in England. Manuf Rec 86:67 D 25 '24
English legislation concerning agricultural wages. Monthly Labor R 19:823-4 O '24
English wage rates, August, 1914, and December, 1924. Monthly Labor R 20:1053-5 My '25
Fixing of wages in government employment. E. C. Shepherd. 207p Methuen & co., ltd., London '23
Hours of labour and overtime rates of pay in the principal industries in Great Britain. Int Labour R 12:74-82 Jl '25
How workers can secure higher salaries. E. Benn. Gas Age 55:83+ Ja 17 '25
Post-war wages problem. H: Clay. Econ J 34: 1-15 Mr '24
Proposals relating to working hours and wages submitted to the engineering trade unions. Engineering 119:554 My 1 '25
Trend of wages in Great Britain. Economist 99:302-4 Ag 23 '24
Wages in agriculture. Economist 101:335-6 Ag 29 '25
Wages in the building industry. Economist 99:562 O 11 '24
Wages in the cotton industry, 1914-1920. J. W. F. Rowe. Econ J 34:200-10 Je '24

See also Great Britain—Trade boards

Hungary

Adaptation of wages to the cost of living in Hungary. D. Pap. Int Labour R 11:153-68 F '25

Italy

Wage rates and economic condition of Italian workers. Monthly Labor R 21:751-4 O '25

Japan

Wages in Tokio and in Osaka, Japan. Monthly Labor R 20:65 Ja '25
Wages in various occupations in Tokyo in 1921 and 1922. Monthly Labor R 20:548 Mr '25
Wages in various occupations in Tokyo in 1922 and 1923. Monthly Labor R 21:546 S '25

Louisiana

Wages and hours of labor in Louisiana, 1920 to 1923. Monthly Labor R 19:386-7 Ag '24

Massachusetts

Earnings of male and female workers in Mass. manufacturing establishments, Jan. 1924. Monthly Labor R 18:795 Ap '24
Wages and hours of labor in municipal employment in Massachusetts, July 1, 1924. Monthly Labor R 20:801-24 Ap '25

Mexico

Wages in Mexican industries, 1922. Monthly Labor R 18:1279-80 Je '24

Netherlands

Mine workers' wage rates in the Netherlands, April, 1924. Monthly Labor R 19:576 S '24
Wage agreements in merchant marine of the Netherlands. Monthly Labor R 20:1288-92 Je '25
Wages in the Netherlands. 1921, 1922 and 1923, as compared with 1914. Monthly Labor R 17:1338-9 D '23
Wages of metal workers in the Netherlands. Monthly Labor R 20:327 F '25

New South Wales

Changes in wages and hours in New South Wales, 1922 and 1924. Monthly Labor R 19: 1269-72 D '24

New York (city)

Housing situation in New York city as it affects the working classes. W. I. King. Arch Rec 58:180-5 Ag '25

New York (state)

Average weekly earnings of factory employees in New York in January, 1925. Monthly Labor R 20:824-6 Ap '25
Average weekly earnings of industrial employees in New York, May, 1925. Monthly Labor R 21:326-7 Ag '25
Average weekly earnings of New York factory employees, April, 1925. Monthly Labor R 21:87-8 Jl '25
Earnings of factory employees in New York, December, 1924. Monthly Labor R 20:526-7 Mr '25
Earnings of factory workers in New York state increasing. Comm & Fin Chr 119:2358 N 22 '24
Earnings of factory workers in New York state 10% less than a year ago. Comm & Fin Chr 119:17-18 Jl 5 '24
Factory workers' earnings in New York state lower in almost all industries and localities. B. L. Shientag. Comm & Fin Chr 119:513-14 Ag 2 '24
New York state factory earnings in October. Comm & Fin Chr 119:2467 N 29 '24 [continued monthly]

WAGES—*Continued*

North Carolina

Wages in various occupations in North Carolina, 1924. Monthly Labor R 20:1041 My '25

Norway

Wages in agriculture in Norway, 1924-25. Monthly Labor R 21:754 O '25
Wages of farm labor in Norway, 1923-24. Monthly Labor R 19:1071-3 N '24

Oregon

Wages in Oregon industries, 1923. Monthly Labor R 20:528-30 Mr '25

Poland

Wage problems in Poland during and after the war. J. Szturm de Sztrem. Int Labour R 10:389-410 S '24

Porto Rico

Wages in Porto Rico, 1921-22. Monthly Labor R 17:1337 D '23

Russia

Wages and currency reform in soviet Russia. Int Labour R 10:800-24 N '24
Wages in Russia under sovietism. Manuf Rec 87:60 Ja 15 '25

Scandinavia

Wages in agriculture and in industry in the Scandinavian countries. Monthly Labor R 19: 576-89 S '24

Spain

Wages in Barcelona, Spain. Monthly Labor R 19:397 Ag '24
Wages in Madrid, Spain, 1914 and 1923. Monthly Labor R 20:328 F '25

Sweden

Agricultural workers on large-scale farms in Sweden. Int Labour R 12:542-54 O '25
Average wages in certain Swedish industries, 1913 and 1923. Monthly Labor R 20: 66 Ja '25

Tasmania

Rates of wages and hours of labor in Tasmania, 1922-23. Monthly Labor R 18:91 Ja '24

United States

Agricultural wages in the United States, 1866 to 1925. Monthly Labor R 21:745-6 O '25
Changes in union scale of wages and hours of labor, 1913 to 1924. Monthly Labor R 19: 547-72 S '24
Changes in union scale of wages and hours of labor, 1913 to 1925. Monthly Labor R 21:520-42 S '25
Efficiency and wages in the United States. J. J. Davis. Monthly Labor R 20:957-61 My '25
Employment and earnings in selected industries in February. Comm & Fin Chr 120: 2210-13 My 2 '25 [continued monthly]
Employment and incomes of our factory workers. W: A. Berridge. Annalist 26:51 Jl 17 '25
Employment and wages in Pennsylvania and New Jersey. Comm & Fin Chr 118:1331 Mr 22 '24 [continued monthly]
Financial status of water works in the United States as of January 1, 1924. L. Metcalf. Am Water Works Assn J 13:382-91 Ap '25
Highest wages ever reached. Brass W 21:29 Ja '25
Hours and earnings in the paper box-board industry, 1925. Monthly Labor R 21:741-4 O '25
Industrial wages and the general price level in the United States. A. R. Marsh. Econ W n s 27:651-2 My 10 '24
Labor takes smaller share of iron and steel mill incomes. L: H. Haney. Iron Age 116: 694+ S 10 '25
Largest employers have increased workers 65% and wages paid 201% since 1914. Forbes 15:752+ Mr 15 '25
Longshoremen; Atlantic and gulf ports. Monthly Labor R 18:344-7 F '24
Makes survey of wages in rubber industry. Rubber Age 15:95-6 My 10 '24
Miners' wages and the cost of coal. I. Lubin. 316p McGraw-Hill '24
No early prospect of wage recessions. W: Ullman. Annalist 25:711 My 25 '25
Outlook for prices and wages in 1924. H. P. Gillette. Eng & Contr (R & S) 61:4 Ja 2 '24
Roads and wages. Pub Works 55:372 D '24
Some wage changes of past ten years. Eng & Contr (W W) 62:560 S 10 '24
Union scale of wages and hours of labor, May 15, 1923. U S Bur Labor Statistics Bul 354:1-196 '24; Abstract. Eng & Contr (Ry) 62:116 Jl 16 '24
Union scale of wages and hours of labor, May 15, 1924. U S Bur Labor Statistics Bul 388:1-234 '25
Wage rates in the anthracite industry. Monthly Labor R 18:544-8 Mr '24
Wage scales for skilled craftsmen in building trades hold firm. Comm & Fin Chr 119: 517 Ag 2 '24
Wage scales of employees in the building trades, January 1, 1925. Monthly Labor R 20:314-19 F '25
Wages and hours in American industry. 199p National industrial conference board, inc., New York '25
Wages and hours in manufacturing; analysis of iron and steel and the foundry and machine shop groups from July, 1914, to January, 1924. Iron Age 113:1356-7 My 8 '24; Iron Tr R 74:1167-9 My 1 '24; Foundry 52: 379-80 My 15 '24
Wages and hours of labor. Published in monthly numbers of Monthly labor review
Wages and hours of labor in cotton-goods manufacturing, 1924. U S Bur Labor Statistics Bul 371:1-43 '25
Wages and hours of labor in foundries and machine shops, 1923. U S Bur Labor Statistics Bul 362:1-120 '24; Summary. Iron Tr R 75:1440 N 27 '24
Wages and hours of labor in hosiery and underwear mills, 1910-1924. Monthly Labor R 19:538-44 S '24
Wages and hours of labor in lumber manufacturing, 1923. U S Bur Labor Statistics Bul 363:1-32 '24
Wages and hours of labor in the automobile industry, 1922. U S Bur Labor Statistics Bul 348:1-70 '23
Wages and hours of labor in the automobile tire industry 1923. U S Bur Labor Statistics Bul 358:1-58 '24
Wages and hours of labor in the boot and shoe industry: 1907 to 1924. U S Bur Labor Statistics Bul 374:1-107 '25
Wages and hours of labor in the hosiery and underwear industry, 1907 to 1924. U S Bur Labor Statistics Bul 376:1-59 '25
Wages and hours of labor in the iron and steel industry, 1907 to 1922. U S Bur Labor Statistics Bul 353:1-174 '24
Wages and hours of labor in the iron and steel industry: 1907-1924. U S Bur Labor Statistics Bul 381:1-163 '25
Wages and hours of labor in the men's clothing industry 1911-1924. U S Bur Labor Statistics Bul 387:1-51 '25
Wages and hours of labor in the paper and pulp industry, 1923. U S Bur Labor Statistics Bul 365:1-142 '25; Excerpt. Paper Tr J 78:131-2 Ap 10 '24; Same. Monthly Labor R 18:539-44 Mr '24
Wages and hours of labor in the slaughtering and meat-packing industry, 1923. U S Bur Labor Statistics Bul 373:1-117 '25; Abstract. Monthly Labor R 18:1024-34 My '24
Wages and hours of labor in woolen and worsted goods manufacturing, 1924. U S Bur Labor Statistics Bul 377:1-36 '25; Abstract. Monthly Labor R 18:533-8 S '24
Wages back at wartime peak. Iron Tr R 74: 63-7 Ja 3 '24

WAGES—United States—*Continued*
Wages, hours and employment in American manufacturing industries, July, 1914-January, 1924. 104p National industrial conference bd., New York '24
Wages in American industry. Index p 5-6 Mr '25
Wages in sawmills and logging camps in Oregon, Washington, and Idaho, 1924. Monthly Labor R 20:530-2 Mr '25
Wages in the coal industry as compared with wages in other industries. H. B. Drury. charts Ann Am Acad 111:314-43 Ja '24
Wages in the coal tar chemical industry. Chem Age 32:363 S '24
Wages in the steam fitting trade in 101 cities in the United States. Sanitary & Heat Eng 103:87 F 6 '25
Wages of street cleaning department employees. Eng & Contr (R & S) 62:19-20 Jl 2 '24
Wages remaining at high level; what the record of 1924 shows. Iron Tr R 76:42-5 Ja 1 '25
Wages—taxation—immigration. M. W. Alexander. charts Brick & Clay Rec 64:32-7 Ja 8 '24
What the coal miner earns. A. Bezanson. Coal Age 24:880-5 D 13 '23
Which way are wages headed? A. J. Hain. charts Iron Tr R 74:1623-6+ Je 19 '24

Venezuela

Wages in various occupations in Venezuela. Monthly Labor R 19:1277 D '24

Virginia

Wages in Virginia industries, 1923-24. Monthly Labor R 20:826-9 Ap '25

WAGONS

Advertising

Manufacturer becomes advertiser after reaching age of three score and ten; Bain wagons. G. A. Nichols. Ptr Ink 125:129-32 N 29 '23

WAISTS
Waists. N. Kneeland. 149p Shaw '24

WALCOTT, Charles Doolittle, 1851-
President of the American association for the advancement of science. por Sci Am 129:407 D '23

WALDEN inversion
Halogenation of fumaric and maleic acids; a note on the Walden inversion. E. M. Terry and L. Eichelberger. Am Chem Soc J 47: 1067-78 Ap '25
Investigations on the dependence of rotatory power on chemical constitution; further experiments on the Walden inversion. J. Kenyon, H: Phillips and H. G: Turley. Chem Soc J 127:399-417 F '25
Studies on the Walden inversion; the influence of the solvent on the sign of the product in the conversion of β-bromo-β-phenylpropionic acids into β-hydroxy-β-phenylpropionamides. G: Senter and A. M. Ward. Chem Soc J 127:1847-51 Ag '25
Studies on the Walden inversion; the influence of the solvent on the sign of the product in the conversion of β-hydroxy-β-phenylpropionic acids into β-bromo-β-phenylpropionic acids. G: Senter and A. M. Ward. Chem Soc J 125:2137-44 O '24

WALDES museum. See Industrial museums

WALDORF-ASTORIA
Story of the Waldorf-Astoria. E: Hungerford. 283p Putnam '25

WALES
See Coal trade—Wales; Electricity supply—Wales; Hydroelectric plants—Wales

WALKWAYS. See Floors

WALL board
Continuous wall board process. Chem & Met Eng 31:631-2 O 20 '24
Dealer helps at $150 each; Upson company teaches use of wallboard. W. Bates. il Ptr Ink M 11:54+ O '25
Fire-resisting wallboard in industrial plants. H. E. Jeddy. il Ind Eng 83:235-7+ My '25
How to use wall board for artistic interiors. diags Bldg Age 47:144+ F '25
Mineral wall board in severe fire test. il Eng & Contr (Bldgs) 62:935-6 O 22 '24
Painting and decorating wall board. A. A. Kelly. Bldg Age 46:154+ D '24

Specifications

United States government master specification for gypsum wall board. U S Bur Stand Circ 211:1-3 '25

WALL decoration. See Mural painting and decoration

WALL paper
Effective use of wallpaper. E. Hunken. il Bldg Age 46:106 D '24
Historic wall-papers from their inception to the introduction of machinery. N. McClelland. 458p Lippincott '24
How wall paper is made to meet the requirements of world trade. W. B. Flavell. Dun's Int R 44:49-55 O '24
Paint and wallpaper trades. Dun's R 32:8-9 Ja 5; 9+ My 3; 8-9 Ag 30; 8-9 D 27 '24; 33: 8-9 Ap 4 '25
Wall treatments. il Am Arch 125:479-85 My 21 '24
Wallpaper, its history, design and use. P. Ackerman. 268p Stokes '23
Wallpaper—the magic salesman. E: W. Cornet. il Bldg Age 47:142-3 S '25

WALL paper crafts of North America, United. See United wall paper crafts of North America

WALL plaster. See Plaster and plastering

WALL Street
Wall Street. C: F. Howell. il Dun's Int R 43: 43-6 Mr '24
See also New York stock exchange

WALLACE, Henry C., 1866-1924
Sketch. por Ptr Ink 129:74 O 30 '24; Comm & Fin Chr 119:2023 N 1 '24

WALLBOARD. See Wall board

WALLOWER, Frank C., 1882-
Mining engineers of note. por Eng & Min J 116:840 N 17 '23

WALLS
Catechism of central station gas engineering in the United States. Am Gas J 123:33-4, 55-6 Jl 11-18 '25
Construction of power plant walls. il Power Pl Eng 28:1260-1 D 15 '24
Fire-resistive classifications for walls and partitions. Concrete 23:194-5 N '23
Heat loss through wall constructions. A. Kolflaath. il diags Am Soc Heat & V E J 30: 627-43, 661-8 S-O '24
Heat transmission through dwelling house walls; results of tests conducted by the Norwegian government. il diags Am Arch 126:299-306 S 24 '24
Heat transmission through walls and their insulation. Sanitary & Heat Eng 102:85-6 Ag 8 '24
Improved method of determining the heat transfer through wall, floor, and roof sections. R. F. Norris, H. H. Germond, and C. M. Tuttle. diag Am Soc Heat & V E J 30:109-14 F '24
Locating damaging leaks. W. H. Holmes. Bldg Age 46:81+ S '24
New type of heat-insulating wall construction. Heat & Ven 21:48 Mr '24
Parapet walls. il Am Arch 126:395-401 O 22 '24
Preventing defacement of property. J. H. Van Nice. Management & Adm 9:72-3 Ja '25
Recommended minimum requirements for masonry wall construction. Brick & Clay Rec 67:30-1, 179-80 Jl 7, Ag 4 '25; Discussion. Am Arch 128:333-4 O 5 '25
Report of conference on heat transfer through wall structures. Refrig Eng 10:194-5 N '23

WALLS—*Continued*
L'utilité d'isoler les murs de leurs fondations par des matériaux imperméables. Génie Civil 83:649-50 D 29 '23

See also Building; Dampness in buildings; Dams; Foundations; Mural painting and decoration; Partitions; Plaster and plastering; Retaining walls; Sea walls; Wall board

Testing

Neuere untersuchungen über die druckelastizität und druckfestigkeit von mauerwerk. O: Graf. il Zeit Ver Deutsch Ing 68: 1157 N 1 '24

WALLS, Brick
Brick wall. H. Croly. Arch Rec 57:380-1 Ap '25
New Bergwall construction. diag Brick & Clay Rec 67:473-4 S 29 '25
Reduce cost of 12 inch wall 32 per cent. il Brick & Clay Rec 66:493 Mr 31 '25

Testing

Compressive strength of sand-lime brick walls. H. L. Whittemore and A. H. Stang. il U S Bur Stand Tech Pa 276:57-71 '25
Fire tests of brick walls. S. H. Ingberg. Arch Forum 40:sup85-6 My '24; Abstract. Eng N 93:66 Jl 10 '24

WALLS, Concrete
Air space as insulator. Concrete 26:69-70 F '25
Architect designs concrete house construction. diag Concrete 27:32 S '25
Australian concrete cottage. il diags Concrete 26:104 Mr '25
Blasting reinforced concrete wall. diag Eng & Contr (Ry) 62:420 Ag 20 '24
Dvorak system of wall construction. il diags Concrete 24:70-1 F '24
Extra thin concrete house wall. il Eng & Contr (Bldgs) 62:461-2 Ag 27 '24
Floors and sidewalks—walls and chimneys. H. H. Siegele. il diags Concrete 24:168-9 Ap '24
Hollow concrete walls by Phillips system. il diags Concrete 26:135-6 Ap '25
McClure uses wall tie to hold forms. il diag Concrete 24:68-9 F '24
Reducing the cost of concrete bulkheads. T. Aston. il diags Concrete 25:28-30 Jl '24
Thick, double wall concrete construction in California. M. Hunt. il plans Concrete 26: 78-80 Mr '25
Thickness of block walls. Concrete 23:210 N '23

See also Concrete piling; Dams, Concrete; Retaining walls, Concrete; Sea walls, Concrete

WALLS, Garden
Wall treatment, Via Di Aurora, Rome. il plans Am Arch 125:441-2 My 7 '24

WALLS, Grouted
Wood and wire forms for grouted walls. il Concrete 26:136 Ap '25

WALLS, Party
Law as to architecture. C. H. Blake, jr. Am Arch 128:335 O 5 '25

WALNUT
Black walnut for timber and nuts. W. B. Mattoon. il map U S Agric Farmers' Bul 1392: 1-30 '24
Dye from black walnut. Textile Col 47:709 N '25

WALNUTS
Walnut growers demonstrate branded produce brings better prices. Ptr Ink 131:77-8+ Je 4 '25

WALPOLE, Horace, 1717-1797
Strawberry Hill press. Inland Ptr 72:631, 963-4 Ja, Mr '24

WALSMENT
Walsment. Eng & Contr (Bldgs) 63:1144 My 27 '25

WALTON, James C.
Impeachment. Comm & Fin Chr 117:2288-9 N 24 '23

WALWORTH manufacturing company
Coordination of sales and production. J. H. Barber. Taylor Soc Bul 9:111-31 Je '24; Abstract. Iron Age 113:1287+ My 1 '24
Executive airplane. H. Coonley. Management & Adm 7:153-4 F '24
Forecasting the curve of sales. H. R. Simonds. Iron Tr R 74:1043-5 Ap 17 '24
How Walworth speeds slow movers among its 23,000 items. W. C. Mattox. Ptr Ink 131:3-4+ Je 4 '25
Industrial budget methods. J. H. Barber. chart Management & Adm 8:371-6, 479-86, 589-94, 9:15-20, 129-33 O '24-F '25
Walworth uses King John to sell valves to John King. W. C. Mattox. Ptr Ink 132:105-6+ Jl 2 '25
Walworth's method of regulating its sales to coming demand. W. C. Mattox. Ptr Ink 126:3-4+ F 14 '24

WANAMAKER, John
Romantic rise of a great American. R. H. Conwell. 225p Harper '24

WANT ads. See Advertisements, Classified—Want ads; Employment systems—Advertising aids

WAR
International business and politics; bankers and war. Nat City Bank p 148-50 S '24
Outlawry of war. W: Hard and others. Ann Am Acad 120:136-61 Jl '25
Text of protocol to outlaw war approved by League of nation's assembly. Comm & Fin Chr 119:1804-9 O 18 '24

See also Aeronautics, Military; Chemical warfare; Disarmament; Military art and science; Military engineering; Peace; Railroads in war; Trophies, Military

WAR, Munitions of. See Munitions of war

WAR finance
Chapter of war history. Nat City Bank p 153-5 O '24; Same. Econ W n s 28:522-3 O 11 '24

WAR finance corporation
Annual report, 1923. Comm & Fin Chr 118: 146-7 Ja 12 '24
Annual report, 1924. Comm & Fin Chr 119: 2953-6 D 27 '24
Operations of the War finance corporation since the passage of the act of August 24, 1921. Econ W n s 29:18-19 Ja 3 '25

WAR material, Selling of. See United States—War department

WAR memorials
Maryland war memorial, Baltimore. J: H. Scarff. il plans Arch Forum 43:65-8, pl 17-19 Ag '25
New York's war memorial. Arch Forum 40: 227 My '24
Proposed war memorial in Central park, New York. Am Arch 125:106a-d Ja 30 '24
Proposed war memorials for New York. T: Hastings. Arch Forum 40:194-6 My '24
Thrasher-Ward war memorial by Barry Faulkner and Paul Manship in the American academy in Rome. C: H: Dorr. il Arch Rec 58:90-2 Jl '25
War memorial at Southampton, N. Y. diags Arch Forum 43:11-12, pl 5-6 Jl '25

WARD, Artemas, 1849-1925
Artemas Ward, pioneer advertising man passes on. por Ptr Ink 130:33-4+ Mr 19 '25

WARD, George Clinton
Sketch. por Elec W 86:56 Jl 11 '25

WARD, Marcus L., home
Marcus L. Ward home for aged and respectable bachelors and widowers, Maplewood, N.J. il plans Am Arch 127:205-14 Mr 11 '25

WAREHOUSE receipts
New safeguards for federal warehouse receipts through standardized forms. Comm & Fin Chr 120:3146 Je 20 '25
Readily negotiable warehouse receipts lower distribution costs. J. True. Ptr Ink 126:73-4+ F 21 '24

WAREHOUSES
Hour in the fur storage warehouse of Revillon Frères, New York city. il plans Am Arch 126:389-92, pl 136-7 O 22 '24
Lincoln storage company warehouse, Cleveland Ohio. il diag plans Am Arch 127:393-7 Ap 22 '25
Lincoln storage warehouse, Cleveland, Ohio; views. Arch Rec 56:225-7 S '24
Lukens steel co. build warehouse on New Orleans canal. il Iron Tr R 74:237 Ja 17 '24
Marquette company completes cement storage warehouses. il Concrete 23:sup100-1 D '23; Eng N 92:185 Ja 31 '24
Materials handling in the warehouse. M: W. Potts. il Ind Management 66:337-43 D '23
Metropolitan storage warehouse, New York city. Arch & Bldg 56:4, pl 24-5 Ja '24
New iron and steel jobbing warehouse of Horace T. Potts & co., Philadelphia. E. C: Kreutzberg. il Iron Tr R 73:1541-4+ D 6 '23
New type of roof construction; the Lamella system. R. T. McQuinn. il Eng & Contr (Bldgs) 64:931-2 O 28 '25
New warehouse of Blake, Moffitt and Towne. il Paper Tr J 79:34 N 27 '24
Terminal warehouse, 31 South William st., New York. Arch Forum 39:315, pl 111-12 D '23
U.S. steel products co. builds warehouse at Los Angeles. D. Partridge. il Iron Tr R 75: 1011-15 O 16 '24
Warehousing steel on the Pacific coast. D. Partridge. il Iron Tr R 73:1599-1601 D 13 '23

See also Cold storage warehouses; Grain elevators; Storage; Storage industry; Storehouses; Warehousing

Layout

Santa Fé freight terminal and warehouse at Dallas. il diags plans Eng N 93:942-5 D 11 '24

Location

Do we really need railroad frontage, after all? R. H. Ellsworth. il System 46:206-7 Ag '24

Safety measures

Warehouses and shipping rooms. il Nat Safety N 9:49-59 Mr '24

WAREHOUSES, Concrete
Bell-base cylinder piers for a heavy warehouse. R. H. Chambers. il diags plans Eng N 92:287-9 F 14 '24
Cold-storage and terminal warehouse at Cincinnati. il plans Eng N 93:138-42 Jl 24 '24
Large terminals and cold-storage warehouse at Duluth. il diags plan Eng N 92:324-7 F 21 '24
Missouri-Kansas-Texas completes warehouse at Dallas. il diag Ry Age 78:1396 Je 6 '25
Remarkable warehouse construction on made ground. il diags Concrete 26:27 Ja '25
Santa Fé freight terminal and warehouses at Dallas. il diags plans Eng N 93:942-5 D 11 '24

WAREHOUSING
Better warehouse co-operation promises more economical distribution. Ptr Ink 129:122+ O 9 '24
Bonded warehouses and the free zone. Comm M 6:32-4 O '24
Chain of warehouses standardized. il Iron Age 114:386-7 Ag 14 '24
Cold storage warehousing in U.S. F. A. Horne. Refrig W 59:15-19 Ag '24
Commerce bureau completes survey of merchandise warehousing. Sales Management 8:747+ My 16 '25
Dates back 135 years; New England warehouse business wears well; the Congdon & Carpenter co., Providence. H. R. Simonds. Iron Tr R 76:1516-17 Je 4 '25
Elimination of waste; warehouse forms. 36p U.S. Bur. of stand., Washington '25
Hand-to-mouth buying brings upheaval in sales tactics. E. Whitmore. Sales Management 6:943-4 My '24
Handling distribution by zones. G. A. Nichols. Ptr Ink 127:3-4+ Ap 24 '24
How distribution costs can be lowered through warehousing. J. True. Ptr Ink 125:113-16 N 8 '23
How spot stock can strengthen the selling machine. G. A. Nichols. Ptr Ink 126:17-20 Ja 3 '24
How warehousing can prevent seasonal manufacturing. H. A. Haring. Ptr Ink 129:107-8+ D 4 '24
How warehousing can promote spot stock turnover. H. A. Haring. Ptr Ink 129:57-8+ N 20 '24
How warehousing can protect and finance merchandise. H. A. Haring. Ptr Ink 129:155-6+ D 18 '24
How warehousing costs can be turned into extra profits. H. A. Haring. Ptr Ink 132: 25-6+ Ag 6 '25
How we make small-lot buying yield extra profits. D. Hubbard. Ptr Ink 130:110+ Mr 19 '25
Merchandise warehouse in distribution. A. L. Cricher. U S Bur For & Dom Com Trade Promotion Ser 15:1-33 '25
United States warehouse act. H. S. Yohe. Textile World 66:2823+ N 15 '24
Warehousing system that makes selling and advertising more effective; Pee Gee paint. B. A. Fueglein. Ptr Ink 126:129-30+ F 7 '24

See also Cold storage; Warehouse receipts

Cost

Wirtschaftliche grundlagen der lagerung und stapelung. H. Aumund. diags Zeit Ver Deutsch Ing 69:1225-32 S 19 '25

WARM air heating. See Furnaces, Warm air; Heating, Warm air

WARPING machines
Warper equipped with the slack sides preventor. il diag Textile World 67:2999 My 2 '25

WARRANTY
Limits on a vendor's warranty. L. Childs. Factory 31:820+ D '23
Loosely drawn contracts invite litigation; implied warranty of fitness of machinery for purpose purchased. L. Childs. Power Pl Eng 28:958-9 S 15 '24

WARREN, Charles B.
New attorney-general. Comm & Fin Chr 120: 411 Ja 24 '25
Senate rejects Charles B. Warren for attorney-general—first rejection of a cabinet appointment in nearly sixty years. Comm & Fin Chr 120:1284 Mr 14 '25

WARREN foundry and pipe company
Replogle purchase of Warren pipe foundry. Iron Age 114:525 Ag 28 '24

WARRENITE. See Pavements, Bitulithic

WARRIOR river
Warrior river—the port of Birmingham. W. D. Nesbitt. il Comm & Fin 14:1109-10 Je 3 '25

WARSHIPS
Problems in cruiser design. Engineer 138: 497-8 O 31 '24
Strategical and tactical considerations governing warship design. D. Sturdee. il Engineering 117:475-6 Ap 11 '24; Excerpts. Engineer 137:381-2 Ap 11 '24; Discussion. Engineering 117:472-3 Ap 11 '24; Engineer 137:382 Ap 11 '24; Abstract. Marine Eng 29:372 Je '24
War fleets of the nations. Engineering 119: 467-8 Ap 17 '25

See also Airplane carriers; Navies; Submarine boats; Torpedo boat destroyers; Torpedo boats; *also* subdivision Navy under names of countries, e.g. Great Britain—Navy

Demolition

Burning big steel to pieces. G. O. Carter. il Am Ind 24:31-3 F '24
Making sausages of the dogs of war. il Am Mach 60:920-2 Je 19 '24
Salvaging hulls of battleships. C: A. Barnes. il Iron Tr R 74:932-4 Ap 3 '24; Same. Marine R 54:330-2 Ag '24

WARSHIPS—Demolition—*Continued*
Scrapping Uncle Sam's warships. J. N. Jordan. il Marine Eng 29:697-702 D '24
Scrapping warships; abstracts. H. E. Rossell. Marine Eng 29:733-5 D '24; Iron Age 114: 1554-5 D 11 '24
Ship scrapping with oxy-acetylene. il Iron Age 112:1303-6 N 15 '23

Equipment

Foundries on our men of war. A. M. Charlton. il diags plans Foundry 52:584-8 Ag 1 '24; Same. Iron Tr R 75:416-20 Ag 14 '24

Great Britain

Launch of H. M. battleship Nelson. il Engineering 120:332 S 11 '25; Engineer 140:266 S 11 '25
Navy at the British Empire exhibition. diags Engineering 117:675-6, 801-4 My 23, Je 20 '24
New battleships. Engineer 140:218 Ag 28 '25
New battleships Nelson and Rodney. Engineer 139:49-50 Ja 9 '25
New treaty battleships Nelson and Rodney. H. C. Bywater. il Sci Am 133:250-1 O '25

Italy

New Italian scouts. il Engineer 139:456, 600, 604-6 Ap 24, My 29 '25
New Italian warships. diags Engineer 138: 605-6 N 28 '24

Sweden

New destroyers for Swedish navy. diag plan Engineer 139:685 Je 19 '25

United States

America's all-electric battle fleet. B. S. Havens. il Am Ind 24:5-10 F '24
Battleship Mississippi disaster. il diags Sci Am 131:176+ S '24
Electrically-propelled battleship; U.S.S. Colorado. il Elec R (Lond) 93:701-3 N 9 '23
Life on board U.S.S. Colorado; changes in naval sea service from 1856-1923. R. R. Belknap. il Sci Am 130:30-1 Ja '24
Our latest battleship—the Colorado. Sci Am 130:320 My '24
U.S. battleship Colorado. il diags Engineer 137:90-2, 96, 120 Ja 25-F 1 '24
U.S.S. West Virginia goes into commission this month. il Marine Eng 28:783 D '23

See also United States—Navy

WARWICK, England

Architecture

Smaller civil architecture of England; the County sessions house, Warwick. R. W. Ramsdell and H. D. Eberlein. il diags Arch Forum 41:173-6 O '24

WASHERS (machinery)
Non-slip washer and block for toolposts. C: F. Henry. diags Am Mach 61:934 D 11 '24; Discussion. A. Silvester. 62:285-6 F 12 '25
Pneumatic punch for cutting leather washers. J. Williams. il Am Mach 62:210 Ja 29 '25
Shouldered washer made by coining. A. Ferber. il Am Mach 60:147 Ja 24 '24

WASHHOUSES, Mine. See Mine washhouses

WASHING machines
New type of washing machine. diag Color Tr J 15:92-3 S '24
Washing-machine sales. Survey of Cur Business 36:55 Ag; 39:97 N '24

See also Laundry machinery

Advertising

Getting dealers to swap selling experiences; manufacturer of A B C washing machines compiles manual to help retailers. Ptr Ink 125:105-6+ D 27 '23

Manufacture

Cast aluminum washer tubs. P. Dwyer. il Foundry 53:556-9+ Jl 15 '25

Merchandizing

Selling cast aluminum washing machines. P. Dwyer. il Foundry 53:469-72 Je 15 '25
Specialty helps sale of plumbing. M. Marvels. il Dom Eng 111:16-18 My 9 '25

WASHING machines, Electric
Choosing and using an electric washer. Elec R (Lond) 97:366-8, 406-7 S 4-11 '25

Advertising

St Louis electrical dealers turn local street car system into sales producing medium for new washing machine. il J Elec 52:501 Je 15 '24

Directories

Journal of electricity appliance directories. J Elec 55:296-7 O 15 '25

Manufacture

Applying automobile methods to building washing machines. F. H. Colvin. il Am Mach 62:447-52 Mr 19 '25
Electric washer production methods. il Iron Age 115:819-22 Mr 19 '25
One machine per man per day. E. F. Ross. il plan Iron Tr R 76:745-8+ Mr 19 '25

Merchandizing

Do electrical washers aid sales of all gas laundries? Gas Age 55:625-6 Ap 25 '25
Novel displays increase washing machine sales. il J Elec 54:183 Mr 1 '25
Selling 145 washing machines in twelve days. W. T. Ryan. Elec W 83:839 Ap 26 '24
Shall the contractor-dealer sell washing machines? E. A. Norton. J Elec 52:498-9 Je 15 '24
Working against a quota in the washer campaign. M. L. Cummings, jr. il J Elec 53:338-9 N 1 '24

Statistics

Sales of washing machines; month by month record for the years 1923-1924. Elec W 85: 740 Ap 4 '25

WASHINGTON, Booker T.

Memorials

Booker T. Washington monument, Tuskegee, Ala.; view. Am Arch 127:509 Je 3 '25

WASHINGTON, George
Address at celebration commemorating assumption of command of army by George Washington. C. Coolidge. Comm & Fin Chr 121:149-52 Jl 11 '25

Memorials

Foundations for the George Washington national masonic memorial, Alexandria, Va. il plans Am Arch 125:211-16 F 27 '24

WASHINGTON, D. C.
Development of Washington. Am Inst Arch J 12:144-6, 199-201, 246-8 Mr-My '24
Floods in the Potomac. Eng N 92:911, 1031 My 22, Je 12 '24
Zoning law of Washington, D.C., upheld by District court. Eng N 95:117 Jl 16 '25

See also National museum of fine arts (proposed)

Bridges

Arlington memorial bridge, District of Columbia; views and plan. Am Inst Arch J 12: 65-71 F '24

Cathedral of St Peter and St Paul

Cathedral of St Peter and St Paul, Washington, D.C. P. H. Frohman. il plan Am Arch 127:355-68, pl 97-107 Ap 22 '25
Washington cathedral. il Eng & Contr (Bldgs) 64:679-82 S 23 '25

Hotels

Hotel Hamilton. Arch Forum 39:pls 89-90 N '23

Octagon house

Competition for an historical device for Octagon House, Washington, D.C. il plan Am Arch 127:75-6 Ja 28 '25

Public buildings

Dozens of jobs for one smiling man; Col. C. O. Sherrill, director of public buildings and public parks of the nation's capital. F: Beckmann. il Nation's Business 13:27-9 S '25

WASHINGTON, D.C.—*Continued*

Railroads

Belt line railroad around Washington. Eng N 95:233 Ag 6 '25

Rapid transit

Bringing safety to the patron. S. R. Bowen. Aera 14:393-6 O '25

Capital traction has successful year in 1923. Elec Ry J 64:901-2 N 22 '24

Court voids valuation placed on Capital traction company's property in 1919. Comm & Fin Chr 121:328 Jl 18 '25

Five-cent fare would spell ruin in Washington. Elec Ry J 63:397 Mr 8 '24

I. C. C. holds Washington company is not subject to its rules as regards depreciation. Elec Ry J 63:43-4 Ja 5 '24

Petition for 10-cent fare in Washington, D.C. denied. Bus Transportation 3:439 S '24

Report of the Washington rapid transit company, year ended December 31, 1924. Bus Transportation 4:468 S '25

Revenue passengers decreasing on the Washington railway & electric company. Elec Ry J 63:311 F 23 '24

Serving Washington by three independent transportation agencies. diags map Elec Ry J 66.817-21 N 7 '25

Traffic continues to decline on Washington railway & electric company. Elec Ry J 65: 278 F 14 '25

Transportation problems studied in the District of Columbia. maps Elec Ry J 66:767-72 O 31 '25

Transportation survey made for District of Columbia. Eng N 95:721 O 29 '25

Transporting workers in Washington, D.C. J: A. Miller, jr. il map Elec Ry J 65:247-51 F 14 '25

Washington rapid transit company renews 10-cent fare plea. Bus Transportation 3:591 D '24

What the Washington traffic survey reveals. W: E. R. Covell. il Forbes 17:16-18 O 15 '25

See also Washington-Virginia railway

Water supply

City of Washington builds nine-mile aqueduct. il plan map Eng N 95:88-93 Jl 16 '25

Water supply and distribution system of Washington, D.C. J: E. Wood. diag Eng & Contr (W W) 62:575-9 S 10 '24

WASHINGTON (state)

See also Coal—Washington (state); Geology—Washington (state); Gold mines and mining—Washington (state); Hydroelectric plants—Washington (state); Irrigation—Washington (state); Labor laws and legislation—Washington (state); Mines and mineral resources—Washington (state); Railroads—Washington (state); Roads—Washington (state)

Industries and resources

I visit our northwest corner. M. Thorpe. il Nation's Business 13:25-7 Ap '25

WASHINGTON, Baltimore & Annapolis electric railroad

$39,734 after dividends for Baltimore interurban. Elec Ry J 65:713 My 2 '25

WASHINGTON university, St Louis, Missouri

Duncker Hall of commerce and finance, Washington university, St Louis, Missouri; views and plans. Arch Rec 57:225-31 Mr '25

WASHINGTON-Virginia railway

Tourist business increased 20 per cent on Washington-Virginia railway. il Elec Ry J 66:387-90 S 12 '25

WASPS

Wasps as engineers. H. Mace. Sci Am 131:97 Ag '24

Wasps the earliest paper chemists. H. Elliott. Chem Age 33:59-60 F '25

WASTE

Are we gaining ground in waste elimination? Factory 34:47-8 Ja '25

Attacking the utility sector of factory overhead. N. L. Sammis. Ind Management 70: 33-8 Jl '25

Die bewirtschaftung der hilfsstoffe. O: Klein. Zeit Ver Deutsch Ing 68:562-5 My 31 '24

Controlling wastes in the tire plant. il India Rubber W 69:146-8 D '23

Correct costing of waste. R. B. Hobson. Cassier's Ind Management 11:381-2 Ag '24

Cutting down the waste pile. R. M. Hudson. Management & Adm 9:413-16 My '25

Cutting out waste in distribution. A. L. Filene. Nation's Business 13:35-7 N '25

Economy—as necessary in good times as in bad. F. Saunders. Ind Management 70:263-4 N '25

Elimination of national waste; extracts from annual report of Secretary of commerce. H. Hoover. Comm & Fin Chr 119:2488-9 N 29 '24; Same. Am Ind 25:8-9 D '24; Abstract. Mech Eng 47:36 Ja '25

Factory losses and wastes. N. L. Sammis. Ind Management 69:321-9 Je '25

High cost of waste shown in bulletin of Bethlehem steel corporation. Iron Age 113: 1506 My 22 '24

Inefficiency and waste in American industry. B: P. Chass. Ind Management 70:239-41 O '25

Management's attack on waste. G. Swope. Management & Adm 9:511-12 Je '25; Same. Paper Tr J 80:56 Je 25 '25; Same. Cassier's Ind Management 12:408-9 Ag '25

Prevention and salvage of waste at Westinghouse. C. B. Auel. il Management & Adm 7:669-74; 8:65-70, 185-90 Je-Ag '24

Problem of industrial waste. Cassier's Ind Management 12:193 Mr '25

Reducing cost of distribution. J: W. O'Leary. il Iron Tr R 77:959-60 O 15 '25

Relativity of waste. A. P. Dennis. il Nation's Business 13:30-2 Ja; 27-8 F '25

Ruthless waste of wealth. W: E. Knox. Am Bankers Assn J 18:17-18 Jl '25

Saving $1,000 every business day. H. T. Morgan. System 47:741-6+ Je '25

Six ways to eliminate waste. R. M. Hudson. Management & Adm 10:71-4 Ag '25; Same. Paper Tr J 81:55-8 Ag 27 '25

Some of the manufacturers' wastes. I. S. Paull. Nation's Business 13:70+ My '25

Tragedy of waste. S. Chase. 296p Macmillan '25

Utilization and prevention of waste. C. B. Auel. Soc Auto Eng J 15:407-11 N '24; Same. cond. Am Mach 61:681-4 O 30 '24; Discussion. Soc Auto Eng J 15:383-4; 16:223-5 N '24, F '25

War on waste in industry through simplification methods—nine groups estimate savings at $293,600,000 annually. Comm & Fin Chr 121:924-5 Ag 22 '25; Am Mach 63:334a Ag 20 '25

Warring on waste. Published in monthly numbers of Factory for 1924

Wastage of men. E. Stewart. Monthly Labor R 19:1-8 Jl '24

Waste. T. Westgarth. Engineer 138:476 O 24 '24; Abstract. Electrician 93:463 O 24 '24

Waste elimination and the minimizing of industrial controversy discussed at the First "industrial round table" of the National civic federation. Elec W 85:843-4 Ap 18 '25

Waste elimination through executive control. W. P. Lukens. Management & Adm 9:63-6 Ja '25

Waste in industry and methods of combating it. C: H. MacDowell. Chem Age 32: 475-7 D '24; Same cond. Chem & Met Eng 31:860-1 D 1 '24

Waste in the distribution department. E. L. Oughton. Gas J (Lond) 164:782-3 D 19 '23

Wastes classified. H. Hoover. Blast F & Steel Pl 13:109 Mr '25

Wastes in trade relations. A. L. Filene. Am Management R 14:339-40 N '25

WASTE—*Continued*
What the workers' waste means. S. Seiders. Am Ind 25:22-3 Ja '25

See also Brick works—Waste; Cotton waste; Electric railroads—Scrap material; Fires; Metal waste; Paper mills—Waste; Petroleum—Conservation; Railroads—Scrap material; Rubber waste; Salvage (waste, etc.); Scrap material; Scrap metal; Spoilage; Steel waste; Time saving; Trade waste; Waste fuel; Waste heat; Waste paper; Waste products; Water waste; Wood waste; Wool waste

WASTE, Utilization of
Waste renovating plant at Beech Grove, Ind.; reclaiming journal box packing. il diag plan Ry R 73:931-5 D 29 '23

See also Salvage (waste, etc.); Waste products

WASTE disposal. See Refuse disposal; Waste removal

WASTE fuel
How we use waste to cut power costs. F. Orey. il Factory 35:88+ Jl '25
Recovering gas from carbonaceous wastes. C. H. S. Tupholme. diags Chem & Met Eng 31: 188-90 Ag 4 '24

See also Coke breeze; Wood as fuel

WASTE heat
Die abwärmeverwertung in orts- und fernheizwerken. C. Eberle. diags Zeit Ver Deutsch Ing 69:297-301, 376-81 Mr 7, 21 '25
Clyde marine oil engines. A. L. Mellanby. il diags Engineer 136:620; Discussion. 620-2 D 7 '23; Engineering 116:719-20 D 7 '23
District heating by waste heat from Diesel engines. H. Doevenspeck. Power 62:412 S 15 '25
Evaporating black liquor. R. W. MacGregor. Paper Tr J 81:57-8 O 1 '25
Generated vs. purchased power in various industries; report of Pacific coast electrical association. J Elec 54:412-15 Je 1 '25
Getting the most out of waste steam. C: P. Putnam. Power 60:604 O 14 '24
Greenock corporation waste heat installation; a sugar refinery steam plant. W: Hall. il Elec R (Lond) 95:282-4 Ag 22 '24
How a textile finishing plant saves steam. H: M. Burke. il chart Power 59:109-10 Ja 15 '24
Künstliche drahttrocknungsanlagen mit abwärmeausnutzung. O: Brandt. il diags Stahl & Eisen 45:1605-7 S 17 '25
Making the refinery show a profit by reducing operating costs. P. Truesdell. Nat Pet N 15:23-4+ D 26 '23
Plant heated by oven waste. il Iron Age 113: 861 Mr 20 '24
Profit from waste heat. C. M. Walker. diag Gas Age 54:821-2 D 13 '24
Reciprocal utilisation of waste energy. B. M. Gerbel. Engineering 118:75-6 Jl 11 '24
Recovery of waste heat from furnaces. W: N. Booth. Gas J (Lond) 170:49-53 Ap 1 '25
Recovery of waste heat in open-hearth practice. W. Dyrssen. bibliog diags Iron & Steel Inst J 109:175-222 no 1 '24; Same cond. Stahl & Eisen 45:1276-83 Jl 23 '25; Summary. Engineer 137:565 My 23 '24; Same. Iron Age 113:1641 Je 5 '24; Discussion. Iron & Steel Inst J 109:223-55 no 1 '24; Engineer 137:565 My 23 '24; Engineering 117:632-3 My 16 '24; Iron Age 113:1641-3 Je 5 '24
Reduction of paper cost by utilizing waste heat from the paper machine. J. O. Ross. diags Paper Tr J 77:48-50 N 22 '23
Using by-products in flour mill heating and humidifying. E. K. Campbell. il diags Am Soc Heat & V E J 30:349-58 My '24; Abstracts. Heat & Ven 21:59-61 Jl '24; Power 60:308 Ag 19 '24
Utilization of waste heat from coke ovens. A. Parker. Gas J (Lond) 170:180-1 Ap 15 '25
Utilization of waste heat in Mexican cement plant. A. B. Stewart. il diags plans Concrete 24:sup49-57 Ap '24
Utilizing the waste heat from the cupola; abstract. G. E. Booker. diags Mech Eng 46: 47-8 Ja '24
Utilizing waste heat. Marine Eng 30:569 O '25
Waste heat and benzole recovery. diag Gas J (Lond) 168:711 D 10 '24; Am Gas J 122:165 F 21 '25
Waste heat and its insulation from Glover-West verticals and other carbonizing plant. J. S. Thorman. il diags Gas J (Lond) 164: 577-81 N 28 '23; Discussion. 164:644-5, 719 D 5-12 '23
Waste heat from cement kilns operates entire mill. H. A. Schaffer. Chem & Met Eng 29: 18-19 Jl 2 '23; Same. Concrete 23:sup106-7 D '23
Waste heat in pulp and paper mills. Dr von Lassberg. il Paper Tr J 79:45-9 D 11; 49-54 D 18 '24
Waste heat recovery on ships. Engineer 136: 617-18 D 7 '23
Waste-heat utilization. E. Blau. diags Power 61:552 Ap 7 '25
Weir heat regeneration system. plan Power 61:208 F 10 '25

See also Blast furnace gas; Boilers, Waste heat; Coke-oven gas; Exhaust steam; Furnaces, Recuperative and regenerative; Gas and oil engines—Exhaust

WASTE heat boilers. See Boilers, Waste heat

WASTE paper
Making new paper out of old. Paper 34:519+ Jl 10 '24
Paper deinking processes which are subjects of patents. Paper 35:509-10 Ja 8 '25
Paper recovery system; continuous de-inking process. diag Paper 33:16-17 F 28 '24; Chem & Met Eng 30:481 Mr 24 '24
Paperboard and its manufacture. A. O. Bragg. Paper Tr J 80:41-5 Je 18 '25
Save your waste paper and you save forests. O. B. Andrews. il Forbes 14:666-7+ S 1 '24
Use of de-inked stock in production of book paper. H. J. Payne. il Chem & Met Eng 29:1176-80 D 31 '23

See also Refuse receptacles

WASTE products
Advertising opportunities that abound in the waste products of industry; help afforded at Washington. Ptr Ink 126:97-8+ Mr 20 '24
Associations find new products to merchandise; fruit research. Ptr Ink 130:49-50 F 19 '25
La chimie des résidus. V: Cambon. Chimie & Ind 10:1153-4 D '23
Problems in waste product recovery and air purification. A. L. Greene. Chem & Met Eng 30:992 Je 23 '24
Relativity of waste. A. P. Dennis. il Nation's Business 13:27-8 F '25
Treatment of waste waters from dyeing processes. S. N. Brown. Soc Dyers & Col J 40: 144-7 My '24; Same. Am Dyestuff Rep 13: 569-71 Ag 25 '24
Turning calcium sulphate wastes into valuable products; fireproof tile and stucco. G. L. Montgomery. il Chem & Met Eng 32: 547-51 Je '25
Turning waste into clear profit; feeding stuff from fish and shrimp scrap. Ptr Ink 126: 185+ Ja 10 '24
Useful products made from waste materials. H. E. Howe. Management & Adm 8:46 Jl '24
Uses of waste material. A. Bruttini. 367p P S. King & son, ltd., London '23
Waste from cannery products furnishes oil and fuel. il Management & Adm 8:275-6 S '24
Waste products engineering; California has created profitable outlet for discarded fruit pits. A. W. Allen. il Chem & Met Eng 32:435-6 Ap '25
Waste products of dye works. E. T. Ellis. Chemicals (Dyestuffs sec) 17:118 N 9 '25

WASTE products—*Continued*

Waste reclamation in a food products industry. il Management & Adm 7:422 Ap '24

See also Bagasse; Beets and beet sugar—By-products; Blast furnace gas; Coal waste; Coke manufacture—By-products; Coke-oven gas; Corncobs; Cotton waste; Cottonseed; Electric precipitation; Fish meal; Fisheries—By-products; Flue dust; Flue gas; Gas manufacture—By-products; Leather distillation; Leather waste; Linen waste; Metal waste; Paper making—By-products; Petroleum refining—By-products; Railroads—Scrap material; Refuse, Utilization of; Rubber waste; Salvage (waste, etc.); Sawdust; Scrap metal; Sewage sludge; Silk waste; Slag; Slate waste; Sulfite liquor; Tar; Trade waste; Waste paper; Wood waste; Wool fat; Wool waste

WASTE removal

Humidity turned the trick; removing shavings, chips, and sawdust from woodworking machines. C. Lynndelle. Factory 33:258+ Ag '24

See also Dust removal; Exhaust systems

WASTE wood. See Bark; Wood waste

WATCH springs

Why watch springs break. Sci Am 130:107 F '24

WATCHES

Swiss watchmaking industry. Economist 99: 1050 D 27 '24

Watch jewels. Sci Am 131:243 O '24

Zernickow laboratory timer stop watch no. 300. il Am Mach 63:677 O 22 '25; Elec Ry J 66:746 O 24 '25

See also Watch springs

Advertising

How Elgin watch discovered copy experts among users. De F. Hulburd. Ptr Ink 131:73-4+ Ap 9 '25

Manufacture

Glimpse into the works of the Elgin national watch company. il Ind Eng 82:558-9+ D '24

Large uses of steel in small ways; watch hands. il Iron Tr R 76:1634+ Je 25 '25

Modified type of sub-press die. H. M. Groff. diags Mach 31:425-6 F '25

WATCHMEN

Organization of watchman department. Textile World 66:1870+ O 4 '24

Undesirables keep out! watchmen and badges. L. M. Stowell. Management & Adm 9:437-8 My '25

WATCHMEN'S clocks

Watchman's clock protection. Safety Eng 49: 177+ Ap '25

WATER

Action of natural waters on metallic copper. H. Henstock. Soc Chem Ind J 44:219-20 My 8 '25

Dielectric properties of water for continuous waves. G. C. Southworth. diags Phys R 23: 631-40 My '24

Effect of a current of air on the rate of evaporation of water below the boiling point. G. W. Himus and J. W. Hinchley. bibliog il Soc Chem Ind J (Chem & Ind) 43: 840-5 Ag 22 '24

Expansion effect of heat. Am Gas J 121:751-2 Ag 16 '24

Freezing of water in capillary systems; a critical discussion. E. A. Fisher. J Phys Chem 28:360-7 Ap '24

Influence of curvature on air saturation of water and its relation to the air-binding of filters. J: R. Baylis. bibliog Ind & Eng Chem 17:974-9 S '25

Influence of thin surface films on the evaporation of water. G. Hedestrand. diag J Phys Chem 28:1245-52 D '24

Influence of water in making quality ice. D. K. French. Refrig W 60:23-4 S '25

Influence of water on certain chemical reactions. L. B. Parsons. diag Am Chem Soc J 47:1817-35 Jl '25

Mechanism of absorption of moderately soluble gases in water. H. G. Becker. diag Ind & Eng Chem 16:1220-4 D '24

Motion of an air bubble rising in water. O. Miyagi. diags Philos Mag 6th ser 50:112-40, pl 3 Jl '25

Reactions at the interface of two immiscible liquids and the part played by the vapour of each; the reaction between water and benzyl chloride. G: Harker. diag Chem Soc J 125: 500-11 Mr '24

Structure of surface films on water. N. K. Adam. bibliog diags J Phys Chem 29:87-101 Ja '25

Synthesis of water over nickel and copper catalysts. A. T. Larson and F. E. Smith. diag Am Chem Soc J 47:346-55 F '25

Tests of impure waters for mixing concrete. D. A. Abrams. 44p Structural materials research laboratory, Lewis institute, Chicago '24; Same. Am Concrete Inst Pro 20: 442-86 '24; Excerpts. Pub Works 56:31 Ja '25; Summary. Concrete 24:241-3 Je '24; Same. Can Eng 46:617-18 Je 17 '24; Same. Eng & Contr (R & S) 61:1229-31 Je 4 '24; Same. Ry R 75:277-9 Ag 23 '24

See also Cooling of water; Drops; Erosion; Feed water; Floods; Fog; Hydration; Hydraulic engineering; Hydraulics; Ice; Irrigation; Lakes; Mine water; Moisture; Ocean; Pumping; Rain and rainfall; Rivers; Sea water; Snow; Solution (chemistry); Springs; Steam; Water supply and other headings beginning Water; Waterways; Waves; Wells

Analysis

Apparatus for control of boiler water treatment based on chemical equilibrium. R. E. Hall, H. A. Otto and H. A. Jackson. il diags Ind & Eng Chem 17:409-11 Ap '25

Correct samples of water to analyze for oxygen. H. Edwards. diag Power Pl Eng 28:200 F 1 '24

Defect in permanent color standards due to variations in cobalt chloride. M. C. Whipple. Eng & Contr (W W) 62:80-4 Jl 9 '24

Determination of dissolved air in small quantities of water. H. G. Becker and W. E. Abbott. diag Soc Chem Ind J 42:484-6 D 14 '23

Determination of manganese in water by the sodium bismuthate method. W. D. Collins and M. D. Foster. Ind & Eng Chem 16:586 Je '24

Determination of minute amounts of phenols in polluted natural waters. L. R. Vorce. Ind & Eng Chem 17:751 Jl '25

Determination of water in mixtures of ether, alcohol, and water. R. K. Newman. diag Soc Chem Ind J 43:285-7 S 5 '24

Examination of waters and water supplies. J: C. Thresh and J: F. Beale. 3d ed. 590p Blakiston '25

Field method for determining dissolved oxygen. G. A. DeGraaf. il diag Power 58:930-3 D 11 '23; Discussion. D. H. Jackson. 59: 261-2 F 12 '24

Interpretation of water analyses. J. W. Kellog. Am Water Works Assn J 14:120-2 Ag '25; Same. Eng & Contr (W W) 64:1295-6 D 9 '25

Methods of water analysis; details of questionnaire sent out to various countries. Can Eng 46:232 F 12 '24

Proposed rapid methods of water analysis for boiler purposes (applicable to railroads and small steam plants) with interpretation of results. Am Water Works Assn J 14:107-15 Ag '25

Rate of deoxygenation of polluted waters. E. J. Theriault. Am Soc C E Pro 51:1819-28 N '25

Report of committee no. 1, on standard methods of water analysis. Am Water Works Assn J 14:343-7 O '25

Soluble aluminium and the hematoxylin test in filtered waters. W: D. Hatfield. Ind & Eng Chem 16:233-4 Mr '24

WATER—Analysis—*Continued*

Standard methods of water analysis. Ry R 74: 559-61 Mr 22 '24

Standard methods of water analysis; report of committee no 1. Can Eng 47:131-3 Jl 8 '24

Supervision of water treatment plants in Michigan. E: D. Rich. Eng N 92:73 Ja 10 '24

Test for corrosibility of water. J. W. Ledoux. Eng N 93:861 N 27 '24

Total alumina in water (modified Atack's method) colorimetric determination. F. O. Baldwin. Am Water Works Assn J 12:439-40 D '24

See also Water—Bacteriology

Bibliography

Bibliography on the detection of phenols in water supplies. Am Water Works Assn J 14:348-51 O '25

Bacteriology

Anaerobic, lactose-fermenting spore-bearers in the city of Minneapolis water supply. F. Raab. Am Water Works Assn J 10:1051-5 N '23

Anaerobic, spore-forming fermenter. C. K. Calvert. Am Water Works Assn J 11:307-10 Ja '24

Bacteria detection and removal. A. L. Googins. Can Eng 49:156 Jl 21 '25

Bacteriological examination of water. C. T. Butterfield. Eng & Contr (W W) 62:1283-5 D 10 '24; Same. Can Eng 49:500-1 O 27 '25

Colon-aerogenes differentiation at Cincinnati. C. Bahlman and H: Sohn. bibliog Am Water Works Assn J 11:416-33 Mr '24

Disturbing factors in the presumptive test for B coli. G. B. Leitch. Am Water Works Assn J 13:186-92 F '25

Elements of water bacteriology with special reference to sanitary water analysis. S: C. Prescott and C:-E: A. Winslow. 4th ed. 211p Wiley '24

Filter loading studies on Ohio river, by government. H. W. Streeter. Eng N 93:962 D 11 '24

Habits and vitality of certain bacteria. H. W. Clark. Eng & Contr (W W) 63:553-4 Mr 11 '25

Hydrogen ion concentration and peptones used in bacteriology. E. M. Chamot and F. R. Georgia. bibliog Am Water Works Assn J 13:661-74 Je '25

Hydrogen ion concentration of lime treated water and its effect on bacteria of the colon-typhoid group. R. D. Scott and G. M. McClure. Am Water Works Assn J 11:598-604 My '24

Investigation to ascertain the responsibility of iron-bacteria and other organisms for the formation of iron-incrustations in water-pipes. D: Ellis. Engineering 120:371-2 S 18 '25; Same. Can Eng 49:555-6 N 17 '25

Isolation of the colon group in water. N. J. Howard and R. E. Thompson. Can Eng 48: 413-17 Ap 21 '25; Same. Eng & Contr (W W) 64:597-606 S 9 '25

New differential test for members of the colon group of bacteria. S. A. Koser. bibliog Am Water Works Assn J 12:200-5 O '24

Quantitative studies of bacterial pollution and natural purification in the Ohio and the Illinois rivers. J. K. Hoskins. Am Soc C E Pro 51:1843-55 N '25

Review of water purification fundamentals. J. B. Marcellus. il Munic & Co Eng 68:243-5 My '25

Use of gentian violet broth on colon group of bacteria. J. J. Hinman, jr. Eng & Contr (W W) 62:367-8 Ag 13 '24

Voges-Proskauer reaction. C. S. Linton. Am Water Works Assn J 13:547-9 My '25

Color

Color and other phenomena of water from an unstripped reservoir in New England. C. M. Saville. N E Water Works Assn J 39: 145-63 Je '25; Abstract. Pub Works 56:276-7 Ag '25; Discussion. N E Water Works Assn J 39:163-70 Je '25

Purification of colored water at Wilmington, N. C. G: D. Norcom. diag map Am Water Works Assn J 11:96-116; Bibliography. 116-17 Ja '24

Deactivation and deaeration

Degasification of water. J. R. McDermet. Am Water Works Assn J 11:118-27 Ja '24

Hardness

Bleaching of wood pulp. C. E. Curran and P. K. Baird. diag Tech Assn Pa ser 7:65-8 Je '24; Same. Paper Tr J 79:41-3 Jl 17 '24

Relation of hardness in water supply to public health. E. S. Chase. Am Water Works Assn J 11:873-8; Discussion. 878-80 Jl '24

Water a dominating factor in the dyeing and cleaning industry. J. M. Matthews. Color Tr J 15:95-8 O '24

Water—a study of its use in the washroom. F. H. Guernsey. Color Tr J 15:51-4 Ag '24; Same. Am Dyestuff Rep 13:518-20+ Ag 11 '24

See also Water softening

Industrial uses

See Water supply for factories

Standards

Bacteriological standards. A. M. Buswell and R. A. Shive. Am Water Works Assn J 12: 358-9 N '24

Cincinnati water supply and the new U. S. P. H. S. standard. C. Bahlman. Am Water Works Assn J 14:260-6 S '25; Same. Eng & Contr (W W) 65:26-8 Ja 13 '26

Drinking water standards for U. S. Public health service. Eng & Contr (W W) 64:73-80 Jl 8 '25

Government requirements and professional standards. G: C. Whipple. Am Water Works Assn J 12:61-7 S '24

Sensitive detection of suspended matter and a proposed standard of clarity in filtered water. J: R. Baylis. diags Am Water Works Assn J 11:824-32 Jl '24; Same abr. Eng & Contr (W W) 62:369-71 Ag 13 '24; Abstract. Pub Works 55:309-10 O '24

See also Water—Bacteriology

Temperature

Lake waters for condensers. A. G. Christie. Mech Eng 47:809-10 O '25

Temperature of water available for industrial use in the United States. W. D. Collins. U S Geol S Water-supply Pa 520—F: 97-104, pl 8-11 '25; Abstract. Refrig Eng 12: 11-13 Jl '25

Testing

Testing and placarding roadside waters in Pennsylvania. E. L. Waterman and H. P. Drake. il Eng N 94:645-6 Ap 16 '25

WATER, Distilled

L'alimentation des générateurs avec de l'eau distillée par thermo-compresseur. diag Génie Civil 86:391 Ap 18 '25

Preparation of conductivity water. I: Bencowitz and H: T. Hotchkiss, jr. diag J Phys Chem 29:705-12 Je '25

Technic for measuring the hydrogen ion concentration of distilled water and unbuffered solutions not in equilibrium with carbon dioxide of the air. L: E. Dawson. J Phys Chem 29:551-6 My '25

WATER, Mine. See **Mine water**

WATER, Underground

Additional ground-water supplies for the city of Enid, Oklahoma. B. C. Renick. diag map U S Geol S Water-Supply Pa 520—B: 15-26 '24

California oil field waters. C. Palmer. Econ Geol 19:623-35 N '24

Chemical character of ground waters of the Northern Great Plains. H. B. Riffenburg. diags U S Geol S Water-supply Pa 560—B: 31-52 '25

Corn products co. water supply and underground pumps. il diags Eng N 93:501-3 S 25 '24

WATER, Underground—*Continued*
Ground-water engineering, by J. Schultze. Review, by J. Feld. Eng N 93:638-9 O 16 '24
Infiltration galleries at the Des Moines, Iowa, water works. C: B. Burdick. diags map N E Water Works Assn J 38:203-18, pl 1-2 S '24; Same, without tables. Eng & Contr (W W) 62:791-6 O 8 '24; Same cond. Pub Works 55: 331-3 N '24
Notes on ground waters. G. F. Loughlin. diag Econ Geol 19:62-71 Ja '24
Protecting the underground water supply of Kearney, Neb. H. H. Mole. Eng & Contr (W W) 63:762-4 Ap 10 '25
Protection of underground water. Engineer 139:512 My 8 '25
Sanitary control of ground water supplies. H. J. Darcey and others. Eng & Contr (W W) 64:381-8 Ag 12 '25; Excerpt. Pub Works 56: 366 O '25
Study of coastal ground water. J: S. Brown. il diags maps U S Geol S Water-supply Pa 537:1-101, pl 1-7 [bibliog. p. 84-97] '25
Subterranean stream piracy in the Ozarks. C. L. Dake and J. Bridge. maps Mo U Sch Mines & Met Bul tech ser 7:1-14, pl 1-8 N '23
Water-works improvements at Winner, South Dakota. G: T. Prince. Munic & Co Eng 67: 229-31 N '24; Same. Eng & Contr (W W) 62:1298-90 D 10 '24

See also Artesian wells; Geysers; Hot springs; Mine water; Wells

WATER aeration
Aeration of water at Fort Worth, Texas. W. S. Mahlie. il Am Water Works Assn J 13: 449-58 Ap '25
Function of aeration in water purification. M. Pirnie. Eng & Contr (W W) 61:573-6 Mr 12 '24; Same. Munic & Co Eng 67:22-5 Jl '24; Same cond. Pub Works 55:251-2 Ag '24
Home-made aerator; how oxygen deficiency in water supply of Charleston, S. C., was remedied. J. E. Gibson. Eng & Contr (W W) 63:100 Ja 14 '25
Water-works problems in a town of 1,000 people. H. P. Letton. il Eng N 94:652 Ap 16 '25

WATER baths. See Baths (chemical apparatus)

WATER closets
Better water closets. W. K. McAfee. il diags Dom Eng 113:18-21+ N 7 '25
Experience with flushometer water closets. Am Water Works Assn J 11:245-50; 12:312-15 Ja, N '24
Flush valve situation. R. C. Nason. diags Sanitary & Heat Eng 101:375-7 Je 13 '24; Discussion. A. W. Moseley. 102:109-10+ Ag 22 '24
More and better water closets. H. S. Maddock. diags Dom Eng 109:22-4 O 18 '24
Rate of discharge from water closets. Dom Eng 109:43 O 18 '24
Recommended minimum requirements for plumbing in dwellings and similar buildings. R. B. Hunter and L. W. Snyder. Sanitary & Heat Eng 102:402-5+ D 12 '24
Three ways to install flush valves. V. F. Davis. diags Dom Eng 107:32+ My 17 '24
Volume of water required with flushometers. il Sanitary & Heat Eng 101:197-9+, 234-7 Ap 4-18 '24

Ventilation

Ventilation of closet bowls. il diags Dom Eng 108:27-8 S 20 '24

WATER columns
A.R.A. report on standardization of water columns. Ry Age 78:1553 Je 20 '25; Ry R 76:1216-17 Je 27 '25; Ry Mech Eng 99:420-2 Jl '25
Compact cast steel water column. il Ry Mech Eng 99:625 O '25
Type EF water column for locomotives manufactured by Edna brass mfg. co. il Ry Age 78:1481 Je 13 '25
Valves in the water-column connections. Power 60:1071; 61:467 D 30 '24, Mr 24 '25
Water column conforming to recommended standards. Ry R 74:229-30 F 2 '24

WATER companies

Advertising

City water company adopts advertising as a permanent policy. Ptr Ink 126:72 Ja 17 '24
Possible source of income for smaller plants. H. A. Dill. Am Water Works Assn J 10:1011-13 N '23

Finance

Problems of the private water company. W. W. Colledge. Eng & Contr (W W) 60:1038-40 N 14 '23

See also Waterworks—Finance

Securities

Customer ownership plan for water companies. P. B. Niles. Eng & Contr (W W) 64: 106-9 Jl 8 '25

WATER conduits
Bursting of the Ritom Lake tunnel. Engineering 117:217 F 15 '24; Same. Eng & Contr (W W) 62:609 S 10 '24
Chimney or Devil's conduit of the Grey Friars monastery. il diags plan Engineer 138:658-60, 670 D 12 '24
Concrete pipe line and flume for factory waste water. diags Eng N 94:475 Mr 19 '25
Les conduites d'eau potable pour l'alimentation des villes de Flandre et du littoral belge. plan Génie Civil 85:259 S 20 '24
Fridley conduit of St Paul water works. J. W. Kelsey. Munic & Co Eng 69:70-3 Ag '25
Infiltration galleries at the Des Moines, Iowa, water works. C: B. Burdick. diags map N E Water Works Assn J 38:203-18, pl 1-2 S '24; Same, without tables. Eng & Contr (W W) 62:791-6 O 8 '24
Littleton reservoir of the Metropolitan water board; outlet conduits. il diags Engineering 119:690-3, 704 Je 5 '25
Manufacture of pipe for Spavinaw water project. il diags Eng N 92:899-902 My 22 '24
La pose d'une conduite d'eau potable dans le lac Léman, à Genève. diag Génie Civil 86: 389 Ap 18 '25
Principes et règles d'établissement des conduites hydrauliques forcées. diags Génie Civil 85:451-5 N 15 '24
Sources of supply, conduits and reservoirs, of the Rochester, N.Y., water-works system. J: F. Skinner. il N E Water Works Assn J 38:219-25 S '24
Spavinaw water supply project for Tulsa, Oklahoma. il map Eng N 92:816-18 My 8 '24
Tunnel expansion by hydraulic pressure. Eng & Contr (W W) 62:609 S 10 '24
Tuyaux en béton armé pour conduites forcées. E. Monteux. diags Génie Civil 85:374-7 O 25 '24

See also Aqueducts; Flumes; Siphons; Water pipes

Cost

First cost, durability and capacity basis of Washington conduit award. Eng N 94:402 Mr 5 '25

WATER consumption
Accounted for and unaccounted for water at Springfield, Mass. Eng & Contr (W W) 61: 1304 Je 11 '24
Consumption statistics from Haverhill, Mass., for year ending Nov. 30, 1924. Eng & Contr (W W) 64:68 Jl 8 '25
Distribution of water consumption in Springfield, Mass. Eng & Contr (W W) 62:73 Jl 9 '24
Effect of industrial uses of water on total consumption. J. W. Ackerman. chart Am Water Works Assn J 11:93-5 Ja '24
Meter installations and meter rates in Ohio. E. I. Roberts. Eng & Contr (W W) 60:1231-3 D 12 '23
Montreal used less water last year. Can Eng 48:260 F 24 '25
Reducing water waste in border cities. J. C. Keith. Can Eng 48:563-8 Je 9 '25
Toronto insufficiently metered. C. Bradshaw. Can Eng 48:619-21 Je 30 '25

WATER consumption—*Continued*

Water consumption at Moose Jaw. Can Eng 48:527 My 26 '25

Water consumption in British cities. Eng & Contr (W W) 62:586 S 10 '24

Water consumption in cities and towns; statistics for Massachusetts for year 1923. Eng & Contr (W W) 63:531-2 Mr 11 '25

Water consumption in large city buildings and sizing of water pipes to meet water demands. A. E. Hansen. Sanitary & Heat Eng 102:220-1 O 3 '24

Water consumption in London, England. Eng & Contr (W W) 62:583 S 10 '24

Water meters and consumption in Ohio. Pub Works 55:16 Ja '24

See also Water meters; Water waste

WATER cooling. See Cooling of water

WATER distribution

Computing head loss in gridiron distribution system. W. S. Pardoe. plan Eng N 93:516-17 S 25 '24

Effect of distribution system design upon fire insurance rates. L: Stocklmeir. Am Water Works Assn J 11:572-81 My '24

Experiences with large water tunnels in Chicago. A. E. Gorman. diags Am Water Works Assn J 14:175-89 S '25; Same. Eng & Contr (W W) 64:1055-64 N 11 '25

Experiences with small service pipes. J. E. Gibson. Munic & Co Eng 68:279-84 Je '25; Same. Eng & Contr (W W) 64:97-102 Jl 8 '25; Same. Can Eng 49:165-7 Jl 28 '25; Same. Am Water Works Assn J 14:295-305; Discussion. 305-8 O '25

Financing main pipe extensions by the assessment method. C. M. Saville. Eng & Contr (W W) 64:859-64 O 14 '25

Fire protection requirements in distribution system design. V. B. Siems and D. B. Biser. Am Water Works Assn J 11:17-37 Ja '24; Discussion. 12:186-90 O '24

Installation of check valves on water services. C. B. Jackson. Eng & Contr (W W) 61:100-2 Ja 9 '24

Kalispell waterworks notes; kalamein pipe in service 32 years. Pub Works 56:167-8 My '25

Modern views on service reservoirs and desirable pressures. A. C. Hutson. Munic & Co Eng 68:251-6 My '25; Excerpt. Eng N 94:772 My 7 '25; Excerpt. Eng & Contr (W W) 63:1256-8 Je 10 '25

Pressure in water mains; with statistical tables. Pub Works 55:159-60, 165-9 My '24

Relation of fire protection requirements to the distribution system of small towns. C. Goldsmith. diags Am Water Works Assn J 12: 168-78 O '24

Steamer connections (4½-inch) on supplies having high pressure, 75 pounds or over; are they necessary or reasonable? Am Water Works Assn J 11:225-33 Ja '24

Use of balancing reservoirs in water distribution systems. J. E. Phillips. Am Water Works Assn J 11:793-6 Jl '24; Same. Eng & Contr (W W) 62:581-3 S 10 '24

Various methods of making pipe connections. R. W. Angus. diags Can Eng 46:381-2 Ap 1 '24; Same. Eng & Contr (W W) 61:1082-4 My 14 '24

Vertical check valves used as air valves on supply mains. E. Carroll. diags Eng N 94: 859-60 My 21 '25

Water supply and distribution system of Washington, D.C. J: E. Wood. diag Eng & Contr (W W) 62:575-9 S 10 '24

Water works distribution systems. W. E. MacDonald. Can Eng 46:306-8+ Mr 4 '24; Same cond. Am Water Works Assn J 13:15-21 Ja '25; Excerpts. Eng & Contr (W W) 62:584-6 S 10 '24

Why not two water mains in wide streets? T: F. Wolfe. diags Eng N 95:332-3 Ag 27 '25; Discussion. 95:333-5, 522-3, 646-7 Ag 27, S 24, O 15 '25

See also Aqueducts; Hydraulics; Manholes; Pumping stations; Water conduits; Water pipes; Water towers; Waterworks

Cost

Cost of delivering water to the consumer at Oklahoma City, Okla. Eng & Contr (W W) 63:540 Mr 11 '25

Cross connections

Cross connections. Am Water Works Assn J 12:355-7 N '24

Cross connections. M. Maffitt. Am Water Works Assn J 11:856-9 Jl '24

Report of the committee on cross connections, of the North Carolina section. Am Water Works Assn J 14:14-16 Jl '25

Rules prohibiting cross-connections in state of Washington. Eng N 93:62-3 Jl 10 '24

Typhoid fever and cross-connections in Illinois. il diag Eng N 94:526-7 Mr 26 '25; Same. Sanitary & Heat Eng 103:291-2 My 1 '25

WATER flow

Analysis of the weir coefficient for suppressed weirs, by C: W: Harris. Review, by R. E. Horton. Eng N 93:470-1 S 18 '24

California pipe method of water measurement. B. R. Vanleer. Eng N 93:293 Ag 21 '24

Comparative test of the flow of water in 8-inch concrete and vitrified clay sewer pipe. E. R. Wilcox. Washington (state) U Eng Exp Sta Bul 27:1-42 '24

Computing head loss in gridiron distribution system. W. S. Pardoe. plan Eng N 93:516-17 S 25 '24

Control of storm-water flow to sewers in the City of The Hague, Holland. Eng N 93:722, 968 O 30, D 11 '24

Determining hydraulic gradient in Chicago water tunnels. diag Eng N 91:966 D 13 '23

Discharge of irrigation siphons in California. L. S. Hall. Eng N 93:1024-5 D 25 '24

Discharge through adjustable submerged orifices. H. A. Wadsworth. il diags Eng N 90: 308-9; 92:866-7 F 15 '23, My 15 '24

Der druckabfall in glatten rohren und die durchflussziffer von normaldüsen. M. Jakob and S. Erk. diags Zeit Ver Deutsch Ing 68: 581-4 My 31 '24

Effect of temperature upon the friction of water in pipes. F. E. Giesecke. Am Soc Heat & V E J 30:747-52 D '24; Abstract. Heat & Ven 22:71-3 F '25; Discussion. Am Soc Heat & V E J 31:208-9 Mr '25

Electrical measurement of physical value; abstracts. P. A. Borden. Am Inst E E J 44:363-5 Ap '25; Power Pl Eng 29:395-7 Ap 1 '25

Études sur modèles de barrages-déversoirs. C. Camichel, L. Escande and M. Ricaud. il diag Génie Civil 86:116-17 Ja 31 '25

Expériences sur la similitude hydrodynamique; application à l'établissement d'ouvrages hydrauliques et à l'aménagement des chutes d'eau. G. Camichel and L. Escande. il Génie Civil 86:60-3, 80-2 Ja 17-24 '25

Experimental investigation of the flow of water through rotating cellular wheel; abstract. H. Ortlei. Mech Eng 46:492-3 Ag '24

Flow of water in a corrugated pipe. A. H. Gibson. Philos Mag 6th ser 50:199-204 Jl '25

Flow of water in an inclined channel of rectangular section. H. Jeffreys. Philos Mag 6th ser 49:793-807 My '25

Flow of water in pipes. F. H. Morehead. Dom Eng 108:29 Jl 26 '24

Flow of water in pipes and channels. F. Heywood. Engineering 119:41-2 Ja 9 '25; Same. Eng & Contr (W W) 63:289-90 F 11 '25

Flow of water in short pipes. O. W. Boston. diags Chem & Met Eng 30:56-9 Ja 14 '24

Flow of water in Tulsa 60-in. and 54-in. concrete pipe line. F. C. Scobey. il Eng N 94: 894-7 My 28 '25; Discussion. 94:1070 Je 25 '25

Flow of water through pipe culverts. D. L. Yarnell, S. S. Woodward and F. A. Nagler. il diags Pub Roads 5:19-33 Mr '24; Conclusions. Munic & Co Eng 66:264-6 Je '24

Flow of water through sluices and scale models. H. E. Hurst and D. A. F. Watt. Eng & Contr (W W) 61:784-5 Ap 9 '24

Flow through concrete and other culvert pipes. C. E. DeLeuw. Concrete 24:21 Ja '24

WATER flow—*Continued*
Fluid friction and heat transference. T: B. Morley. Engineer 137:596-7 My 30 '24; Discussion. G: T. Pardoe. 137:628 Je 6 '24
Gibson method and apparatus for measuring the flow of water in closed conduits. N. R. Gibson. il diags plan Mech Eng 45:679-84 D '23; Abstract. Power 58:1020-1 D 25 '23
Das Gibsonsche wassermessverfahren. K. Pantell. diag Zeit Ver Deutsch Ing 68:366-7 Ap 12 '24
Heat transfer for water flowing inside pipes. W. H. McAdams and T. H. Frost. Refrig Eng 10:323-32 Mr '24; Abstract. Chem & Met Eng 30:234-7 F 11 '24; Discussion. Refrig Eng 10:332-4 Mr '24
Hydraulic tests of flap valves on drainage pipe outlets. F. A. Nagler. il Eng N 91:1052-3 D 27 '23
Loss of head in closely baffled mixing basin. C. W. Smedberg. diags plan Eng N 94:476 Mr 19 '25
Losses of head in bends and branches. A. Bouchayer. Engineering 120:241 Ag 21 '25
Measurement of pipe flow by the coördinate method. F. W. Greve and M. J. Zucrow. diags Am Water Works Assn J 13:306-11 Mr '25; Discussion. M. F. Stein. 14:68-70 Jl '25
Measurement of water discharge. il Dom Eng 111:19 My 9 '25
Measuring velocity of water with Pitot tube. diags Power 60:913 D 2 '24
Measuring water flow in conduits; multiple pitot and piezometer tubes used. D. W. Proebstel. il diags Elec W 85:711-12 Ap 4 '25
Measuring water with salt and electricity. C. M. Allen. Eng & Contr (W W) 60:1230 D 12 '23
Methods of making flow tests and their value to water works engineers. G. W. Booth. il Am Water Works Assn J 12:157-67 O '24; Same. Eng & Contr (W W) 62:1079-85 N 12 '24
Model shows actual flow of water. il diag Power 59:622 Ap 15 '24
New formula for flow of water in clean cast-iron pipe. E: Wegmann and A. N. Aeryns. diag Eng N 95:100-2 Jl 16 '25
New logarithmic equation for friction losses in pipes. F. W. Greve. Eng N 91:605 O 11 '23; Discussion. 92:374, 501 F 28, Mr 20 '24
New tables for computing loss of head in pipes. J. O. Jones. Eng N 94:240-2 F 5 '25
New tests of loss of head in 2-in. black wrought-iron pipe. L. Perry. Eng N 94: 272-3 F 12 '25; Same. Sanitary & Heat Eng 103:323+ My 15 '25
New theories of flow in pipes. K: R. Kennison. Boston Soc C E J 12:357-8 O '25
New theory of fluid flow. A. B. Cox. J Fr Inst 198:769-93 [bibliog. p. 792-3] D '24; Abstract. Mech Eng 47:205-6 Mr '25
Nine charts for flow of water in channels. G: Higgins. charts Eng & Contr (W W) 64: 607-13 S 9 '25
Open channel chart. Sibley J 39:297 Mr '25
Open-end flume water meter based on exponential equation. J. W. Ledoux. diags Eng N 93:505-6 S 25 '24
Permissible canal velocities. S. Fortier and F. C. Scobey. Am Soc C E Pro 51:1397-1413 S '25; Discussion. 51:2035-40; 52:111-17 D '25-Ja '26
Practical applications of hydraulic principles. R. T. Livingston. diags Power Pl Eng 29:189-90 F 1 '25
Recommended minimum requirements for plumbing in dwellings and similar buildings. R. B. Hunter and L. W. Snyder. Sanitary & Heat Eng 104:208-9+ O 2 '25
Reduction of velocity in measurements of water flow; abstract. W. Reitz. Mech Eng 47:582 Jl '25
Reynolds' formula for flow of water in pipes. R. W. Powell. Eng N 94:494 Mr 19 '25
Salt velocity method of water measurement. C: M. Allen and E. A. Taylor. il Mech Eng 46:13-16+ Ja '24; Same. Can Eng 49:195-8 Ag 4 '25; Abstracts. Elec W 83:142-4 Ja 19 '24; J Elec 52:8 Ja 1 '24; Power 59:683-6 Ap 29 '24; Discussion. Mech Eng 46:51 Ja '24
Salt-velocity stream-flow measurements. G: M. Will. Elec W 83:1285 Je 21 '24
Sedimentation of turbid river water. W. Kiersted. Eng & Contr (W W) 63:1268-74 Je 10 '25; Same abr. (Principles of four kinds of flow in settling basins). Eng N 93:346-7 Ag 28 '24
Simple method of measuring the flow of liquids. E. M. Jones. Chem & Met Eng 30: 828 My 26 '24
Simultaneous flow of water and air in pipes. L. S. O'Bannon. diag charts Am Soc Heat & V E J 30:225-33 Mr '24; Abstract. Mech Eng 46:421-2 Jl '24; Discussion. Am Soc Heat & V E J 30:233-4 Mr '24
Strömungswiderstand in rauhen rohren und gerinnen. Zeit Ver Deutsch Ing 68:401 Ap 19 '24
Tests made on largest hydraulic turbine at Holtwood. R. E. Turner. diags Power 62: 608-10 O 20 '25
Tests of loss of head in standard elbows and tees. L. Perry. Eng N 92:940 My 29 '24
Velocity of discharge through venturi tube. C: G. Richardson. diags Power 58:857-8 N 27 '23
Velocity of flow in pipes. E. Crewdson. Engineer 136:635-6 D 14 '23; Same cond. Chem & Met Eng 30:59-60 Ja 14 '24; Abstract. Mech Eng 46:152-3 Mr '24
Die wasserbewegung beim betriebe von kammerschleusen. B. Schumacher. diags Zeit Ver Deutsch Ing 68:803-8 Ag 2 '24
Water discharged by pipe line with gate valve wide open. diag Power 60:1077 D 30 '24
Water heating; figuring friction heads. diag Heat & Ven 20:79-81 D '23
Weir flow; abstract. D. Smith and W: J. Walker. diag Mech Eng 45:706 D '23
Well flow measured by pitometer checked by orifice. J: N. Brooks. Eng N 95:683-4 O 22 '25
What a charge of salt solution looks like after traveling 18,000 feet in a pipe line. E. A. Taylor. Power 60:244-5 Ag 12 '24

See also Hydraulics; Intakes; Stream flow; Surge tanks; Turbines; Venturi meters; Water gages; Water meters; Weirs

WATER gages
Autographic hydraulic volume gage. diag Eng N 93:913 D 4 '24
Bristol-Derr recording water level gage. il Power Pl Eng 29:924-5 S 1 '25
Electrically-operated gages devised for filters. H. N. Jenks. il diags Eng N 95:346-8 Ag 27 '25
Float and bell device for indicating level of water in tank. A. J. Dixon. diag Ind Eng 82:149 Mr '24
Foxboro boiler level gage. il Power 62:347 S 1 '25
Glassless gage glass. il Power 61:455, 840-1 Mr 24, My 26 '25
Gurley graphic water level recorder has wide range of use. il Eng N 95:80 Jl 9 '25
Illumination of gage glasses. L. R. Gray. diags plan Power Pl Eng 29:1045-7 O 15 '25
Keeping gages from freezing. N. C. Potosky. Power 61:102 Ja 20 '25
Limit switches and water-level indicator. F. Huskinson. diags Power 61:185-6 F 3 '25
Long range water level indicator. C. W. Geiger. il Power Pl Eng 28:345-6 Mr 15 '24
Low- and high-water alarms for steam boilers. W. H. Wakeman. Power 62:104 Jl 21 '25
Net head indicator for waterwheel. E. J. del Vecchio. diag Power 59:614 Ap 15 '24
New level indicator. il diags Engineer 138: 647 D 5 '24
Republic water level indicator and control. diag Eng & Contr (Equip R) 64:761 S 30 '25
Sanborn water-level recorder. il Eng & Contr (Equip R) 62:967 O 29 '24

WATER gages—*Continued*
Tailwater gage indicates range of elevations. il diag Elec W 84:322 Ag 16 '24
Wulf water gage safety valves open automatically. il Power Pl Eng 29:774-5 Jl 15 '25

Testing

Testing of high-pressure boiler tubular gage glasses. T. G. O'Niell. diag Power 62:650 O 27 '25

WATER gas. See Gas, Water

WATER glass. See Sodium silicate

WATER hammer
Automatic valve control device eliminates water hammer. diags Sanitary & Heat Eng 104:145 S 4 '25
Cause and cure of water hammer. il Dom Eng 109:30+ D 13 '24
Eliminating water hammer from a high-pressure regulating valve. S. L. Ruggles. diags N E Water Works Assn J 37:402-5 D '23; Same abr. Eng & Contr (W W) 61:81-2 Ja 9 '24
Fall in pressure in hydraulic turbine penstocks due to acceleration of flow. S. L. Kerr. charts Power 60:266-8 Ag 12 '24
How the water hammer in the exhaust header was eliminated. diag Power 62:21, 182, 539 Jl 7, Ag 4, O 6 '25
Poor receiver piping causes water hammer. C: Magnus. diag Power Pl Eng 29:255-6 F 15 '25
Severe water hammer causes break of Big Creek no. 8 penstock. Eng N 92:399 Mr 6 '24; Same. Power 59:414 Mr 11 '24
Water hammer—its causes, its cure. F. W. Greve. diags Sanitary & Heat Eng 103:402-4 Je 12 '25
Water hammer; the cause and the cure. S. L. Cleverdon. diag Sanitary & Heat Eng 103: 38-9 Ja 23 '25
Wave-actuated water hammer splits 36-in. sewer outlet at Paducah, Ky. Eng N 95: 629 O 15 '25

WATER heaters
Marketing indirect heaters. E. S. Stack. Sanitary & Heat Eng 100:325-6 N 16 '23

See also Electric water heaters; Feed water heaters; Gas water heaters; Hot water supply; Steam water heaters

Advertising

Pittsburg water heater combines humorous and historical copy. R. Davis. Ptr Ink 126: 98-100 F 28 '24

WATER heating

See Feed water heating; Hot water heating; Hot water supply; Water heaters

WATER laws and legislation
Ohio stream pollution law amended to give increased control. Eng N 94:696 Ap 23 '25
Protection of underground water. Engineer 139:512 My 8 '25
Sanitation on the Catskill watersheds. T. Merriman. Am Water Works Assn J 13:11-14 Ja '25; Same. Eng & Contr (W W) 61:1317-18 Je 11 '24
State and national duty in conservation of water resources; a new stream policy; government planning and control of water storage. C. E. Grunsky. Eng N 92:11-12 Ja 3 '24
Water laws of the state of Oregon. 75p Oregon State printing dept., Salem '24
Wisconsin Supreme court enjoins stream pollution. W: R. Copeland. Eng N 95:390-1 S 3 '25

See also Drainage laws; Irrigation laws; Water—Standards; Water rights; Waterworks—Laws and regulations

WATER level, Maintenance of. See Baths (chemical apparatus); Water gages

WATER lifts
Deep well water elevator. il diag Engineer 138:506 O 31 '24; Same. Eng & Contr (W W) 63:549-50 Mr 11 '25

WATER mains. See Water pipes

WATER marks. See Watermarks

WATER measurement
Discharge measurements for the control section weir. J. L. Savage. il diag Eng N 92: 842 My 15 '24
How to measure white water losses. V. P. Edwardes. diags Paper Tr J 80:46-9 Ap 30 '25
Measuring the feed water in a boiler test. J. W. Gavett, jr. diags Power 59:567-8 Ap 8 '24
Water-measurement session at the A. S. M. E. meeting. Power 58:943 D 11 '23
Water measuring devices. R. L. Daugherty. Am Water Works Assn J 11:808-18 Jl '24

See also Pitot tube; Stream measurement; Venturi flumes; Venturi meter; Water flow; Water gages; Water meters; Weirs

WATER meters
Calibrating feed-water meters in the small power plant. A. F. Graves. diag Power 62: 537 O 6 '25
Changing meters; practice of water works of Savannah, Ga. J: G. Valentino. Eng & Contr (W W) 62:371-2 Ag 13 '24
Does 100 per cent metering of small town water supplies pay? F. V. Fields. Am Water Works Assn J 14:147-8 Ag '25; Same. Eng N 95:589 O 8 '25; Same. Munic & Co Eng 67:218 N '24; Same. Pub Works 55:373-4 D '24
Effect of meters at Cleburne, Texas. diag Eng & Contr (W W) 64:868 O 14 '25
Helpful tools in removing meters. Am Water Works Assn J 12:316-19 N '24
Improved water supply for Chicago and the relation of metering to service. J: Ericson. W Soc E J 29:371-8 O '24; Excerpts. Eng & Contr (W W) 63:1292-5; Discussion. M. E. Adams. 1295-6 Je 10 '25
Improvements to V-notch meter. il. diags Power Pl Eng 29:566-7 My 15 '25
Meter installations and meter rates in Ohio. E. I. Roberts. Eng & Contr (W W) 60:1231-3 D 12 '23
Metering the water supply of the city of Chicago. H: A. Allen. il charts map W Soc E J 29:379-400 O '24; Same cond. Eng & Contr (W W) 63:517-25, 751-60 Mr 11, Ap 10 '25; Discussion. W Soc E J 29:400-4 O '24
Meters save water in London, Ont. E. V. Buchanan. Can Eng 47:403 O 7 '24; Same. Eng & Contr (W W) 62:1087-8 N 12 '24
Quarterly or monthly reading of meters; advantages and disadvantages. J. E. Gibson. Eng & Contr (W W) 60:1256-60 D 12 '23
Reducing water waste in border cities. J. C. Keith. Can Eng 48:563-8 Je 9 '25
Report on universal metering for the city of Chicago. D. H. Maury and Gordon. diags Eng & Contr (W W) 64:343-53, 567-74 Ag 12, S 9 '25
Resetting meters and meter location records. Am Water Works Assn J 12:328-30 N '24
Setting of water meters. J: L. Ford. il diag Eng & Contr (W W) 64:361-3 Ag 12 '25
Toronto insufficiently metered. C. Bradshaw. Can Eng 48:619-21 Je 30 '25
Two principal types of water meters and their uses. il Dun's Int R 46:57-8 S '25
Water meter of the Imperial type. diags Power Pl Eng 29:203-4 F 1 '25
Water meter ordinance for city of Chicago. Eng N 95:443 S 10 '25
Water metering program for Chicago proposed. Eng N 94:1033 Je 18 '25
Water meters and consumption in Ohio. Pub Works 55:16 Ja '24
Water supply problem in relation to the future Chicago; plan to build combined filter plants and recreation piers. J: Ericson. il diags plan W Soc E J 30:125-39; Discussion. 139-41 Ap '25
What meters have done for Evansville. C: Streithof. Prof Eng 10:8-9 Jl '25; Same, without tables. Pub Serv Management 38: 146-7 My '25

WATER meters—*Continued*
Where there are several families using water through one meter, how may collections be divided? Am Water Works Assn J 11:175-6 Ja '24

See also Pitometer; Pitot tube; Venturi meter; Water gages; Water waste

Repair

Meter shop methods. A. P. Lovell. Am Water Works Assn J 13:312-13 Mr '25; Same. Eng & Contr (W W) 63:1074 My 13 '25; Same. Pub Works 56:159-60 My '25
Who pays cost of meter repairs when damaged by hot water? Am Water Works Assn J 11:234-5 Ja '24

Standards

Standardization of water meter registers. N E Water Works Assn J 37:424-7 D '23

Testing

Hydraulic laboratory and field tests of indicating totalizing meter. W. S. Pardoe. il diag Eng N 92:868-9 My 15 '24
Open-end flume water meter based on exponential equation. J. W. Ledoux. diags Eng N 93:505-6 S 25 '24

WATER pipes
Action of water on service pipes. W. Donaldson. Am Water Works Assn J 11:649-62 [bibliog. p. 661-2] My '24; Excerpts. Eng & Contr (W W) 62:101-4 Jl 9 '24; Discussion. Am Water Works Assn J 11:916-18; 12:417-27 Jl, D '24
Additional city pipe conduits of the Catskill aqueduct. W. E. Spear. il map Eng N 92: 838-41 My 15 '24
Average depth of water mains in various cities. Eng & Contr (W W) 61:1271 Je 11 '24
Cast-iron service pipe. J. R. McWane. N E Water Works Assn J 38:79-83 Mr '24
Construction of a 9-ft. pipe line six miles long. il Eng N 91:1067 D 27 '23
Cost of welding water mains. il Eng & Min J 120:697-8 O 31 '25
Development and manufacture of the modern cement lined service pipe. R. J. Newson. Am Water Works Assn J 13:145-9 F '25; Same. Can Eng 47:283-4 Ag 26 '24; Excerpt. Eng & Contr (W W) 61:1296 Je 11 '24
Experiences with small service pipes. J. E. Gibson. Munic & Co Eng 68:279-84 Je '25; Same. Eng & Contr (W W) 64:97-102 Jl 8 '25; Same. Can Eng 49:165-7 Jl 28 '25; Same. Am Water Works Assn J 14:295-305; Discussion. 305-8 O '25
Large supply mains; with cost tables. D. H. Maury. il diags Am Water Works Assn J 12: 1-41 S '24; Excerpts. Can Eng 47:359-62 S 23 '24; Abstract. Eng N 92:1052-4 Je 19 '24; Discussion. Am Water Works Assn J 12: 41-60 S '24
Laying large water main through swamps in New Orleans. J: T. Eastwood. il diags Eng N 92:854-6 My 15 '24
Laying of cast iron water mains. H. H. Baughman. Eng & Contr (W W) 63:743-5 Ap 10 '25
Laying water mains or services in trenches with sewer pipe. Am Water Works Assn J 11:255-6 Ja '24
Making house service connections in water main. W. W. Monk. il diags Eng N 93:1046 D 25 '24
Pipe chart. Sibley J 39:296 Mr '25
Pipe lines for the Tansa completion works. Engineer 137:302-3 Mr 21 '24
Pipe lines of the Moncenisio hydro-electric plant. S. L. R. Hollis. il diags plan Engineer 137:692-4 Je 20 '24
Tests on holding power of lead joints in water-pipe plugs. J: H. Quense. il diags Eng N 92: 867-8 My 15 '24; Discussion. S. P. Baird. 92: 1112 Je 26 '24
Types of pipe for water main construction. S. B. Morris. Am Water Works Assn J 11:564-71 My '24
Use of burned clay, concrete and wood pipe for irrigation. R. K. Tiffany. il Eng N 95: 419 S 10 '25
Various methods of making pipe connections. R. W. Angus. diags Can Eng 46:381-2 Ap 1 '24; Same. Eng & Contr (W W) 61:1082-4 My 14 '24
Vitrified pipe for small water supplies. Eng N 94:330, 451 F 19, Mr 12 '25
Water consumption in large city buildings and sizing of water pipes to meet water demands. A. E. Hansen. Sanitary & Heat Eng 102:220-1 O 3 '24
Water services in Atchison. E. E. Hellener. diags Pub Works 56:51-2 F '25; Same. Eng & Contr (W W) 64:121 Jl 8 '25
Why not two water mains in wide streets? T: F. Wolfe. diags Eng N 95:332-3 Ag 27 '25; Discussion. 95:333-5, 522-3, 646-7 Ag 27, S 24, O 15 '25

See also Aqueducts; Hot water heating; Hot water supply; Penstocks; Pipe fittings; Pipe joints; Pipe laying; Pipes; Siphons; Water conduits; Water distribution; Water flow; Water hammer; Water waste; Waterworks

Cleaning

Cleaning apparatus for water mains at the British Empire exhibition. il diags Engineering 117:587 My 2 '24
Cleaning of cast iron water pipe lines. C: Haydock. Am Water Works Assn J 11:533-41 My '24; Excerpt. Eng & Contr (W W) 61:1310-13 Je 11 '24
Cleaning railway water mains yields large returns. C: Haydock. Eng & Contr (Ry) 63: 573-9 Mr 18 '25
Cleaning submerged cast iron main. il Eng & Contr (W W) 63:552-3 Mr 11 '25
Cleaning water mains in New Albany. Pub Works 56:56-7 F '25
Internal cleaning of water supply pipes. Electrician 95:123 Jl 31 '25
Methods and costs of cleaning incrusted water supply pipes. E. M. Grime. diags Eng & Contr (Ry) 61:427-9 F 20 '24
Motor operated service pipe cleaner. il Eng & Contr (W W) 64:123 Jl 8 '25
Results of cleaning water mains at New Albany, Ind. J. O. Endries. Eng & Contr (W W) 61:793-6 Ap 9 '24; Same. Munic & Co Eng 66:271-4 Je '24; Same. Can Eng 47:455-6 O 28 '24
Some results of pipe cleaning. B. B. Hodgman. N E Water Works Assn J 39:171-3 Je '25; Same. Eng & Contr (W W) 64:355-7 Ag 12 '25

Corrosion

Corrosion problem in connection with water works engineering. F. N. Speller. diags N E Water Works Assn J 39:90-100 Mr '25; Same. Eng & Contr (W W) 64:110-16 Jl 8 '25
Film protection as a factor in corrosion. F. N. Speller. Am Electrochem Soc Trans v 46 (preprint 22):313-25 O '24; Same. Chem Age 32:457-9 N '24
New way to combat rusty water and excessive corrosion; the Star Dee rust preventor. il diags Sanitary & Heat Eng 103:161-2 Mr 6 '25
Recherches concernant les causes de la corrosion des tuyaux en plomb doublé d'étain. Génie Civil 86:412-13 Ap 25 '25
Some notes on electrolysis of water pipes. W. S. Coulter. Eng & Contr (W W) 63:747-50 Ap 10 '25
Stray earth currents increased by salt. C: F. Meyerherm. il diag Elec Ry J 65:881-3 Je 6 '25
Use of soda ash for preventing corrosion. M. C. Whipple. Eng & Contr (W W) 62:1065-6 N 12 '24; Same. Am Water Works Assn J 12:241-3 O '24

See also Water pipes—Protection

Cost

Cost of laying water mains at Oklahoma City, Okla. Eng & Contr (W W) 63:514 Mr 11 '25

WATER pipes—Cost—*Continued*
Costs of water supply mains of four different materials. D. H. Maury. Am Water Works Assn J 12:23-31 S '24; Eng N 92:1052-4 Je 19 '24
Method for the economic design of penstocks. H. L. Doolittle. Mech Eng 46:785-9; Discussion. 789-92 pt 2 N '24

Deposits
Investigation to ascertain the responsibility of iron-bacteria and other organisms for the formation of iron-incrustations in water-pipes. D: Ellis. Engineering 120:371-2 S 18 '25; Same. Can Eng 49:555-6 N 17 '25; Same abr. Eng & Contr (W W) 65:50-1 Ja 13 '26

Failures
Causes of breaks of cast iron water mains. V. B. Siems. Eng & Contr (W W) 63:528-30 Mr 11 '25; Same. Pub Works 56:115-16 Ap '25
Water main breaks at congested corner of Fifth Avenue, N.Y. city. il Eng N 95:463 S 17 '25
Water pipe line failures. C. Wight. Am Water Works Assn J 14:322-4 O '25
Why water mains burst. Eng N 95:340 Ag 27 '25

Freezing
Protecting water mains against frost. G: H. Finneran and others. Pub Works 56:288-90 Ag '25; Same. Can Eng 49:432-3 O 6 '25

Leakage
Geophone in the water works department. D. R. Taylor. Eng & Contr (W W) 62:59-60 Jl 9 '24
Leakage and unaccounted for water. J. N. Chester and E. E. Bankson. diags Am Water Works Assn J 11:381-8 Mr '24; Excerpt. Eng & Contr (W W) 61:805-7 Ap 9 '24; Discussion. Am Water Works Assn J 11:388-92 Mr '24
Leakage and waste. tables Pub Works 56: 131-2, 140-9, 223-5 Ap, Je '25
Locating leaks. Am Water Works Assn J 12: 323-7 N '24
Locating leaks in underground pipe lines with the geophone. il diags Heat & Ven 20:50-1 N '23
Methods for detecting underground leakage. Eng & Contr (W W) 60:1269-70 D 12 '23
Underground water waste detection in New York city. F. B. Nelson. Eng & Contr (W W) 61:1289-96 Je 11 '24

Protection
External protection for steel water pipe at Shanghai, China. W. W. Monk. il Eng N 94:159-60 Ja 22 '25
Protection of exposed water pipes and appurtenances. G: H. Finneran. Eng & Contr (W W) 63:1052-7 My 13 '25; Same, with discussion by S. E. Killam and others. N E Water Works Assn J 39:174-83 Je '25
Removing and preventing rust in penstocks. G: H. Bragg. Elec W 83:239-40 F 2 '24; Same cond. Eng N 92:163 Ja 24 '24
See also Water pipes—Freezing

Repair
Brazing cracks in 30-in. cast-iron water pipe. il Eng N 93:148 Jl 24 '24
Cutting large size cast iron pipe. W. M. Rapp. diags Am Water Works Assn J 13: 25-7 Ja '25
Emergency repair of a cast iron pipe. il Sanitary & Heat Eng 104:181+ S 18 '25
Quick repair of main by welding. J. J. Bruton. il Eng & Contr (W W) 63:1253-4 Je 10 '25
Repairing broken pipe in creek crossing. il Eng N 92:1025-6 Je 12 '24
Repairing large water main in place by welding. Eng & Contr (W W) 61:76 Ja 9 '24
See also Water pipes, Steel—Repair; Water pipes, Wood—Repair

Tables, calculations, etc.
Effective area of water pipes. J. N. McDonald. il Bldg Age 47:106-7 Jl '25
New formula for flow of water in clean cast-iron pipe. E: Wegmann and A. N. Aeryns. diag Eng N 95:100-2 Jl 16 '25
New logarithmic equation for friction losses in pipes. F. W. Greve. Eng N 91:605 O 11 '23; Discussion. 92:374, 501 F 28, Mr 20 '24
Sizes of water supply piping. A. M. Strauss. Sanitary & Heat Eng 103:247-8 Ap 17 '25
Water pipe sizes for plumbing fixtures, branches and mains. W. S. Timmis. Am Inst Arch J 12:299-300, 341-2 Je-Jl '24
Water supply pipe sizes. Bldg Age 47:158 Ja '25; Excerpt. Am Arch 127:557-8 Je 17 '25

Testing
Flow of water through pipe culverts. D. L. Yarnell, S. S. Woodward and F. A. Nagler. il diags Pub Roads 5:19-33 Mr '24; Conclusions. Munic & Co Eng 66:264-6 Je '24
New tests of loss of head in 2-in. black wrought-iron pipe. L. Perry. Eng N 94:272-3 F 12 '25; Same. Sanitary & Heat Eng 103: 323+ My 15 '25
Tests of leakage, friction and discharge in Norfolk supply main. W. H. Taylor and N. Z. Ball. Eng N 94:446 Mr 12 '25
See also Water pipes, Steel—Testing

Thawing
See Thawing, Electric

Transportation
Seasonal delivery of water works material to avoid freight congestion. Am Water Works Assn J 12:305-6 N '24

WATER pipes, Brass
Brass and copper for water service and plumbing pipe. W: G. Schneider. Am Water Works Assn J 14:81-7; Discussion. 87-106 Ag '25; Abstracts. Eng N 94:570-1 Ap 2 '25; Pub Works 56:162 My '25
Brass services and special goosenecks used by Hackensack water co. D. W. French. diags Eng N 94:653-4 Ap 16 '25
Use of brass pipe for services. N E Water Works Assn J 37:428-32 D '23

WATER pipes, Concrete
Denver's new water supply conduit. il diags Pub Works 56:271-5 Ag '25
Flow of water in Tulsa 60-in. and 54-in. concrete pipe line. F. C. Scobey. il Eng N 94: 894-7 My 28 '25; Discussion. 94:1070 Je 25 '25
Grand River crossing—Spavinaw water-supply conduit. W. R. Holway. il diags Eng N 95:168-71 Jl 30 '25
Pre-moulded reinforced concrete pipe. W. G. Chace. il diag Can Eng 46:416-17 Ap 8 '24; Same. Am Water Works Assn J 13:22-4 Ja '25
Reinforced concrete pipe for water supply lines under pressure. F. F. Longley. il diags N E Water Works Assn J 38:257-86 S '24; Excerpt. Eng & Contr (W W) 62:1071-6 N 12 '24

Manufacture
Centrifugally-cast reinforced-concrete water pipe. W. G. Chace. il diags Can Eng 45:489-91 N 13 '23
Manufacture of pipe for Spavinaw water project. il diags Eng N 92:899-902 My 22 '24

WATER pipes, Copper
Copper service pipe. W. Twaits. Am Water Works Assn J 14:253-4 S '25; Same. Eng & Contr (W W) 65:40 Ja 13 '26; Same, with discussion. Can Eng 48:299+ Mr 10 '25

WATER pipes, Steel
Depreciation on slip-joint protected steel pipe. E. C. Eaton. Eng N 95:603-4 O 8 '25
Duplicate steel pipe lines for Bombay. il Eng N 93:905 D 4 '24
Effect of alkaline solutions on the corrosion of steel immersed in water. F. N. Speller and C. R. Texter. diag Ind & Eng Chem 16:393-7 Ap '24

WATER pipes, Steel—*Continued*
Electrically-welded steel pipe line for Vallejo water-works. Eng N 94:654-5 Ap 16 '25
Hetch Hetchy Bay crossing division. il Pub Works 56:371-4 O '25
Pipe line from Lake Tansa for the Bombay water supply. Engineering 118:550, 562+ O 17 '24
Unique emergency supply line; pipe welded in advance to fit underwater profile. il Eng & Contr (W W) 64:857-8 O 14 '25

Failures

High-head penstock failure found due to bad steel. diag Eng N 92:367-8 F 28 '24; Same. Power 59:373-4 Mr 4 '24

Repair

Patch on 20-in. steel pipe bolted entirely from the outside. W. W. Monk. diag Eng N 92: 864 My 15 '24
Repairing split pipe line by welding. Eng & Contr (R & S) 64:795 O 7 '25

Testing

Testing large steel pipe. F. Johnstone-Taylor. diags Can Eng 46:520 My 13 '24; Same. Eng & Contr (W W) 62:811-12 O 8 '24

WATER pipes, Wood
Construction of wood stave pipe line. J. B. Holdcroft. il Can Eng 49:101-2 Jl 7 '25
Design as a factor in the upkeep of wood-stave pipes. B. E. White. il diags Power 61:139-42 Ja 27 '25; Same. Eng & Contr (W W) 63:535-40 Mr 11 '25
Improper backfill causes failure of wood-stave pipe lines. B. E. White. il Power 60: 1019-20 D 23 '24
Life and strength of wood stave pipe. Eng & Contr (W W) 62:558 S 10 '24
Pipe break undermines settling basin wall at Fort Collins, Colo. Eng N 93:233 Ag 7 '24
Reconditioning wood stave pipe line. J. B. Holdcroft. il Can Eng 46:447-9 Ap 22 '24
Wood stave pipe. diags Engineer 139:400-1 Ap 10 '25
Wood stave pipe lines and penstocks. J. B. Holdcroft. il Can Eng 47:149-51 Jl 15 '24

Repair

Maintenance of wood-stave pipe in hydro-electric practice. B. E. White. il Power 60: 794-6 N 18 '24

WATER pollution
Control of oil pollution in Rhode Island. S. D. Gage. il map Boston Soc C E J 11:237-74; Discussion. 274-80 Je '24
Control of stream pollution. C: F. Dalton. Munic Eng 65:233-6 N '23
Court decision protects water supply against mine drainage. A. L. Fales. Munic & Co Eng 68:276-7 Je '25
Dust contamination of water supply. R. G. Upton. Eng & Contr (W W) 64:389-90 Ag 12 '25
Engineer and the public health. F. A. Dallyn. Can Eng 47:583-8 [bibliog. p. 588] D 9 '24
Experiences with large water tunnels in Chicago. A. E. Gorman. diags Am Water Works Assn J 14:175-89 S '25; Same. Eng & Contr (W W) 64:1055-64 N 11 '25
Foul tastes in Cleveland water again caused by phenol. J. W. Ellms. Eng N 92:453 Mr 13 '24
How long shall we poison our water supplies? Dom Eng 111:22-3 My 23 '25
Important stream pollution decision in Pennsylvania. Paper Tr J 79:43-4 N 13 '24
Industrial wastes and water supplies. Can Eng 45:529-31 N 27 '23
Locating water-borne typhoid infection at Brenham, Texas. G: W. Colles. diag Eng N 92:947 My 29 '24
Melcroft coal company case. Am Water Works Assn J 13:675-7 Je '25; Same. Eng & Contr (W W) 64:71-2 Jl 8 '25
Methods and policies of preventing stream pollution. H. V. Pederson. Munic & Co Eng 68:132-5 Mr '25
Objectives in sewage treatment. J. J. Hinman, jr. Munic & Co Eng 68:167-72 Ap '25
Ohio stream pollution law amended to give increased control. Eng N 94:696 Ap 23 '25
Paint causes taste, odor and troubles. W. S. Mahile. Eng & Contr (W W) 62:1089 N 12 '24
Pennsylvania water supplies protected against coal mine wastes. Eng N 94:901 My 28 '25
Phenol tastes in the water supply of Marquette, Mich. P. Hansen. Eng N 95:469 S 17 '25
Place responsibility of epidemics on city officials. H. F. Ferguson. il Nation's Health 7: 396-8 Je '25
Pollution and natural purification in the Ohio river. R. Suter. Am Water Works Assn J 13:314-22 Mr '25
Pollution of navigable waters. 300p U.S. Congress. House. Com. on rivers and harbors, Washington, D.C. '24
Pollution of Ohio streams. H: Bohn. Dom Eng 111:29-30 Je 20 '25
Pollution of streams by pulp-mill wastes. G: C. Whipple. Paper Tr J 79:46-9 S 18 '24
Pollution of Wisconsin waters. F. R. King. il map Dom Eng 113:16-18+ O 10 '25
Progress report on agencies for the control of pollution by industrial wastes. Am Water Works Assn J 11:628-48 My '24; Discussion. 12:410-16 D '24
Protection of the watershed of Beaver river in Pennsylvania. C. L. Siebert. Am Water Works Assn J 11:624-7 My '24; Same. Eng & Contr (W W) 61:1319-20 Je 11 '24
Protection of underground water supply. A. B. Cathcart. Engineering 118:151 Jl 25 '24
Quantitative studies of bacterial pollution and natural purification in the Ohio and the Illinois rivers. J. K. Hoskins. Am Soc C E Pro 51:1843-55 N '25
Rate of atmospheric reaeration of sewage polluted streams. H. W. Streeter. Am Soc C E Pro 51:1829-42 N '25
Rate of deoxygenation of polluted waters. E. J. Theriault. Am Soc C E Pro 51:1819-28 N '25
Relation of water supply and sewage disposal. G: D. Norcom. Am Water Works Assn J 14:116-19 Ag '25
Report on rivers pollution. Can Eng 46:502-3 My 6 '24
Review of the work of the United States Public health service in investigations of stream pollution. W. H. Frost. bibliog Am Soc C E Pro 51:1810-18 N '25; Discussion. 51:2057-64; 52:162-3, 351-3, 520-31 D '25-Mr '26
River pollution; the tar and bitumen question. Gas J (Lond) 170:366 My 6 '25
Sanitary control of ground water supplies. H. J. Darcey and others. Eng & Contr (W W) 64:381-8 Ag 12 '25
Sewage disposal and water purification in the upper Ohio river basin. P. Burgess. Am Water Works Assn J 13:293-8 Mr '25
Some public health engineering problems in Chicago. A. E. Gorman. W Soc E J 30: 141-5 Ap '25
State control of stream pollution. Chem Age 32:38-9 Ja '24
Stream pollution studies. Paper Tr J 79:75 N 27 '24
Survey of stream pollution in Ohio. Eng N 93:307 Ag 21 '24
Textile wastes and stream pollution. E. B. Besselievre. Am Dyestuff Rep 13:743-7; Discussion. 747-53 N 17 '24
Toxicity of trade waste. H. F. Stephenson. Soc Chem Ind J (Chem & Ind) 44:23-4 Ja 9 '25
Twelve towns attack stream pollution. il Dom Eng 112:23-4 Ag 22 '25
Water-borne disease epidemic in South Pasadena. diags Eng N 92:1018-19 Je 12 '24
White water losses and stream pollution. Paper Tr J 79:49-54 D 4 '24

WATER pollution—*Continued*
Wisconsin Supreme court enjoins stream pollution. W: R. Copeland. Eng N 95:390-1 S 3 '25

See also Filters and filtration; Mine water; Nuisances; Oil pollution of rivers and harbors; Refuse disposal; Sewage disposal; Trade waste; Water purification; Water supply; *also* National coast anti-pollution league

WATER power
Die ausnutzung der wasserkräfte. O. v. Miller. map diags Zeit Ver Deutsch Ing 69:730-2 My 23 '25
Big four in earth's water powers. H. P. Quick. maps Can Eng 47:189-92 Jl 29 '24
Developed and potential water-power of the world. Manuf Rec 87:77 Ap 9 '25; Power 61: 635 Ap 21 '25; Elec W 86:217-18 Ag 1 '25; Eng & Contr (W W) 64:93 Jl 8 '25
Der einfluss der energiespeicherung auf die energiewirtschaft und die rentabilität von wasserkraftanlagen. R. J. Nowotny. Elektrotech Zeit 45:1138-43 O 23 '24
Henry Ford talks white coal. J. M. Miller. Nation's Business 12:20 Mr '24
International hydroelectric congress, Grenoble, July 4-8. Engineering 120:240-2, 275-6 Ag 21-28 '25
Low head water power installation. E. C. Hurd. il Sibley J 38:228-9 D '24
Power demands exceed hydro resources. Elec W 84:1122-3 N 22 '24
Le problème financier de la houille blanche. Génie Civil 87:94-5 Jl 25 '25
Relation of power to irrigation. A. A. Smith. N E L A Bul 11:52-4 Ja '24
Le IIIe Congrès international de la houille blanche (Grenoble, 4-9 juillet 1925). A. Pawlowski. Génie Civil 87:88-92, 105-8 Jl 25-Ag 1 '25
Wanted—a standard method of rating rivers. Elec W 84:1001-2, 1309 N 8, 20 '24
Wasserkräfte an wasserstrassen. Gleichmann. diags Zeit Ver Deutsch Ing 68:1209-13 N 22 '24
What the World power conference showed about the world's natural power resources. maps Elec W 84:511-14 S 13 '24; Discussion. 84:843, 1158, 1309 O 18, N 29, D 20 '24
World's progress in water power. Iron Tr R 76:224 Ja 15 '25

See also Dams; Flumes; Hydraulic engineering; Hydraulic machinery; Hydroelectric plants; Hydroelectric power; Muscle Shoals project; Tide power; Turbines; Water wheels

Exhibitions
L'exposition internationale de la houille blanche et du tourisme (Grenoble, mai-octobre 1925). P. Carle. il plans Génie Civil 87:29-33 Jl 11 '25

Tables, calculations, etc.
How water power is figured. Power 59:502 Mr 25 '24

Alabama
See Muscle Shoals project

Alaska
Report to the Federal power commission on the water powers of southeastern Alaska. 172p U.S. Forest service, Washington '24

Arkansas
Harnessing Arkansás water-power. R. E. Livingston. il Sci Am 130:174 Mr '24

Austria
Statistisches wirtschaftliches und gesetzliches über den ausbau der österreichischen wasserkräfte. K. Naehr. Zeit Ver Deutsch Ing 68:240-2 Mr 8 '24

British Columbia
Hydro development in B.C. Can Eng 49:433-4 O 6 '25

California
How labor views the power situation in California. P. Scharrenberg. Ann Am Acad 118:63-6 Mr '25
Water-power development on Lower Klamath river prevented for all time. map Elec W 84:1070-1 N 15 '24

See also Hydroelectric plants—California

Canada
Comparative water power development in Canada and the United States. Elec R (Lond) 93:340-1 Ag 29 '24
Importance of stream flow data. Can Eng 47: 366 S 23 '24
Preliminary water power investigations. A. M. Beale. Can Eng 48:381-4 Ap 7 '25
Utilization of water power in Canada. diag Can Eng 46:601-4 Je 10 '24
Water power in the mining industry of Canada. Engineer 138:194 Ag 15 '24; Abstract. Elec W 84:433 Ag 30 '24
Water power in the pulp and paper industry of Canada; abstracts of report. Paper Tr J 79:46-7 Ag 21 '24; Power 60:112 Jl 15 '24
Water power resources in Canada. Can Eng 46:533-6 My 20 '24; Same cond. Engineer 137:439 Ap 25 '24; Abstract. Power 59:744 My 6 '24
Water power resources of Canada; abstracts. J. B. Challies. Engineering 118:301-2 Ag 29 '24; Can Eng 37:257-63 Ag 19 '24
Water power resources of the Dominion. Can Eng 48:404-7 Ap 14 '25; Same cond. Engineer 139:439 Ap 17 '25; Abstract. Power 61: 476 Mr 24 '25

See also Hydroelectric plants—Canada

Colorado
Colorado streams surveyed. Elec W 85:1416 Je 27 '25
Power projects possible on Arkansas river in Colorado. Eng & Contr (W W) 61:1300 Je 11 '24

Finland
State development of water power in Finland. Engineering 116:778-9 D 21 '23

France
L'aménagement de la chute des Sept-Lacs dans le massif de Belledone (Isère.). il diag plan Génie Civil 86:399-404 Ap 25 '25
Les applications jurisprudentielles de la loi du 16 octobre 1919 sur l'utilisation de l'énergie hydraulique. A. Mestre. Génie Civil 84:83-4 Ja 26 '24
Concession d'énergie hydraulique et expropriation; interprétation de la loi du 16 octobre 1919 par la Cour de Cassation. A. Mestre. Génie Civil 87:20-1 Jl 4 '25
Water power in France. Engineering 119:264 F 27 '25

See also Hydroelectric plants—France

Germany
Die geschichtliche entwicklung und ausnutzung der wasserkräfte Deutschlands. Windel. Elektrotech Zeit 46:807-9 My 28 '25

See also Hydroelectric plants—Germany

Great Britian
Water power resources of Great Britain. G. Thomson. Engineering 119:110-11 Ja 23 '25

India
Development of water-power, with special reference to India. B. D. Richards. Engineering 119:172 F 6 '25

Ireland
Shannon hydro-electric scheme to proceed as a state enterprise. Elec R (Lond) 96:571 Ap 10 '25
Shannon power scheme. Engineer 139:575-6 My 22 '25
Shannon power scheme. P. T. White. Elec R (Lond) 96:991-2 Je 19 '25
Shannon power scheme; the experts' report. Elec R (Lond) 96:512 Mr 27 '25; Discussion. J: P. Griffith. Engineer 139:132 Ja 30 '25

WATER power—*Continued*

Madagascar

Madagascar water power project. F. Reynier. Engineer 140:461-2 O 30 '25

Montana

Power possibilities of the South Fork, Flathead river. B: E. Jones and E: E. Jones. il maps Eng N 93:96-8 Jl 17 '24

Nebraska

Sources and uses of power in Nebraska. O. J. Shaw. Pub Serv Management 36:87-8 Mr '24

New England

Advisory board submits report on New England power. Eng N 92:770-1 My 1 '24; Power 59:725-8 My 6 '24

New England's power needs. maps Elec W 83:877-81 My 3 '24

New York (state)

Farm electrification in New York state and how it can be achieved. O. D. Young. Econ W n s 29:544-7 Ap 18 '25; Same. N E L A Bul 12:288-92 My '25; Same abr. Gen Elec R 28:214-18 Ap '25; Same cond. Am Bankers Assn J 17:685-7 My '25

Governor Smith propounds a new policy. Elec W 83:60-1 Ja 5 '24; Abstract. Power 59:71 Ja 8 '24

Governor Smith reiterates his recommendations for a state power authority. Elec W 85:114 Ja 10 '25; Excerpts. Power 61:79 Ja 13 '25

No hydro act in New York. Elec W 83:737 Ap 12 '24

North Carolina

Power situation in North Carolina. T. Saville. Manuf Rec 86:68-70 D 25 '24

Water-power situation in North Carolina. T. Saville. 25p North Carolina. Geological and economic survey, Chapel Hill '23

Norway

Norway; her water power and trade. A. Kildal. il Am Ind 25:15-20 Mr '25

Water power of Norway. il maps Elec W 86: 4 Jl 4 '25

Ontario

Ontario water power survey. Can Eng 49: 216-17 Ag 11 '25

Oregon

Water power possibilities in Oregon. Power Pl Eng 28:456-7 Ap 15 '24

Palestine

Projet de mise en valeur des chutes à créer entre la Méditerranée et la mer Morte; électrification de la Palestine, irrigation et canal de navigation intérieure. E. Imbeaux. plan map Génie Civil 87:92-3 Jl 25 '25

Réunion

Mise en valeur de l'ile de la Réunion; aménagement de ses chutes d'eau. L. Guérin. maps Soc Ing Civils Bul 78:152-80, pl 89 Ja '25

Sweden

Water-power of Sweden and the Swedish water-power association. Elec R (Lond) 94: 740 My 9 '24

See also Hydroelectric plants—Sweden

Switzerland

See Hydroelectric plants—Switzerland

Tennessee

Study of some of the smaller undeveloped water powers of Tennessee. J. A. Switzer. 24p Marshall & Bruce co., Nashville, Tenn. '23

United States

Comparative water power development in Canada and the United States. Elec R (Lond) 93:340-1 Ag 29 '24

Developed and potential water-power in United States. Manuf Rec 88:76-7 Ag 27 '25; Elec W 86:462 S 5 '25; Power 62:430 S 15 '25

Geological survey completes its records of water powers in United States; abstracts. Power 59:799 My 13 '24; Eng & Contr (W W) 61:1091 My 14 '24; Manuf Rec 85:85-6 My 8 '24; Power Pl Eng 28:1008-9 O 1 '24

Merrill endorses bill for gathering of data on water-power resources. Power 59:886 My 27 '24

Power must bear burden of development on Colorado river. F. G. Baum. il map J Elec 51:202-5 S 15 '23; Discussion. J. G. Scrugham. 51:325 N 1 '23

Survey of water resources by Geological survey meets opposition. Power 62:508 S 29 '25

Water power investigations made during 1923 by the U.S. geological survey. Eng & Contr (W W) 61:1288 Je 11 '24

Water-power situation in the United States. W. H. Voskuil. J Land & Pub Util Econ 1:89-101 Ja '25

Water powers of the Great Salt Lake basin. R. R. Woolley. maps plan U S Geol S Water-Supply Pa 517:1-270, pl 1-13 '24

See also Hydroelectric plants—United States; Niagara falls; Water power act, 1920

Wisconsin

Second report of the Railroad commission of Wisconsin on water powers, 1914-1923. 575p Wisconsin. Railroad commission, Madison '24

WATER power act, 1920

Federal water power act analyzed. W: B West. il diag Manuf Rec 85:87-9 My 8 '24

Merrill defends Power board's course. Elec W 84:857 O 18 '24

What is the Federal water-power act? H: M. Payne. Manuf Rec 86:77-8 D 18 '24

WATER purification

Accurate control of old filter plant. E. G. McConnell. Can Eng 48:307-8 Mr 10 '25

Algae control in Texas. W. S. Mahlie. Am Water Works Assn J 10:998-1010 N '23; Same abr. Eng & Contr (W W) 60:1235-8 D 12 '23

Alum agitation studies at Reading, Pennsylvania. C: R. Cox. il Eng N 93:101-4 Jl 17 '24

Alum feeding machine for water treatment. F. M. Veatch. diags plan Eng & Contr (W W) 61:557-9 Mr 12 '24

Alumina coagulant for potable water and industrial waste liquors; patent. Chem Age 32:470-1 N '24

Characteristic water supply struggles in West Virginia cities. E. S. Tisdale. Am Water Works Assn J 14:331-6 O '25

Columbus waterworks notes. diag Pub Works 55:187-8 Je '24

Composition of alum floc in mixing basin. E: S. Hopkins. Am Water Works Assn J 12: 405-9 D '24

Control of sludge level in sedimentation basins. L. B. Mangun. Am Water Works Assn J 13:459-65 Ap '25

Copper in distribution system following watershed treatment. F. E. Hale and H: F. Muer. Eng & Contr (W W) 64:66-8 Jl 8 '25

Copper-sulphate sown on ice of Cheyenne water-works reservoirs. P. R. Revis. Eng N 94:660-1 Ap 16 '25

Copper sulphate treatment for algae troubles. Am Water Works Assn J 11:258-65 Ja '24

Copper sulphate treatment of Cape Pond, the source of water supply for Rockport, Mass. E. S. Chase. il N E Water Works Assn J 38:48-60 Mr '24; Same cond. Eng & Contr (W W) 61:577-83 Mr 12 '24; Discussion. N E Water Works Assn J 38:60-2 Mr '24

Development of water purification. G: W. Fuller. Can Eng 46:321-3 Mr 11 '24; Same cond. Am Water Works Assn J 12:100-3 S '24

Drain valve for chemical solution tanks at filter plants. C. L. B. Anderson. diags Eng N 94:661 Ap 16 '25

Dry feed of chemicals. L. M. Booth. Am Water Works Assn J 11:480-2 Mr '24

WATER purification—*Continued*

Early results from Memphis water purification plant. W. Donaldson. bibliog il Eng N 93:992-4 D 18 '24

Effect of continuous treatment of water in settling basins at Council Bluffs. J. B. Thornell. Eng & Contr (W W) 61:1093-4 My 14 '24

Entnahme und reinigung von oberflächenwasser für industrielle anlagen. A. Vogt. diags Zeit Ver Deutsch Ing 68:632-4 Je 14 '24

Experience with chemical dry feeders at Gastonia, N.C. C. E. Rhyne. Munic & Co Eng 67:221-2 N '24; Same. Am Water Works Assn J 14:36-7 Jl '25

Experience with copper sulphate treatment of algae. J. M. Diven. Eng & Contr (W W) 61: 380 F 13 '24; Same. Am Water Works Assn J 11:264-5 Ja '24

Filtration and treatment of Burlington's water supply. O. A. Canning. N E Water Works Assn J 37:396-7; Discussion. 397-401 D '23

Great Lakes passenger vessels have pure drinking water. A. E. Gorman. il Nation's Health 7:604-5+ S '25

Hydrogen ion concentration and pH. L. H. Enslow. Pub Works 56:361-6 O '25

Hydrogen-ion concentration and soluble aluminium in filter plant effluents. W: D. Hatfield. Am Water Works Assn J 11:554-63 My '24

Hydrogen ion concentration and water purification at Cedar Rapids, Iowa. F. C. Mortensen. bibliog Am Water Works Assn J 13:33-8 Ja '25

Hydrogen-ion correction at Waterford. il Pub Works 55:145 My '24

Improvements of settling basins of Davenport water company. W: H. Kimball. il Munic & Co Eng 67:250-2 N '24; Same. Eng & Contr (W W) 62:1293-5 D 10 '24

Laboratory control in water purification. J. J. Hinman, jr. Can Eng 46:519 My 13 '24; Same. Munic Eng 67:120-5 Mr '24

Lake Erie water purified for Monroe, Mich. il diags plan Power Pl Eng 29:828-33 Ag 15 '25

Manganese in Baltimore water supply. il diags Am Water Works Assn J 12:211-33 [bibliog. p. 232-3] O '24

Manganese in laundry and pipe lines. H. C. Kneeland. Am Water Works Assn J 13:436-8 Ap '25

Mine water and its treatment. J. R. Campbell. Min Cong J 10:43-6 Ja '24; Discussion. C: Haydock. 10:133-4 Mr '24

Most interesting experience recently encountered in water treatment. il diags Am Water Works Assn J 12:206-49 [bibliog. p. 232-3] O '24

Operation of water purification plants. S. T. Barker and H. F. Ferguson. Can Eng 49: 435-7 O 6 '25

Operation results at the water purification plant at Topeka, Kansas. N. T. Veatch, jr. il Am Water Works Assn J 13:439-48 Ap '25

Optimum hydrogen ion concentrations for coagulation of various waters. G. F. Catlett. Am Water Works Assn J 11:887-95 Jl '24

Present methods of water purification in Providence, Rhode Island. J. W. Bugbee. N E Water Works Assn J 38:244-8 S '24; Same. Eng & Contr (W W) 62:829-32 O 8 '24; Same. Can Eng 48:259-60 F 24 '25; Discussion. N E Water Works Assn J 38:248-9 S '24

Producing artificial ground water at Frankfort, Germany. Dr Scheelhaase and G. M. Fair. diags Eng N 93:174-6 Jl 31 '24

Purification of water supplies; English experiences in use of lime and chlorination. A. Houston. Eng & Contr (W W) 62:821-3 O 8 '24

Purification of water supply is greatest typhoid preventive. H. B. Cleveland. Nation's Health 6:670-2 O '24

Rate of atmospheric reaeration of sewage polluted streams. H. W. Streeter. Am Soc C E Pro 51:1829-42 N '25

Ray of life and death; the ultra-violet ray sterilizer. A. J. Lynch. il Dom Eng 106:30+ Ja 12 '24

Recent developments in water supply and purification; report of the committee on water supply and purification of the American public health association. Munic & Co Eng 67:246-7 N '24; Same. Eng & Contr (W W) 62:1259-60 D 10 '24

Relation between design and operation of water treatment plants. P. Hansen. Eng & Contr (W W) 62:359-60 Ag 13 '24

Relation of improvements in water supplies to typhoid fever and other intestinal diseases. C. A. Holmquist. N E Water Works Assn J 38:237-43 S '24; Same abr. Eng & Contr (W W) 62:797-800 O 8 '24; Same, without table. Can Eng 48:385-6 Ap 7 '25

Removal of dissolved and suspended matter from St Louis water. Eng & Contr (W W) 64:357 Ag 12 '25

Review of water purification fundamentals. J. B. Marcellus. il Munic & Co Eng 68:243-5 My '25

Sacramento's pure water. I. Engler. il Pub Serv Management 36:40-1 F '24

Second water purification works for Oklahoma City. il plan Eng N 93:216-19 Ag 7 '24

Sedimentation in the purification of water at Cedar Rapids, Iowa. C. O. Bates. Am Water Works Assn J 12:104-6 S '24

Sedimentation of turbid river water. W. Kiersted. Eng & Contr (W W) 63:1268-74 Je 10 '25; Same abr. (Principles of four kinds of flow in settling basins). Eng N 93:346-7 Ag 28 '24

Sewage disposal and water purification in the upper Ohio river basin. P. Burgess. Am Water Works Assn J 13:293-8 Mr '25

Some swimming pool problems. R. O. Friend. Eng & Contr (W W) 64:865-6 O 14 '25

Some water treatment problems in Ontario. A. V. Delaporte. Am Water Works Assn J 11:605-12 My '24; Same. Can Eng 46:316-18 Mr 11 '24; Same abr. Eng & Contr (W W) 61:1048-51 My 14 '24; Discussion. Can Eng 46: 509-13+, 547-8 My 13-20 '24

Statistical approach to the problem of determination of allowable loadings for purification processes. A. Wolman. bibliog Am Water Works Assn J 13:232-6 F '25

Study of the efficiency of the improved water purification plant at Wilmington, N.C. G: D. Norcom. Am Water Works Assn J 11: 833-9 Jl '24; Excerpts. Pub Works 55:324 O '24

Supervision of water treatment plants in Michigan. E: D. Rich. Am Water Works Assn J 12:282-7 N '24; Same. Eng & Contr (W W) 60:1041-2 N 14 '23

Treatment and filtration of water. H. W. Clark. Eng & Contr (W W) 63:291-4 F 11 '25

Treatment of water for industrial purposes. Chem Age (Lond) 10:214-16 Mr 1 '24

Trend of purification plant design and operation. W. Donaldson. Eng & Contr (W W) 64:370-6 Ag 12 '25

Tricks of the trade in filter plant operation. il Eng & Contr (W W) 62:783-9 O 8 '24

Venturi speed controller for dry chemical feed devices. E. S. Smith, jr. and C. G. Richardson. il Eng N 92:844-5 My 15 '24

Vest station—Charlotte water works. E. G. McConnell. il diags Pub Works 56:109-14 Ap '25

Water and its relation to the textile industry. H. L. Tiger. il diags Am Dyestuff Rep 13: 673-86; Discussion. 686-8 O 20 '24

Water purification at Charleston, S. C. J. E. Gibson. Eng & Contr (W W) 63:129 Ja 14 '25

Water purification for small cities. H. V. Pederson. Munic & Co Eng 67:247-50 N '24; Same abr. Eng & Contr (W W) 63:306-8 F 11 '25; Abstract. Pub Works 56:21-2 Ja '25

Water purification in Ohio. H. W. Streeter. Eng & Contr (W W) 63:541-2 Mr 11 '25; Same. Can Eng 48:570 Je 9 '25

WATER purification—*Continued*
Water purification plant design and operation. S. T. Barker and H. F. Ferguson. Am Water Works Assn J 13:150-9 F '25; Same. Munic & Co Eng 68:98-102 F '25
Water purification plant loadings. Can Eng 47:537-9 N 25 '24
Water purification statistics. Pub Works 54: 399-401 D '23
Water supplies of the Panama canal. G: C. Bunker. il map Nation's Health 6:381-3+ Je '24
Water supply and purification. G: W. Fuller. Can Eng 45:487-8 N 13 '23
Water supply for textile mills. C: L. Hubbard. diags plan Textile World 68:2791+ N 7 '25
Water-treating system at Cahokia. diag Elec W 83:784 Ap 19 '24
Water treatment and laboratory control. W. F. Langelier. Am Water Works Assn J 13: 476-80 Ap '25
Water treatment and softening plant at Springfield. C. S. Timanus. il Am Water Works Assn J 13:630-7 Je '25; Same. Munic & Co Eng 68:208-11 Ap '25; Same. plan Eng & Contr (W W) 63:1047-51 My 13 '25; Abtract. Eng N 95:389 S 3 '25; Same. Sanitary & Heat Eng 104:211 O 2 '25
Water-works improvements at Wheeling, West Virginia. J. F. Laboon. il diags plan Eng N 92:848-50 My 15 '24
Water works practice in the Province of Quebec. T. J. Lafreniere. diag Can Eng 48:295-6 Mr 10 '25; Same. Am Water Works Assn J 13:613-18 Je '25; Discussion. Can Eng 48:296-8 Mr 10 '25
What is the ultra violet ray? Sanitary & Heat Eng 101:38+ Ja 25 '24

See also Copper sulfate; Feed water purification; Filters and filtration; Mine water; Screens; Strainers; Water—Deactivation and deaeration; Water aeration; Water softening; Water supply for factories

Chlorination

Chlorinating bathing water. W. P. Baker and P. E. McNabb. il Can Eng 47:507-8 N 11 '24
Chlorination of small water supplies. M. F. Tiernan. Am Water Works Assn J 12:272-8 N '24; Same. Eng & Contr (W W) 61:1305-9 Je 11 '24; Same. Can Eng 47:201-3 Jl 29 '24; Discussion. Am Water Works Assn J 12: 278-81 N '24
Chlorine control at Wilmington filter plant. W. C. Wills. Eng N 93:148-9 Jl 24 '24
Cincinnati water supply and the new U. S. P. H. S. standard. C. Bahlman. Am Water Works Assn J 14:260-6 S '25; Same. Eng & Contr (W W) 65:26-8 Ja 13 '26
Determining chlorine dosage graphically. W. M. Olson. Eng N 93:801 N 13 '24
Electrolytic production of chlorine gas. A. L. Googins. Am Water Works Assn J 13: 207-12 F '25
Free chlorine in drinking water. W. Olszewski. Eng & Contr (W W) 61:562-3 Mr 12 '24
Latest developments in chlorine control apparatus for sterilization of water supplies. G. H. Pratt. il diags N E Water Works Assn J 38:63-72 Mr '24
Modified pre-chlorination treatment. N. J. Howard. Can Eng 46:283-5 F 26 '24
New type of chlorinating apparatus at Albany water-works. T. Horton. il diag Eng N 94: 650-1 Ap 16 '25
New type T Paradon chlorinator for small water supplies. il Eng & Contr (W W) 64: 395-6 Ag 12 '25; Pub Works 56:sup46 S '25; Can Eng 48:611 Je 23 '25
Oil and tastes in chlorinated water. Am Water Works Assn J 12:233-5 O '24
Over-chorination for taste control. W. B. Bushnell. Am Water Works Assn J 13:653-4 Je '25; Same. Munic & Co Eng 66:266 Je '24; Same. Eng & Contr (W W) 62:84 Jl 9 '24
Paradon chlorinating apparatus. il Eng & Contr (W W) 63:544 Mr 11 '25; Can Eng 48: 389 Ap 7 '25
Paradon high capacity chlorinator for water department of New York city. il Eng & Contr (W W) 64:617 S 9 '25
Paterson chloronome for sterilising water. il Engineering 117:142-3 F 1 '24
Prechlorination at Toronto. Am Water Works Assn J 12:239-41 O '24
Readjustment of present orthotolidin standards for chlorine. H: F. Muer and F. E. Hale. Am Water Works Assn J 13:50-69 Ja '25
Secondary chlorination of New York's water supply. W: W. Brush. Eng & Contr (W W) 63:1299-1302 Je 10 '25; Same. Pub Works 56: 235-7 Jl '25; Same. Am Water Works Assn J 14:526-31 D '25; Abstract. Eng N 94:772-3 My 7 '25
Taste and odor in chlorinated water. R. M. Warren and E: Bartow. Am Water Works Assn J 11:381-6 Jl '24
Use of chlorine to assist coagulation. R. S. Weston. Am Water Works Assn J 11:446-50 Mr '24
Use of chlorine to sterilize water. Soc Chem Ind J (Chem & Ind) 44:374 Ap 10 '25
Wallace & Tiernan chloro-boat. il Eng & Contr (W W) 63:1303-4 Je 10 '25
Water motors inject chlorine at Moncton, N.B. J. van Benschoten. diag plan Can Eng 46: 281-2 F 26 '24; Same. Eng & Contr (W W) 61:589-91 Mr 12 '24

Color removal

Further studies of water purification by filters charged with aluminum or ferric hydroxide. H. W. Clark. N E Water Works Assn J 38: 84-93 Mr '24; Same. Eng & Contr (W W) 61:567-71 Mr 12 '24
Purification of colored water at Wilmington, N. C. G: D. Norcom. diag map Am Water Works Assn J 11:96-116; Bibliography. 116-17 Ja '24

Cost

Cost of treating water at St Louis. Eng & Contr (W W) 64:596 S 9 '25
Effect of the new impounding reservoir on filter plant operation at Decatur, Ill.; with cost tables. W: E. Stanley and E. E. Ruthrauff. Am Water Works Assn J 12:124-6 S '24; Same. Eng & Contr (W W) 61:1080-1 My 14 '24

Filtration

See Filters and filtration

Iron removal

8-M.G.D. Sioux Falls iron-removal plant. F. G. Gordon. il diags plan Eng N 91:882-3 N 29 '23
Iron removal from Naval academy water supply. E: C. Sherman. diag Eng & Contr (W W) 60:1267-8 D 12 '23
Iron removal plant at Griffin, Ga. E. S. Chase. Eng & Contr (W W) 62:1090 N 12 '24; Same. Am Water Works Assn J 12:246-8 O '24
Relative corrosibility of water supply. J. W. Ledoux. diags Eng & Contr (W W) 63:101-6 Ja 14 '25

Odor removal

Removing odor from water by chemicals. Eng & Contr (W W) 62:60 Jl 9 '24
Water-works problems in a town of 1,000 people. H. P. Letton. il Eng N 94:652 Ap 16 '25

Taste removal

Tastes due to algae growths. Am Water Works Assn J 12:307-11 N '24; Excerpt. G: R. Taylor. Eng & Contr (W W) 63:123-4 Ja 14 '25
Tastes in the water supply of Marquette, Mich., due to phenol wastes. P. Hansen. flow sheet diags plans N E Water Works Assn J 39:320-42 D '25; Abstract. Eng N 95:469 S 17 '25; Discussion. N E Water Works Assn J 39:343-4 D '25

WATER purification, Natural
Pollution and natural purification in the Ohio river. R. Suter. Am Water Works Assn J 13:314-22 Mr '25
Quantitative studies of bacterial pollution and natural purification in the Ohio and the Illinois rivers. J. K. Hoskins. Am Soc C E Pro 51:1843-55 N '25

WATER rates
Adopting proper schedule of water rates. W. W. Rich. Eng & Contr (W W) 60:1032-4 N 14 '23
Automatic sprinkler charges and regulations. Am Water Works Assn J 12:331-5 N '24
Charges for private fire protection services. Am Water Works Assn J 11:276-81 Ja '24
Current practice in charges for private fire protection. H. A. Burnham. N E Water Works Assn J 38:111-14 Je '24; Same. Eng & Contr (W W) 62:591-3 S 10 '24; Discussion. N E Water Works Assn J 38:115-18 Je '24
Federal court holds 9 1-2% not enough. J. B. Wootan. Pub Serv Management 36:38-9 F '24
Fire protection service of the water department: should it be paid from water rates or general tax fund? Am Water Works Assn J 11:203-8 Ja '24
Legal decisions on right to charge more than one minimum rate or service charge on multi-family houses. Am Water Works Assn J 11:238-44 Ja '24
New rate schedule for Massillon, Ohio. Eng & Contr (W W) 62:563 S 10 '24
Proper municipal hydrant rentals. W. C. Brockway. Eng & Contr (W W) 62:603-4 S 10 '24
Report on universal metering for the city of Chicago. D. H. Maury and Gordon. diags Eng & Contr (W W) 64:343-53, 567-74 Ag 12, S 9 '25
Segregation of water rates. Am Water Works Assn J 12:346-7 N '24
Service and consumption charges. Eng & Contr (W W) 61:1313 Je 11 '24
Water works information; water rates in 234 American cities. F. C. Jordan. Am Water Works Assn J 12:87-99 S '24
What a change from flat rates to meter did for one town. W. R. Davis. Eng & Contr (W W) 61:92-4 Ja 9 '24

See also Waterworks—Finance

WATER rights
Allocation of water supplies derived from the watersheds of interstate streams. L. P. Wood. Am Water Works Assn J 11:521-32 My '24
Allocation of water supplies derived from the watersheds of interstate streams. M. Knowles. Am Water Works Assn J 12:297-300 N '24
Better prospects for settlement of Owens Valley dispute. Eng N 94:767-8 My 7 '25
California Edison appeals. Elec W 85:526 Mr 7 '25
Compact as to the water resources of the Delaware river between the commonwealth of Pennsylvania, the state of New Jersey and the state of New York. Am Water Works Assn J 13:160-82 F '25; Abstract. Eng N 94:233-4 F 5 '25
Control of appropriations of water in California. E: Hyatt, jr. Am Water Works Assn J 13:125-44 F '25
Interstate water problems. F. C. Emerson. Eng N 95:105, 397 Jl 16, S 3 '25
New Mexico-Colorado water compact ratified by Congress. Eng N 94:431 Mr 12 '25
Supreme court decides interstate drainage suit: Minnesota not responsible for flooding Dakota stream. map Eng N 92:1008-9 Je 12 '24
Supreme court protects water users against overselling of water. Eng N 93:11 Jl 3 '24
Les travaux d'aménagement des chutes d'eau sont-ils des travaux publics? A. Mestre. Génie Civil 85:137-8 Ag 9 '24
Water district and power company adjust differences. A. L. Shaw. il Eng N 94:660 Ap 16 '25

See also Water laws and legislation; *also* Chicago drainage canal

WATER softening
Bad water made suitable for domestic and power-plant use by treatment and purification. F. L. Serviss. il diag plan Coal Age 26:398-402 S 18 '24
Characteristic properties of zeolites for water softening. S. B. Applebaum. Am Water Works Assn J 13:213-20; Discussion. 226-31 F '25
Chemical engineering aspects of water treatment for railroads. W: M. Barr. il Am Inst Chem Eng Trans v 16 pt 1:149-61 '24; Same cond. Chem & Met Eng 31:348-51 S 1 '24; Same. Eng & Contr (Ry) 62:867-71 O 15 '24
Chemicals used for softening water. Power Pl Eng 29:582 Je 1 '25
China clay as refining agent. Chem Age (Lond) 11:sup14 S 20 '24
Doucil—a new base exchanging silicate. J. G. Vail. Chem Age 32:489-92 D '24
East Durham water for boiler and other purposes. W. G. Carey. Soc Chem Ind J 44:286-90 Je 12 '25
Effect of hard water in union dyeing. H. C. Roberts. il Textile World 68:1161 Ag 29 '25
Features of Newark, Ohio, water softening plant. C. T. Kaiser. il Eng N 95:174-5 Jl 30 '25
Horton water-softening plant. il Eng & Contr (Equip R) 61:915-16 Ap 30 '24
Hot water softener saves over $7,000 a year. J. E. Durfee. Power 60:11 Jl 1 '24; Discussion. G. B. Randall. 60:224 Ag 5 '24
Keeping boilers permanently free from scale. W. J. Hughes. il Gas Age 55:637-40, 673-5 My 2-9 '25
Mixing devices and reaction time. C: P. Hoover. Am Water Works Assn J 11:582-97 My '24
Modern water softening and the textile industry. L. H. Harrison. Chem Age (Lond) 12:432-3 My 2 '25
Municipal water softening in Illinois. A. M. Buswell. Am Water Works Assn J 12:107; Discussion. 108-9 S '24
Outline of tentative specifications for pressure water softening plant. Am Arch 124:sup12+ D 5 '23
Permutit process of softening water for use in waste-heat boilers. E. Brooke-Pike. Gas J (Lond) 171:674-5 S 16 '25; Discussion. 171: 732 S 23 '25
Practical pointers in the art of softening boiler-feed water. L. L. Baker. Power 62: 479-80 S 29 '25
Preparation and comparative performance of base-exchange water-softening materials. E. B. Higgins and J. P. O'Callaghan. Soc Chem Ind J (Chem & Ind) 44:882-5 S 4 '25
Railway water treating plants. C. R. Knowles. il Eng & Contr (W W) 63:285-9 F 11 '25
Recarbonization of softened water. N: S. Hill, jr. Am Water Works Assn J 11:393-408 Mr '24
Recent experience with doucil as a water-softening material. T. P. Hilditch and H. J. Wheaton. Soc Chem Ind J (Chem & Ind) 44:885-7 S 4 '25
Removing water temper. H. R. Eicher. diags Dom Eng 108:23+ Ag 16 '24
Scientific washing. F. H. Guernsey. Am Dyestuff Rep 14:177-80 Mr 23 '25
Soda salts used in water softening. D. K. French. Ry R 73:876 D 15 '23
Soft and hard water in scouring. H. C. Roberts. Textile World 68:495+ Jl 25 '25
Softening hot water supplies; the colloidal treatment. Chem Age (Lond) 12:250 Mr 14 '25
Softening of public water supplies. G. S. Strout. Am Water Works Assn J 12:398-404 D '24
Softening of water for bleaching and dyeing. W: S. Chester. Textile Col 45:767-70; 46:89-91, 294-7, 434-6, 631-4 D '23, F, My, Jl, O '24
Solving a mill's water problem. W. F. Schaphorst. il Textile World 65:1007+ F 2 '24
Some data on water softening. Textile Col 47: 105 F '25
Treatment of a boiler feed water by a zeolite softening system. S. T. Powell and J: H. Wolfe. Ind & Eng Chem 17:584-5 Je '25
Treatment of water for industrial purposes. Chem Age (Lond) 10:214-16 Mr 1 '24

WATER softening—*Continued*
Union Pacific water work proves profitable; investigation develops significant facts about long locomotive runs. il charts map Ry Age 77:585-92 O 4 '24; Same cond. Eng & Contr (Ry) 62:1109-17 N 19 '24
Water and its relation to the textile industry. H. L. Tiger. il diags Am Dyestuff Rep 13: 673-86; Discussion. 686-8 O 20 '24
Water and its treatment. Am Dyestuff Rep 13:698-9 O 20 '24
Water carbonation by use of chimney gases. diags Eng & Contr (W W) 61:1092 My 14 '24
Water purification for industrial purposes. J. P. O'Callaghan. Engineering 117:286-7 F 29 '24; Excerpts. Engineer 137:233-4 F 29 '24; Discussion. Engineering 117:267-8 F 29 '24; Engineer 137:234 F 29 '24
Water softening and purification in cotton processing. C. C. Adams. Am Dyestuff Rep 13: 718-20 N 3 '24
Water softening and the textile industry. L. H. Harrison. il diags Soc Dyers & Col J 41:271-5 Ag '25
Water softening at St Paul. Eng & Contr (W W) 63:764 Ap 10 '25
Water softening by base exchange. G. C. Baker. bibliog Am Water Works Assn J 11: 128-49 Ja '24
Water-softening by means of doucil. T. P. Hilditch and H. J. Wheaton. Engineering 117:287-8 F 29 '24; Same cond. Engineer 137:234 F 29 '24; Discussion. Engineering 117:267-8 F 29 '24; Engineer 137:234 F 29 '24
Water softening demonstration. C: P. Hoover. Am Water Works Assn J 11:150-4; Discussion. 154-6 Ja '24
Water softening in the textile industry. E. Nordell. il Textile Col 47:652-3 O '25
Water-softening in Virginia by iron sulphate and lime. Am Water Works Assn J 12:243-6 O '24
Water softening plant at Ellesmere Port. diags Engineer 139:386 Ap 3 '25
Water-softening plant at Erith. il diags Engineer 138:522-3 N 7 '24
Water station and softening plant, Clinton, Illinois. C. R. Knowles. il diags plan Ry R 74:958-62 My 31 '24; Same cond. Ry Age 76:1309-11 My 31 '24
Water supply for textile mills. C: L. Hubbard. diags Textile World 68:2793-4 N 7 '25
What to expect from a water-treating plant. A. S. Behrman. Power 60:1017-18 D 23 '24; Same. Refrig W 60:21-2 Ja '25

See also Feed water purification

Patents

Gans patent for water-softening apparatus declared invalid. Chem & Met Eng 30:631-2 Ap 21 '24

WATER storage
Exemples d'installations hydrauliques d'accumulation et de pompage, en Suisse, en Italie et en France. il Génie Civil 84:208-9 Mr 1 '24
Hydro-electric power as a by-product of agricultural storage. E. N. Bryan. Am Soc C E Pro 51:80-92 Ja '25; Abstract. Elec R (Lond) 96:195-6 Ja 30 '25; Discussion. Am Soc C E Pro 51:909-10 My '25
Storage—a solution of the fire reserve problem. C: W. Parsons. Am Water Works Assn J 13:638-46 Je '25; Same. Munic & Co Eng 68:181-6 Ap '25; Same. Eng & Contr (W W) 63:768-73 Ap 10 '25
Storage dams at Lake Kenogami, Que. A. F. Dyer. il diags plan Can Eng 49:489-94 O 27 '25
Water pumped in summer to develop power in winter; hydroelectric works in the Wäggital. il plan Power 61:693-5 My 5 '25

See also Dams; Irrigation; Rain and rainfall; Reservoirs; Standpipes; Surge tanks; Water supply; Water tanks; Water towers

WATER supply
East Durham water for boiler and other purposes. W. G. Carey. Soc Chem Ind J 44: 286-90 Je 12 '25
Emergency water supplies for military, agricultural and colonial purposes. A. B. Thompson. 192p Van Nostrand '24
Metropolitan water supply systems. M. Knowles and J: A. Fulkman. Am Water Works Assn J 13:601-12 Je '25
Our water supplies. E. Thompson. Soc Chem Ind J (Chem & Ind) 42:1152-5 N 30 '23
Relation of hardness in water supply to public health. E. S. Chase. Am Water Works Assn J 11:873-8; Discussion. 878-80 Jl '24
Sanitary control in the development of ground water supplies. Eng N 95:626 O 15 '25
Water and sewerage construction at state institutions by Maryland department of health. G: L. Hall. il Eng N 93:490-5 S 25 '24
Water shortage caused by too much rain. H. M. Freeburn. Eng & Contr (W W) 63:127 Ja 14 '25
Water supply for towns. L. Higgins. Am Water Works Assn J 13:183-5 F '25
Water supply of buildings and rural communities. W. S. L. Cleverdon. 186p Van Nostrand '25

See also Aqueducts; Artesian wells; Barrages; Cooling of water; Dams; Drinking fountains; Feed water; Filters and filtration; Fire service (water supply); Hot water supply; Hydrants; Hydraulic engineering; Irrigation; Plumbing; Pumping machinery; Pumping stations; Pumps; Railroads—Water supply; Reservoirs; Snow surveys; Springs; Standpipes; Stream measurement; Water, Underground; Water companies; Water consumption; Water distribution; Water meters; Water pollution; Water purification; Water storage; Water supply engineering; Water tanks; Water towers; Water waste; Watersheds; Waterworks; Wells; *also* Catskill aqueduct; Hetch Hetchy water supply project; *also* subdivision Water supply under names of cities, e.g. Chicago—Water supply; Detroit—Water supply; Madrid, Spain—Water supply; New York (city)—Water supply; Philadelphia—Water supply; San Diego, California—Water supply; Washington, D.C.—Water supply

Grading

System of sanitary grading of water supplies. E. S. Chase. Eng N 95:469-70 S 17 '25

Iodine treatment

Iodin treatment in Michigan. E. D. Rich. map Am Water Works Assn J 14:325-30 O '25
Iodine as a preventive of goitre. Pub Works 56:27 Ja '25
Iodine treatment of water to prevent goiter. J. W. Ellms. Eng & Contr (W W) 61:382-3 F 13 '24
Sodium iodide treatment of Rochester's water supply. B. C. Little. Am Water Works Assn J 12:68-73 S '24; Same. Eng & Contr (W W) 61:1279-81 Je 11 '24; Same. Can Eng 47:155-6 Jl 15 '24; Discussion. Am Water Works Assn J 12:73-86 S '24; Can Eng 47:220 Ag 5 '24
Use of iodides in water supplies to prevent simple goiter. A. F. Mellen. bibliog Eng N 95:352-4 Ag 27 '25

Protection

Protection of public water supply by forest cover. W. W. Ashe. Am Water Works Assn J 13:404-9 Ap '25; Excerpt. Pub Works 56: 216 Je '25; Discussion. Am Water Works Assn J 13:409-10 Ap '25

Arizona

Papago country, Arizona. K. Bryan. diags maps U S Geol S Water-supply Pa 499:1-436, pl 1-27 '25

Bermuda

Engineering impressions of Bermuda. E. J. Mehren. il Eng N 92:523-5 Mr 27 '24

WATER supply—*Continued*

California

Additional water supply project for East Bay municipal utility district in California. A. P. Davis. Am Water Works Assn J 13:424-35 Ap '25

Control of appropriations of water in California. E: Hyatt, jr. Am Water Works Assn J 13:125-44 F '25

Ground water in Santa Clara valley, California. W: O. Clark. maps U S Geol S Water-supply Pa 519:1-209, pl 1-19 '24

Records show 1924 was year of lowest stream flow in California. H. D. McGlashan. J Elec 54:46-7 Ja 15 '25

Water resources of California. P. Bailey. Am Water Works Assn J 14:309-14 O '25

Egypt

Water supply to the smaller provincial towns of Egypt. R. H. L. Pennell and H. Addison. Engineering 118:735-6 N 28 '24

Hawaiian Islands

Surface water supply of Hawaii, July 1, 1919 to June 30, 1920. N. C. Grover and J. E. Stewart. U S Geol S Water-supply Pa 516: 1-159 '24

Illinois

Future of water reservoir projects in Illinois and their relationship to geologic data. M. M. Leighton. diag maps Am Water Works Assn J 11:770-80 Jl '24; Same. Eng & Contr (W W) 61:1061-5 My 14 '24

Operation of water purification plants. S. T. Barker and H. F. Ferguson. Can Eng 49: 435-7 O 6 '25

India

Jharia waterworks. il diags map plan Engineer 138:721-4 D 26 '24

Indiana

Good and bad water supplies in Indiana. Eng N 94:602 Ap 9 '25

Utilizing the streams of Indiana. R: Lieber. Am Water Works Assn J 13:521-5 My '25

Water supply situation in Indiana. L. A. Geupel. Am Water Works Assn J 13:325-31 Mr '25

Iowa

Condition of the minor public water supplies in Iowa. H. V. Pedersen. Am Water Works Assn J 11:467-71 Mr '24

Hydrologic records in Iowa. F. A. Nagler. Am Water Works Assn J 13:7-10 Ja '25

Japan

Quake damage to water supplies of Japanese railways. M. Nawa. map Eng N 93: 986 D 18 '24

Latin America

Machines and equipment for supplying man's oldest necessity—water. T. S. Dayton. il Dun's Int R 45:48-51 Ag '25

Maryland

Establishment of a metropolitan district in Baltimore county contiguous to Baltimore city, Maryland. V. B. Siems. map N E Water Works Assn J 38:250-6 S '24

Massachusetts

Massachusetts general health laws relating to water supply. N E Water Works Assn J 38:353-439 D '24

Statistics of Massachusetts water supplies. N E Water Works Assn J 38:144-97 Je '24

Michigan

Supervision of water treatment plants in Michigan. E: D. Rich. Am Water Works Assn J 12:282-7 N '24

Montana

Ground water in Musselshell and Golden Valley counties, Montana. A. J. Ellis and O. E. Meinzer. maps U S Geol S Water-supply Pa 518:1-92. pl 1-5 '24

New Hampshire

Random notes on sanitation in New Hampshire. C: L. Pool. N E Water Works Assn J 38:122-7; Discussion. 128-9 Je '24

New Jersey

New Jersey water supply problem. Review, by G. L. Hall. Am Water Works Assn J 13:466-70 Ap '25

Waterworks plans for New Jersey municipalities. Pub Works 56:374-5 O '25

See also Delaware river

New York (state)

How a river control district is building its reservoir. E. S. Cullings. map Eng N 92: 763-4 My 1 '24

Water district for Westchester county. map Pub Works 55:157-9, 189-90 My-Je '24

See also Catskill aqueduct; Delaware river; New York. (city)—Water supply

North Carolina

Objective, policy and procedure of the North Carolina state board of health in water supply. H. E. Miller. Am Water Works Assn J 11:845-8 Jl '24

North Dakota

Waters of North Dakota. A. E. McCoy. Am Water Works Assn J 11:458-66 Mr '24

Panama Canal Zone

Water supplies of the Panama Canal. G: C. Bunker. il map Nation's Health 6:381-3+ Je '24

Pennsylvania

Purity of roadside drinking water; what Pennsylvania is doing. W. G. Turnbull. Ann Am Acad 116:60-2 N '24

Testing and placarding roadside waters in Pennsylvania. E. L. Waterman and H. P. Drake. il Eng N 94:645-6 Ap 16 '25

See also Delaware river; Philadelphia—Water supply

Quebec

Status of water supplies in Quebec, 1923. T. J. Lafreniere. Can Eng 46:273 F 26 '24

Water works practice in the Province of Quebec. T. J. Lafreniere. diag Can Eng 48: 295-6 Mr 10 '25; Same. Am Water Works Assn J 13:613-18 Je '25; Discussion. Can Eng 48:296-8 Mr 10 '25

Ruhr valley

Water supply and sewage disposal in the Ruhr valley. K. Imhoff. il maps Eng N 94: 104-6 Ja 15 '25

United States

Allocation of water supplies derived from the watersheds of interstate streams. M. Knowles. Am Water Works Assn J 12:297-300 N '24

Allocation of water supplies derived from the watersheds of interstate streams. L. P. Wood. Am Water Works Assn J 11:521-32 My '24

Surface water supply of the United States, 1919-1920; Colorado river basin. N. C. Grover and others. U S Geol S Water-supply Pa 509:1-269, pl 1-2 '25

Bibliography

Index of analyses of natural waters in the United States. W. D. Collins and C. S. Howard. U S Geol S Water-supply Pa 560—C:53-85 '25

Vermont

Public water supplies of Vermont. C: P. Moat. N E Water Works Assn J 37:291-4; Discussion. 294-7 S '23

West Virginia

Characteristic water supply struggles in West Virginia cities. E. S. Tisdale. Am Water Works Assn J 14:331-6 O '25

WATER supply, Roadside

Certified roadside water in Ohio. Pub Works 56:159 My '25

Minnesota highway signs show approved water supply. Eng & Contr (R & S) 63:1237 Je 3 '25

Protection of tourist water supplies in Illinois. Eng & Contr (W W) 63:745 Ap 10 '25

Purity of roadside drinking water; what Pennsylvania is doing. W. G. Turnbull. Ann Am Acad 116:60-2 N '24

Testing and placarding roadside waters in Pennsylvania. E. L. Waterman and H. P. Drake. il Eng N 94:645-6 Ap 16 '25

WATER supply, Rural

Farm water supply and sewage disposal. C: L. Hubbard. il diags Dom Eng 108:21-3 S 20 '24

Golf club water supply. D. Shaw. il diags Arch Forum 42:199-202 Mr '25

Modern methods of pumping, storing and distributing water. E. L. D. Seymour. il diags Dun's Int R 44:37-41+ Ja '25

Pure water for the farm. J: Y. Dunlop. il diag plans Dom Eng 113:18-19 O 24 '25

WATER supply engineering

Abstracts of papers, committee reports and discussions before the American water works association 44th annual convention. Eng N 92:924-8 My 29 '24

Additional water supply project for East Bay municipal utility district in California. A. P. Davis. Am Water Works Assn J 13:424-35 Ap '25

American water-works practice: observations of an Australian. E. G. Ritchie. Eng N 93: 100 Jl 17 '24

City of Washington builds nine-mile aqueduct. il plan map Eng N 95:88-93 Jl 16 '25

Comprehensive water supply program. J. W. Porter. il map Ry R 76:217-23 Ja 31 '25

Driving Wanaque tunnel for North Jersey water supply; 860-ft. tunnel to carry supply line under overflow channel of dam. diags Eng N 95:460-1 S 17 '25

Emergency water supplies. A. B. Thompson. 192p Van Nostrand '24

Free discharge of large volumes of water. il diags Engineering 118:247 Ag 22 '24; Same cond. Mech Eng 46:703-4 N '24

Meeting a drought emergency. V. B. Siems. il Pub Works 56:369-71 O '25

New water works system, Batiscan, Quebec. R. Morrissette. plans Can Eng 46:425-7 Ap 15 '24

Operation features stressed by New England water works association. Eng N 93:576-8, 719 O 9, 30 '24

Plugging a high pressure tunnel, Buffalo filter plant. C. S. Rindsfoos. diag plan Eng N 94:641-3 Ap 16 '25

Public water supplies. A. Hazen. Eng N 92: 695-7 Ap 17 '24

Public water-supplies; requirements, resources, and the construction of works. F. E. Turneaure and H. L. Russell. 3d ed., rev. 766p Wiley '24

Reinforced concrete reservoir and pipe tunnel at Calumet City, Illinois. E. A. Clark. Munic & Co Eng 68:145-8 Mr '25; Same. il Eng & Contr (W W) 63:1041-6 My 13 '25; Same cond. Pub Works 56:122-5 Ap '25; Same cond. Eng N 95:540-2 O 1 '25

Some recent developments in water supply practice. Munic Eng 65:239-40 N '23

Spavinaw water supply project. W. R. Holway. il map Pub Works 56:1-5 Ja '25

Spavinaw water supply project at Tulsa, Okla. A. S. Holway. il Eng & Contr (W W) 62: 1261-7 D 10 '24

Standardization council and other committee reports, American water works association. Eng N 94:773 My 7 '25

Staunton water supply project. W. F. Day. il Pub Works 56:88-90 Mr '25

Submarine pipe line between Portland and South Portland, Maine. H. U. Fuller. il diags plan N E Water Works Assn J 37: 298-308; Discussion. 309-11 S '23

Suorva Lakes dams, Lapland. il diags maps Engineering 116:731-5, 746 D 14 '23; Same. Eng & Contr (W W) 61:361-8 F 13 '24

Survey control in driving 3-mile water-supply tunnel. R: R. Bradbury. il Eng N 95:594-8 O 8 '25

$39,000,000 water project of the East Bay cities in California. map Eng N 93:960-1 D 11 '24

Value of comprehensive water supply investigations. A. Van Praag, jr. Am Water Works Assn J 11:451-7 Mr '24

Water supply in 1923. Engineer 137:38-40 Ja 11 '24

Water supply in 1924. Engineer 139:68-9, 100-2 Ja 16-23 '25

Water supply increase with no capital investment. F: E. Beck. Pub Works 55:387-8 D '24

Water supply of Price City, Utah. J. W. Plant. il Eng & Contr (W W) 63:781-3 Ap 10 '25

Water-works improvements at Winner, South Dakota. G: T. Prince. Munic & Co Eng 67: 229-31 N '24; Same. Eng & Contr (W W) 62:1298-90 D 10 '24

Zoning and water supply. H. M. Pirnie. Am Soc C E Pro 51:258-61 F '25

See also Aqueducts; Barrages; Dams; Filters and filtration; Fire service (water supply); Hot water supply; Hydraulic engineering; Intakes; Irrigation; Pipe laying; Plumbing; Pumping machinery; Pumping stations; Pumps; Railroads—Water supply; Reservoirs; Siphons; Surge tanks; Water conduits; Water distribution; Water flow; Water hammer; Water meters; Water pipes; Water storage; Waterworks; *also* Catskill aqueduct Hetch Hetchy water supply project; San Diego, California—Water supply

Bibliography

Abstracts of water works literature. F. Hannan. Published in monthly numbers of Journal of the American water works association

WATER supply for contractors

Use of city water by contractors. Pub Works 55:15 Ja '24

WATER supply for factories

Cleaner water for factory uses. il Factory 34:284-5+ F '25

Cold water for refineries. W. F. Besselman. il diag Pet Age 13:28-9 Ap 1 '24

Combined suction air chamber and strainer. W: A. Davidson. diag plans Power 61:796-7 My 19 '25

Corn products co. water supply and underground pumps. il diags Eng N 93:501-3 S 25 '24

Deep-well water pumping. G. B. Mulloy. il Power 61:992-4 Je 23 '25

Entnahme und reinigung von oberflächenwasser für industrielle anlagen. A. Vogt. diags Zeit Ver Deutsch Ing 68:632-4 Je 14 '24

Ingenious method of reconstructing and erecting settling tanks. H. R. Wass. diags Ind Eng 83:495-6 O '25

More economical operation of drinking water systems. M. N. Cutter. Factory 32:388+ Mr '24

Sure supply of good water most vital to natural gasoline plant. E. Kaye. Nat Pet N 17:40G-J Ap 29 '25

Temperature of water available for industrial use in the United States. W. D. Collins. U S Geol S Water-supply Pa 520—F:97-104, pl 8-11 '25; Abstract. Refrig Eng 12:11-13 Jl '25

Treatment of water for industrial purposes. Chem Age (Lond) 10:214-16 Mr 1 '24

Water and heat economy. C. Rye. diags Dom Eng 107:24 My 24 '24

Water conditions for papermaking. L. M. Booth. Paper 33:5 N 22 '23

Water in the paper industry. M. Aribert. Paper Tr J 79:52-4 N 6 '24

Water treating plant at new K.V.P. mill. H. P. Hall. il Paper Tr J 78:101-2 Ap 10 '24

Well water system in the mill. T. H. Hammond. il Paper 33:11-13 Ja 24 '24

See also Cooling of water; Drinking fountains; Water supply for textile mills

WATER supply for power plants
Fresh water supply for Somerset station Montaup electric company. D. M. Wood. il diags plans Boston Soc C E J 12:333-43 O '25
Influence of water on the location of giant power plants. A. Ulmann, jr. Ann Am Acad 118:141-8 Mr '25
Reducing the power-plant water bill. T. Blauer. diags Power 62:286 Ag 25 '25
See also Feed water

WATER supply for ships
Great Lakes passenger vessels have pure drinking water. A. E. Gorman. il Nation's Health 7:604-5+ S '25

WATER supply for textile mills
Water and its relation to the textile industry. H. L. Tiger. il diags Am Dyestuff Rep 13: 673-86; Discussion. 686-8 O 20 '24
Water as a raw material. plan Chemicals (Dyestuffs sec) 17:45-6 Ag 17 '25
Water softening and the textile industry. L. H. Harrison. il diags Soc Dyers & Col J 41:271-5 Ag '25
Water supply for textile mills. C: L. Hubbard. diags plan Textile World 68:2791+ N 7 '25

WATER tanks
Elevated tank construction. G: T. Horton. il diags Munic & Co Eng 68:262-9 My '25
Example of faulty tank construction. R. B. Boals. Power 59:61 Ja 8 '24
Fire tanks welded. C: Seitz. il Iron Age 116: 1250 N 5 '25
Improved pneumatic tank. W. L. Hooks. diag Dom Eng 108:42 Jl 19 '24
See also Water towers

WATER tanks, Concrete
Concrete tanks for railway water service. C. R. Knowles. Eng & Contr (Ry) 60:1078-81 N 21 '23
Rational design of reinforced concrete tanks. A. S. Milinowski. il diags Munic & Co Eng 68:288-99 Je '25

WATER tanks, Steel
Extensive use of steel water tanks at Wheeling, W. Va. Eng N 92:229 F 7 '24

Standards

Standardized elevated steel water tanks. J. E. O'Leary. Can Eng 48:635-7 Je 30 '25; Same. Am Water Works Assn J 14:190-8 S '25; Abstract. Eng N 94:832-3 My 14 '25

WATER towers
Water tower of unusual design. A. Laffon. Engineer 138:664-5 D 12 '24
See also Water tanks

Repair

Repairing water and sewer works with gunite. L. B. Penhallow. il Munic & Co Eng 66:149-50 Ap '24

WATER towers, Concrete
Concrete water tower at Emporia, Kan. diag Concrete 27:27 Jl '25
Constructing a water tower of thin concrete sections. L. J. Pond. il diag Concrete 25: 185 N '24; Same. Eng & Contr (W W) 63: 90-1 Ja 14 '25
New tower for water tank houses pumps at Rochester, Minn. il diag Eng N 95:338-9 Ag 27 '25
Water tower has served 20 years. il Concrete 27:20 N '25
See also Cooling towers, Concrete; Standpipes, Concrete

WATER towers, Steel
Correcting defective water tower after faulty erection. S. E. Berkenblit. diags Eng N 92: 538-9 Mr 27 '24
Heavy ice load on a tank tower. il Eng N 94:517 Mr 26 '25

Failures

Water tank collapses in New York city injuring two. Eng N 95:319+, 361 Ag 20-27 '25

WATER troughs
Design of wash water troughs for rapid sand filters. M. F. Stein. Am Water Works Assn J 13:411-15; Discussion. 415-17 Ap '25

WATER-TUBE boilers. See Boilers, Water tube

WATER vapor
Activity of water in hydrochloric acid. H. J: E. Dobson and I. Masson. diag Chem Soc J 125:668-76 Mr '24
Detector for water vapor in closed pipes. E. R. Weaver and P. G. Ledig. il diags U S Bur Stand Tech Pa 242:637-44 '23
Determination of viscosity of water vapor; abstract. H. Speyerer. Mech Eng 47:757-8 S '25
Influence of water on certain chemical reactions; the effect of various concentrations of water vapor on the reaction between chlorine and potassium iodide and chlorine and potassium bromide. L. B. Parsons. Am Chem Soc J 47:1817-20 Jl '25
Physical properties of water vapor. A. Lartigue. diags Mech Eng 47:123-5 F '25
See also Steam

WATER vapor-air mixtures
New diagram for water vapor-air mixtures. A. Mollier. diags Mech Eng 45:703-5 D '23

WATER waste
Chicago wastes 55% of water pumped. Pub Serv Management 36:14 Ja '24
Discussion on report of the Committee on methods and records of water waste control. Am Water Works Assn J 11:282-94 Ja '24
Leakage and unaccounted for water. J. N. Chester and E. E. Bankson. diags Am Water Works Assn J 11:381-8 Mr '24; Excerpt. Eng & Contr (W W) 61:805-7 Ap 9 '24; Discussion. Am Water Works Assn J 11:388-92 Mr '24
Reducing water waste in border cities. J. C. Keith. Can Eng 48:563-8 Je 9 '25
Secretary of war's concern over water waste at Chicago. J: M. Goodell. map Am Water Works Assn J 13:556-87 My '25
Why Chicago needs universal meterage. J: Ericson. diag Eng & Contr (W W) 62:337-9 Ag 13 '24
See also Seepage; Water meters; Water pipes—Leakage

WATER wheels
Shrink-fitting waterwheel runner by induction. C. H. Bragg. il Elec W 83:291 F 9 '24
What is the specific speed of a water wheel? K. R. Kennison. Boston Soc C E J 12:52-4 Ja '25
Wheels that turn beauty and power. J: S. Fitz. il Am Ind 24:27-9 Mr '24
See also Turbines

WATER works. See Waterworks

WATERFALLS
See Iguaza falls; Niagara falls

WATERLOO, Iowa

Rapid transit

Interurban control changed. Elec Ry J 62: 917 N 24 '23

WATERLOO, Ontario
Planning of Kitchener and Waterloo, Ont. H. L. Seymour. il map Can Eng 47:125-30 Jl 8 '24

WATERLOO bridge. See London, England—Bridges

WATERMARKS
Symbolism of paper markings. D. Hunter. il Paper 33:3-6 D 20 '23
Watermarking invention. diag Paper 35:200 N 20 '24

WATERPROOFING
Asphalt blocks make satisfactory protection for waterproofing. M. Hirschthal. il Eng N 92:397 Mr 6 '24
Concrete waterproofing; abstract. Am Inst Arch J 12:99-100 F '24
Determination of water imperviousness or water permeability of cements. E. Anderson. diags Concrete 26:195-7 Je '25

WATERPROOFING—*Continued*
Integral waterproofings for concrete. A. H. White. diags Am Inst Chem Eng Trans v 14: 345-62; Discussion. 362-4 '21-'22
Making concrete basements dry. diags Concrete 26:59-61 F '25
Multiple-arch dam at Gem lake on Rush Creek, California; frost action. F. O. Dolson and W. L. Huber. il diags plans Am Soc C E Pro 51:1310-32; Discussion. J. Y. Jewett. 1453-5 S '25
New proofing process for fabrics and metals. E. Cook. Chem Age (Lond) 13:280 S 12 '25
Putting rubber latex to new uses. R. Ditmar. Chem & Met Eng 30:474 Mr 24 '24
La question de l'étanchéité du béton; son imperméabilisation au moyen du "watproof." O. Sifferlen. Génie Civil 86:143-4 F 7 '25
Report of committee D-8 on waterproofing materials. Am Soc T M Pro 24 pt 1:618-23 '24
Report of committee E-7, on waterproofing. Am Concrete Inst Pro 20:641-7 '24
Some special properties of aluminum paint. J. D. Edwards and R. I. Wray. Ind & Eng Chem 17:639-40 Je '25
United States government master specification for asphalt for mineral-surfaced roofing. diags U S Bur Stand Circ 159:1-10 '24
United States government master specification for asphalt for waterproofing and damp proofing. diags U S Bur Stand Circ 160:1-9 '24
United States government master specification for asphalt primer for roofing and waterproofing. U S Bur Stand Circ 162:1-7 '24
United States government master specification for coal-tar pitch for waterproofing and damp proofing. diags U S Bur Stand Circ 155:1-11 '24
United States government specification for asphalt-saturated rag felt for roofing and waterproofing. U S Bur Stand Circ 161:1-5 '24
United States government specification for coal-tar saturated rag felt for roofing and waterproofing. U S Bur Stand Circ 156:1-4 '24
Use of hydrated lime with Portland cement. J: W. Ramsey. Arch Forum 40:125-8 Mr '24; Same. Eng & Contr (Bldgs) 63:434-8 F 25 '25
L'utilité d'isoler les murs de leurs fondations par des matériaux imperméables. Génie Civil 83:649-50 D 29 '23
Waterproofing a 525x75 ft. roof terrace. R. R. Yates. il diags Eng & Contr (Bldgs) 60: 1141-4 N 28 '23
Waterproofing a reinforced-concrete highway bridge. il Eng N 95:191 Jl 30 '25
Waterproofing agent for leather. Chem Age 32:151 Mr '24; Same abr. Chem & Met Eng 29:935 N 19 '23
Waterproofing of railroad bridges. G. A. Haggander. diags W Soc E J 30:260-74 Je '25; Same cond. Ry R 76:156-7, 161-4 Ja 17 '25; Abstract. Ry Age 78:239-40 Ja 17 '25
Waterproofing processes for preservation of masonry walls. Eng & Contr (Bldgs) 60: 1153-4 N 28 '23
Waterproofing stone. Concrete 26:33 Ja '25
Waterproofing Waltham's (Mass.) concrete standpipe. G: C. Brehm. il N E Water Works Assn J 38:297-300 S '24
Weatherproofing of gypsum block. Concrete 26:137-8 Ap '25; Same. Am Arch 127:436 My 6 '25
Wet cellars made dry. W: V. Fitzgerald. diag Bldg Age 46:87+ Je '24

See also Corrosion and anti-corrosives; Wood preservation

Bibliography

Bibliography relating to soil alkalies; waterproofing of concrete. F. V. King, G. Ervin and O. L. Evans. U S Agric Bul 1314:33-7 '25

Testing

Exposure tests on colorless waterproofing materials. D. W. Kessler. il U S Bur Stand Tech Pa 248:1-33 '24; Abstract. Am Inst Arch J 12:207-10 Ap '24
Method of testing board for moisture-proofness. A. R. Harvey. il Tech Assn Pa ser 7:84-6 Je '24; Same. Paper Tr J 78:50-2 Je 26 '24

WATERPROOFING of paper
Colloid paper process. Paper 34:1011 S 18 '24
New moistureproof board invented by Dr Kress. Paper 34:895 S 4 '24
Testing waterproofed paper. F. T. Carson. il Paper Tr J 79:48-50 S 4 '24
Waterproofing paper and board. J. Frere. Paper 34:891-5 S 4 '24

WATERPROOFING of textiles
Penetrometer and its importance in determining the water resistance of fabrics. N. N. Wosnessensky. diags Am Dyestuff Rep 13: 781-3+ D 1 '24
Waterproofing of fabrics. D. Anthony-Langsdale. Textile Inst J 15:P598-602 D '24; Abstracts. Chem Age (Lond) 11:597 D 13 '24; Soc Dyers & Col J 41:147-8 Ap '25
Waterproofing of textile fabrics. T. W. Wolfson. diag Chemicals (Dyestuffs sec) 17:125-7 N 9 '25
Waterproofing textile fabrics. H. P. Pearson. 112p Chemical catalog co. '24

WATERSHEDS
Care of large watersheds. F: I. Winslow. N E Water Works Assn J 37:385-90; Discussion. 390-1 D '23
Merrimack river storage improvements. A. T. Safford. map Textile World 67:1267+ F 14 '25
Method of making a sanitary survey and census of a water shed. diag Eng & Contr (W W) 61:771-2 Ap 9 '24
Progress report of committee no. 5 on watershed protection. Am Water Works Assn J 11:613-27 My '24
Protection of the watershed of Beaver river in Pennsylvania. C. L. Siebert. Am Water Works Assn J 11:624-7 My '24; Same. Eng & Contr (W W) 61:1319-20 Je 11 '24
Sanitation on the Catskill watersheds. T. Merriman. Am Water Works Assn J 13:11-14 Ja '25; Same. Eng & Contr (W W) 61:1317-18 Je 11 '24
Watershed protection. Pub Works 56:321-3 S '25
Watershed protection, Altoona, Blair county, Pa. J. W. Fortenbaugh. Am Water Works Assn J 11:622-4 My '24; Same. Eng & Contr (W W) 61:1322-3 Je 11 '24

WATERTOWN, New York

Water supply

Filtration improvements at Watertown, N.Y. F. H. Jennings. Eng & Contr (W W) 63: 121-2 Ja 14 '25; Same. N E Water Works Assn J 39:68-70 Mr '25

WATERWAYS
Harbours and waterways in 1923. Engineer 137:75-7 Ja 18 '24
Harbours and waterways, 1924. Engineer 139: 37-9 Ja 9 '25
Inland waterway transportation abroad. E. C. Plummer. Marine Eng 29:604-5 O '24
Wasserkräfte an wasserstrassen. Gleichmann. diags Zeit Ver Deutsch Ing 68:1209-13 N 22 '24
Waterway and railway equivalents. W: M. Black. Am Soc C E Pro 50:837-51 Ag '24; Discussion. 50:1596-7; 51:306-28, 898-9 D '24, F, My '25

See also Canals; Channels; Lakes; River traffic; Rivers; *also* names of canals, lakes and rivers, e.g. Great Lakes; Panama canal; St Lawrence river; *also* National coast anti-pollution league

Costs

Cheapness justifies waterway transportation. C. W. Kutz. Ry Age 78:1139-41 My 9 '25
Waterway transportation uneconomic. F. H. Alfred. Ry Age 78:1141-2 My 9 '25

Canada

See Canals—Canada; St Lawrence river; Welland ship canal

WATERWAYS—*Continued*

France

Le Congrès national de navigation intérieure (Lille, 30 juin-4 juillet 1924). A. Pawlowski. map Génie Civil 85:116-18, 133-7 Ag 2-9 '24
Congrès national de la navigation intérieure et de l'aménagement des eaux (Grenoble et Lyon, 16-22 juillet 1925). A. Pawlowski. Génie Civil 87:213-15, 230-3 S 5-12 '25

Germany

Truth about Germany's industrial revival. P. Dawson. Ind Management 70:58-9 Jl '25

See also Rhine river

Illinois

See Illinois waterway

Indiana

Utilizing the streams of Indiana. R: Lieber. Am Water Works Assn J 13:521-5 My '25

Southern states

Waterways and harbors of the South. S. A. Thompson. il map Manuf Rec 86:230-9 pt 2 D 11 '24

Spain

See Canals—Spain

United States

Coastal canal situation. J. H. Moore. Manuf Rec 88:99 N 5 '25
Co-ordination of rail and water transportation recommended by Chamber of commerce committee. Ry Age 75:963-5 N 24 '23; Ry R 73:759 N 24 '23
Development of water resources of prime importance to country's progress. Manuf Rec 88:73-4 O 22 '25
Inland water transportation in the United States. U S Bur For & Dom Com misc ser 119:1-95 '23
Lakes pay U. S. large dividends; freight carrying cost on waterways. L. C. Sabin. il Marine R 55:1-6 Ja '25
Our harbors and inland waterways. F. A. Collins. 295p Century co. '24
War department approves river, harbor allotments. Eng N 93:32 Jl 3 '24
Water-borne commerce of the Chicago region and its requirements. E. O. Griffenhagen. flow chart il map W Soc E J 30:185-203 Ap '25

See also Canals—United States; Great Lakes; Illinois waterway; Mississippi river; New York state barge canal; St Lawrence river; Tennessee river

Bibliography

Source material on waterways. S. A. Thompson. Special Lib 16:49-51 F '25

WATERWORKS

Additional mountain water supply for Flagstaff, Ariz. R. L. Baldwin. il map Eng N 93:496-7 S 25 '24
Additional water supply for Pottsville water company, Pottsville, Penn. N. J. Beisel. il diags N E Water Works Assn J 39:47-67 Mr '25
Additions to New England water works plants. A. Hazen. N E Water Works Assn J 37:233-40; Discussion. 240-1 S '23; Same. Eng & Contr (W W) 60:1023-7 N 14 '23
Boone water supply. C. L. Ehrhart. Am Water Works Assn J 13:526-30 My '25
Bristol waterworks; Cheddar supply. A. M. Paterson. map Engineer 137:637 Je 6 '24; Same. Engineering 119:449-50 Ap 10 '25
Cellular cofferdam at Missouri river plant. E: E. Wall. il diag plan Eng & Contr (G C) 64:623-7 S 16 '25
Chatham waterworks report. Can Eng 48:306 Mr 10 '25
Dam floods Danville water-works requiring replacement. P. Hansen. il diags map Eng N 94:636-7 Ap 16 '25
Description of Pittsburgh water works. E. E. Lanpher. Am Water Works Assn J 10:1027-34 N '23
Description of water supply of city of Syracuse, New York. M. B. Palmer. N E Water Works Assn J 38:226-31 S '24
Development of the Charlotte water works. W. E. Vest. Am Water Works Assn J 13:655-60 Je '25
Economics in water-works engineering. R. O. Wynne-Roberts. il Can Eng 48:303-6 Mr 10 '25; Same. Am Water Works Assn J 14:226-34 S '25; Discussion. A. K. Grimmer. Can Eng 48:338 Mr 24 '25
Electric light and water utilities for French Lick and West Baden, Indiana. C: Brossman. Munic Eng 67:111-16 Mr '24
Extension to Duncan water works system. H. C. Mann. il plan Can Eng 46:515-16 My 13 '24
First American water systems. Eng & Contr (W W) 62:1091 N 12 '24
Fresno city water corporation. E. K. Barnum. Am Water Works Assn J 13:81-90 Ja '25
Garza dam for Dallas water-works will impound 63 billion gallons. il diags map plans Eng N 94:630-3 Ap 16 '25
Hendersonville, N.C., gravity water supply system. S. H. Wright. Am Water Works Assn J 11:860-4 Jl '24
How a town of 10,000 revamped its waterworks; Monmouth, Ill. H. A. Tolburg. il diag Eng N 94:656-8 Ap 16 '25
How Jonesborough started its water works. B. C. Little. Am Water Works Assn J 14: 1-10 Jl '25; Same. Eng & Contr (W W) 63: 1283-8 Je 10 '25
Improvements to water works system, Regina. J. W. E. Farrell. il plan Can Eng 48: 393-5 Ap 14 '25
Jharia waterworks. il diags map plan Engineer 138:721-4 D 26 '24
Manual of American water works practice to be undertaken. Am Water Works Assn J 12: 267-71 N '24
Memphis new waterworks. F. G. Cunningham. il diag plans Pub Works 54:371-4; 55:13-14 D '23-Ja '24
Municipal water supply problems of Atlanta, Georgia. P. H. Norcross. il diags plans map Am Soc C E Pro 51:969-98 Ag '25; Discussion. J. N. Chester and N. Wingfield. 51: 1856-60 N '25
Municipal water works system, Montreal. C. J. Desbaillets. Can Eng 48:300-2 Mr 10 '25
New gravity water supply for Staunton, Va. L. H. Williamson. Eng N 94:803 My 14 '25; Discussion. 95:113-14 Jl 16 '25
New gravity water supply for Whitehall, N.Y. J. P. Wells. il map Eng N 95:344-5 Ag 27 '25
New gravity water supply in use at Charlottesville, Va. L. H. Williamson. Eng N 94:689 Ap 23 '25
New water supply system of Memphis, Tenn. F. G. Cunningham. il Eng & Contr (W W) 61:773-80 Ap 9 '24
New waterworks in Guernsey. il Engineer 138:663 D 12 '24
New Wheeling, W. Va., water works. J. F. Laboon. il Am Water Works Assn J 13:265-79 Mr '25; Same. Eng & Contr (W W) 64: 86-93 Jl 8 '25
Novel cooling pond. E. J. Rowe. plans Am Water Works Assn J 13:619-21 Je '25; Same. Eng & Contr (W W) 64:69-71 Jl 8 '25
Novelties in the new water filters at Windsor, Ontario. il Eng N 94:655 Ap 16 '25
Operating features of the Gary, Indiana, water works. W. Luscombe. Munic & Co Eng 66: 155-9 Ap '24; Excerpt. Eng & Contr (W W) 61:788 Ap 9 '24
Operating headquarters of the Philadelphia water-works. S. M. Van Loan. il plan Eng N 92:196-7 Ja 31 '24
Orlando water and light plant. W. W. Mathews. il Pub Works 56:197-201 Je '25
Planning municipal water works system. Can Eng 46:636-8 Je 24 '24
Plugging a high pressure tunnel, Buffalo filter plant. C. S. Rindsfoos. diag plan Eng N 94:641-3 Ap 16 '25
Recent water developments at Memphis. J. R. McClintock. il plans Am Water Works Assn J 10:1056-71 N '23

WATERWORKS—*Continued*

Reinforcing the water supply of Horton, Kansas. N. T. Veatch. il Eng N 94:931-2 Je 4 '25

Small water purification plant for Jacksonville, Texas. H. N. Roberts, jr. il plan Eng N 92: 859-60 My 15 '24

Some problems of Cedar Rapids water works. H. F. Blomquist. Am Water Works Assn J 11:476-9 Mr '24

Sources of supply, conduits and reservoirs, of the Rochester, N.Y., water-works system. J: F. Skinner. il N E Water Works Assn J 38:219-25 S '24

Substructure plan and design; Buffalo filter plant. il diags plans Eng N 94:322-4, 358-62 F 19-26 '25

Water filtration plant at Chippawa. G. G. Reid and D. H. Fleming. il diag plan Can Eng 48:285-7+ Mr 10 '25

Water supply development in small cities. C. M. Ladd. Am Water Works Assn J 14:337-41 O '25; Same. Can Eng 49:145-6 Jl 21 '25; Discussion. Am Water Works Assn J 14: 341-2 O '25

Water supply problem in relation to the future Chicago; plan build combined filter plants and recreation piers. J: Ericson. il diags plan W Soc E J 30:125-39; Discussion. 139-41 Ap '25

Water supply to the smaller provincial towns of Egypt. R. H. L. Pennell and H. Addison. Engineering 118:735-6 N 28 '24

Water works extensions, Hanover, Ont. il diag plan Can Eng 48:245-7 F 24 '25

Water-works improvements at Kearney, Neb. E. L. Ferguson. il Eng N 94:884-5 My 28 '25

Water-works improvements at Wheeling, West Virginia. J. F. Laboon. il diags plan Eng N 92:848-50 My 15 '24

Waterworks plans for New Jersey municipalities. Pub Works 56:374-5 O '25

Water works pumping stations; general principles of design. C: B. Burdick. il Am Water Works Assn J 11:358-80 Mr '24

See also Aqueducts; Dams; Filters and filtration; Fire service (water supply); Hydrants; Intakes; Pumping stations; Pumps; Reservoirs; Sanitary districts; Standpipes; Water conduits; Water distribution; Water pipes; Water purification; Water supply; Water supply engineering; Water waste

Accounting

Cost system for water works in large towns and small cities. E. E. Peacock. Am Water Works Assn J 11:797-807 Jl '24; Same abr. Eng & Contr (W W) 62:373-6 Ag 13 '24

Uniform classification of accounts for water utilities (classes A and B). 103p Railroad commission of Wisconsin, Madison '24

Up-to-date water works accounting system. C. M. Crowley. Eng & Contr (W W) 63: 1279-82 Je 10 '25

Water works accounting system of Charleston, S. C. E. E. Evans. Eng & Contr (W W) 60:1050-1 N 14 '23

Bibliography

Abstracts of water works literature. F. Hannan. Published in monthly numbers of Journal of the American water works association

Cost of construction

Cost of 48 in. and 36 in. mains at New Bedford, Mass. and water mains at Columbus, O. Eng & Contr (W W) 61:1060 My 14 '24

Examples of how local conditions affect cost of construction of water works. R: Messer. Eng & Contr (W W) 61:379 F 13 '24

Merritton and Thorold water supply. Can Eng 48:605-6 Je 23 '25

Rehabilitation of small 30-year-old waterworks plant. F. M. Veatch. il Eng N 94: 658-9 Ap 16 '25

Costs

Columbus waterworks notes. Pub Works 56: 249 Jl '25

Prices of waterworks and other materials month by month. D. H. Maury. Eng & Contr (W W) 61:1039-43 My 14 '24

See also Pumping—Cost

Damage from storms, etc.

Sandusky water-works quickly put in service after tornado. Eng N 93:191 Jl 31 '24

Electric equipment

Electricity and water filtration. H. H. Dunn. il Elec W 85:503-5 Mr 7 '25

Equipment and supplies

British Empire exhibition; waterworks appliances. il diags Engineering 117:783-6, 814-16 Je 20-27 '24

Luxuries of yesterday are the necessities of today. C. C. Behney. N E Water Works Assn J 38:294-6 S '24

Machines and equipment for supplying man's oldest necessity—water. T. S. Dayton. il Dun's Int R 45:48-51 Ag '25

Portable air compressors in water works service. il Eng & Contr (W W) 61:1046-7 My 14 '24

Use of portable air compressor on water works distribution system. F. C. Amsbary. Am Water Works Assn J 11:86-7 Ja '24

Specifications

Progress report of committee no. 12 on testing of water works materials and supplies; specifications. Am Water Works Assn J 11: 663-76 My '24

Report of committee 12, on testing of water works materials and supplies. Am Water Works Assn J 14:38-59 Jl '25

Finance

Are deposits demanded where water is furnished by meter? if so, how much and does the company or department pay interest? Am Water Works Assn J 11:177-90 Ja '24; Excerpts. Eng & Contr (W W) 61:343-6 F 13 '24

Establishment of a metropolitan district in Baltimore county contiguous to Baltimore city, Maryland. V. B. Siems. map N E Water Works Assn J 38:250-6 S '24

Financial status of water works in the United States as of January 1, 1924. L. Metcalf. Am Water Works Assn J 13:375-403 Ap '25; Excerpt. Eng N 94:771 My 7 '25

Financing main pipe extensions by the assessment method. C. M. Saville. N E Water Works Assn J 39:185-94 S '25; Same, without appendix. Eng & Contr (W W) 64:859-64 O 14 '25; Abstract. Eng N 95:471 S 17 '25; Discussion. N E Water Works Assn J 39:194-203 S '25

Financing municipal water supply enterprises. T. N. Waddell. N E Water Works Assn J 38:321-6 D '24

Financing municipal water supply extensions. C. M. Saville. diag Am Water Works Assn J 11:38-64; Discussion. 64-71 Ja '24

Financing service and supply main extensions by local assessment. P. Diederich. Eng & Contr (W W) 61:77 Ja 9 '24

Financing water main extensions. H. F. Blomquist. Am Water Works Assn J 11:789-92 Jl '24; Same. Eng & Contr (W W) 60: 1045-6 N 14 '23

Fire protection service of the water department: should it be paid from water rates or general tax fund? Am Water Works Assn J 11:203-8 Ja '24

How the Terre Haute (Ind.) water co. handles its billing and collecting. D. R. Gwinn. Eng & Contr (W W) 61:342 F 13 '24

Increase of available water supply with no capital investment. F: E. Beck. N E Water Works Assn J 38:232-6 S '24; Same. Eng & Contr (W W) 63:329-32 F 11 '25

Managing a publicity campaign for a waterworks bond issue. J. F. Laboon. Eng N 93:12 Jl 3 '24

Massachusetts laws relating to the financing of municipal water works. N E Water Works Assn J 38:342 D '24

WATERWORKS—Finance—*Continued*
Metering the water supply of the city of Chicago. H: A. Allen. il charts map W Soc E J 29:379-400 O '24; Same cond. Eng & Contr (W W) 63:517-25, 751-60 Mr 11, Ap 10 '25; Discussion. W Soc E J 29:400-4 O '24
Metropolitan water supply systems. M. Knowles and J: A. Fulkman. Am Water Works Assn J 13:601-12 Je '25
Pasadena has 49 per cent increase of net operating revenue of water department. Eng & Contr (W W) 61:766 Ap 9 '24
Report on universal metering for the city of Chicago. D. H. Maury and Gordon. Eng & Contr (W W) 64:567-74 S 9 '25
Service pipes; who pays for installing, repairing and maintaining? Am Water Works Assn J 11:268-75 Ja '24
Users advance money for small-town water extensions. J. G. Thorne. Eng N 94:653 Ap 16 '25
Water works information; water rates in 234 American cities. F. C. Jordan. Am Water Works Assn J 12:87-99 S '24
Why the applicant should pay the actual cost of service installation from street main to meter; symposium. N E Water Works Assn J 38:135-43 Je '24; Same. Eng & Contr (W W) 62:565-70 S 10 '24

See also Water rates

Grounds

Beautifying water works properties. C. S. Denman. il (fold pl) Am Water Works Assn J 14:289-94 O '25; Same. il Eng & Contr (W W) 64:338-42 Ag 12 '25

Laboratories

Laboratory control in water purification. J. J. Hinman, jr. Can Eng 46:517-19 My 13 '24; Same. Munic Eng 67:120-5 Mr '24

Laws and regulations

Act relative to the collection of water rates. N E Water Works Assn J 37:317-18 S '23
Court holds water company liable for typhoid death. G. D. Andrews. Eng N 92:814-15 My 8 '24
Discussion of health laws relating to public water supplies. A. D. Weston. N E Water Works Assn J 38:333-41 D '24
Installation of check valves on water services. C. B. Jackson. Eng & Contr (W W) 61:100-2 Ja 9 '24
Massachusetts general health laws relating to water supply. N E Water Works Assn J 38:353-439 D '24
Typhoid, water supply, carriers and the courts. J. A. Tobey. Eng N 93:495-6 S 25 '24

See also Water—Standards

Management

Advance placement of services. Am Water Works Assn J 12:351-2 N '24
Are consumers allowed to do plumbing for themselves? if so, how is the department or company to keep records where service is on a flat rate basis? Am Water Works Assn J 11:191-6 Ja '24
Billing and collecting methods. E. R. Prentice. Am Water Works Assn J 13:39-41 Ja '25; Same. Eng & Contr (W W) 63:319-20 F 11 '25
Charleston waterworks notes. Pub Works 56: 57-8 F '25
Collection and daily publication of meteorological data by the water department. S. G. Highland. Am Water Works Assn J 10:1021-6 N '23
Collection of costs for external damages to water system. O. E. Clemens. Am Water Works Assn J 13:42-4 Ja '25; Same. Eng & Contr (W W) 63:298-9 F 11 '25
Dry weather conditions causing shortage of water; emergency measures used to meet such conditions. Am Water Works Assn J 12:340-3 N '24
Estimating bills. W. C. Hawley. Am Water Works Assn J 10:992-7 N '23
Handling the water consumer. O. H. Bissell. Eng & Contr (W W) 62:347-9 Ag 13 '24
Improved water supply for Chicago and the relation of metering to service. J: Ericson. W Soc E J 29:371-8 O '24; Excerpts. Eng & Contr (W W) 63:1292-5; Discussion. M. E. Adams. 1295-6 Je 10 '25
Installing services for vacant lots in advance of paving. Eng & Contr (W W) 61:1044-5 My 14 '24
Leakage warning on back of water bill. Eng & Contr (W W) 61:1269 Je 11 '24
Municipal team work. F. C. Jordan. Am Water Works Assn J 10:973-8 N '23
New Bedford waterworks notes. Pub Works 55:146 My '24
One of the oldest private water-works taken by the city; Morristown, N.J. Eng N 91:1010 D 20 '23
Quality too often an overlooked factor in water-works operation. L. A. Geupel. Eng N 93:513-14 S 25 '24
Responsibility of the water works superintendent. J. Z. Martin. Eng & Contr (W W) 61:369-71 F 13 '24
Rochester's (New York) meter-reading and billing system. S. B. Story. N E Water Works Assn J 39:71-3 Mr '25; Same. Eng & Contr (W W) 63:1248-9 Je 10 '25; Discussion. N E Water Works Assn J 39:74-8 Mr '25
Securing harmony in operation of filter plants. C. A. Brown. Eng & Contr (W W) 62:1057-60 N 12 '24
Supervision of water treatment plants in Michigan. E: D. Rich. Eng N 92:73 Ja 10 '24
Underground water waste detection in New York city. F. B. Nelson. Eng & Contr (W W) 61:1289-96 Je 11 '24
Water department as a public utility controlled by a water board as opposed to its reorganization under the control of a director or Board of public works. Am Water Works Assn J 13:471-5 Ap '25
Water department as a self-controlled utility. V. B. Siems. Eng N 94:147-8; Discussion. 138-9 Ja 22 '25
Water works distribution systems. W. E. Macdonald. Can Eng 46:306-8+ Mr 4 '24; Excerpts. Eng & Contr (W W) 62:584-6 S 10 '24
Well-managed private water plant at Lexington, Kentucky. il Eng N 95:62-3 Jl 9 '25

See also Water meters

Public relations

Publicity at the water plant. J. J. Hinman, jr. Am Water Works Assn J 13:201-6 F '25; Same. Eng & Contr (W W) 63:545-8 Mr 11 '25

Records

Co-ordinating water-works records. H. F. Huy. Eng N 93:515-16 S 25 '24
Location records of water services. Am Water Works Assn J 11:251-3 Ja '24
Operation records for small water works. E. L. Waterman. Am Water Works Assn J 11:819-23 Jl '24; Same. Eng & Contr (W W) 60:1007-8 N 14 '23; Same. Can Eng 46:521-2 My 13 '24
Standard report sheets for small filters. Eng N 94:654 Ap 16 '25

Statistics

Filtration plant census, 1924. Am Water Works Assn J 14:123-42 Ag '25
Public water supplies of small cities and towns in Virginia. R: Messer. Eng & Contr (W W) 61:378 F 13 '24
Statistics of Massachusetts water supplies. N E Water Works Assn J 38:144-97 Je '24
Water works and sewer contracts awarded during the last 58 months. Eng & Contr (W W) 62:1256 D 10 '24 [continued monthly]
Water-works installation this year and last. Eng N 91:869 N 22 '23
Water works mains laid in 1922. Pub Works 55:95-6 Mr '24
Water works statistics for 1923. Pub Works 55:161-5, 294-6 My, S '24
Water works statistics for 1924. tables Pub Works 56:135-49, 222 Ap, Je '25

WATERWORKS—*Continued*

Valuation

Depreciation rate for water works structures and equipment. Eng & Contr (W W) 61: 1309 Je 11 '24

Middle cost method of determining value. W. D. P. Warren. Munic & Co Eng 68:271-6 Je '25

Valuation of water works for municipal purchase. E. E. Bankson. Am Water Works Assn J 13:505-14; Discussion. 514-20 My '25

WATT, James, 1736-1819

Famous machinists of history. H. H. Manchester. por Am Mach 61:264 Ag 14 '24

James Watt's workshop in the Science museum. E. C. Smith. il Power 62:672-3 N 3 '25

Watt's workshop at Heathfield-Hall. il Engineer 140:114 Jl 31 '25

WATT hour meters

Connection check for polyphase watthour meters. D. T. Canfield. Purdue U Eng Ext Serv Bul 8:1-25 [bibliog. p. 25] '24

Mechanical, electrical difficulties discussed at American mining congress. il Coal Age 27: 820 Je 4 '25

Meters used as reverse-current relays. Elec W 86:417 Ag 29 '25

Polyphase watthour meter also shows power factor. il Power Pl Eng 29:266 F 15 '25

Precision watthour meters and high-frequency measurements; report of A.I.E.E. committee. Am Inst E E J 44:967-8 S '25

Savings in village lighting. il Textile World 66:1281+ S 6 '24

Temperature errors in induction watthour meters; an analysis and the development of a temperature-sensitive magnetic material suitable for compensation. I. F. Kinnard and H. T. Faus. Am Inst E E J 44:241-8 Mr '25; Discussion. 44:523-5, 1021-2 My, S '25

Der ungebremste amperestundenzähler als watt-stundenzähler; abstract. O'Keenan. Elektrotech Zeit 45:13 Ja 3 '24

Use of watthour meters. W: Lamont. Min Cong J 11:330-1 Jl '25

Will these watt-hour meters read alike? diags Ind Eng 83:542-3 N '25

Testing

Testing for rotation of watt-hour meters. F. C. De Weese. diags Power Pl Eng 28:440-1 Ap 15 '24

Testing polyphase watt-hour meters. W. F. Walsh. il diags Power 61:910-12; 62:399-402 Je 9, S 15 '25

Testing single-phase induction watt-hour meters. W. F. Walsh. il diags Power 60: 687-9 O 28 '24

WATTMETERS

Checking three-phase wattmeter connections. H. D. Fisher. diag Power 60:261 Ag 12 '24

Checking three-phase wattmeter connections. V. K. Stanley. diags Power 59:996 Je 17 '24

Dynamometer wattmeter. B. Hague. Electrician 92:96-7 Ja 25 '24

General Electric portable curve-drawing polyphase wattmeter. il Am Mach 63:757 N 5 '25

High-voltage wattmeter. P. C. Clark and C: E. Miller. il diags Am Inst E E J 43:1009-13 N '24; Discussion. 44:513-22 My '25

Michigan rules on wattmeter installations. Elec W 82:1327-8 D 29 '23

New precision wattmeters. il Electrician 92: 292+ Mr 7 '24

Power measurements at high voltages and low power factors. J. S. Carroll, T: F. Peterson and G: R. Stray. il diag Am Inst E E J 43:941-4 O '24; Discussion. 44:513-22 My '25

Power measurements with the wattmeter. il diags Power Pl Eng 29:75-8 Ja 1 '25

Some features and improvements on the high-voltage wattmeter; description of a high-voltage voltmeter and a crest voltmeter. J. S. Carroll. il plan Am Inst E E J 44:943-8 S '25; Discussion. 45:61-2 Ja '26

Three-phase balanced load wattmeters. G. W. Stubbings. diags Electrician 92:692-3 Je 6 '24

Three-phase wattmeter connections. P. C. Jones. Am Inst E E J 43:356-60 Ap '24

Totalizing recording wattmeters. J: Liston. il diag Gen Elec R 28:41-2 Ja '25

WAVE length. See Light—Wave length

WAVE motion, Theory of

Ether and wave motion. diag Am Gas J 120: 481-2, 503-4 My 24-31 '24

WAVE motors

See Tide power

WAVE-POWER transmission. See Power transmission

WAVE theory of light. See Light, Wave theory of

WAVEMETERS

Dye standard multi-vibrator wavemeter. diags Engineering 119:727-9 Je 12 '25

Efficient and ever useful wavemeter; how to construct and operate one. R. E. Bogardus. il Wireless Age 12:54-5 Mr '25

Frequency-wavemeter. D. Underwood. il diag Radio N 6:1420+ F '25

Heterodyne wavemeter. J. Wood, jr. il diags Radio N 6:692-3+, 926-7+ N-D '24

How to make and use a wavemeter. L. W. Hatry. il diags Radio N 6:47+ Jl '24

Improved type of wave-meter resonance indicator. M. S. Strock. il diags U S Bur Stand Sci Pa 502:111-18 '25

Improvements in wave meters. Radio Serv Bul 84:16 Ap '24

Measurement of radio-frequency and wavelength; the N.P.L. multivibrator wavemeter. il diags Elec R (Lond) 95:351-2 S 5 '24

Methods of wavemeter calibration. M. Buchbinder. diags Wireless Age 11:65-6+ Ag '24

New Sullivan wavemeter. il diags Electrician 94:119-20 Ja 30 '25

Oscillating crystals for wavemeter calibration. R. G. Harris. diags Radio N 5:1418+ Ap '24

Simply constructed wavemeter. J. Riley. il diags Radio N 7:58+ Jl '25

Standard wavemeters of the Bureau of standards. E. L. Hall. il Sibley J 38:123-6+ My '24

WAVES

Effect of wind and waves on propulsion of ships. J. L. Kent. Marine Eng 29:536-42 S '24

Equation of long waves in canals of varying sections. N. Sen. Philos Mag 6th ser 48:65-78 Jl '24

Formation of waves. J. O. V. Irminger. Engineering 119:31 Ja 9 '25; Discussion. E. McGruer, jr. 119:133 Ja 30 '25

Reflexion of waves penetrating normally into a stratified medium. J. A. Wilcken. Philos Mag 6th ser 49:107-12 Ja '25

Resaca de Rio de Janeiro. R. Ryves. il plans Engineer 137:380-1, 388 Ap 11 '24

Water waves near the shore. H. Jeffreys. Philos Mag 6th ser 48:44-8 Jl '24

Waves and ripples in water, air, and æther. J: A. Fleming. 4th ed., rev. 299p Macmillan '23

Waves do serious damage at Rio de Janeiro. G: Schobinger. il map Eng N 93:1028-9 D 25 '24

Waves due to a single impulse in deep and shallow water. G: Green. Philos Mag 6th ser 47:183-96 Ja '24

See also Electric waves; Light; Radiation; Radio waves; Ships—Stability; Sound waves; Vibration

WAX coating of fabrics

Coating fabrics with wax; Dutton's patent. diag Color Tr J 16:59 F '25

WAXED paper. See Paper, Waxed

WAXED paper association, American. See American waxed paper association

WAXES

Chemical analysis of cotton; micro-analytical methods for the examination of small quantities of waxes, in particular cotton wax. R. G: Fargher and L. Higginbotham. bibliog Textile Inst J 15:T75-80 Mr '24

WAXES—*Continued*
Gums, waxes, shellac: market review. Oil Paint & Drug Rep 105:93-4 Mr 20 '24
Gums, waxes, shellac; market review. Oil Paint & Drug Rep 107:89-91 Mr 26 '25
See also Beeswax; Candelilla wax; Paraffin

Prices
Gums and waxes. Published in weekly numbers of Oil paint and drug reporter

WAYBILLS
Distribution and mailing of outgoing freight waybills in the Veri-direct method of moving package freight. C. G. Johnson. Ry Age 76: 1311-12 My 31 '24
Some causes of delay to loaded car movement. R. A. Munsch. il Ry R 74:681-3 Ap 12 '24; Abstract. Ry Age 76:788 Mr 22 '24

WEALTH
Did the war increase our national wealth? W. R. Ingalls. Iron Age 113:1417-18 My 15 '24
Estimating our national wealth. W: P. Helm, jr. Am Bankers Assn J 16:632+ Ap '24
Making of wealth. E. Benn. Chem Age (Lond) 10:570 My 31 '24; Same. Electrician 92:672 My 30 '24
Ownership of wealth. Index p 6-7 Ja '25; Econ W n s 29:155-6 Ja 31 '25
Present distribution of British wealth in respect of the forms of property held. C: E. Lyon. Econ W n s 27:10-11 Ja 5 '24
Relation of wealth to welfare. W: A. Robson. 176p Macmillan '25
Wealth as a criterion of character. Comm & Fin Chr 121:1841-2 O 17 '25
Wealth of the principal countries. Nat City Bank p 202-3 D '24
Who owns the United States? Silas Bent puts this question up to Walter R. Ingalls. Nation's Business 12:40-2 D '24
See also Capital; Cost of living; Economic conditions; Economics; Gifts; Income; Income tax; Money; Poverty

WEALTH, Ethics of
A man's life; sermon. S: S. Drury. Comm & Fin 14:2103-4 O 28 '25

WEATHER
Weather and construction. Eng & Contr (Bldgs) 62:1175-87 N 26 '24
Weather and outdoor construction. Eng & Contr (G C) 63:802 Ap 17 '25
Weather bulletin for the week. Published in weekly numbers of Commercial and financial chronicle
See also Atmospheric electricity; Atmospheric pressure; Atmospheric temperature; Fog; Humidity; Meteorology; Rain and rainfall; Snow; Thunderstorms; Winds

WEATHER forecasting
Les méthodes française et norvégienne de prévision du temps; abstract. P. Wehrlé. Génie Civil 86:543-4 My 30 '25
L'œuvre météorologique du navire-école Jacques-Cartier. E. Delcambre. Génie Civil 85:581-2 D 20 '24
Long-range weather forecasting. H. J. Browne. il Sci Am 131:82-3 Ag '24
Solar radiation and weather. H: H. Clayton. 64p Smithsonian institution, Washington, D.C. '25
Solar variation and forecasting. C. G. Abbot. 27p Smithsonian institution, Washington, D.C. '25
Static and weather forecasting. S. R. Winters. diag Radio N 7:612+ N '25

WEATHER forecasts
How the weather prophet can help. il map Bus Transportation 4:433-4 S '25
Making weather forecasts pay. Nation's Business 13:84+ N '25
See also Atmospheric temperature

Broadcasting
Distribution of weather forecasts, information, and warnings by radio in the South Atlantic ocean, Gulf of Mexico, and Caribbean sea. Radio Serv Bul 89:10-11 S '24
Distribution of weather information, forecasts, and warnings by radio for the benefit of navigation on Great Lakes. Radio Serv Bul 97:11-13 My '25
Instruction to Great Lakes radio stations for handling weather forecasts and reports of dangers to navigation. Radio Serv Bul 86: 11-13 Je '24
Radio now used to broadcast weather forecasts information. Radio N 6:760+ N '24
Taihoku meteorological observations, Formosa, Japan. Radio Serv Bul 92:9 D '24
Tempering the weather. S. R. Winters. Wireless Age 11:60-1+ Ag '24
La transmission des renseignements météorologiques; abstract. R. Bureau. Génie Civil 86:543 My 30 '25
We will now give the official weather forecast. F. Dashiell. il Radio N 6:900+ D '24

WEATHER vanes
Something unusual in a weather vane; a classic figure, twelve feet in height and made of copper. il Sheet Metal Worker 14: 781 N 9 '23

WEATHERPROOFING. See Waterproofing

WEATHERSTRIPPING
Air leakage around weather stripped windows. Y. Adams. Sanitary & Heat Eng 103:218-20 Ap 3 '25
Air leakage through the openings in buildings. F. C. Houghten and C. C. Schrader. il diags Am Soc Heat & V E J 30:121-34 F '24; Same. Am Arch 125:161-9 F 13 '24; Same. Arch Forum 40:sup69-72 Mr '24; Same. Sanitary & Heat Eng 101:163-6, 206-9 Mr 21-Ap 4 '24; Abstracts. Heat & Ven 21:54-7 F '24; Am Inst Arch J 12:153+ Mr '24
Further data on infiltration of air through building openings. C. C. Schrader. diags Am Soc Heat & V E J 31:1-4 Ja '25; Abstract. Heat & Ven 22:74-5 F '25

WEAVERS
Scientific methods of engaging weavers. W. Spielman. Textile Inst J 16:P317-20 O '25
Sections of the textile industry and coordination; weaving problems. J. H. Derbyshire. Textile Inst J 15:P1-4; Discussion. P4-5 Ja '24
Vocational selection and training of operatives for the weaving industry. J. A. Fraser. Textile Inst J 14:T542-8 D '23
See also Silk ribbon weavers

WEAVING
Filling handling. Textile World 66:1429+ S 13 '24
Foot-power loom weaving. E: F. Worst. 3d ed., enl. 275p Bruce pub. co., Milwaukee '24
Hand-loom weaving in India. Textile Inst J 16:P115-16 Ap '25
Increasing weave room production. Textile World 66:1125+ Ag 30 '24
Manufacture of textile fabrics—yarns to fabrics. J: Crompton. il Textile Inst J 15:P291-317; Discussion. P317-21 Ag '24
Marquisettes; successful method of weaving on plain looms. Textile World 66:365+ Jl 19 '24
Modern weaving shed operation. il Electrician 94:238 F 27 '25
Practical methods for weaving lenos. J: Reynolds. diag Textile World 66:2991+; 3453-4; 67:461+, 1977+ N 22, D 13 '24, Ja 24, Mr 21 '25
Preliminary operations of weaving. H. Nisbet. v. 2 286p Emmott & co., ltd., Manchester, England '24
Sections of the textile industry and coordination; weaving problems. J. H. Derbyshire. Textile Inst J 15:P1-4; Discussion. P4-5 Ja '24
Textile mill mechanical department. il diag Textile World 65:3807+ Je 7 '24
Three-end leno jacquard effects. il Textile World 65:3317+ My 17 '24
Visible management methods increase output. J. M. Cronin and H. F. Van Wye. il Textile World 67:3416-17 My 23 '25
Weaving. W. P. Crankshaw. 142p Pitman '24

WEAVING—*Continued*

Weaving with small appliances. L. Hooper. 71p Pitman '25

See also Basket making; Carpets; Lace and lace making; Linen weaving; Looms; Rugs; Silk manufacture and trade; Textile fabrics; Textile fibers; Woolen and worsted manufacture

History

Some aspects of linen weaving, ancient and modern. F. Anderson. il Textile Inst J 15: P348-70 Ag '24

WEBB-Pomerene act

Interpretation by Federal trade commission of provisions of Webb-Pomerene export trade act respecting formation of export association by silver producers. Comm & Fin Chr 119:649-50 Ag 9 '24; Same abr. Eng & Min J 118:224-5 Ag 9 '24

WEEDS

Combating weeds on Bamberger electric railway. E. O. Humphrey. diags Eng & Contr (Ry) 63:159-61 Ja 21 '25

Killing weeds with poison. il Elec Ry J 65: 884 Je 6 '25

Troubles with waterweed in open shallow reservoir. E. G. Ritchie. il Eng N 95:638-9 O 15 '25

See also Railroads—Weed removal

WEEK-end appeal. See Advertisements—Week-end appeal

WEIGHING

Accurate batch weighing equipment. il Chem & Met Eng 31:196 Ag 4 '24

Conveyor weighing in industry. il Management & Adm 7:544 My '24

Les pesage des marchandises par le jaugeage des bateaux. Génie Civil 85:238-9 S 13 '24

Recording coal and ash weights while conveying; Messiter conveyor scale. il Power Pl Eng 29:1029 O 1 '25

Tools of the chemical engineer. D. H. Killeffer. il Ind & Eng Chem 16:568-71 Je '24

Using lever to find weight of heavy machine parts. D. A. Hampson. diag Ind Eng 83: 151 Mr '25

Weighing moving sheet material. diag Chem & Met Eng 31:314 Ag 25 '24

See also Balances; Scales; Track scales

WEIGHING machines

Weighing in bulk. S. H. Johnson. diags Ind Management (Lond) 10:366-70; [cont. as] Cassier's Ind Management 11:22-6, 54-5 D 27 '23-Ja 24 '24

See also Balances

WEIGHTS and measures

Conversion tables of foreign and domestic weights, measures and moneys. J: J. Macfarlane. 7th ed., rev. & enl. 105p Philadelphia Foreign trade bur., Philadelphia commercial museum '24

Factors for computing the volumes of cylindrical and rectangular vessels. E. F. Hickson. Chem & Met Eng 31:667-O 27 '24

Origin and the merits of some of the units of measurement in common use. J. C. Christie. Inst E E J 62:47-50 D '23

Standards of measure. S. S. Dale. Soc Auto Eng J 16:580 Je '25

See also Balances; Castings—Weight; Electric measurement; Gages; Gaging; Measuring instruments; Mensuration; Meters; Metric system; Petroleum—Measurement; Scales; Specific gravity; Standards of length; Weighing machines; Wood measurement

WEIRS

Analysis of the weir coefficient for suppressed weirs. C: W: Harris. Wash U Eng Exp Sta Bul 22:1-21 '23; Review, by R. E. Horton. Eng N 93:470-1 S 18 '24

Ashford falling shutters for barrages. il diags Engineering 120:442-4 O 9 '25

Design of works on open channels. F. V. Elsden. il diags Engineer 137:440-2 Ap 25 '24

Discharging capacity of weirs. Can Eng 46: 578 Je 3 '24

Regulation of the Murray river; Torrumbarry weir. il diags Engineering 119:532-5, 546, pl 34 My 1 '25

Rolling and sector gates for hydro plants. C. N. Anderson. il diag Elec W 84:21-2 Jl 5 '24

Semi-circular weirs calibrated at Purdue university. F. W. Greve. diags Eng N 93:182-3 Jl 31 '24; Discussion. F. A. Nagler. 93:804 N 13 '24

Weir flow; abstract. D. Smith and W: J. Walker. diag Mech Eng 45:706 D '23

WELDING

American welding association annual meeting, New York, April 23-26. Automotive Ind 50: 1036-7 My 8 '24

Autogenous or fusion welding on locomotive boilers. A. G. Pack. Ry Mech Eng 98:498-9 Ag '24

Autogenous welding. J. Grine. il Ry Mech Eng 98:562 S '24

Automatic welding machines developed by the Milwaukee tank works, inc. il Iron Age 114: 330 Ag 7 '24; Iron Tr R 75:802-3 S 25 '24

Die beeinflussung der schweissbarkeit des flusseisens durch zusätze von elementen, die mit dem eisen mischkristalle bilden. P. Hahn. il Stahl & Eisen 45:7-9 Ja 1 '25

Compromise joint plates made by welding shims to angle bars. diag Elec Ry J 63:619 Ap 19 '24; Same. Eng & Contr (Ry) 62:389-90 Ag 20 '24

Developments in aluminothermic welding. Ry Mech Eng 97:849-50 D '23

Experience with autogenously welded air receiver. diags Eng N 92:252, 462 F 7, Mr 13 '24

Fusion welding. C. B. Bellis. Chem & Met Eng 30:17 Ja 7 '24

Gas holder lifts welded together. il Eng N 93:876 N 27 '24

Gas welding. S. W. Miller. Iron Age 113:1361-2 My 8 '24

Is the steel riveter doomed? il Sci Am 132: 114 F '25

Locomotive frame welding. A. F. Dillon. Am Mach 60:396 Mr 13 '24

Making large size hammer-welded pipe. G: F. Tegan. il diags plan Iron Age 114:1263-8 N 13 '24

Many automotive production problems solved by welding processes. P. M. Heldt. il diags Automotive Ind 53:506-11 S 24 '25

Methods of welding inspection reviewed at welding society's annual meeting. Iron Age 115:1337+ My 7 '25

No leaks in welded tanks. T. C. Fetherston. Pet Age 15:58 Ap 1 '25

Notched welds in rail head. diag Elec Ry J 64:316-17 Ag 30 '24; Same. Eng & Contr (Ry) 62:837-8 O 15 '24

Notwendige arbeiten der schweisstechnik. Füchsel. Zeit Ver Deutsch Ing 69:1131-2 Ag 29 '25

One man reclaims a ton of castings a day. Factory 32:928+ Je '24

Pipe welding at Westport station. il Power 61:904-5 Je 9 '25

Possibilities and limitations of fusion welding. il Ry Age 75:1171-3, 1201-4 D 22-29 '23

Press work and welding combined in parts manufacture. L. S. Love. il Automotive Ind 53:704-6 O 22 '25

Rationale of safe welded, unfired pressure vessels. S. W. Miller. Refrig Eng 12:54-7 Ag '25

Recent developments in welding methods. W: Spraragen. Am Mach 60:79 Ja 17 '24

Repairs to rolling mill engine shaft. E. R. Norris. Blast F & Steel Pl 13:193-4 My '25

Report on autogenous and electric welding. il Ry R 75:125-33 Jl 26 '24

Schweissen und schweissbarkeit. Stahl & Eisen 44:147-8 F 7 '24

Some chemical aspects of welding. J. R. Booer. Engineering 117:221-3 F 15 '24; Abstract. Chem Age (Lond) 10:164-5 F 16 '24

Some scientific aspects of welding; abstract with discussion. C. R. Darling. Engineer 139:113-14 Ja 23 '25

WELDING—*Continued*

Special body welding methods cut labor costs to minimum. J. E. Schipper. il diag Automotive Ind 52:652-5 Ap 9 '25

Spreader for locomotive welding. L. M. O'Kelley. il Ry Mech Eng 98:38 Ja '24

Standard time for production welding. J. W. Meadowcroft. Am Mach 61:616 O 16 '24

Story of steel; the manufacture of butt-welded and lap-welded steel pipe. il Sci Am 131: 398-9 D '24

Track joint failures—cause and repair; a survey. il diags Elec Ry J 63:961-4 Je 21 '24

Training welding operators. Iron Age 113:448 F 7 '24

Use of welding in power-plant piping. L: J. Sforzini. diags Power 58:798-802 N 20 '23

Using the welding outfit in renewing babbitt bearings. Power 59:259, 833-4 F 12, My 20 '24

Utilizing gas-torch welding in building construction. il Eng N 93:462-3 S 11 '24

Von der chemie des schweissens. M. W. Neufeld. Zeit Ver Deutsch Ing 69:505-8 Ap 18 '25

Welded joints in 250-lb. steam line. T. T. Copeland. il Power 61:536 Ap 7 '25

Welded pipe joints for power plants. E. H. Thompson. il diags Power 61:680-2 My 5 '25

Welded valves. il Automobile Eng 15:272 Ag '25

Welding all-steel automobile bodies. J. W. Meadowcroft. Iron Age 112:1457-8 N 29 '23

Welding aluminum. Sheet Metal Worker 14: 827-8 N 23 '23

Welding aluminum castings demands great care. il Foundry 53:231-2 Mr 17 '25

Welding and cutting in freight yard repairs. H. W. L. Porth. il Ry Mech Eng 98:88-90 F '24

Welding applied to manufacturing. il Iron Age 116:1179-81+ O 29 '25

Welding cast-iron pipes. Pub Works 55:384 D '24

Welding cast iron with bronze. S. W. Miller. Am Mach 62:652 Ap 23 '25

Welding cast or malleable iron. A. H. Jansson. il diags Iron Tr R 74:1632-3 Je 19 '24; Same. Foundry 52:442-3 Je 1 '24

Welding encyclopedia. L. B. Mackenzie and H. S. Card, comps. 4th ed. 374p Welding engineer pub. co., 608 S. Dearborn St., Chicago '24

Welding equipment in a railroad shop. J. S. Heaton. il diag Ry Mech Eng 98:430-3 Jl '24

Welding for the plumber, H. A. Woodworth. il Dom Eng 113:22-3+ O 17 '25

Welding for the steamfitter. G. W. Macauley. il Dom Eng 108:19-20+ Ag 9 '24

Welding gas mains. L: Stein. Am Gas J 123: 155-6+ Ag 22 '25

Welding high-speed steel. S. W. Miller. Am Mach 61:798 N 20 '24

Welding in railroad shop practice. il Ry Mech Eng 99:580-3 S '25

Welding is employed on broader basis. J. W. Owens. il Iron Tr R 74:35-6; 76:28-9 Ja 3 '24, Ja 1 '25

Welding of fabricated steel structures discussed by American welding society. Ry Age 77:851-2 N 8 '24; Iron Age 114:1211-12 N 6 '24; Iron Tr R 75:1246-7 N 6 '24

Welding on boilers. S. W. Miller. Iron Age 116:1134 O 22 '25; Same. Am Mach 63:738 N 5 '25; Same. Ind & Eng Chem 17:1169 N '25; Same. Mach 32:237 N '25; Same. Nat Safety N 12:44 N '25; Same. Power 62:732 N 10 '25; Same. Iron Tr R 77:1589 D 24 '25; Same. Mech Eng 47:1148 D '25; Same. Power Pl Eng 29:1282 D 15 '25; Same. Safety Eng 50:264 N '25; Same. Textile World 68:3395 D 5 '25

Welding patches on boilers a dangerous practice. H. T. Smith. Power 60:813; 61:348 N 18 '24, Mr 3 '25; Discussion. 62:63 Jl 14 '25

Welding shops and electric rolling stock discussed by A. R. A. Elec Ry J 63:988-90 Je 21 '24

Welding standardization in locomotive shops. J. S. Heaton. diags Ry Mech Eng 98:176-8, 231-4 Mr-Ap '24

Welding—the filling-in and putting-on tool. W. R. Needham. Elec R (Lond) 96:967-9 Je 19 '25

Welding vs. riveting of large structures. W. Spraragen. Iron Age 115:1051+ Ap 9 '25; Same. Eng & Contr (Bldgs) 64:946-51 O 28 '25

Welding world history; tanks and fuselage of world-flight airplanes welded. il Iron Age 113:1729 Je 12 '24

Welds a mile-long refinery steam line without expansion joints. P. Truesdell. il diag plan Nat Pet N 17:48-50 S 16; 72+ S 23 '25

Die wesentlichen vorgänge beim pressschweissen und ein verfahren zu ihrer untersuchung. F. Sauerwald. Stahl & Eisen 45:1274-6 Jl 23 '25

See also Electric welding; Oxyacetylene welding; *also* American welding society

Accidents

Error of misplaced confidence. E. M. Parry. diag Locomotive 35:102-4 O '24

Accounting

Standardizing cost finding methods. Foundry 52:448-9 Je 1 '24

Exhibitions

Welding exhibit is success; American welding society fall meeting, Boston. il Iron Tr R 77:1122-3 O 29 '25

Failures

Another autogenously welded tank failure. Locomotive 35:239-40 O '25

Autogenously welded tank failure at New Orleans. il Locomotive 35:207-8 Jl '25

Autogenously welded tank failures. il diag Locomotive 35:142-4 Ja '25

Testing

Fatigue of welds. R. R. Moore. il Mech Eng 47:794-5 O '25

Stresses in a few welded and riveted tanks tested under hydrostatic pressure. A. H. Stang and T. W. Greene. il diags U S Bur Stand Tech Pa 243:645-66 '23

Testing welded pipe joints. Power 61:225, 665 F 10, Ap 28 '25

Über form und prüfung autogen und elektrisch geschweisster probestäbe. E. Höhn. diags Zeit Ver Deutsch Ing 69:1168-71 S 5 '25

Thermit process

Butt welding pipe by the thermit process. diag Chem & Met Eng 31:376 S 8 '24

Steel-plant men find welding has wide application. Coal Age 26:906 D 25 '24

Thermit process gives good results in Youngstown. D. J. Graham. il Elec Ry J 64:841-2 N 15 '24

Thermit welding. J. H. Deppeler. Iron Age 113:1363 My 8 '24

Thermit welding of drill steels. R. G. Guyer. Eng & Contr (Ry) 63:607-8 Mr 18 '25

Traveling workshop for welding crew saves time. il Elec Ry J 63:769-70 My 17 '24

WELDING, Electric. See Electric welding

WELDING, Oxyacetylene. See Oxyacetylene welding

WELDING rods

Bronze-steel welds. G: F. Comstock. il Iron Age 112:1381-2 N 22 '23

Properties of special welding rods. Foundry 52:356a, 392a, 436a My 1-Je 1 '24

Specifications

Specifications for gas welding rods. Foundry 52:188a, 220a Mr 1-15 '24

WELFARE work in industry

Appraisal of employee welfare work. C: L. Edgar. Elec W 82:1279 D 22 '23

Big business invests heavily in welfare; in seventeen years the United States steel corporation has expended $126,885,911. A. C. Carruthers. il Safety Eng 48:146-52 O '24

Building the morale of the working force; John B. Stetson company. J. H. Cummings. il Management & Adm 8:137-9 Ag '24

WELFARE work in industry—*Continued*
Cost of an employee service department. M. M. S. Rossy. Ind Management 70:4-5 Jl '25
Great Lakes shipowners develop model welfare plan. G: A. Marr. Marine Eng 29:393-6 Jl '24
Helping men to develop themselves. W: Davenport. Am Mach 62:653-4 Ap 23 '25
Homestake mine example in industrial cooperation. E. F. Irwin. il Min Cong J 10:79-80 F '24
Human factor in British industry. J. F. Whiteford. il Ind Management 69:349-53 Je '25
Human factors at cash register plant. il Iron Age 113:843-7 Mr 20 '24
Humanizing an industry--the American woolen co. E. Dakin. il Comm & Fin 13: 748-51 Ap 16 '24
International development of the industrial welfare or personnel movement. Int Labour R 10:48-58 Jl '24
Preventive dentistry service for newspaper employees; Chicago Tribune employees' benefit plan. Nation's Health 7:194-5 Mr '25
Principles of industrial welfare. J: Lee. 93p Pitman '24
Report of sub-committee on welfare of employees as affecting relations of company with customer. Am Gas Assn Accounting sec v 6:383-438; Discussion. 453-5 '24
Safety engineering in a model food plant. J. M. Thorsen. il Safety Eng 47:243-5 My '24
Société anonyme d'Escaut et Meuse à Anzin. R. Jouassain. Soc Ing Civils Bul 77:635-44, pl 82 O '24
Story of steel. il Sci Am 132:388-9 Je '25
Utopia founded in Scranton. R: Barclay. il Forbes 14:548-50 Ag 1 '24
Welfare department of Proximity manufacturing company. Nation's Health 6:704-5 O '24
Welfare organization. Electrician 94:259 F 27 '25
Welfare work for employees in Finland. Monthly Labor R 17:1415 D '23
Welfare work in industry. E. T. Kelly, ed. 119p Pitman '25
Well coordinated welfare work at Hygrade lamp company. il Nation's Health 6:165-6 Mr '24
Westinghouse company employees' welfare work. J. E. Murley. Nation's Health 6:379-80 Je '24
What is wrong with welfare? B. Hall. Ind Management 67:355 Je '24
Which companies have the lowest labor turnover in America? H. G. Sisson. Forbes 16: 453+ Jl 1 '25

See also Athletics; Benefit societies; Building loans, Company; Company towns; Day nurseries, Factory; Dental service, Industrial; Employees' associations; Employment management; Employment systems; Garden cities; Housing projects, Company; Insurance, Industrial; Lunch rooms and cafeterias, Employees'; Medical service, Industrial; Pensions, Industrial; Profit sharing; Saving; Unemployment—Relief measures; Vacation camps; *also* American cast iron pipe company

WELLAND, Ontario

Water supply

Welland water supply problem. W. Chipman. Can Eng 46:342 Mr 18 '24

WELLAND ship canal
Busy season on Welland canal. Can Eng 48: 426 Ap 21 '25
Great Lakes engineering problems. H. J. Lamb. il chart maps Can Eng 47:289-92 S 2 '24
Present status of Welland ship canal. il Can Eng 45:501-8 N 20 '23
Progress on the Welland canal. Eng & Contr (G C) 64:430 Ag 19 '25
Welland canal construction progress. il diags plan Can Eng 47:617-24 D 23 '24
Welland ship canal reviewed. Can Eng 49: 144 Jl 21 '25

WELLESLEY, Massachusetts

Churches

Congregational church, Wellesley, Mass. Arch Forum 40:pls 51-53 Ap '24

WELLS, Horace Lemuel, 1855-1924
Sketch. por Am J Sci 5th ser 9:189-94 [bibliog.p. 192-4] Mr '25

WELLS, Oscar
New A.B.A. president's career a model for young bankers. G. Edwards. Forbes 16:881-2+ O 1 '25

WELLS
Concrete wells at Holland, Michigan. R. B. Champion. il Am Water Works Assn J 14: 17-22 Jl '25
Construction of wells and bore-holes for water supply and the elements of the analysis and purification of water. J. E. Dumbleton. 134p C. Lockwood and son, London '25
Deep-well water pumping. G. B. Mulloy. il Power 61:992-4 Je 23 '25
Device removes sand from gravel wells. C. K. Calvert. il Eng N 91:1064-5 D 27 '23
Drilling, care and operation of deep wells. C: F. Cole. Am Water Works Assn J 11:868-72 Jl '24; Same. Can Eng 46:397-8 Ap 1 '24
Experiences in shooting water wells. C. W. Varner. Munic & Co Eng 66:199-200 Ap '24; Same. Eng & Contr (W W) 61:1090-1 My 14 '24
Extending dug wells below water level; methods used in irrigation practice in Arizona. G. E. P. Smith. diag plan Eng & Contr (W W) 62:778 O 8 '24
Fresno city water corporation. E. K. Barnum. Am Water Works Assn J 13:81-90 Ja '25
From filters to small wells then to large wells. W. A. Cone. il Eng N 95:216-17 Ag 6 '25
Future of water reservoir projects in Illinois and their relationship to geologic data. M. M. Leighton. diag maps Am Water Works Assn J 11:770-80 Jl '24; Same. Eng & Contr (W W) 61:1061-5 My 14 '24
Increasing flow of wells with air. diags Eng & Contr (W W) 62:1257-8 D 10 '24
Increasing yield of a deep well. Pub Works 56:288 Ag '25
Large English bored well. F: J: Dixon. diags plan Eng & Contr (W W) 61:347-53 F 13 '24
Marshfield, Wis., gets well supply after 25 years' search. il Eng N 92:843 My 15 '24
Methods of developing underground water supplies. E. W. Bennison. Am Water Works Assn J 13:45-9 Ja '25; Same. Can Eng 49:249-50 Ag 25 '25
New water works system, Batiscan, Quebec. R. Morrissette. plans Can Eng 46:425-7 Ap 15 '24
New well water system of Winter Garden, Fla. L. H. King. diag Eng & Contr (W W) 61:565-6 Mr 12 '24
Pneumatic pumping up to date. J: Oliphant. diags Am Water Works Assn J 10:1082-7 N '23
Protection of tourist water supplies in Illinois. Eng & Contr (W W) 63:745 Ap 10 '25
Providing a new water supply for small towns. A. Charter. il Manuf Rec 88:94-5 Jl 30 '25
Quantity production of ground water from wells in sand. J. G. Gordon. diag Eng N 95:188-9 Jl 30 '25
Recent water developments at Memphis. J. R. McClintock. il plans Am Water Works Assn J 10:1056-71 N '23
Sanitary control of ground water supplies. H. J. Darcey and others. Eng & Contr (W W) 64:381-8 Ag 12 '25
Sanitary defects of a well water supply. Eng N 92:489 Mr 20 '24
Sanitary rules for installing well pumps. Eng N 95:706 O 29 '25; Same. Sanitary & Heat Eng 104:317 N 13 '25
Shallow wells of Iowa. H. V. Pederson. Am Water Works Assn J 13:70-2 Ja '25

WELLS—*Continued*
Sinking, cleaning and testing wells on the Los Angeles aqueduct. G: R. Shuey. il Eng N 94:820-2 My 14 '25
Southern well and its screen at Clarksdale, Miss. J. R. Agnew. il diag Eng & Contr (W W) 64:368-9 Ag 12 '25
Suggestions for installing lift and force well pumps. il Dun's Int R 45:66 Jl '25
Well water system in the mill. T. H. Hammond. il Paper 33:11-13 Ja 24 '24
Well water system of Auburndale, Fla. H. C. Hewitt. il Pub Works 55:119-21 Ap '24
Wells for water supply of London, Ont. Eng N 92:845 My 15 '24
Westmoreland's new water supply. Pub Works 56:287-8 Ag '25
Yield of wells. G. C. Habermeyer. Am Water Works Assn J 11:840-4 Jl '24; Same. Eng & Contr (W W) 61:786-8 Ap 9 '24; Same abr. Pub Works 55:234-5 Jl '24

See also Artesian wells; Drilling and boring (earth and rocks); Gas, Natural; Petroleum—Well boring; Petroleum—Well temperature; Water, Underground

WELLS (architecture)
Beaux-arts institute of design; student work. il Am Arch 125:87-90 Ja 16 '24
Well in the courtyard, Santa Maria Della Querce, Viterbo, Italy. il diag Am Arch 127:39-40 Ja 14 '25

WELSBACH company, Gloucester, New Jersey
How Welsbach helps gas companies maintain sales. M. MacDonald. Ptr Ink 124:25-8 Ag 9 '23; Same. Am Gas J 119:595-6 D 1 '23

WEMBLEY Park stadium. See Stadia

WEMPLE, Leland E., 1886-
Metallurgists of note. por Eng & Min J 120: 364 S 5 '25

WENATCHEE Southern railroad
I.C.C. divided on certificate for new line to the Wenatchee Southern. Ry Age 77:325-6 Ag 23 '24
Rehearing asked on certificate for new line. Ry Age 77:370 Ag 30 '24

WESLEYAN university
Health supervision at Wesleyan university. E. Fauver. il Nation's Health 6:452-4+ Jl '24

WEST

See also Electric plants (central stations)—Western states; Hydroelectric plants—Western states; Pacific coast; Roads—Western states

Industries and resources

Westward the course of industry. J: A. Piquet. il Ind Management 69:273-8 My '25

See also Electric industries—Western states

WEST CHESTER, Pennsylvania

Rapid transit

Revenue increased on unified transportation system; Chester Valley lines. il map Elec Ry J 66:273-5 Ag 22 '25
Transportation service co-ordinated in southeastern Pennsylvania. il map Elec Ry J 64:881-4 N 22 '24

WEST END consolidated mining company
Borax Smith answers circular of stockholder's protective committee. Eng & Min J 120:102 Jl 18 '25

WEST INDIES

See also Railroads—West Indies

Commerce

British trade with the West Indian colonies. Engineering 119:374-5 Mr 27 '25
Butter and cheese markets in the West Indies. M. A. Wulfert. U S Bur For & Dom Com Trade Information Bul 369:1-15 '25
Caribbean markets for American goods; West Indies. M. J. Meehan. U S Bur For & Dom Com Trade Information Bul 352:1-32 '25

WEST POINT military academy
Cadet hospital, United States military academy, West Point, N.Y. il plans Am Arch 128:87-90, pl 200-3 Jl 29 '25
West Point military academy. il Sci Am 131: 150-1 S '24

WEST VIRGINIA

See also Coal—West Virginia; Coal miners—West Virginia; Coal mines and mining—West Virginia; Gas, Natural—West Virginia; Mines and mineral resources—West Virginia; Roads—West Virginia

Industries and resources

Census of West Virginia manufactures in 1923. Manuf Rec 88:100 Jl 2 '25
West Virginia. E. F. Morgan. Manuf Rec 86:430-1; Statistics. 434 pt 2 D 11 '24

WEST VIRGINIA coal mining institute
Meeting, Huntington, Dec. 4-5. Coal Age 24: 889-90 D 13 '23
Meeting, Elkins, June 17-18. Coal Age 25:949-50 Je 26 '24
Meeting, Welch, W. Va., Dec. 2-3. J. H. Edwards. Coal Age 26:835-6 D 11 '24
Meeting at Logan discuss gases, substations, geology and coal cleaning. R. D. Hall. Coal Age 27:871-5 Je 11 '25

WEST-VIRGINIA-Kentucky association of mine, mechanical and electrical engineers
Annual convention, 4th, Huntington, W. Va., Dec. 12-13. Coal Age 26:907-9 D 25 '24

WEST VIRGINIA master plumbers' association
Annual convention, 1st, Charleston, June 2. Dom Eng 107:43-4 Je 14 '24

WESTCHESTER county, New York
New charter for Westchester county. Eng N 94:846 My 21 '25
Plans for Westchester traffic. H. M. Brinckerhoff. diags Elec Ry J 65:214-15 F 7 '25
Water district for Westchester county. map Pub Works 55:157-9, 189-90 My-Je '24

WESTERLY, Rhode Island

Sewerage

Sewerage system of the town of Westerly. T: McKenzie. il Boston Soc C E J 12:128-41 Mr '25

WESTERN company
759 jobber salesmen attend manufacturers' sales convention; Western company has jobber co-operation. C. B. Larrabee. Ptr Ink 128:109-10+ Ag 7 '24

WESTERN electric company
Annual report for the year 1923. Comm & Fin Chr 118:1410-13 Mr 22 '24
Annual report for the year ending December 31, 1924. Comm & Fin Chr 120:1624-7 Mr 28 '25
Making the branch a local institution. G: R. Wicker. Ptr Ink 132:17-20 S 10 '25
Material handling problems at the Western electric company. F. J. Feeley. il W Soc E J 30:360-71 Ag '25
Recruiting from the colleges. J: Mills. Elec W 84:1382-3 D 27 '24

See also Bell telephone laboratories, inc.

WESTERN insurance bureaus
Threat of drastic action given; commissioners meet in New York. Spectator 112:3-4+ Ja 17 '24

WESTERN Maryland railroad
Annual report, 16th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2537-8 My 16 '25

WESTERN Pacific railway
Annual report, 8th, 1923. Comm & Fin Chr 118:2697-8 My 31 '24
Corrugated culverts on the Western Pacific. C. P. Gilmore. il Eng & Contr (Ry) 62:875-8 O 15 '24
Western Pacific possibilities. map Ry Age 78:407-9 F 14 '25
Western roads perfect trackage agreement. map Ry Age 76:792-3 Mr 22 '24

WESTERN petroleum refiners' association
Annual convention, Dallas. Pet Age 13:22+ Mr 15 '24
Meeting, Kansas City, March 3-5. Nat Pet N 17:25-7, 33-9 Mr 11 '25; Pet Age 15:16-18 Mr 15 '25

WESTERN power corporation
Annual report, 1923. Comm & Fin Chr 119:340-1 Jl 19 '24
Western power corporation's program. H. P. Wilson. map Elec W 85:420 F 21 '25

WESTERN society of engineers
Annual meeting, 55th. W Soc E J 30:[current news]83-93 Je '25
Mid-winter convocation, Chicago, Feb. 6-7. Elec Ry J 63:299-303 F 23 '24

WESTERN Union telegraph company
Annual report for fiscal year 1923. Comm & Fin Chr 118:1560-1 Mr 29 '24
Annual report—for fiscal year 1924. Comm & Fin Chr 120:1627-8 Mr 28 '25

WESTERN warm air furnace and supply association
Annual meeting, Chicago, Dec. 5. Sheet Metal Worker 14:909-11+ D 21 '23
Annual meeting, Chicago, Dec. 3-4. Sheet Metal Worker 15:913+ D 19 '24
Semi-annual meeting, Des Moines, Iowa, June 11. Sheet Metal Worker 15:430+ Je 20 '24

WESTINGHOUSE air brake company
Annual report—year ended Dec. 31, 1924. Comm & Fin Chr 120:1739-40 Ap 4 '25

WESTINGHOUSE building, New York
Westinghouse building, New York. Arch & Bldg 56:73-4, pl 145-9 Jl '24

WESTINGHOUSE electric and manufacturing company
Annual report, March 31, 1924. Comm & Fin Chr 118:2589-90 My 24 '24
Annual report March 31, 1925. Comm & Fin Chr 120:2695-6 My 23 '25
Annual stockholders' report. J Elec 55:148 Ag 15 '25
Early days in the Westinghouse shops. C: F. Scott. il diags Elec W 84:585-7 S 20 '24
Fortieth anniversary. Bankers M 108:839-44 My '24
Forty years ago. il Blast F & Steel Pl 12:337-8 Jl '24
How Westinghouse shoved aside obstacles to increased sales. E. B. Weiss. il Ptr Ink M 9:75-6+ S '24
Prevention and salvage of waste at Westinghouse. C. B. Auel. il Management & Adm 7:669-74; 8:65-70, 185-90 Je-Ag '24
Shop transportation economics; Westinghouse methods and results. S. M. Lowry. il chart Management & Adm 7:533-8 My '24
Three large manufacturing units created by growth of the electrical industry. il Ind Eng 83:2-5+ Ja '25
Typical big plant with a variety of products; how the Westinghouse electric & mfg. co. handles materials at East Pittsburgh. M: W. Potts. il Ind Management 70:89-95 Ag '25
Westinghouse achievements in 1923. H. W. Cope. Aera 12:1011-16 Ja '24
Westinghouse electric and manufacturing company 7s, 1931. Moody's Inv Serv 17:140 Ap 23 '25
Westinghouse shop express system. S. M. Lowry. il plan Management & Adm 10:7-10, 75-8 Jl-Ag '25

WESTMINSTER Hall, London
Five-hundred-year-old roof; preserving Westminster Hall for posterity. il diag Sci Am 130:32 Ja '24
Westminster Hall roof and the recently executed repairs. W: Harvey. il diags Am Arch 125:55-60 Ja 16 '24

WESTMORELAND, Kansas
Water supply
Westmoreland's new water supply. Pub Works 56:287-8 Ag '25

WESTON, Edward
Presentation of the Franklin medal and certificate of honorary membership. por J Fr Inst 198:366-88 S '24

WESTON standard cells. See Electric batteries

WETTING
Wetting ability and its relation to industry. W. H. Nuttall. Soc Dyers & Col J 40:104-11 Ap '24
Wetting of barium sulfate. V: Lenher and H. G. Taylor. J Phys Chem 28:962-4 S '24

WETTING, Heat of
Heat of wetting of lead sulfate. W. A. Koehler and J. H. Mathews. diags Am Chem Soc J 46:1158-67 My '24

WEYERHAEUSER forest products
How Weyerhaeuser sets its ideals by the mark of a man. W. S. Smith. il Forbes 16: 15-17+ Ap 15 '25

WEYMOUTH power station. See Electric plants (central stations)—Weymouth, Massachusetts

WHALE oil
Composition of whale oil. C. H. Milligan, C. A. Knuth and A. S. Richardson. Am Chem Soc J 46:157-66 Ja '24
Constitution of natural unsaturated fatty acids; some acids present in a South Georgia whale oil. E. F. Armstrong and T. P. Hilditch. Soc Chem Ind J 44:180-9 Ap 24 '25
Fish oils: a great Norwegian industry. Chem Age (Lond) 12:6-7 Ja 3 '25
Heterogeneous catalysis. A. S. Richardson, C. A. Knuth and C. H. Milligan. Ind & Eng Chem 17:80-3 Ja '25
Recherches sur les acides gras de l'huile de baleine; abstract. Y. Toyama. Chimie & Ind 14:92-3 Jl '25

WHALING
California whale oil industry. il Chem & Met Eng 30:871 Je 2 '24

WHALL, Christopher
Christopher Whall, artist-craftsman. C: J. Connick. il Am Inst Arch J 13:245-50 Jl '25

WHARVES
L'aménagement des quais des ports de mer. P. Caufourier. diags Génie Civil 84:134-5 F 9 '24
Calcul des murs de quai; sous-pression dans les joints des maçonneries noyées. G. Sainflou. Génie Civil 85:419-24 N 8 '24
Couverture en ciment armé du quai nord-ouest du port de Sfax (Tunisie). F. Willm. il diags Génie Civil 85:424-6 N 8 '24
Development of the port of Montreal. M. T. Sheehy-Casey. il Can Eng 47:513-18 N 18 '24
Effect of deep water quays on navigation. E. Latham. Engineer 137:625-6 Je 6 '24
Fowey. J: P. Carter. il Chem Age (Lond) 10:sup14-15 Mr 15 '24
Iddo Island wharf; Lagos harbour. diags Engineering 120:373-4, pl 25 S 25 '25
New china clay jetty at Fowey. il diags Engineer 137:195-6, 202 F 22 '24
Quay walls of Southampton. F. E. Wentworth-Sheilds. diags Engineering 120:303-4 S 4 '25; Abstract. Engineer 140:236 S 4 '25; Discussion. Engineering 120:283 S 4 '25
Report of the A.S.C.E. special committee appointed to consider the report made to the National fire protection association on the fire hazard of docks, piers, and wharves. Am Soc C E Pro 50:[Soc aff]272-85 Mr '24
Solution of the transportation, parking and flood problems of Pittsburgh. E. K. Morse. diags Eng Soc W Pa 40:183-202; Discussion. 203-16 Je '24
Some tropical wharf construction. T. H. Barnes. diags Boston Soc C E J 11:385-416 N '24
Les travaux d'agrandissement du port du Havre. C: Dantin. il diags plan Génie Civil 84:369-74 Ap 19 '24
Les travaux d'extension du port du Havre. M. Michel-Schmidt. diags map (supp) Soc Ing Civils Bul 77:433-515, pl 74-5 Jl '24

WHARVES—*Continued*
$2,000,000 wharf near completion at New Orleans. il Manuf Rec 87:83 F 26 '25

See also Bulkheads; Docks; Fenders, Floating; Harbors; Piers

Cost

Some tropical wharf construction. T. H. Barnes. diags Boston Soc C E J 11:385-416 N '24

WHARVES, Concrete
Rapid strides made in Yokohama port reconstruction. K. Koyanagi. il diags Eng N 93:552-4 O 2 '24
Wilmington completes one unit of port development. C: H. Gant. il Eng N 92:152-4 Ja 24 '24

WHEAT
Agricultural conditions. Nat City Bank p 29-30 F '25
Broomhall's estimates of world wheat export surpluses and import requirements in 1924-1925. Econ W n s 28:592 O 25 '24
Canadians pool wheat. A. C. Laut. Forbes 15:337-9+ D 15 '24
Chemistry of wheat flour. C. H. Bailey. 324p [bibliog. p. 293-314] Chemical catalog co. '25
Chicago opinion regarding the world wheat situation. Econ W n s 28:731 N 22 '24
Chicago trade board bans inferior wheat—acts to protect buyers. Comm & Fin Chr 121:1418 S 19 '25
European wheat position. Economist 101:180-1 Ag 1 '25; Same. Econ W n s 30:296-7 Ag 29 '25
Fall of the wheat empire. E. Dakin. Comm & Fin 13:341-3 F 13 '24
Farmers and the grain trade in the United States: an interpretation of the present pooling movement. J. E. Boyle. Econ J 35: 11-25 Mr '25
Financing the marketing of wheat. J: M. Chapman. Harvard Business R 3:436-46; 4: 57-70 Jl, O '25
Foreign import duties on wheat, wheat flour, meat and meat products. F. W. Fetter and H: Chalmers. U S Bur For & Dom Com Trade Information Bul 233:1-37 '24
Great Britain's annual imports and supply of wheat. Econ W n s 28:302-3 Ag 30 '24
Influence of environment on the protein-content of wheat. F. T. Shutt. Can Chem & Met 9:195-7 S '25
Inquiry into alleged corner in July wheat. Comm & Fin Chr 121:664 Ag 8 '25
International competition in the production of wheat for export. U S Bur For & Dom Com Trade Information Bul 210:1-25 '24
International trade in wheat and wheat flour. J. A. LeClerc. map U S Bur For & Dom Com Trade Promotion Ser 10:1-290 '25
Is the wheat problem solved? J: F. Fennelly. Comm & Fin 14:61-2 F 14 '25
Italy to increase wheat production. B. Maineri. Annalist 26:192 Ag 14 '25
Marketing Canadian wheat. T. D. Hammatt. il maps U S Bur For & Dom Com Trade Information Bul 251:1-123 '24
Methods of merchandising American wheat in the export trade; buying wheat for export. T. D. Hammatt. U S Bur For & Dom Com Trade Information Bul 183:1-74 '24
Methods of merchandising American wheat in the export trade; selling American wheat abroad. T. D. Hammatt. U S Bur For & Dom Com Trade Information Bul 185:1-78 '24
Milling and baking quality of the wheat of western Canada. A. W. Alcock. maps Can Chem & Met 9:60-4 Mr '25
Northwest wheat; a first-hand view. H. A. Haring. Annalist 22:755-6+ D 10 '23
Official estimate of the 1925 wheat crop of India. Econ W n s 30:340 S 5 '25
Outlook in the wheat belt. C. H. Getz. Bankers M 108:527-9 Ap '24
Per capita production and consumption of wheat in leading countries of the world. W. R. Voller. Econ W n s 28:52 Jl 12 '24
Phytosterols of wheat endosperm. R. J. Anderson and F. P. Nabenhauer. Am Chem Soc J 46:1717-21 Jl '24
Present season's wheat crop in the Northern Hemisphere. Econ W n s 30:482 O 3 '25
La production et la consommation mondiales de blé. Génie Civil 85:431-2 N 8 '24
Report to President Coolidge by Eugene Meyer, jr. and Frank W. Mondell decides that co-operative wheat marketing associations most helpful of all plans. Comm & Fin Chr 117:2058-62 N 10 '23
Rise in wheat indicates reversal of world situation. H. E. Anderson. charts Annalist 23:731-2 Je 30 '24
Seasonable aspects of wheat exporting. T. D. Hammatt. U S Bur For & Dom Com Trade Information Bul 350:1-10 '25
Senator Shipstead in letter to Julius H. Barnes alleges that in wheat price movement the Agricultural department assisted in the "bull" movement. Comm & Fin Chr 120:1964 Ap 18 '25
Some statistics of our wheat supplies. Economist 98:sup27 Ap 26 '24
Variations in wheat types. L. A. Fitz. Ind & Eng Chem 15:1215-17 D '23
We must stop exporting wheat. W. M. Jardine. Nation's Business 12:21 Je 5 '24
What happened to the wheat market. J. E. Boyle. Nation's Business 13:56+ My '25
Wheat acreage and farm prosperity. J: F. Fennelly. Comm & Fin 14:1620 Ag 26 '25
Wheat belt farmer and his bank. A. F. McCarty. il Burroughs Clearing House 8: 5-7+ Mr '24
Wheat control during the war; abstract. F. W. Surface. Nat City Bank p 6-8 Jl '25
Wheat man's problems; a way out. G: C. Jewett. il Am Ind 24:5-9 N '23
Wheat outlook. Moody's Inv Serv 16:261-2 Jl 3 '24
Wheat production for 1925. Ry Age 79:158 Jl 18 '25
The wheat situation. Nat City Bank p 11-14 Ja '25; Same. Econ W n s 29:45-7 Ja 10 '25
Wheat subsidy through tax on wheat exports proposed by Oregon farmers. Comm & Fin Chr 117:2844 D 29 '23
Wheat supplies and distribution. Bradstreet's 53:625-6 S 26 '25
Where the wheat crop will pay. P. Coan. Comm & Fin 13:1473-4 Ag 6 '24
Which wheats and why. C. B. Sherman. Am Bankers Assn J 17:697-8 My '25
Winter-wheat planting. Bradstreet's 52:829 D 27 '24
World wheat crop. Am Ind 26:34 S '25
World wheat shortage ahead holds hope for farmers. H. E. Anderson. Annalist 24:77+ Jl 21 '24
World wheat situation. Comm M 6:21-5 Ag '24
World wheat situation as summarized by the United States Department of agriculture. Econ W n s 29:734 My 23 '25
World's wheat position. Economist 100:5-7; 101:654-5 Ja 3, O 24 '25

See also Bread—Cost; Flour; Shredded wheat; Tariff—United States—Wheat

Cleaning

Millions can be saved by cleaning wheat. C. B. Sherman. Am Bankers Assn J 18:79+ Ag '25

Moisture content

Determination of moisture in wheat and flour. H. Snyder and B. Sullivan. Ind & Eng Chem 16:741-4, 1163-7; 17:311-14 Jl, N '24, Mr '25

Prices

Control of wheat prices. Index p 6-7 Ag '25
How the price of wheat was fixed. Bradstreet's 53:411 Je 20 '25
Prices of wheat and their relationship to transportation costs. Ry R 76:587 Mr 21 '25
Les prix de revient et de vente du blé, en France; calcul du prix du pain d'après celui du blé. Génie Civil 83:623-4 D 22 '23

WHEAT—Prices—*Continued*
Stabilization of the price of wheat during the war and its effect upon the returns to the producer. F. M. Surface. 100p United States grain corporation, Washington, D.C. '25
United States Department of agriculture says wheat prices in United States are not too high as compared with rest of the world. Comm & Fin Chr 120:152 Ja 10 '25

Transportation
Influence of transportation costs on the wheat trade of the United States. A. H. Ritter. 24p Great Lakes-St Lawrence Tidewater assn., Duluth, Minn. '24
Railroads' position on reduced rates on export wheat. Ry R 73:683-4 N 10 '23

WHEAT germ extract
Production and nutritional value of commercial wheat germ extract. C: Hoffman. diags Ind & Eng Chem 17:498-503 My '25

WHEAT straw. See Straw

WHEATSTONE bridge
Measurement of low resistance by means of the Wheatstone bridge. F. Wenner and A. Smith. U S Bur Stand Sci Pa 481:297-305 '24
Theory, construction and use of an induction-capacity bridge. P. H. Craig. diags Radio N 5:1080-1+ F '24

WHEEL pullers
Wheel puller for automotive equipment. il Management & Adm 8:38 Jl '24

WHEELER, Burton K.
Attorney-general Stone brings new proceedings against Senator Wheeler. Comm & Fin Chr 120:784 F 14 '25
United States Senate investigation of indictment against Senator Wheeler. Comm & Fin Chr 118:2134-5, 2263, 2396-7, 2533-4 My 3-24 '24

WHEELING, West Virginia

Rapid transit
Bus competition ends at Wheeling. Elec Ry J 63:335-6 Mr 1 '24

Water supply
Historical sketch of Wheeling water works. J. W. Shull. Am Water Works Assn J 13: 280-3 Mr '25
New Wheeling, W.Va., water works. J. F. Laboon. il Am Water Works Assn J 13:265-79 Mr '25; Same. Eng & Contr (W W) 64: 86-93 Jl 8 '25

WHEELING & Lake Erie railway
Annual report, 8th, year ended Dec. 31, 1924. Comm & Fin Chr 120:2934 Je 6 '25

WHEELING steel corporation
Annual report for the year 1923. Comm & Fin Chr 118:1806-7 Ap 12 '24

WHEELS
See also Automobiles—Wheels; Car wheels; Flywheels; Gearing; Grinding wheels; Locomotives—Wheels; Mine skip wheels; Motor buses—Wheels; Motor trucks—Wheels; Pulleys; Turbines; Windmills

Testing
Device for testing wire wheels. H. C. Ten Horn. diags Mach 31:793-4 Je '25

WHEELS, Steel
Changes wrought by the steel wheel. R. N. Stillwell. il Am Exporter 95:69+ Jl '24
New standard gage for steel wheels. diag Ry Mech Eng 97:819 D '23; Ry R 73:842 D 8 '23
Report of A.R.A. committee on wheels. Ry Age 78:1590-3 Je 20 '25; Ry R 77:24-6 Jl 4 '25; Ry Mech Eng 99:445-7 Jl '25
Valuable facts to know about rolled steel wheels. G: A. Richardson. il diags Ry R 76:1070-4 Je 13 '25
Wheel maintenance practice in Denver. il Elec Ry J 65:327-8 F 28 '25

Manufacture
Davis steel wheel; abstracts with discussion. W. R. Martin. Engineering 120:361 S 18 '25; Engineer 140:290 S 18 '25
Machine forging dies. C. C. Hermann. diags Mach 31:435-6 F '25
Steel wheels for twentieth-century railroads. il Sci Am 130:35 Ja '24

WHIPPLE, George Chandler, 1866-1924
Appreciation. J: M. Goodell. Eng N 93:968 D 11 '24
Sketch. por Eng N 93:925-6; 94:125 D 4 '24, Ja 15 '25; Am Water Works Assn J 13:93-4 Ja '25

WHISTLES
Air whistle blast made visible. A. M. Hoffman. Marine R 55:195 My '25

WHITACRE-Greer fireproofing company, Waynesburg, Ohio
A job, a home and contentment. J: W. Harrington. il Am Ind 24:5-10 Ja '24

WHITE
See Titanium white

WHITE, C. P.
C. P. White expected to prove big asset to government coal division. P. Wooton. Coal Age 26:297 Ag 28 '24

WHITE, Walter C.
Why the White roll call is growing longer. O. D. Foster. por il Forbes 15:75-8 O 15 '24

WHITE ants. See Termites

WHITE arsenic. See Arsenic trioxide

WHITE House
Keeping the White House white. il Bldg Age 45:84 D '23

WHITE lead
Fabrication de la céruse; quelques observations sur le procédé hollandais. N. Chercheffsky. Chimie & Ind 11:45-8 Ja '24
Manufacture of white lead by the Old Dutch or Stack process. W. R. Waelty. il Chem & Met Eng 32:491-4 My '25
Nouveau procédé pour la fabrication de la céruse en écailles dures. E. Lenoble. Chimie & Ind 10:836-9 N '23
Old Dutch white lead process. F: W. Shaw. il Chem & Met Eng 30:51-3 Ja 14 '24
Process of making white lead. Brass W 20:290 Ag '24
Production of antimony and lead. il diag Metal Ind 22:139-40 Ap '24
Typical problem in chemical engineering development; manufacture of sublimed white lead. J. H. Calbeck. il diags Chem & Met Eng 31:920-4 D 15 '24
White lead sharply higher in sympathy with metal, 1924. Chem & Met Eng 32:137 Ja 19 '25

WHITE motor company, Cleveland
Annual report, 8th, 1923. Comm & Fin Chr 118:1290 Mr 15 '24
Annual report, 1924. Comm & Fin Chr 120: 1638-9 Mr 28 '25
Building for industrial research and testing work. il diag plan Eng N 94:1056-8 Je 25 '25
White Motor earns $4,084,248 in 1924. Automotive Ind 52:636 Ap 2 '25

WHITE water. See Paper mills—Waste

WHITEHALL, New York

Water supply
New gravity water supply for Whitehall, N.Y. J. P. Wells. il map Eng N 95:344-5 Ag 27 '25

WHITING
From chalk to whiting with economy. il Chem & Met Eng 31:810-11 N 24 '24
Natural and precipitated whiting compared. J: M. Ball. India Rubber W 69:230 Ja '24

Specifications
Recommended specification for ceramic whiting. U S Bur Stand Circ 152:1-7 '23

WHITMAN'S, Philadelphia
Whitman's of Philadelphia and Walter P. Sharp. E: Hungerford. il Ptr Ink M 8:24-6+ Ap '24

WHOLESALE prices. See Prices, Wholesale

WHOLESALE trade. See Jobbers

WHOLESALERS' association of dress fabric buyers
Annual meeting, New York, Jan. 20. Textile World 67:437-9 Ja 24 '25
Midsummer meeting, New York. Textile World 66:341-2 Jl 19 '24

WICHITA, Kansas
Bridges
Pipe lines on bridges. P. L. Brockway. il diags Pub Works 55:239-41 Ag '24; Same. Eng & Contr (Bldgs) 64:217-19 Jl 22 '25

WICHITA FALLS, Texas
City that faith built. F. Jackson. il Comm & Fin 14:774-5 Ap 22 '25

WICKENDEN, W. E.
Portrait. Chem & Met Eng 29:916 N 19 '23

WICKWIRE Spencer steel corporation
Reorganization plan. Comm & Fin Chr 119:823-4 Ag 16 '24
Securities. Moody's Inv Serv 17:31 Ja 22 '25; Correction. 17:39 Ja 29 '25

WIGGINS, Frank
Frank Wiggins, builder of a city. por Nation's Business 13:22-3 Jl '25

WIGHT, Frank C., 1882-
Engineering news-record's new editor. Eng N 92:34 Ja 3 '24

WIGHT, Peter B., 1838-1925
Sketch. por Am Arch 128:389-90 N 5 '25

WILDERNESS areas
Wilderness as a form of land use. A. Leopold. J Land & Pub Util Econ 1:398-404 O '25

WILEY, Harvey W.
Chemist who has served mankind. por Chem & Met Eng 31:650 O 27 '24

WILEY, William H., 1842-1925
Sketch. por Mech Eng 47:522 Je '25

WILKES-BARRE, Pennsylvania
Engineering in the small city. Eng N 94:891-2 My 28 '25

WILKINSBURG, Pennsylvania
Streets
Street widening in Wilkinsburg. C: F. Sperling. il Pub Works 55:182-3 Je '24

WILKINSON, John, 1728-1808
Famous machinists in history. H. H. Manchester. por Am Mach 61:344 Ag 28 '24

WILLARD devulcanizing process. See Rubber waste

WILLIAMS, Glen Lenardo
Easy money from aluminum; a review of past and present activities of Dr Glen Lenardo Williams. Chem & Met Eng 30:468-70 Mr 24 '24

WILLIAMS, Robert, 1860-
Mining engineers of note. W. A. Doman. por Eng & Min J 116:1016 D 15 '23

WILLIAMS, William H.
Meet William H. Williams. J. H. McMullen. Comm & Fin 13:1265-6 Jl 2 '24

WILLIAMSON, Robert Baird
Sketch. por Elec W 84:1144 N 29 '24

WILLIAMSTOWN institute of politics. See Institute of politics, Williams college, 1925

WILLITE
Federal court holds Willite patent invalid. Munic & Co Eng 69:81-4 Ag '25

WILLS
Keeping gifts of income at par. M. Sykes. Comm & Fin 14:1138 Je 10 '25
Twelve points in making a will. A. C. Livingston. Am Bankers Assn J 17:509-10 F '25
Wills and trusts with trust companies as executors. J. W. White. Spectator 115:23+ O 8 '25
See also Executors and administrators; Legacies

WILLYS-Overland company
How we cut overhead 80%. J: N. Willys. il System 48:263-8+ S '25
How Willys turned losses into millions of profit. B. C. Forbes. Forbes 16:515-18+ Jl 15 '25
Willys-Overland co. 1924 net $2,086,645. Automotive Ind 52:636 Ap 2 '25

WILMINGTON, Delaware
Wilmington—where tradition marches with progress. S. S. Santmyers. il Comm & Fin 13:915+ My 7 '24
Bridges
Bridge architecture. il diag plan Am Arch 124:545-54 D 19 '23
Washington memorial bridge. il Arch Forum 39:295-8, pl 102-3 D '23
Washington memorial bridge at Wilmington. il Sci Am 130:319 My '24
Harbor
Wilmington completes one unit of port development. C: H. Gant. il Eng N 92:152-4 Ja 24 '24

WILMINGTON, North Carolina
Engineering in the small city. il Eng N 94: 1018-20 Je 18 '25
Water supply
Purification of colored water at Wilmington, N.C. G: D. Norcom. Am Water Works Assn J 11:96-117 Ja '24
Study of the efficiency of the improved water purification plant at Wilmington, N.C. G: D. Norcom. Am Water Works Assn J 11:833-9 Jl '24; Excerpts. Pub Works 55:324 O '24

WILSON, Charles A.
Charles A. Wilson, typographer; with examples of his work. J. B. Gray. Inland Ptr 74:720-h F '25

WILSON, Woodrow, 1856-1924
Congressional memorial to late President Wilson. E. A. Alderman. Comm & Fin Chr 119: 2963-6 D 27 '24
Memorial services. Bradstreet's 52:813 D 20 '24
Sketch. por Comm & Fin 13:293 F 6 '24; Comm & Fin Chr 118:613-16 F 9 '24
Tributes to Woodrow Wilson. Comm & Fin 13:353 F 13 '24
Wilson ideal stamped on industry. E. C. Boehringer. Iron Tr R 74:402-3 F 7 '24

WILSON and company, incorporated
Reorganization plan. Comm & Fin Chr 120: 2025-6 Ap 18 '25
Wilson & company reorganization. Moody's Inv Serv 17:123 Ap 9 '25

WILSON dam. See Muscle Shoals project

WILSON foundation
Presentation to Viscount Cecil of Woodrow Wilson foundation award—work of League of nations. Comm & Fin Chr 120:42-6 Ja 3 '25

WINCHES
Care and use of electric winches, A. O. Loomis. il Marine R 54:456-60+ D '24; Same cond. Elec J 21:568-73 D '24
Economical winches for motorship. il diag Marine R 54:97-9 Mr '24
Economy of steam winches on converted motorships. A. B. Newell. Marine Eng 30:177-8 Mr '25
Electric truck winch with 10,000-lb. pull. J. R. Coxe. il Elec W 83:581 Mr 22 '24
Variable-speed winches with William-Janney gear. il diags Engineering 118:211-13 Ag 8 '24
See also Windlass

WINCHESTER-SIMMONS company, New Haven, Conn.
Work of the Winchester-Simmons company. il Ind Eng 82:262-3 Je '24

WIND. See Winds

WIND balance. See Aerodynamic balances

WIND motors
Aerodynamo; a new wind-power machine. A. J. V. Underwood. il diag Elec R (Lond) 96:166-7 Ja 30 '25

WIND motors—*Continued*
Schnellaufende windmotoren. K. Bilau. il diag Elektrotech Zeit 46:1405-7 S 10 '25
Wind-locomotive. I. P. Church. diags Sibley J 38:214-16+ D '24; Abstract. Sci Am 132: 407 Je '25
See also Windmills

WIND power
Ein fortschritt in der ausnutzung der windkraft zur erzeugung elektrischer energie. H. Nottelmann. il diag Elektrotech Zeit 46: 365-8 Mr 12 '25
Klein-windkraftanlagen für überseeländer. K. Lubowsky. il Elektrotech Zeit 46:949-53 Je 25 '25; Abstracts. Electrician 95:447 O 16 '25; Mech Eng 47:849-50 O '25
Ein neues regelverfahren für windkraftwerke. R. Bosselmann. il diags Zeit Ver Deutsch Ing 68:48-52 Ja 19 '24
Windkraft. P. v. d. Sterr. diags Zeit Ver Deutsch Ing 68:106-8 F 2 '24
Die wirtschaftliche ausnutzung der windenergie. H. Hullen. diags Zeit Ver Deutsch Ing 69:132-3 Ja 31 '25
See also Wind motors; Rotor ships; Rotors, Wing; Windmills

WIND pressure
Effect of wind pressure on the top curbs of tanks for spirally-guided gas-holders. A. Gadd. diags Gas J (Lond) 169:461-2 F 25 '25
Illinois tornado effects studied by engineers. il diag map Eng N 94:982-7 Je 11 '25
Introduction to a study of the wind. R. Fleming. Can Eng 49:125-6 Jl 14 '25
Measurement of the pressure of the wind on structures. T: E. Stanton. Engineering 118: 800 D 12 '24
Report on effects of tornado of March 18, 1925. il diags map W Soc E J 30:373-94 S '25; Excerpt. Am Arch 128:373-4 O 20 '25; Discussion. W Soc E J 30:394-6 S '25
Wind pressures on large areas. Eng & Contr (Bldgs) 63:1154 My 27 '25
Wind pressures on structures. T. E. Stanton. Can Eng 49:338 S 22 '25
Wind stresses in steel mill buildings. R. Fleming. diags Engineering 119:65-9, 123 Ja 16, 30 '25
See also Air resistance

WIND tunnels
Aeronautical research. il Can Eng 46:255-6 F 19 '24
Discussion on the use of the wind channel to aircraft designers. Roy Aeronautical Soc J 29:93-9 F '25
Full scale wind tunnel. E. R. Dawley. il Aviation 19:212 Ag 24 '25
High-speed wind tunnels. il diag Sci Am 133: 275+ O '25
New air balance and small wind tunnel. A. Merrill. il diag Aviation 18:350-1 Mr 30 '25
Resistance of spheres in wind tunnels and in air. D. L. Bacon and E. G. Reid. bibliog il diags U S Nat Advisory Com for Aeronautics 1923:471-87 '24
Wind-channels in aerodynamics. N. K. Bose. Philos Mag 6th ser 49:808-17 My '25

WINDING
Winding warp and filling yarn. G: W. Foster. Textile World 65:4078-80 Je 21 '24

WINDING engines
Die fahrtregler der dampffördermaschinen. H. Hoffmann. diags Zeit Ver Deutsch Ing 68: 1214-18 N 22 '24
Fördermaschinenantrieb durch asynchronmotor. diags Elektrotech Zeit 45:983-4 S 11 '24
Leonard-fördermaschinen mit abschaltung des umformers durch den betriebsbremshebel. diags Elektrotech Zeit 45:1065-6 O 2 '24

WINDING machines
Automatic coil-winding machine. A. A. Dowd. diags Mach 31:964-6 Ag '25
Power windups. W: H. Larkin, jr. il Rubber Age 18:20-3 O 10 '25

WINDLASS
New electro-hydraulic drive for windlass. il Marine R 55:194 My '25

WINDMILLS
Flettner proposes huge wind station. il Power 61:394 Mr 10 '25
Savenius wing rotor; a further application of the Magnus effect to windmills and to boat propulsion. A. Klemin. il diags Mech Eng 47:911-12 N '25
Velocity of wind in conical ducts. A. Thom and J. Small. diags Engineer 139:262-3 Mr 6 '25
Wind-driven electric lighting plant. E. A. Whittaker. il diags Engineering 116:571-2 N 2 '23
Wind-driven electrical and other installations. il diag Engineer 137:318 Mr 21 '24
Wind-driven generators. W. Stirling. diags Inst E E J 61:1096-9 O '23
Wind power for farm electric plants. F. J. Pancratz. Mech Eng 46:675-80; Discussion. 680-2 N '24
Windmills. F. Brangwyn and H. Preston. 126p Dodd '23
Windmills generate signal current. il Ry R 77:715 N 7 '25

WINDOW cleaning
New wrinkle in factory window-cleaning. P. A. Paulson. il Factory 35:600+ O '25
Saving in window washing. S. H. Hamilton. Factory 32:418+ Mr '24

WINDOW display advertising association
Annual convention, 1st, Cleveland, Sept. 29-Oct. 1. Ptr Ink 128:104 Ag 21; 64+ O 2 '24

WINDOW display contests. See Show windows—Contests

WINDOW displays. See Show windows

WINDOW grilles
Window grilles for the Spanish type house. il Bldg Age 47:144 Ja '25

WINDOW refrigerators. See Refrigerators, Window

WINDOW sashes
Report on the relative merits of steel and wood sash. Ry R 79:770-1 O 24 '25
Setting steel windows in block walls. J: K. Blitz. diag Concrete 27:35 N '25
Shading of steel sash. L. J. Steffen. il Textile World 65:3810+ Je 7 '24
Steel sash—more light. R. S. Bishop. il Management & Adm 9:27-8 Ja '25
Windows: tools of production. K. D. Hamilton. il Factory 34:920-4+ Je '25

WINDOW shades
Shading of steel sash. L. J. Steffen. il Textile World 65:3810+ Je 7 '24

WINDOW weights
Many methods for making window weights. Foundry 53:885 N 1 '25

WINDOWS
Air leakage around window openings. C. C. Schrader. diag Am Soc Heat & V E J 30: 465-74 Je '24; Abstract. Heat & Ven 21:67-8 Jl '24
Air leakage around windows—how it is figured. Y. Adams. Sanitary & Heat Eng 103: 178-9, 218-20 Mr 20-Ap 3 '25
Air leakage through the openings in buildings. F. C. Houghten and C. C. Schrader. il diags Am Soc Heat & V E J 30:121-34 F '24; Same. Am Arch 125:161-9 F 13 '24; Same. Arch Forum 40:sup69-72 Mr '24; Same. Sanitary & Heat Eng 101:163-6, 206-9 Mr 21-Ap 4 '24; Abstracts. Heat & Ven 21:54-7 F '24; Am Inst Arch J 12:153+ Mr '24
Basement window details for masonry construction. J. T. Pomeroy. diags Bldg Age 46:109 N '24
Bringing daylight through the walls. W. S. Brown. il diags Am Arch 126:345-52 O 8 '24
Build ye better. E. McCullough. il Bldg Age 46:102+ N '24
Casement window details for frame construction. diags Bldg Age 47:119 Ap '25
Casement window details for masonry construction. J. T. Pomeroy. diags Bldg Age 47:127 Mr '25
Casement windows for the English cottage. il Arch Forum 42:37-40 Ja '25
Daylighting from windows. H. H. Higbie and G. W. Younglove. diags Illum Eng Soc 19: 235-68 Mr '24

WINDOWS—*Continued*
Details of steel cellar windows; diagrams. Bldg Age 47:109 Jl '25
Distinctive windows. C: A. Byers. il Bldg Age 46:64-6 Mr '24
Double hung windows for frame construction; drawn by J. T. Pomeroy. Bldg Age 47:129 F '25
English parish church and its details. R. M. Blackall. il diags plans Arch Rec 58:19-25, 116-27 Jl-Ag '25
Fenestra counterbalanced window. il diag Arch & Bldg 56:64-5 Je '24
Further data on infiltration of air through building openings. C. C. Schrader. diags Am Soc Heat & V E J 31:1-4 Ja '24; Abstract. Heat & Ven 22:74-5 F '25
Getting the long-time dividend from factory windows. K. D. Hamilton. il Factory 35: 42-6+ Jl '25
Italian renaissance details; a series of measured drawings by Howard Moïse. il diags Arch Forum 39:283-4 D '23
New sizes of sash, door and millwork. Arch & Bldg 57:45 My '25
Novel, decorative method for leaded glass. L. V. Solon. il Arch Rec 57:283-5 Mr '25
Reducing heat waste through windows and doors. C: L. Hubbard. diags Bldg Age 47: 128-9+ My '25
Scale detail of the Florentine window and balcony, new Arrowhead inn. Arch Forum 41: 274 D '24
Short cut lessons on interior decoration for builders. H. M. Fisher. il Bldg Age 46:72 Ag '24
Short cut lessons on interior decoration for builders. H. Messinger. diags Bldg Age 46: 60 S '24
Window design and measurement and predetermination of daylight illumination. P. J. Waldram and J. M. Waldram. diags Illum Engr 16:90-117; Discussion. 117-22 Ap '23
Windows: tools of production. K. D. Hamilton. il Factory 34:920-4+ Je '25

See also Automobiles—Windows; Car windows; Glass; Show windows; Skylights; Stained glass; Window sashes

Tables, calculations, etc.

Practical daylight calculations for vertical windows. W. S. Brown. diags Am Arch 128: 281-7 S 23 '25
Sash and trim table that saves time. A. Korte. Bldg Age 46:77 S '24

WINDOWS, Opening of
Opening windows by pressing buttons. B. S. Havens. il Factory 35:106+ Jl '25

WINDS
Effect of wind and waves on propulsion of ships. J. L. Kent. Marine Eng 29:536-42 S '24
Die erforschung der windverhältnisse. M. Rosenmüller. il diags Zeit Ver Deutsch Ing 68: 177-9 F 23 '24
High altitude winds. Aviation 19:392 S 28 '25
Kritische bemerkungen zur windstatistik in Deutschland und zur kenntnis vom wetter bei technikern. C. Kassner. Zeit Ver Deutsch Ing 68:179-80 F 23 '24
Origin and classification of the winds. R. Fleming. Can Eng 49:335-7 S 22 '25
Turbulence and vertical temperature difference near trees. L. F. Richardson. Philos Mag 6th ser 49:81-90 Ja '25
Way of the wind. W. J. Humphreys. diags J Fr Inst 200:279-304 S '25
Windmesseranlage des deutschen museums in München. E: Becker. il Zeit Ver Deutsch Ing 69:1255-6 S 26 '25

See also Cyclones; Monsoons; Tornadoes

WINDSHIELDS. See Motor buses—Windshields

WINE
Les troubles des vins blancs. L: Mathieu. Chimie & Ind 10:847-8 N '23

WING rotor. See Rotors, Wing

WINNER, South Dakota

Water supply
Water-works improvement at Winner. G: T. Prince. Munic & Co Eng 67:229-31 N '24; Same. Eng & Contr (W W) 62:1298-90 D 10 '24

WINNIPEG grain exchange
Canada vindicates her grain exchanges. W. G. Cates. Comm & Fin 14:374 F 25 '25

WINONA Lake, Indiana

Water supply
Typhoid traced to cross connections at Winona Lake, Ind. Eng & Contr (W W) 64:858 O 14 '25

WINSTON-SALEM, North Carolina
Metropolis of tobacco land. G. Garrison. il Comm & Fin 13:1559-61 Ag 20 '24

WINTER construction
Bad weather and brick laying. Am Ind 25:34 Ja '25
Building construction in winter. D. Bremner. Can Eng 46:231-2 F 12 '24
Building construction in winter. C. D. Harrington. Can Eng 48:191-2 F 3 '25; Same. Eng & Contr (Bldgs) 64:703-6 S 23 '25
Building during winter months. A. L. Alschuler. Arch Forum 40:sup75-6 F '24
Construction seasonal peaks and valleys; methods and costs. J. W. Robinson. il Eng & Contr (Bldgs) 61:1378-80 Je 25 '24
Electric heat aids contractor in laying cold weather masonry. il Eng N 94:824 My 14 '25
Fast work is feature of Buffalo winter construction; 8-story reinforced-concrete and brick building. il Eng N 93:368-71 S 4 '24
Importance of winter building in the construction industry; erection of the Standard oil building, New York. il chart plan Am Arch 127:31-8 Ja 14 '25
Laying brick in cold weather. W: Carver. Bldg Age 45:63+ D '23
Profitable winter work. D. R. Van Horn. il Bldg Age 46:137+ N '24; 47:130-1 Ja '25
Reducing unemployment in building trades. A. P. Greensfelder. Bldg Age 45:70+ N '23
12 months' construction season. F. D. Roosevelt. Eng & Contr (Bldgs) 61:188 Ja 23 '24
Winter building activity. Comm M 5:12-14 Mr '24
Winter building and how to do it. il Bldg Age 47:102-3 N '25
Winter building assured success. Brick & Clay Rec 67:637 O 27 '25
Winter construction as the contractor regards it. C. S. Hill. il Eng N 93:532-5, 588-90, 632-5, 674-5 O 2-23 '24
Winter sewer construction in Worcester, Mass. R. G. Lingley. il Eng & Contr (W W) 63:1021-4 My 13 '25
Winter stops work but 14 days. J. R. Kilpatrick. Concrete 24:76 F '24; Same. Eng & Contr (Bldgs) 61:488-9 F 27 '24

See also Concrete construction in winter

WINTER flying. See Aviation—Winter flying

WINTER resorts
Sales opportunities among the winter playgrounds. il Sales Management 7:1545-8 S '24

WINTER sports
Winter sports serve to promote community health. M. T. Wood. il Nation's Health 6:77-9 F '24

WIPING cloths
United States government master specification for colored cotton rags for wiping machinery (sterilized). U S Bur Stand Circ 261:1-3 '25
United States government master specification for wiping cloths. U S Bur Stand Circ 267: 1-3 '25

WIRE
Fine wire to support great bridge being erected across the Delaware river to link Philadelphia and Camden, N.J. Iron Tr R 75:537 Ag 28 '24
Method of drawing metallic filaments and a discussion of their properties and uses. G. F. Taylor. Phys R 23:655-60 My '24

WIRE—*Continued*
25,000 miles of wire for Delaware river bridge. Eng & Contr (Bldgs) 62:460 Ag 27 '24

See also Cables; Electric wire; Fourdrinier wire; Trolley wire

Manufacture

British wire-drawing and wire-working machinery. il diag plan Engineer 138:72-4, 109-12, 130-1, 164-6, 189-93, 218-19, 234-6, 238, 258-61, 317-19, 345-7, 375-7, 405-8, 410, 432, 433-4, 438, 500-2, 520-1, 577-8, 610-12, 637-40, 642, 675-7, 690-1 Jl 18-S 5, 19-O 17, 31-N 7, 21-D 19 '24

Die herstellung der flusseisen- und stahldrähte. H. Altpeter. il diags Stahl & Eisen 45:569-81, 614-25, pl 21, 23-5 Ap 16-23 '25

New galvanizing process for iron wire. diag Brass W 21:350 O '25

New method for zinc coating wire. J. L. Schueler. Am Electrochem Soc Trans v 47 (preprint 2):19-30 Ap '25; Same. Brass W 21:210-13 Je '25; Same abr. Metal Ind 23: 364-6 S '25; Excerpts. Iron Age 116:96 Jl 9 '25

Waterbury Farrel improved wire flattening mill. il Am Mach 61:750 N 6 '24; Iron Age 114:1201 N 6 '24

Wire flattening. il diags Engineer 139:193-6 F 13 '25

See also Wire drawing machines

WIRE, Bookbinder
Large uses of steel in small ways. il Iron Tr R 76:1123 Ap 30 '25

WIRE, Brass
Annealing brass and bronze wire. W. J. Pettis. Metal Ind 23:4 Ja '25

WIRE, Copper

Manufacture

Copper wire production; some notes on electrolytic methods of manufacture. S. Cowper-Coles. il diags Electrician 92:658-60 My 30 '24

Copper wire rod rolling mill at Brockville. il Can Eng 47:411-15 O 14 '24

Manufacture of copper wire. W: J. Pettis. il diag Metal Ind 22:309-10 Ag '24

Specifications

Proposed specification for soft or annealed copper wire. Soc Auto Eng J 14:637-8 Je '24

Standard specifications for hard-drawn copper wire. Am Soc T M Standards 1923:7-11

WIRE, Steel
Die lineare umwandlungsgeschwindigkeit der perlitbildung. G. Tammann and G. Siebel. Stahl & Eisen 45:1202-5 Jl 9 '25

See also Wire, Bookbinder

Manufacture

Aus theorie und praxis der stahldraht-herstellung. A. Pomp. il diags Stahl & Eisen 45:777-85, pl 26-7; Discussion. 785-6 My 21 '25

Einfluss von ziehgeschwindigkeit, querschnittsabnahme und kohlenstoffgehalt auf die mechanischen eigenschaften gezogener stahldrähte; kraftbedarf beim ziehen. H. Eicken and W. Heidenhain. Stahl & Eisen 44:1687-94 D 18 '24

Electric furnace for continuous hardening and tempering wire. R. H. MacGillivray. il Am Electrochem Soc Trans v 46 (preprint 10): 149-51 O '24; Same. Iron Tr R 75:1373-4 N 20 '24; Same. Elec W 84:1210-11 D 6 '24

Die herstellung der flusseisen- und stahldrähte. H. Altpeter. Stahl & Eisen 45:614-25, pl 23-5 Ap 23 '25

Story of steel. il plan Sci Am 131:252-3+ O '24

Wire-drawing and the cold working of steel. A. T: Adam. 212p H. F. & G. Witherby, London '25

Wire mill uses city gas for fuel. J. M. Layng. il Iron Age 116:275-8 Jl 30 '25; Same. Gas Age 56:409-10+ S 19 '25

Testing

Detecting flaws by magnetic analysis. R. L. Sanford. diag Elec W 86:309-10 Ag 15 '25

Effect of stress on the magnetic properties of steel wire. R. L. Sanford. U S Bur Stand Sci Pa 496:681-95 '24

Essais au cisaillement de fils d'aciers pour cables. Cretin and Seigle. diags Génie Civil 84:327-8 Ap 5 '24

Wire drawing and properties of the steel. G: F. Comstock. Iron Age 114:621-4, 705-7 S 11-18 '24

WIRE annealing machines
Lecfur wire annealing machine. il Metal Ind 22:78 F '24

WIRE cloth
La standardisation des tissus métalliques; unification des diagrammes de broyage. C. Ratel. diags Chimie & Ind 12:16-30 Jl '24

Wire cloth to be standardized; tentative report. Soc Auto Eng J 13:502-3; 14-338-9, 629-30 D '23, Mr, Je '24; Excerpt. Am Mach 61:176 Jl 31 '24

WIRE drawing machines
British wire-drawing and wire-working machinery. il diags Engineer 138:109-12, 130-1, 164-6, 189-93, 218-19, 234-6, 238, 258-61, 317-19, 345-7, 375-7, 405-8, 410, 432, 433-4, 438, 500-2, 520-1, 577-8, 610-12, 637-40, 642, 675-7, 690-1 Jl 25-S 5, 19-O 17, 31-N 7, 21-D 19 '24; Abstract (Englische drahtzieh- und drahtverarbeitungsmaschinen). Stahl & Eisen 45:1249-53 Jl 16 '25

Increasing wire-drawing speed. K. B. Lewis. Iron Age 116:1028-9+ O 15 '25

Six-block continuous wire drawing. il diags Iron Age 115:972-3 Ap 2 '25

Vaughn compact wire-drawing machine. il Iron Age 115:1645 Je 4 '25

Wire flattening. il diags Engineer 139:193-6 F 13 '25

WIRE fence

Manufacture

British wire-drawing and wire-working machinery. il diags Engineer 138:234-6 Ag 29 '24

WIRE forming machines
Making wrench handles from wire. il diags Mach 30:696-9 My '24

Planning wire-forming operations. F. H. Mayoh. diags Mach 32:52 S '25

WIRE glass
Die maschinelle herstellung von drahtglas. R. Simon. il diags Zeit Ver Deutsch Ing 68:509-14 My 24 '24

WIRE rods

Manufacture

British wire-drawing and wire-working machinery. il diag plan Engineer 138:72-4 Jl 18 '24

WIRE rope
American Tru-lay wire rope and Tru-loc fittings. il Am Mach 62:559 Ap 2 '25; Blast F & Steel Pl 13:166 Ap '25; Coal Age 27: 527-8 Ap 2 '25; Eng & Min J 119:626 Ap 11 '25; Ry Age 78:1035-6 Ap 25 '25; Nat Safety N 12:46 Ag '25

Capacity of drums for wire rope. H: C. Ord. diag Am Mach 59:961 D 27 '23

Care of wire rope. C: H. Paul. Eng & Contr (G C) 64:882 O 21 '25

Care of wire ropes. Pub Works 55:246-7 Ag '24

Causes of deterioration in wire hoisting rope. R. L. Sanford. Power 58:1031-2 D 25 '23

Correct lay for wire lines used upon oil wells. J. T. Hayward. Engineer 138:593 N 21 '24; Discussion. P. H. Mangin. 138:609 N 28 '24

Les différents types de câbles ronds en acier utilisés pour l'extraction dans les mines. Génie Civil 84:213-14 Mr 1 '24

Horsepower transmitted by wire rope. W. F. Schaphorst. chart Power Pl Eng 29:658 Je 15 '25

Longevity of the wire rope as influenced by the lay. R. Woernle. bibliog Cassier's Ind Management 12:111-15 Ja '25

Measuring the diameter of a wire rope. diag Eng & Contr (Bldgs) 64:471 Ag 26 '25

Prolonging life of wire rope. W: Constable. Can Eng 47:217-19 Ag 5 '24

WIRE rope—*Continued*
The rope; its use in mechanical handling machinery. T. E. Dodds. Electrician 91:731 D 28 '23
Socketing wire rope for hoisting and hauling. J. B. Petrie. diags Power Pl Eng 29:963-4 S 15 '25
Wire cable developed—will not unstrand il Marine R 55:230-1 Je '25
Wire ropes. G. H. Griffiths. Cassier's Ind Management 12:253+ Ap '25
See also Cables

Cost
Cable costs in dragline excavator operations. C: H. Paul. Eng & Contr (G C) 64:915 O 21 '25

Manufacture
How wire rope is manufactured and used and how its life may be prolonged in mine service. L. W. Bevan. il Coal Age 25:872-5 Je 12 '24

Specifications
United States government master specification for wire rope. il diags U S Bur Stand Circ 208:1-37 '25; Excerpt. Mach 32:381 Ja '26

Standards
Report of special committee on the standardization of wire rope and manila cordage. Am Pet Inst Bul 5:48-52 D 31 '24
Special committee on the standardization of wire rope and manila cordage appointed by the board of directors of the American petroleum institute. Am Pet Inst Bul 6:70-83 S 4 '25

Testing
Effect of stress on the magnetic properties of steel wire. R. L. Sanford. U S Bur Stand Sci Pa 496:681-95 '24
Die hin- und her-biegeprobe für förderseildrähte. Zeit Ver Deutsch Ing 69:114 Ja 31 '25
Second report of the wire ropes research committee. Engineering 118:856-60; 119:20-1 D 26 '24-Ja 2 '25; Same cond. Engineer 138:719-21 D 26 '24; Abstract. Mech Eng 47:206-7 Mr '25; Discussion. Engineering 118:867-9; 119:143-5 D 26 '24, Ja 30 '25; Engineer 139:128 Ja 30 '25
Seeking a non-destructive method for testing wire rope. Sci Am 130:105 F '24

WIREBOUND boxes. See Boxes, Wirebound

WIRED wireless. See Telegraph, Carrier current; Telephone, Carrier current

WIRELESS. See Radio

WISCONSIN
See also Income tax—Wisconsin; Motor bus lines—Wisconsin; Railroads—Wisconsin; Roads—Wisconsin; Securities—Wisconsin; Taxation—Wisconsin

Industries and resources
Place of the Wisconsin market in your 1924 sales plans. M. A. Holliday. il Sales Management 6:457-8+ Ja '24
See also Gasoline industry—Wisconsin; Iron industry and trade—Wisconsin; Water power—Wisconsin

WISCONSIN Central railway
Annual report for the fiscal year ended December 31, 1924. Ry Age 78:1306 My 23 '25
Wisconsin Central 1st gen. 4s, 1949. Moody's Inv Serv 17:364 N 5 '25

WISCONSIN dairying, incorporated
Bankers back dairymen in big advertising effort; Wisconsin cheese producers. C. M. Harrison. Ptr Ink 126:41-2+ Ja 3 '24

WISCONSIN independent oil jobbers
Wisconsin independents to try the press for association advertising. W. K. Halbert. Nat Pet N 17:23-4 Ja 21 '25

WISCONSIN river
River regulation determined by hydraulic experiments. il diags Eng N 93:429-31 S 11 '24

WISCONSIN society of plumbing inspectors
Annual convention, 4th, Sheboygan, June 7-8. Dom Eng 107:51-2 Je 21 '24

WISCONSIN utilities association
Annual meeting, Milwaukee, April 17-18. Elec Ry J 63:658-60 Ap 26 '24
Annual meeting, Milwaukee, April 16. Elec Ry J 65:660-1 Ap 25 '25

WITNESSES
Engineer as an expert witness. C: H. Young. Munic & Co Eng 66:93-5 F '24; Same cond. Eng N 92:329 F 21 '24
Some rights and duties of witnesses. J: W. Alvord. W Soc E J 30:108-12 Mr '25

WOLFE, Reynold
Tribute to a worthy printer in a preface of a book printed in 1578. H: L. Bullen. Inland Ptr 73:89-90 Ap '24

WOLFRAMITE
Continuous process for manufacture of sodium tungstate and tungstic acid from wolframite. N. T. Gordon and A. F. Spring. bibliog il diags Ind & Eng Chem 16:555-62 Je '24

WOMAN
Dealing with fair woman. C: R. Wiers. Sales Management 7:1343-4 Ag '24
See also Business women; Farm women

Employment
Aftereffects of industrial accidents upon women. Monthly Labor R 20:402-4 F '25
Average weekly earnings of men and women in New York state factories. Monthly Labor R 17:1095-6 N '23
Employment of women in coal mines of India. Monthly Labor R 20:562 Mr '25
Facts about working women; a graphic presentation based on census statistics and studies of the Women's bureau. charts U S Women's Bur Bul 46:1-64 '25
Family status of breadwinning women in four selected cities. U S Women's Bur Bul 41: 1-145 '25; Review. Monthly Labor R 20:1266 Je '25
Home environment and employment opportunities of women in coal-mine workers' families. U S Women's Bur Bul 45:1-61 '25; Abstract. Monthly Labor R 21:333-4 Ag '25
Influence of industry on health of women workers. G: Gellhorn. Nation's Health 7: 165-8+ Mr '25; Abstract. Monthly Labor R 20:1062-4 My '25
International conference of women in science, industry and commerce, 1st, Wembley. Electrician 95:89-90 Jl 24 '25; Elec R (Lond) 97: 158-9 Jl 24 '25
Is women's employment increasing? Economist 99:264-5 Ag 16 '24
Legislation for women in Oregon. Monthly Labor R 19:827-9 O '24
Married women in industry. M. N. Winslow. U S Women's Bur Bul 38:1-8 '24
Proceedings of the Women's industrial conference. U S Women's Bur Bul 33:1-190 '23
Protective labor legislation, with special reference to women in the state of New York. E. F. Baker. (Columbia univ. Studies in history, economics and public law) 467p Longmans '25
Radio talks on women in industry. U S Women's Bur Bul 36:1-34 '24
Report of English factory inspectors on women's work. Monthly Labor R 19:590-1 S '24
Standard and scheduled hours of work for women in industry. U S Women's Bur Bul 43:1-68 '25
State laws affecting working women. charts maps U S Women's Bur Bul 40:1-53 '24
Trend of employment of men and women in specified industries. E. Stewart. Monthly Labor R 20:739-50 Ap '25
Two-shift system for women in English industry. Monthly Labor R 21:548-50 S '25
Wages and dependents of women in Oregon industries. Monthly Labor R 20:560-1 Mr '25
Ways of a business woman. M. L. Norris. 186p Gage ptg. co., Battle Creek, Mich. '24
What is giant power for? M. B. Bruère. Ann Am Acad 118:120-3 Mr '25

WOMAN—Employment—*Continued*
Woman and child labor in Maryland, 1924. Monthly Labor R 21:97 Jl '25
Woman and leisure. L. Pruette. 225p Dutton '24
Women in Alabama industries. U S Women's Bur Bul 34:1-86 '24; Abstract. Monthly Labor R 19:400-2 Ag '24
Women in Missouri industries. diags U S Women's Bur Bul 35:1-127 '24; Abstract. Monthly Labor R 19:1074-6 N '24
Women in New Jersey industries; a study of wages and hours. U S Women's Bur Bul 37: 1-99 '24
Women in Ohio industries; a study of hours and wages. U S Women's Bur Bul 44:1-137 '25; Abstract. Monthly Labor R 20:837-8 Ap '25
Women in South Carolina industries. U S Women's Bur Bul 32:1-128 '23
Women in the leading industries of Bengal. Monthly Labor R 19:591-5 S '24
Women in trade-unions. Monthly Labor R 19: 398-400 Ag '24
Women no longer tolerated. C. Clark. N E L A Bul 11:745-6 D '24
Women trade unionists in the United States. A. G. Maher. Int Labour R 11:366-80 Mr '25
Working women in Brattleboro, Vt. Monthly Labor R 21:98-101 Jl '25

See also Business women; Day nurseries, Factory; Home labor; Hours of labor; Minimum wage; Saleswomen; Women as accountants: Women as machinists; *also* International federation of working women; International ladies' garment workers' union

Health and hygiene

Safeguarding the health of the women in industry. C. T. Brown. il Nation's Health 7:626-7 S '25

Occupations

Training for the professions and allied occupations; facilities available to women in the United States. 742p Bur. of vocational information, New York '24
What the women are doing for the electric industry. S. Malicki. N E L A Bul 12:78-80 F '25
When a woman searches for the sales angle. M. Higley. Ptr Ink 129:119-20+ O 2 '24
Woman-electricity-genius. H. E. Steiner. Pub Serv Management 37:72-4 S '24
Woman's chance in advertising agency work. Ptr Ink 127:153+ My 1 '24
Woman's possibilities in the jobbing field. M. T. Stevens. Sanitary & Heat Eng 104:210-11 O 2 '25

See also Women as bankers, etc.

Bibliography

Vocations for college women. 16p American library assn., Chicago '25

Great Britain

Report of English factory inspectors on women's work. Monthly Labor R 19:590-1 S '24

India

Women in the leading industries of Bengal. Monthly Labor R 19:591-5 S '24

WOMEN and politics
Sex cleavage in the presidential election of 1920. M. M. Willey and S. A. Rice. Am Statis Assn J 19:519-20 D '24
Women in office. Comm & Fin Chr 119:2455-6 N 29 '24

WOMEN as accountants
Women in accountancy. J Account 36:443-5 D '23

WOMEN as bankers
Helping the men to carry the load. Bankers M 111:411-12 S '25

See also Banks and banking—Women's departments; *also* Association of bank women

WOMEN as contractors
And now the woman builder! il plans Bldg Age 47:98-9 Jl '25

WOMEN as inventors
Study in feminine invention. il Sci Am 131:260 O '24

See also Henry, Beulah Louise

WOMEN as machinists
Retaining the right type of girl machinists. Cassier's Ind Management 12:336-7 Je '25

WOMEN as printers
In three years; a story of a woman and the printers of Chiapolis. R. T. Porte. Inland Ptr 75:230-2 My '25

WOMEN'S electrical association
New organisation formed in England to further domestic uses of electricity. Electrician 93:588 N 21 '24

WOMEN'S industrial conference
Proceedings, Washington, D.C., Jan. 11-13, 1923. U S Women's Bur Bul 33:1-190 '23

WOMEN'S-wear shops
Symposium on store lighting; semi-exclusive women's-wear shop. C: D. Poey and others. plans Illum Eng Soc 20:327-41; Discussion. 342-51 Ap '25

WOMEN'S world fair, Chicago
Women's world fair opened in Chicago. Comm & Fin Chr 120:2102 Ap 25 '25

WOOD, Jarvis A., 1854-1925
Death of Jarvis A. Wood. por Ptr Ink 131:33-4+ Ap 16 '25

WOOD
American woods in France. A. H. Oxholm. U S Bur For & Dom Com Trade Information Bul 323:1-20 '25
Australian wood fibers. C. J. West. Paper Tr J 80:45 F 26 '25
Causes of surface checks in wood in varnish-drying rooms. H. D. Tiemann. il Soc Auto Eng J 15:431-6 N '24; Abstract. Automotive Ind 51:764 O 30 '24; Discussion. Soc Auto Eng J 16:523-7 My '25
Chemical changes of groundwood during decay. M. W. Bray and T. M. Andrews. Ind & Eng Chem 16:137-9 F '24
Chemical utilization of wood in Washington. H: K. Benson, T: G. Thompson and G: S: Wilson. Washington U Eng Exp Sta Bul 19: 1-160 N '23
Chemistry of lignin; a comparison of lignins derived from various woods. W. J. Powell and H: Whittaker. Chem Soc J 127:132-7 Ja '25
Chemistry of the sulfite process; studies of the acid hydrolysis of wood. R. N. Miller and W. H. Swanson. diag Ind & Eng Chem 17:843-7 Ag '25; Same. Paper Tr J 81:53-7 S 10 '25
Distribution of lignin in wood. G: J. Ritter. il Ind & Eng Chem 17:1194-7 N '25
Effect of presteaming on the hydrolysis of wood. E. C. Sherrard and J. C. Closs. il Ind & Eng Chem 17:847-9 Ag '25
How various woods resist decay. Chem & Met Eng 30:50 Ja 14 '24
Microscopic structure of softwood. il Eng N 92:861 My 15 '24
Physical properties of materials; strengths and related properties of metals and wood. diags U S Bur Stand Circ 101:1-204 [bibliog. p. 194-8] '24
Practical conservation of timber. il Chem & Met Eng 31:857-9 D 1 '24
Properties and uses of wood. A. Koehler. 354p McGraw-Hill '24
Relation between durability and chemical composition in wood. L. F. Hawley, L. C. Fleck, and C. A. Richards. Ind & Eng Chem 16: 699-700 Jl '24
Relative durability of native woods. Eng & Contr (Bldgs) 61:203 Ja 23 '24; Same. Elec Ry J 63:129 Ja 19 '24; Same. Eng & Min J 117:242 F 9 '24
Selection of best wood for highway crossings. J: Foley. Eng & Contr (Ry) 61:1112 My 21 '24
Shrinkage of wood. il Sci Am 132:430 Je '25
Sources of pulp in North America. G: J. Druckerman. Paper Tr J 78:44+ Je 5; 36+ Je 12 '24

WOOD—*Continued*

Study of the paint holding qualities of wood. il Eng & Contr (Bldgs) 62:711 S 24 '24

Timbers, their structure and identification. W. S: Jones. 148p Oxford '24

Use of wood in gas producers. C. Saxton. Am Cer Soc J 6:1219-23 D '23

Wood for automobile bodies. Soc Auto Eng J 15:384-6 N '24

Wood for automobile bodies. A. T. Upson and L. N. Ericksen. charts Soc Auto Eng J 14:165-70 F '24

You are setting forest fires in your own back yard. A. Bradbury. Ptr Ink M 9:33-4+ D '24

See also Cellulose: Douglas fir: Forest products; Forests and forestry; Hard woods; Lignin; Lumber; Oak; Pavements, Wood; Pine; Plywood; Poles; Printing on wood; Quebracho; Sawmills; Spruce; Timber; Walnut; Wood preservation; Wood pulp; Woodwork

Analysis

Chemistry of wood. G. J. Ritter. Ind & Eng Chem 15:1264-6 D '23

Determination of cellulose in wood. G. J. Ritter and L. C. Fleck. Ind & Eng Chem 16: 147-8 F '24

Determination of pentosans in wood cellulose. W. J. Powell and H: Whittaker. Soc Chem Ind J 43:35-6 F 22 '24

Modified method for determining cellulose in wood. G. J. Ritter. Ind & Eng Chem 16:947-8 S '24

Quantitative methods for the analysis of hemicellulose in apple wood. W. E. Tottingham and F. Gerhardt. Ind & Eng Chem 16: 139-40 F '24

Bibliography

Bibliography of the woods of the world. S: J. Record. 28p S. J. Record, New Haven, Conn. '22

Moisture content

Weight of wood and quantity of pulp. R. Sieber. Paper 33:7-10 Mr 13 '24

Testing

Form factors of beams subjected to transverse loading only. J. A. Newlin and G. W. Trayer. il diags U S Nat Advisory Com for Aeronautics 1923:377-93 '24

Internal stresses in laminated construction. A. L. Heim, A. C. Knauss and L: Seutter. il diags U S Nat Advisory Com for Aeronautics 1922:325-82 '23

Structural timbers; defects and their influence on strength. J. A. Newlin and R. P. A. Johnson. il Am Soc T M Pro 24 pt 2:975-87; Discussion. 988-9 '24

Useful strength of new, old and treated timber; appendix to report of A.R.E.A. committee. Ry R 76:611-13 Mr 28 '25

WOOD, Fossil

Climatologic significance of annual rings in fossil woods. E. Antevs. Am J Sci 5th ser 9:296-302 [bibliog. p. 300-2] Ap '25

WOOD, Substitutes for

Conservation of timber by use of substitutes. Ry R 75:990-2 D 20 '24

Manufacture of artificial wood. C. H. Proctor. Metal Ind 23:181 My '25

See also Balsam-wool

WOOD alcohol. See Methanol

WOOD as fuel

Bark driers and refuse burning. G: D. Bearce. diags Tech Assn Pa ser 7:60-1 Je '24; Same. Paper Tr J 79:39-40 Jl 17 '24

Boiler-room operation of wood-refuse-fired steam plants. C. C. Simeral. il diag Mech Eng 47:550-2 Jl '25

Burning hog fuel at Coos Bay plant. il diag Power 62:646-9 O 27 '25

Burning of wood refuse. R. L. Beers. il diags Tech Assn Pa ser 8:32-6 '25; Same. Paper Tr J 80:157+ F 5 '25; Same, without diags. Paper 35:72+ F 12 '25

18,000-kw. plant serves lumber company. il Power 60:638-41 O 21 '24

Furnace designs for coal and wood refuse. C. M. Garland. diags Power 61:406-9 Mr 17 '25

Furnaces for burning wet wood refuse. J. F. Nagle. diags Power 61:916-17 Je 9 '25

Furnaces for burning wood refuse. diags Power Pl Eng 28:68-70 Ja 1 '24

Generation of power with factory refuse. F. Johnstone-Taylor. diags Power Pl Eng 28: 326-8 Mr 15 '24

Holzfeuerung für Siemens-Martin-oefen. H. Kreutz von Scheele. diags Stahl & Eisen 45:516-18 Ap 2 '25

Lumber company plant burns refuse with coal. il diag plan Power Pl Eng 29:318-22 Mr 15 '25

New plant of American seating co. burns wood refuse. il diags Power 59:892-7 Je 3 '24

Refuse burning and bark driers. A. St Klein. diag Paper Tr J 79:43 S 18 '24

Standard unit of wood refuse. R. J. Gaudy. Power Pl Eng 29:475-6 My 1 '25

Turning a nuisance to profit. E. Winholt. il Factory 33:788+ D '24

Utilization of pulpwood bark for fuel. J: D. Rue and E. P. Gleason. il chart diags Tech Assn Pa ser 7:49-59 Je '24; Same. Paper Tr J 78:40-50 Ap 17 '24

Utilization of wood waste as fuel in steam power plants; abstracts. H. W. Beecher and others. il diags Mech Eng 47:545-54 Jl '25; Power 62:304-5 Ag 25 '25; Power Pl Eng 29: 837-40 Ag 15 '25; Discussion. Mech Eng 47: 773-5 S '25; Power Pl Eng 29:1016-17 O 1 '25

Wood-shop power costs reduced one-fifth by proper collection and use of mill refuse as a fuel, and rearrangement and selection of motors. M. G. Farrell. il diag Power Pl Eng 27:1174-7 D 1 '23

See also Boilers—Wood firing; Sawdust

WOOD carving

Wood-carving. J. C. S. Brough. 216p Lippincott

Wood carving in ecclesiastical architecture. il Am Arch 126:619-22 D 31 '24

WOOD distillation

Acetone by distillation of wood with lime. A. W. Schorger. Ind & Eng Chem 17:944 S '25

Case of unusual technical progress. Chem & Met Eng 32:112 Ja 19 '25

Census of manufactures: 1921. 11p U.S. Bur. of census, Washington '23

Les enseignements du dernier congrès de motoculture et des carburants nationaux. A. Guiselin. diags Soc Ing Civils Bul 78: 85-99 Ja '25

Examination of the dissolved tar from the carbonization of hard maple. L. F. Hawley and H. N. Calderwood, jr. Ind & Eng Chem 17:149-51 F '25

Highly reducing substances in fresh wood distillate. R. J. Williams, P. A. Lasselle, and H. A. Reed. Ind & Eng Chem 17:851-3 Ag '25

How the wood distiller dodges corrosion. flow sheet Chem & Met Eng 31:52-3 Jl 14 '24

Liquefaction of wood and cellulose and some general remarks on the liquefaction of coal. H. E. Fierz-David. Soc Chem Ind J (Chem & Ind) 44:942-4 S 25 '25

La production du charbon de bois pour les automobiles à gazogène. P. Razous. diags Génie Civil 86:607-11, 628-32 Je 20-27 '25

Wood distillation process; patent. diag Chem & Met Eng 31:709 N 3 '24

Wood distillation products output up in 1923. Oil Paint & Drug Rep 107:56 Ja 12 '25

WOOD drying. See Lumber drying

WOOD engravings

Eight modern French woodcuts. Am Inst Arch J 12:281-6 Je '24

History of wood engraving. J. W. Furner. il Inland Ptr 76:225 N '25

Modern woodcut. H. E. A. Furst. 271p John Lane, London, New York '24

Woodcuts and some words, by G. Craig. Review. Am Inst Arch J 12:490-1 N '24

WOOD finishing
Wood-finishing. H. R. Jeffrey. 177p Manual arts press '24
See also Duco finish

WOOD measurement
Pulp wood measurement. P. J. Murer. Paper Tr J 78:51-4 F 7 '24

WOOD oil
See Eucalyptus oil: Tung oil

WOOD pavements. See Pavements, Wood

WOOD pipes. See Water pipes, Wood

WOOD preservation
Arsenated petroleum oil as a wood preservative. W. L. Tanner. Ind & Eng Chem 17: 167 F '25
Beitrag zur beurteilung neuerer imprägnierverfahren. F. Moll. Elektrotech Zeit 46: 227-8 F 12 '25
Better penetration with zinc chloride. Eng & Contr (Ry) 62:616 S 17 '24
Building damaged by white ants. W. P. Flint. Eng & Contr (Bldgs) 64:714-15 S 23 '25
Chemical preservatives for timber. H. Maxwell-Lefroy. Chem Age (Lond) 10:193-4 F 23 '24
Der Cobra-imprägnierhammer, ein gerät zur erhaltung der holzmaste. R. Nowotny. il diag Elektrotech Zeit 46:533-4 Ap 9 '25
Creosoted timber in southern highway improvements. P. R. Hicks. il Manuf Rec 85: 79-80 Ja 10 '24
Creosoted wood blocks in 1923. Pub Works 55: 339 N '24
Demonstration of the value of treating cross ties. Ry Age 77:1124-5 D 20 '24
Deterioration of structures and timber, metal, and concrete exposed to the action of seawater; report of the Committee of the Institution of civil engineers. 78p Gt. Brit. Dept. of scientific and industrial research, London '23
Does paint preserve wood? H. D. Tiemann. il Sci Am 130:314-15 My '24
Economic value of car lumber preservation. F. S. Shinn. il Ry Mech Eng 98:546-7 S '24
Economy of preserving mine timbers. G. Sherman. Min Cong J 11:161-2+ Ap '25
Effect of kiln drying, steaming, and air seasoning on certain fungi in wood. E. E. Hubert. U S Agric Bul 1262:1-20 '24
Effect of preservatives on the inflammability of wood; report of A.R.E.A. committee. Ry R 76:615-17 Mr 28 '25
Experience and test results in wood preservation. Eng N 92:249 F 7 '24
Fence post tests on Santa Fe. Eng & Contr (Ry) 62:1351-2 D 17 '24
Financial aspect of tie preservation. H. S. Sackett. Ry Age 76:423-4 F 16 '24
Fungus bed test of wood preservatives. C. M. Chapman. il Am Soc T M Pro 23 pt 2:501-12; Discussion. 513-16 '23
Great increase in wood preservation; report of U.S. Forest service. Eng & Contr (Bldgs) 62:928 O 22 '24
How wood is treated. Chem & Met Eng 30: 152 Ja 28 '24; Same. il Eng & Contr (Ry) 61:815-17 Ap 16 '24
Das interesse der deutschen wirtschaft an der holzkonservierung. K: Schantz. Elektrotech Zeit 46:1067-71 Jl 16 '25
Is the treatment and use of partly decayed ties justified? W. H. Long. Ry Age 78: 365-6 F 7 '25
Making ties last longer. il Aera 13:1028-31 Ja '25
Methods of preserving poles and economies of pole treatment. L. R. Gamble. il J Elec 55: 325-9 N 1 '25
Mine timber; its selection, storage, treatment and use. R. R. Hornor, H. E. Tufft and G: M. Hunt. il diags U S Bur Mines Bul 235: 80-118, pl 12-17 '25
Modern pole-treating plant fills entire need. D. P. Mason. il diags J Elec 54:324-6 My 1 '25
More ties treated in 1923. Ry Age 77:812 N 1 '24
New tie-treating plant on the Oregon-Washington R.R. il diags plan Eng N 92:894-6 My 22 '24
New wood preservative introduced from Germany. Sci Am 132:336 My '25
New wood treating process. A. M. Howald. il Ry R 76:304-10 F 14 '25; Excerpts. Eng & Contr (G C) 63:819-22 Ap 17 '25
New zinc chloride process for the treatment of timber. Ry R 75:663 N 1 '24
Our water gas tar used as timber preservative. H. L. Olin and E. B. Crone. Gas Age 54:765-6+ N 29 '24
Overhead cranes serve new creosoting plant of Southern Pacific at Wilmington. il plan Ry Age 77:1055-8 D 13 '24
Performance of untreated cross ties. F. S. Pooler. Eng & Contr (Ry) 62:1329-30 D 17 '24
Preservation of wood from the attacks of termites. G. W. Herrick. Sibley J 37:130+ Je '23
Preservative treatment of ties on the Boston and Maine railroad. F. C. Shepherd. il Boston Soc C E J 12:101-27 Mr '25
Preservative treatment saves ties. Ry R 76: 833 My 2 '25; Eng N 94:844 My 21 '25
Pressure treatment of ties. Eng & Contr (Ry) 62:641-3 S 17 '24
Protecting wood against moisture and corrosion. H. Seymore. Chem Age (Lond) 10: 356-7 Ap 5 '24
Protecting wood from white ants. Eng & Contr (Ry) 63:141 Ja 21 '25
Railways and wood preservation. R. H. Aishton. Ry R 75:834-7 N 22 '24; Same cond. Ry Age 77:952-4 N 22 '24
Reconditioning ties in Australia. Eng & Contr (G C) 64:873 O 21 '25
Report of A.R.E.A. committee on wood preservation. Ry R 76:525-6 Mr 14 '25
Report of committee on wood preservation, A.R.E.A. Ry R 74:566-7 Mr 22 '24; Excerpt. Elec Ry J 63:510 Mr 29 '24
Report of the A.E.R.E.A. committee on wood preservation. Elec Ry J 66:625-6 O 10 '25
Report on the preservation of car lumber. Ry Age 78:366-7 F 7 '25; Ry R 76:422-5 Mr 7 '25
Results of a 14-year service test of treated ties on C.B. & Q.R.R. J. H. Waterman. Eng & Contr (Ry) 61:152-4 Ja 16 '24
Results of experiments in treatment of piling specimens against attack by marine borers. J. D. Maclean. il Eng & Contr (Ry) 61:626-34 Mr 19 '24
Results of 15 year service tests on treated ties on the C. B. & Q. J. H. Waterman. Eng & Contr (Ry) 63:347-9 F 18 '25
Salvage and use of old creosoted piles. S: Young. Eng & Contr (Ry) 62:399-400 Ag 20 '24
Santa Fe timber treating plant employs modern methods. il plan Ry Age 77:359-61 Ag 30 '24
Specifications for pole preservation. C. W. Nickerson. Elec W 85:410-11 F 21 '25
Steam versus vacuum treatment for preserving wood. Chem & Met Eng 30:315 F 25 '24
Swedish methods of impregnating poles. E. Hedenlund. il Elec W 83:373-5 F 23 '24
Timber preservation at the United Verde extension mining company. R. H. Marks. il Min Cong J 11:127-9; Discussion. 129-30 Mr '25
Timber preservation in 1922. Eng N 91:941 D 6 '23
Treated timber bridges in Wyoming. J. F. Seiler. Eng & Contr (R & S) 64:312 Ag 5 '25
Treating five charges of timber in eleven hours. il diag Ry Age 78:310-13 Ja 31 '25
Treating freight car timber will cut repairs. H. S. Sackett. il Ry Age 77:337-9 Ag 23 '24
Treating mine timbers with preservatives. G: M. Hunt. il diags Min Cong J 10:102-5 F '24
22 years life from petroleum treated ties in Hungary. C. M. Taylor. il Ry Age 77:1028 D 6 '24
Universal treatment of timber will save money. H. S. Sackett. Ry Age 76:1049-50 Ap 26 '24
Value of zinc treatment of wood. Elec W 85: 1402-3 Je 27 '25

WOOD preservation—*Continued*
Verbesserung der holztränkung durch anstechverfahren. R. Nowotny. il diags Zeit Ver Deutch Ing 68:1273-5 D 6 '24
What is the average life of ties? abstracts. W. F. Goltra. Ry Age 79:311-15 Ag 15 '25; Ry R 77:236-40 Ag 15 '25; Eng N 95:1034 D 24 '25; Discussion. Ry Age 79:387-8, 466 Ag 29, S 12 '25
When in doubt use treated timber. H. E. Tufft. il Eng & Min J 120:254 Ag 15 '25
When is rot not rot? W. H. Long. Ry R 76: 826-30 My 2 '25
Wolman salts for protecting timber against decay and spread of fire. J: G. Kreer. il Eng & Min J 118:714-15 N i '24
Wood preservation and reforestation advances reviewed by American mine institute. il Coal Age 25:491-2 Ap 3 '24
Wood preservation developments and investigations; reports at Wood preservers convention. Eng N 94:282-3 F 12 '25
Wood preservation reduces Santa Fe's tie renewals. Ry Age 78:874 Ap 4 '25
Wood-preservation research and the wood-preservation industry. Chem Age 32:313 Jl '24
Wood preservers show economy of treatment. il Ry Age 76:233-5 Ja 19 '24
Zinc chloride treatment for car timber and as tie preservative. H. von Schrenk. Ry R 74:169-70, 181-2 Ja 26 '24; Same cond. Eng N 92:891 My 22 '24

See also Creosote; Dry rot; Varnish and varnishing

Bibliography

Marine structures; their deterioration and preservation. W: G. Atwood and A. A. Johnson. p. 474-96 National research council, Washington, D.C. '24

WOOD pulp
Artificial pulpstones. W. W. Greenwood. il Tech Assn Pa ser 8:37-40 '25; Same. Paper Tr J 80:169+ F 5 '25; Same. Paper 35:78+ F 12 '25
Avoidable pulpwood losses. D. C. Everest. Paper 35:223+ N 27 '24
Bleaching of trade sulphate pulps and cotton with calcium hypochlorite solutions. A. Forster and S. A. Pearman. Soc Chem Ind J 44:233-41 My 15 '25
Bleaching of wood pulp. C. E. Curran and P. K. Baird. Tech Assn Pa ser 8:95-100 '25
Chemical changes of groundwood during decay. M. W. Bray and T. M. Andrews. Ind & Eng Chem 16:137-9 F '24
Control of decay and molding of wood pulp. C. A. Richards. il diag Tech Assn Pa ser 7:94-9 Je '24; Same. Paper Tr J 78:55-60 My 1 '24
Countercurrent digestion of wood. R. T. Haslam and W. P. Ryan. flow sheet diag Ind & Eng Chem 16:144-6 F '24
Decay of wood and groundwood pulp. M. W. Bray. Tech Assn Pa ser 7:91-3 Je '24; Same. Paper Tr J 78:58-60 Je 5 '24
Decayed wood for sulphite pulp. J: D. Rue, R. N. Miller, and C. J. Humphrey. il Paper Tr J 78:45-50 Ja 24 '24; Same. Paper 33:12-15 F 21 '24
Development in wood grinders towards achieving highest efficiency in producing mechanical pulp. O: J. Goeppinger. il diags Paper Tr J 78:43-8 Ja 10 '24
Development of equipment for making ground wood pulp. J. F. Clerc. il diags Chem & Met Eng 32:416-22 Ap '25
Economic factors in the pulping of wood wastes. J. D. Rue. Paper Tr J 79:45-6 O 16 '24
Fidalgo pulp mfg. co. starts sulphite pulp mill. il Paper Tr J 81:53-4 O 29 '25
How caterpillar grinders operate. diags Paper 34:516-17 Jl 10 '24
How the United States can meet its present and future pulp-wood requirements. E. H. Clapp and C: W. Boyce. il maps U S Agric Bul 1241:1-100 '24; Excerpt. Chem & Met Eng 31:193-5 Ag 4 '24; Abstract. Paper Tr J 79:47-50 Ag 7 '24
Joint pulp report of the associations. Paper Tr J 81:57-60 Jl 23; 53-8 Jl 30 '25
Madison laboratory at work on problem of pulping hard wood. il Paper 35:549 Ja 15 '25
Manufacture of mechanical pulp. I. H. Copeland. Paper 33:5-6 Mr 6 '24
Micrography of sweet gum pulp. L. Vidal. il Paper Tr J 81:49-50 Jl 16 '25
Modified method for the determination of the copper number (oxycellulose) of bleached pulps. P. D. Bray and Pao Chen Liu. diags Paper Tr J 80:49-53 My 28 '25
Our pulpwood needs. Paper 34:809-11 Ag 21 '24
Past year was perplexing one for pulp trade. O. F. Swanson. Paper Tr J 78:82-4 Ap 10 '24
Phases of pulpwood problem. Paper 34:1046-7 S 25 '24
Poplar wood as a substitute in the manufacture of groundwood. W. A. Munro. Paper Tr J 77:60 N 15 '23
Problem of pulpwood farming. Paper 34:996-8 S 18 '24
Pulp and paper making in the South. J: D. Rue. Paper Tr J 81:59-62+ Jl 16 '25; Same, without tables. Paper 35:35-8 F 12 '25
Pulp from different parts of the tree. E. Hägglund. Paper Tr J 81:45-7 Jl 9 '25
Pulp possibilities on the Pacific coast. Paper 34:907-8 S 4 '24
Pulp yields from spruce and balsam. G. J. Armbruster. Paper Tr J 80:61 Je 11 '25
Pulping process for maritime pine which is rich in rosin. Paper 35:60 O 30 '24
Pulping qualities of fire-killed wood. Paper Tr J 79:47-51 N 6 '24
Pulping qualities of fire-killed wood. E. P. Cameron and W. C. Lodge. 16p Canada. Dept. of interior, Ottawa '24
Pulpwood and wood pulp in North America. R. S. Kellogg. 270p McGraw-Hill '23
Pulpwood production and consumption. Manuf Rec 87:86 Ja 8 '25
Pulpwood situation. H. B. Shepard. Paper Tr J 77:36+ D 27 '23
Refiners for groundwood tailings. C. K. Andrews. charts Tech Assn Pa ser 8:26-9 '25; Same. Paper Tr J 80:150-3 F 5 '25
Report of committee on mechanical pulp. Tech Assn Pa ser 8:86 '25
Report of the Royal commission on pulpwood, July, 1924. 292p Canada Royal commission on pulpwood, Ottawa '24
Semi-cellulose and semi-chemical pulping. J: D. Rue. Paper Tr J 81:57-9 O 15 '25
Soluble sulphites and their bisulphites in the pulping of wood. J: D. Rue. Paper Tr J 81: 54-6 O 15 '25
Timber resources. Paper 34:850-4 Ag 28 '24
Utilization of decayed pulpwood. Paper Tr J 77:45 N 29 '23
Utilization of decayed wood in the chemical processes. J: D. Rue, R. N. Miller and C. J. Humphrey. il Tech Assn Pa ser 7:79-83 Je '24; Same. Paper Tr J 78:44-8 My 15 '24
Weight of wood and quantity of pulp. R. Sieber. Paper 33:7-10 Mr 13 '24
Wood in bleached sulphite pulp. J: D. Rue, R. N. Miller and C. J. Humphrey. Tech Assn Pa ser 8:82-3 '25; Same. Paper Tr J 80:49-50 F 26 '25
Woodpulp refiner; patent. diag Paper 34:571 Jl 17 '24

See also Paper

Statistics

Production, consumption and shipments. Survey of Cur Business 46:28 Je '25

Testing

British Guiana woods proposed for paper making; tests of several woods develop their value as sources of pulp and paper. Paper 34:947 S 11 '24
Degree of delignification of cellulose. Paper Tr J 80:49 Je 25 '25
Effect of pressure on test sheets. E. P. Cameron and J. M. Payne. charts Paper 33: 5-11 F 14 '24
Matter of groundwood testing. C. S. V. Hawkings. diags Paper 33:11-15 Ja 31 '24

WOOD pulp—Testing—*Continued*
Methods of testing groundwood. J. Teicher. diags Paper 35:355-9 D 18 '24
Standard methods of testing wood pulp for strength. G. Hall. Paper Tr J 81:45-9 Jl 23 '25
Strength testing of chemical wood pulp. G. P. Genberg. Tech Assn Pa ser 8:41-8 '25; Same. Paper Tr J 80:177+ F 5 '25; Same. Paper 35:84+ F 12 '25

WOOD using industries. See Woodworking

WOOD waste
Agglomération des sciures de bois et des copeaux. J. Petitpas. Soc Ing Civils Bul 78: 516-23 Jl '25
Drying of wood refuse and its importance to industry. A. J. T. Taylor and O: Nordstrom. il charts diags Paper Tr J 80:49-60 Ja 1 '25
Economic factors in the pulping of wood wastes. J. D. Rue. Paper Tr J 79:45-6 O 16 '24
Electricity from wood. W. A. Perry. Electrician 93:128 Ag 1 '24
Fidalgo pulp mfg. co. starts sulphite pulp mill. il Paper Tr J 81:53-4 O 29 '25
Ford upsets precedents in interest of lumber conservation. il Automotive Ind 50:866-7 Ap 17 '24
Glucose and alcohol from wood waste. Chem & Met Eng 32:236 F 9 '25
Humidity turned the trick; removing shavings, clips, and sawdust from woodworking machines. C. Lynndelle. Factory 33:258+ Ag '24
Man-made lumber; revising the structural arrangements of saw-mill waste to make possible its utilization. H. F. Weiss. il Sci Am 130:250+ Ap '24
Oxalic acid from wood waste. F. H. E. Preen. Chem Age 32:72 F '24
Papierhalbstoff aus abfallholz. F. Hoyer. diags Zeit Ver Deutsch Ing 68:1319-21 D 20 '24
Polysulphide pulp; Tingle's process makes strong fiber from wood waste cooked with lime and sulphur and beaten in spent sulphite liquor. A. Tingle. Paper 34:653-4 Jl 31 '24; Same abr. Chem & Met Eng 31:230-1 Ag 11 '24
Turning a nuisance to profit; using refuse as fuel. E. Winholt. il Factory 33:788+ D '24
Utilization of wood waste and sulphite waste liquors in pulp mills. C. G. Schwalbe. il Paper Tr J 78:47-8 Je 26 '24

See also Bark; Sawdust; Wood as fuel

WOODBRIDGE, S. Homer
Sketch. por Heat & Ven 21:75+ F '24

WOODCUTS. See Wood engravings

WOODHOUSE, William Bradley, 1873-
President of the Institution of electrical engineers. por Elec R (Lond) 95:579 O 17 '24

WOODROW Wilson foundation. See Wilson foundation

WOODWORK
Enamel finishing of woodwork. A. A. Kelly. Bldg Age 47:152+ Ja '25
Importance of paint to trim. Eng & Contr (Bldgs) 63:406 F 25 '25
Millwork and interior finish. R. E. Stewart. Am Arch 127:519-20 Je 3 '25
Saving the scrub-lady's elbow grease; making baseboards and door jambs flush with the wall. P. Bingham. il diags Bldg Age 47:162+ Mr '25

See also Baseboards; Cabinet work; Carpentry; Furniture; Panel work; Woodworking shops

WOODWORKING
Applying machine shop methods to a woodworking job. D. A. Hampson. Ind Management 67:52-5 Ja '24
Austrain and Czechoslovak lumber and woodworking industries. C. H. Foster, W. A. Foote and C. M. Ravndal. U S Bur For & Dom Com Trade Information Bul 196:1-16 '24
Education through woodworking, a series of prize winning essays. 352p Educ. dept., American wood working machinery co., Rochester '24
Manual of woodworking. C: G. Wheeler. 189p Putnam '25
Selling to the wood-working industry. Sales Management 9:313+ S 5 '25
Wood industries in New York and its environs. M. C. Mills. 52p Regional plan of New York and its environs, New York '24

See also Woodwork; Woodworking shops

WOODWORKING machinery
Box-making and wood-printing machines. il Engineering 118:544, 545 O 17 '24
Combination woodworker with new features. il Elec Ry J 63:516 Mr 29 '24
Combination Woodworking machine co. simplicity woodworker. il Am Mach 63:250-1 Ag 6 '25
Exhaust systems for wood working. il Sheet Metal Worker 16:437-9+ Jl 17 '25
High-speed wood-planing machine. il Engineering 117:436, 445-6 Ap 4 '24
Machine tool and engineering exhibition at Olympia. il diag Engineer 138:415-18 O 10 '24
Modern woodworking machinery. S. Ransome. 404p Van Nostrand '24
Modern wood-working machinery being designed to minimize waste. G: A. Miller. il Dun's Int R 45:37-40+ Mr '25
New wood-working machines. il Engineer 139:522-3 My 8 '25
Oliver woodworking machines of unique design. il Ry Mech Eng 99:183-4 Mr '25
South Bend woodworker model A 25. il Am Mach 63:291 Ag 13 '25
Wood and metal-working machinery motor requirements. H. C. Jorstad. il Elec W 83: 519-21 Mr 15 '24
Wood planing and dovetailing machines. il Engineering 119:367-8 Mr 20 '25
Wood planing machine for heavy duty. il Engineering 120:523 O 23 '25
Wood worker with five separate tools made by Crescent machine co. il Ry Mech Eng 98:311 My '24
Woodworking machinery. W: Noyes. 144p Manual arts press '23
Wood-working machinery at Olympia. S. Ransome. Engineer 137:412 Ap 18 '24
Wood-working machinery at the British Empire exhibition. il diags Engineer 137:560-2 My 23 '24
Woodworking machinery at the Manchester building trades exhibition. il Engineering 119:289-90, 292, pl 18 Mr 6 '25

See also Lathes; Mortising machine; Sawmills; Saws

Safety devices and measures
Guards for wood working machinery. il diags Ry R 75:585-7 O 18 '24
Safety devices for wood-working machinery; Great Britain and Switzerland. 80p International labour office, Geneva '25

WOODWORKING shops
Ford upsets precedent in interest of lumber conservation. il Automotive Ind 50:866-7 Ap 17 '24
Handling materials by air in industry. C: L. Hubbard. il diags Ind Eng 83:427-31+ S '25
Mechanical engineer in the management of woodworking industries. W. L. Churchill. Mech Eng 45:692-4 D '23
Wood-shop power costs reduced one-fifth by proper collection and use of mill refuse as a fuel, and rearrangement and selection of motors. M. G. Farrell. il diag Power Pl Eng 27:1174-7 D 1 '23

Accidents
Accident experience of metals and woodworking sections of National safety council. Monthly Labor R 21:398-400 Ag '25
Woodworking accidents fewer but more severe. Nat Safety N 10:39 Jl '24
Woodworking section reduces severity rate. Nat Safety N 11:41-2 Je '25

WOODWORKING shops—*Continued*

Electric equipment

Boston L woodworking shop uses individual drive. il plans Elec Ry J 64:1065-71 D 27 '24
Electrically-driven shopfitting establishment; Messrs. Pollard's London works. il Elec R (Lond) 94:101-2 Ja 18 '24
Power service layout for a woodworking plant. F. A. Westbrook. il Ind Eng 83:316-19 Jl '25

Safety devices and measures

Fire prevention in wood working plants. J: Plant. il Nat Safety N 9:35-6 My '24
Safe layout and equipment for the woodworking plant. A. S. Kurkjian. il Nat Safety N 9:15-16 Ja '24
Safety code for woodworking plants. U S Bur Labor Statistics Bul 378:1-18 '25
Safety in the wood shop. il Elec Ry J 62:947 D 1 '23

See also Woodworking machinery—Safety devices and measures

WOOL

Chemistry and physics of the wool fibre. F: A. Hayes. Textile World 68:2803+ N 7 '25
Damage to wool caused by bacteria. H. R. Hirst. Soc Dyers & Col J 41:218-19 Je '25
Destruction of wool by exposure to the atmosphere. S. R. Trotman and R. W. Sutton. il Soc Dyers & Col J 41:121-7 Ap '25
Deterioration of wool due to atmospheric causes. P. Heermann. Am Dyestuff Rep 13: 616-19 S 22 '24; Abstract. Soc Dyers & Col J 40:304 S '24
Genetics and wool production. A. F. Barker. Textile Inst J 15:P134-40, P266-73, P524-35 My, Jl, O '24
Influence of sunlight on wool. Am Dyestuff Rep 14:643 S 21 '25
Investigations into the nature of British pedigree wools. Textile Inst J 15:P423-4, P496-9 Ag-S '24
Properties of the wool fibre. F: A. Hayes. il Textile World 68:89+ Jl 4 '25
Romances of industry—Oregon wool. R. O. Case. il Am Ind 24:11-14 Ap '24
Studies on the bacteriology and mycology of wool. R. Burgess. bibliog diag Textile Inst J 15:T573-83 D '24
Tendencies in sheep breeding. L. G. Connor. Textile World 67:1819-20+ Mr 14 '25
Textile fibres; wool. H. Priestman. Soc Dyers & Col J 40:373-6 N '24
Treatment of pulled wool. il Textile World 65: 2525 Ap 12 '24
Ups and downs of wool growing. J. H. King. il Textile World 65:762-3 F 2 '24
Waterproofing of fabrics. D. Anthony-Langsdale. Textile Inst J 15:P598-602 D '24; Abstract. Chem Age (Lond) 11:597 D 13 '24
Wet processes of the wool industries. J: Schofield. 428p Howes pub. co., 90 William st., N.Y. '24
Wool. S. H. Hart. 2d ed., rev. 249p Philadelphia textile school of the Pennsylvania museum and school of industrial art, Phila. '24
Wool chemical nomenclature and definitions. F: A. Hayes. Textile World 68:789+ Ag 8 '25
Wool supplies and consumption; the requirements of a British Empire industry. Textile Inst J 15:P152-66; Discussion. P166-9 Je '24

See also Dyes and dyeing—Wool; Fulling; Sheep; Wool scouring; Wool trade; Woolen and worsted manufacture; Worsted

Grading

Measurement of wool as a basis for grading. H. B. Gordon. Textile World 65:3835+ Je 7 '24
Properties of the wool fibre. F: A. Hayes. il Textile World 68:89+ Jl 4 '25
Wool grades and fineness of fibre. H. B. Gordon. Textile World 67:853-4+ F 7 '25

Moisture content

Condition or regain in wool. C: E. Mullin. charts Textile Col 47:366-9, 497-502 [bibliog. p. 500-2] Je, Ag '25
Conditioning. C. O. Clark. bibliog Textile Inst J 15:P250-7 Jl '24; Same cond. Textile World 66:1897+ O 4 '24
Conditioning. B. F. Wadsworth. Textile Col 46:647-9 O '24
Conditioning of wool. P. Rauer. Am Dyestuff Rep 13:322-4 My 19 '24
Determination of moisture in various fibers. F. D. Wadsworth. Textile Col 46:365+ Je '24
Facts and theories concerning regain propositions in textile materials; answering Dr Shorter. W: D. Hartshorne. Am Dyestuff Rep 13:37-42 Ja 28 '24
Hygroscopic capacity of wool in different forms and its dependence on atmospheric humidity and other factors. S. A. Shorter and W. J. Hall. Textile Inst J 15:T305-27 Je '24; Abstract. Soc Dyers & Col J 40:301-4 S '24
Standards of regain and the possibility of reform. H. J. W. Bliss and others. Textile Inst J 16:T127-30 My '25
Water and wool. W. L. Wallace. Textile Col 46:578 S '24

Nitrogen content

Relation between the nitrogen of wool and its affinity for acid and basic dyes. E. R. Trotman. Soc Dyers & Col J 40:77-9; Discussion. 79 Mr '24

Prices

Average wool prices. Moody's Inv Serv 16: 236 Je 5 '24

Sorting

Touch and sight v. the microscope in wool classing and sorting. A. F. Barker. Soc Dyers & Col J 41:142 Ap '25

Standards

It helps the wool market. C. B. Sherman. Am Bankers Assn J 17:387+ D '24
Progress in development of standards for wool. G: T. Willingmyre. il Textile World 67:848-9 F 7 '25
Standardization of wool grades. G: T. Willingmyre. Textile World 67:3273-4 My 16 '25
Standards of regain and the possibility of reform. H. J. W. Bliss and others. Textile Inst J 16:T127-30 My '25

Testing

Extensibility of the wool fibre. J: B. Speakman. Textile Inst J 15:T529-32 N '24
Testing grease wool and allied fibres for scoured content. Textile World 68:81 Jl 4 '25
Wools and wool-fibre testing. A. F. Barker and A. F. B. Barker. Textile Inst J 15:T53-60 F '24

Transportation

Fighting the jute fibre evil in wool packing. il Textile World 67:884 F 7 '25
Wool packing problem. Textile Inst J 15:P630-1 D '24

WOOL, Chlorination of

Amino-nitrogen of wool in relation to chlorination. S. R. Trotman and C. R. Wyche. diag Soc Chem Ind J 43:293-5 S 26 '24
Chlorage industriel de la laine. L. Meunier and H. Latreille. Chimie & Ind 10:636-42 O '23; Abstract. Soc Dyers & Col J 40:266-8 Ag '24
Fixation of dry chlorine by absolutely dry wool. Color Tr J 16:116-17 O '24
Unshrinkable woolen. Chemicals (Dyestuffs sec) 17:136 N 9 '25

WOOL carbonizing

Carbonization of wool materials. I. Ginsberg. Am Dyestuff Rep 13:577-80 S 8 '24
Continuous carbonizing apparatus. diag Textile Col 47:375-6 Je '25

WOOL drying

Drying wool. C: E. Mullin. Textile Col 47: 296-8 My '25
Methods of drying wool. Textile World 68: 2175+ O 10 '25

WOOL exchange, National. See National wool exchange

WOOL fabrics. See Woolen and worsted fabrics

WOOL fat

Clarification of wool scourers' effluent and recovery of wool fats. J. de Raeve. diag Ind & Eng Chem 17:837-8 Ag '25

Commercial distillation of fatty acids and wool grease. G. F. Pickering. Soc Chem Ind J 44: 424-30 Ag 14 '25; Abstract. Soc Dyers & Col J 41:379-80 N '25

Wool grease. Chemicals 24:8 Jl 6 '25

Wool scouring and by-products recovery. G: O. Bryant. chart Textile World 66:2641+ N 8 '24

WOOL research

Practical value of research. Textile World 65: 1739+ Mr 8 '24

Research in relation to the woollen and worsted industries. H. J. W. Bliss. Textile Inst J 15:P214-18 Jl '24

WOOL scouring and washing

Action of chemicals in wool scouring. A. W. Davison. Am Dyestuff Rep 12:852-3 N 19 '23

Backwashing worsted sliver. Textile World 67:3422-3 My 23 '25

Clarification of wool scourers' effluent and recovery of wool fats. J. de Raeve. diag Ind & Eng Chem 17:837-8 Ag '25

De-greasing of wool. E. B. Fry. Chem Age (Lond) 12:227 Mr 7 '25

Modern wool washing. D. E. Pospiech. Am Dyestuff Rep 13:517-18 Ag 11 '24

Steam in scouring. Textile World 64:2881+ N 10 '23; Same. Am Dyestuff Rep 13:108 F 11 '24

Wet processes of the wool industries. J: Schofield. 428p Howes pub. co., 90 William st., New York '24

Wool scouring. F. B. Petrie. Chemicals (Dyestuffs sec) 16:167+ My 25 '25

Wool scouring and by-products recovery. G: O. Bryant. chart Textile World 66:2641+ N 8 '24

Wool scouring and carbonizing. J. W. Levering. Am Dyestuff Rep 13:253-4 Ap 21 '24

Wool-scouring waste liquors—composition and disposal. F. P. Veitch and L. C. Benedict. Am Dyestuff Rep 14:449-57 Jl 13 '25

Wool washing and wool fat extraction; abstract. E. O. Rasser. Soc Dyers & Col J 41:288 Ag '25

Wool washing machine at the British Empire exhibition. il diag Engineering 117:841 Je 27 '24

WOOL trade

Arbitration in the wool textile trade—the Franco-British agreement. Textile Inst J 15: P584-6 N '24

Count on prosperity to boost women's wear. Textile World 67:953+ F 7 '25

Favorable outlook for substitutes. Textile World 67:979+ F 7 '25

Future of the world's wool supplies. Economist 99:sup 3 Jl 26 '24; Same abr. Econ W n s 28:260-1 Ag 23 '24

Growth of wool cooperatives. Textile World 68:1598+ S 19 '25

High tops and noils in 1925. Textile World 67: 969+ F 7 '25

Is the woolen depression past? Comm & Fin 14:70 Ja 14 '25

Men's clothing situation. W: Goldman. Textile World 66:3281-2 D 6 '24

Men's wear must overcome buyer's resistance. Textile World 67:951+ F 7 '25

Outlook for wool goods in 1924. A. D. Whiteside. Textile World 65:758 F 2 '24

Position of the world's wool manfacturing industry. Comm M 7:3-13 Ag '25; Same. Econ W n s 30:184-9 Ag 8 '25

Position of wool. Comm M 6:14-15 N '24; Same. Econ W n s 28:659 N 8 '24

Silk and wool trades. Moody's Inv Serv 16: 462 D 26 '24

Substitutes experience good year. Textile World 65:913+ F 2 '24

Who's got the wool? Comm & Fin 13:2458 D 24 '24

Wool and the immediate future. A. W. Elliott. Textile World 64:3442-3 D 8 '23

Wool industry entente; Roubaix, Tourcoing and Bradford in conference. Textile Inst J 15:P199-200 Je '24

Wool market dominated by lessened world clips. Textile World 65:909+ F 2 '24

Wool situation. Nat City Bank p 44-5 Mr '24

Wool tops close year, 1923, firmly. Textile World 65:901+ F 2 '24

World problems of wool and cotton. A. J. Sargent. Textile Inst J 16:P186-92 Je '25

See also Wool waste

Statistics

Goldfinch wool statistics criticised. W: Goldman. Textile World 67:3121-2+ My 9 '25; Discussion. 67:3696; 68:62+ Je 6, Jl 4 '25

International trade in wool. L. A. Wheeler. U S Bur For & Dom Com Trade Information Bul 301:1-70 '25

Study of world wool supply on January 1, 1925. W: Goldman. Textile World 67:1665-6+ Mr 7 '25

Wool. Survey of Cur Business 30:59 F '24 [continued semiannually]

World stocks of wool, 1921 to 1925. A. H. Goldfinch. Textile World 67:2831-4 Ap 25 '25

World's wool. Bradstreet's 52:216 Mr 29 '24

World's wool production in 1924. Econ W n s 29:442-3 Mr 28 '25; Textile World 67:1814 Mr 14 '25

Australia

Australia's production and exports of wool in 1923-1924. Econ W n s 28:591 O 25 '24

Restriction of Australian wool offerings. Textile Inst J 16:P143-4 My '25

Belgium

Belgian wool industry. S. H. Cross. U S Bur For & Dom Com Trade Information Bul 160: 1-15 '23

Canada

Canada's production and consumption of wool. Econ W n s 30:15 Jl 4 '25

Difficulties before the woollen industry. D. Hallam. Can Chem & Met 8:115-16 My '24

How Canada may build up wool growing and manufacturing industry. D. Hallam. Can Chem & Met 9:117-18 My '25

See also Canadian co-operative wool growers

China

China's increasing trade in woolen goods. Econ W n s 29:334-5 Mr 7 '25

Chinese wool industry. Textile World 65:75 Ja 5 '24

France

French wool manufacturing industry since the war. R. Davis. Econ W n s 29:515 Ap 11 '25

Great Britain

B.A.W.R.A. and British government dealings in wool. A. H. Goldfinch. Textile World 67: 821-4 F 7 '25

Dispute in the woollen trade. Economist 101: 334-5 Ag 29 '25

Economics of British sheepbreeding. Economist 98:285-6 F 16 '24

Export trade and employment in the woollen and worsted industry. A. N. Shimmin. Textile Inst J 15:P235-45; Discussion. P245-9 Jl '24

1923 British wool textile trade. Textile World 65:887+ F 2 '24

Price dominates Bradford outlook. Textile World 67:955+ F 7 '25

Requirements of wool industry. S. Harland. Soc Dyers & Col J 40:242 Jl '24

Wool in 1924. Economist 100:184-5 Ja 31 '25

Wool trade. Economist 98:1152-3 Je 7 '24

Italy

Italian wool industry. R. Angelone. Textile World 65:3418+ My 24 '24

Italy's wool textile trade. Comm M 7:15 S '25

WOOL trade—*Continued*

Japan

Development of Japanese wool manufacturing and trade. Comm M 5:21-8 Mr '24; Same. Econ W n s 27:510-13 Ap 12 '24

United States

After a bad year, the woolens trade looks forward hopefully to 1925. J. J. Nevins. Annalist 25:40+ Ja 5 '25
Consumption of wool in the United States in December and during 1923. Econ W n s 27: 196 F 9 '24
Consumption of wool in the United States in December and during 1924. Econ W n s 29: 231-2 F 14 '25
Imports of wool fabrics into the United States in 1923. Econ W n s 27:479 Ap 5 '24
Maintenance of high wool levels likely for 1925. Textile World 67:977+ F 7 '25
Marketing and financing of wool. R. L. Studley. 87p J. Weber, Fernwood, Pa. '24
Overproduction checked progress in men's wear. Textile World 65:883+ F 2 '24
Protest compulsory labeling of textiles. Textile World 65:1723+ Mr 8 '24
Raw wool and yarn markets. T: H. Ball. Textile World 68:391 Jl 18 '25
Testimony at hearing favors Lodge bill. Textile World 65:1857-8+ Mr 15 '24
Textile world analyst. L. H. Haney. Textile World 67:3853+; 68:242-5, 800-1, 2315-16 Je 13, Jl 11, Ag 8, O 17 '25
U.S.A. wool goods average best in world. W: B. Dall. Textile World 67:869+ F 7 '25
Wool consumption in June 1924 the smallest of the year. Comm & Fin Chr 119:525-6 Ag 2 '24
Wool goods imports gain in 1923. Textile World 65:1727+ Mr 8 '24
Wool report for June 30 1924 shows increase in stocks. Comm & Fin Chr 119:876-7 Ag 23 '24
Wool stock report on September 30, 1923. Comm & Fin Chr 117:2161-2 N 17 '23
Woolen industry. Bradstreet's 52:423 Je 28 '24
Woolen industry. Moody's Inv Serv 16:357-8 S 25 '24
Woolen industry. Moody's Inv Serv 17:38 Ja 29 '25
Woolen mill outlook. Moody's Inv Serv 17: 121-2 Ap 9 '25
World wool situation in relation to the American woolen industry. Econ W n s 29:262-3 F 21 '25

See also Tariff—United States—Wool; *also* American woolen company

WOOL washing. See Wool scouring and washing

WOOL waste

Selection of waste for motor bearings. H: S. Day. Elec Ry J 62:864 N 17 '23

WOOLEN and worsted fabrics

Application of color to wool textiles. Color Tr J 16:118-22 Ap '25
Constructing of cheviot suitings. diags Textile World 66:3320-1 D 6 '24
Cut pattern effects. E. H. Marble. il Textile World 65:1425+ F 23 '24
Designing worsted suitings. Textile World 66:2645+ N 8 '24
Fancy weaves for woolens. il Textile World 65:3429+ My 24 '24
Fancy woolen and worsted fabrics. il Textile World 65:1737 Mr 8 '24
Lighter weight polo cloth. Textile World 64: 2897+ N 10 '23
Lightweight woolen fabrics. il Textile World 67:198+ Ja 10 '25
Mackinaw top coating fabrics. Textile World 64:3451+ D 8 '23
Mildew on knitted materials. R. H. Hirst. Textile World 66:999+ Ag 23 '24
Rayon gives new life to worsted dress goods. W: B. Dall. il Textile World 68:1772-4 sec 2 S 26 '25
Rayon in woolen and worsted fabrics. R. Little. Textile World 68:1787 sec 2 S 26 '25
Rise of fancies in women's wear. Textile World 65:885+ F 2 '24
Scotch tweed designing. il Textile World 64: 3447+; 65:109+ D 8 '23, Ja 5 '24
Woolen and worsted design. Textile World 66: 768-9 Ag 9 '24

See also Cashmere; Flannel; Scotch tweed; Woolen and worsted manufacture

Prices

American woolen co. men's-wear lines for spring show decline in price. Comm & Fin Chr 119:877-8 Ag 23 '24

WOOLEN and worsted finishing

Cloth finishing with references to dyeing. T: Canby. Chemicals (Dyestuffs sec) 17:119-20 N 9 '25
Finishing low grade woolens. Textile World 66:3725+ D 27 '24
Finishing soft handling woolens. Textile World 67:3731+ Je 6 '25
Hidden menace in wet finishing. G. Reid. Color Tr J 16:52-5 F '25
Lesson in finishing hairlines. Textile World 66:2363+ O 25 '24
Producing soft finish on woolen goods. Am Dyestuff Rep 14:310-11 My 4 '25
Uniformity of finish. Textile World 68:2633, 3405, 3822 O 31, D 5, 26 '25
Unshrinkable finish process. S. R. Trotman. Soc Dyers & Col J 39:359-60 D '23
Use of the teasel gig. Textile World 65:4223+ Je 28 '24
Wool-finishing process. K. Wagner. Am Dyestuff Rep 12:868+ D 3 '23
Woolen and worsted finishing. A. A. Stewart. Am Dyestuff Rep 14:285-9; Discussion. 289-90 My 4 '25

WOOLEN and worsted machinery

Finer counts from wool. H. J. W. Bliss. diag Textile World 65:3427+ My 24 '24
Gill box leathers. Textile World 67:323 Ja 17 '25

See also Teazling machine; Wool scouring

Lubrication

Standardization of textile mill lubrication. A. F. Brewer. Textile World 67:3711+ Je 6 '25

WOOLEN and worsted manufacture

Chemicals used in the textile industry. F: A. Hayes. Textile World 68:2171+ O 10 '25
Chemistry and physics of the wool fibre. F: A. Hayes. Textile World 68:2803+ N 7 '25
Chlorage industriel de la laine. L. Meunier and H. Latreille. Chimie & Ind 10:636-42 O '23
Conditioning. C. O. Clark. bibliog Textile Inst J 15:P250-7 Jl '24; Same, cond. Textile World 66:1897+ O 4 '24
Conditioning. B. F. Wadsworth. Textile Col 46:647-9 O '24
Degree of irregularity in 2-ply woollen yarns. H. M. Williams. Textile Inst J 16:T311-14 O '25
Établissements Tiberghien Frères à Tourcoing. R. Jouassain. Soc Ing Civils Bul 77: 609-16, pl 80 O '24
Faults in wool and worsted fabrics. Textile World 67:1689+ Mr 7 '25
Importance of soft water in wool processing. J: H. Culver. Am Dyestuff Rep 13:717-18 N 3 '24
Inside story of Ford textile experiments. D G. Woolf. Textile World 68:2774-5 N 7 '25
Manufacture of woolen and worsted yarns. J: W. Radcliffe. 2d ed. 353p Emmott & co., ltd., Manchester, London '24
Operations in woolen and worsted manufacturing and the processes which require temperature or humidity control; chart. Textile World 67:2105 Mr 28 '25
U.S.A. wool goods average best in world. W: B. Dall. Textile World 67:869+ F 7 '25
Unsolved problems in wool manufacturing. Textile World 67:953+ F 7 '25
Woolen and worsted census, 1923. Textile World 67:1954 Mr 21 '25
Woollen yarn production. T. Lawson. 129p Pitman '24

WOOLEN and worsted manufacture—*Continued*
Worsted industry. J. Dumville and S. Kershaw. 127p Pitman

See also Blankets; Dyes and dyeing—Wool; Fulling; Textile fabrics; Textile mills; Wool scouring; Woolen and worsted fabrics; Woolen and worsted finishing; Woolen and worsted machinery; Woolen and worsted mills; Woolen and worsted spinning

By-products

Textile by-products; mungo, shoddy, etc. E. B. Fry. Textile Inst J 16:P60-4 Mr '25

See also Wool fat

WOOLEN and worsted mills
Cranston worsted mills enlarged. il Textile World 65:1433+ F 23 '24
Modern plant for spinning, weaving and finishing in the South. R. J. H. Worcester. il Manuf Rec 86:85-6 Jl 31 '24
Oldest mill in Verviers passes; stone mill in Simonis plant. W: B. Dall. il Textile World 68:1025-6 Ag 22 '25
Organization and construction of woolen mills. A. W. Benoit. il Mech Eng 46:208-10 Ap '24; Same. Textile World 65:2313+ Ap 5 '24; Discussion. Mech Eng 46:210-11 Ap '24
Proper steam control effects an annual saving of $6,388 and improved weaving results. diag Textile Col 47:725-6 N '25
Textile mill mechanical department. il Textile World 65:1601+ Mr 1 '24

See also American woolen company

Accounting

Cost finding in woolen mills. W. M. Caudell. Textile World 65:107+ Ja 5 '24
Costing in woollen manufacture. J. N. Tod. Textile Inst J 16:P221-7; Discussion. P227-30 Jl '25
Overhead distribution in woolen mills. W. M. Caudell. Textile World 65:3425+ My 24 '24

Employees

Wages and hours of labor in woolen and worsted goods manufacturing, 1924. U S Bur Labor Statistics Bul 377:1-36 '25; Abstract. Monthly Labor R 19:533-8 S '24

Equipment

Minneola electrifies and installs broad looms. D. G. Woolf. il Textile World 68:1153-4 Ag 29 '25

See also Woolen and worsted machinery

WOOLEN and worsted spinning
Principles of woolen spinning. H. Priestman. 2d ed. 339p Longmans '24
Processes in the spinning of worsted yarns. J. H. C. Hodgson. Textile Inst J 15:P429-35; Discussion. P435-7 S '24
Wool spinning machinery at the British Empire exhibition. il Engineering 120:558-9 O 30 '25

WOOLWORTH, Frank W.
F. W. Woolworth said: "Don't be content with one opinion." H. T. Parson. il por System 45:632-3 My '24

WOOLWORTH, F. W., company
How we adapt ourselves to selling at the same prices. H. T. Parson. il System 44:737-41 D '23
Investment notes. Bradstreet's 52:37 Ja 12 '24
10 reasons why our stores sell over $715,000 a day. H. T. Parsons. System 48:27-30+ Jl '25

WOONSOCKET, Rhode Island
Engineering in the small city. Eng N 95:717-18 O 29 '25

WORCESTER, Massachusetts

Sewerage

Sewage treatment at Worcester. Pub Works 55:374 D '24

WORCESTER boys trade school, Worcester, Massachusetts
Can a school turn out first-class machinists? methods in a trade school machine shop that is run on a commercial basis. C: O. Herb. il diags Mach 30:622-5 Ap '24
Training draftsmen and patternmakers; outline of courses given at the Worcester boys trade school. il diag Mach 30:787-9 Je '24

WORD division
Carve carefully—words have joints! E: N. Teall. Inland Ptr 72:612-13 Ja '24

WORDEN, Edward C., laboratories, Milburn, New Jersey
Two million references easily accessible. il Chem & Met Eng 32:17 Ja 5 '25

WORDINGHAM, Charles Henry, 1866-1925
Sketch. por Electrician 94:122 Ja 30 '25; Elec R (Lond) 96:204 F 6 '25; Engineering 119:171 F 6 '25

WORDS
Better words to use. R: Surrey. Ptr Ink M 9: 56+ Jl '24
Brown derby entries for the advertising dictionary. S. Hopper. Ptr Ink 127:53-4+ My 8 '24
Choose unusual words in writing sales letters. R. Crothers. Ptr Ink 125:19-20 D 27 '23
Folk words vs. book words in advertising. R: Surrey. Ptr Ink 130:109+ Mr 26 '25
How shall we make the words we need? A. Bradbury. Ptr Ink 131:69-70+ Ap 16 '25
Mystery of words. E: N. Teall. Inland Ptr 73:226-7 My '24
Power of words. A. Stote. Ptr Ink M 9:41-2+ O '24
Take a tip from Tchekhoff. R: Surrey. Ptr Ink 127:77-8+ My 29 '24; Excerpts. Automotive Ind 50:1274-5 Je 12 '24
Why are words troublesome? E: N. Teall. Inland Ptr 73:98-9 Ap '24
Word sources that strengthen copy uses. L. R. Alwood. Ptr Ink 128:104+ S 4 '24
Words that fit like gloves. A. L. Townsend. Ptr Ink 133:195-6 O 8 '25

See also Compound words; English language

WORK

See Efficiency, Industrial; Fatigue; Labor and laboring classes

WORK trains. See Railroads—Work trains

WORKERS. See Labor and laboring classes

WORKERS' education. See Education of workers

WORKERS' gardens
Workers' gardens. Int Labour R 10:86-119 Jl '24

WORKERS' health bureau
Trade unions study to conserve the worker's health. G. M. Burnham. il Nation's Health 6:4-5 Ja '24

WORKERS' spare time. See Leisure

WORKING girls and women

See Woman—Employment

WORKING women, International federation of. See International federation of working women

WORKMEN'S compensation
Administrative justice. R. H. Smith. Monthly Labor R 18:946-50 My '24
Compensation for disablement by deferred pensions. F. Hool. Int Labour R 11:659-64 My '25
Compensation for industrial accidents; comparative analysis of national laws. 655p International labour office, Geneva '25
Compensation for occupational diseases; comparative analysis of national legislations. 76p International labour office, Geneva '25
Compensation if orders are disobeyed. W. Gustin. Chem & Met Eng 30:943 Je 16 '24
Compensation laws. Eng & Contr (G C) 64: 635-6 S 16 '25
Cost of compensation for industrial accidents. J. A. Hamilton. Nat Safety N 12:27-8 Ag '25
Employee's willful negligence as ground for denying compensation. L. Childs. Am Mach 61:763 N 13 '24
Equality of treatment for national and foreign workers in workmen's compensation. Int Labour R 10:557-8, 579-82 O '24

WORKMEN'S compensation—*Continued*

Medical advantages of workmen's compensation. H: D. Sayer. Elec Ry J 66:689-90 O 17 '25

Medical provisions of workmen's compensation laws. F. L. Rector. J Ind Hygiene 6: 174-80; Discussion. 212-16 S '24

Physician and the administration of workmen's compensation laws. Econ W n s 29: 97-8 Ja 17 '25

Proceedings of the tenth annual meeting of the International association of industrial accident boards and commissions held at St Paul, Minnesota, Sept. 24-26, 1923. U S Bur Labor Statistics Bul 359:1-148 '24

Proceedings of the eleventh annual meeting, International association of industrial accident boards and commissions, held at Halifax, Nova Scotia, August 26-28, 1924. U S Bur Labor Statistics Bul 385:1-184 '25

Protection of family life through accident prevention and compensation. J: B. Andrews. Ann Am Acad 121:1-9 S '25

Recent proceedings and reports of International labor office on workmen's compensation. Monthly Labor R 21:812-16 O '25

Recommendations of American federation of labor. Monthly Labor R 17:1387-91 D '23

Report of N.W.D.A. committee on employer's liability and workmen's compensation. Oil Paint & Drug Rep 106:17 O 1 '24

Some injustices in the administration of compensation laws. O. G. Browne. Ry Age 76: 1315-16 My 31 '24

Supplementary report on workmen's compensation. 62p International labour office, Geneva '25

What is the human body worth? report of the National industrial conference on workmen's state compensation laws. Safety Eng 46:294-5 D '23

Workmen's compensation. E. H: Downey. 223p Macmillan '24

Workmen's compensation. Published in monthly numbers of Monthly labor review

Workmen's compensation for occupational diseases. P. T. Sherman. Safety Eng 50:30-4+ Jl '25

Workmen's compensation laws relating to injuries to the eye. H. Best. Econ W n s 29: 311-15 F 28 '25

Workmen's compensation legislation of 1925. L. D. Clark. Monthly Labor R 21:792-807 O '25

See also Accidents, Industrial; Employers' liability; Insurance, Workmen's compensation; *also* International association of industrial boards and commissions

Argentina

Development of workmen's compensation in Argentina. Monthly Labor R 21:409 Ag '25

Canada

Workmen's compensation in Canada. Econ W n s 30:242-3 Ag 15 '25

District of Columbia

Proposal for monopolistic government workmen's compensation insurance in the District of Columbia. A. R. Marsh. Econ W n s 27:164 F 2 '24

Great Britain

Alien workers under workmen's compensation legislation in the British Empire. Int Labour R 9:708-28 My '24

Government report on workmen's compensation in Great Britain in 1922. Econ W n s 27: 243 F 16 '24

Handbook on the Workmen's compensation acts, 1906-1923. T: J. Connolly. 752p W. Hodge and co., ltd., Edinburgh and London '25

New British workmen's compensation act of 1923. A. R. Marsh. Econ W n s 27:20 Ja 5 '24

New workmen's compensation act. Engineering 116:658-9 N 23 '23

Statistics of compensation for the year 1923. Elec R (Lond) 96:238 F 6 '25

Workmen's compensation act, 1923; abstracts. Engineer 137:41-2 Ja 11 '24; Gas J (Lond) 165:28-9 Ja 2 '24; Monthly Labor R 18:400-1 F '24

Workmen's compensation (no. 2) act, 1923. J. J. H. Stansfield. Elec R (Lond) 93:844-5, 932; 94:128 D 7, 21 '23, Ja 25 '24

Workmen's compensation in Great Britain in 1922. Int Labour R 9:954-9 Je '24

Workmen's compensation in Great Britain in 1923. Econ W n s 29:242-3 F 14 '25

Illinois

Changes in Illinois workmen's compensation act. Comm & Fin Chr 121:522 Ag 1 '25

Workmen's compensation; a discussion of rates in Illinois as affected by recent legislation. C. W. Olson. Eng & Contr (G C) 64: 655-6 S 16 '25

India

Workmen's compensation in India. Econ W n s 28:240-1 Ag 16 '24

Indiana

Indiana workmen's compensation manual. S: R. Artman. 349p Barnett & Patton, Indianapolis '24

Maryland

Phosphorus poisoning: disease or accident under Maryland compensation law. Monthly Labor R 21:165-7 Jl '25

Mexico

Comparison of workmen's compensation laws of the Mexican states. E. C. Yohe. Monthly Labor R 18:217-26 F '24

Workmen's compensation of Yucatan, Mexico. Monthly Labor R 21:413-15 Ag '25

Missouri

New compensation law of Missouri. Monthly Labor R 20:1329-31 Je '25

Referendum on Missouri workmen's compensation law. L. D. Clark. Monthly Labor R 21: 602-9 S '25

Nebraska

Gassing of employee came under compensation law. Gas Age 53:15-16 Ja 5 '24

New York (state)

Cost of compensation for industrial accidents. J. A. Hamilton. Econ W n s 30:165-8 Ag 1 '25; Abstract. Monthly Labor R 21:610-11 S '25

Workmen's compensation law with amendments, additions and annotations to June 1, 1925. 127p Bureau of statistics and information, Albany '25

Workmen's compensation tables. 55p N.Y. state Dept. of labor, Albany '23

Ohio

Blindness due to ultra-violet rays not injury under Ohio compensation law. Monthly Labor R 21:168-9 Jl '25

Pennsylvania

Annual report, Bureau of workmen's compensation, Department of labor and industry, of Pennsylvania, 1924. Safety Eng 49:209-12 My '25

Workmen's compensation law of Pennsylvania. W: A. Skinner. 451p Geo. T. Bisel co., Phila. '24

United States

Alien workers under workmen's compensation legislation in the United States. Int Labour R 9:939-53 Je '24

Comparison of workmen's compensation laws of the United States as of January 1, 1925. L. D. Clark. U S Bur Labor Statistics Bul 379:1-15 '25

Decisions of courts and opinions affecting labor, 1922. L. D. Clark and D. F. Callahan. U S Bur Labor Statistics Bul 344:273-412 '23

WORKMEN'S compensation—United States —*Continued*
Digest of workmen's compensation laws in the United States and territories. 8th ed., rev. 421p Workmen's compensation publicity bur., New York '23
Eight years of Federal compensation experience. F: L. Hoffman. Spectator 115:3+ S 10 '25; Same. Econ W n s 30:420-1 S 19 '25
Is the employer liable where one employee assaults another? L. Childs. Ind Management 69:172-3 Mr '25
Review of workmen's compensation legislation for 1924. Monthly Labor R 19:905-9 O '24
Uniform medical provisions for workmen's compensation acts in the United States. 28p National industrial conference board, inc., New York '25
Workmen's compensation and metal mining. Min Cong J 10:227-8 My '24
Workmen's compensation in the United States. H. D. Bangert. Paper Tr J 78:66-7 My 8 '24

Virginia

Workmen's compensation law of Virginia. 137p Virginia. Industrial commission, Richmond '24

WORKMEN'S compensation publicity bureau
Workmen's compensation publicity bureau. F. R. Jones. Spectator 113:43-4+ sec 2 Jl 17 '24

WORKS council act, Germany. See Labor laws and legislation—Germany

WORKS councils. See Shop committees

WORLD court. See Permanent court of international justice

WORLD fairs. See Exhibitions

WORLD flight. See Aviation

WORLD motor transport congress
First congress, Detroit, May 21-24. Bus Transportation 3:278-9 Je '24; Am Exporter 95:79+ Ag '24
First congress, Detroit, May 21-24. C. D. Snow. il Nation's Business 12:24-6 Jl '24
First World motor transport congress dramatizes automotive progress. N. G. Shidle. Automotive Ind 50:1160-74 My 29 '24

WORLD oil company
Bunker crowd, after club interests, say they will incorporate. P. Wagner. Nat Pet N 17: 62+ Jl 1 '25

WORLD power conference, London, 1924
America's part in World power conference. Elec W 83:445 Mr 1 '24
British view of World power conference. Elec W 82:985 N 10 '23
First international power conference. H. V. Bozell. N E L A Bul 11:531-9 S '24
High lights from the World power conference. A. L. Rice. diags Power Pl Eng 28:862-6, 904-5 Ag 15-S 1 '24
Power conference in London. Can Eng 45:536; 46:544-5, 638 N 27 '23, My 20, Je 24 '24
Program of papers. Elec W 83:1023-4 My 17 '24; Same. Power 59:704-5 Ap 29 '24; Same. Manuf Rec 85:78-80 My 8 '24
Review of the transactions. Elec R (Lond) 97:8-10 Jl 3 '25
Significance of the World power conference. H. N. Casson. il Ind Management 68:255-9 N '24
Transactions of the first World power conference, London, June 30th to July 12th, 1924. 5v P. Lund, Humphries & co., ltd., London '25; Review. Engineering 120:220-2 Ag 21 '25
World power conference at the British Empire exhibition. Elec R (Lond) 95:3-4, 48-51, 88-91, 127-30, 167-9, 204-6, 240-2, 299-301, 335-7 Jl 4-Ag 29 '24; Electrician 93:4-7, 45, 66, 98-9, 124-5, 153, 179 Jl 4-Ag 15 '24; Elec W 84:161-7, 211-15 Jl 26-Ag 2 '24; Engineer 138:8-10, 40-4, 68-71, 100-1 Jl 4-25 '24; Engineering 118:18-20, 31-3, 35-47, 77-87, 115-24 Jl 4-25 '24; Gas J (Lond) 167:251-3, 317-21, 393-6, 453-7, 518-20 Jl 9-Ag 6 '24; Coal Age 26:155-6 Jl 31 '24; Iron Age 114:197-8 Jl 24 '24; Iron Tr R 75:231-2 Jl 24 '24; Power 60: 160-5, 206-9, 249-52 Jl 29-Ag 12 '24; Mech Eng 46:550-3, 626-31 S-O '24; Soc Chem Ind J (Chem & Ind) 43:719-21, 742-3 Jl 11-18 '24
World power conference discussed. Electrician 94:334 Mr 20 '25; Elec R (Lond) 96:593-5 Ap 10 '25
World power conference to be a permanent organization. Eng N 95:444 S 10 '25

WORLD war foreign debt commission
Bill extending life of World war foreign debt commission passed by Congress. Comm & Fin Chr 120:403-4 Ja 24 '25

WORM gearing. See Gearing, Worm

WORRY
What's the use of worrying? H. N. Bundesen. Prof Eng 10:15-16 My '25

WORSTED
Finer counts from wool. H. J. W. Bliss. diag Textile World 65:3427+ My 24 '24
Increasing worsted yarn demand indicated. Textile World 67:965+ F 7 '25
Variations in yarn structure. Textile World 68:2807+ N 7 '25
Worsted knitting yarns. H. Turner. Textile World 65:111+ Ja 5 '24
Worsted yarn fluctuations radical for 1923. Textile World 65:897+ F 2 '24

See also Woolen and worsted finishing; Woolen and worsted manufacture; Woolen and worsted mills; Yarn

Testing

Dynamical theory of the pendulum yarn testing machine. S. A. Shorter and W. J. Hall. diag Textile Inst J 14:T501-7 D '23
Experimental examination of the hank test and a comparison with the single thread tensile test for worsted and woollen yarns. W. J. Hall. Textile Inst J 16:T223-32 Jl '25
New autographic testing machine for yarns and fibres. S. A. Shorter and W. J. Hall. il Textile Inst J 14:T493-500 D '23

WORT
Influence of certain chemicals on the rate of reproduction of yeast in wort. N. A. Clark. J Phys Chem 28:221-31 Mr '24

WORTHINGTON pump and machinery corporation
Worthington methods for tool storage, use and repair. A. L. Christensen. Management & Adm 10:201-4 O '25
Worthington pump & machinery corp. 7% pfd. stock. Moody's Inv Serv 16:280 Jl 17 '24

WOUNDS
Wound infections cause lost time in industry. A. W. Colcord. Nation's Health 6:846-8 D '24

WRAPPING machines
Automatic machines for wrapping various products. il Dun's Int R 45:61-2 Ag '25
Designing package-wrapping machinery. A. A. Dowd. diags Mach 32:42-5 S '25
Maschinen für massenverpackung. K. W. Geisler. il diags Zeit Ver Deutsch Ing 69: 917-21 Jl 11 '25

WRAPPING paper
Meeting of the Wrapping paper division of National paper trade association. Paper Tr J 80:34-42 Ap 2 '25

WRECKING
Blasting a concrete smokestack. F. Mott and W: McCurdy. il Eng & Contr (G C) 63:1310 Je 17 '25
Blasting reinforced concrete wall. diag Eng & Contr (Ry) 62:420 Ag 20 '24; Same. Concrete 25:97-8 S '24
Cost of wrecking brick buildings by pneumatic tools. D. A. Slattery. Eng & Contr (Bldgs) 61:211 Ja 23 '24
Deconstruction and demolishing of buildings. il Bldg Age 45:54-5 N '23
La démolition du barrage et de l'écluse de la Monnaie à Paris. H. Lang. il diag plans Génie Civil 87:341-5 O 24 '25
Demolition of the harbour and defence works of Heligoland; abstracts. L. H. Savile. Engineering 119:221-2 F 20 '25; Eng & Contr (G C) 64:1139-40 N 18 '25

WRECKING—*Continued*
Dismantling old stacks by blasting. J. R. Briggs. il Iron Tr R 75:484-6 Ag 21 '24
Dobson—a contractor who tried; the reminiscence of a wrecking job. H. G. Badder. il Concrete 26:15-17 Ja '25
Dynamite; uses, handling and role of explosive in many kinds of builders' work. P. L. Schaeffer. il Bldg Age 47:138-9 Ap '25
How dynamite was used in breaking a large wheel. H. B. Barnes. Am Mach 60:243-4 F 14 '24; Same cond. Ind Eng 82:35-6 Ja '24
Top of a stack successfully removed by dynamite. I. J. Cox. il Eng & Contr (Bldgs) 62:1189-90 N 26 '24
See also Bridges—Wrecking; Hydraulic mining cartridge; Warships—Demolition

Specifications
Outline of tentative specifications for wrecking. Am Arch 126:550 D 3 '24

WREN, Sir Christopher
Tablet to Wren. il Am Arch 126:224 S 10 '24

WRENCHES
Ratchet wrench for passenger car truss rods. il Ry Mech Eng 99:109-10 F '25

Manufacture
Making wrench handles from wire. il diags Mach 30:696-9 My '24

WRIGHT areonautical corporation
Report to stockholders for 1924. Aviation 18: 384 Ap 6 '25

WRIGLEY, William, jr., company
Annual report for fiscal year ended December 31, 1923. Comm & Fin Chr 118:565 F 2 '24
Doublemint profits due to advertising, not trade dress, says Wrigley. D. M. Hubbard. Ptr Ink 125:25-7 D 13 '23
Finding of $3,718,000 against Wrigley in gum suit. Ptr Ink 125:28+ N 22 '23
Government stops to hear a classic on success. Ptr Ink 126:33-4+ Mr 6 '24
Wrigley's advertising cuts damages in Doublemint gum suit. Ptr Ink 129:41-2+ D 18 '24

WRIGLEY building, Chicago
Double-deck footbridge connects Chicago office buildings. il Eng N 94:436 Mr 12 '25
Heating the Wrigley building. E. W. Riesbeck. plans Dom Eng 107:27-8+ Je 7 '24

WRITING
Bits of history concerning the origin of the alphabet. J: J. Fisher. Inland Ptr 73:247 My '24

WROUGHT iron
Direct production of iron. E. Fornander. il diags Chem & Met Eng 30:864-8, 907-10 Je 2-9 '24; Abstract. Blast F & Steel Pl 12: 339-40 Jl '24
Problems in wrought and cast iron. Iron Age 114:14 Jl 3 '24
Producing charcoal iron tubes. G. H. Woodroffe. il Iron Tr R 74:482-7 F 14 '24
Report of committee A-2 on wrought iron, with revisions of standards. Am Soc T M Pro 24 pt 1:206-10 '24
Strength properties of wrought iron, mild steel and nickel steel at high temperatures. H. Carrington. il Engineering 117:69-71 Ja 18 '24
Symposium on wrought iron problems. Iron Age 116:1175-7 O 29 '25
See also Puddling

Testing
Nick-bend test for wrought iron. H: S. Rawdon and S: Epstein. il U S Bur Stand Tech Pa 252:115-55 '24

WROUGHT iron work. See Ironwork, Architectural

WYOMING
See Coal—Wyoming; Floods—Wyoming; Gas, Natural—Wyoming; Geology—Wyoming; Mines and mineral resources—Wyoming; Oil shales—Wyoming; Petroleum—Wyoming; Petroleum industry and trade—Wyoming; Roads—Wyoming

X

X-RAY films. See Film storage

X-RAY tubes
Modern X-ray tube development. W: D. Coolidge. il diags J Fr Inst 199:619-48 My '25
Oil immersed X-ray generating outfits and their uses. W. D. Coolidge. il diags Sibley J 39:284-7+, 318-21 Mr-Ap '25; Same. Gen Elec R 28:182-92 Mr '25
Water cooled X-ray tube. Am Inst E E J 43: 249 Mr '24

X RAYS
Abnormal reflexion of X-rays. J. H. Smith. Philos Mag 6th ser 49:192-4 Ja '25
Absorption coefficients of homogeneous X-rays between wave-lengths 0.1A and 0.71A. S. J. M. Allen. Phys R 24:1-8 Jl '24
Absorption measurements of the change of wave-length accompanying the scattering of X-rays. A. H. Compton. diag Philos Mag 6th ser 46:897-911 N '23
Absorption of X-rays by iron, cobalt, nickel and copper. F. K. Richtmyer and F. W. Warburton. Phys R 22:539-45 D '23
L'analyse du charbon au moyen des rayons X. C. N. Kemp. il diags Chimie & Ind 12: 233-49 Ag '24
Application of X-ray crystal analysis to metallurgy. E. C. Bain. il Ind & Eng Chem 16:692-8 Jl '24
Applications of X-rays in the technology of coal. C. N. Kemp. Iron Age 116:429 Ag 13 '25
Atomic structure and the reflexion of X-rays by crystals. D. R. Hartree. Philos Mag 6th ser 46:1091-1111 D '23
Chance of an electron being ejected photo-electrically from an atom by X-rays. G. E. M. Jauncey. Philos Mag 6th ser 48:81-8 Jl '24
Coal testing by the X-ray. Am Gas J 122:131 F 7 '25
Coloration of the alkali halides by X-rays. P. L. Bayley. Phys R 24:495-501 N '24
Corpuscular quantum theory of the scattering of polarized X-rays. G. E. M. Jauncey. Phys R 23:313-17 Mr '24
Corpuscular radiation excited by X-rays. C. G. Barkla and A. E. M. M. Dallas. diags Philos Mag 6th ser 47:1-23 Ja '24
Corpuscular theory of the distribution of the recoil electrons produced by polarized X-rays. G. E. M. Jauncey. Phys R 23:580-2 My '24
Crystal analysis by the diffraction of X-rays. R. A. Patterson. bibliog il diags Ind & Eng Chem 16:689-91 Jl '24
Detection of flaws by X-rays. Chem Age (Lond) 11:sup39 N 1 '24
Directed quanta of scattered X-rays. A. H. Compton and A. W. Simon. il diags Phys R 26:289-99 S '25
Direction of ejection of photo-electrons by polarized X-rays. F. W. Bubb. il diag Phys R 23:137-43 F '24
Effect of a magnetic field on the absorption of X-rays. J. A. Becker. Phys R 22:320-3 O '23
Effect of temperature on the regular reflection of X-rays from aluminum foil. E. H. Collins. diags Phys R 24:152-7 Ag '24
Emission of β- and δ-rays from a metallic film, and the relation to the quantum theory of scattering of X-rays. L. Simons. diags Philos Mag 6th ser 48:250-8 Ag '24
L'emploi des rayons X pour le contrôle industriel. Pilon. Génie Civil 87:194-5 Ag 29 '25
Examination of steel by X-ray. L. C. Breed. Blast F & Steel Pl 12:517-18 N '24
Excitation of characteristic X-rays from certain metals. F. Horton, U. Andrewes and A. C. Davies. diag Philos Mag 6th ser 46: 721-41 N '23
Excitation, reflection, and utilization in crystal-structure analyses of characteristic secondary X-rays. G: L. Clark. Am Chem Soc J 46:372-84 F '24

X RAYS—*Continued*

Experimental check of the optical theory of X-ray reflection. P. Kirkpatrick. Phys R 22:414-19 N '23

Experiments on the wave-lengths of scattered X-rays. S: K. Allison and W: Duane. Phys R 26:300-9 S '25

Extension of the X-ray-doublet laws into the field of optics. I. S. Bowen and R. A. Millikan. Phys R 24:209-22 S '24

Further X-ray measurements of long-chain compounds and a note on their interpretation. A. Müller and G: Shearer. Chem Soc J 123:3156-64 D '23

Further X-ray measurements on long-chain compounds (*n*-hydrocarbons). A. Müller and W: B. Saville. il Chem Soc J 127:599-603 Mr '25

General quantum theory of the wave-length of scattered X-rays. A. H. Compton. Phys R 24:168-76 Ag '24

Der heutige stand der röntgentechnik. G. Grossmann. il diags Elektrotech Zeit 45: 897-903 Ag 21 '24

Hunting ills with the X-rays. V. E. Hillman. il Foundry 52:213-16 Mr 15 '24; Same. Iron Tr R 74:1103-6 Ap 24 '24

Index of refraction of calcite for X-rays. C. C. Hatley. diags Phys R 24:486-94 N '24

Influence of temperature on the intensity of reflection of X-rays from rocksalt. R. W. James. Philos Mag 6th ser 49:585-602 Mr '25

Intensity of the scattering of X-rays by recoiling electrons. Y. H. Woo. diag Phys R 25:444-51 Ap '25

Intensity of the X-rays scattered from rocksalt. G. E. M. Jauncey and H. L. May. diag Phys R 23:128-36 F '24

Investigation of thin films by means of X-rays. W. H. Bragg. il Engineering 119:112-13 Ja 23 '25

J-phenomena and the quantum-theory of scattering of X-radiation. R. T. Dunbar. diags Philos Mag 6th ser 49:210-36 Ja '25

J phenomenon in X-rays. C. G. Barkla. Philos Mag 6th ser 49:1033-56; 50:1115-34 My, N '25 (to be cont)

J transformation of scattered X-rays. C. G. Barkla and S. R. Khastgir. diag Philos Mag 6th ser 49:251-6 Ja '25

Locating pipes in walls. il Dom Eng 110:28 Ja 17 '25

Measurements of β-rays associated with scattered X-rays. A. H. Compton and A. W. Simon. Phys R 25:306-13 Mr '25

New and improved method for building X-ray rooms. M. Toch. Am Inst Chem Eng Trans v 15 pt 2:229-31 '23

New precision X-ray spectrometer. W. Soller. diags Phys R 24:158-67 Ag '24

Oil-immersed X-ray generating outfits and their uses. W. D. Coolidge. Sibley J 39: 284-7+, 318-21 Mr-Ap '25; Same. Gen Elec R 28:182-92 Mr '25

Precision X-ray spectrometer for chemical investigations. G. L. Clark, H. C. Weber and R. L. Hershey. il diags Ind & Eng Chem 17: 1147-50 N '25

Protective and manipulative methods in relation to X-rays and radium. Elec R (Lond) 97:111-12 Jl 17 '25

Quantum theory of the intensity of the modified band in the Compton effect. G. E. M. Jauncey. diags Phys R 25:723-36 Je '25

Quantum theory of the unmodified spectrum line in the Compton effect. G. E. M. Jauncey. diags Phys R 25:314-21 Mr '25

Recent advances in X-ray technique. M. A. Codd. il diags Elec R (Lond) 94:566-9 Ap 11 '24

Recoil of electrons from scattered X-rays. A. H. Compton and J. C. Hubbard. Phys R 23: 439-49 Ap '24

Reflection of X-rays by barite. S: K. Allison. Am J Sci 5th ser 8:261-76 O '24

Refraction of X-rays in iron pyrites. R. von Nardroff. Phys R 24:143-51 Ag '24

Scattering of X-rays. Engineering 118:322-3 S 5 '24

Scattering of X-rays. W: Bragg. il Engineering 117:204-5 F 15 '24

Scattering of X-rays. A. H. Compton. il diags J Fr Inst 198:57-72 Jl '24

Scattering of X-rays. I. Maizlish. bibliog J Fr Inst 197:667-90 My '24

Scattering of X-rays by hydrogen. G. A. Schott. Phys R 23:119-27 F '24

Soft X-rays and secondary electrons. J. A. Becker. il diag Phys R 24:478-85 N '24

Soft X-rays from carbon. P. I. Lukirsky. diag Philos Mag 6th ser 47:466-70 F '24

Soft X-rays from certain metals. C. T. Chu. diags J Fr Inst 200:615-27 N '25

Soft X-rays from heavy elements, tantalum to gold. J. C. Boyce. Phys R 23:575-9 My '24

Soft X-rays from iron. C: H. Thomas. diag Phys R 25:322-32 Mr '25

Soft X-rays from tungsten. C. B. Bazzoni and C. T. Chu. diags J Fr Inst 197:183-97 F '24

Spectrum of scattered X-rays. A. H. Compton. diags Phys R 22:409-13 N '23

Steel castings and X-rays. A. St John. il Iron Age 116:802-4 S 24 '25

Study of metals by X-ray in its infancy. Iron Tr R 73:1736 D 27 '23

Theory of the number of beta-rays associated with scattered X-rays. G. E. M. Jauncey and O. K. DeFoe. Phys R 26:433-5 O '25

Theory of the width of the modified spectrum lines in the Compton effect. G. E. M. Jauncey. Philos Mag 6th ser 49:427-33 F '25

Theory of X-ray absorption and of the continuous X-ray spectrum. H. A. Kramers. Philos Mag 6th ser 46:836-71 N '23

X-ray analysis of coal, and a new X-ray examining unit. C. N. Kemp. Soc Chem Ind J 43:234-6 Jl 18 '24; Abstract. Iron Age 114: 384 Ag 14 '24

X-ray analysis of copper-zinc, silver-zinc, and gold-zinc alloys. A. Westgren and G. Phragmén. Philos Mag 6th ser 50:311-41, pl 6-11 Jl '25

X-ray determination of minerals. W. J. Mead and C. O. Swanson. Econ Geol 19:486-9 Ag '24

X-ray diffraction measurements upon the pyroxenes. R. W. G. Wyckoff, H. E. Merwin and H: S. Washington. Am J Sci 5th ser 10:383-97 N '25

X-ray diffraction patterns from crystalline and liquid benzene. E. D. Eastman. Am Chem Soc J 46:917-23 Ap '24

X-ray examination of steel castings. I. E. Moultrop and E. W. Norris. il diags Mech Eng 47:391-9 sec 2 My '25; Same. Engineering 120:120-2 Jl 24 '25; Same cond. Power 61:1023-6 Je 30 '25; Abstracts. Iron Tr R 76:1420 My 28 '25; Iron Age 115:1591 My 28 '25; Discussion. Mech Eng 47:657-60 Ag '25

X-ray investigation of certain organic esters and other long-chain compounds. G: Shearer. Chem Soc J 123:3152-6 D '23

X-ray investigation of saturated aliphatic ketones. W: B. Saville and G: Shearer. il Chem Soc J 127:591-8 Mr '25

X-ray investigation of steel castings for advanced steam conditions. F. H. Morehead. il Power 61:520-2 Ap 7 '25

X-ray investigation of the lower members of the fatty acid series. R. E. Gibbs. diags Chem Soc J 125:2622-5 D '24

X-ray spectrographs of rubber samples. Rubber Age 17:205 Je 25 '25

X-ray study of natural and artificial sillimanite. J: T. Norton. il Am Cer Soc J 8: 401-6 Jl '25

X-ray terms and intensities. H. R. Robinson. Philos Mag 6th ser 50:241-50, pl 5 Jl '25

X-rays and atoms. O. Lodge. Engineering 116:597-8 N 9 '23

X-rays and thin films. W: Bragg. Am J Sci 5th ser 10:471-2 N '25

X-rays and X-ray apparatus. J: K. Robertson. 228p Macmillan '24

X-rays for examining walls and floors. il Bldg Age 47:135 Ja '25

See also Crystallography—X ray studies; Radioactivity; Radiography; Radiotherapy; Spectrum, X-ray; X-ray tubes; *also* International congress of radiology

X RAYS—*Continued*

Bibliography

X-rays and metals. O. E. Harder. Gen Elec R 27:456-7 Jl '24

X RAYS in dentistry

Appareil producteur de rayons X portatif. il diags Génie Civil 86:485-7 My 16 '25

Oil immersed X-ray generating outfits and their uses. W. D. Coolidge. il diags Sibley J 39:284-7+, 318-21 Mr-Ap '25; Same. Gen Elec R 28:182-92 Mr '25

XANTHATES

Acceleration of vulcanisation by xanthates and the influence of metallic oxides as promoters. D. F. Twiss and F. Thomas. Soc Chem Ind J 42:499-505 D 28 '23; Abstract. India Rubber W 69:305 F '24

See also Viscose

Analysis

Analysis of xanthate. W. S. Calcott, F. L. English and F. B. Downing. Eng & Min J 118:980-1 D 20 '24

Determination of xanthate in impure solutions. A. F. Hallett and F. Ryder. Eng & Min J 119:690-1 Ap 25 '25

Rapid method of analyzing xanthate. W. Hirschkind. Eng & Min J 119:968-70 Je 13 '25

XANTHYLS

See Dixanthyls

XYLENE

Determination of surface tension with very small volumes of liquid, and the surface tensions of octanes and xylenes at several temperatures. T. W. Richards, C. L. Speyers and E. K. Carver. diag Am Chem Soc J 46:1196-1207 My '24

Distillation et rectification; mélange de benzène, toluène et métaxylène. L. Gay. Chimie & Ind 10:811-28, 1026-42 N-D '23

Extraction of the isomeric xylenes from crude xylol. T. S. Patterson, A. McMillan and R. Somerville. Chem Soc J 125:2488-90 D '24

XYLENOLS

Chloro-*o*-xylenols. L. E. Hinkel, W: T. Collins and E. E: Ayling. Chem Soc J 123: 2968-73 N '23

XYLOSE

Action of highly concentrated hydrochloric acid on cellulose and on some derivatives of glucose and of xylose. E. L. Hirst and D. R. Morrison. Chem Soc J 123:3226-35 D '23

Relations between rotatory power and structure in the sugar group; the rotatory powers of the alpha and beta forms of methyl *d*-xyloside and of methyl *l*-arabinoside. C. S. Hudson. Am Chem Soc J 47:265-8 Ja '25

XYLYLALDEHYDE

Dyestuff prepared from orthoxylylaldehyde. Am Dyestuff Rep 13:31-2 Ja 14 '24

Preparation of dyestuffs from ortho-xylylaldehyde. A: E. Craver. Color Tr J 14:12-14 Ja '24

XYLYLENE bromide

Syntheses in the fatty-aromatic series; homo-*o*-xylylene bromide. J. von Braun and F. Zobel. Chem Soc J 124 pt 1:1199-1202 D '23

Y

YACCA gum

Source of yaccá gum. Chem Age (Lond) 10: 89 Ja 26 '24

YACHT races

British-American cup contest. il Sci Am 131: 92 Ag '24

Six-meter team race. il Sci Am 131:316-17 N '24

YACHTS

Electrically-equipped yacht, Mahceeb. il Electrician 95:17 Jl 3 '25; Elec R (Lond) 97: 62 Jl 10 '25

Sailing and motor craft; the scientific aspects of their design. H. W. Hutchinson. diag plans Engineering 120:495-8 O 16 '25

Twin-screw motor yacht Sea King. il diags plan (supp) Engineer 137:246-8, 256 Mr 7 '24

Wind, sail and sea. J. B. Walker. il Sci Am 133:152-3 S '25

See also Carnegie (yacht); Motor boats

YAJEINE

Yajeine—a new alkaloid. A. M. B. Villalba. il Soc Chem Ind J 44:205-7 My 1 '25

YALE and Towne manufacturing company

Library

Yale and Towne manufacturing co. E. F. Peck. Special Lib 16:275-6 O '25

YARDMASTERS. See Railroads—Yardmasters

YARN

Degree of irregularity in 2-ply woollen yarns. H. M. Williams. Textile Inst J 16:T311-14 O '25

Firth-Smith bunchless automatic cleaner. il Textile World 68:2499 O 24 '25

Manufacture of textile fabrics; fibres to yarns. A. B. Shearer. Textile Inst J 15: P287-91 Ag '24

Process for the treatment of yarns. Am Dyestuff Rep 14:137 F 23 '25

Processes in the spinning of worsted yarns. J. H. C. Hodgson. Textile Inst J 15:P429-35; Discussion. P435-7 S '24

Ratio of yarn size to fabric weight. R. Presgrave. il diags Textile World 68:1035+ Ag 22 '25

Reeling of yarn. Textile World 67:3289+ My 16 '25

Variations in yarn structure. Textile World 68: 2807+ N 7 '25

Yarn dyeing apparatus; Thomayer patent. diags Chemicals (Dyestuffs sec) 17:37 Ag 17 '25

See also Cotton yarn; Singeing of textiles; Worsted

Inspection

Inspecting ply yarns in the skein. diags Textile World 64:825+, 3581+; 65:229 Ag 11, D 15 '23, Ja 12 '24

Tables, calculations, etc.

Denier system for silk and artificial silk yarns —table of cotton, wool, and worsted equivalents. E. D. Fowle. Textile World 67:457+ Ja 24 '25

Testing

Dynamical theory of the pendulum yarn testing machine. S. A. Shorter and W. J. Hall. diag Textile Inst J 14:T501-7 D '23

Experimental examination of the hank test and a comparison with the single thread tensile test for worsted and woollen yarns. W. J. Hall. Textile Inst J 16:T223-32 Jl '25

Instrument for the ballistic measurement of tenacity. W: S. Denham and W: Brash. diags Textile Inst J 15:T291-304 My '24

Investigation of the nature of the elasticity of fibres. S. A. Shorter. bibliog il diags Textile Inst J 15:T207-29 Ap '24

New autographic testing machine for yarns and fibres. S. A. Shorter and W. J. Hall. il Textile Inst J 14:T493-500 D '23

Rejto method of textile testing. J. Bercsi. diags Textile World 67:2859+ Ap 25 '25

Significance of stress-strain curves of yarns and their application in testing. G. F. New and A. L. Gregson. Textile Inst J 14:T447-64 N '23

Wearing tests for yarns and some observations on reeds. G. F. New. il Textile Inst J 15:T230-6 Ap '24

See also Cotton yarn—Testing

YARN printing. See Textile printing

YEARBOOKS (statistical, historical, etc.)

Japan year book, 1924-25. Y. Takenobu. 270p Dixie book shop, 40 Greenwich st., New York '24

Municipal index, 1925. 521p American City Magazine, 443 4th av., New York '25

YEARBOOKS (statistical, historical, etc.) —*Continued*
Norway year book. S. C. Hammer. 492p Sverre Mortensen Bokhandel, Christiania '23

See also Corporations—Reports and yearbooks

Bibliography

Classified guide to 1700 annuals, directories, calendars and year books. H. G. T. Cannons, comp. 196p H. W. Wilson co. '23

YEAST
Antineuritic yeast concentrates; abstract. H. W. Kinnersley and R. A. Peters. Soc Chem Ind J (Chem & Ind) 44:531-2 My 22 '25
Effect of ammonium chloride upon the growth of yeast and the hydration of gluten in beer wort. E. I. Fulmer, F. F. Sherwood and V. E. Nelson. Ind & Eng Chem 16:921 S '24
Effect of calcium sulfate on the growth and fermentation of yeast. O. W. Richards. Am Chem Soc J 47:1671-6 Je '25
Fixation of atmospheric nitrogen by yeast as a function of the hydrogen ion concentration. E. I. Fulmer and L. M. Christensen. J Phys Chem 29:1415-18 N '25
Further developments in the study of Wildiers' bios. W. L. Miller and others. Can Chem & Met 8:57-8 Mr '24
Gallotannin; the action of yeast on gallotannin. M. Nierenstein, C. W. Spiers and A. C. Hadley. Am Chem Soc J 47:1726-8 Je '25
Influence of certain chemicals on the rate of reproduction of yeast in wort. N. A. Clark. J Phys Chem 28:221-31 Mr '24
Isolation from autolyzed yeast of a crystalline substance melting at 223°, having the properties of a bios. W. H. Eddy, R. W. Kerr and R. R. Williams. il Am Chem Soc J 46:2846-55 D '24
Microscopic vegetable growing. R. Howard. il Sci Am 131:322-3 N '24
Some uses of brewery by-products. A. L. Davidson. Can Chem & Met 8:233-4 O '24

See also Bios; Fermentation

Bibliography

Les industries de la levure. C: Schweizer. Chimie & Ind 12:623-37 O '24

YEASTS
Études sur les levures du lambic. H. Kufferath. bibliog diags Chimie & Ind 13:890-900 Je '25

YELLOW
Grünhagen patents on acridine dyestuffs. Color Tr J 15:107-8 O '24
Manufacture of new yellow vat dyestuff. Color Tr J 14:14 Ja '24
New insoluble azo dyes for preparation of color lakes and direct development on the fiber. Color Tr J 15:167-70 D '24
New pyrazolone diazo dyes. Color Tr J 15: 108-9 O '24
New pyrazolone dyestuffs. Color Tr J 15:129; 16:7 N '24, Ja '25
Yellow dyestuffs; tables. Soc Dyers & Col J 41:131 Ap '25

See also Chloramine yellow; Lead chromate

YELLOW cab manufacturing company
General Motors announces plan for merger with Yellow cab co. Automotive Ind 53:71+ Jl 9 '25
Official statement to the New York stock exchange. Comm & Fin Chr 118:1802-5 Ap 12 '24

YELLOW river
Turning the Yellow river back into its channel. il maps Eng N 92:224-7 F 7 '24

YELLOW truck and coach manufacturing company
Personnel of motor merger announced. Elec Ry J 66:112-13 Jl 18 '25

YMUIDEN, Holland
La grande écluse d'Ymuiden, sur le canal d'Amsterdam à la mer du Nord. A. Bijls. il diags plans Génie Civil 87:141-8 Ag 15 '25

YOHIMBINE
Yohimbine (quebrachine): esterification of yohimbic acid. E. Field. Chem Soc J 123: 3003-6 N '23

YOKOHAMA, Japan

Harbor

Rapid strides made in Yokohama port reconstruction. K. Koyanagi. il diags Eng N 93: 552-4 O 2 '24

YORK gas company
York gas company's centenary celebrations. il Gas J (Lond) 166:31-6 Ap 2 '24

YORKTOWN, Virginia
Yorktown battlefield becomes an international shrine. D. P. Polk. Manuf Rec 88:79 O 8 '25

YOUNG, Herbert William, 1875-
Portrait. Elec W 82:1254 D 22 '23

YOUNG, Howard I.
Mine managers of note. por Eng & Min J 118:406 S 13 '24

YOUNG, Owen D., 1874-
New vision of business and executive responsibility; tribute to Owen D. Young. H. Hoover. Chem & Met Eng 31:958-9 D 22 '24
Owen D. Young receives high honors from representative business men. Am Mach 61: 980a-b D 18 '24
A paymaster of reparations. E. L. James. por Am Bankers Assn J 16:707-9 My '24
Sketch. por N E L A Bul 11:743-4 D '24

YOUNG men's Christian association
Bowery Y.M.C.A. collects 94 per cent of its loans to derelicts. A. O'Neill. Ptr Ink 130: 61-2+ F 12 '25
Leisure of the young worker. Int Labour R 9: 829-44 Je '24
Overlooked opportunities in the big institutional field. il Sales Management 9:505-6+ O 17 '25
What the Y.M.C.A. is doing for merchant seamen. il Marine Eng 29:207-8+ Ap '24

Railroad department

Railroad Y.M.C.A. and railroads in Chicago. Ry Age 78:306-7 Ja 31 '25
Results of the Railroad younger men's conference of the Y.M.C.A. Ry Age 77:739-40 O 25 '24
Second annual international younger men's conference, Detroit, Michigan, Nov. 14-17. Ry Age 77:940-5 N 22 '24; Ry R 75:883-4 N 29 '24
16th international conference, St Louis, Mo., Nov. 15-18. Ry Age 75:951-7 N 24 '23; Ry R 73:760-1 N 24 '23

YOUNG men's Christian association buildings
Y.M.C.A. community building and fire station, Westport, Conn. W: B. Tubby. il plans Am Arch 126:142,pl 49-52 Ag 13 '24

YOUNG women's Christian association buildings
Y.W.C.A. boarding residence, Bridgeport, Conn.; views and plans. Am Arch 126:pl 113-15 O 8 '24

YOUNG'S modulus
Relations between Young's modulus and other physical quantities. J. P. Andrews. Philos Mag 6th ser 50:665-74 O '25
Variation of Young's modulus with temperature from vibration measurements. A. L. Kimball, jr. and D. E. Lovell. diag Phys R 26:121-4 Jl '25

YOUNGSTOWN, Ohio

Rapid transit

Abandonment authorized of service from Youngstown to Girard, Niles and Warren. Elec Ry J 62:1069 D 22 '23
Buses carry one-quarter total number of passengers in Youngstown. il map Elec Ry J 63:1007-10 Je 28 '24
Jitneys lose in Youngstown. Aera 12:2065-6 Jl '24
Youngstown lost $198,678 in 1923. Elec Ry J 63:483 Mr 22 '24
Youngstown operates at profit. Elec Ry J 65: 318 F 21 '25

YOUNGSTOWN sheet and tube company
Youngstown sheet and tube co. handles gasoline as a convenience to employes. V. B. Guthrie. Nat Pet N 17:23-4 Je 17 '25

YTTRIUM
Solubility of yttrium salts. M. C. Crew, H. E. Steinert and B. S. Hopkins. J Phys Chem 29:34-8 Ja '25

YTTRIUM earths
Twenty-five years of research on the yttrium earths. G. Urbain. Chem R 1:143-83; Bibliography. 184-5 Jl '24

YTTRIUM hydroxide
Electrometric studies of the precipitation of hydroxides; precipitation in the cerite group of rare earths and of yttrium hydroxide by use of the hydrogen electrode. H. T. S. Britton. Chem Soc J 127:2142-7 S '25

UGOSLAVIA. See Jugoslavia

Z

ZAMBESIA

Industries and resources

Les richesses charbonnières du Zambèze. A. E. Gérard. map Soc Ing Civils Bul 77:244-61, pl 68 Ap '24

ZEEMAN, Pieter
Presentation of the Franklin medal and certificate of honorary membership to Dr Pieter Zeeman and Dr Elihu Thomson. por J Fr Inst 200:365-9 S '25

ZEEMAN effect
Fine structure, absorption, and Zeeman effect of the 2536 mercury line. R. W. Wood. diags Philos Mag 6th ser 50:761-74, pl 24 O '25
Magnetization of spectrum lines; reminiscences and prospects. P. Zeeman. J Fr Inst 200:305-11 S '25
Polarization of resonance radiation. G. Breit. diags Philos Mag 6th ser 47:832-42 My '24
Radiating atoms in magnetic fields. P. Zeeman. il J Fr Inst 199:585-96 My '25
Significance of spectroscopic magneton numbers. E. C. Stoner. Philos Mag 6th ser 49: 1289-1309 Je '25
Sommerfeld's and Lande's rules for classification of terms and Zeeman patterns in spectra. W. M. Hicks. Philos Mag 6th ser 48: 1036-48 D '24
Spectrophotometry of the Zeeman effect in very weak magnetic fields. W. Mohammad. Philos Mag 6th ser 48:586-92 S '24

ZEOLITES
Characteristic properties of zeolites for water softening. S. B. Applebaum. Am Water Works Assn J 13:213-20; Discussion. 226-31 F '25
Chemical exchange reactions of a zeolite. C. J. Frankforter and F. W. Jensen. Ind & Eng Chem 16:621-4 Je '24
Early history of zeolites. A. S. Behrman. Am Water Works Assn J 13:221-5; Discussion. 226-31 F '25
Preparation of artificial zeolites. P. Eymael. Am Cer Soc J 7 (Cer A 3):135-6 My '24

ZEPPELIN airships. See Airships, Rigid

ZERO sum
Adjustment of observations. N. Campbell. Philos Mag 6th ser 47:816-26 My '24

ZINC
Activities of zinc, cadmium, tin, lead and bismuth in their binary liquid mixtures. N. W. Taylor. diags Am Chem Soc J 45:2865-90 D '23
Construction details for zinc cornices. diags Eng & Contr (Bldgs) 63:431-3 F 25 '25
Development of zinc. S. S. Tuthill. Metal Ind 22:2-3 Ja '24
Entropies of the vapors of zinc and lead. W. H. Rodebush and A. L. Dixon. Am Chem Soc J 47:1036-43 Ap '25
First use of metals; iron, lead, and zinc. T. A. Rickard. Eng & Min J 117:759-62 My 10 '24
How metals stand up against corrosion. Chem & Met Eng 31:78-9 Jl 14 '24; Same. Brass W 20:312-13 S '24
Hydrogen in zinc cathodes. O. C. Ralston. il Am Electrochem Soc Trans v 47 (preprint 5):53-8 Ap '25
Hydrogen overvoltage of zinc. G: M. Westrip. Chem Soc J 125:1112-21 My '24
Investigation of the alleged allotropy of zinc by X-ray analysis and a redetermination of the zinc lattice. W. M. Peirce, E. A. Anderson and P. Van Dyck. bibliog J Fr Inst 200:349-61 S '25
Market outlets of zinc; a diagram showing the many industries which now consume zinc and its derivatives. Eng & Min J 117:1071 Je 28 '24; Same. Ind & Eng Chem 16:710 Jl '24
Metals in 1924—outlook for 1925. S. S. Tuthill. Metal Ind 23:5-6 Ja '25
Nickel plating of zinc and zinc-base die castings. M. R. Thompson. bibliog Am Electrochem Soc Trans v 47 (Preprint 9):103-25 Ap '25
Optical constants of magnesium and zinc crystals. M. E. Graber. il diag Phys R 26:380-9 S '25
Partition of silver between lead and zinc. W. A. Naish. il diag Brass W 21:309-13 S '25
Sheet zinc for factory and residence. il Sheet Metal Worker 16:611+ S 25 '25
Static potentials of copper in solutions of copper cyanide in sodium cyanide and in potassium cyanide, and of zinc in solutions of zinc cyanide in sodium cyanide. W. M. Walker, J. H. Sorrels and J. M. Breckenridge. Am Electrochem Soc Trans v 48 (preprint 12): 113-24 S '25
Thermo-electric effect in single crystal zinc wires. E. G. Linder. diag Phys R 26:486-90 O '25
Use of amalgamated zinc in the evolution method for the estimation of sulphur in iron and steel. T. Ashida. diag Chem Soc J 125:665-8 Mr '24
Vacuum grating spectrograph and the zinc spectrum. R. W. Wood. Philos Mag 6th ser 46:741-50, pl 11 N '23
Will zinc stop corrosion? J. H. Kaylor. Power 60:777 N 11 '24
Zinc-clad, English type store front. il diag Sheet Metal Worker 15:858 D 5 '24

See also Galvanizing; Zinc metallurgy

Analysis

Assay of zinc ores; use of powdered magnesium for removing copper and lead. E. G. R. Ardagh and G. R. Bongard. Ind & Eng Chem 16:300-1 Mr '24
Determination of cadmium in spelter and zinc ores. C. E. Barrs. Soc Chem Ind J 43: 77-8 Mr 28 '24
Determination of small amounts of zinc in materials of organic nature; a microchemical method based on the fluorescence of zinc salts with urobilin. R. E. Lutz. J Ind Hygiene 7:273-90 [bibliog. p. 289-90] Je '25
Method of analysis of zinc dust. Color Tr J 14: 68 F '24
Recovery of small amounts of zinc from biologic material ashed by the incineration process. P. K. Thompson. J Ind Hygiene 7:358-70 [bibliog. p. 369-70] Ag '25
Simplification of the separation of zinc from iron and aluminium. E. G. R. Ardagh and G. R. Bongard. bibliog Ind & Eng Chem 16: 297-9 Mr '24

Price quotations

Price quotations for zinc and lead. Eng & Min J 119:931-2; 120:181-2 Je 6, Ag 1 '25

ZINC alkylxanthates
Acceleration of vulcanisation by xanthates and the influence of metallic oxides as promoters. D. F. Twiss and F. Thomas. Soc Chem Ind J 42:499-505 D 28 '23

ZINC alloys
Copper-zinc alloys which expand on solidification; abstract with discussion. K. Iokibe. Engineer 137:303-4 Mr 21 '24; Engineering 117:359-60 Mr 21 '24

ZINC alloys—*Continued*
Growth in zinc base die castings. W. G. Johnson. Metal Ind 23:322-3, 362-3 Ag-S '25
List of alloys. W: Campbell. Metal Ind 23: 184-5 My '25
X-ray analysis of copper-zinc, silver-zinc, and gold-zinc alloys. A. Westgren and G. Phragmén. Philos Mag 6th ser 50:311-41, pl 6-11 Jl '25
Zinc-cadmium alloy solders; abstracts with discussion. R. B. Deeley. Engineering 120: 299 S 4 '25; Engineer 140:245 S 4 '25

See also Zinc-mercury alloys

ZINC blende. See Sphalerite

ZINC carbonate

See Smithsonite

ZINC chloride
Antiseptic action of the zinc chloride salt of aniline. J. W. Howard and F. D. Stimpert. Am Chem Soc J 45:3106-8 D '23
Better penetration with zinc chloride. Eng & Contr (Ry) 62:616 S 17 '24
Equilibrium in the systems: zinc chloride-pyridine; and cadmium chloride-pyridine. R. B. Mason and J. H. Mathews. J Phys Chem 29:1178-83 S '25
New catalytic effects of zinc chloride and aluminium chloride. J. F. Norris. Ind & Eng Chem 16:184 F '24
New wood treating process. A. M. Howald. il Ry R 76:304-10 F 14 '25; Excerpts. Eng & Contr (G C) 63:819-22 Ap 17 '25
New zinc chloride process for the treatment of timber. Ry R 75:663 N 1 '24
Tentative methods of chemical analysis of zinc chloride. Am Soc T M Pro 24 pt 1:995-8 '24
Value of zinc treatment of wood. Elec W 85:1402-3 Je 27 '25
Zinc chloride by direct combination. Chem Age 32:153 Mr '24
Zinc chloride treatment for car timber and as tie preservative. H. von Schrenk. Ry R 74:169-70, 181-2 Ja 26 '24; Same cond. Eng N 92:891 My 22 '24

ZINC compounds
Acceleration of vulcanization; influence of the acetone-soluble constituents of rubber on the physical and chemical properties of accelerated rubber stocks. L. B. Sebrell and W. W. Vogt. Ind & Eng Chem 16:792-6 Ag '24

ZINC diethyl
Germanium; germanium tetra-ethyl—preparation and purification of zinc diethyl—analysis by combustion of a liquid containing carbon and hydrogen. L. M. Dennis and F. E. Hance. diags Am Chem Soc J 47:370-7 F '25

ZINC dust. See Zinc

ZINC ferrocyanide
Zinc ferrocyanide as a mordant. S. F. Carter. Am Dyestuff Rep 14:80-2 F 9 '25

ZINC industry and trade
Increasing world production of zinc. Econ W n s 28:806-7 D 6 '24
Outlook for zinc. E. N. Hickman. Eng & Min J 119:140-1 Ja 17 '25
Prospect for spelter. Iron Age 116:839 S 24 '25
World production of lead and zinc in 1924. Econ W n s 29:159 Ja 31 '25
World production of zinc in the first half of 1925. Econ W n s 30:340 S 5 '25
World survey of the zinc industry. U S Bur For & Dom Com Trade Information Bul 246: 1-60 '24
World zinc as of January 25. A. J. M. Sharpe. Brass W 21:107-8 Mr '25
World's zinc stocks reach minimum. A. J. M. Sharpe. Eng & Min J 120:679 O 24 '25
Zinc output supremacy of U.S. expected to continue. Oil Paint & Drug Rep 106:29 Ag 4 '24

See also American zinc institute

Missouri

Retains top in lead and zinc. W: J. Nolle. Iron Tr R 75:supl1 Ag 21 '24

United States

Anaconda strengthens position in western zinc industry. A. B. Parsons. il Eng & Min J 118:946-7 D 13 '24
Balance sheets for mine and smelter production of domestic copper, lead, and zinc. C. E. Siebenthal. Econ Geol 20:83-96 Ja '25
Increased prosperity for the zinc industry. Eng & Min J 118:899 D 6 '24
Lead and zinc in 1924. Min Cong J 11:64+ F '25
Lead and zinc production in 1923. Comm & Fin Chr 118:23-4 Ja 5 '24; Same abr. Min Cong J 10:82 F '24; Abstract. Iron Age 113: 283 Ja 24 '24
Mutual confidence needed to solve zinc industries' internal problems. S. S. Tuthill. Eng & Min J 120:388 S 5 '25
Romances of industry—zinc. J: W. Harrington. il Am Ind 24:27-31 N '23
Zinc in 1924. Brass W 21:107, 142 Mr-Ap '25
Zinc; marketing and statistics, 1923. Eng & Min J 117:135 Ja 19 '24
Zinc mining in 1923. A. Thacher. Eng & Min J 117:85 Ja 19 '24
Zinc ore mining in 1924. A. Thacher. Eng & Min J 119:84-5 Ja 17 '25
Zinc produced in the United States in 1923. Iron Tr R 75:1231 N 6 '24
Zinc statistics for October. Comm & Fin Chr 119:2470 N 29 '24 [continued monthly]

ZINC institute, American. See American zinc institute

ZINC-mercury alloys
Corrosion resistance of electroplated coatings of zinc and zinc-mercury alloys. C. J. Wernlund. Am Electrochem Soc Trans v 45 (preprint 31):403-9 Ap '24; Same. Brass W 21:195-6 Je '25

ZINC metallurgy
Briquetting of zinc ores. B. M. O'Harra. il diags Mo U Sch Mines & Met tech ser 7:1-67 Ag '24; Abstract. Eng & Min J 120:90 Jl 18 '25
Concentration of lead-zinc ores of eastern Canada. C. S. Parsons. Can Chem & Met 9: 89-92 Ap '25
Depletion of lead supply. Brass W 20:104 Mr '24
Experiments on the distillation of zinc from complex zinc-lead-silver ores. B. M. O'Harra and E. S. Wheeler. il diag Mo U Sch Mines & Met Bul tech ser 6:1-44 Ag '23
Extraction of zinc from sulphide ores. Eng & Min J 120:142 Jl 25 '25
Metallurgical treatment of zinc-retort residues. B. M. O'Harra. U S Bur Mines Tech Pa 341:1-25 [bibliog. p. 22-5] '25
Mining zinc at Mascot. A. H. Hubbell. flow sheets. il Eng & Min J 118:407-18 S 13 '24
Oxidation of zinc vapor by carbon dioxide. B. M. O'Harra. diags U S Bur Mines Tech Pa 336:1-22 '24
Progress in hydrometallurgy of lead-zinc ores. A. B. Parsons. flow sheets il Eng & Min J 119:55-61 Ja 10 '25
Proposed type of ore-roasting furnace; intended for dead roasting zinc blende. D. M. Kerr. diags Eng & Min J 118:954-5 D 13 '24
Reduction of zinc oxide by carbon. G. A. Zeller and B. M. O'Harra. il diag Mo U Sch Mines & Met tech ser 8:1-32 N '24
Selective flotation at Timber Butte. E: H. Robie. flow sheet il Eng & Min J 120:685-9 O 31 '25
Sintering zinc ores. B. F. Buff. flow sheet il Eng & Min J 120:211-15 Ag 8 '25

By-products

New plant for making acid from zinc concentrates at Broken Hill. Eng & Min J 120: 218 Ag 8 '25

Electrometallurgy

Combining the retort process with electric smelting of zinc ores. E. W. Hale. Eng & Min J 118:375-7 S 6 '24
Complex lead-zinc ores to be treated by chlorination and electrolysis. J. G. Potter. Eng & Min J 117:646 Ap 19 '24

ZINC metallurgy—Electrometallurgy—*Cont.*
Electrical equipment of the Consolidated mining and smelting company's zinc plant, Trail, B.C., Canada. R. N. Lockyer. il diags plans Am Inst E E J 43:531-44 Je '24
Electrodeposition of zinc. A. L. Marshall. Elec R (Lond) 97:130 Jl 24 '25
Electrolysis of ammoniacal zinc carbonate solutions. T: P. Campbell. flow sheet Am Electrochem Soc Trans v 46 (preprint 1):1-8, pl 1-6 O '24
Electrothermic zinc reduction. W. M. Johnson. Eng & Min J 117:534-5 Mr 29 '24
L'industrie électrothermique du zinc. Génie Civil 87:358-9 O 24 '25

ZINC mines and mining
Business side of Black Jack zinc mining. W. R. Wade. Eng & Min J 119:72-3 Ja 10 '25
World's greatest zinc-mining field. J. D. Conover. il map Min Cong J 10:408-11 S '24

New Jersey
Ore deposition at Franklin Furnace, New Jersey. J. E. Spurr and J. V. Lewis. il diags map plan Eng & Min J 119:317-28 F 21 '25
See also New Jersey zinc company

Oklahoma-Kansas district
Has the Miami-Picher district passed the zenith? K: L. Koelker. map Eng & Min J 117:168-70 Ja 26 '24

Tennessee
Mining zinc at Mascot. A. H. Hubbell. flow sheets il Eng & Min J 118:407-18 S 13 '24
Zinc deposits of east Tennessee. M. H. Secrist. 165p Tennessee geol. survey, Nashville '24

ZINC ores
Lead and zinc ores of Pennsylvania. B: L. Miller. 91p [bibliog. p. 20-1, 44-6, 84-5] Penn. Dept. of forests and waters, Harrisburg '24
Ore deposition at Franklin Furnace, New Jersey. J. E. Spurr and J. V. Lewis. il diags map plan Eng & Min J 119:317-28 F 21 '25
Ore injection at Edwards, New York. J. E. Spurr. il diags map plan Eng & Min J 117: 684-9 Ap 26 '24
Upper Mississippi lead and zinc ores. J. E. Spurr. map Eng & Min J 117:246-50, 287-92 F 9-16 '24

ZINC oxide
Chemical and material markets in 1923. Chem & Met Eng 30:106 Ja 21 '24
Dehydrogenation and dehydration of alcohols over a zinc oxide catalyst. W. A. Lazier and H. Adkins. Am Chem Soc J 47:1719-22 Je '25
Rapid method to distinguish zinc oxide and lithopone pastes. E: O. Dunkley. Ind & Eng Chem 17:890 S '25
Reduction of zinc oxide by carbon. G. A. Zeller and B. M. O'Harra. il diag Mo U Sch Mines & Met tech ser 8:1-32 N '24

ZINC plating
Brittleness of zinc plated steel. H. Sutton. Brass W 21:159-60, 235-6 My, Jl '25
Corrosion resistance of electroplated coatings of zinc and zinc-mercury alloys. C. J. Wernlund. Am Electrochem Soc Trans v 45 (preprint 31):403-9 Ap '24; Same. Brass W 21: 195-6 Je '25
Do pure zinc anodes pay? O. W. Storey. Brass W 20:228-9 Jl '24
Das neuverzinken. H. Bablik. diag Stahl & Eisen 44:223-5 F 28 '24
See also Galvanizing

Testing
Intermittent immersion test as an aid in evaluating zinc coats plated on iron and steel. F. F. Farnsworth and C. D. Hocker. il diag Am Electrochem Soc Trans v 45 (preprint 14):189-201 Ap '24
New dip test for zinc coated ferrous articles. C. J. Wernlund. Metal Ind 23:13-14 Ja '25
Preece test for zinc coated materials. W. M. Peirce. il Iron Age 114:199-201 Jl 24 '24; Abstract. Brass W 20:283-5 Ag '24

ZINC poisoning
Contamination of beverages and other food with zinc. J. W. Sale and C. H. Badger. Ind & Eng Chem 16:164 F '24

ZINC roofing. See Roofing, Zinc

ZINC silicate
Colors in a zinc silicate glaze. H. M. Kraner. il Am Cer Soc J 7:868-77 D '24

ZINC sulfate
System zinc sulphate—water. C: R. Bury. Chem Soc J 125:2538-41 D '24

ZINCOGRAPHY
Drawing for zinc etching. R. Matasek. 64p Bruce pub. co., Milwaukee, Wis. '25

ZIPPEITE
New and known minerals from the Utah-Colorado carnotite region. F. L. Hess. il U S Geol S Bul 750—D:70-3 '24

ZIRCON
Recovering zircon from a zirconiferous pegmatite. R. C. Gosreau. flow sheet il Eng & Min J 119:405-6 Mr 7 '25
Zircon as an opacifier. Chem Age 32:394-5 S '24

ZIRCONIA
Density of the oxides of zirconium and hafnium. G: Hevesy and V. Berglund. Chem Soc J 125:2372-5 N '24
Effect of zirconia in enamels for sheet steel. H. G. Wolfram. diag Am Cer Soc J 7:1-13 Ja '24

ZIRCONIUM
Atomic weight of zirconium. F. P. Venable and J. M. Bell. Am Chem Soc J 46:1833-4 Ag '24
Effect of zirconium on high-sulphur steel. Chem & Met Eng 31:592-3 O 13 '24
Florida's rare minerals won the world war. G: M. Chapin. il Manuf Rec 85:73-7 F 21 '24
Hafnium content of zirconium ores. G: Hevesy and V. T. Jantzen. Chem Soc J 123: 3218-23 D '23
Marketing of rare metals and minerals. H. C. Meyer. Eng & Min J 118:287-8 Ag 23 '24
Refining metals electrically; zirconium in steel. L. J. Barton. Foundry 53:329-31 Ap 15 '25
Separation of aluminum, beryllium and zirconium from their ores. L: Burgess. Am Electrochem Soc Trans v 47 (preprint 15):173-80 Ap '25
Technology of zirconium and its compounds. F: C. Nonamaker. Chem & Met Eng 31: 151-5 Jl 28 '24; Discussion. 31:315-16 Ag 25 '24

Analysis
Density of the oxides of zirconium and hafnium. G: Hevesy and V. Berglund. Chem Soc J 125:2372-5 N '24
Zirconium. J. W. Marden. U S Bur Mines Bul 212:301-18; Bibliography. 318-20 '23

ZIRCONIUM compounds
Researches on residual affinity and coordination; interactions of zirconium salts and β-diketones. G. T. Morgan and A. R. Bowen. Chem Soc J 125:1252-61 Je '24

ZIRCONIUM oxide. See Zirconia

ZIRCONIUM phosphate
Solubilities of the phosphates of zirconium and hafnium. G: Hevesy and K. Kimura. Am Chem Soc J 47:2540-4 O '25

ZIRCONIUM silicate. See Zircon

ZONE system. See City planning—Zone system

ZUIDER Zee
Zuider Zee scheme. O. C. A. van Lidth de Jeude. Engineer 137:344-5 Mr 28 '24

ZWINK, Adalbert
Wood carving in ecclesiastical architecture. il Am Arch 126:619-22 D 31 '24

UNIVERSITY OF ILLINOIS-URBANA
605IND C003
THE INDUSTRIAL ARTS INDEX$NY
13 1925
3 0112 007618637